

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
 Data File : BF118613.D
 Acq On : 21 Jan 2020 1:31
 Operator : CG/JU
 Sample : L1164-08
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 QVD-SB-BC-0-5

Manual Integrations
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Quant Time: Jan 21 03:20:22 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	397797	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1335195	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	660614	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	1097466	20.00	ng	0.00
76) Chrysene-d12	14.05	240	898687	20.00	ng	0.00
87) Perylene-d12	15.53	264	890420	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	1973096	92.12	ng	0.00
7) Phenol-d6	6.50	99	2490393	89.46	ng	0.00
23) Nitrobenzene-d5	7.44	82	1474877	61.79	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	642799	84.13	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	2663239	66.26	ng	0.00
79) Terphenyl-d14	12.99	244	2866540	69.57	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.19	128	149173	2.473	ng	95
50) Dimethylphthalate	9.63	163	190691	4.431	ng	97
52) Acenaphthene	9.95	154	142251	3.941	ng	96
55) Dibenzofuran	10.12	168	170294	3.404	ng	96
58) Fluorene	10.46	166	149881	3.816	ng	99
71) Phenanthrene	11.43	178	2057265	38.856	ng	96
72) Anthracene	11.48	178	619118	11.817	ng	93
73) Carbazole	11.63	167	283085	5.891	ng	95
75) Fluoranthene	12.62	202	2712847	48.580	ng	98
78) Pyrene	12.85	202	2324512	38.099	ng	95
81) Benzo(a)anthracene	14.04	228	1410184	26.085	ng	99
83) Chrysene	14.07	228	1248366	24.094	ng	96
86) Indeno(1,2,3-cd)pyrene	17.02	276	623187	13.843	ng	97
88) Benzo(b)fluoranthene	15.10	252	1669984m	29.837	ng	
89) Benzo(k)fluoranthene	15.12	252	493361m	9.515	ng	
90) Benzo(a)pyrene	15.47	252	1068196	22.125	ng	# 95
91) Dibenzo(a,h)anthracene	17.03	278	163484	3.828	ng	# 67
92) Benzo(g,h,i)perylene	17.47	276	552055	13.313	ng	94

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

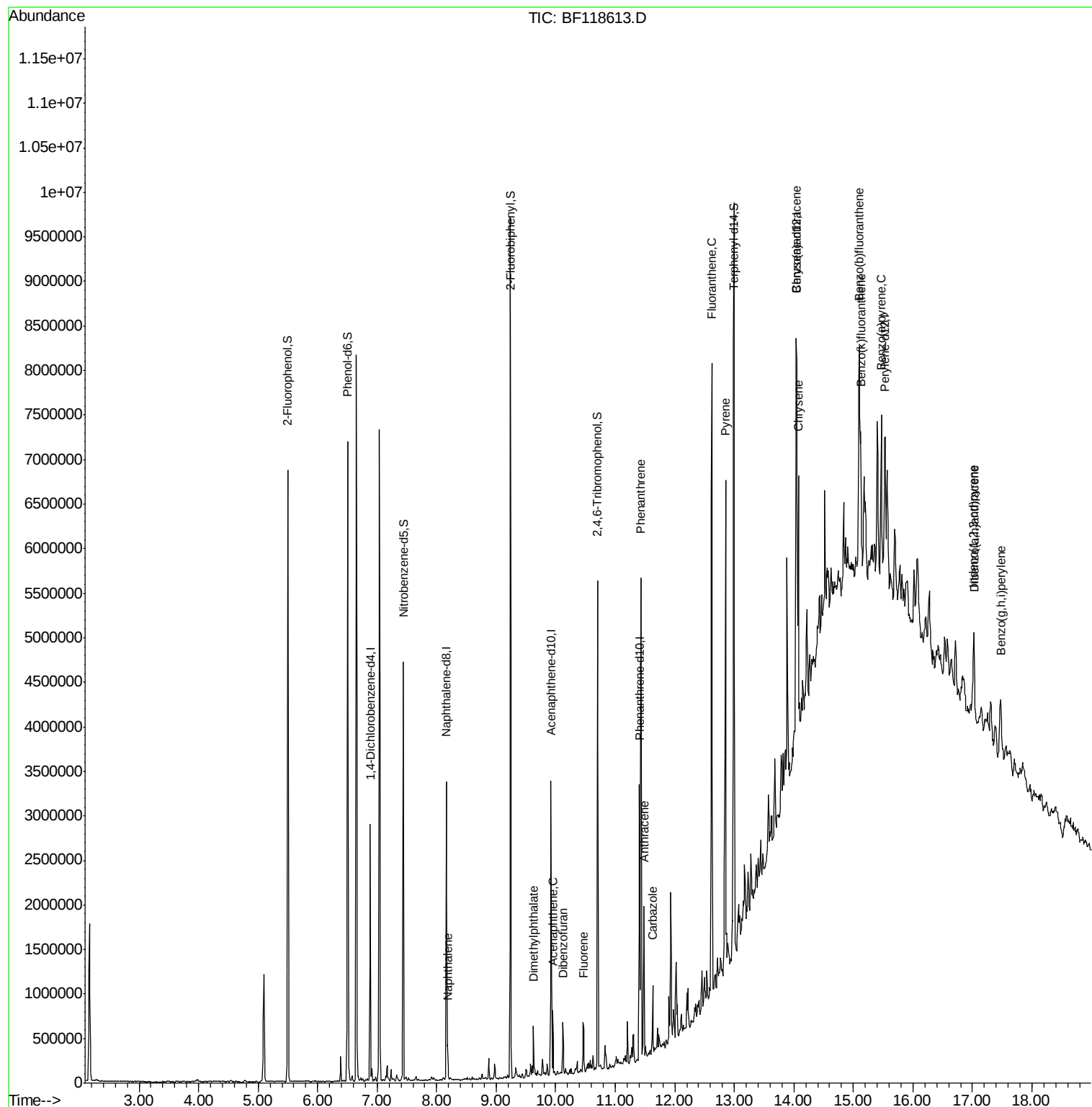
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
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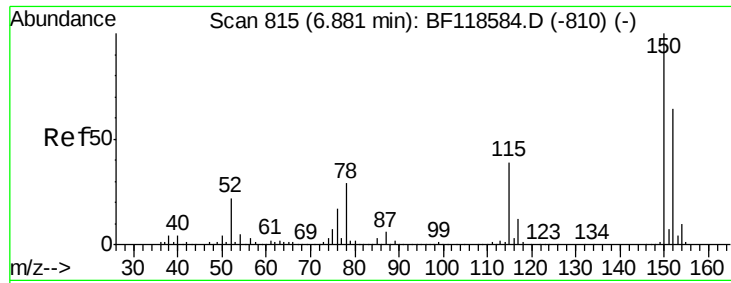
Instrument :
BNA_F
ClientSampleId :
QVD-SB-BC-0-5

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Quant Time: Jan 21 03:20:22 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 20 14:45:03 2020
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#1

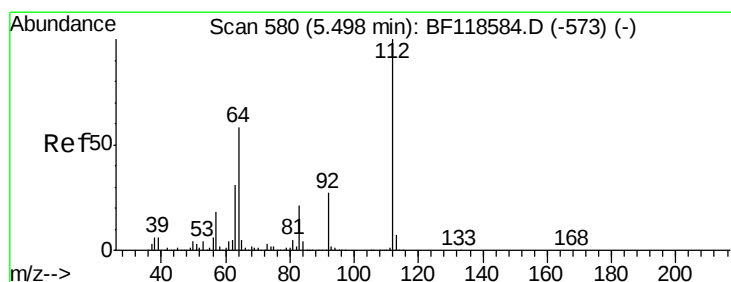
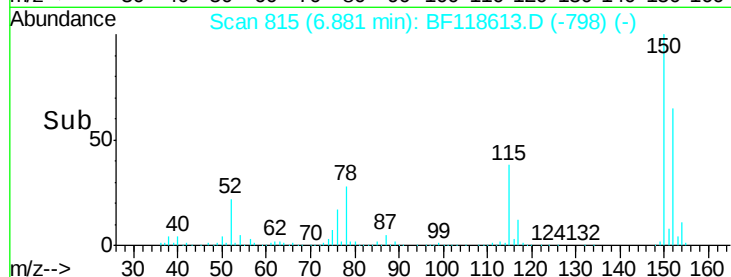
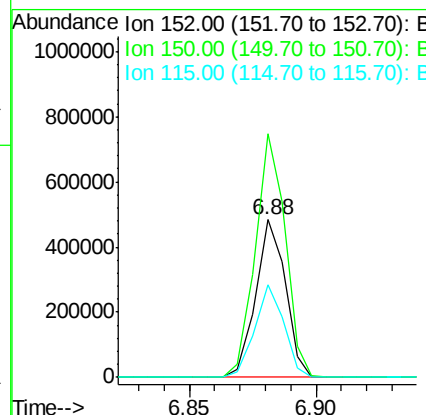
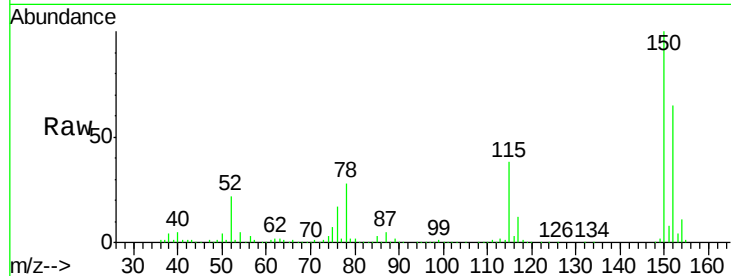
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Instrument :
BNA_F
ClientSampleId :
QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	125.6	188.4
115	59.1	48.4	72.6

Manual Integrations
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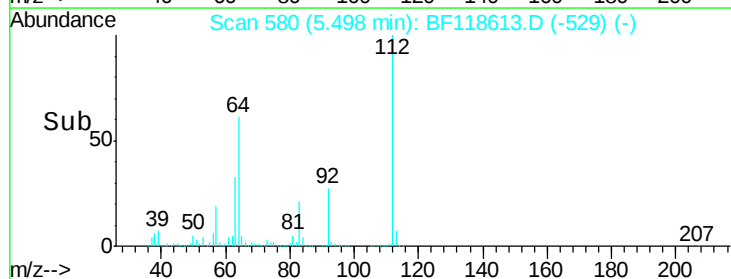
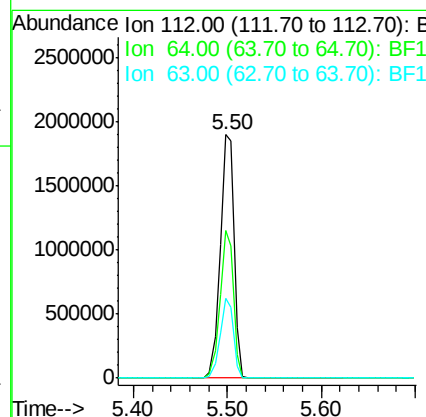
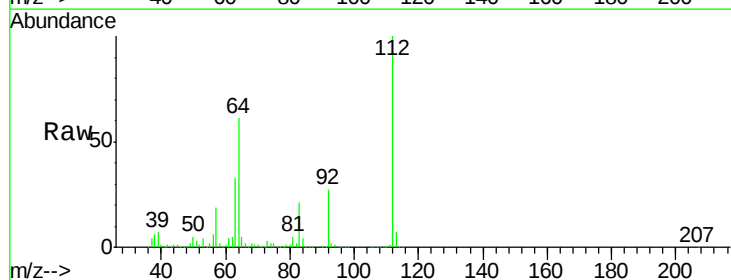
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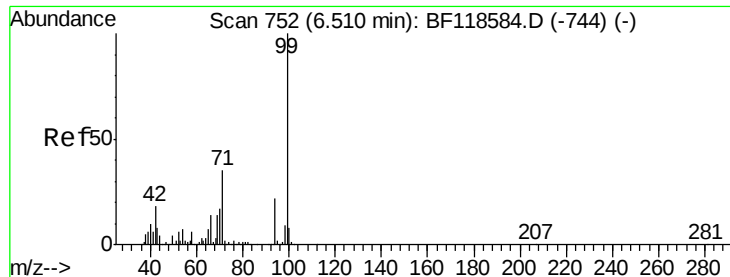


#5

2-Fluorophenol
Concen: 92.121 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.00 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.6	46.6	70.0
63	32.8	25.1	37.7





#7

Phenol-d6

Concen: 89.458 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

ClientSampleId :

QVD-SB-BC-0-5

Tot Ion: 99 Resp: 2490393

Ion Ratio Lower Upper

99 100

42 18.7 14.2 21.2

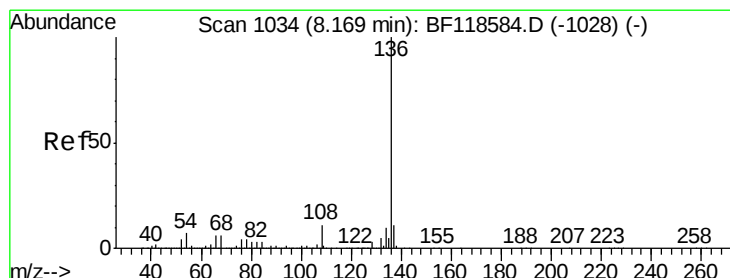
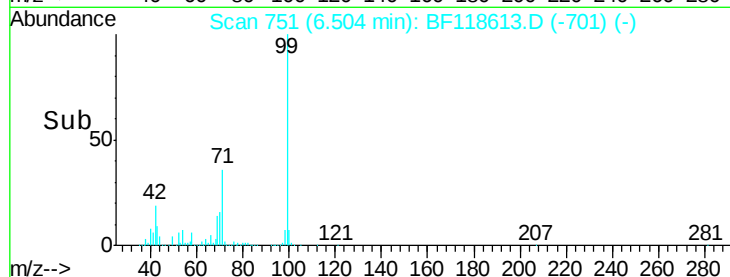
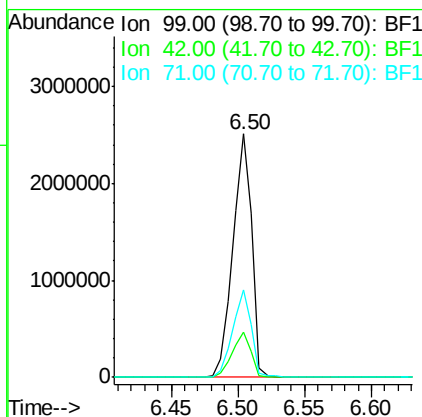
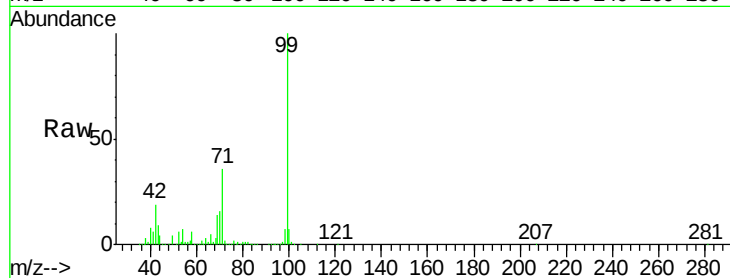
71 36.2 27.8 41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Tgt Ion: 136 Resp: 1335195

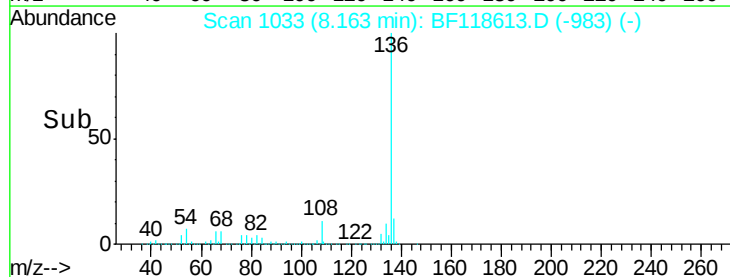
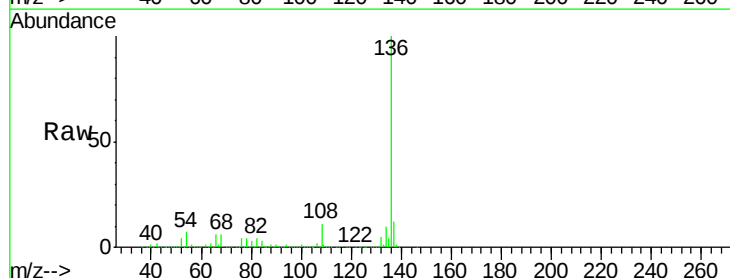
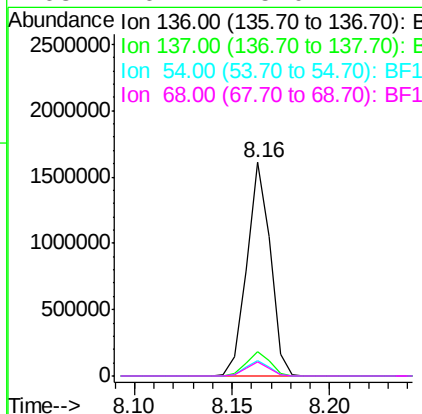
Ion Ratio Lower Upper

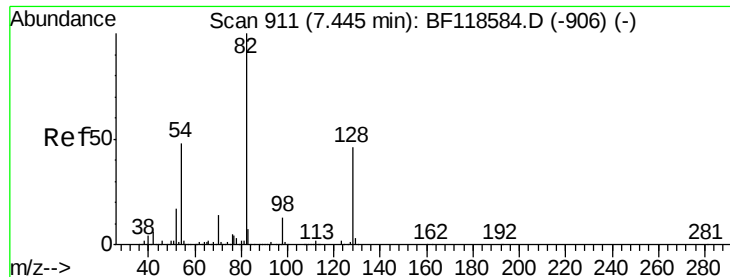
136 100

137 11.6 9.1 13.7

54 7.4 5.8 8.6

68 6.4 5.0 7.4





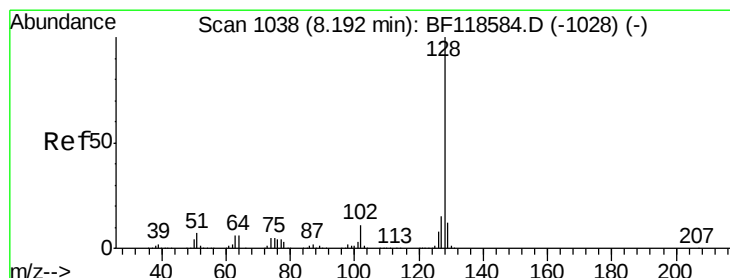
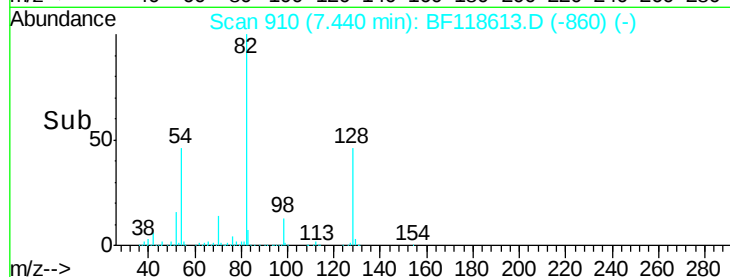
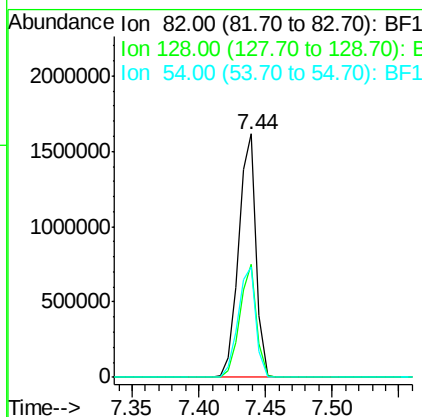
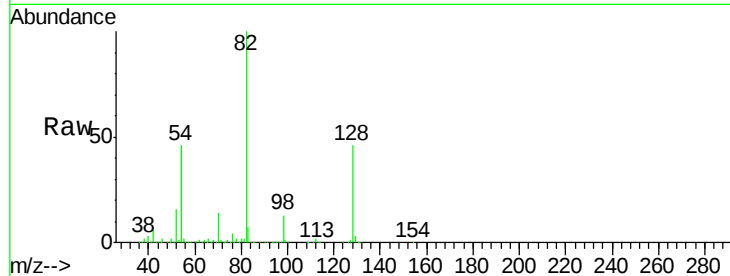
#23
Nitrobenzene-d5
Concen: 61.786 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Instrument :
BNA_F
ClientSampleId :
QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.4	36.6	54.8
54	45.7	38.0	57.0

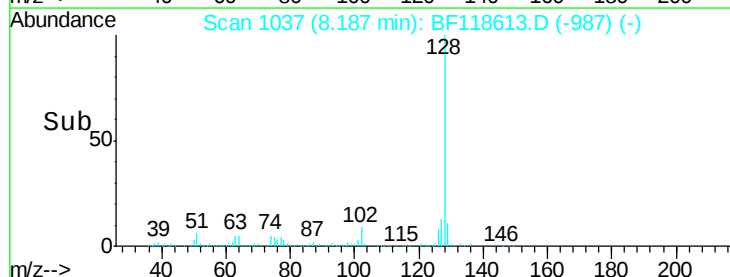
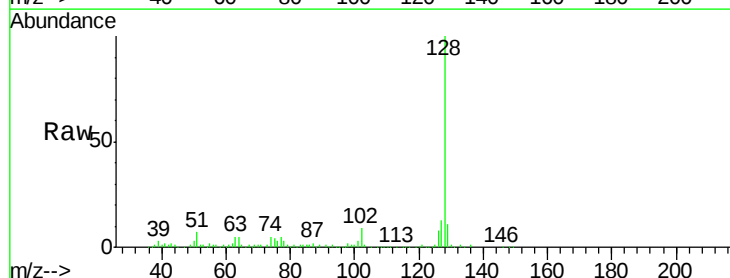
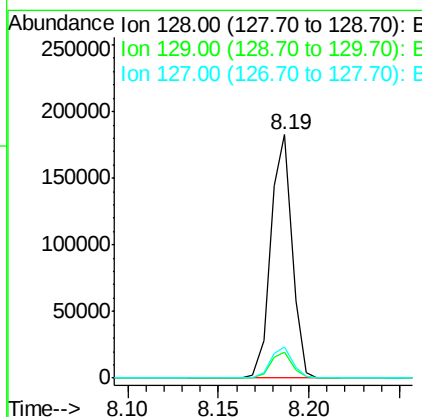
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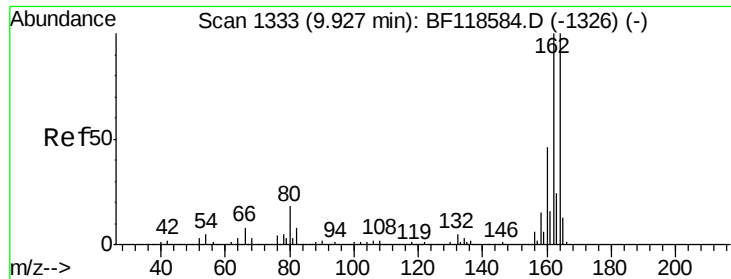
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#31
Naphthalene
Concen: 2.473 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.9	14.9
127	12.6	12.0	18.0





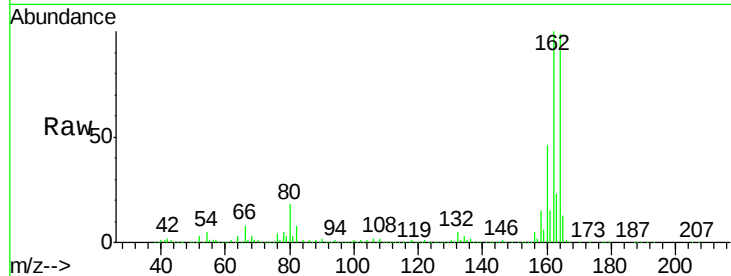
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Instrument :
 BNA_F
 ClientSampleId :
 QVD-SB-BC-0-5

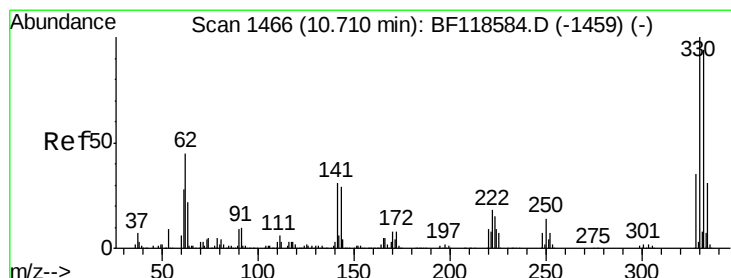
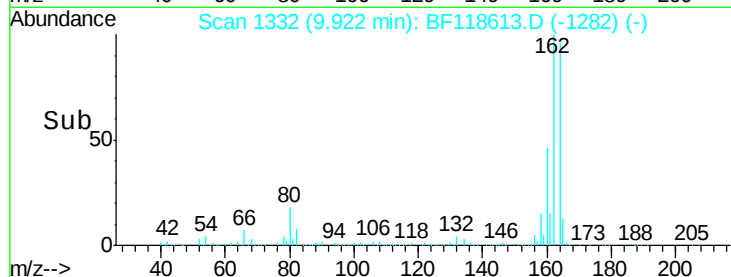
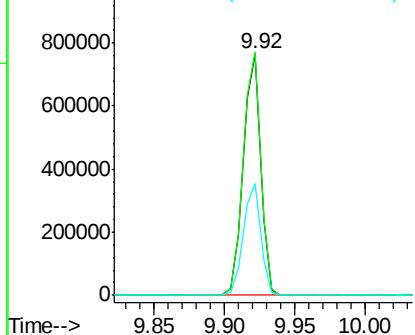
Tot Ion	Ratio	Resp	Lower	Upper
164	100	660614		
162	100.9	80.4	120.6	
160	46.4	36.6	55.0	

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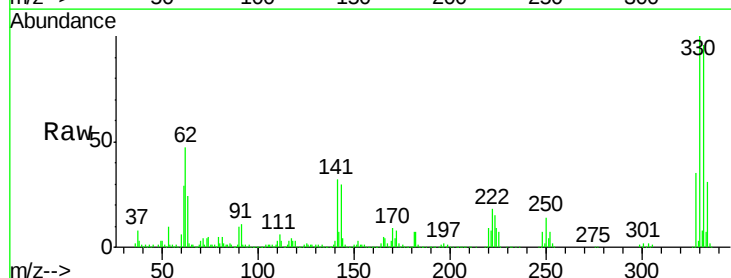


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

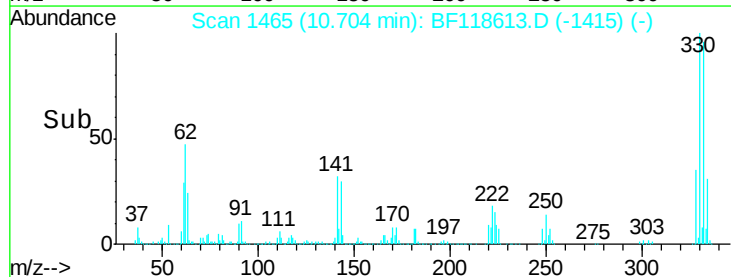
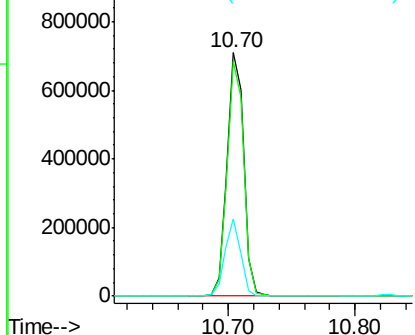


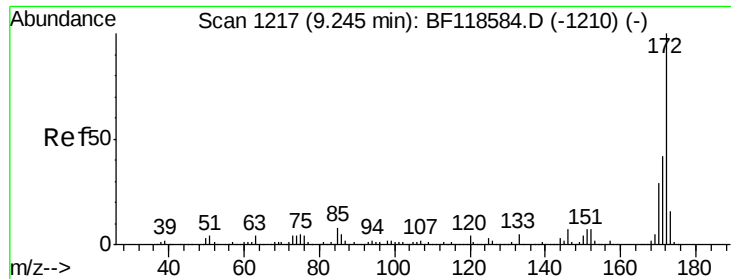
#42
 2,4,6-Tribromophenol
 Concen: 84.127 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	642799		
332	96.5	76.2	114.4	
141	29.9	23.9	35.9	



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





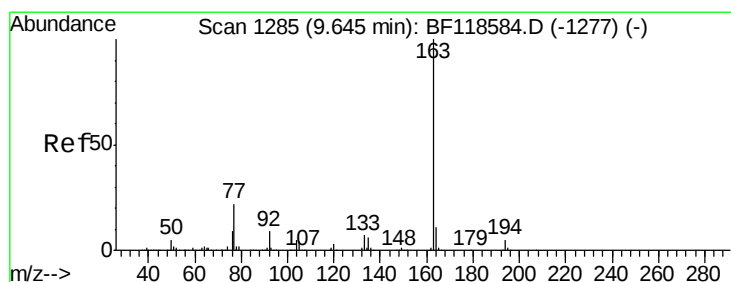
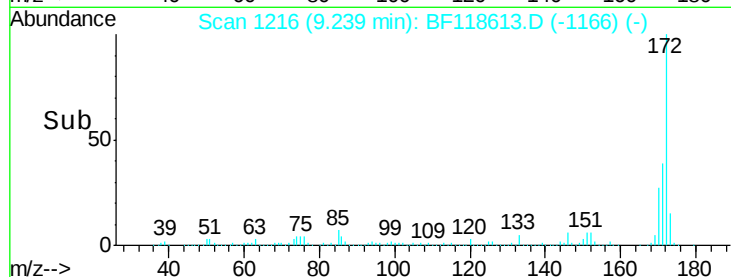
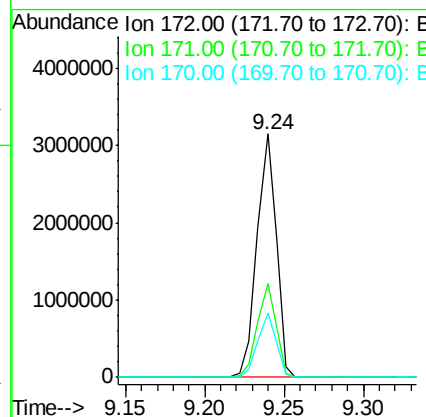
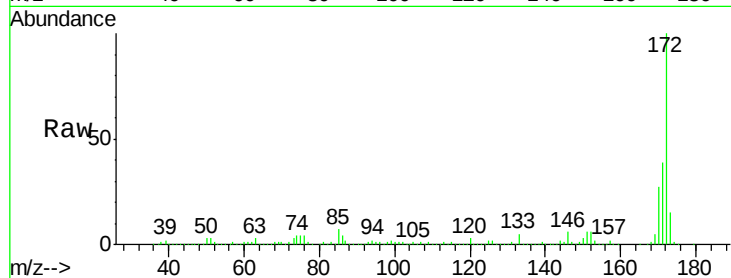
#45
2-Fluorobiphenyl
Concen: 66.262 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Instrument :
BNA_F
ClientSampleId :
QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.7	33.4	50.2
170	26.6	23.2	34.8

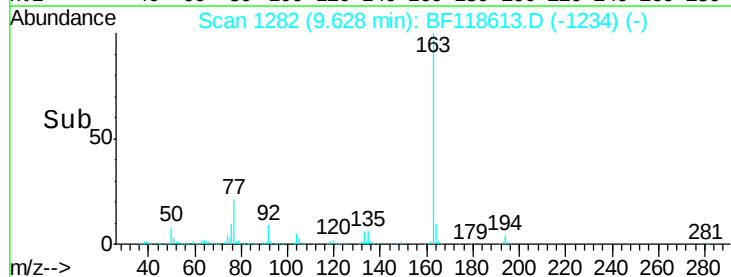
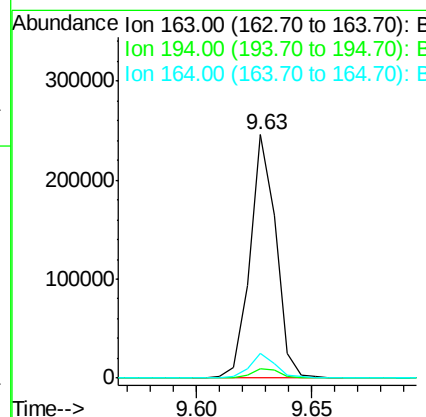
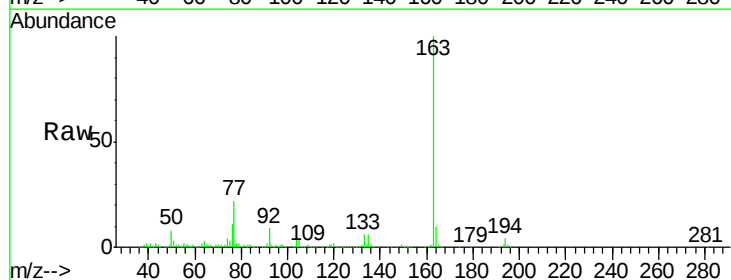
Manual Integrations
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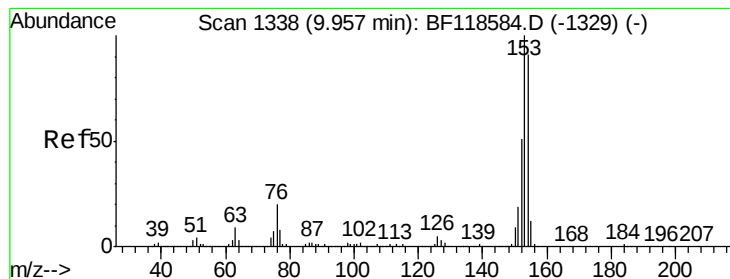
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#50
Dimethylphthalate
Concen: 4.431 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.9	5.9
164	10.1	9.1	13.7





#52

Acenaphthene

Concen: 3.941 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

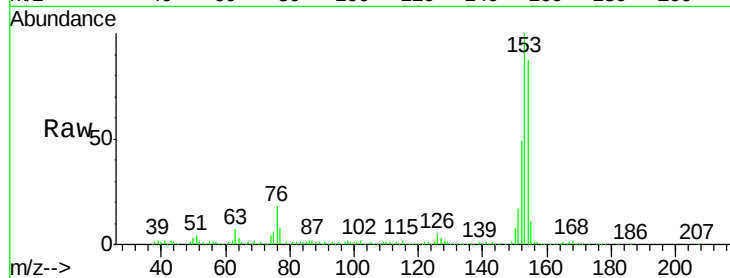
ClientSampleId :

QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.8	87.6	131.4
152	56.1	44.4	66.6

Manual Integrations
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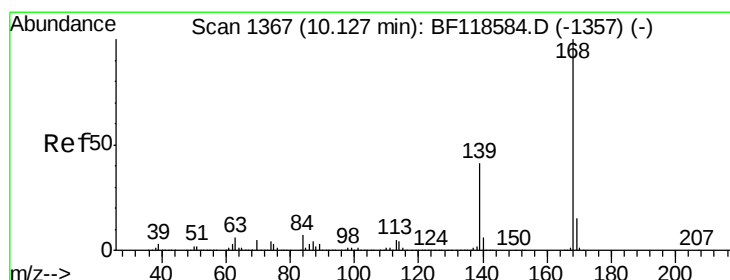
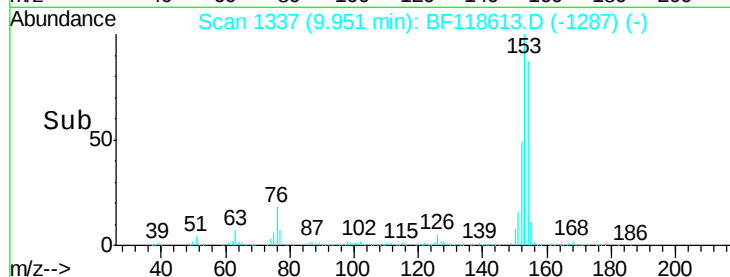
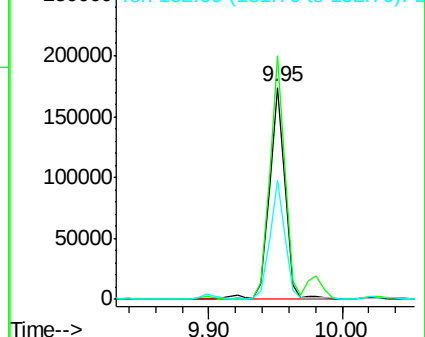


Abundance

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: 3.404 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

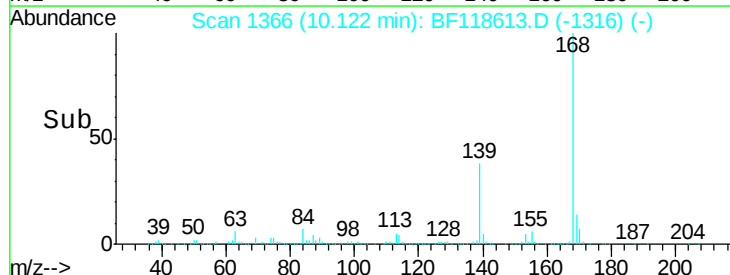
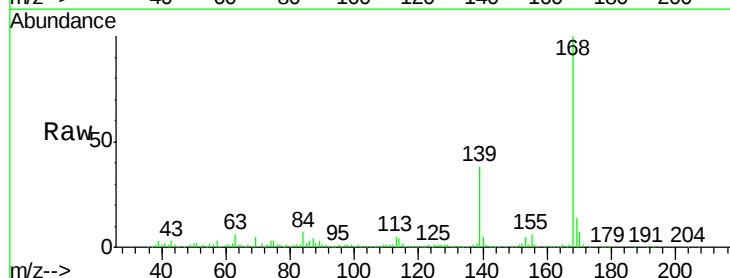
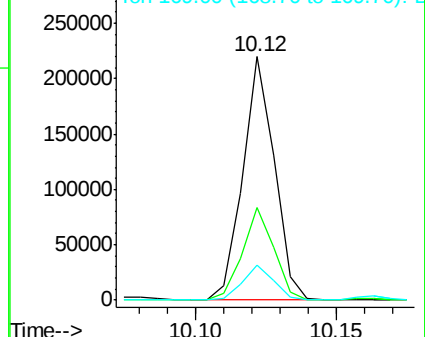
Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.1	32.7	49.1
169	14.4	12.2	18.2

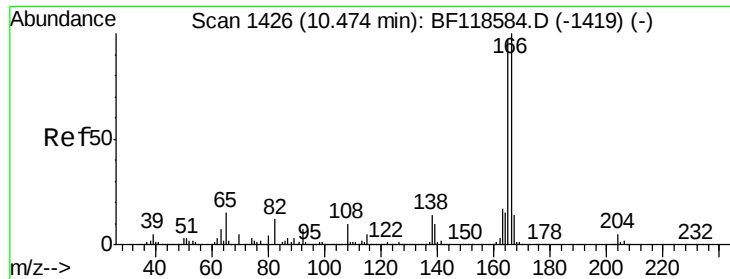
Abundance

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





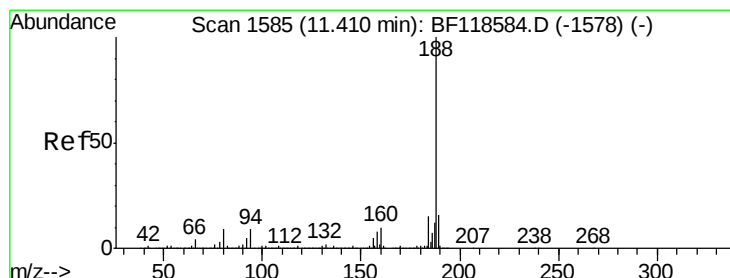
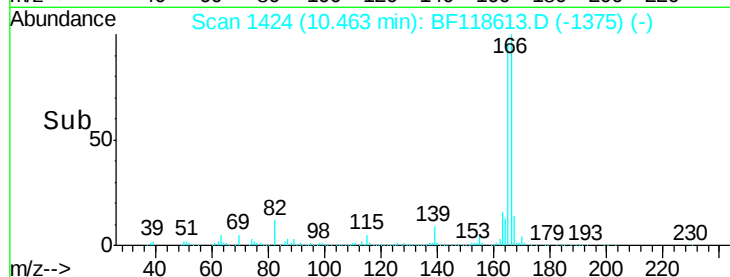
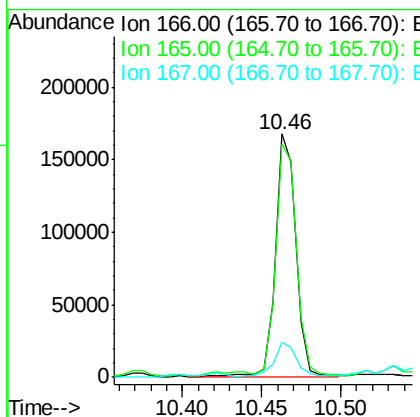
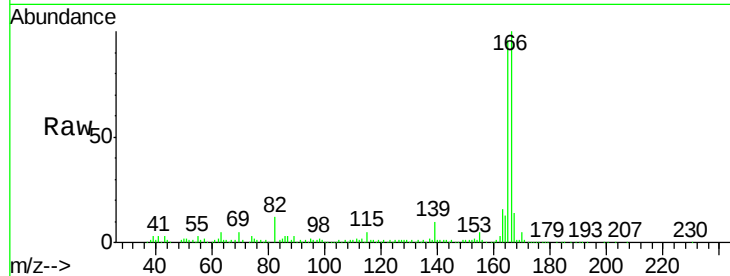
#58
 Fluorene
 Concen: 3.816 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Instrument :
 BNA_F
 ClientSampleId :
 QVD-SB-BC-0-5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		149881		
165	96.0	77.3	115.9		
167	14.4	11.5	17.3		

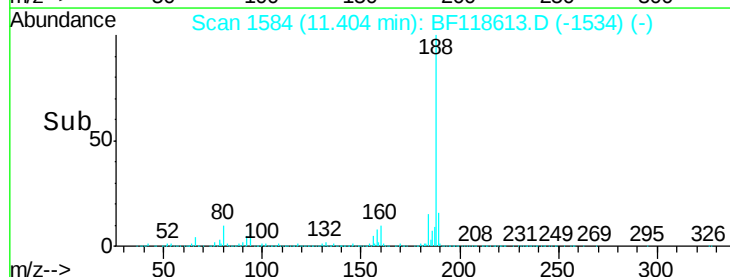
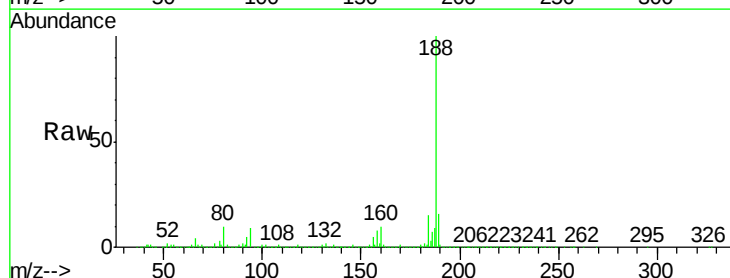
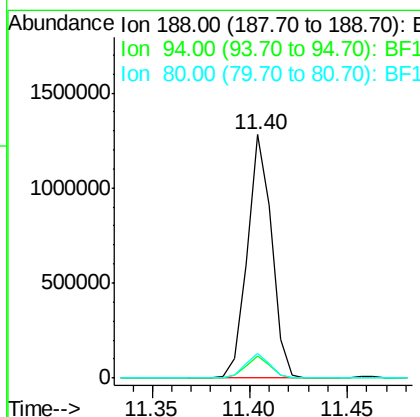
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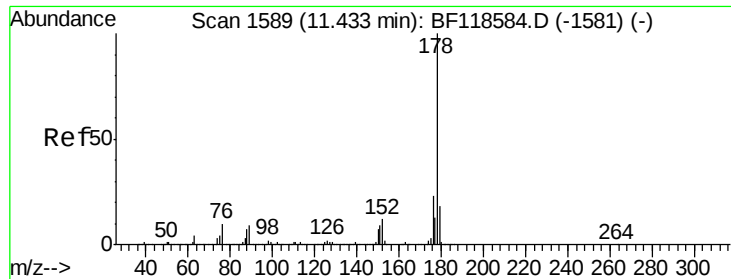
mohammad
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		1097466		
94	9.3	7.1	10.7		
80	10.0	7.5	11.3		





#71

Phenanthrene

Concen: 38.856 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

ClientSampleId :

QVD-SB-BC-0-5

Tot Ion:178 Resp: 2057265

Ion Ratio Lower Upper

178 100

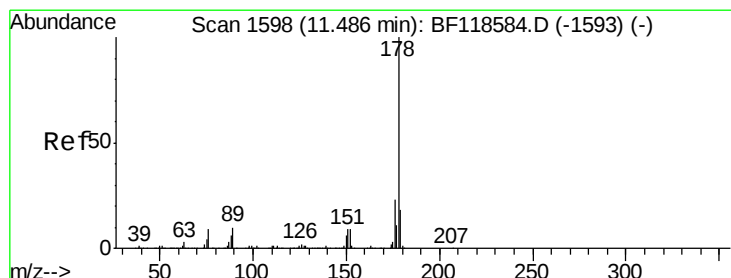
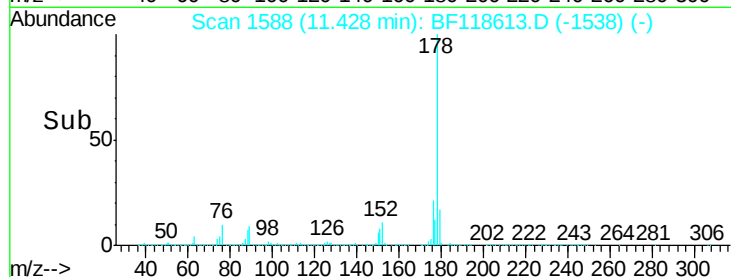
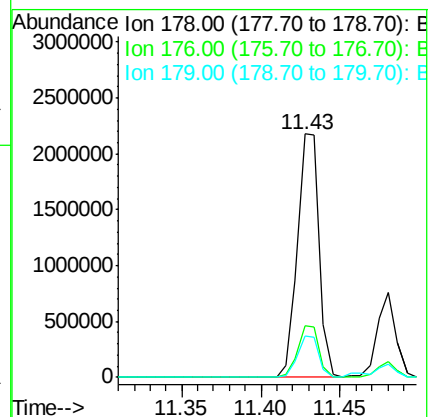
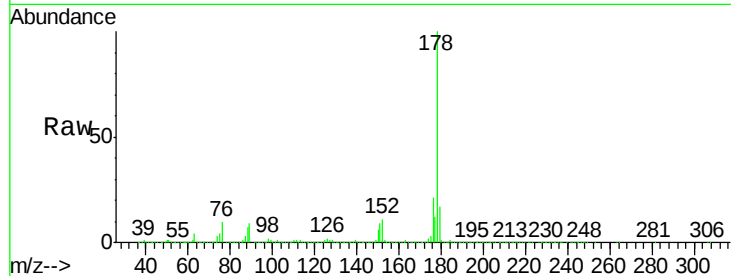
176 21.1 18.6 27.8

179 17.0 14.7 22.1

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#72

Anthracene

Concen: 11.817 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

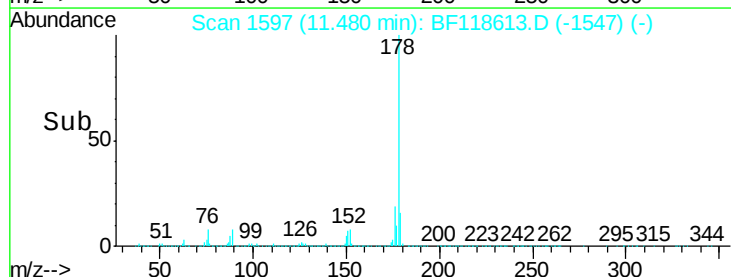
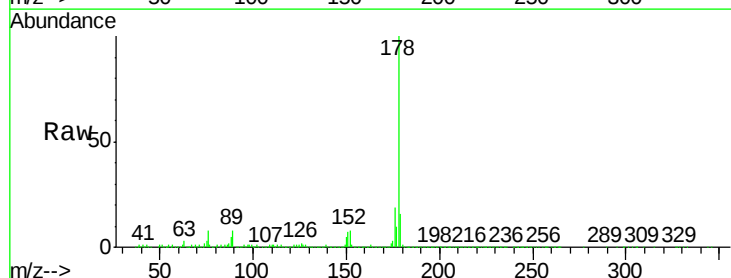
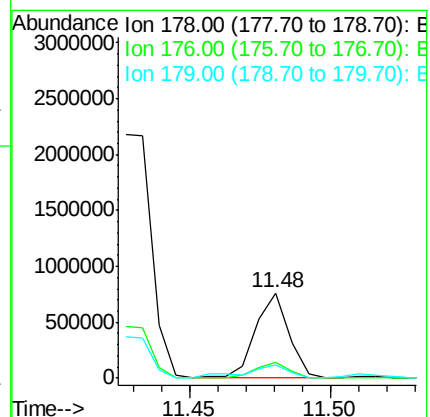
Tgt Ion:178 Resp: 619118

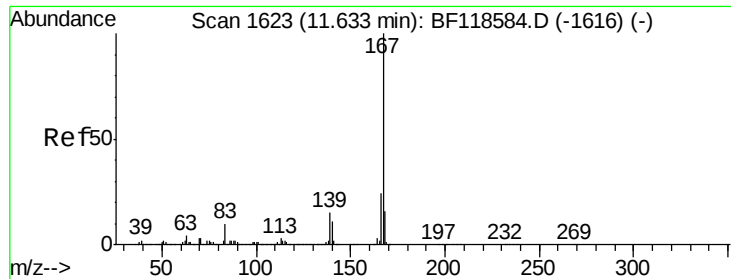
Ion Ratio Lower Upper

178 100

176 18.9 18.0 27.0

179 15.9 14.7 22.1





#73

Carbazole

Concen: 5.891 ng

RT: 11.63 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

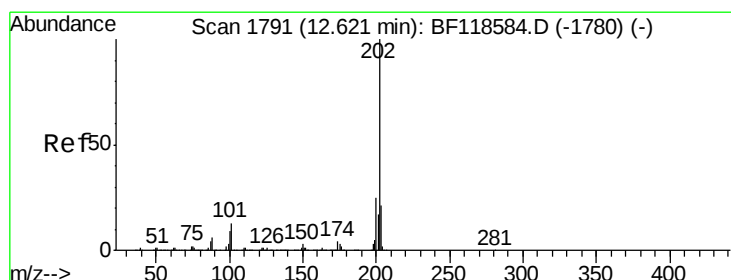
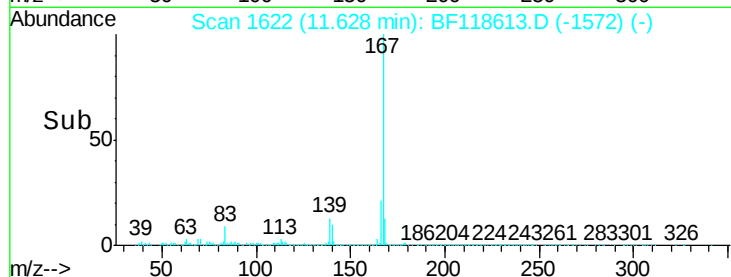
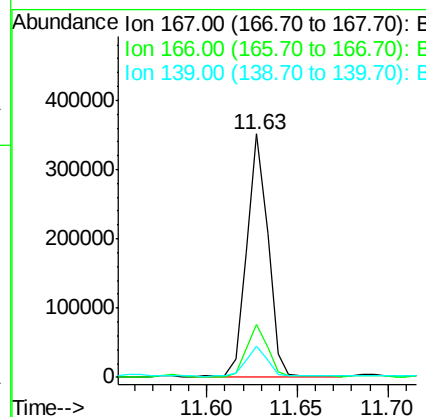
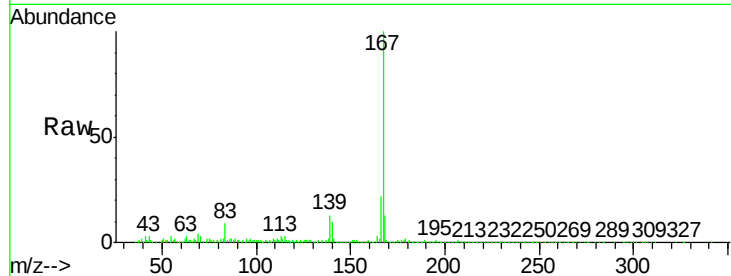
ClientSampleId :

QVD-SB-BC-0-5

Tot Ion:	167	Resp:	283085
Ion Ratio	Lower	Upper	
167	100		
166	21.7	19.4	29.2
139	13.0	11.7	17.5

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#75

Fluoranthene

Concen: 48.580 ng

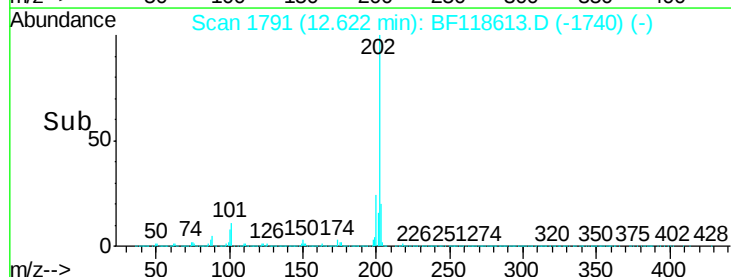
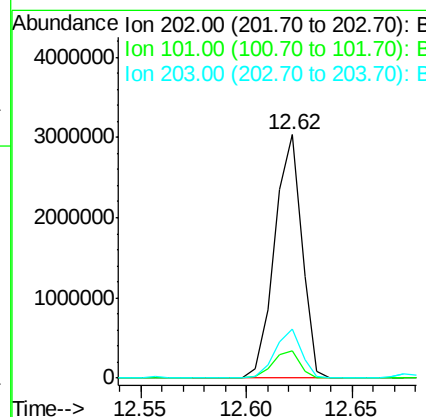
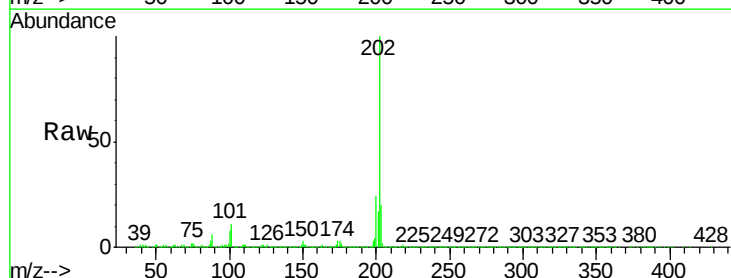
RT: 12.62 min Scan# 1791

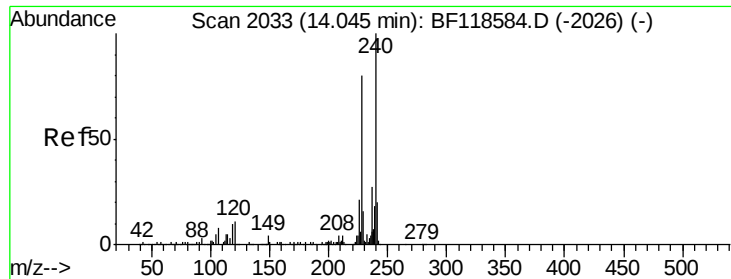
Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Tgt Ion:	202	Resp:	2712847
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	32.5
203	20.1	0.8	40.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

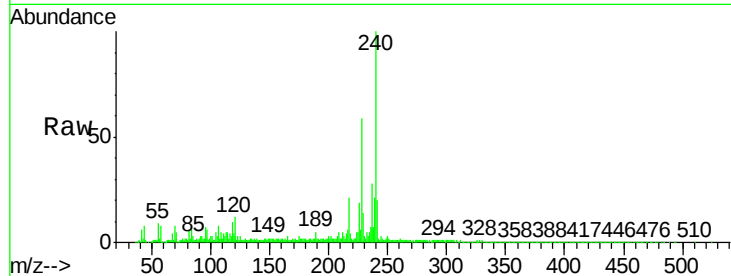
ClientSampleId :

QVD-SB-BC-0-5

Tot Ion:	240	Resp:	898687
Ion Ratio	Lower	Upper	
240	100		
120	12.4	8.9	13.3
236	27.6	21.5	32.3

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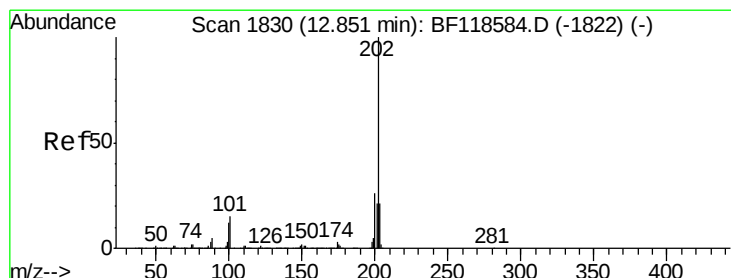
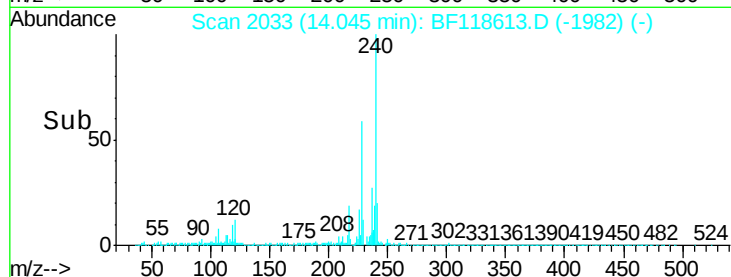
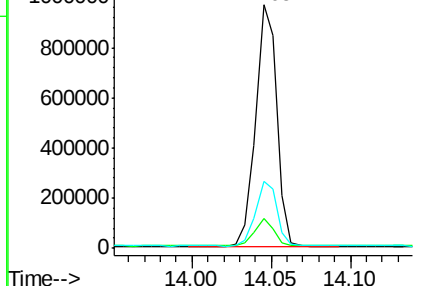
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 38.099 ng

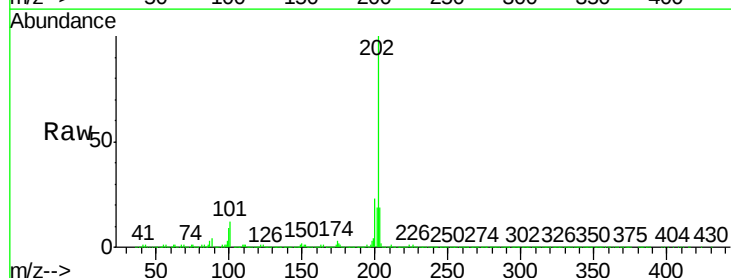
RT: 12.85 min Scan# 1830

Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

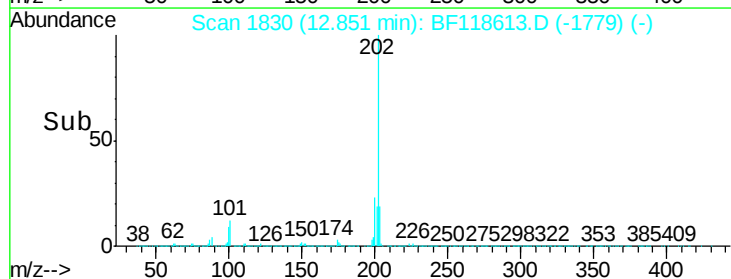
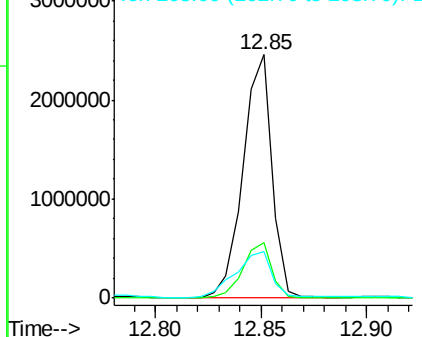
Tgt Ion:	202	Resp:	2324512
Ion Ratio	Lower	Upper	
202	100		
200	22.9	20.6	31.0
203	19.2	16.8	25.2

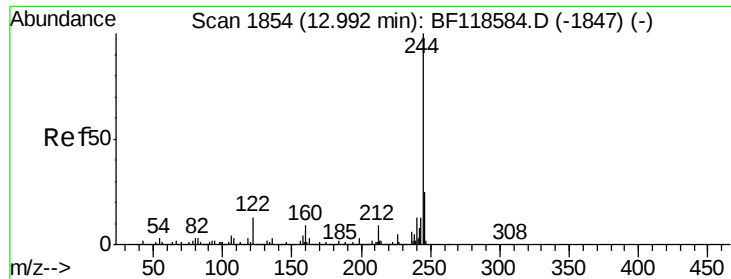


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 69.570 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

ClientSampleId :

QVD-SB-BC-0-5

Tot Ion:244 Resp: 2866540

Ion Ratio Lower Upper

244 100

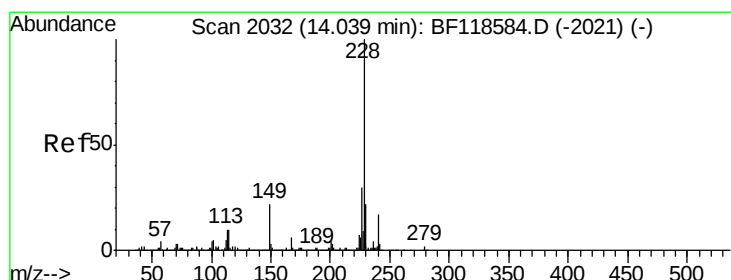
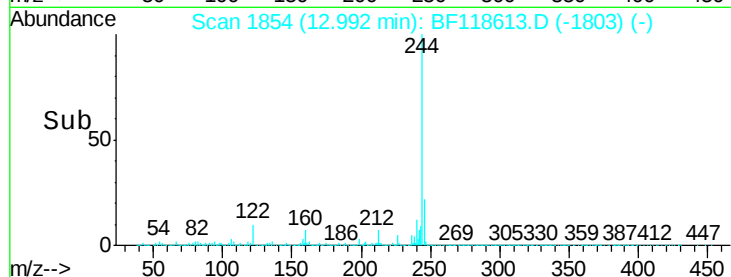
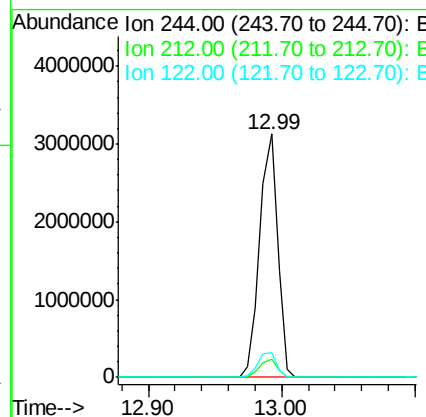
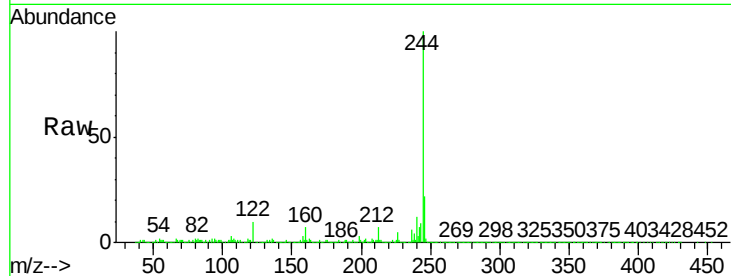
212 7.4 7.0 10.4

122 10.3 10.7 16.1#

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#81

Benzo(a)anthracene

Concen: 26.085 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

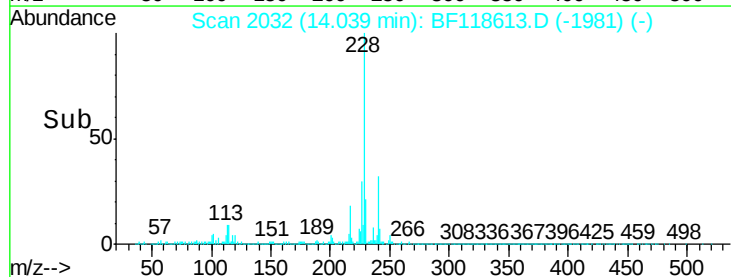
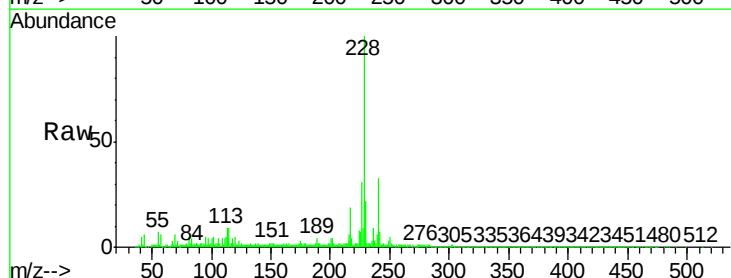
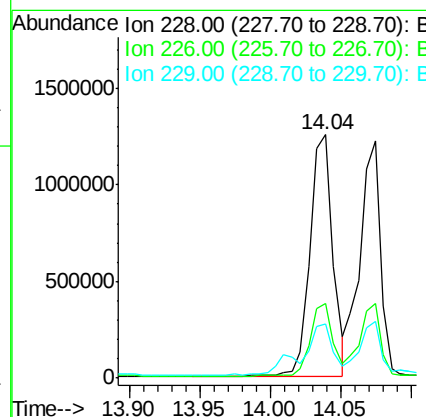
Tgt Ion:228 Resp: 1410184

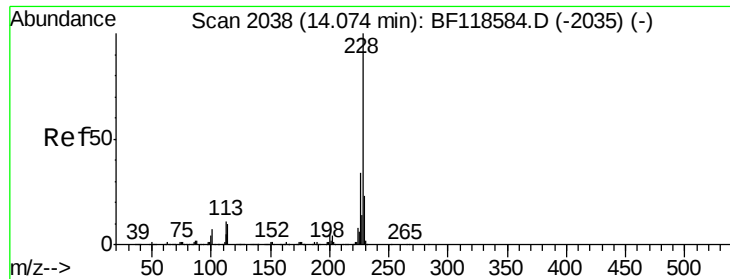
Ion Ratio Lower Upper

228 100

226 30.8 24.1 36.1

229 22.1 17.6 26.4





#83

Chrysene

Concen: 24.094 ng

RT: 14.07 min Scan# 2038

Delta R.T. 0.00 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

ClientSampleId :

QVD-SB-BC-0-5

Tot Ion:228 Resp: 1248366

Ion Ratio Lower Upper

228 100

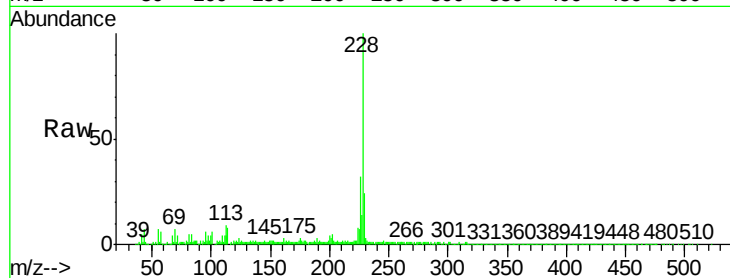
226 31.6 27.4 41.0

229 24.0 18.3 27.5

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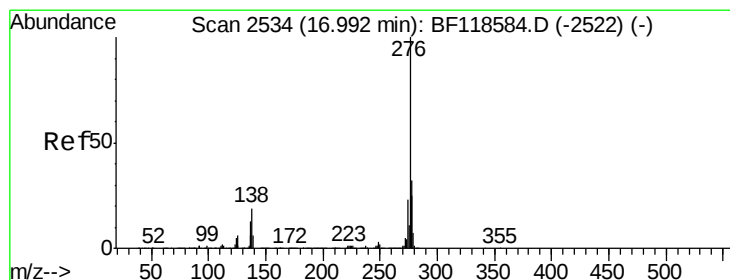
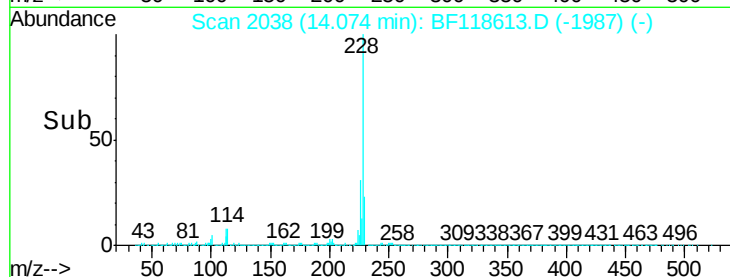
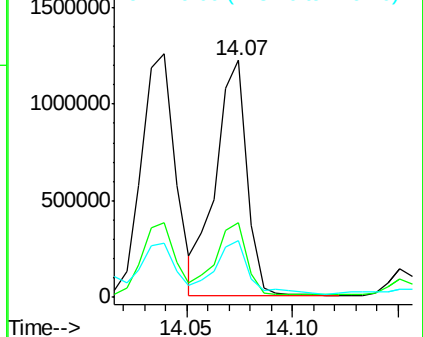
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 13.843 ng

RT: 17.02 min Scan# 2539

Delta R.T. 0.03 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

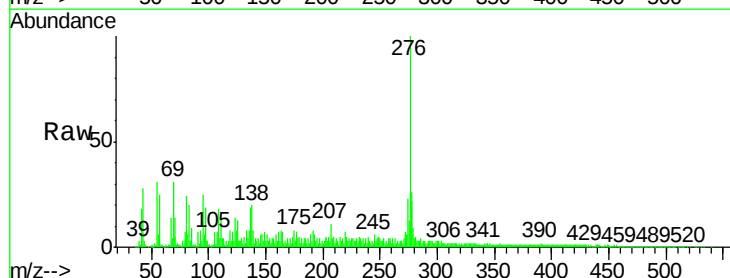
Tgt Ion:276 Resp: 623187

Ion Ratio Lower Upper

276 100

138 19.8 17.2 25.8

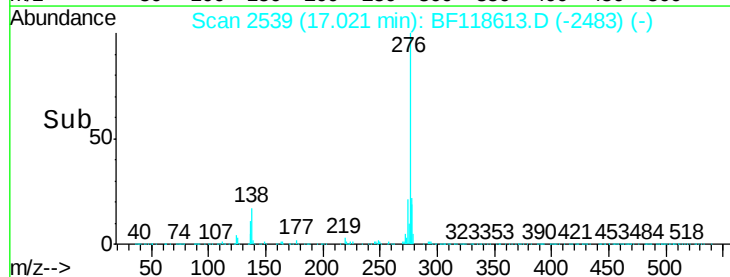
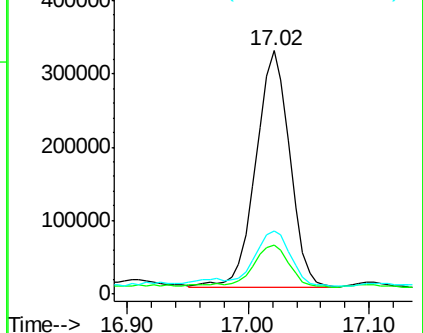
277 24.6 20.5 30.7

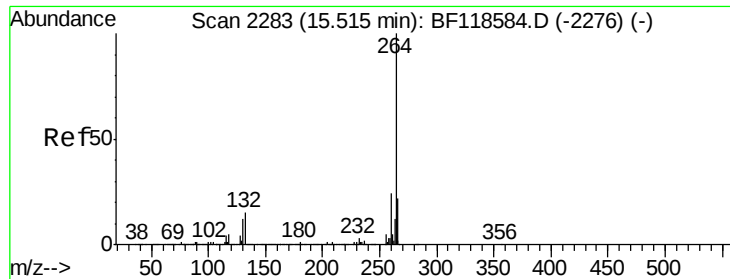


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2286

Delta R.T. 0.02 min

Lab File: BF118613.D

Acq: 21 Jan 2020 1:31

Instrument :

BNA_F

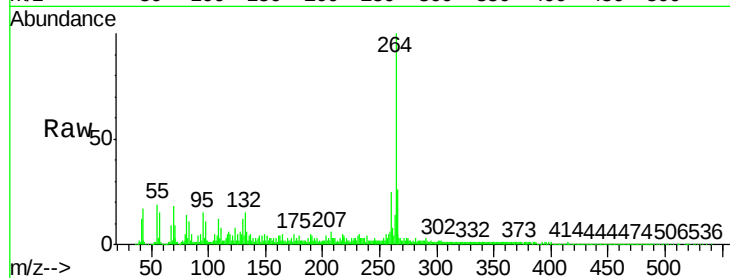
ClientSampleId :

QVD-SB-BC-0-5

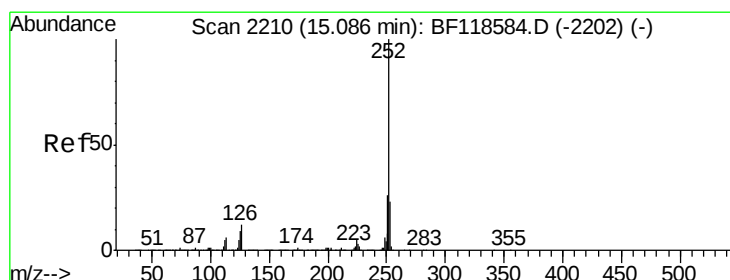
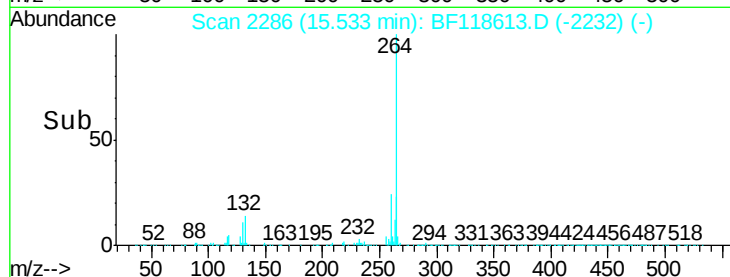
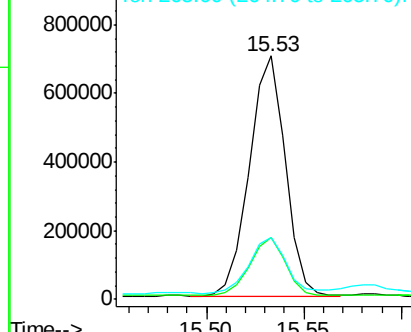
Tot Ion:	264	Resp:	890420
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.6	29.4
265	25.5	17.7	26.5

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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: 29.837 ng m

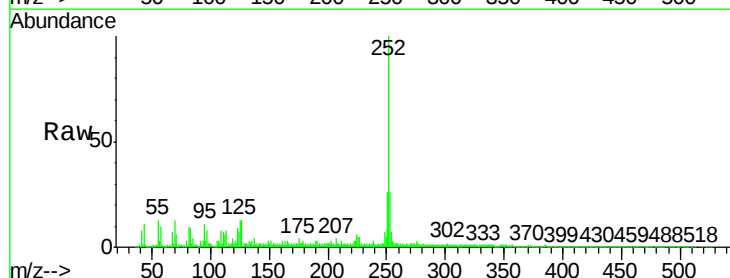
RT: 15.10 min Scan# 2212

Delta R.T. 0.01 min

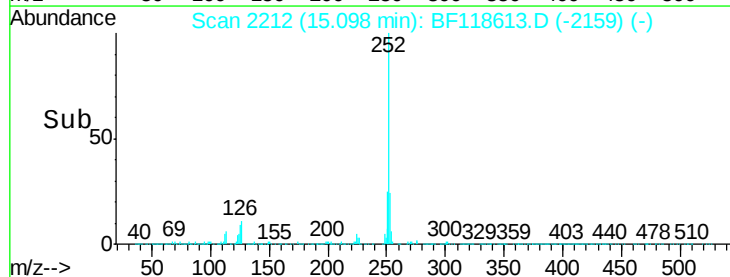
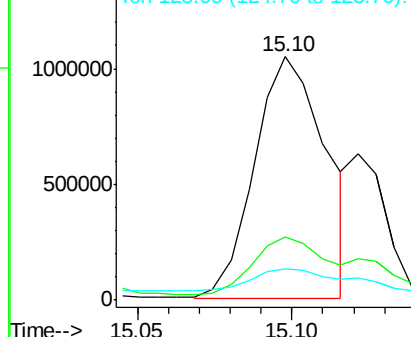
Lab File: BF118613.D

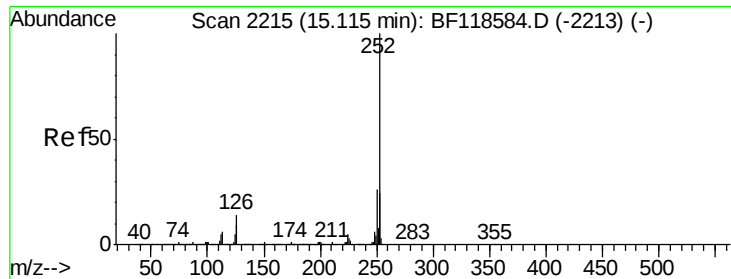
Acq: 21 Jan 2020 1:31

Tgt Ion:	252	Resp:	1669984
Ion Ratio	Lower	Upper	
252	100		
253	26.1	18.7	28.1
125	13.0	7.3	10.9#



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





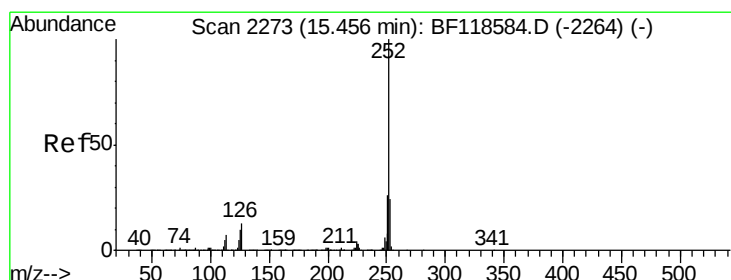
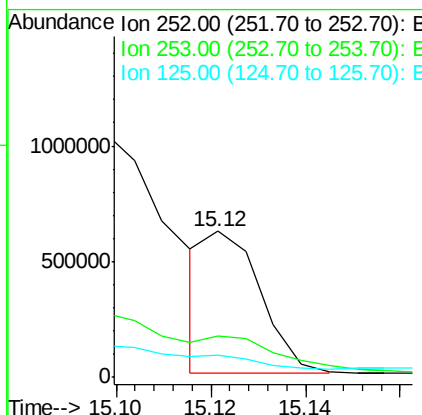
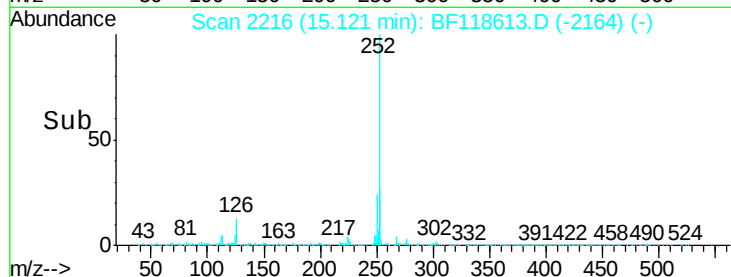
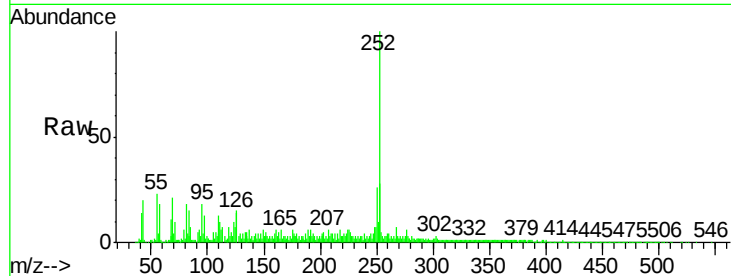
#89
Benzo(k)fluoranthene
Concen: 9.515 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.01 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Instrument :
BNA_F
ClientSampleId :
QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.0	28.4
125	15.2	7.6	11.4

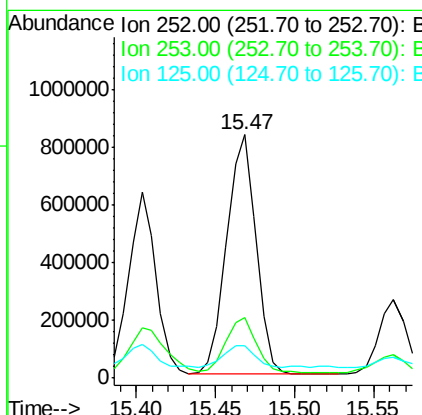
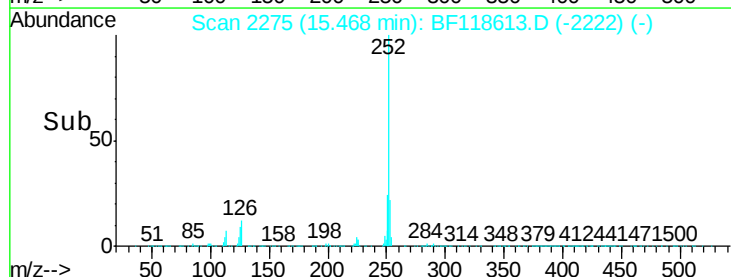
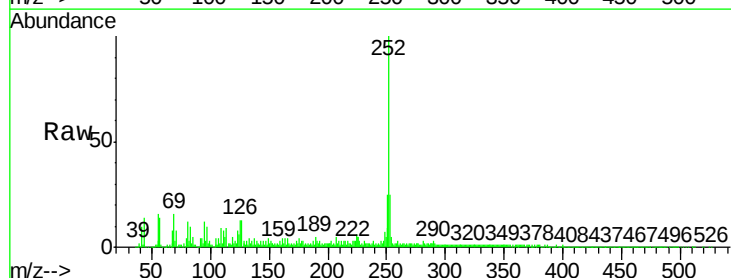
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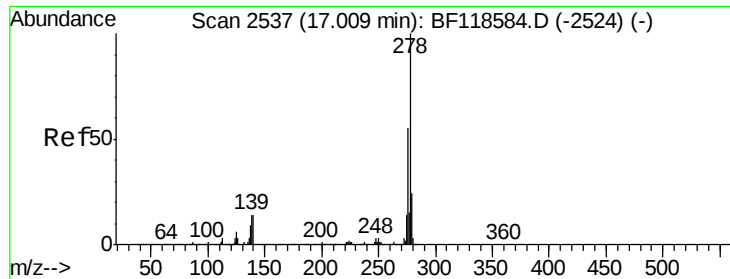
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#90
Benzo(a)pyrene
Concen: 22.125 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF118613.D
Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.8	28.2
125	13.3	7.8	11.6





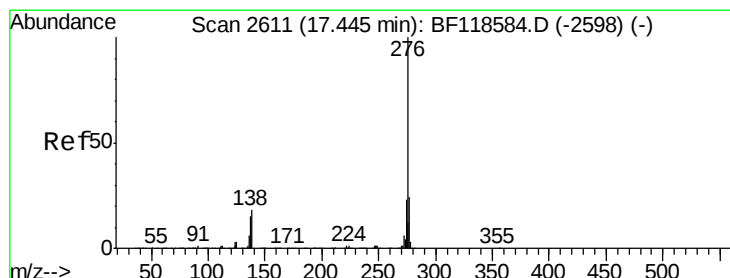
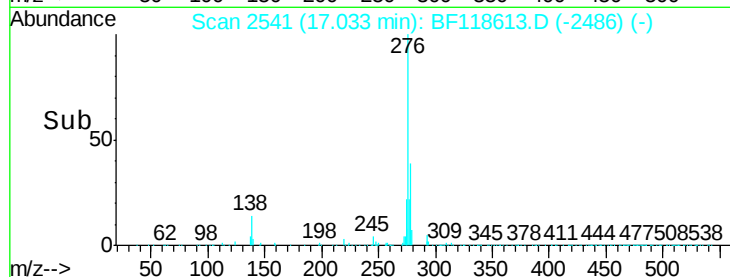
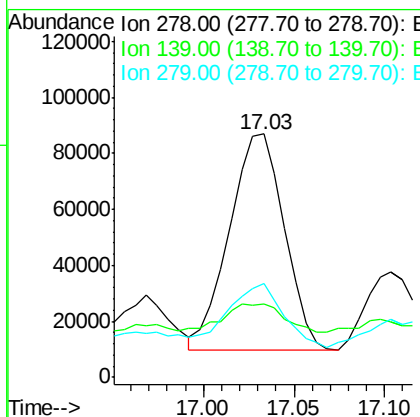
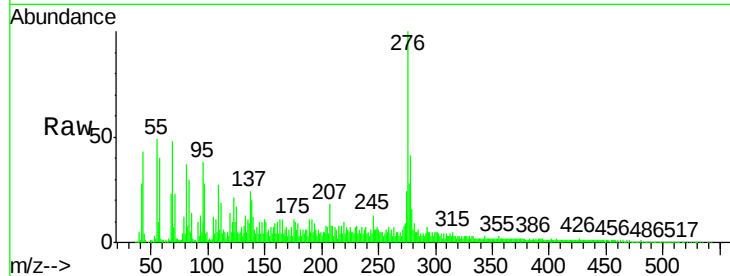
#91
 Dibenzo(a,h)anthracene
 Concen: 3.828 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. 0.02 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Instrument :
 BNA_F
 ClientSampleId :
 QVD-SB-BC-0-5

Tot Ion	Ratio	Lower	Upper
278	100		
139	30.1	11.4	17.0#
279	38.6	19.0	28.6#

Manual Integrations
 APPROVED

mohammad
 1/21/2020 2:26:31 PM



#92
 Benzo(g,h,i)perylene
 Concen: 13.313 ng
 RT: 17.47 min Scan# 2616
 Delta R.T. 0.03 min
 Lab File: BF118613.D
 Acq: 21 Jan 2020 1:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	18.9	28.3
138	19.9	14.4	21.6

