

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100219\
 Data File : BF117302.D
 Acq On : 2 Oct 2019 16:26
 Operator : JU
 Sample : K5148-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-100119

Manual Integrations
 APPROVED

mohammad
 10/4/2019 8:17:30 AM

Quant Time: Oct 03 02:14:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	22795	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	94304	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	52313	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	88278	20.00	ng	0.00
76) Chrysene-d12	13.98	240	69691	20.00	ng	0.00
87) Perylene-d12	15.44	264	56495	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	86300	59.11	ng	-0.01
7) Phenol-d6	6.45	99	114421	60.64	ng	0.00
23) Nitrobenzene-d5	7.37	82	67808	37.78	ng	-0.02
42) 2,4,6-Tribromophenol	10.64	330	25805	59.02	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	137364	41.06	ng	-0.01
79) Terphenyl-d14	12.92	244	149096	39.99	ng	0.00

Target Compounds

						Qvalue
38) 1-Methylnaphthalene	8.90	142	6669	2.331	ng	# 90
50) Dimethylphthalate	9.56	163	20631	5.570	ng	# 99
52) Acenaphthene	9.87	154	8887	3.090	ng	95
55) Dibenzofuran	10.05	168	8506	2.005	ng	# 96
58) Fluorene	10.39	166	15635	4.574	ng	97
71) Phenanthrene	11.36	178	116498	23.234	ng	99
72) Anthracene	11.41	178	35504	6.936	ng	97
73) Carbazole	11.57	167	10910	2.245	ng	# 93
75) Fluoranthene	12.55	202	165691	32.160	ng	97
78) Pyrene	12.78	202	158008	27.021	ng	99
81) Benzo(a)anthracene	13.97	228	71426	15.340	ng	97
83) Chrysene	14.00	228	58451	12.871	ng	97
86) Indeno(1,2,3-cd)pyrene	16.89	276	23133	6.982	ng	# 92
88) Benzo(b)fluoranthene	15.02	252	62080m	18.141	ng	
89) Benzo(k)fluoranthene	15.04	252	20961m	6.466	ng	
90) Benzo(a)pyrene	15.38	252	46310	15.421	ng	# 95
91) Dibenzo(a,h)anthracene	16.89	278	5825	2.435	ng	# 58
92) Benzo(g,h,i)perylene	17.34	276	23531	9.871	ng	97

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

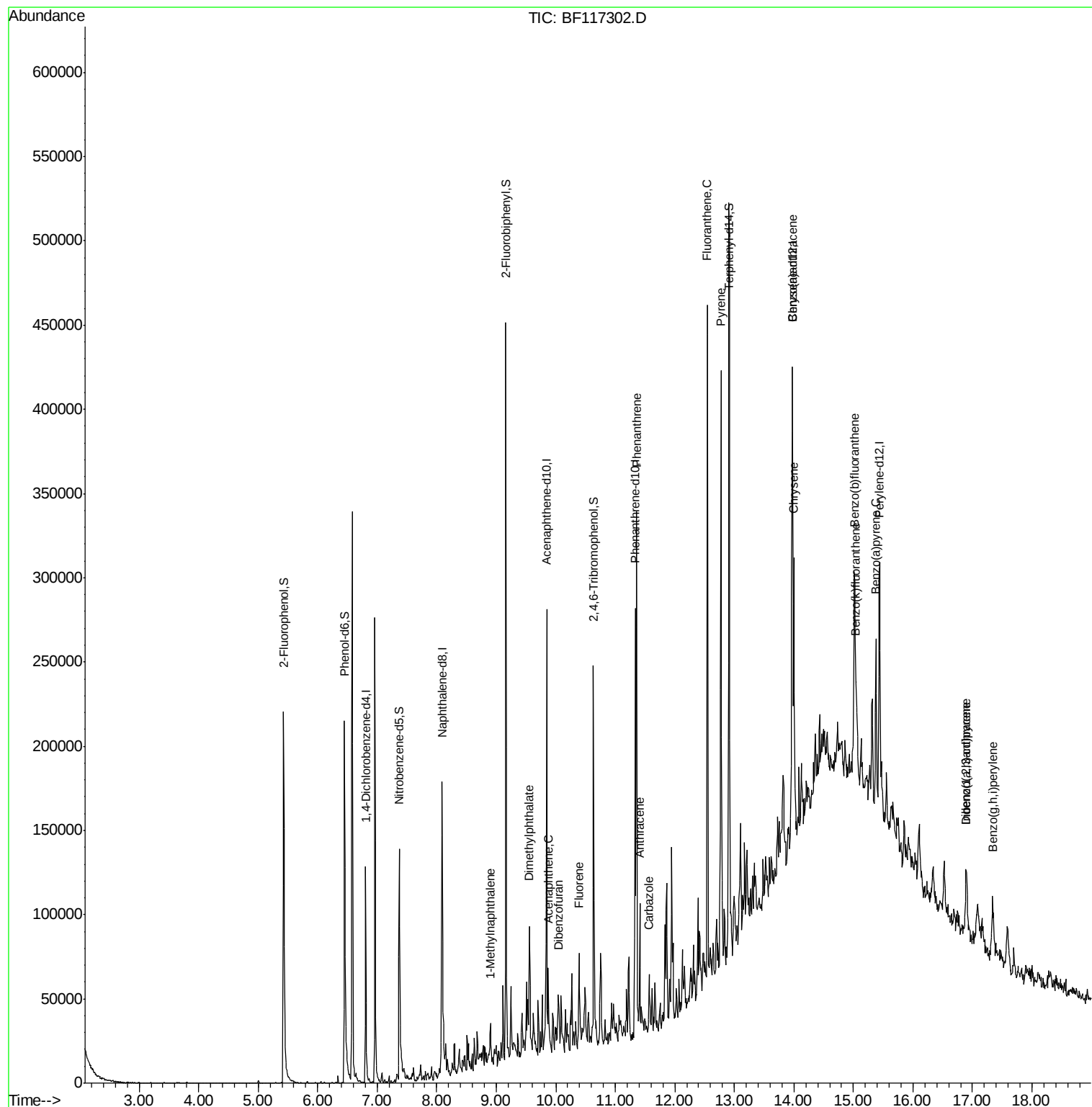
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100219\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

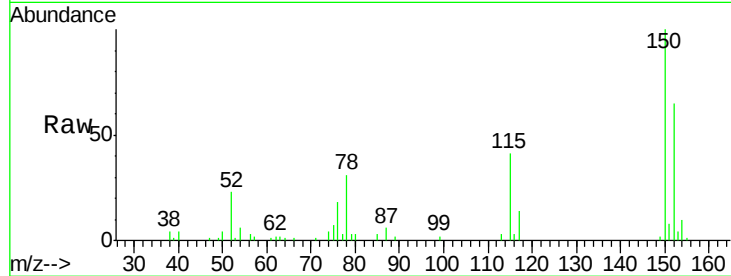
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.02 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

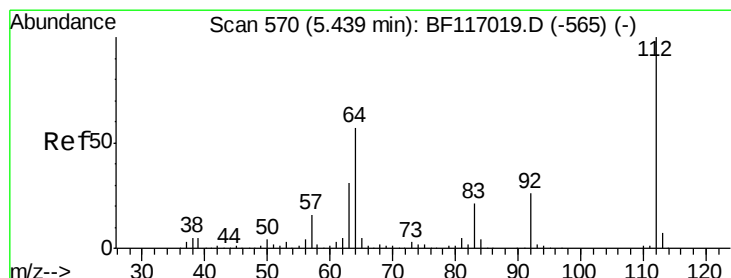
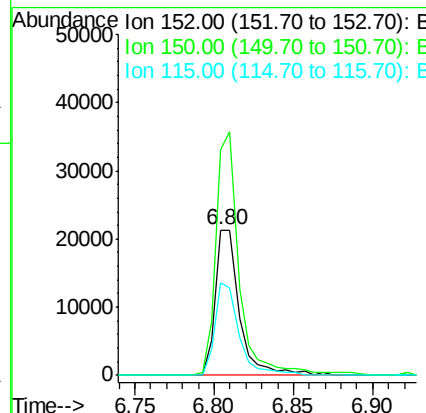
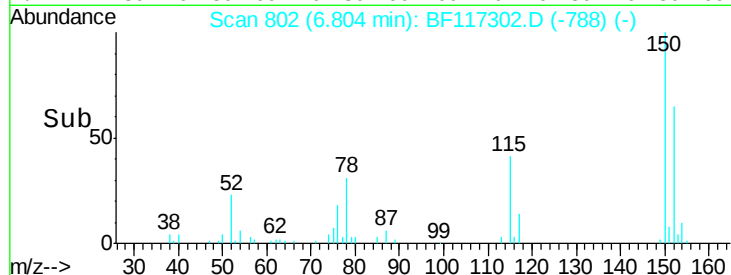
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	127.5	191.3
115	63.5	55.0	82.4

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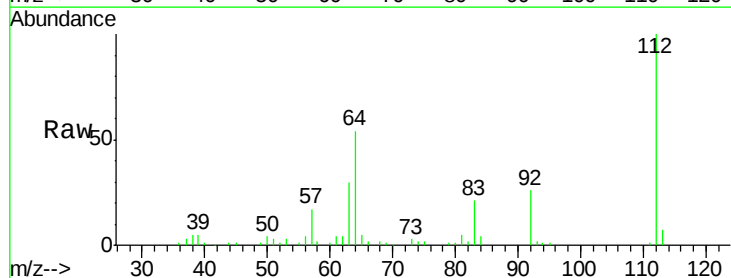
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



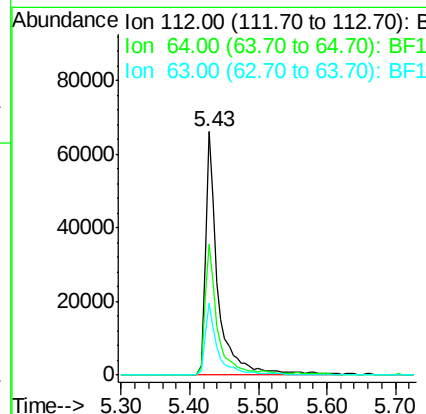
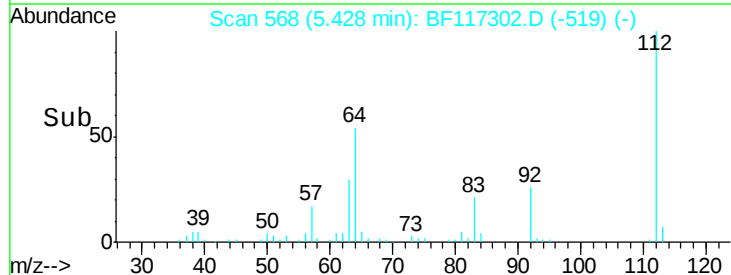
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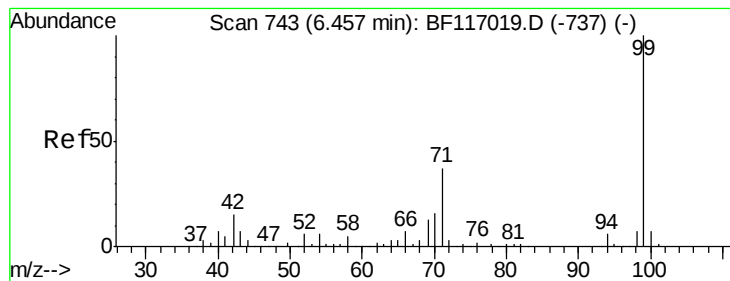
2-Fluorophenol
Concen: 59.108 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	45.7	68.5
63	29.9	24.9	37.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 60.639 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Instrument :

BNA_F

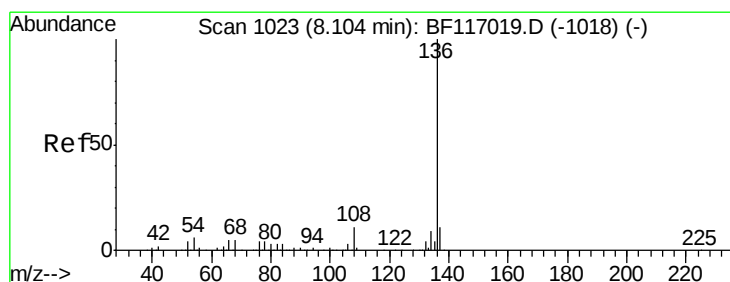
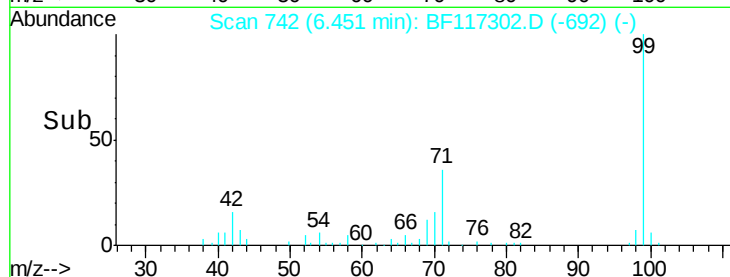
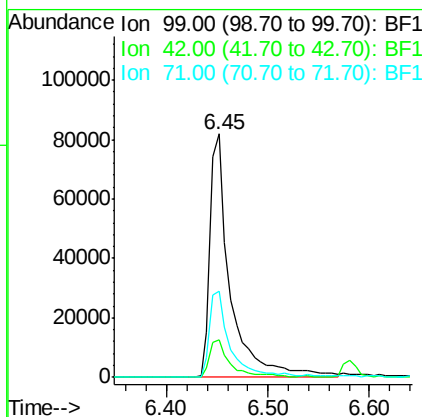
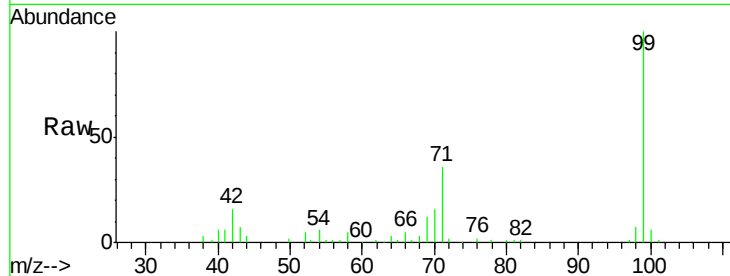
ClientSampled :

OR-02-100119

Tot Ion:	99	Resp:	114421
Ion Ratio	Lower	Upper	
99	100		
42	15.6	12.2	18.2
71	35.5	29.8	44.8

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#21

Naphthalene-d8

Concen: 20.000 ng

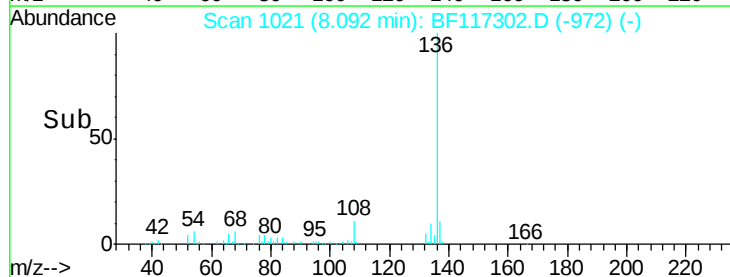
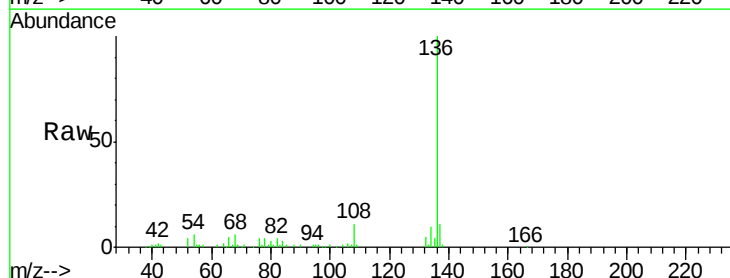
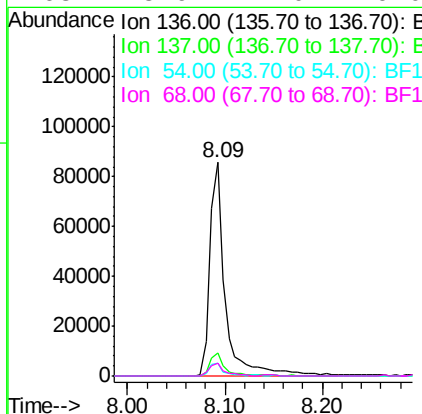
RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Tgt Ion:	136	Resp:	94304
Ion Ratio	Lower	Upper	
136	100		
137	10.7	9.0	13.4
54	5.9	4.5	6.7
68	5.9	4.0	6.0





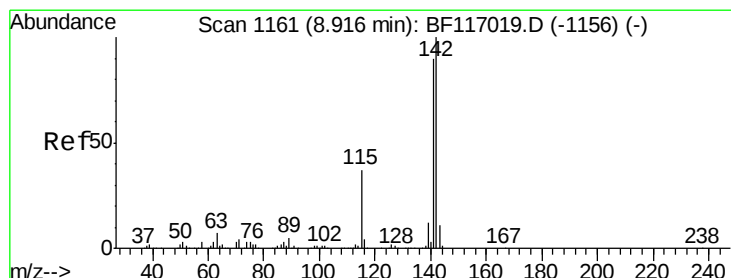
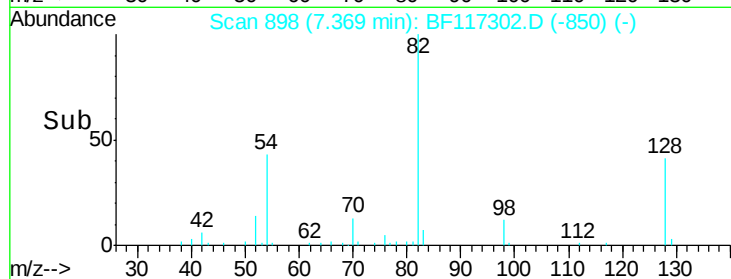
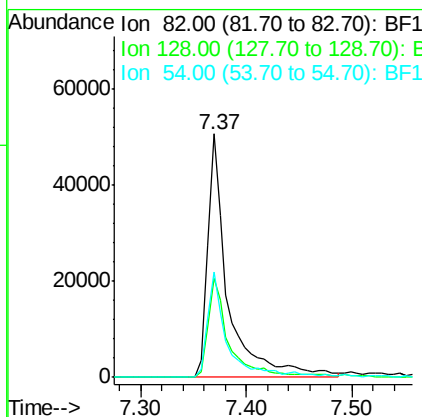
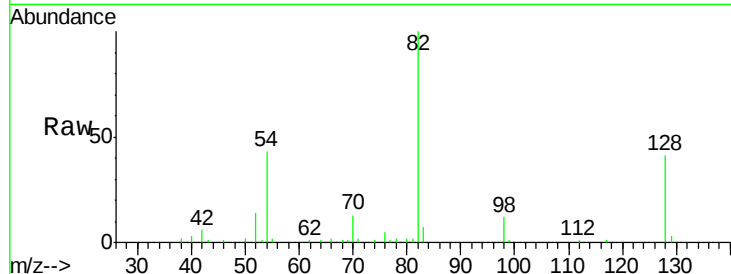
#23
 Nitrobenzene-d5
 Concen: 37.780 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.02 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-100119

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.3	48.5
54	43.1	33.3	49.9

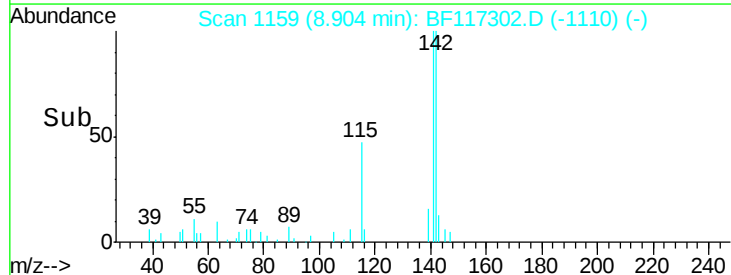
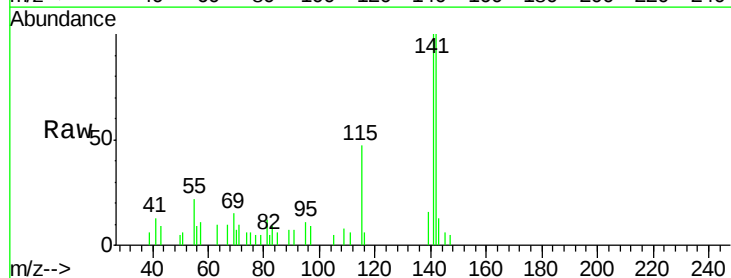
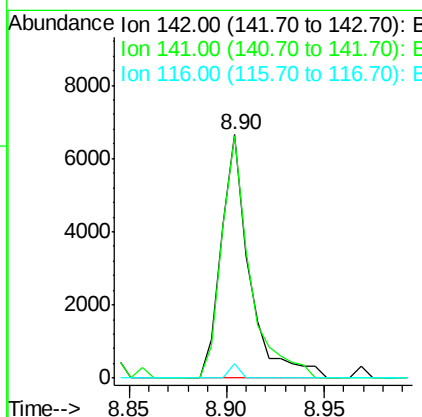
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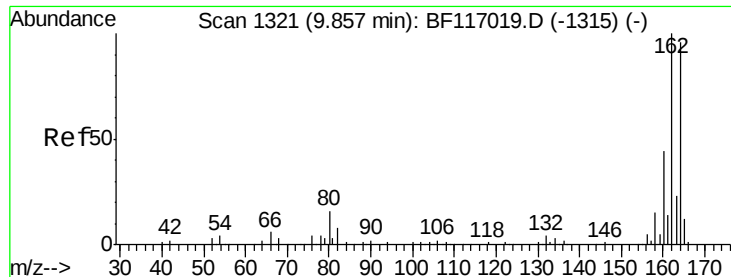
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#38
 1-Methylnaphthalene
 Concen: 2.331 ng
 RT: 8.90 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	99.7	71.9	107.9
116	5.8	3.2	4.8#





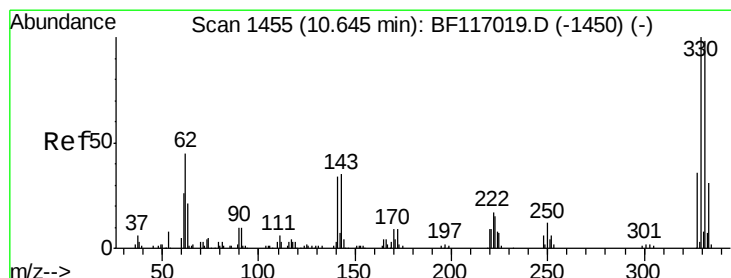
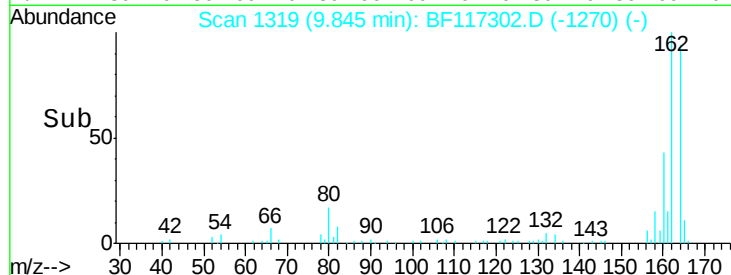
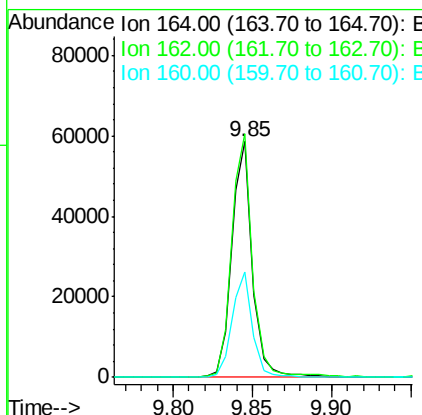
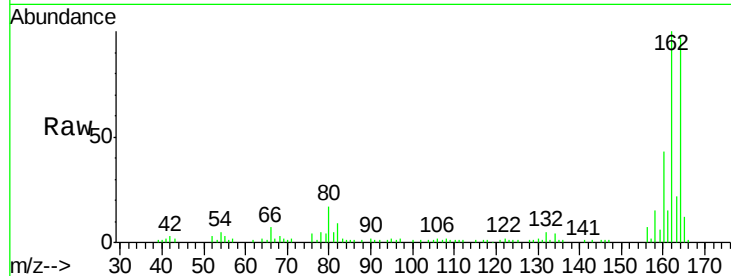
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.2	83.4	125.2
160	44.5	36.4	54.6

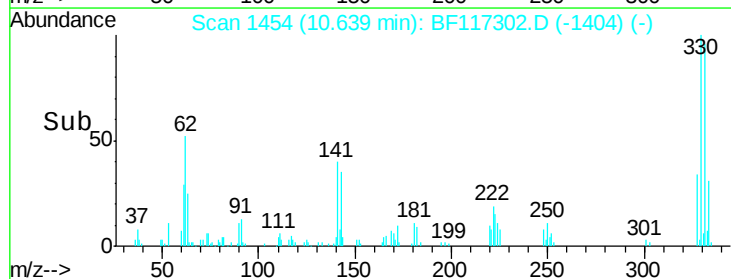
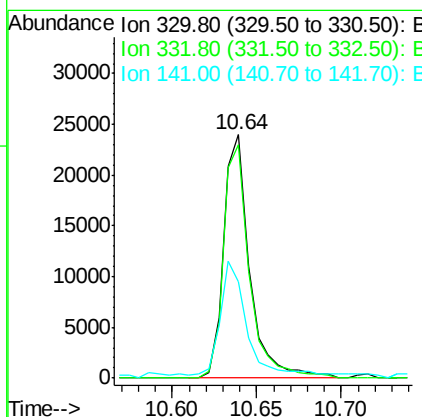
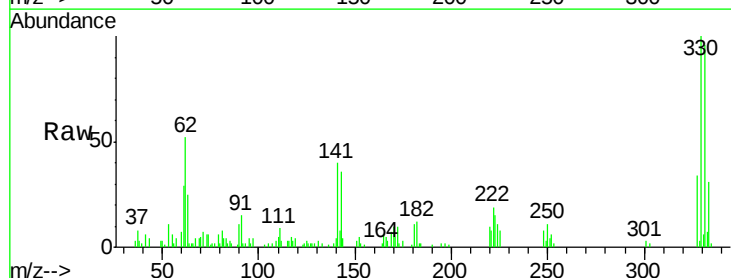
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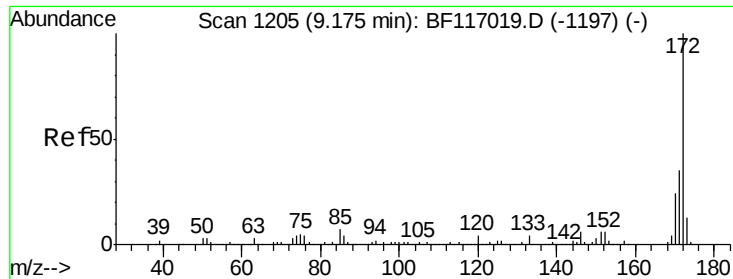
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#42
2,4,6-Tribromophenol
Concen: 59.021 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.0	117.0
141	54.7	35.8	53.6





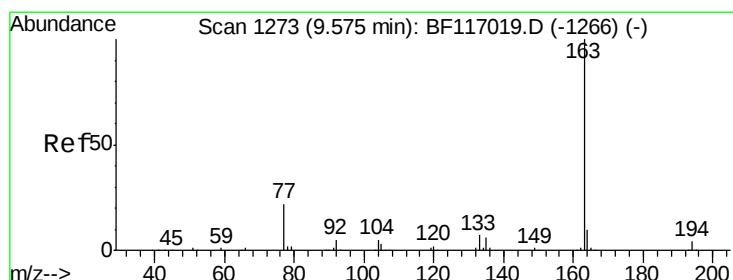
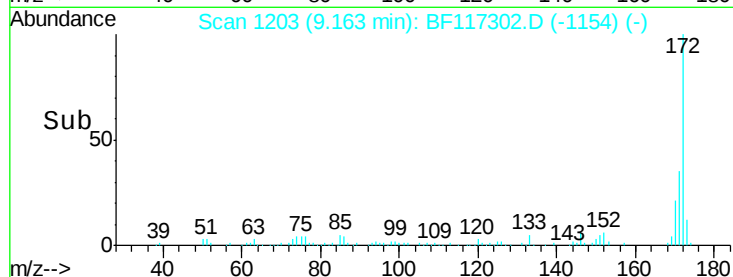
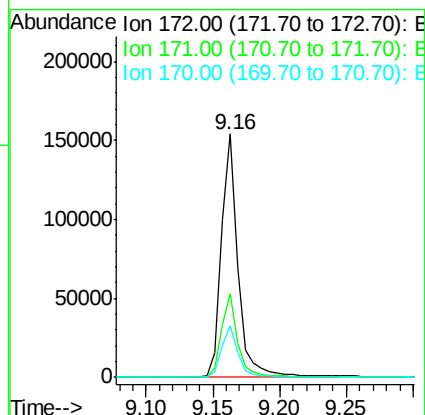
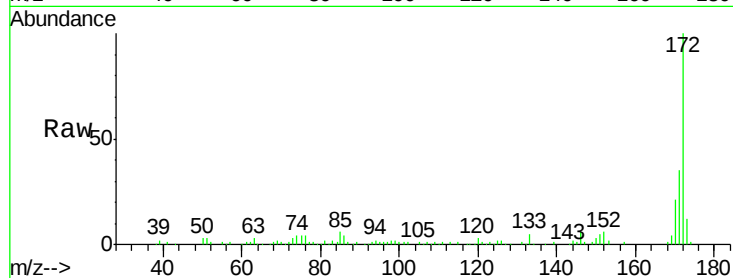
#45
2-Fluorobiphenyl
Concen: 41.057 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.2	42.2
170	21.1	18.9	28.3

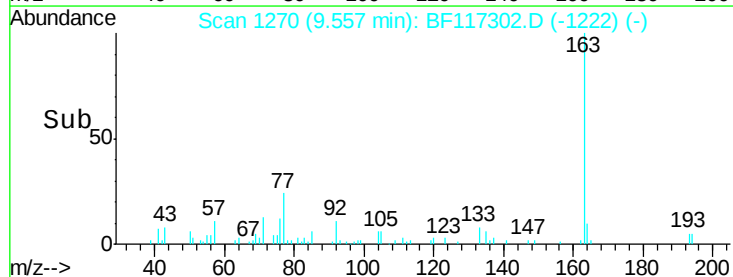
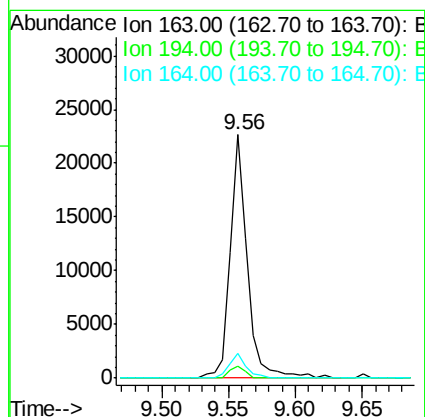
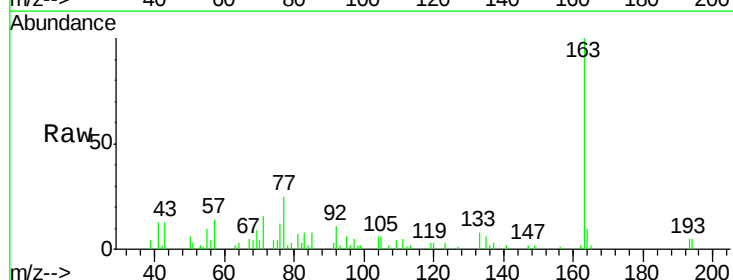
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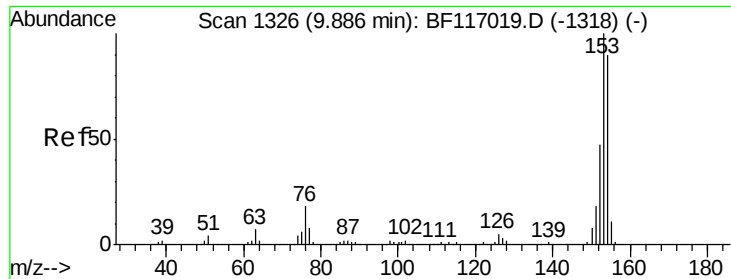
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#50
Dimethylphthalate
Concen: 5.570 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.0	2.9	4.3#
164	10.1	8.2	12.4





#52

Acenaphthene

Concen: 3.090 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Instrument :

BNA_F

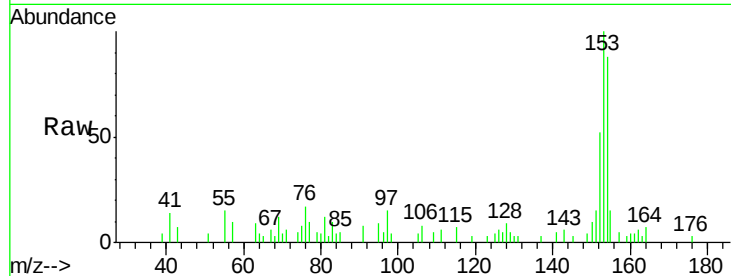
ClientSampleId :

OR-02-100119

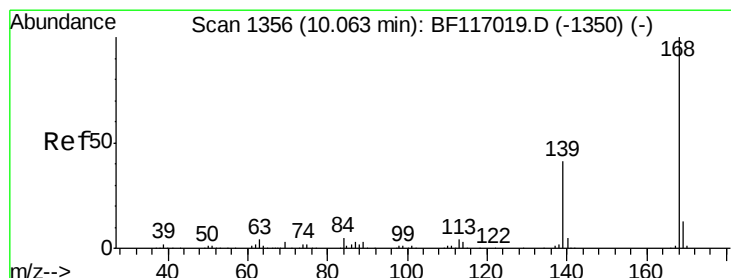
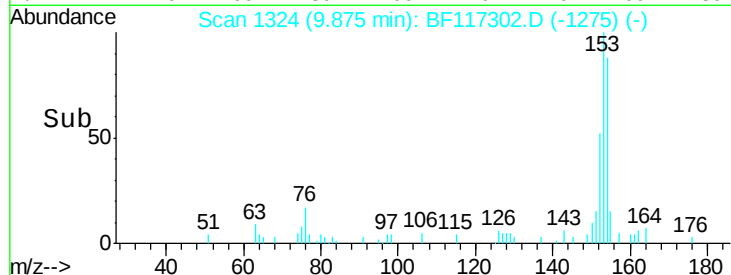
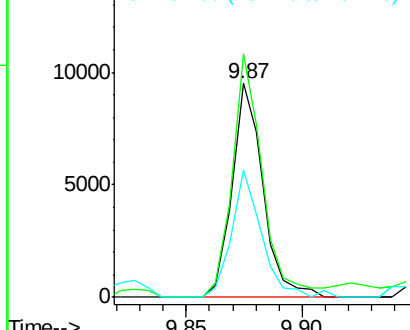
Tot Ion:	154	Resp:	8887
Ion	Ratio	Lower	Upper
154	100		
153	113.8	89.0	133.6
152	59.2	41.9	62.9

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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: 2.005 ng

RT: 10.05 min Scan# 1354

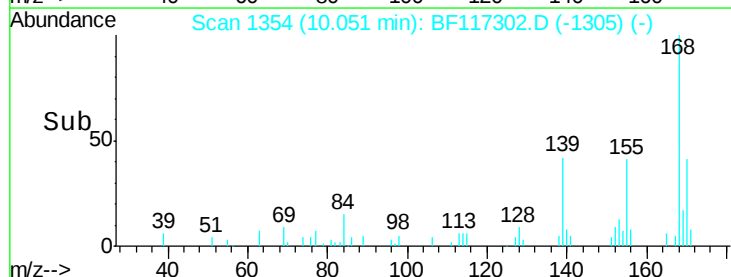
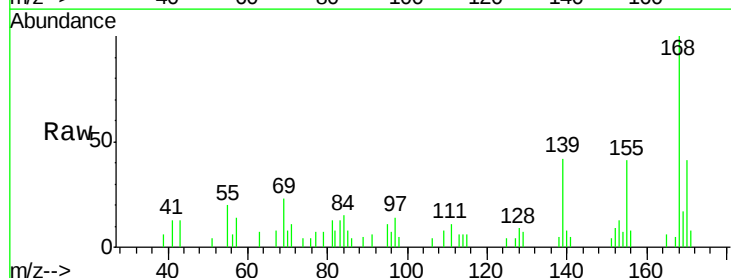
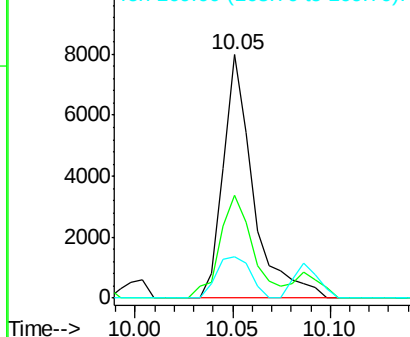
Delta R.T. -0.01 min

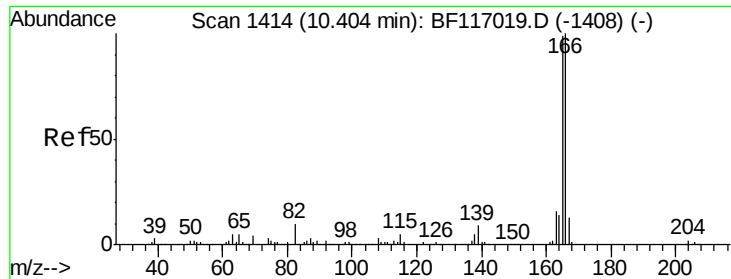
Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Tgt Ion:	168	Resp:	8506
Ion	Ratio	Lower	Upper
168	100		
139	42.3	32.8	49.2
169	17.2	10.5	15.7#

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





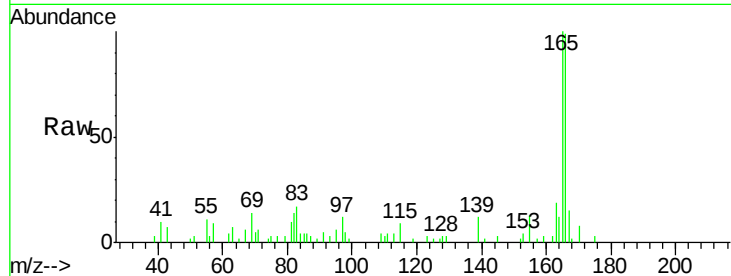
#58
Fluorene
 Concen: 4.574 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Instrument :
 BNA_F
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 OR-02-100119

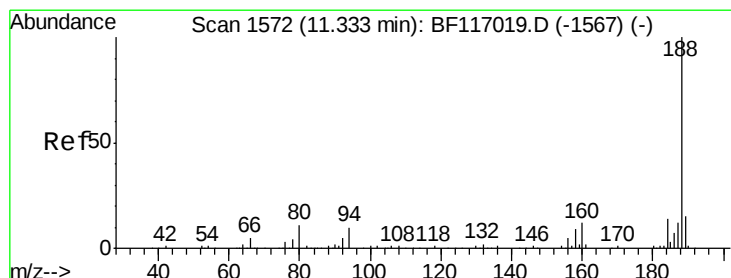
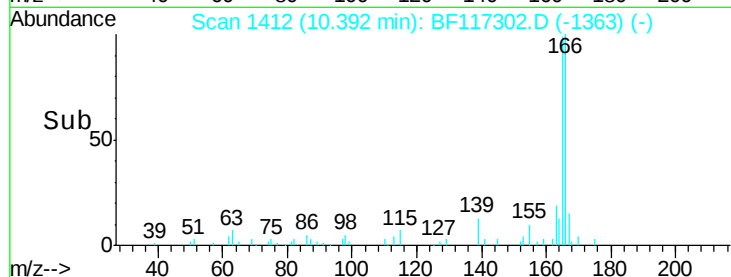
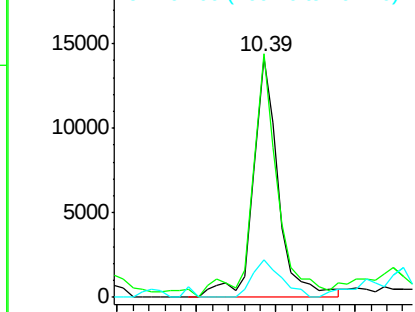
Tot Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.9	118.3
167	15.5	10.6	15.8

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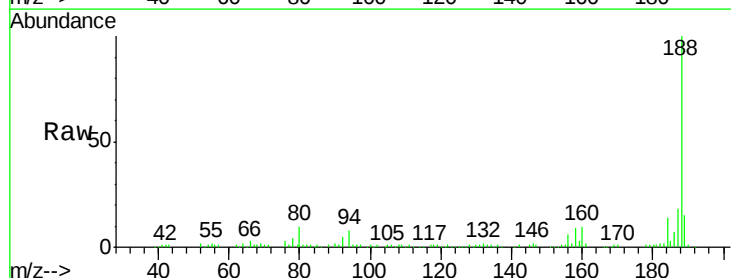


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

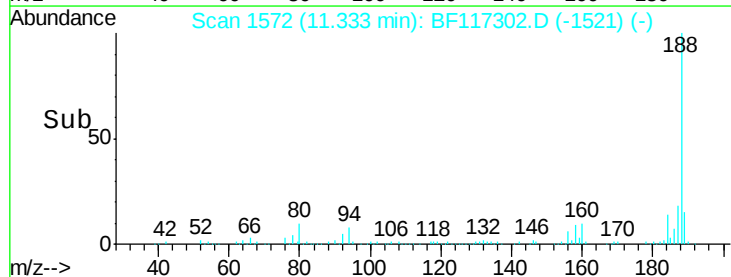
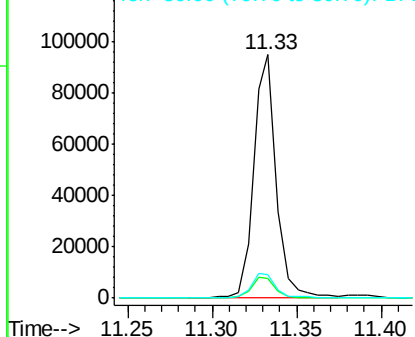


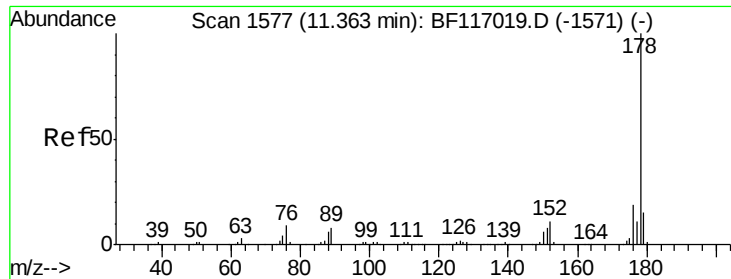
#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	8.2	12.2
80	9.8	9.0	13.6



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





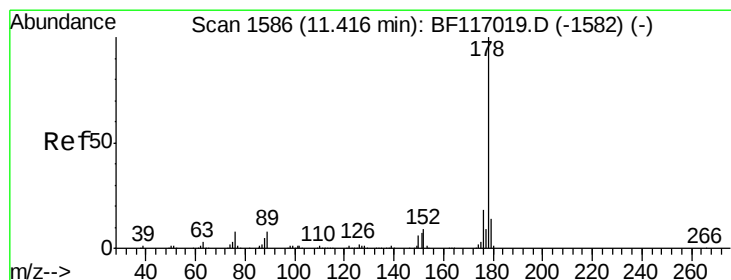
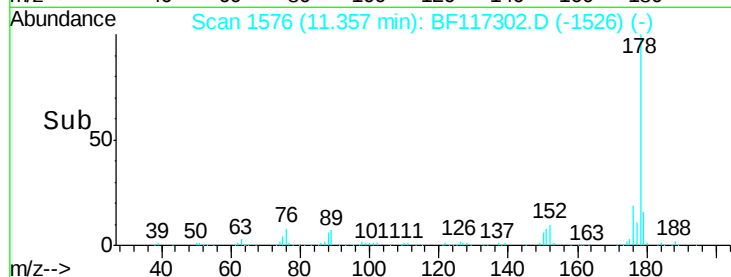
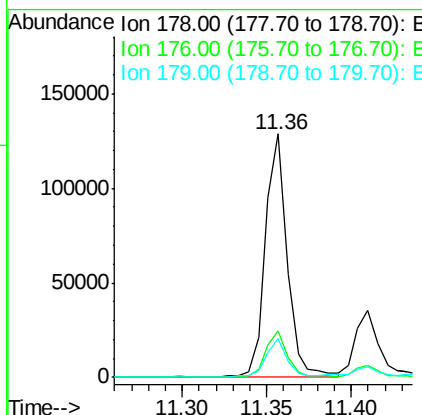
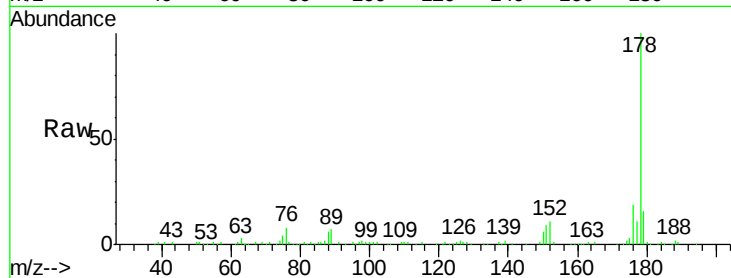
#71
Phenanthrene
Concen: 23.234 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.1	12.4	18.6

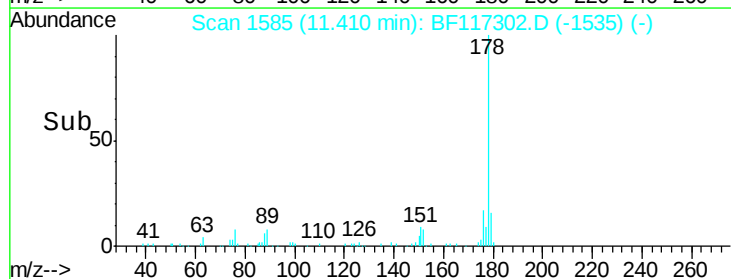
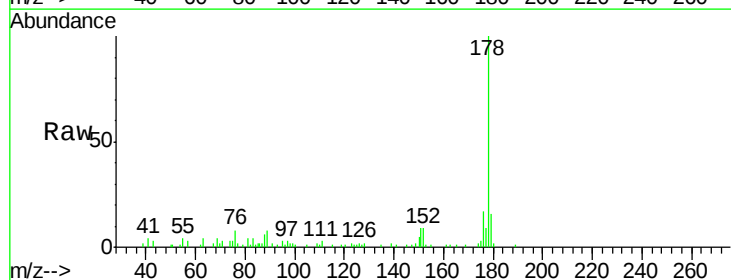
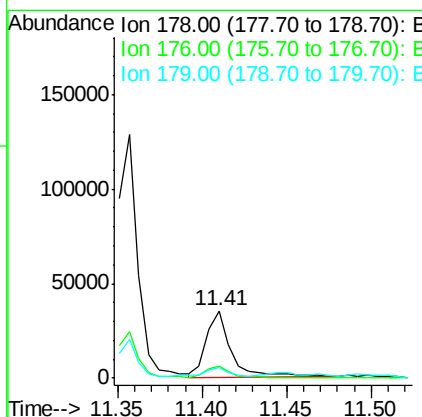
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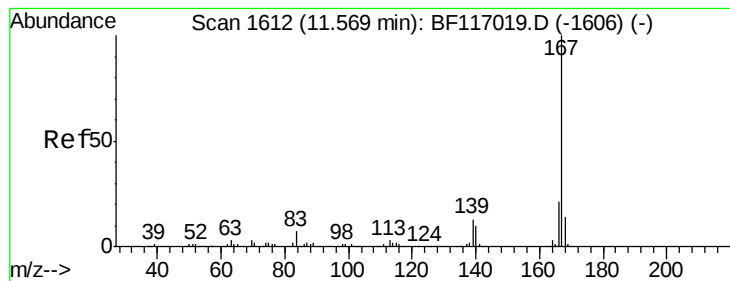
mohammad
10/4/2019 8:17:30 AM



#72
Anthracene
Concen: 6.936 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.9	14.6	21.8
179	15.6	11.6	17.4





#73

Carbazole

Concen: 2.245 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Instrument :

BNA_F

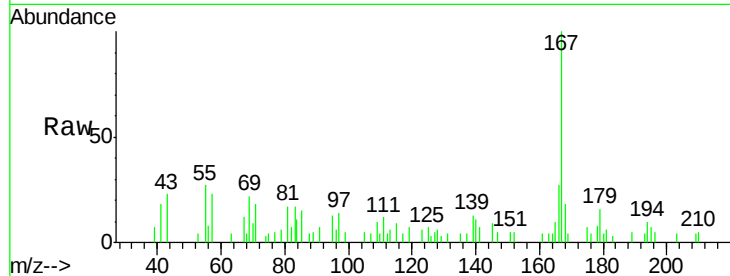
ClientSampleId :

OR-02-100119

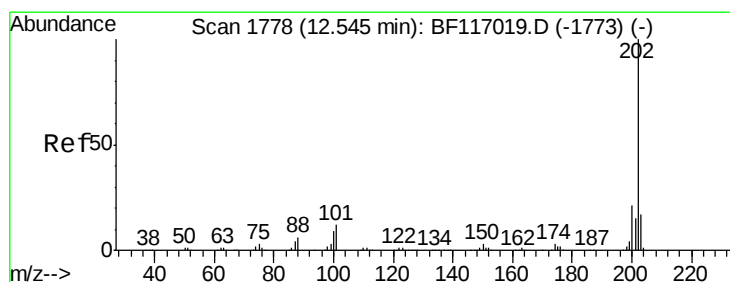
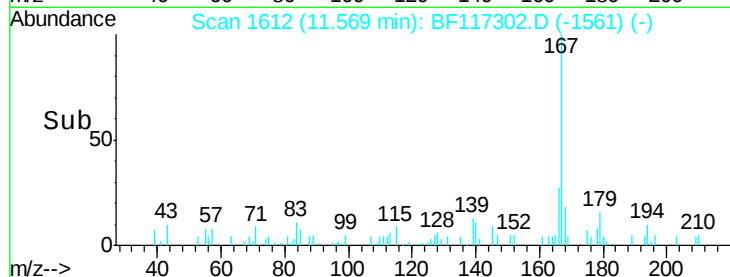
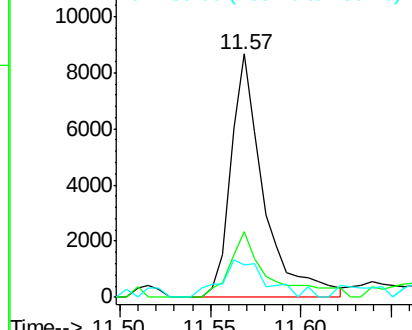
Tot Ion:	167	Resp:	10910
Ion Ratio	Lower	Upper	
167	100		
166	26.8	17.2	25.8#
139	13.5	10.6	16.0

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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: 32.160 ng

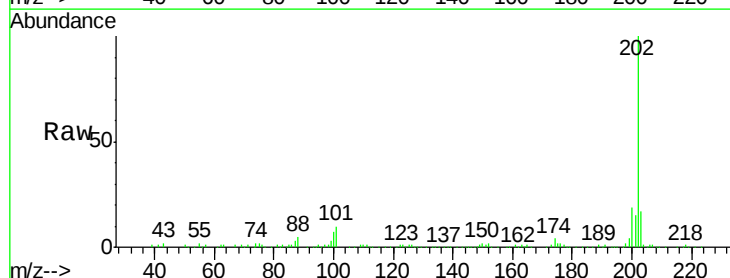
RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

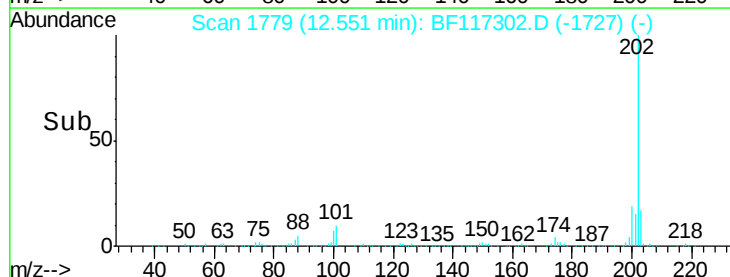
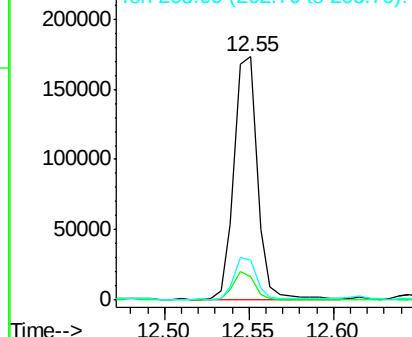
Lab File: BF117302.D

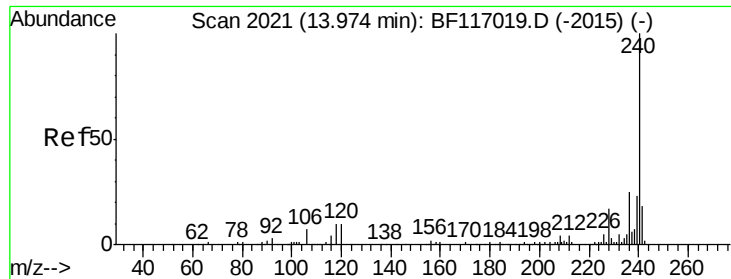
Acq: 2 Oct 2019 16:26

Tgt Ion:	202	Resp:	165691
Ion Ratio	Lower	Upper	
202	100		
101	9.7	0.0	32.3
203	16.6	0.0	37.1



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





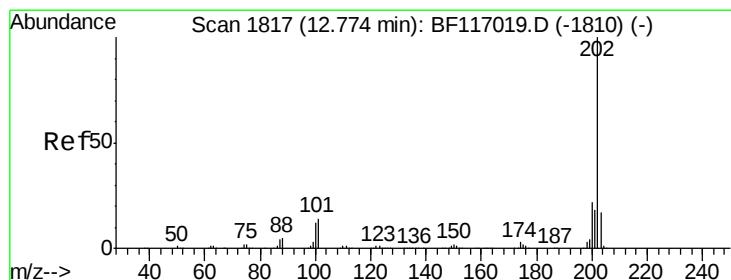
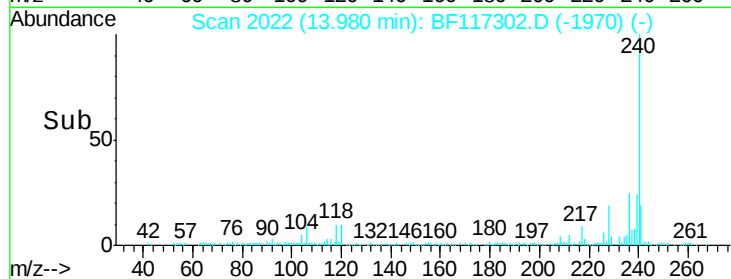
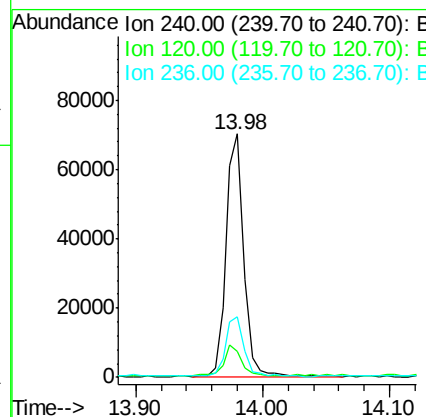
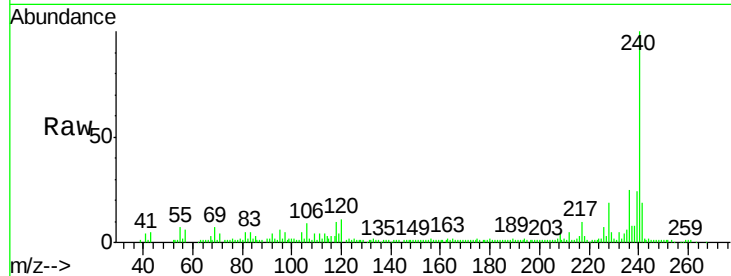
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.3	12.5
236	24.9	20.3	30.5

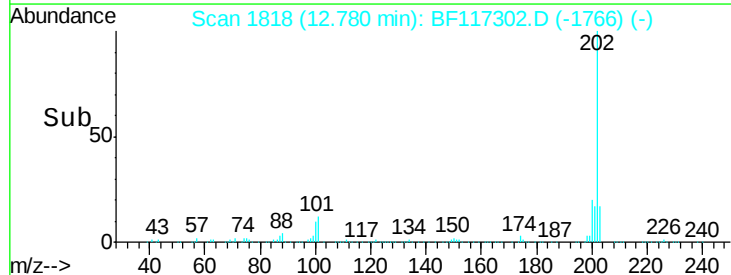
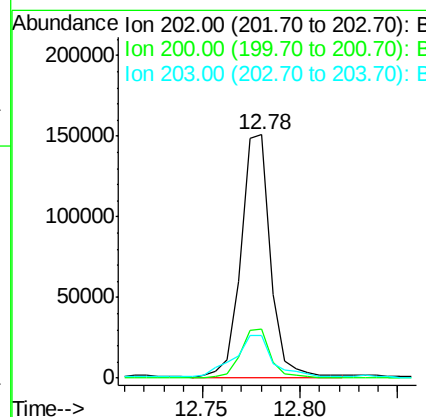
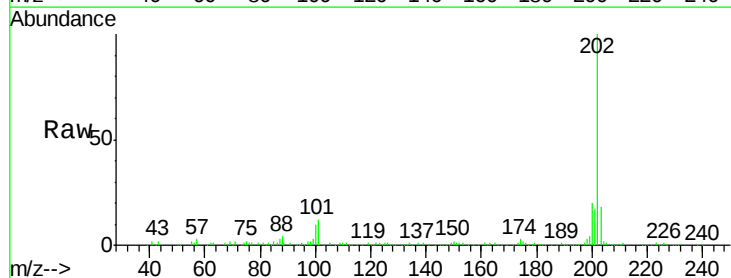
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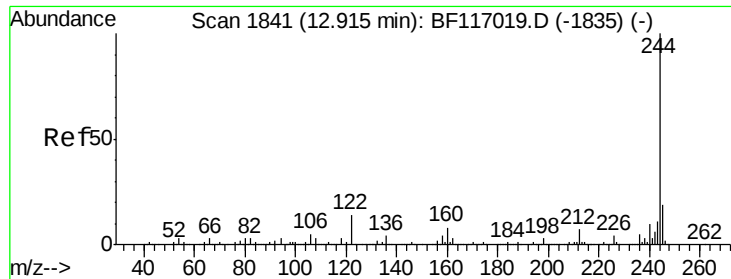
mohammad
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#78
Pyrene
Concen: 27.021 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	17.2	25.8
203	17.5	14.0	21.0





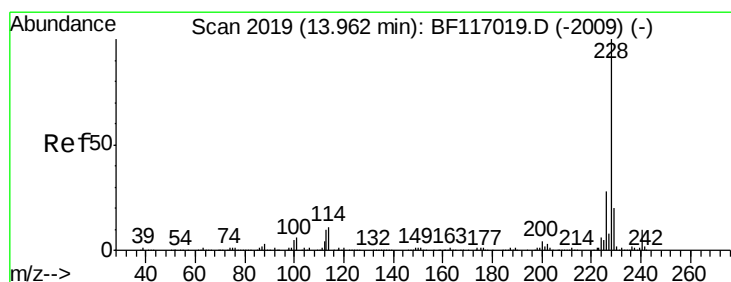
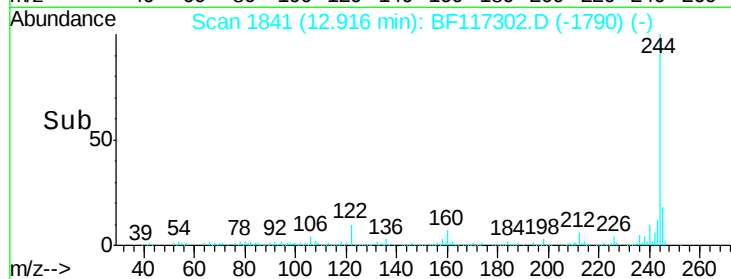
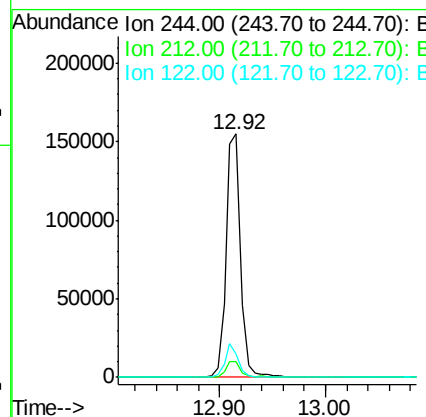
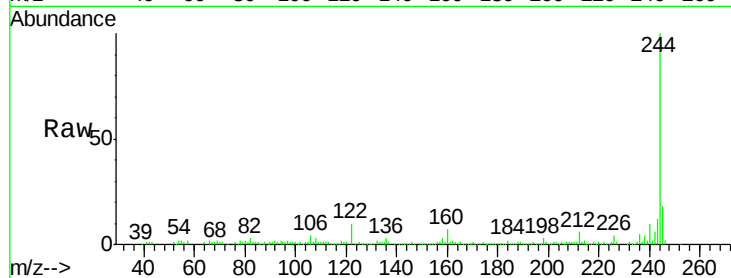
#79
 Terphenyl-d14
 Concen: 39.990 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-100119

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.8	8.8
122	9.7	11.3	16.9

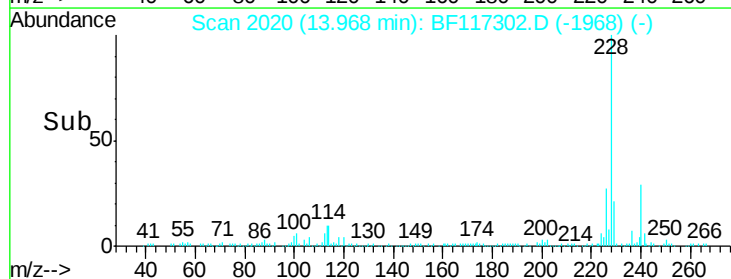
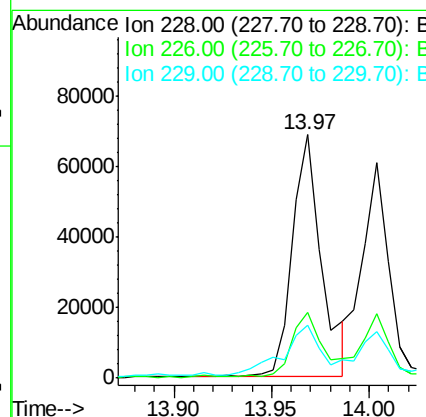
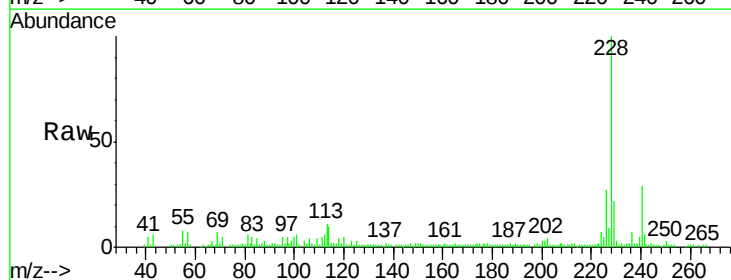
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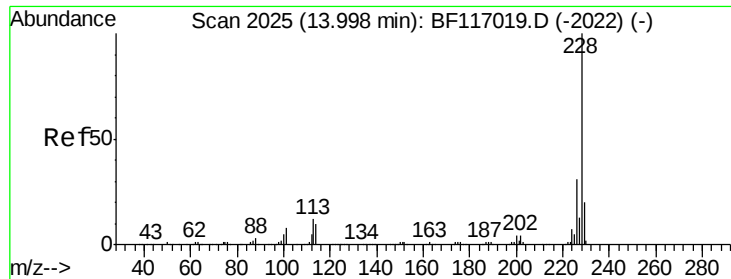
mohammad
 10/4/2019 8:17:30 AM



#81
 Benzo(a)anthracene
 Concen: 15.340 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BF117302.D
 Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.3	33.5
229	21.9	15.9	23.9





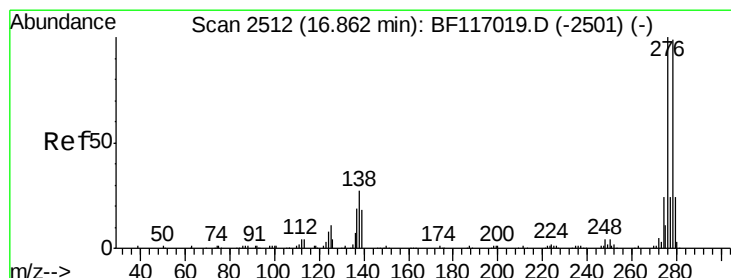
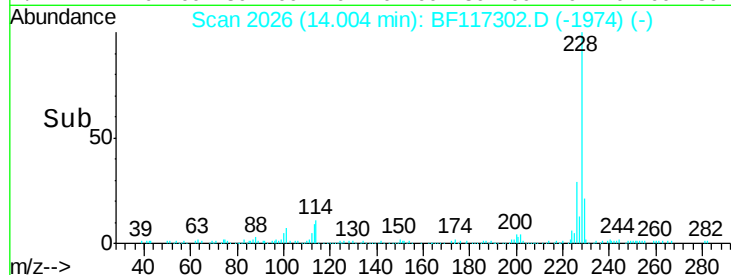
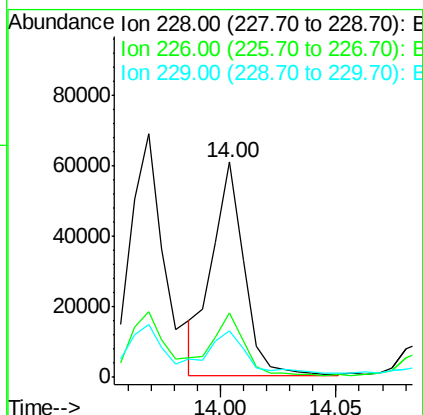
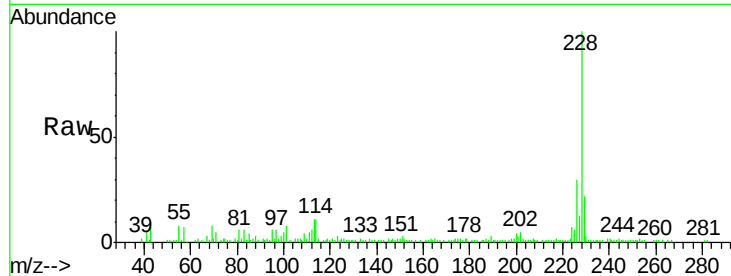
#83
Chrysene
Concen: 12.871 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion:228	Resp:	58451
Ion Ratio	Lower	Upper
228 100		
226 29.8	24.8	37.2
229 21.8	15.8	23.8

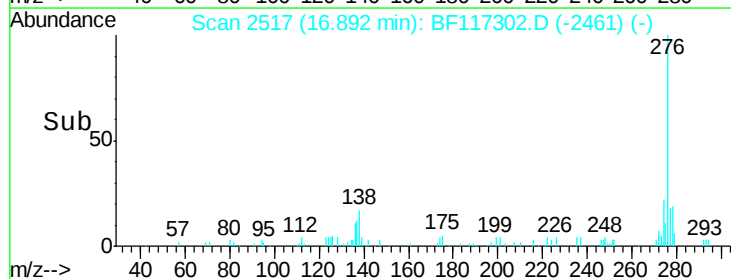
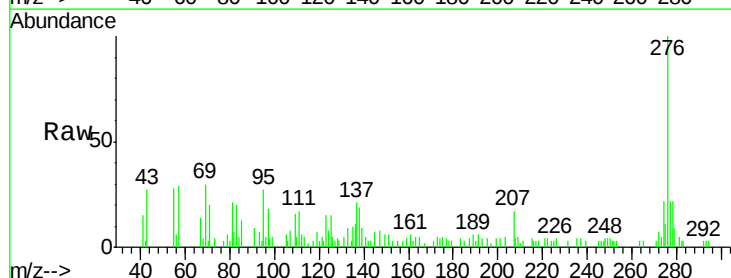
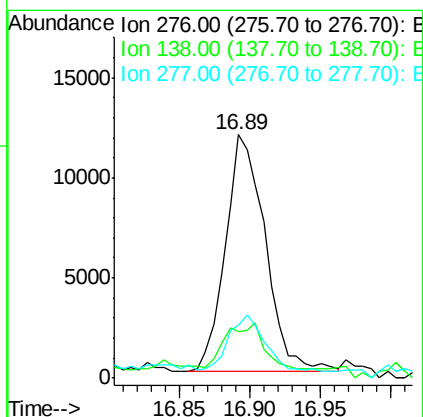
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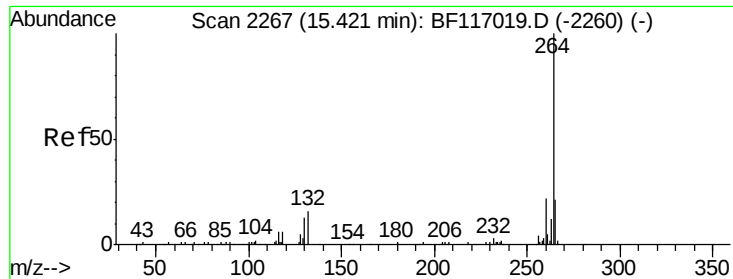
mohammad
10/4/2019 8:17:30 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 6.982 ng
RT: 16.89 min Scan# 2517
Delta R.T. 0.03 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion:276	Resp:	23133
Ion Ratio	Lower	Upper
276 100		
138 18.9	20.7	31.1#
277 25.3	19.8	29.8





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. 0.02 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Instrument :

BNA_F

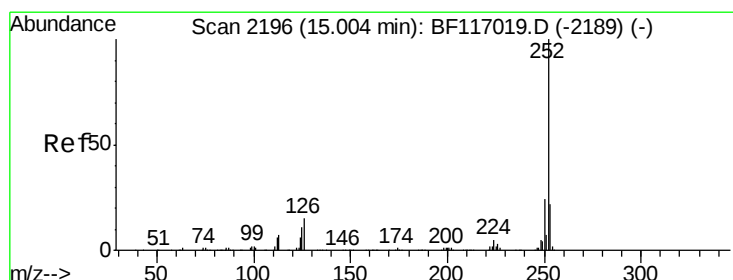
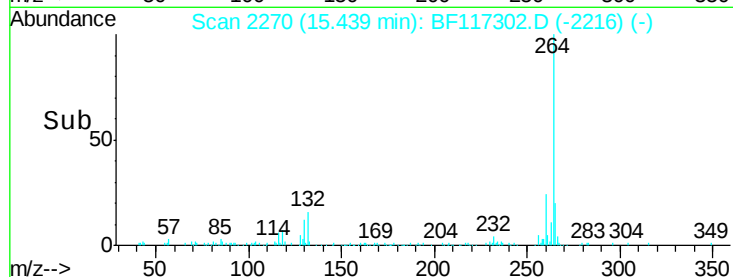
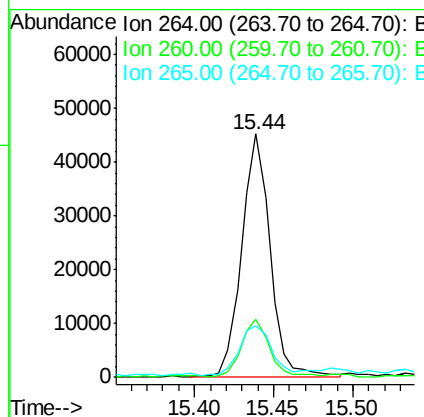
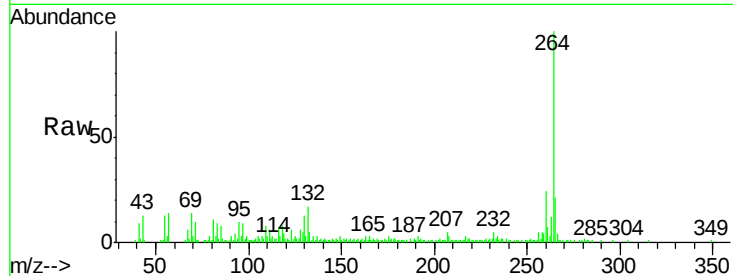
ClientSampleId :

OR-02-100119

Tot Ion:	264	Resp:	56495
Ion Ratio	Lower	Upper	
264	100		
260	23.8	17.6	26.4
265	21.1	16.6	24.8

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#88

Benzo(b)fluoranthene

Concen: 18.141 ng m

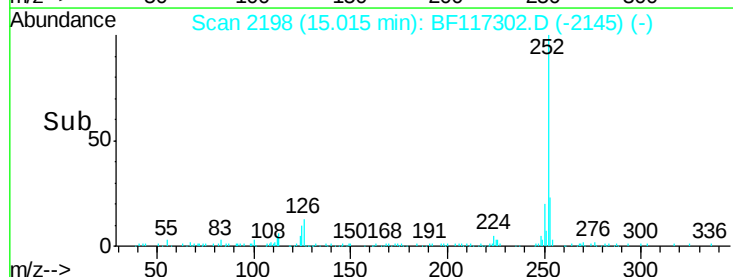
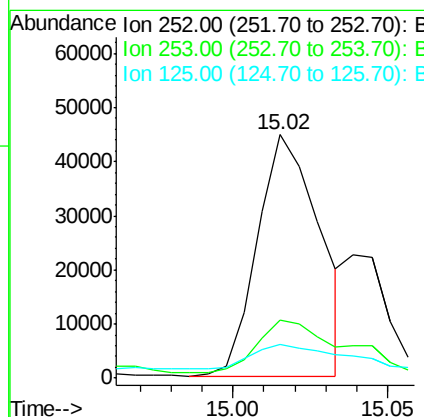
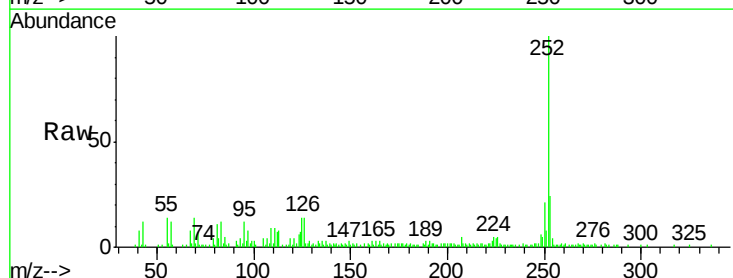
RT: 15.02 min Scan# 2198

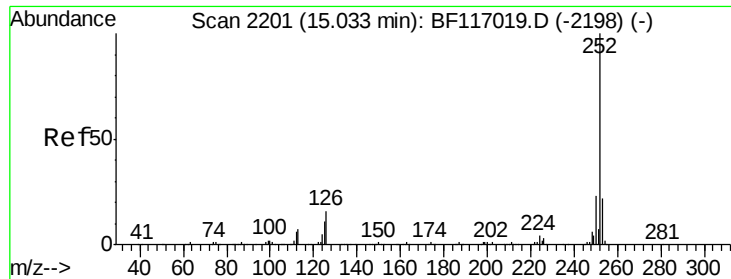
Delta R.T. 0.01 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Tgt Ion:	252	Resp:	62080
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.6	26.4
125	13.8	8.6	12.8#





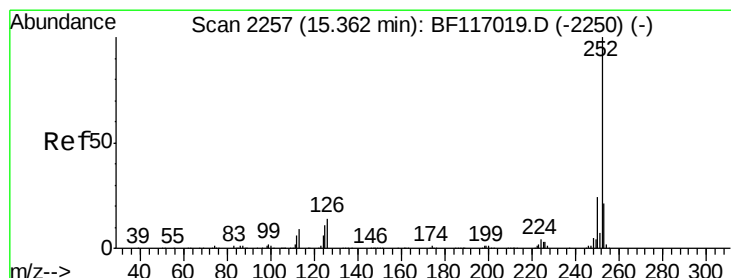
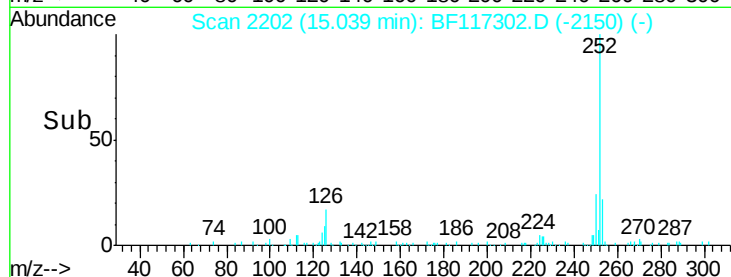
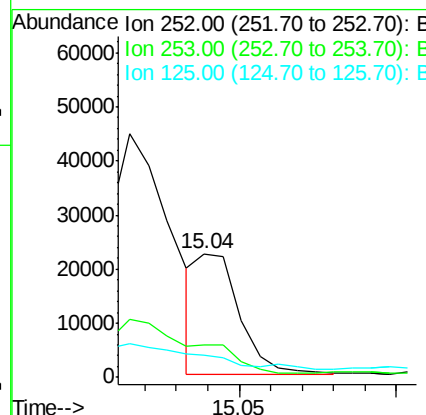
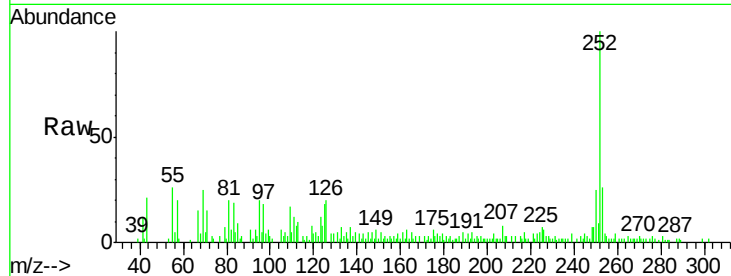
#89
Benzo(k)fluoranthene
Concen: 6.466 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Instrument :
BNA_F
ClientSampleId :
OR-02-100119

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.4	26.2
125	18.5	8.8	13.2

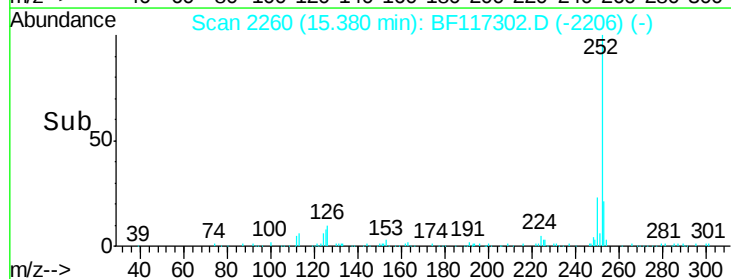
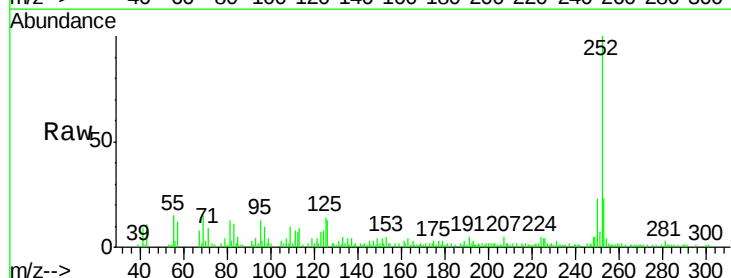
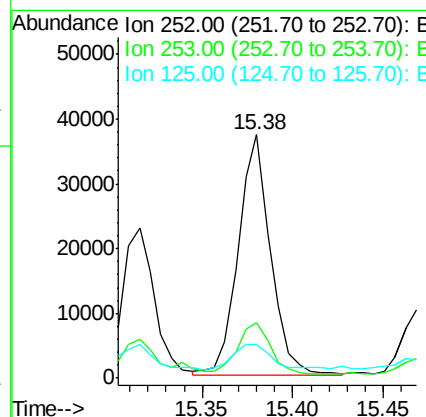
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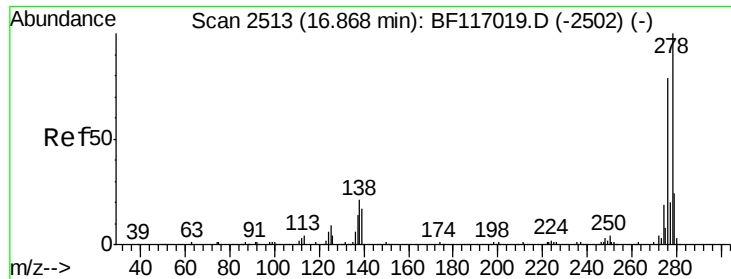
mohammad
10/4/2019 8:17:30 AM



#90
Benzo(a)pyrene
Concen: 15.421 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.02 min
Lab File: BF117302.D
Acq: 2 Oct 2019 16:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	16.6	25.0
125	13.8	8.9	13.3





#91

Dibenzo(a,h)anthracene

Concen: 2.435 ng

RT: 16.89 min Scan# 2517

Delta R.T. 0.02 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Instrument :

BNA_F

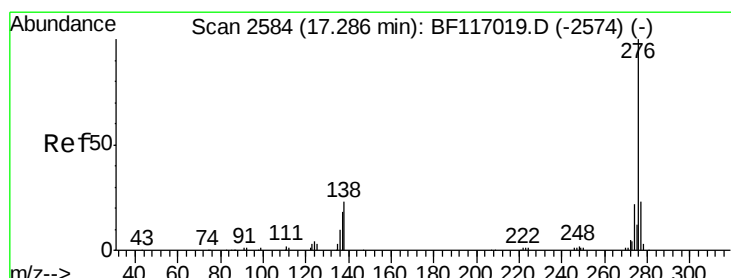
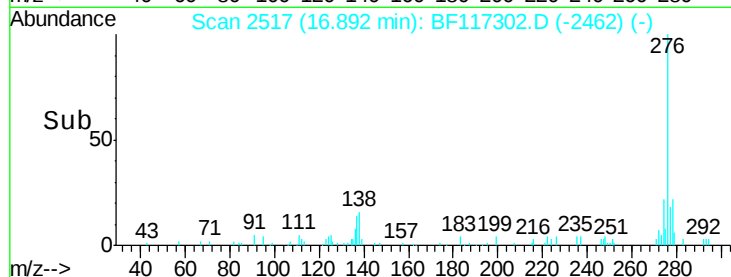
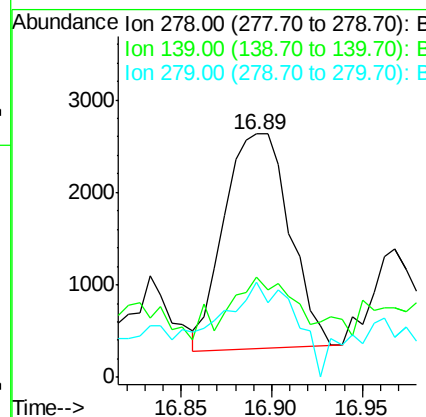
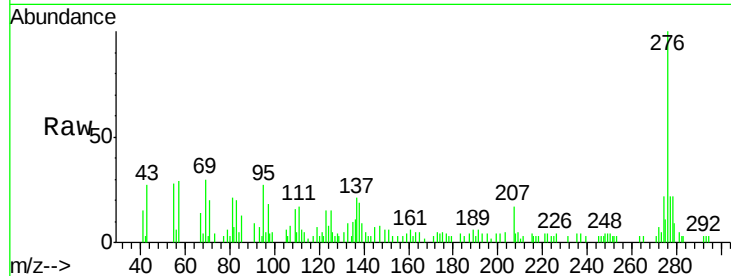
ClientSampleId :

OR-02-100119

Tot Ion:	278	Resp:	5825
Ion Ratio	Lower	Upper	
278	100		
139	41.3	13.5	20.3#
279	39.3	18.8	28.2#

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#92

Benzo(g,h,i)perylene

Concen: 9.871 ng

RT: 17.34 min Scan# 2593

Delta R.T. 0.05 min

Lab File: BF117302.D

Acq: 2 Oct 2019 16:26

Tgt Ion:	276	Resp:	23531
Ion Ratio	Lower	Upper	
276	100		
277	25.4	18.6	27.8
138	21.7	18.0	27.0

