

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101719\
 Data File : BG043266.D
 Acq On : 17 Oct 2019 17:43
 Operator : JU
 Sample : K5350-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Manual Integrations
 APPROVED

mohammad
 10/20/2019 8:12:10 PM

Quant Time: Oct 18 12:11:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 09 01:11:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	53904	20.00	ng	-0.02
21) Naphthalene-d8	10.85	136	214539	20.00	ng	-0.02
39) Acenaphthene-d10	14.67	164	156338	20.00	ng	-0.02
64) Phenanthrene-d10	17.42	188	332838	20.00	ng	0.00
76) Chrysene-d12	21.69	240	368360	20.00	ng	0.00
87) Perylene-d12	24.91	264	436826	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	342700	113.46	ng	-0.02
7) Phenol-d6	7.22	99	507515	116.68	ng	-0.02
23) Nitrobenzene-d5	9.20	82	323001	73.18	ng	-0.02
42) 2,4,6-Tribromophenol	16.16	330	298281	110.95	ng	0.00
45) 2-Fluorobiphenyl	13.29	172	796581	73.87	ng	-0.02
79) Terphenyl-d14	20.02	244	1329611	76.92	ng	0.00
Target Compounds						
31) Naphthalene	10.90	128	3155333	298.773	ng	Qvalue # 91
37) 2-Methylnaphthalene	12.50	142	975371	121.064	ng	97
38) 1-Methylnaphthalene	12.72	142	750127	98.397	ng	99
46) 1,1'-Biphenyl	13.50	154	544254	45.906	ng	99
49) Acenaphthylene	14.39	152	92158	6.776	ng	# 83
50) Dimethylphthalate	14.11	163	102261	8.730	ng	# 97
52) Acenaphthene	14.74	154	1201414	131.965	ng	97
55) Dibenzofuran	15.07	168	2245284	166.719	ng	# 91
58) Fluorene	15.73	166	2531775m	220.194	ng	
71) Phenanthrene	17.49	178	6276649	386.273	ng	# 42
72) Anthracene	17.59	178	7667082	472.639	ng	# 19
73) Carbazole	17.84	167	3812768	253.459	ng	# 81
75) Fluoranthene	19.48	202	3935105	183.091	ng	79
78) Pyrene	19.84	202	3242292m	147.471	ng	
81) Benzo(a)anthracene	21.67	228	1599895	69.706	ng	96
83) Chrysene	21.74	228	1703104	76.463	ng	95
86) Indeno(1,2,3-cd)pyrene	28.58	276	407892	14.710	ng	# 98
88) Benzo(b)fluoranthene	23.90	252	1157410	46.827	ng	98
89) Benzo(k)fluoranthene	23.95	252	398056m	16.279	ng	
90) Benzo(a)pyrene	24.76	252	836311	35.863	ng	100
91) Dibenzo(a,h)anthracene	28.61	278	120462	5.038	ng	96
92) Benzo(g,h,i)perylene	29.72	276	338343	14.603	ng	98

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

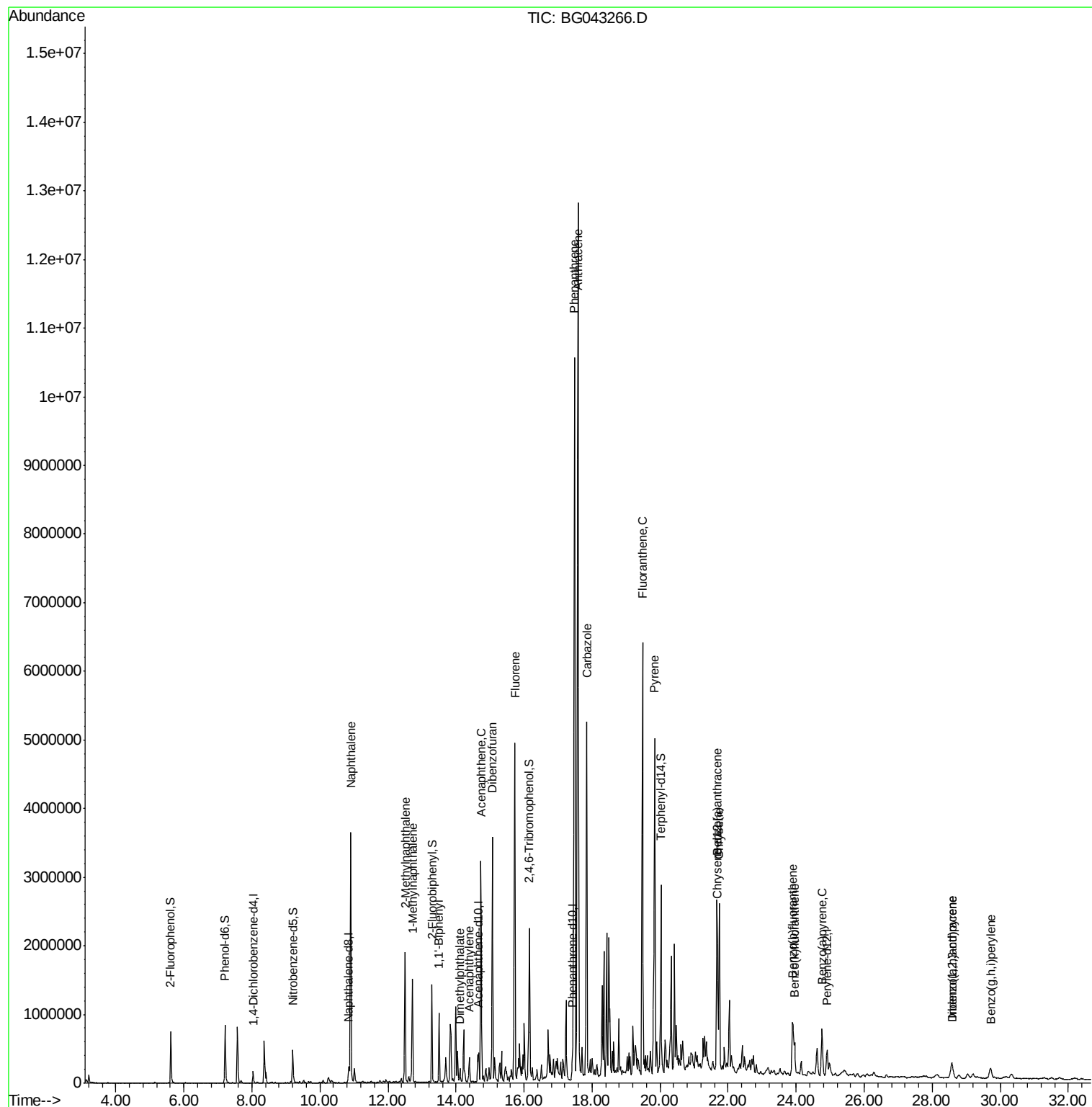
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG101719\
Data File : BG043266.D
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Misc :
ALS Vial : 4 Sample Multiplier: 1

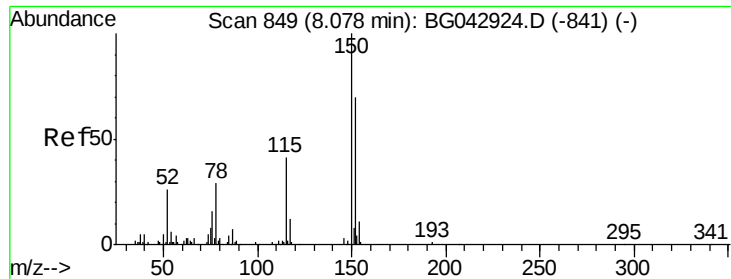
Instrument :
BNA_G
ClientSampleId :
VNJ-209

Quant Time: Oct 18 12:11:20 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 09 01:11:45 2019
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#1

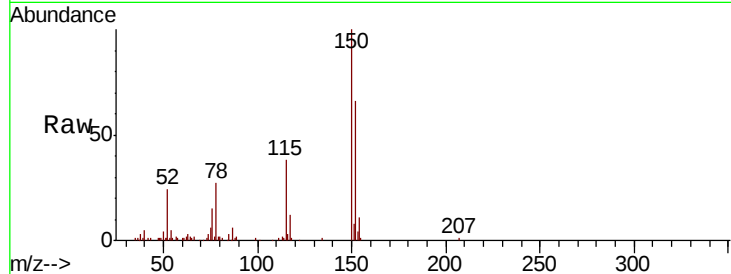
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.04 min Scan# 842
Delta R.T. -0.02 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.1	115.0	172.4
115	57.1	47.0	70.6

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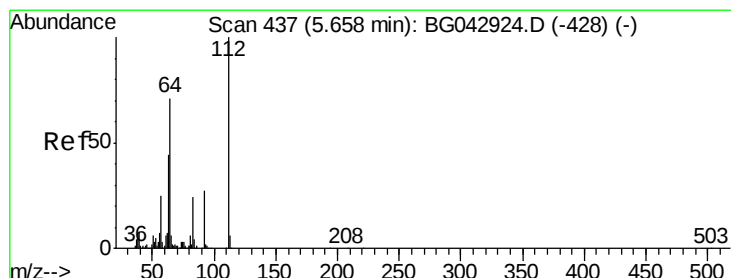
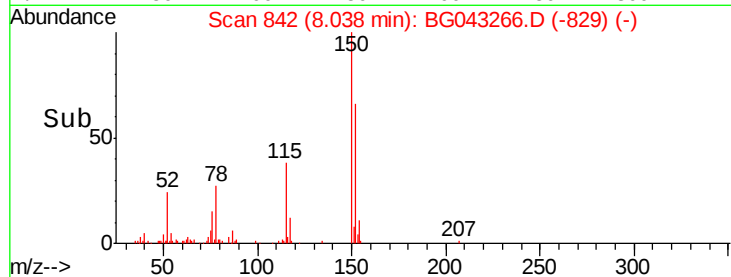
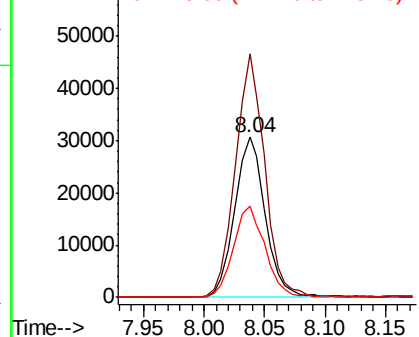


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

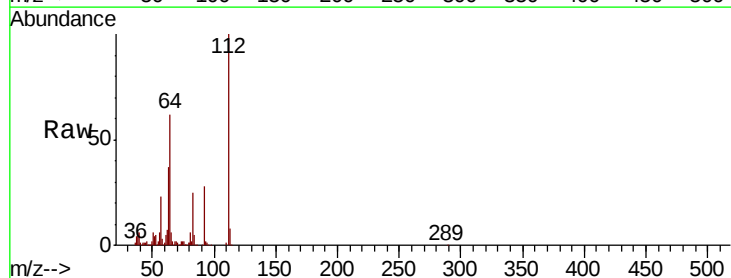
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 113.459 ng
RT: 5.62 min Scan# 430
Delta R.T. -0.02 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.7	56.6	84.8
63	36.9	35.1	52.7

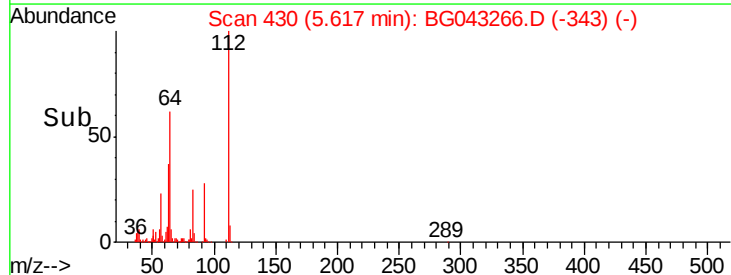
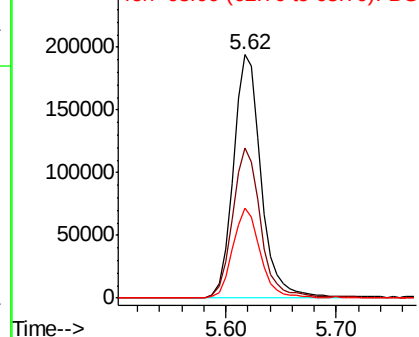


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 116.679 ng

RT: 7.22 min Scan# 702

Delta R.T. -0.02 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

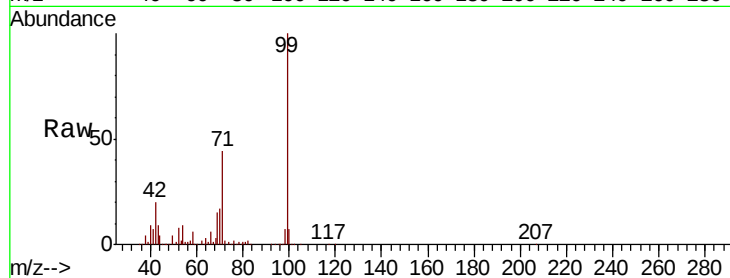
ClientSampled :

VNJ-209

Tot Ion:	99	Resp:	507515
Ion Ratio	Lower	Upper	
99	100		
42	20.1	17.2	25.8
71	44.5	33.1	49.7

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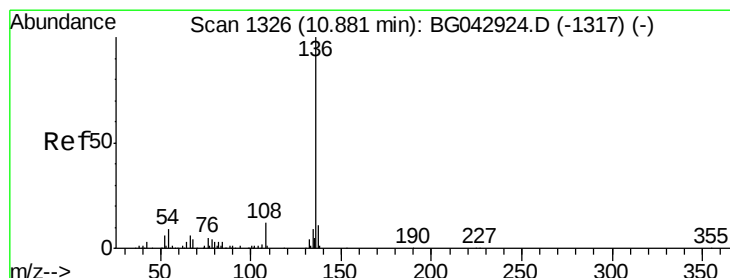
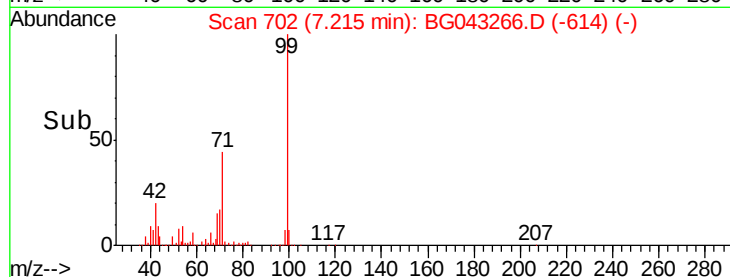
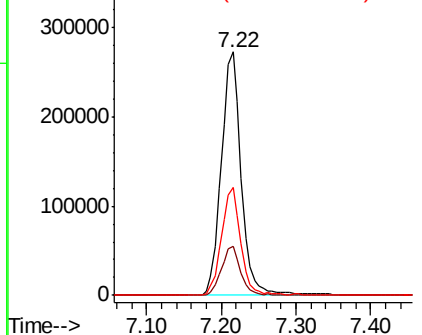


Abundance

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.85 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Tgt Ion:	136	Resp:	214539
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.5	12.7
54	9.3	7.4	11.2
68	5.2	3.6	5.4

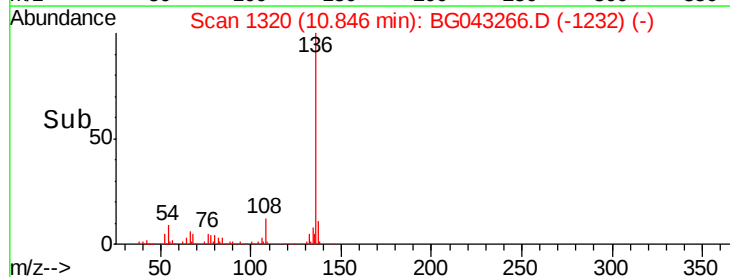
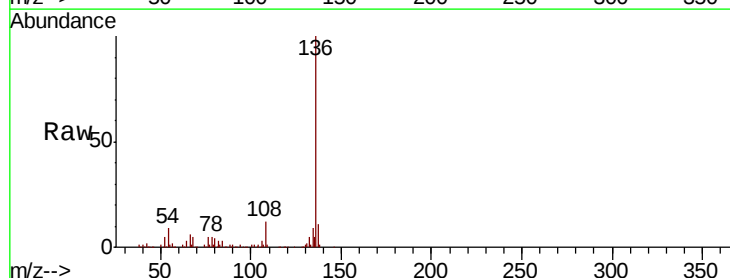
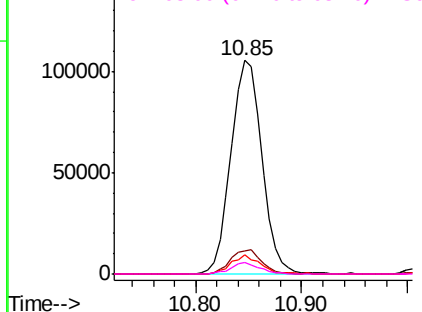
Abundance

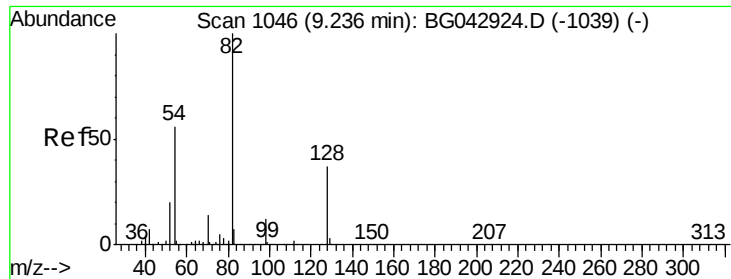
Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC





#23

Nitrobenzene-d5

Concen: 73.178 ng

RT: 9.20 min Scan# 1040

Delta R.T. -0.02 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

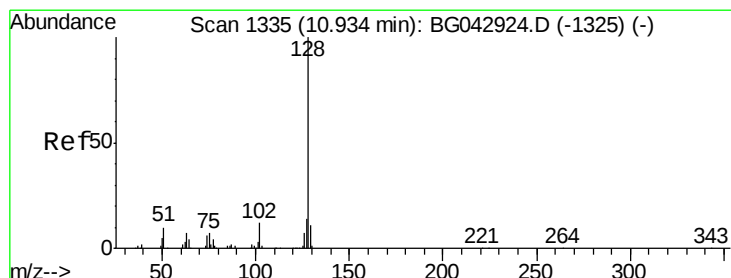
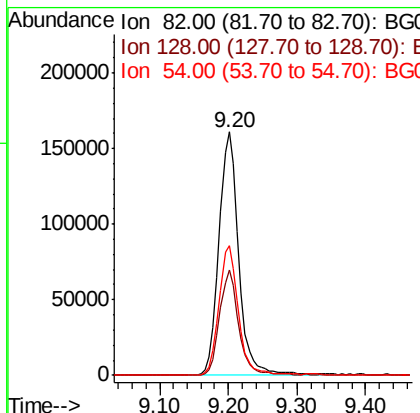
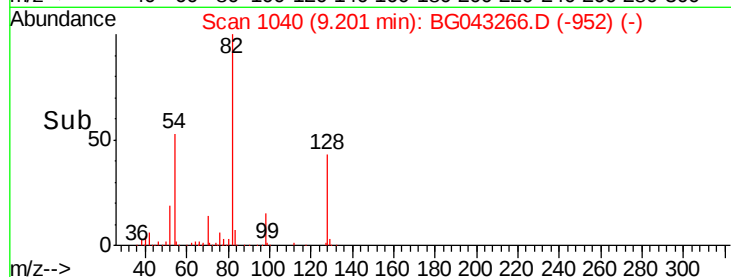
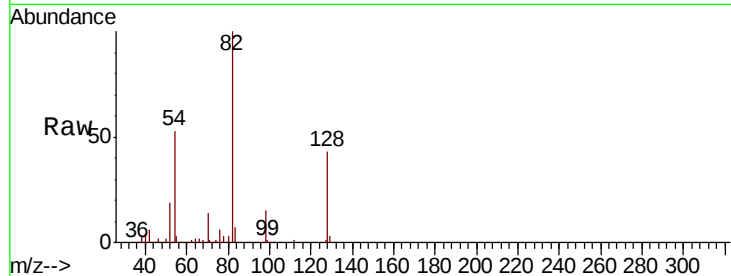
ClientSampleId :

VNJ-209

Tot Ion:	82	Resp:	323001
Ion	Ratio	Lower	Upper
82	100		
128	43.3	29.5	44.3
54	53.1	44.6	67.0

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#31

Naphthalene

Concen: 298.773 ng

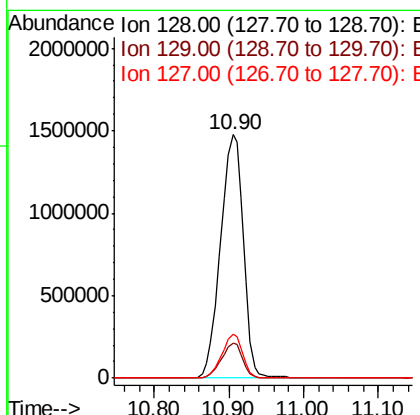
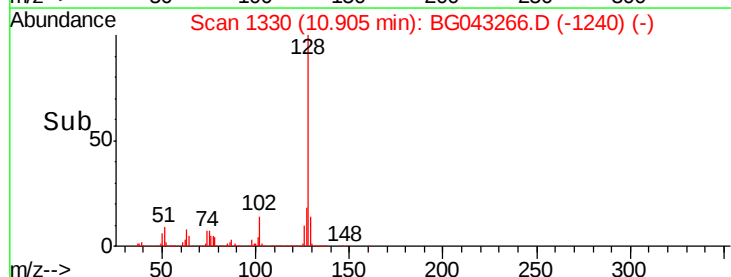
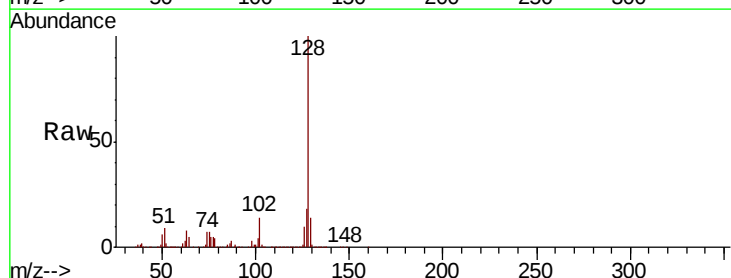
RT: 10.90 min Scan# 1330

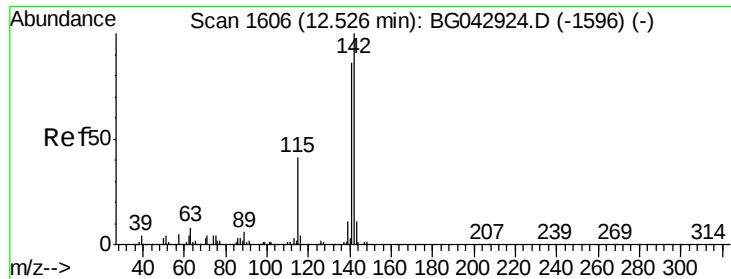
Delta R.T. -0.00 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Tgt Ion:	128	Resp:	3155333
Ion	Ratio	Lower	Upper
128	100		
129	14.5	8.8	13.2#
127	18.0	11.3	16.9#





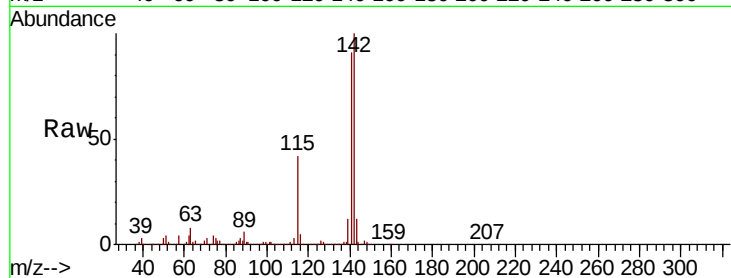
#37
2-Methylnaphthalene
Concen: 121.064 ng
RT: 12.50 min Scan# 1602
Delta R.T. -0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Resp	Lower	Upper
142	100	975371		
141	90.5	69.0	103.4	
115	41.6	32.8	49.2	

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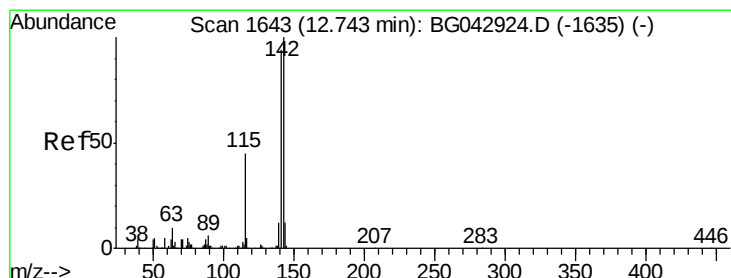
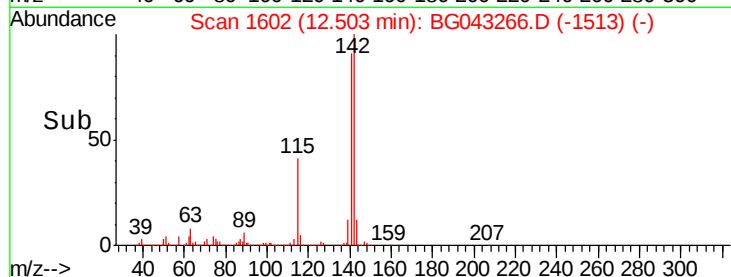
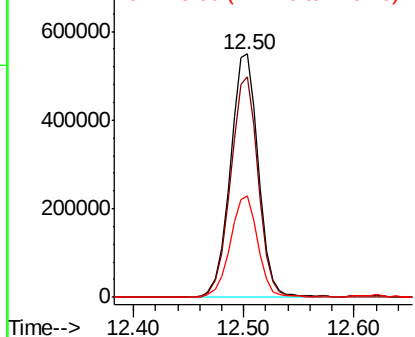


Abundance

Ion 142.00 (141.70 to 142.70): E

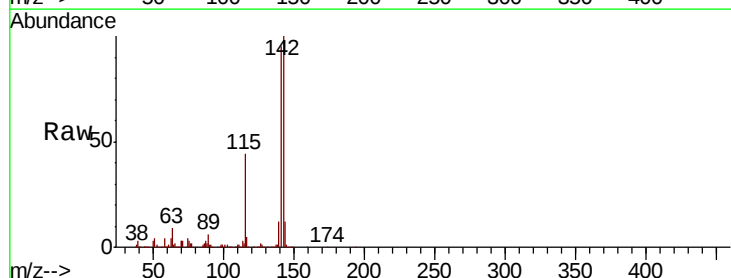
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 98.397 ng
RT: 12.72 min Scan# 1639
Delta R.T. -0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	750127		
141	94.7	74.9	112.3	
116	4.8	3.7	5.5	

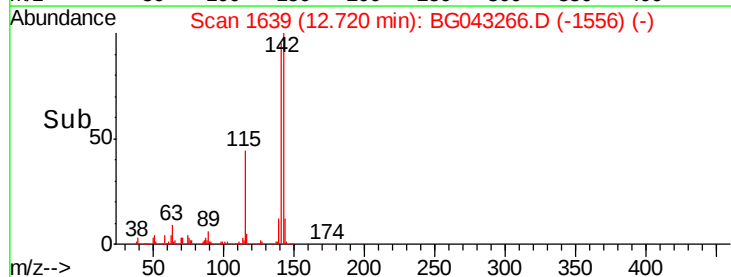
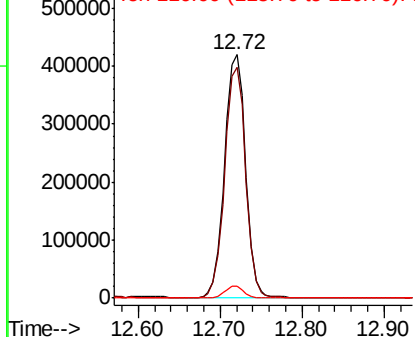


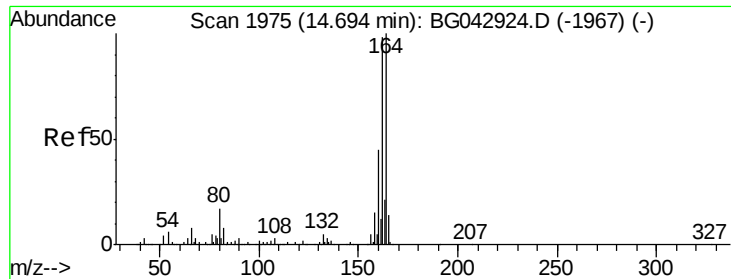
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





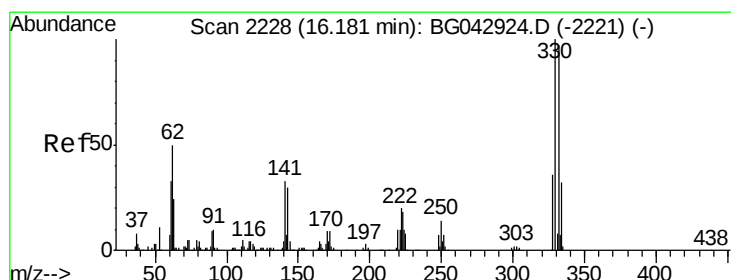
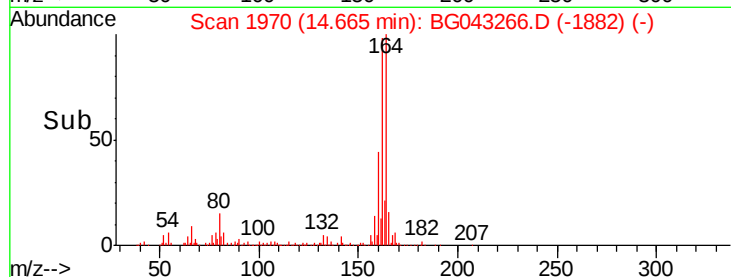
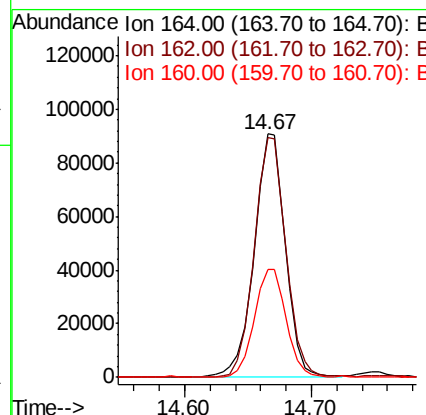
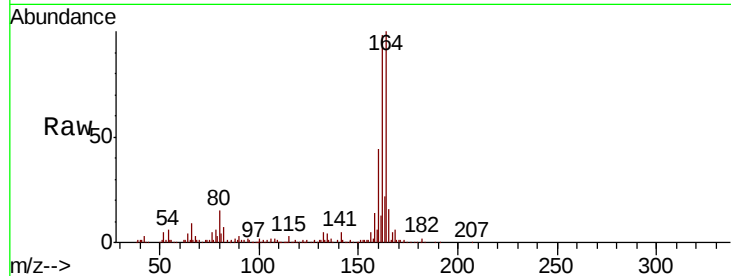
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.67 min Scan# 1970
Delta R.T. -0.02 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.5	78.5	117.7
160	44.2	35.9	53.9

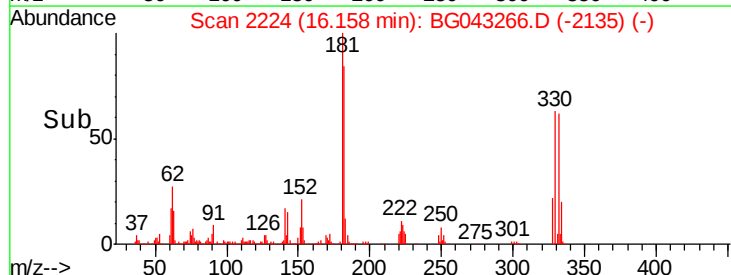
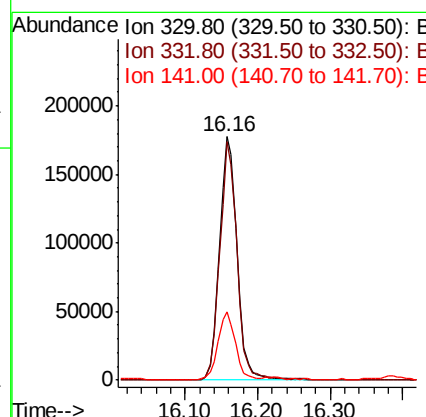
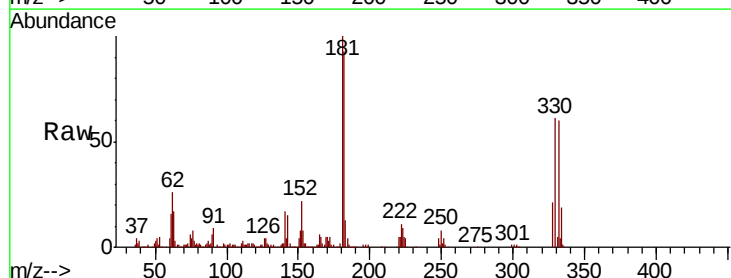
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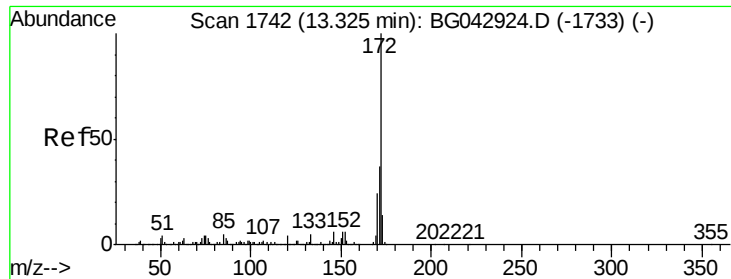
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#42
2,4,6-Tribromophenol
Concen: 110.954 ng
RT: 16.16 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	78.2	117.2
141	27.0	26.0	39.0





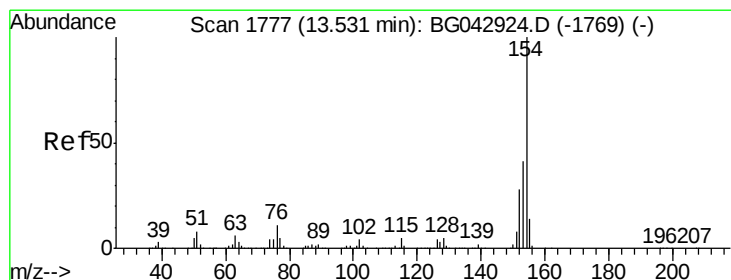
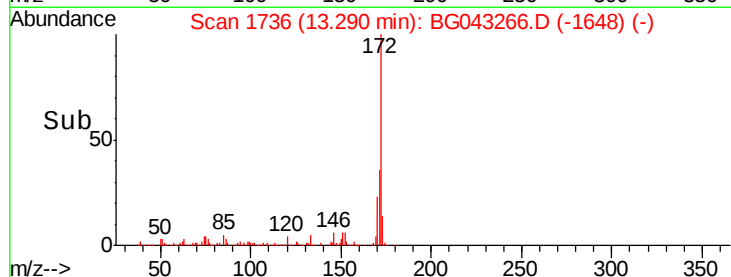
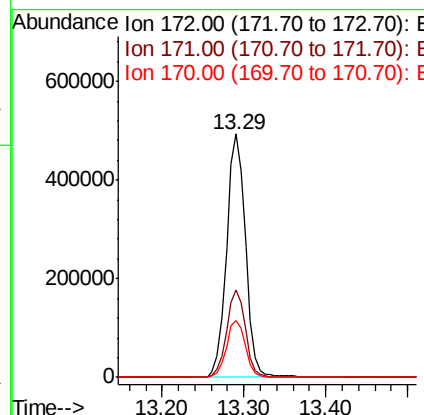
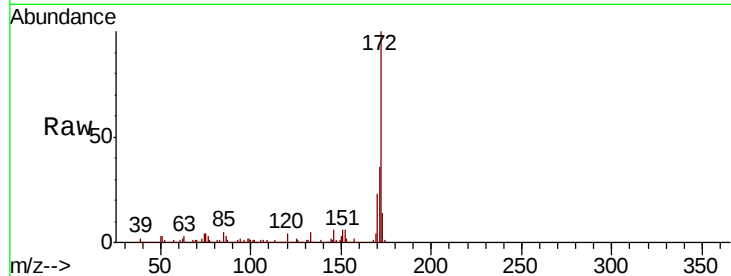
#45
 2-Fluorobiphenyl
 Concen: 73.866 ng
 RT: 13.29 min Scan# 1736
 Delta R.T. -0.02 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.3	19.6	29.4

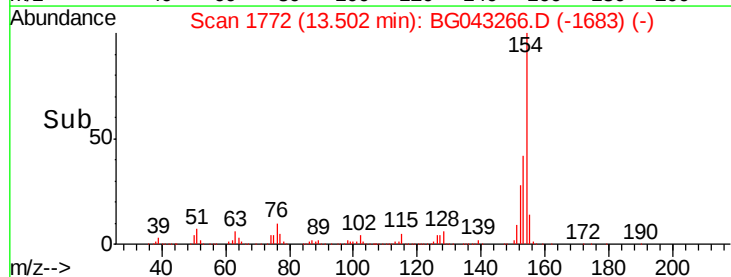
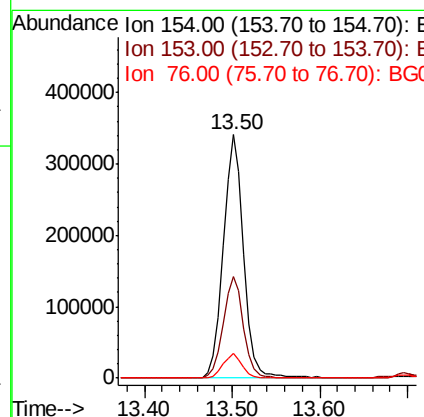
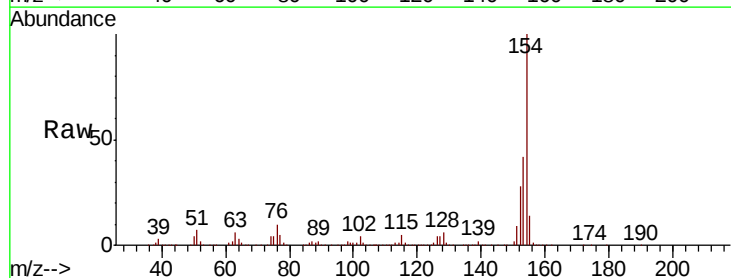
Manual Integrations
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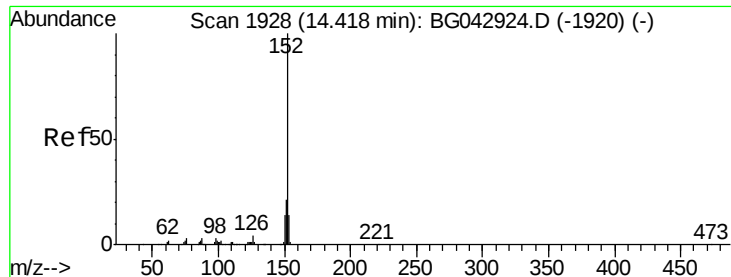
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#46
 1,1'-Biphenyl
 Concen: 45.906 ng
 RT: 13.50 min Scan# 1772
 Delta R.T. -0.01 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.0	21.4	61.4
76	10.4	0.0	31.3





#49

Acenaphthylene

Concen: 6.776 ng

RT: 14.39 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

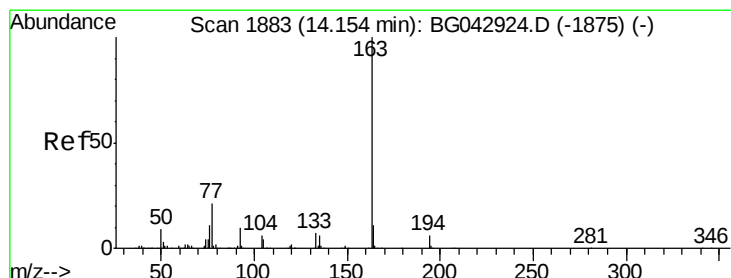
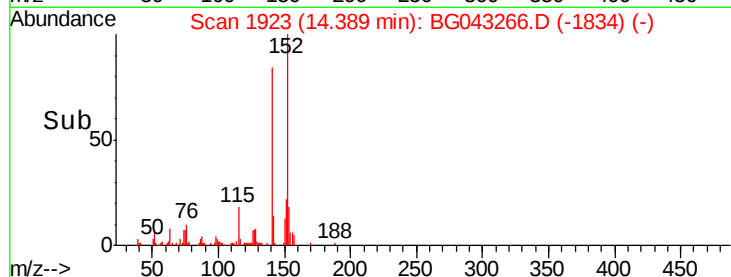
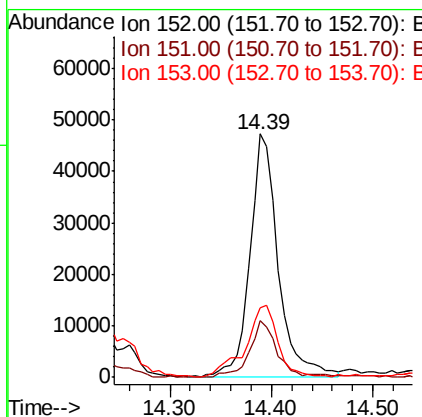
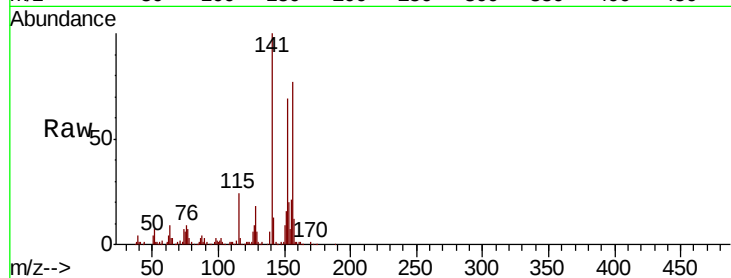
ClientSampleId :

VNJ-209

Tot Ion:	152	Resp:	92158
Ion Ratio	Lower	Upper	
152	100		
151	23.4	16.8	25.2
153	28.6	11.3	16.9#

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#50

Dimethylphthalate

Concen: 8.730 ng

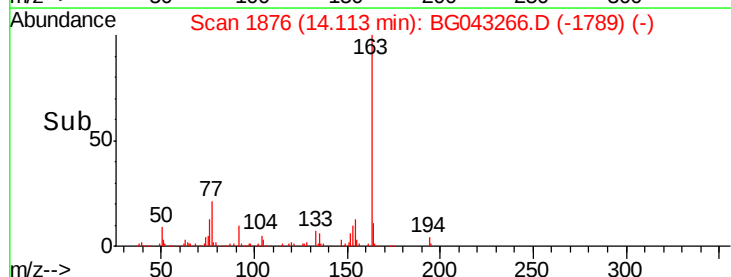
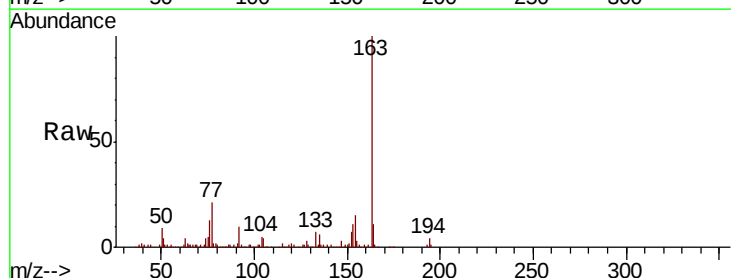
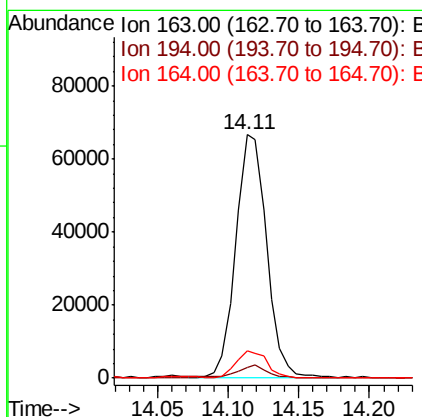
RT: 14.11 min Scan# 1876

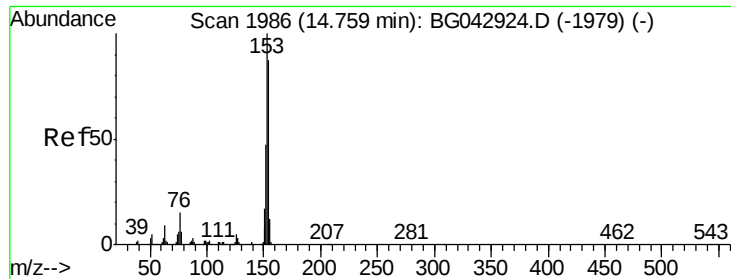
Delta R.T. -0.02 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Tgt Ion:	163	Resp:	102261
Ion Ratio	Lower	Upper	
163	100		
194	4.1	4.4	6.6#
164	11.4	8.6	12.8





#52

Acenaphthene

Concen: 131.965 ng

RT: 14.74 min Scan# 1982

Delta R.T. -0.01 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

ClientSampleId :

VNJ-209

Tot Ion:154 Resp: 1201414

Ion Ratio Lower Upper

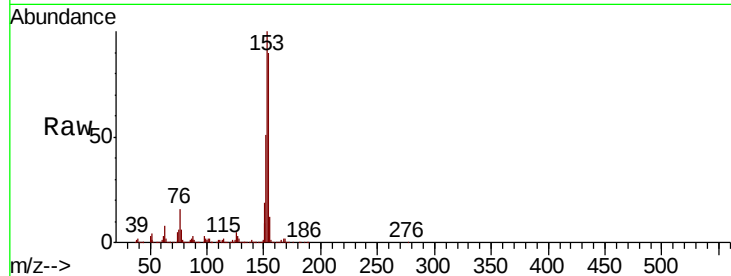
154 100

153 110.6 91.4 137.0

152 56.0 42.8 64.2

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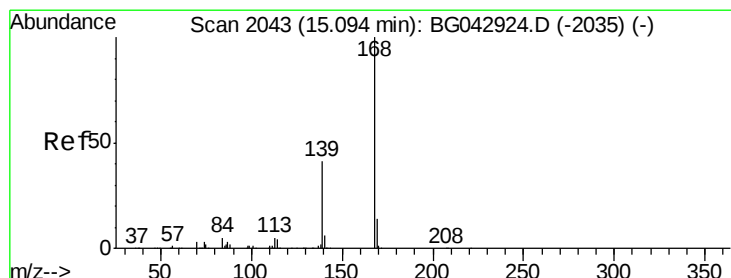
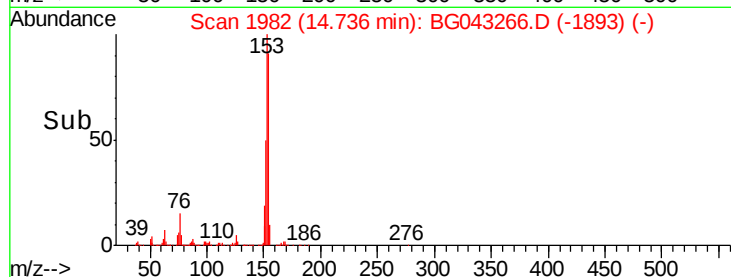
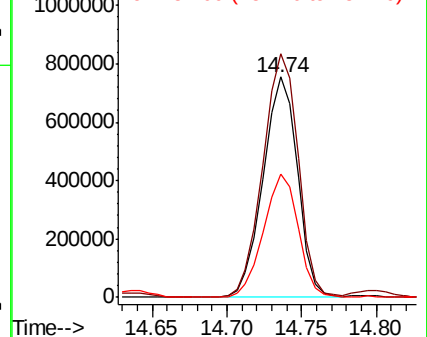


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 166.719 ng

RT: 15.07 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

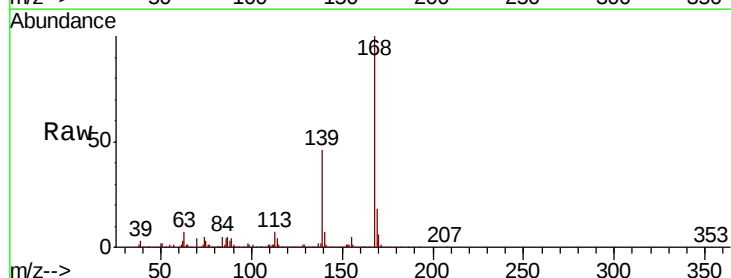
Tgt Ion:168 Resp: 2245284

Ion Ratio Lower Upper

168 100

139 45.7 32.6 48.8

169 18.3 11.2 16.8#

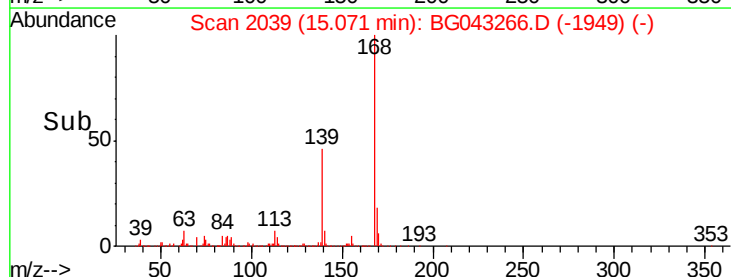
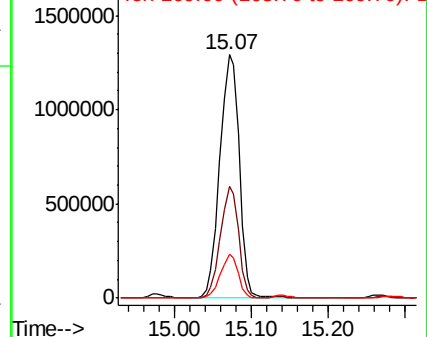


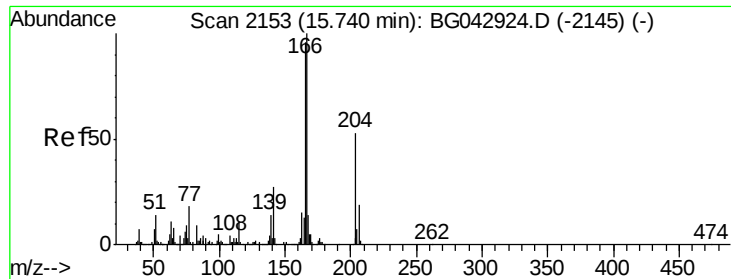
Abundance

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





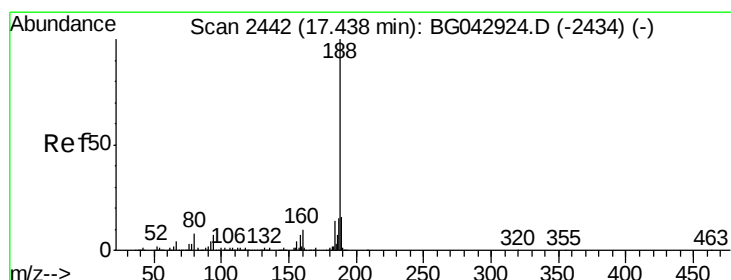
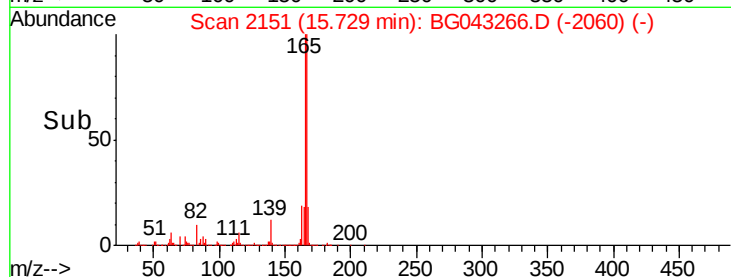
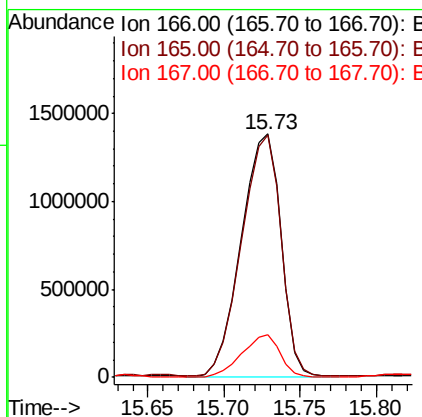
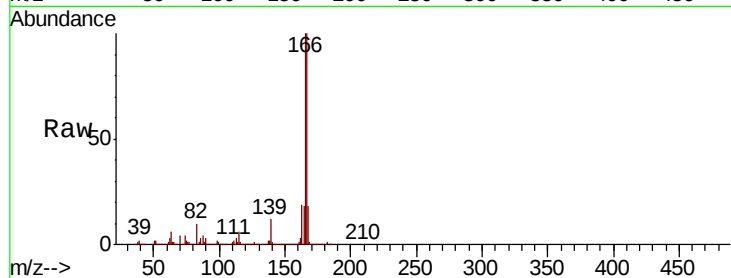
#58
Fluorene
 Concen: 220.194 ng/ml
 RT: 15.73 min Scan# 2151
 Delta R.T. 0.00 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	77.1	115.7
167	17.7	11.0	16.6

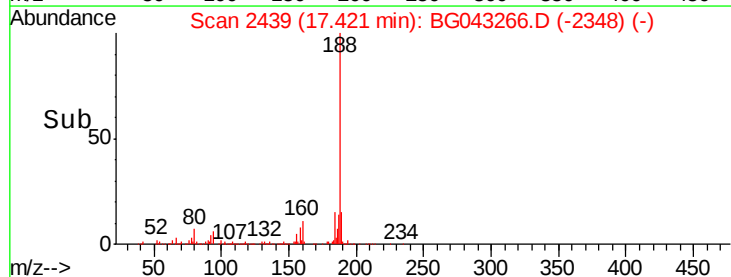
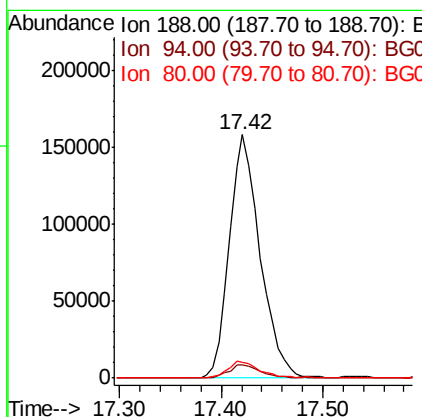
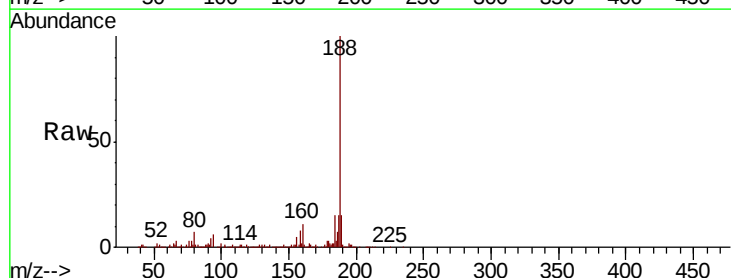
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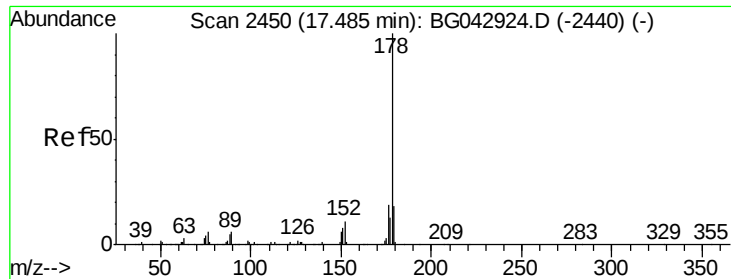
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#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.42 min Scan# 2439
 Delta R.T. 0.00 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.5	5.7	8.5
80	6.5	6.5	9.7





#71

Phenanthrene

Concen: 386.273 ng

RT: 17.49 min Scan# 2450

Delta R.T. 0.02 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

ClientSampled :

VNJ-209

Tot Ion:178 Resp: 6276649

Ion Ratio Lower Upper

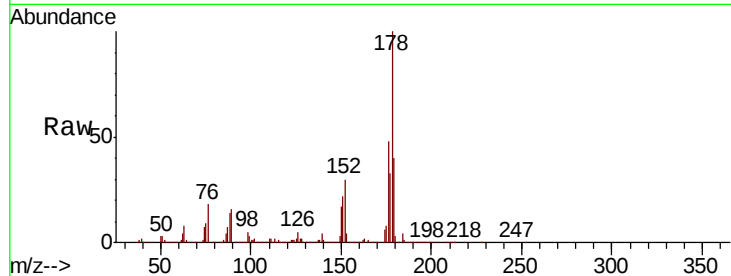
178 100

176 48.2 15.1 22.7#

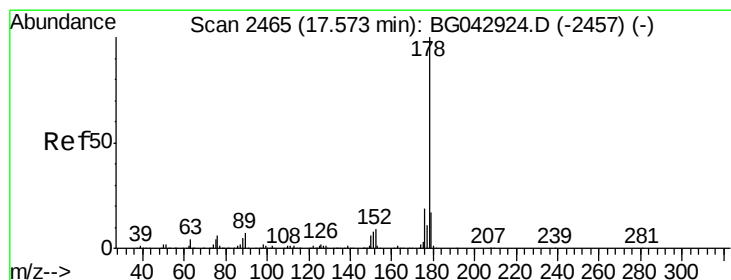
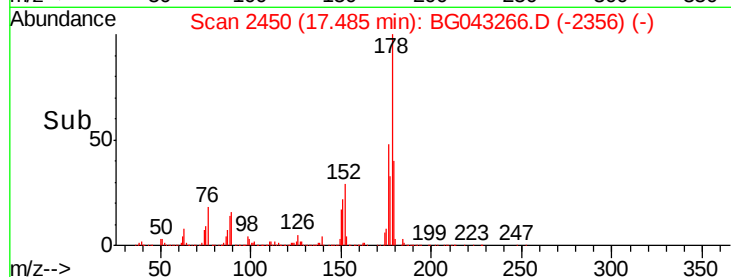
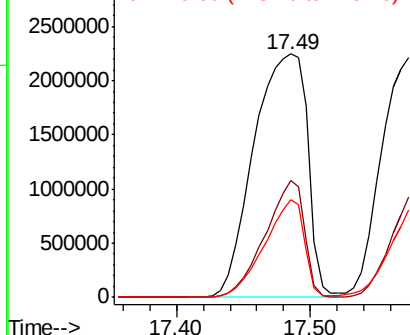
179 40.0 14.1 21.1#

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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: 472.639 ng

RT: 17.59 min Scan# 2468

Delta R.T. 0.04 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

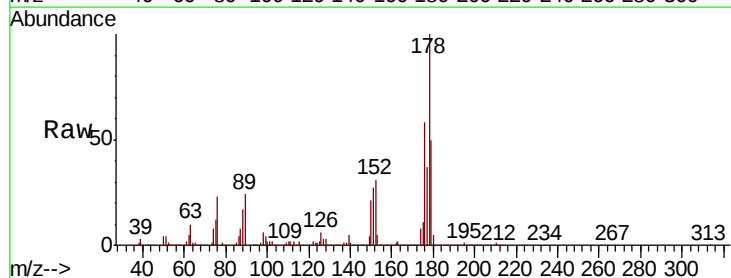
Tgt Ion:178 Resp: 7667082

Ion Ratio Lower Upper

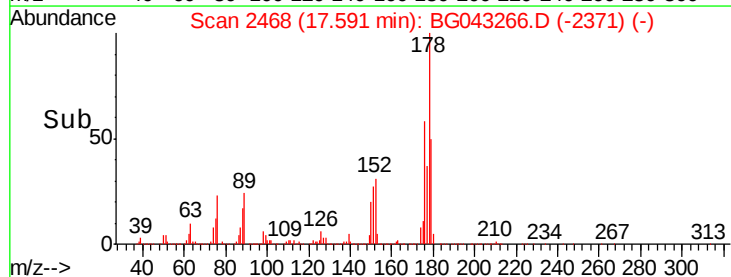
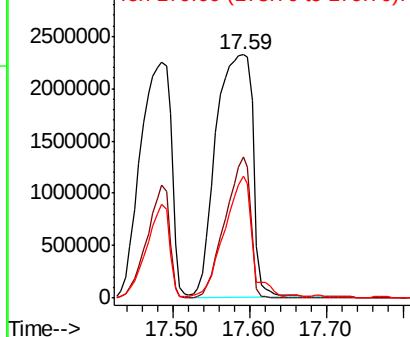
178 100

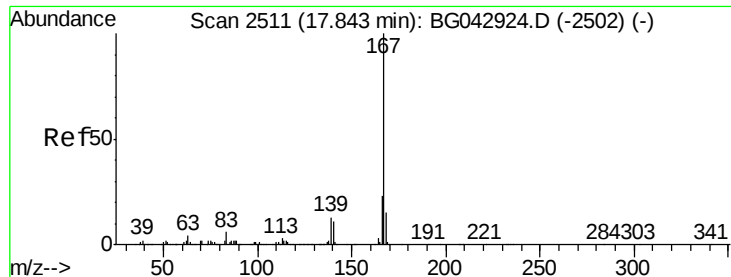
176 58.0 15.5 23.3#

179 50.3 13.5 20.3#



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





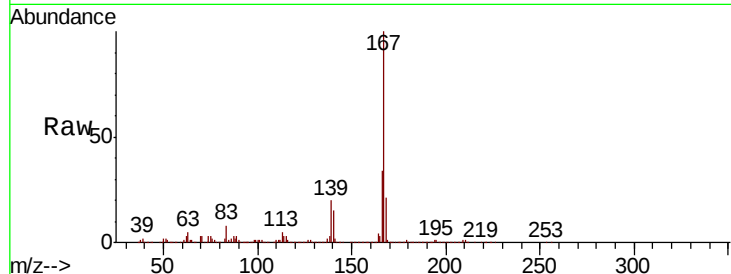
#73
 Carbazole
 Concen: 253.459 ng
 RT: 17.84 min Scan# 2511
 Delta R.T. 0.02 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Instrument :
 BNA_G
 ClientSampleId :
 VNJ-209

Tot Ion	Ratio	Lower	Upper
167	100		
166	33.6	18.6	28.0#
139	19.7	10.8	16.2#

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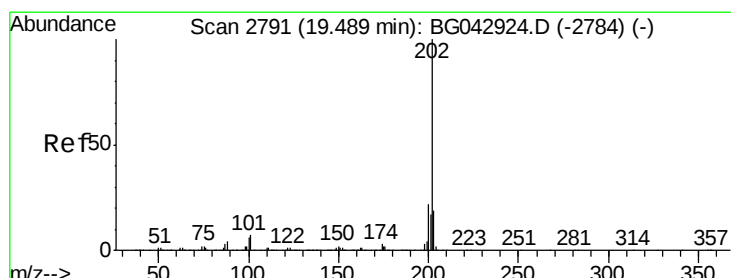
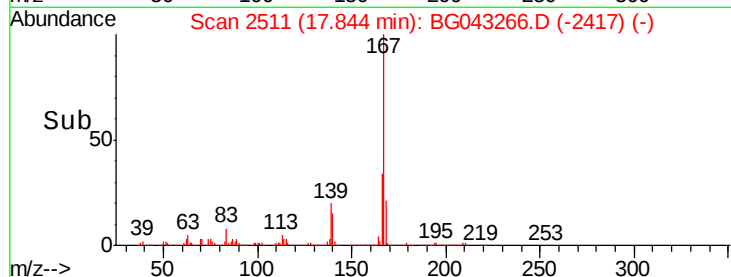
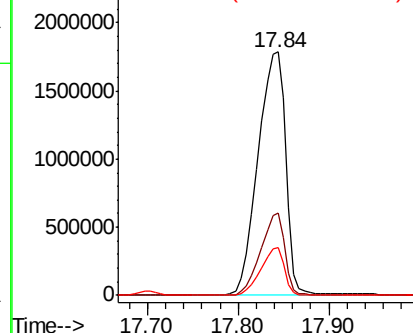


Abundance

Ion 167.00 (166.70 to 167.70): E

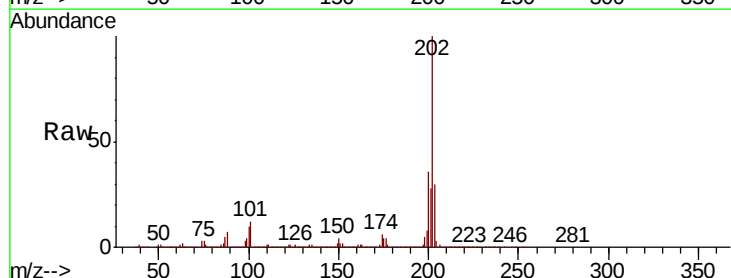
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75
 Fluoranthene
 Concen: 183.091 ng
 RT: 19.48 min Scan# 2790
 Delta R.T. 0.01 min
 Lab File: BG043266.D
 Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	27.3
203	30.4	0.0	39.5

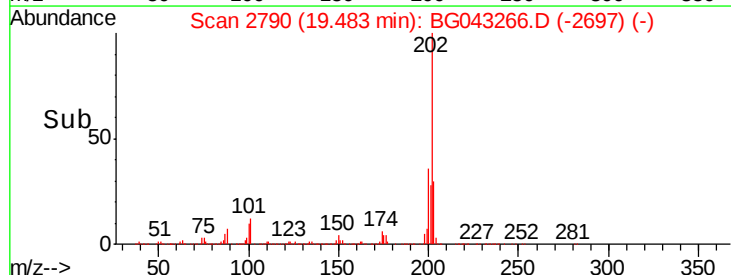
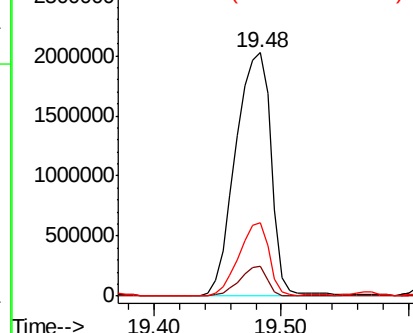


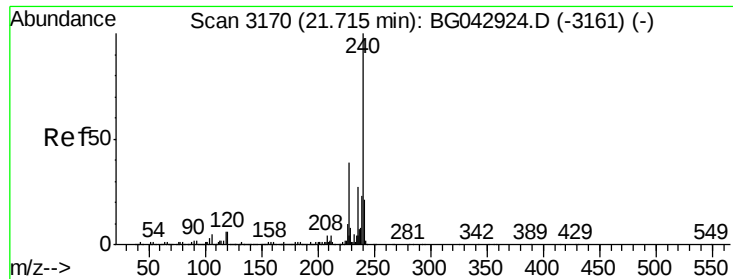
Abundance

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





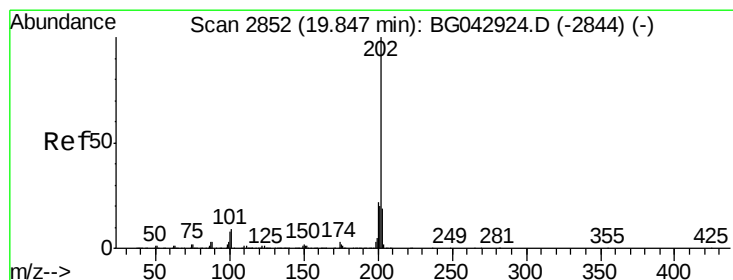
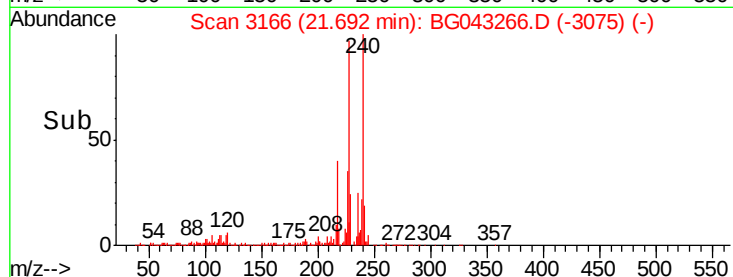
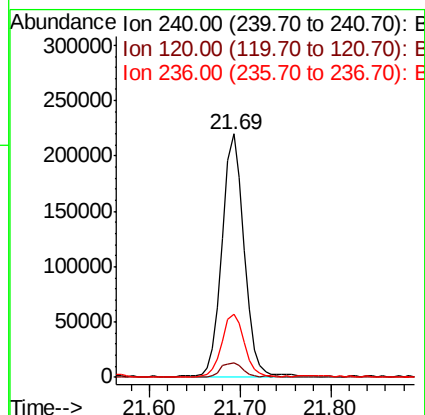
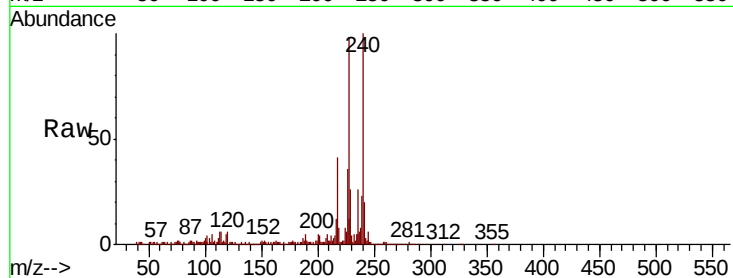
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.69 min Scan# 3166
Delta R.T. 0.00 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
240	100		
120	6.0	4.8	7.2
236	25.9	21.4	32.0

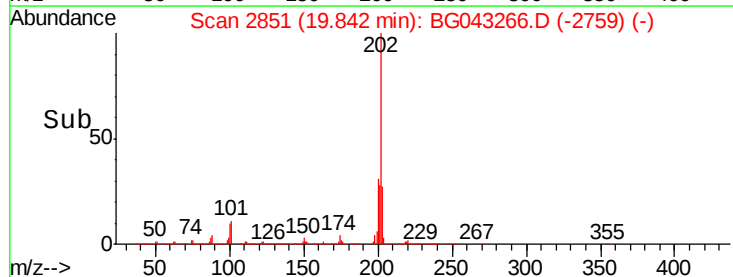
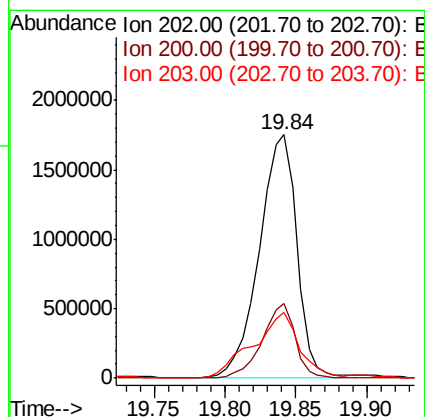
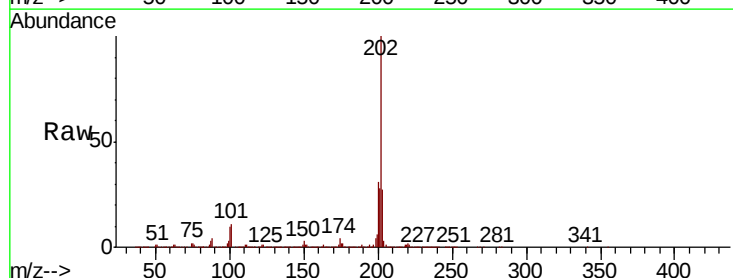
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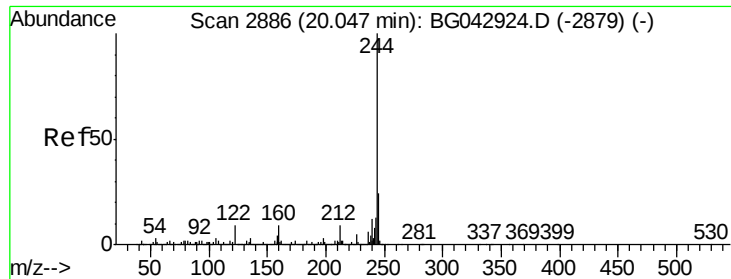
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#78
Pyrene
Concen: 147.471 ng m
RT: 19.84 min Scan# 2851
Delta R.T. 0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	30.8	17.6	26.4#
203	27.1	15.2	22.8#





#79

Terphenyl-d14

Concen: 76.915 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

ClientSampleId :

VNJ-209

Tot Ion:244 Resp: 1329611

Ion Ratio Lower Upper

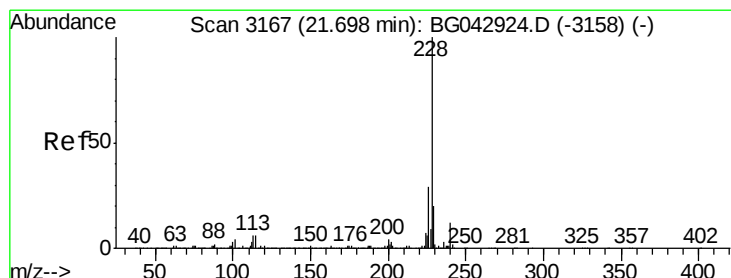
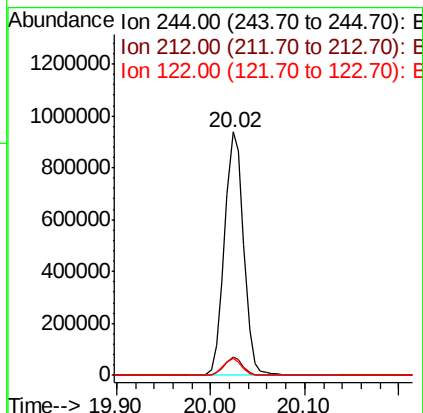
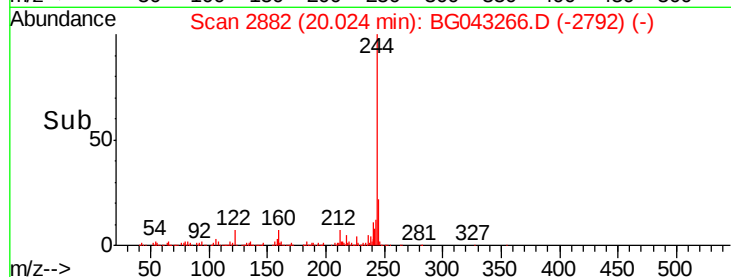
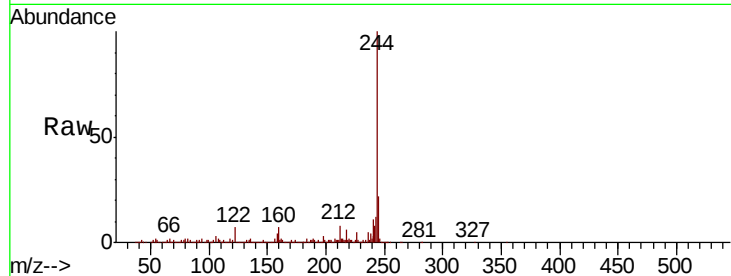
244 100

212 7.6 7.4 11.0

122 7.1 7.0 10.4

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#81

Benzo(a)anthracene

Concen: 69.706 ng

RT: 21.67 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

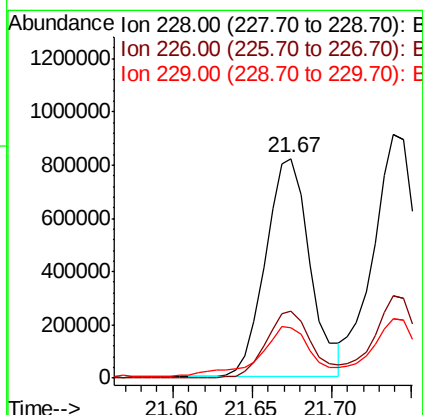
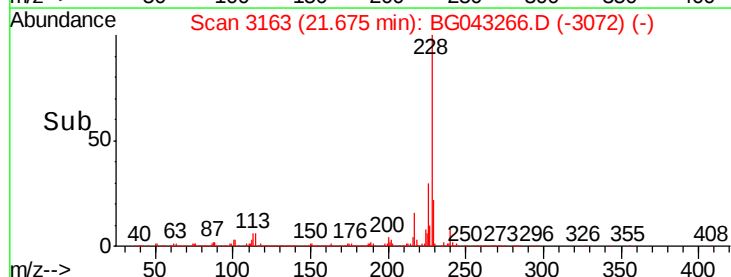
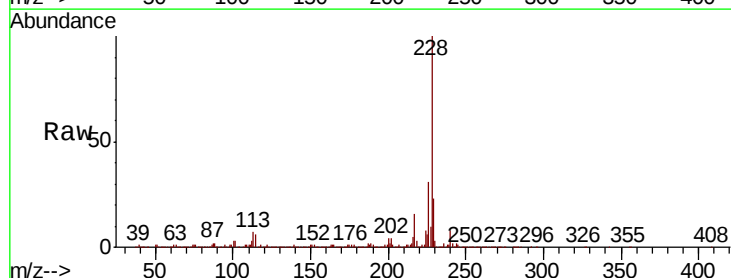
Tgt Ion:228 Resp: 1599895

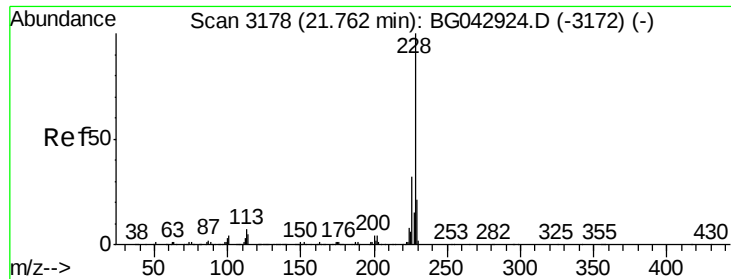
Ion Ratio Lower Upper

228 100

226 30.8 23.0 34.4

229 22.8 16.3 24.5





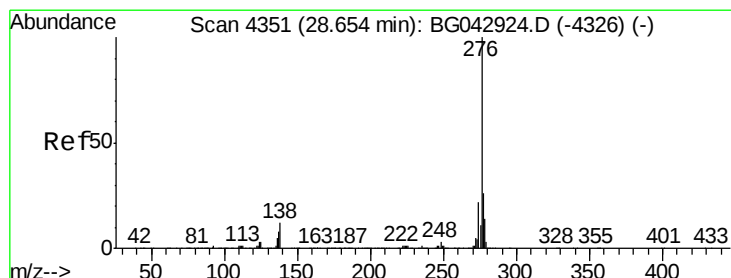
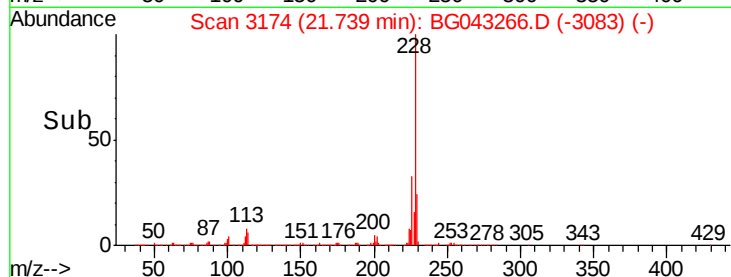
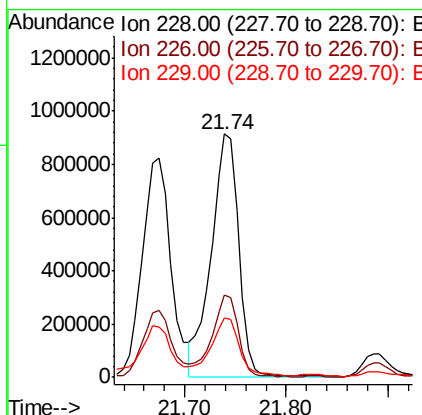
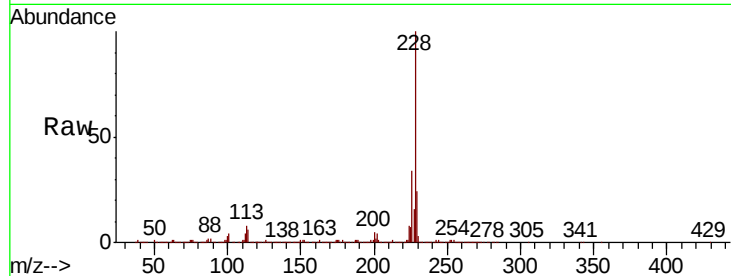
#83
Chrysene
Concen: 76.463 ng
RT: 21.74 min Scan# 3174
Delta R.T. 0.00 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.6	25.6	38.4
229	24.5	16.9	25.3

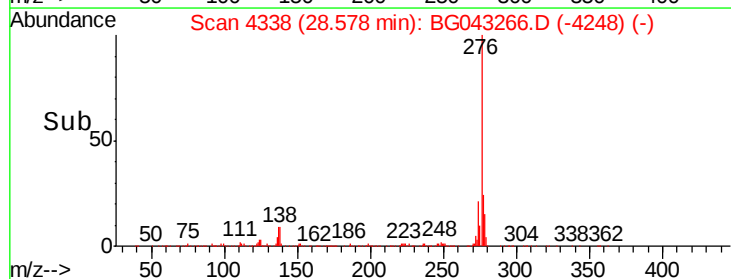
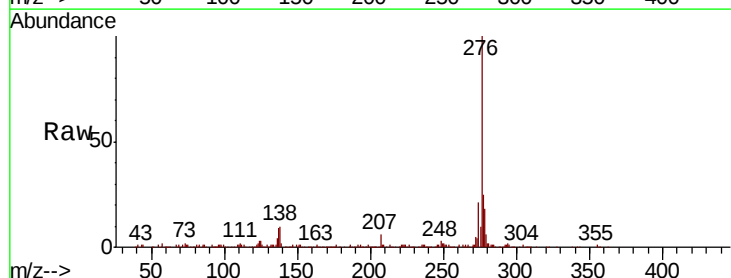
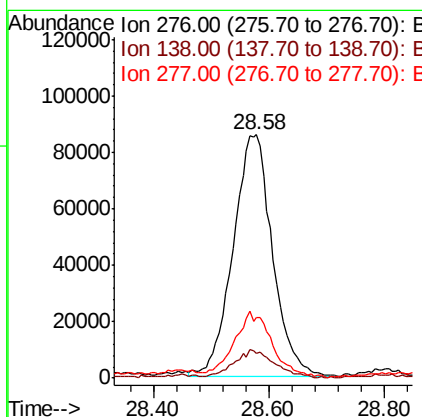
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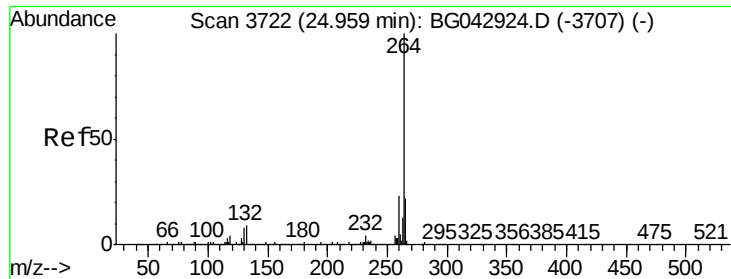
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 14.710 ng
RT: 28.58 min Scan# 4338
Delta R.T. -0.00 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
276	100		
138	11.3	7.0	10.6#
277	26.0	20.9	31.3





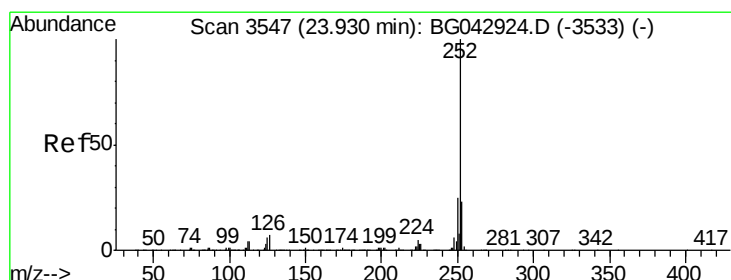
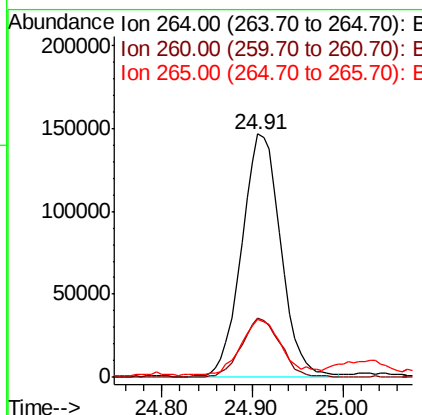
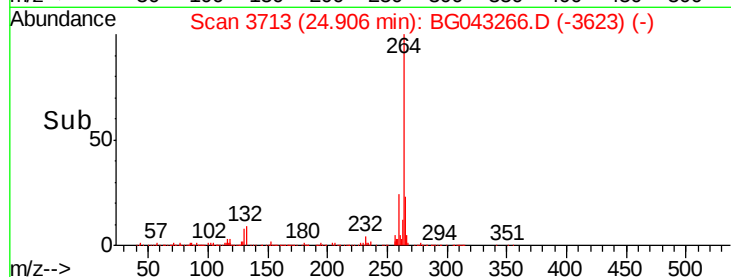
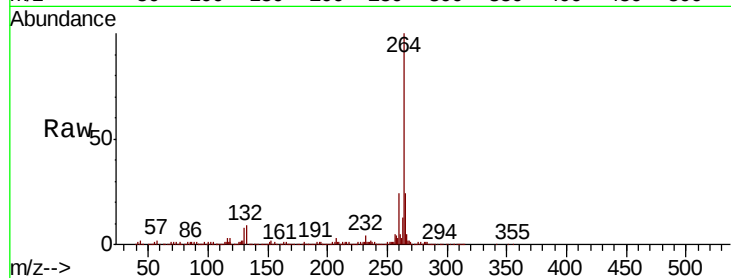
#87
Pervlene-d12
Concen: 20.000 ng
RT: 24.91 min Scan# 3713
Delta R.T. -0.00 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.7	28.1
265	23.7	17.7	26.5

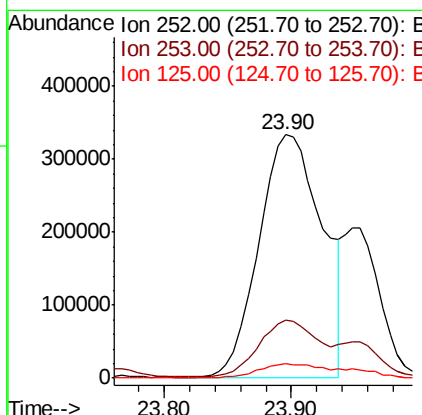
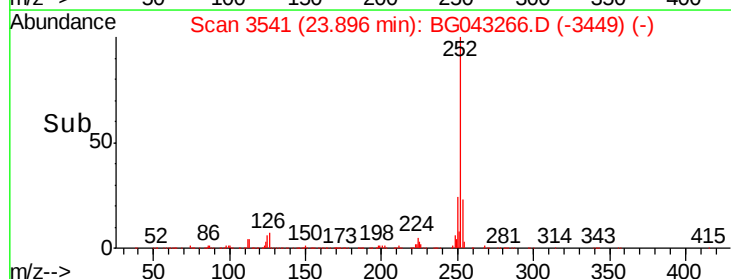
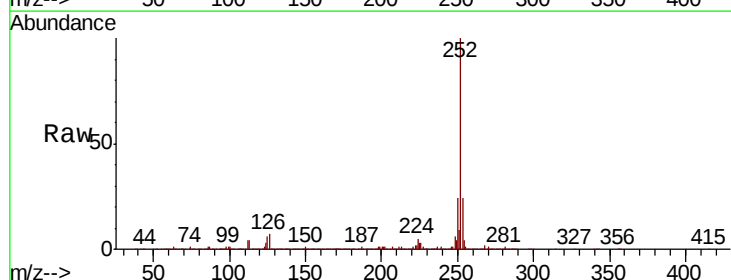
Manual Integrations
APPROVED

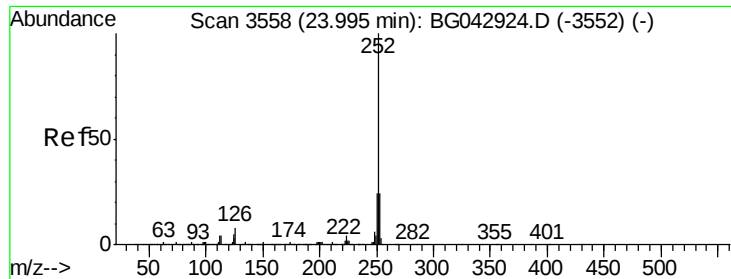
mohammad
10/20/2019 8:12:10 PM



#88
Benzo(b)fluoranthene
Concen: 46.827 ng
RT: 23.90 min Scan# 3541
Delta R.T. 0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	6.1	4.6	7.0





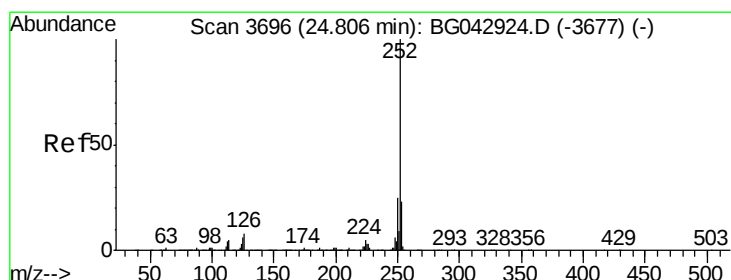
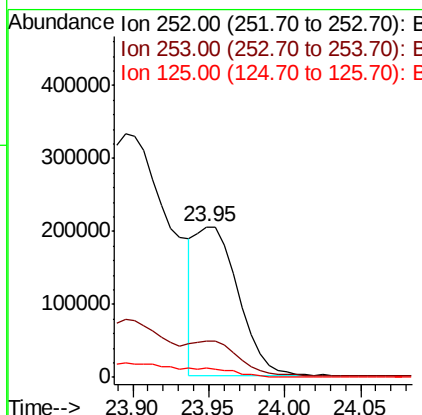
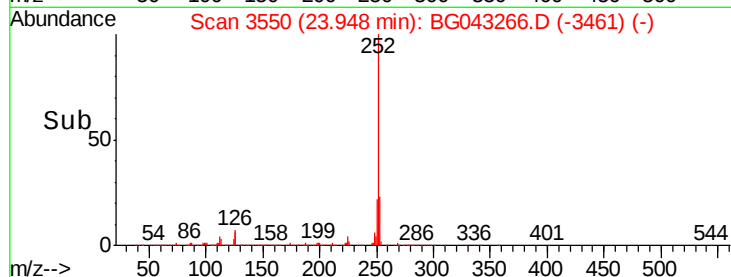
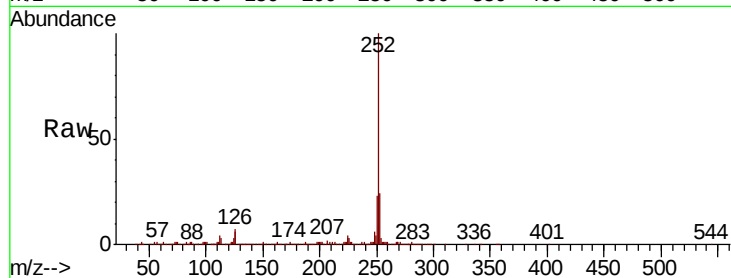
#89
Benzo(k)fluoranthene
Concen: 16.279 ng/mL
RT: 23.95 min Scan# 3550
Delta R.T. -0.01 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Instrument :
BNA_G
ClientSampleId :
VNJ-209

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.9	28.3
125	6.1	4.5	6.7

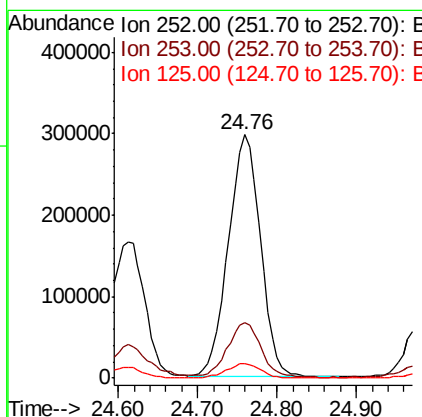
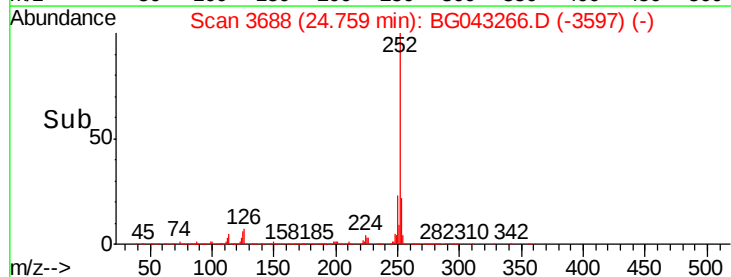
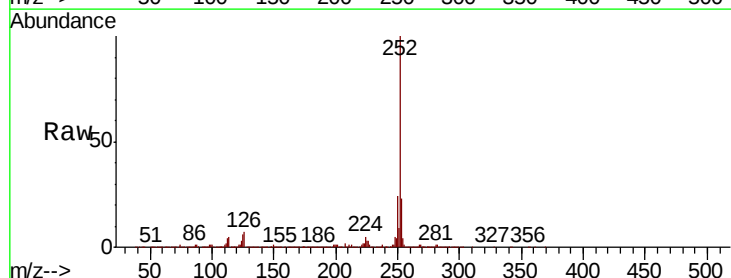
Manual Integrations
APPROVED

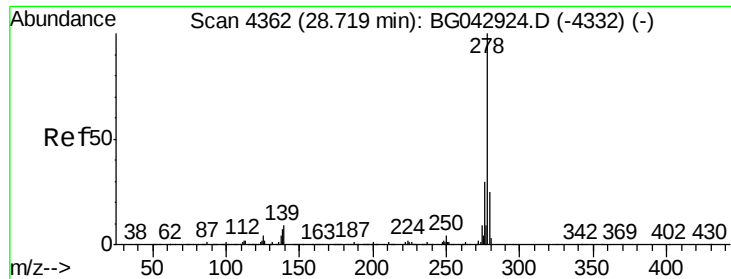
mohammad
10/20/2019 8:12:10 PM



#90
Benzo(a)pyrene
Concen: 35.863 ng/mL
RT: 24.76 min Scan# 3688
Delta R.T. 0.00 min
Lab File: BG043266.D
Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	6.2	5.0	7.6





#91

Dibenzo(a,h)anthracene

Concen: 5.038 ng

RT: 28.61 min Scan# 4343

Delta R.T. -0.03 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Instrument :

BNA_G

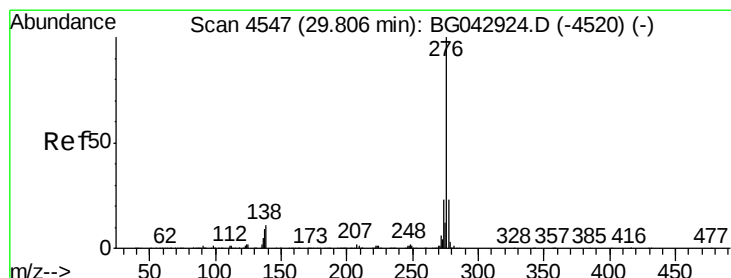
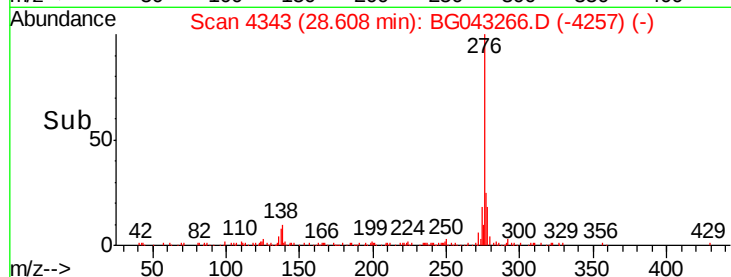
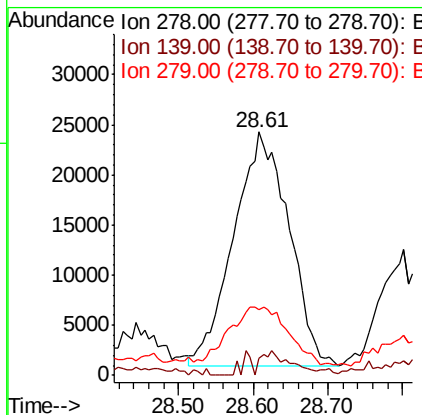
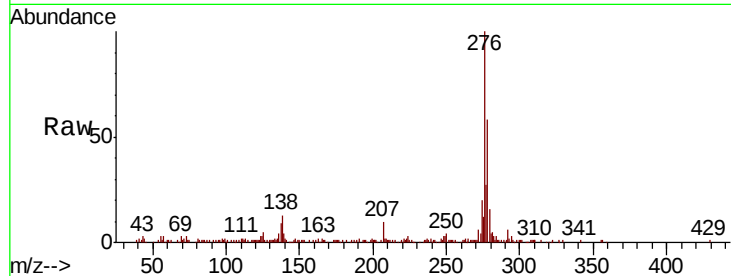
ClientSampleId :

VNJ-209

Tot Ion:	278	Resp:	120462
Ion Ratio	Lower	Upper	
278	100		
139	7.1	6.8	10.2
279	27.2	20.1	30.1

Manual Integrations
APPROVED

mohammad
10/20/2019 8:12:10 PM



#92

Benzo(g,h,i)perylene

Concen: 14.603 ng

RT: 29.72 min Scan# 4533

Delta R.T. 0.00 min

Lab File: BG043266.D

Acq: 17 Oct 2019 17:43

Tgt Ion:	276	Resp:	338343
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.4	27.6
138	11.2	8.6	12.8

