

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\
 Data File : BF102497.D
 Acq On : 27 Jan 2018 5:53
 Operator : SJ/JU
 Sample : J1020-11DL 4X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-012418-BDL

Manual Integrations
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Sohil
 1/27/2018 1:47:41 PM

Quant Time: Jan 27 06:23:12 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 26 16:18:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	158944	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	661181	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	274239	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	415943	20.00	ng	0.00
75) Chrysene-d12	13.89	240	295406	20.00	ng	0.00
86) Perylene-d12	15.32	264	234088	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	274776	26.21	ng	0.00
7) Phenol-d6	6.36	99	345286	27.32	ng	0.00
23) Nitrobenzene-d5	7.28	82	159152	13.83	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	43295	15.93	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	350570	18.80	ng	0.00
78) Terphenyl-d14	12.83	244	260089	19.85	ng	0.00

Target Compounds					Qvalue	
31) Naphthalene	8.02	128	83995	2.544	ng	98
49) Dimethylphthalate	9.47	163	54454	2.402	ng	100
51) Acenaphthene	9.79	154	103505	5.968	ng	98
54) Dibenzofuran	9.96	168	128411	5.471	ng	99
57) Fluorene	10.30	166	204230	10.981	ng	100
70) Phenanthrene	11.27	178	1218091	50.256	ng	98
71) Anthracene	11.32	178	463694	18.743	ng	98
72) Carbazole	11.48	167	103258	4.278	ng	99
74) Fluoranthene	12.46	202	1353215	54.749	ng	99
77) Pyrene	12.69	202	1179809	51.656	ng	99
80) Benzo(a)anthracene	13.87	228	499026	27.438	ng	98
82) Chrysene	13.92	228	434858	23.545	ng	99
85) Indeno(1,2,3-cd)pyrene	16.73	276	158540	10.394	ng	96
87) Benzo(b)fluoranthene	14.91	252	440574m	29.038	ng	
88) Benzo(k)fluoranthene	14.93	252	140270m	9.785	ng	
89) Benzo(a)pyrene	15.26	252	313823	22.934	ng	96
90) Dibenzo(a,h)anthracene	16.73	278	37522	3.385	ng	# 71
91) Benzo(g,h,i)perylene	17.15	276	160806	14.692	ng	97

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

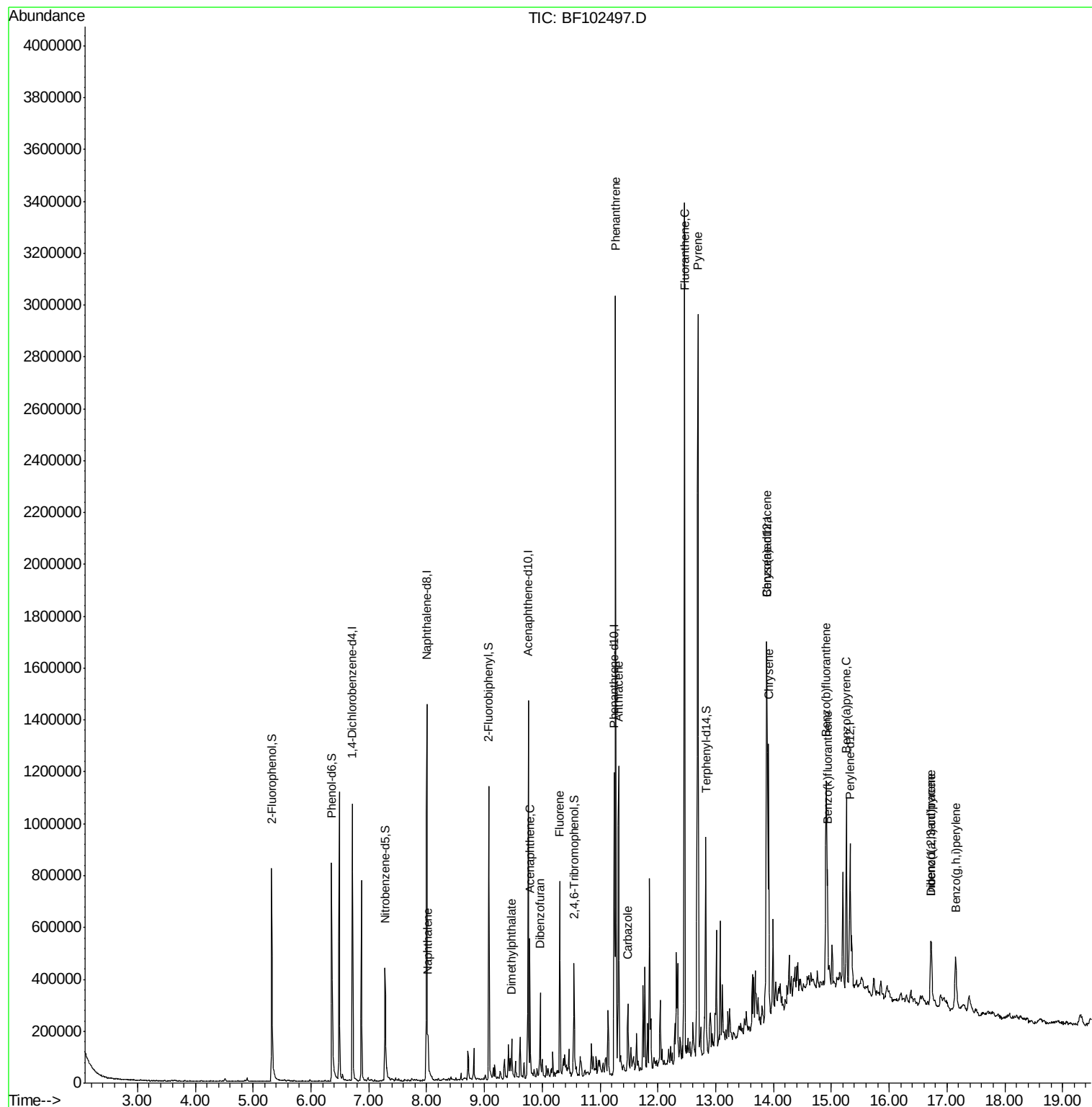
Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\
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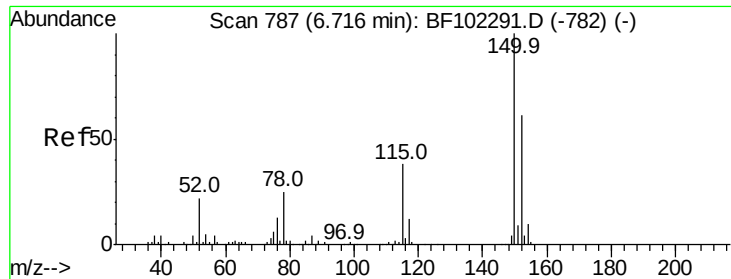
Instrument :
BNA_F
ClientSampleId :
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#1

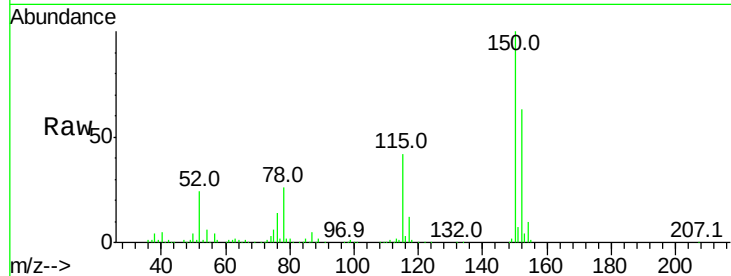
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Instrument :
BNA_F
ClientSampleId :
PL-02-012418-BDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.6	186.8
115	65.9	50.1	75.1

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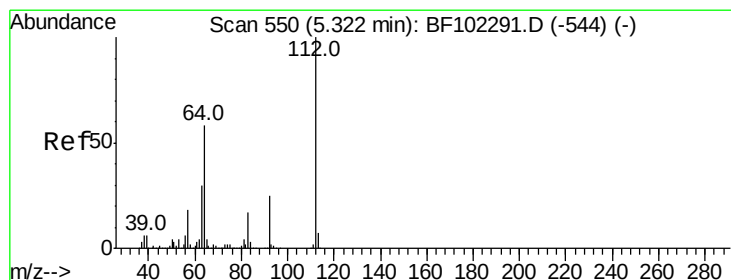
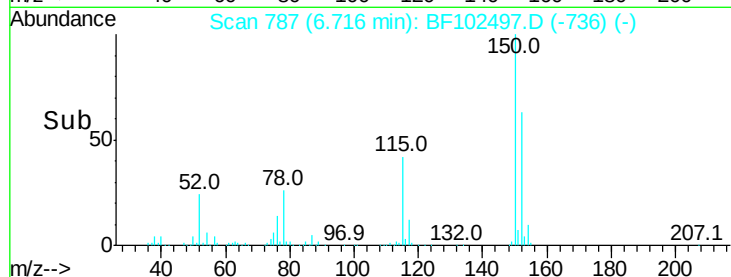
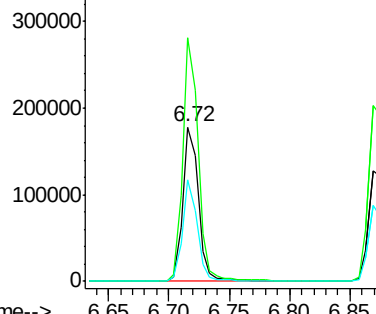


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

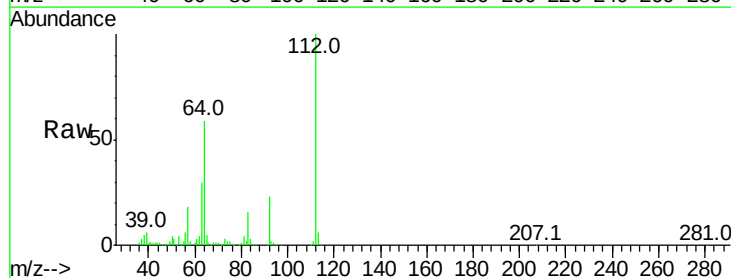
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 26.212 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.9	71.9
63	30.0	23.7	35.5

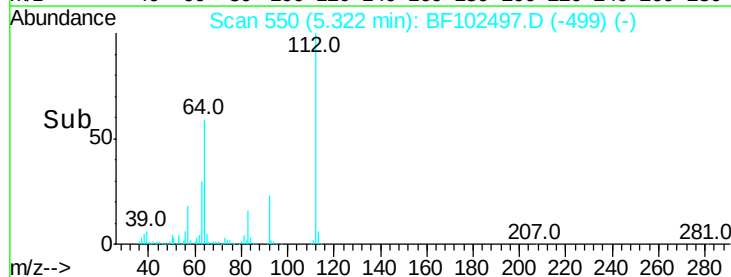
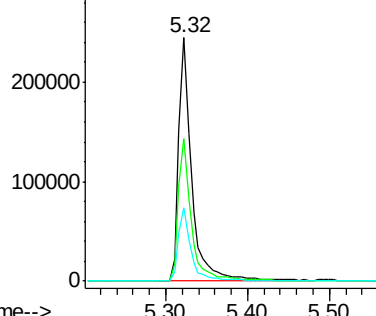


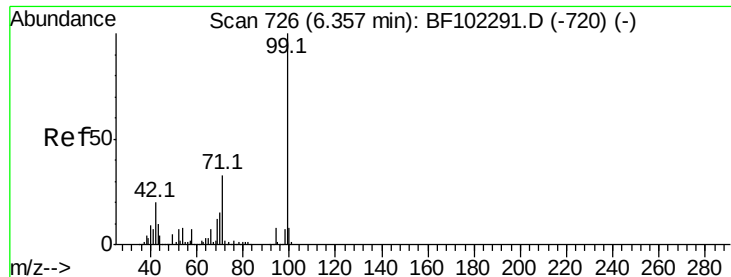
Abundance

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: 27.322 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

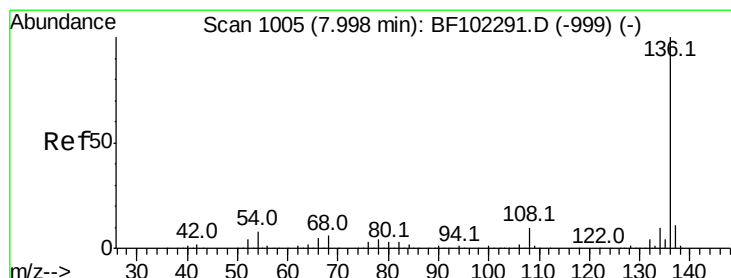
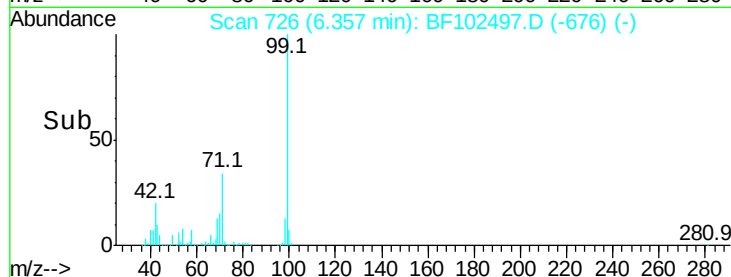
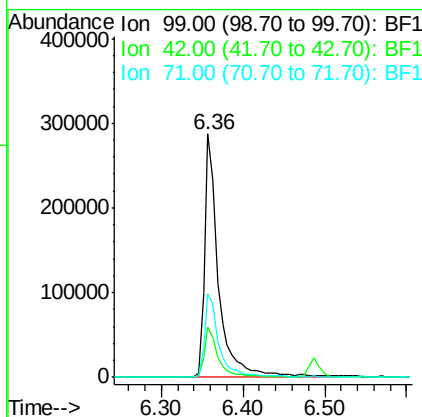
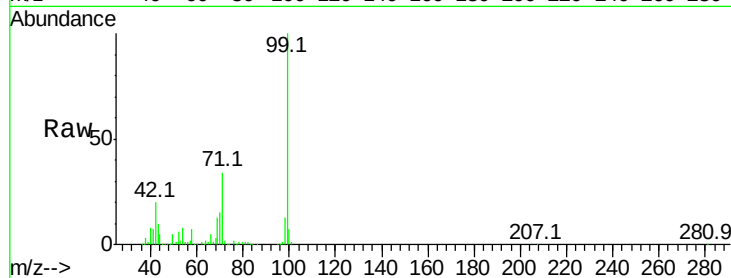
ClientSampled :

PL-02-012418-BDL

Tot Ion:	99	Resp:	345286
Ion Ratio	Lower	Upper	
99	100		
42	20.5	14.5	21.7
71	34.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

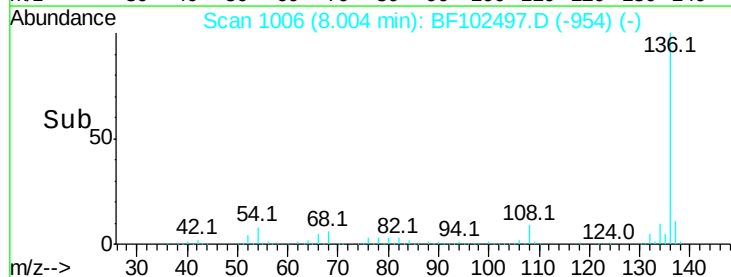
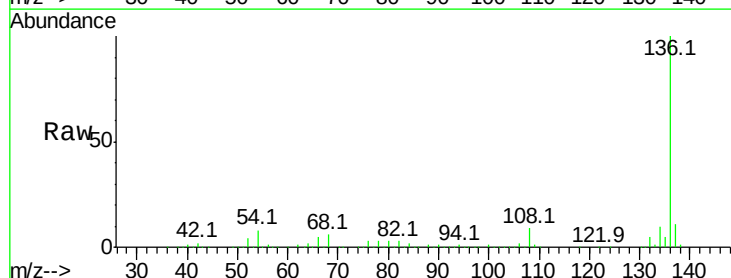
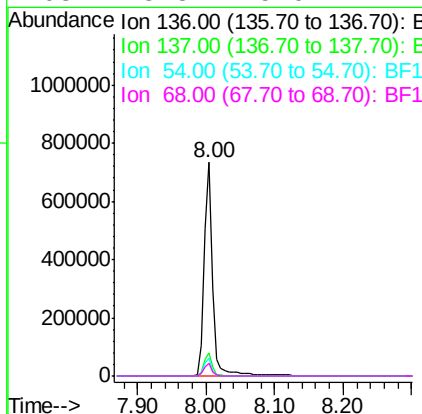
RT: 8.00 min Scan# 1006

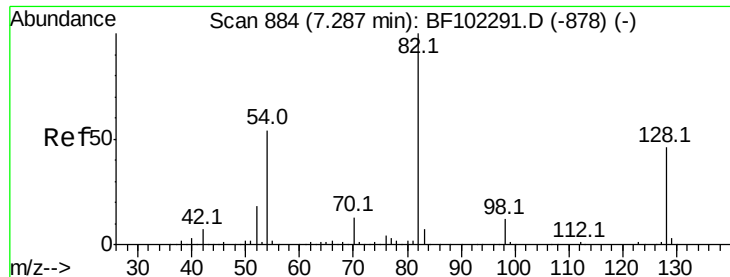
Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Tgt Ion:	136	Resp:	661181
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	8.1	6.6	9.8
68	5.8	5.0	7.4





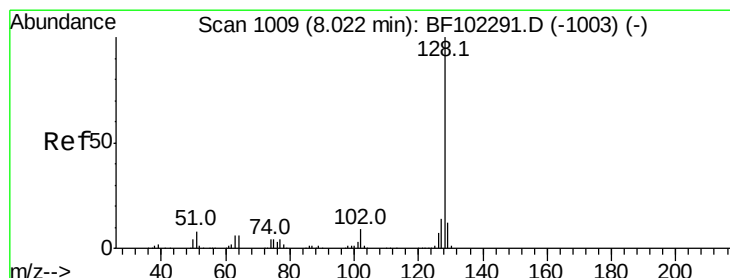
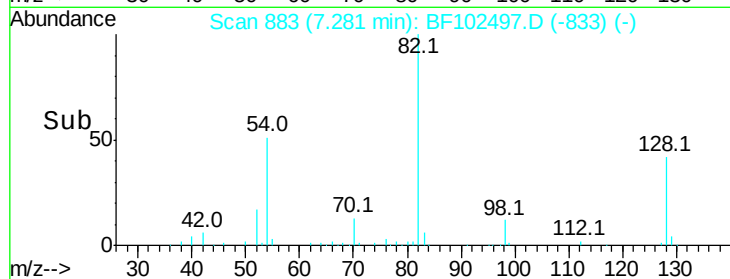
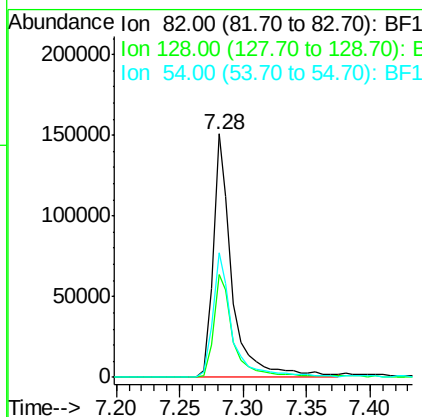
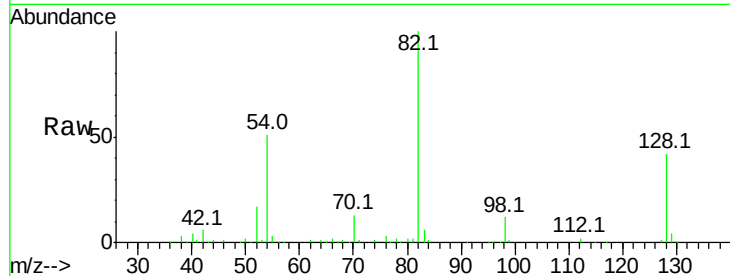
#23
Nitrobenzene-d5
Concen: 13.833 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Instrument :
BNA_F
ClientSampleId :
PL-02-012418-BDL

Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	42.3	36.1	54.1
54	51.4	41.4	62.2

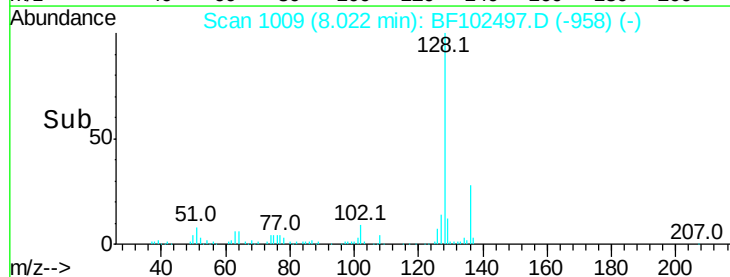
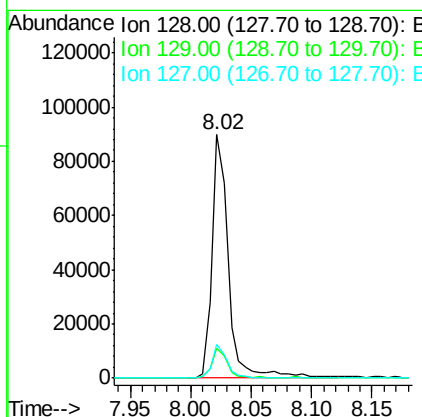
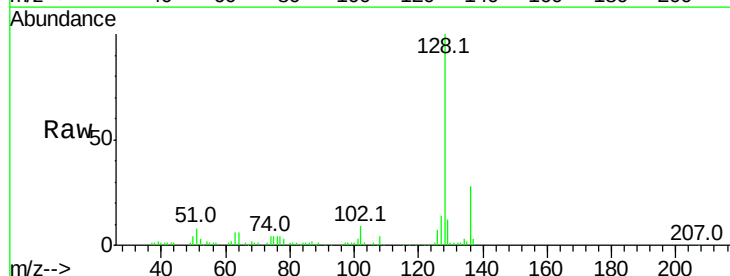
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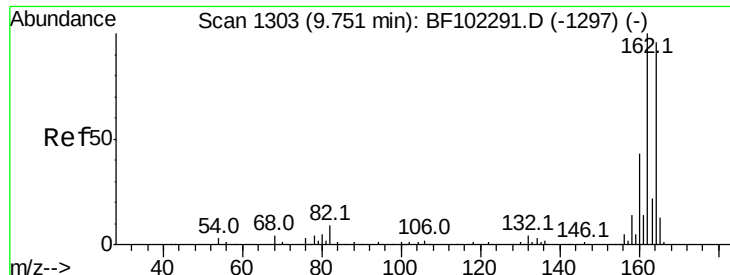
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#31
Naphthalene
Concen: 2.544 ng
RT: 8.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	12.2	8.8	13.2
127	13.8	10.9	16.3





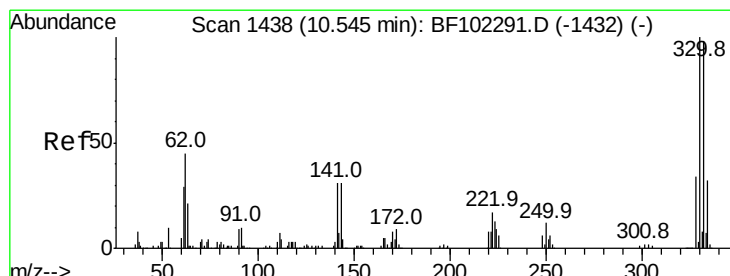
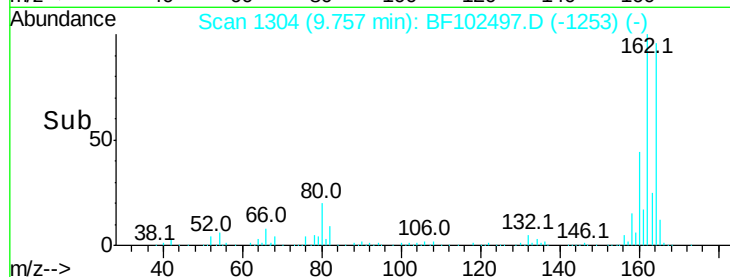
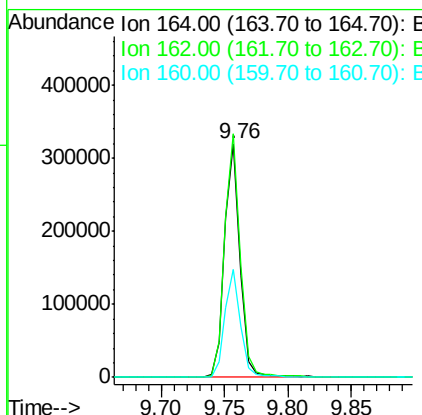
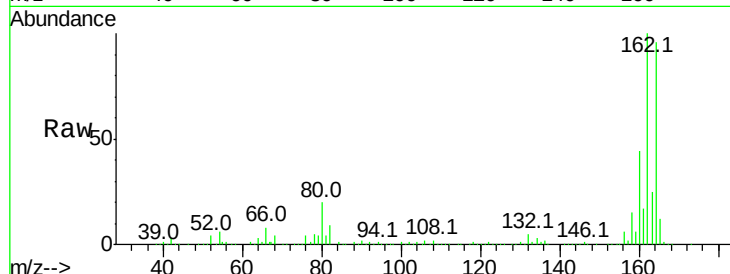
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.00 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-012418-BDL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	274239		
162	104.3	86.1	129.1	
160	46.0	38.3	57.5	

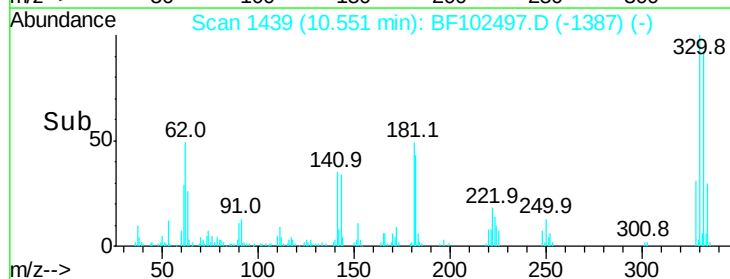
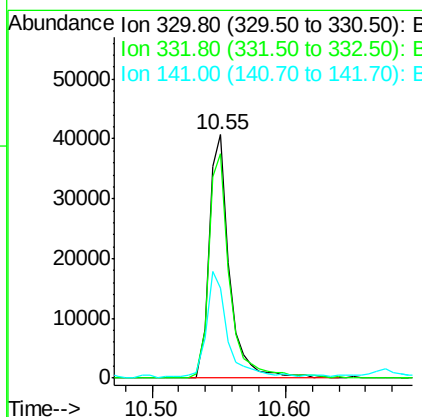
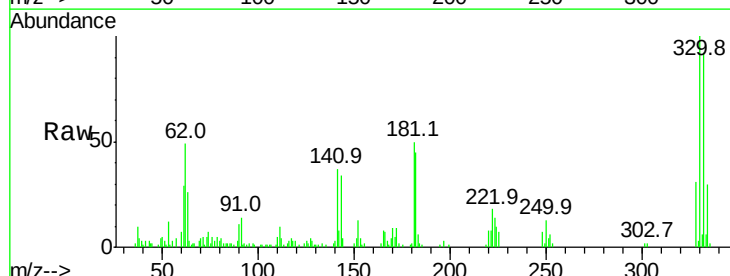
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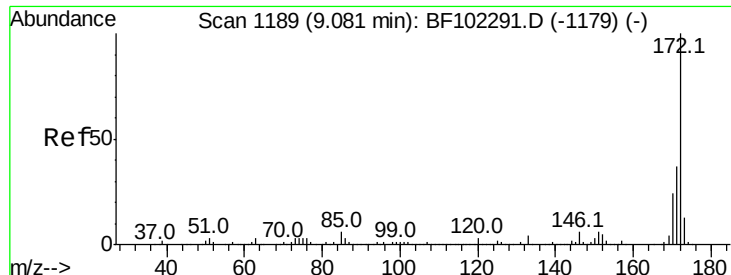
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#41
 2,4,6-Tribromophenol
 Concen: 15.933 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. 0.01 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	43295		
332	96.4	77.0	115.6	
141	47.3	29.9	44.9#	





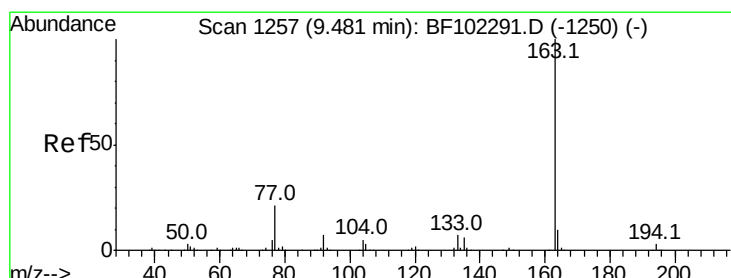
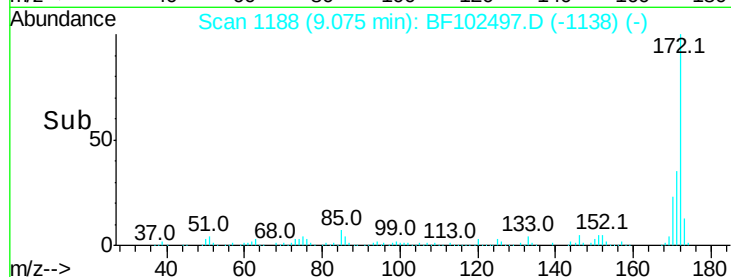
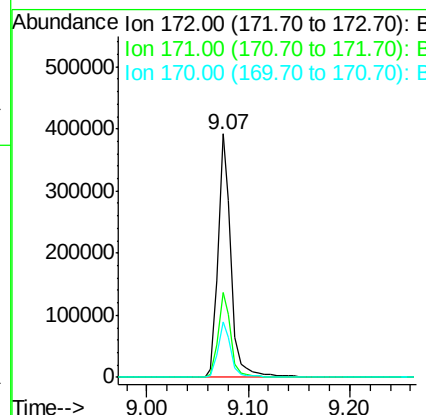
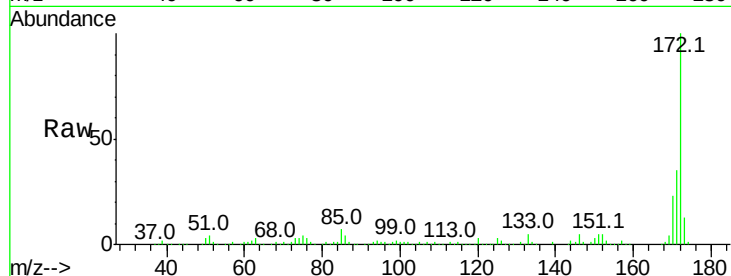
#44
2-Fluorobiphenyl
Concen: 18.796 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Instrument :
BNA_F
ClientSampleId :
PL-02-012418-BDL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	350570		
171	35.0		29.7	44.5
170	22.9		19.6	29.4

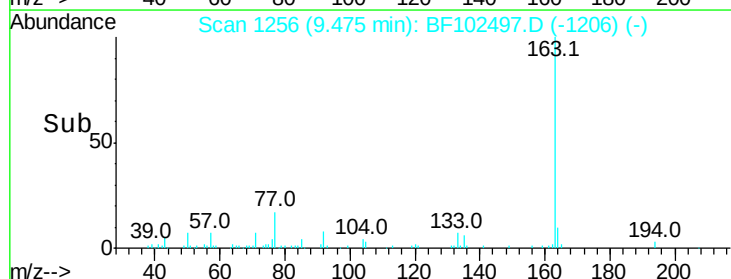
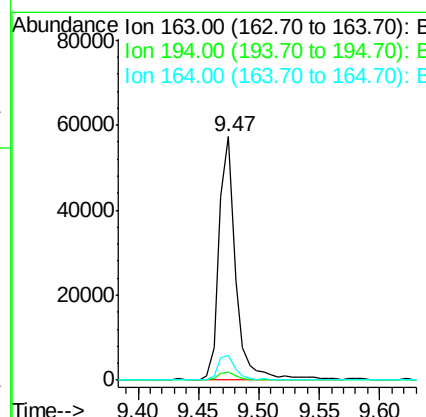
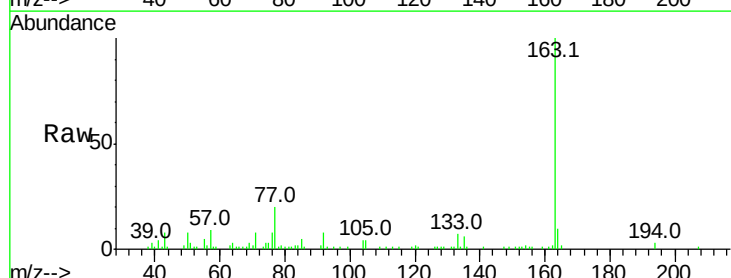
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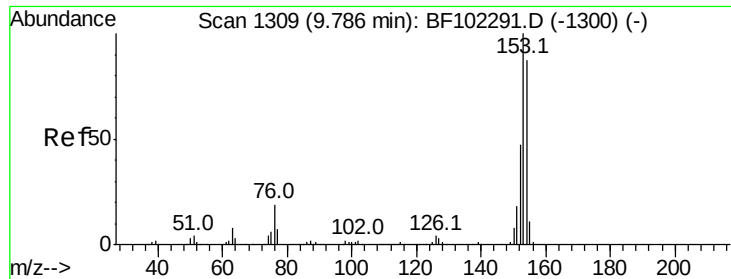
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#49
Dimethylphthalate
Concen: 2.402 ng
RT: 9.47 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	54454		
194	3.3		2.7	4.1
164	10.0		8.2	12.2





#51

Acenaphthene

Concen: 5.968 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

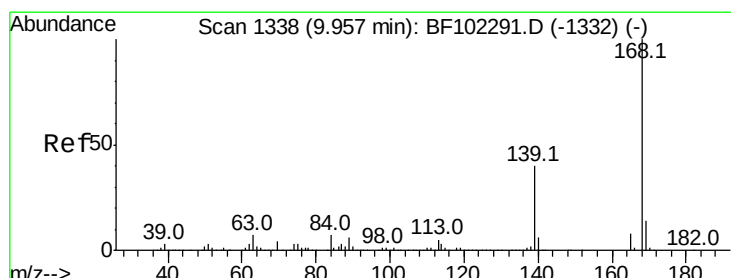
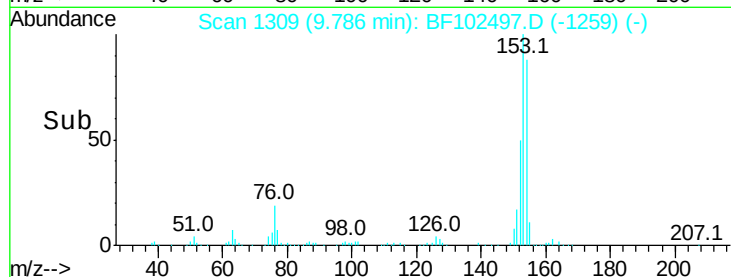
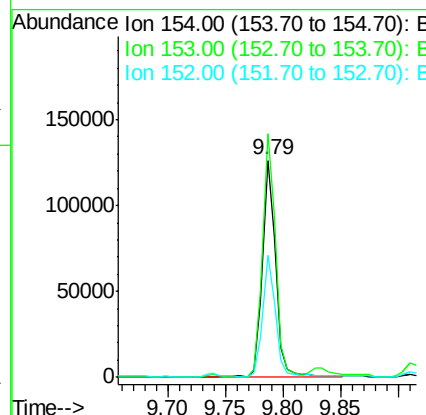
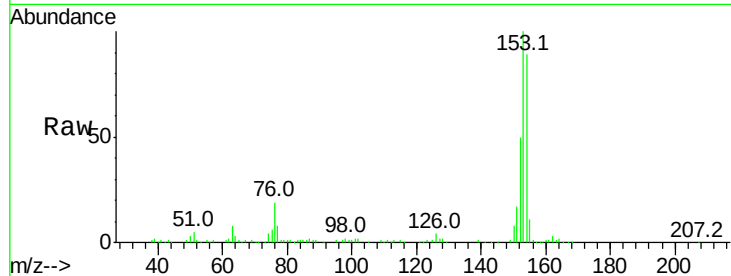
ClientSampleId :

PL-02-012418-BDL

Tot Ion:	154	Resp:	103505
Ion Ratio	Lower	Upper	
154	100		
153	112.1	91.2	136.8
152	56.0	43.8	65.8

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#54

Dibenzofuran

Concen: 5.471 ng

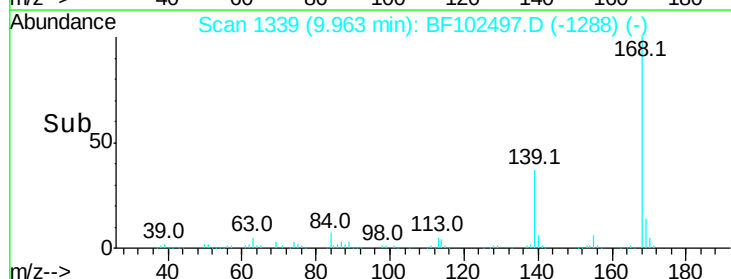
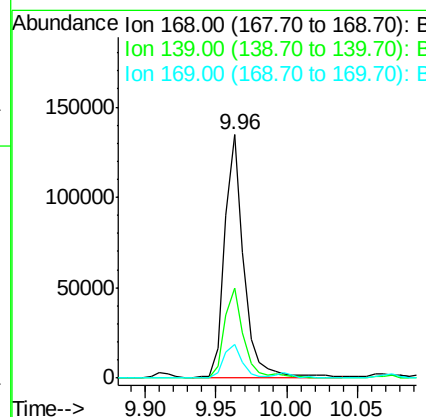
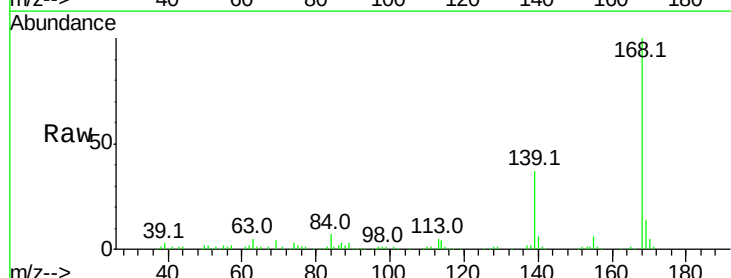
RT: 9.96 min Scan# 1339

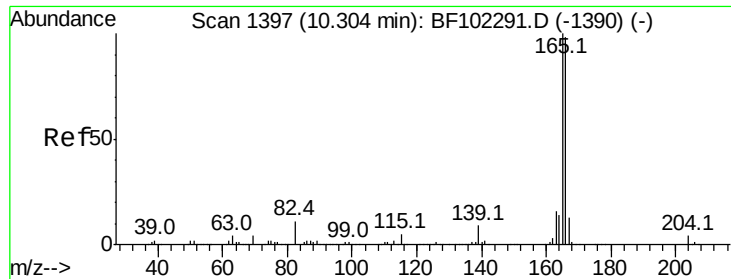
Delta R.T. 0.00 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Tgt Ion:	168	Resp:	128411
Ion Ratio	Lower	Upper	
168	100		
139	36.8	30.1	45.1
169	14.1	10.9	16.3





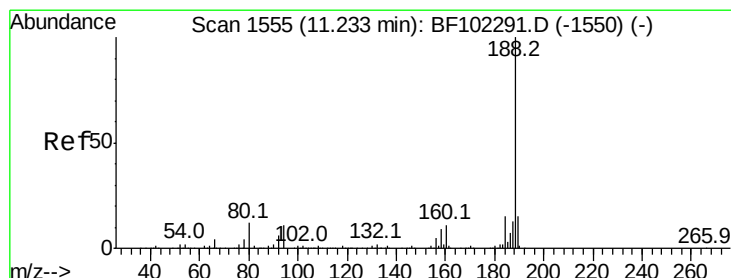
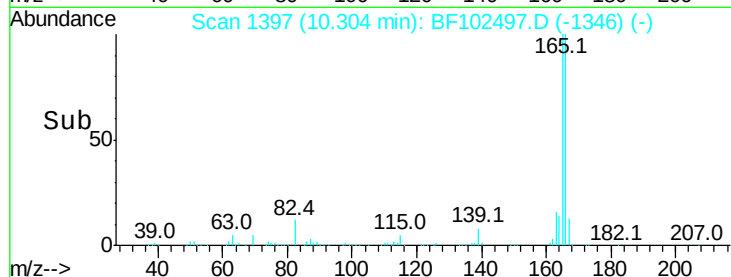
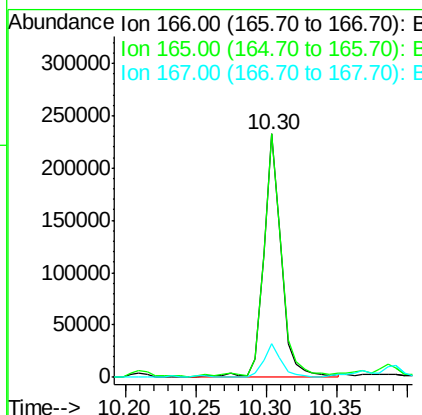
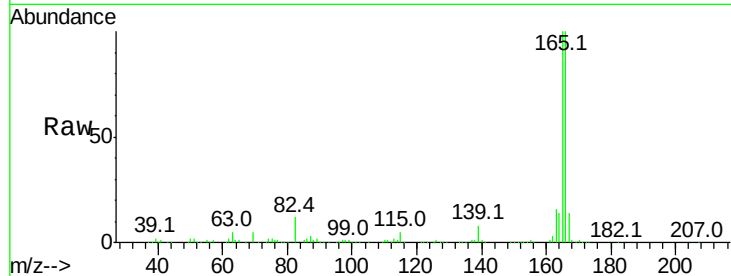
#57
 Fluorene
 Concen: 10.981 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-012418-BDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.8	119.8
167	13.6	10.6	16.0

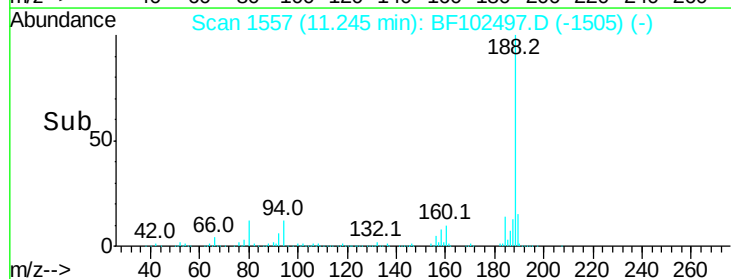
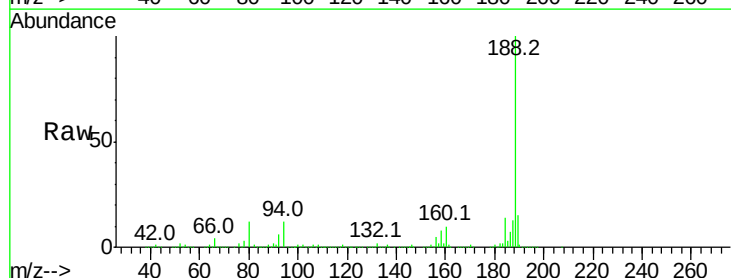
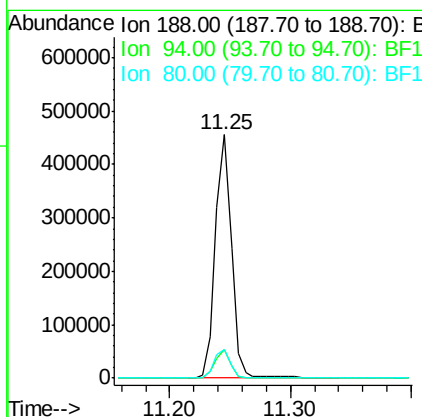
Manual Integrations
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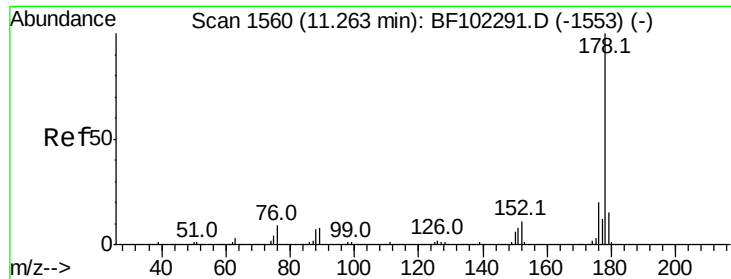
Sohil
 1/27/2018 1:47:41 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.01 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.7	8.5	12.7
80	11.6	9.2	13.8





#70

Phenanthrene

Concen: 50.256 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

ClientSampleId :

PL-02-012418-BDL

Tot Ion:178 Resp: 1218091

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

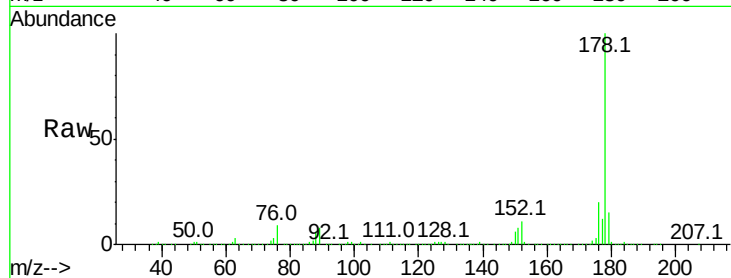
179 14.9 13.0 19.6

Manual Integrations

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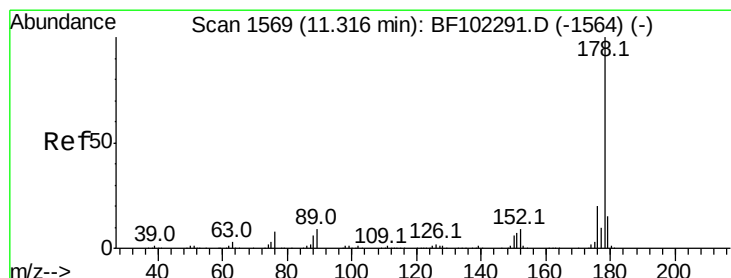
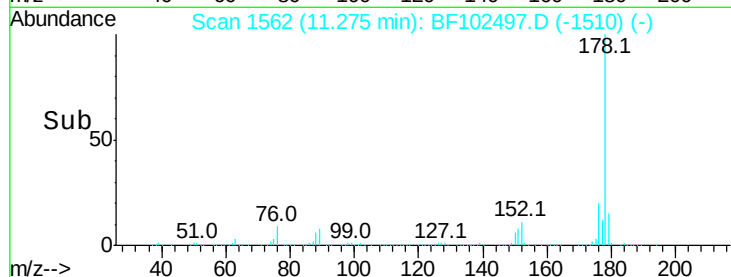
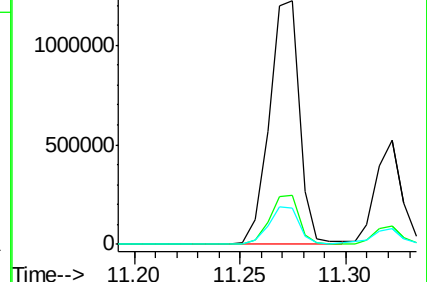
1/27/2018 1:47:41 PM



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



#71

Anthracene

Concen: 18.743 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

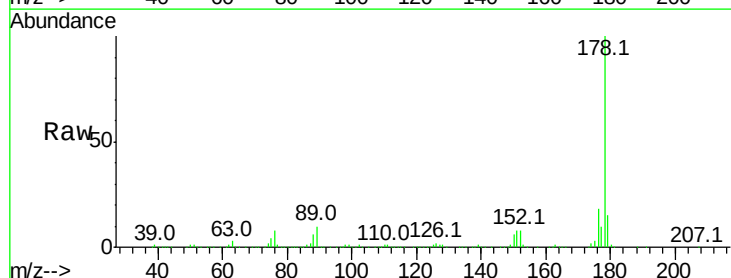
Tgt Ion:178 Resp: 463694

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

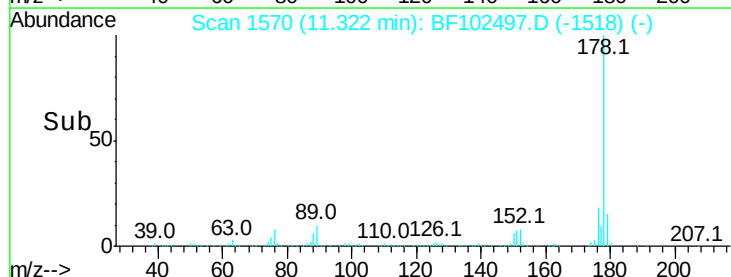
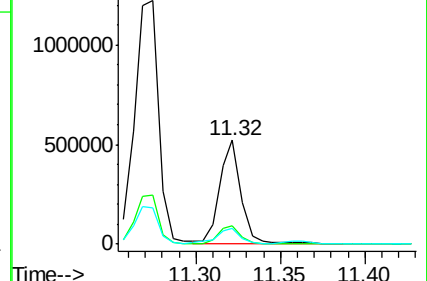
179 15.4 12.6 19.0

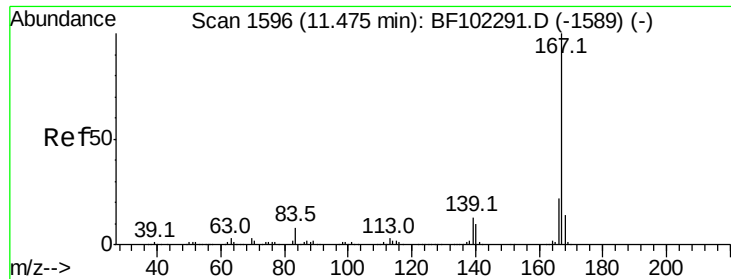


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





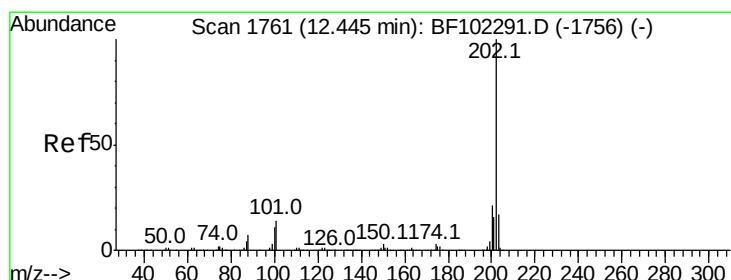
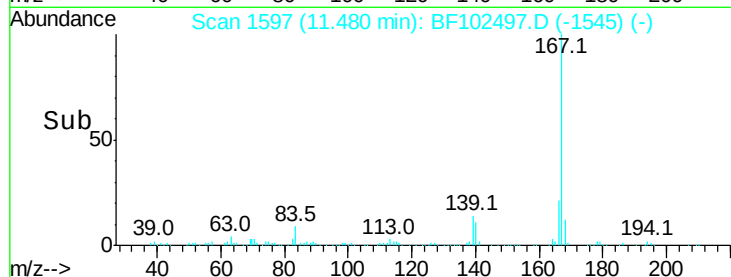
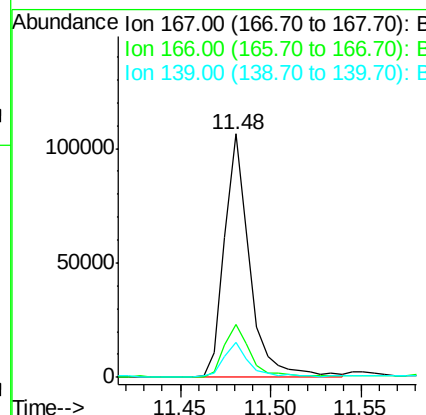
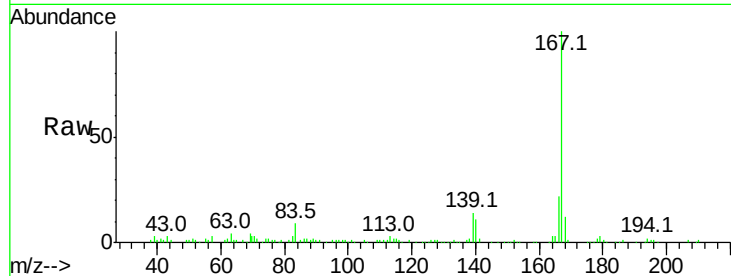
#72
 Carbazole
 Concen: 4.278 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. 0.01 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-012418-BDL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	14.2	10.9	16.3

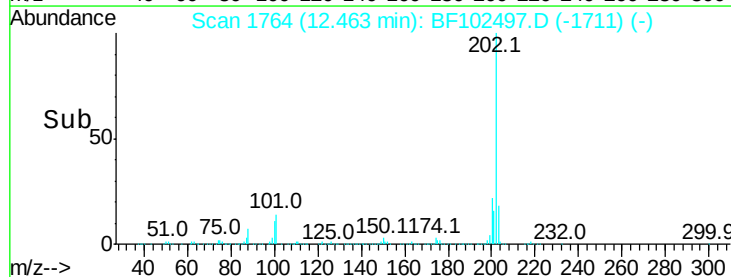
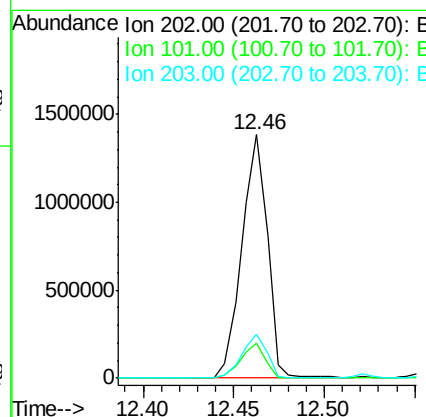
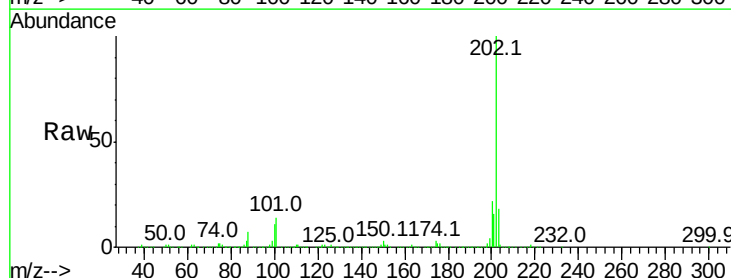
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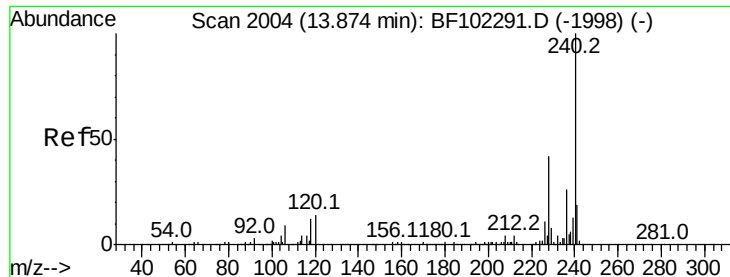
Sohil
 1/27/2018 1:47:41 PM



#74
 Fluoranthene
 Concen: 54.749 ng
 RT: 12.46 min Scan# 1764
 Delta R.T. 0.01 min
 Lab File: BF102497.D
 Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

ClientSampleId :

PL-02-012418-BDL

Tot Ion:240 Resp: 295406

Ion Ratio Lower Upper

240 100

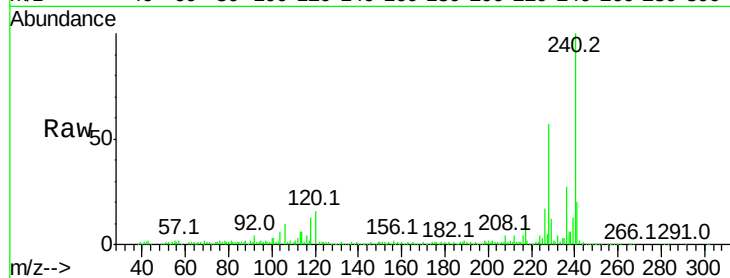
120 15.7 9.5 14.3#

236 26.6 20.7 31.1

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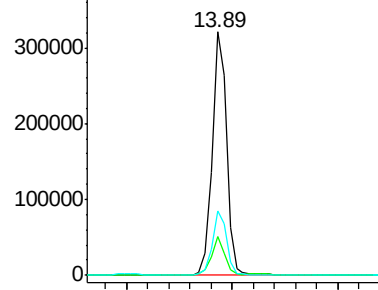
1/27/2018 1:47:41 PM



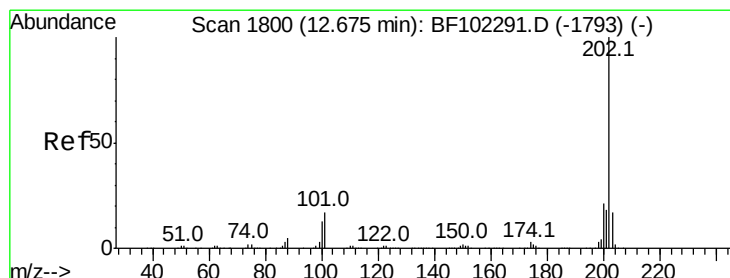
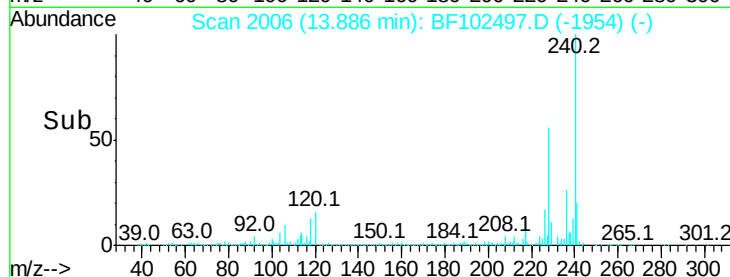
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 51.656 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

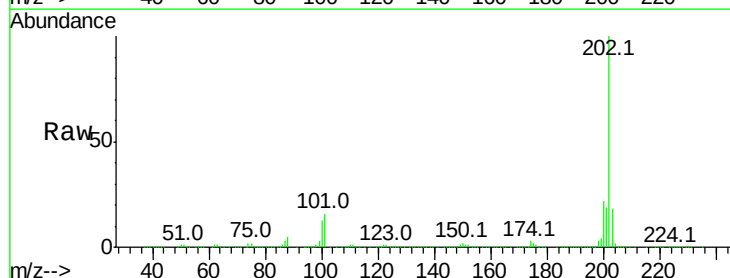
Tgt Ion:202 Resp: 1179809

Ion Ratio Lower Upper

202 100

200 22.2 17.4 26.2

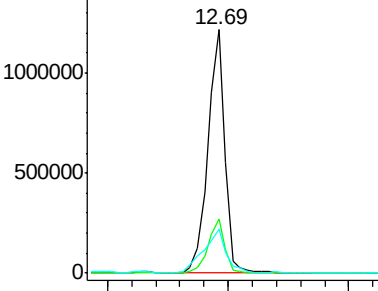
203 18.0 14.3 21.5



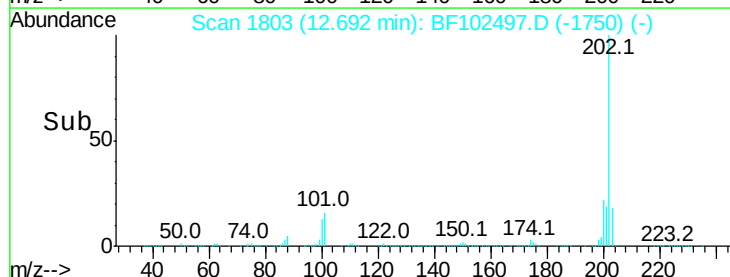
Abundance Ion 202.00 (201.70 to 202.70): E

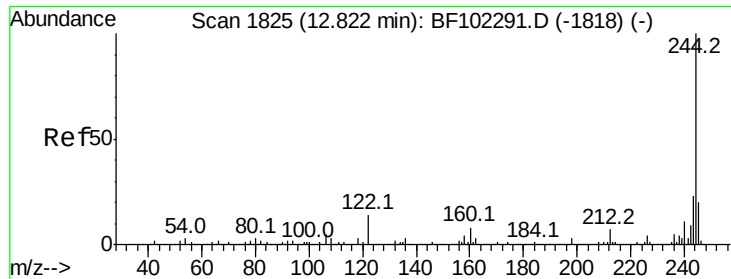
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#78

Terphenyl-d14

Concen: 19.848 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

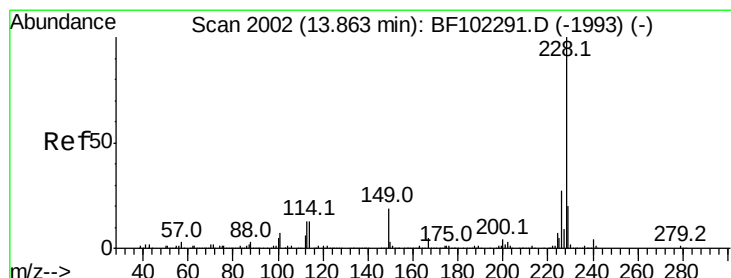
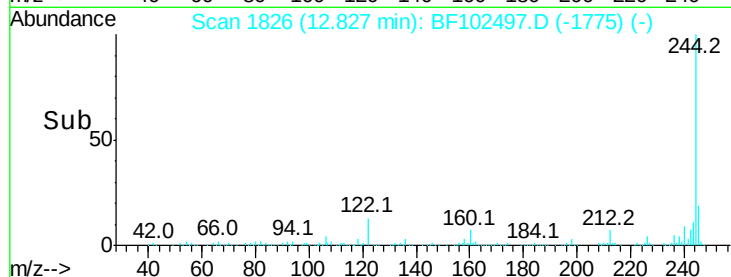
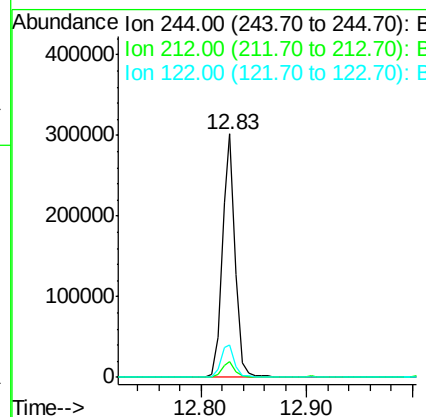
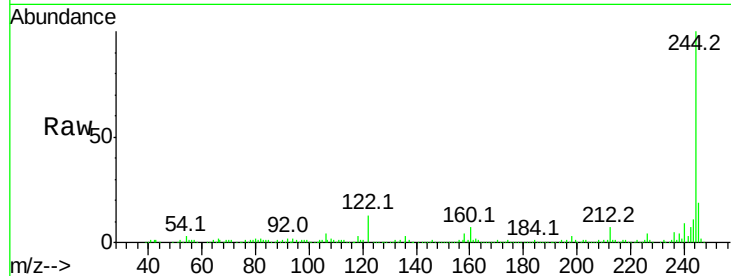
ClientSampleId :

PL-02-012418-BDL

Tot Ion:	244	Resp:	260089
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	13.3	11.0	16.4

Manual Integrations
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1/27/2018 1:47:41 PM



#80

Benzo(a)anthracene

Concen: 27.438 ng

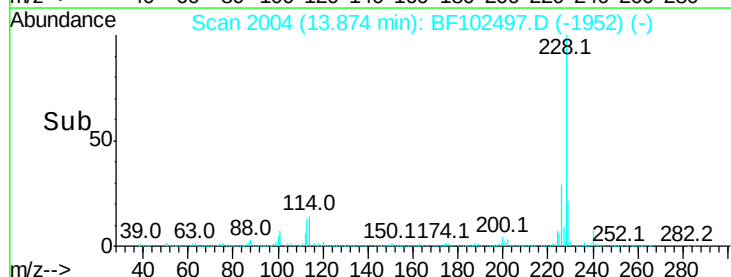
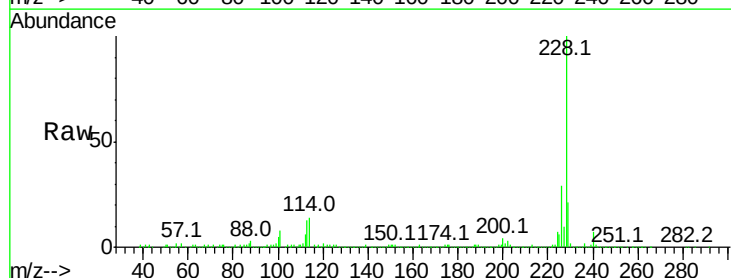
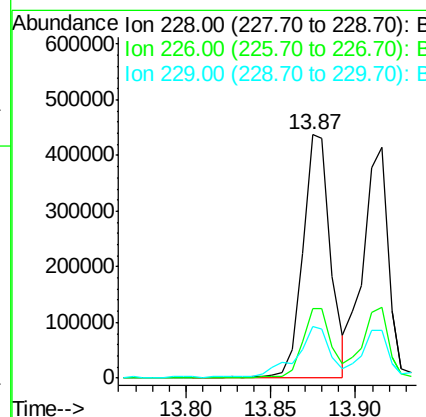
RT: 13.87 min Scan# 2004

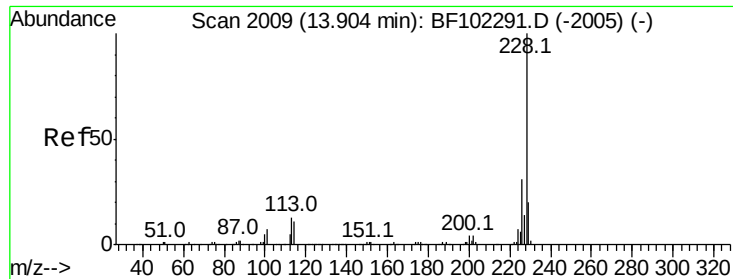
Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Tgt Ion:	228	Resp:	499026
Ion Ratio	Lower	Upper	
228	100		
226	28.8	22.6	33.8
229	21.0	15.8	23.6





#82

Chrysene

Concen: 23.545 ng

RT: 13.92 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

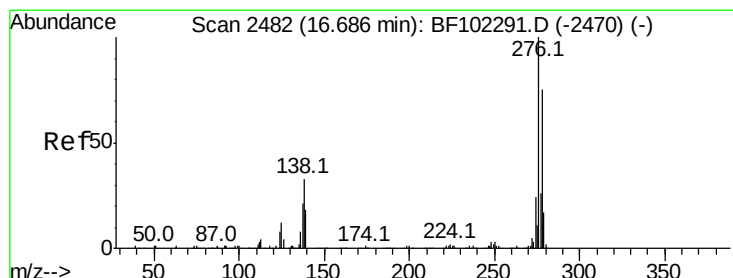
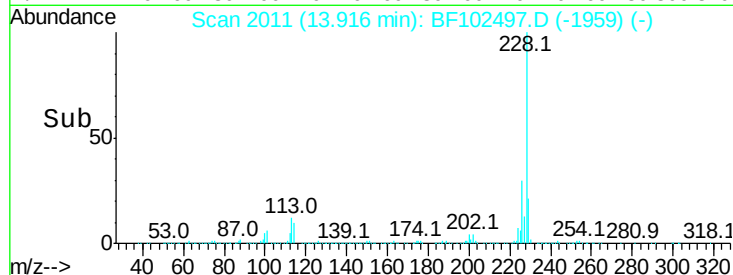
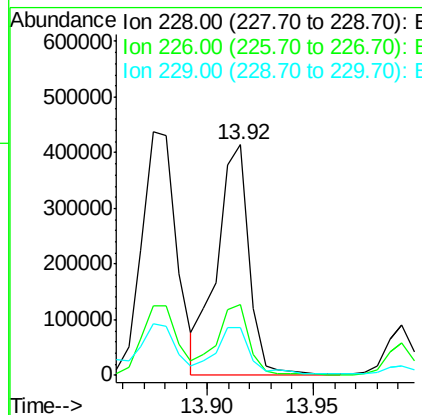
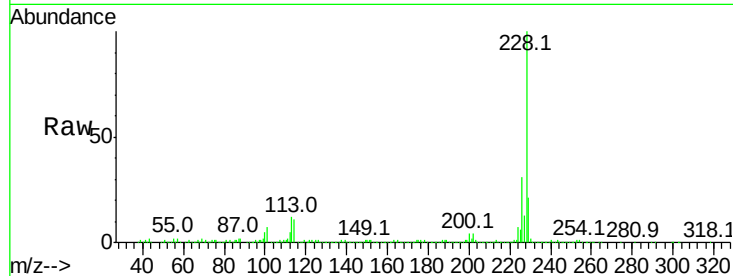
ClientSampleId :

PL-02-012418-BDL

Tot Ion:	228	Resp:	434858
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.6
229	20.9	16.2	24.4

Manual Integrations
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1/27/2018 1:47:41 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.394 ng

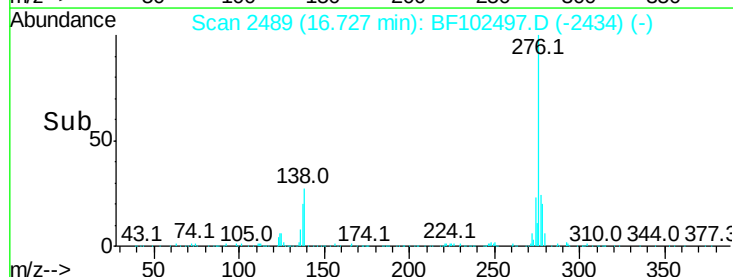
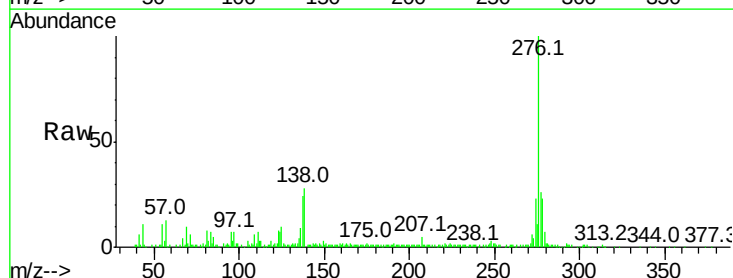
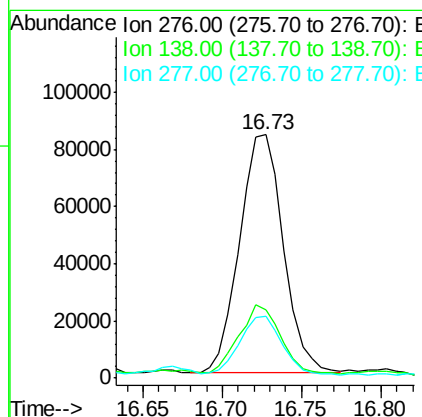
RT: 16.73 min Scan# 2489

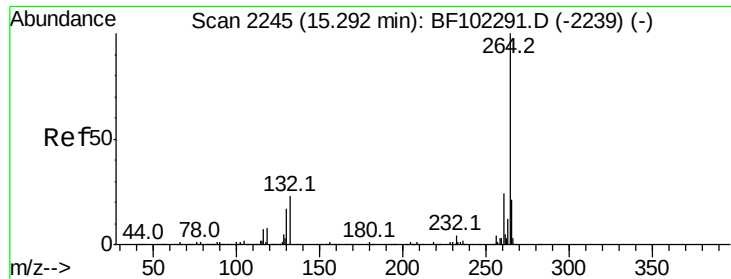
Delta R.T. 0.02 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Tgt Ion:	276	Resp:	158540
Ion Ratio	Lower	Upper	
276	100		
138	28.0	25.0	37.6
277	24.2	20.1	30.1





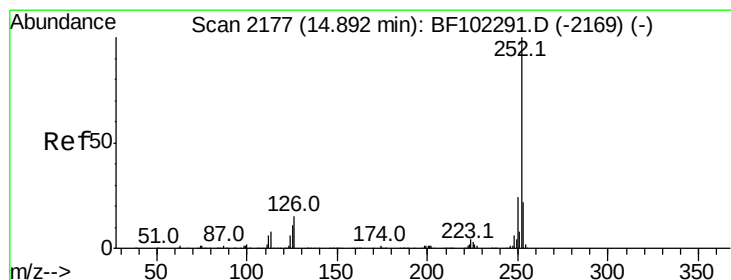
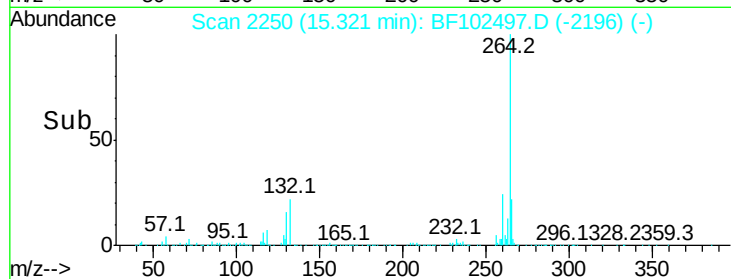
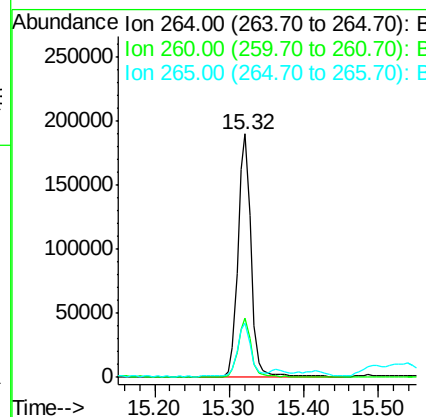
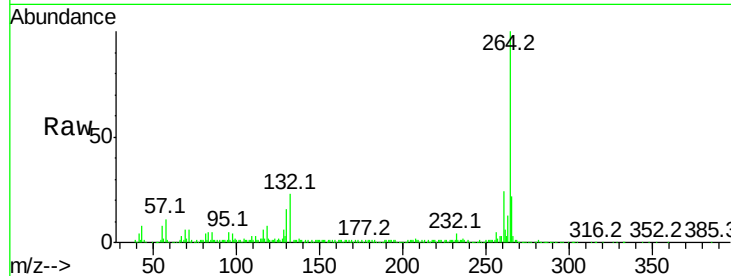
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.02 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Instrument :
BNA_F
ClientSampleId :
PL-02-012418-BDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.5	17.5	26.3

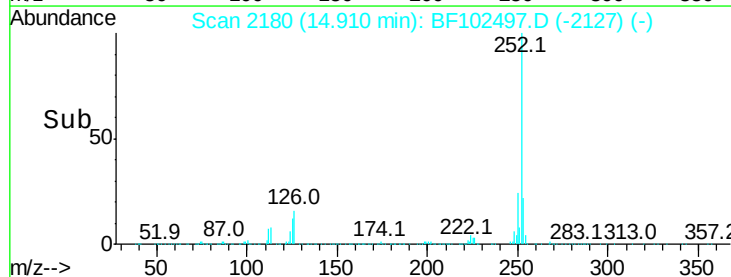
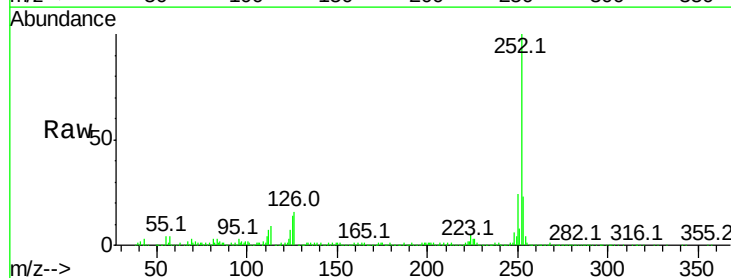
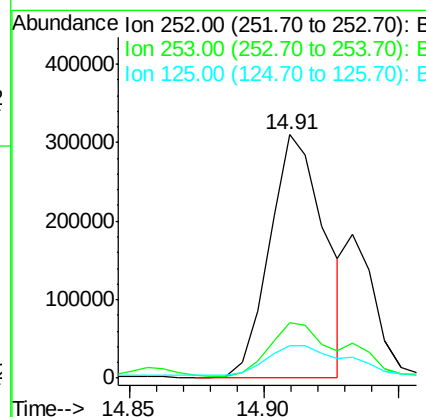
Manual Integrations
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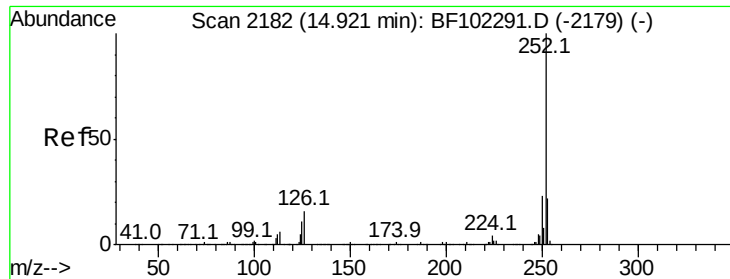
Sohil
1/27/2018 1:47:41 PM



#87
Benzo(b)fluoranthene
Concen: 29.038 ng m
RT: 14.91 min Scan# 2180
Delta R.T. 0.01 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	13.5	9.0	13.6





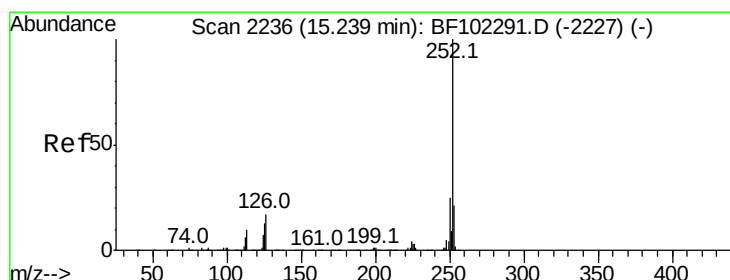
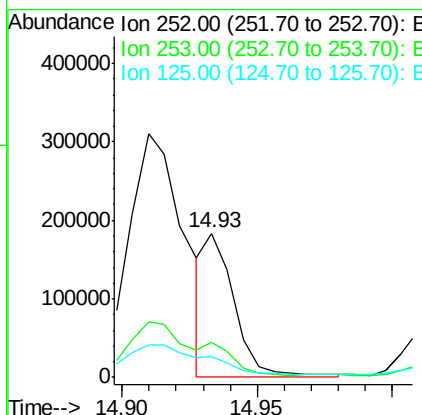
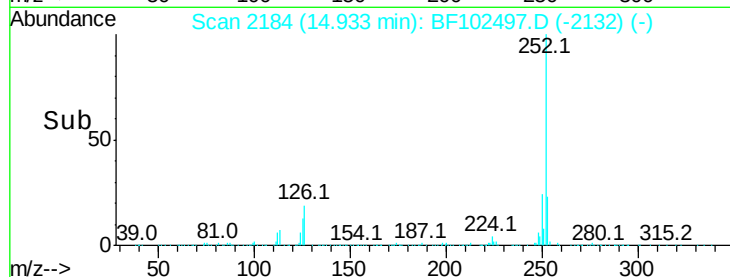
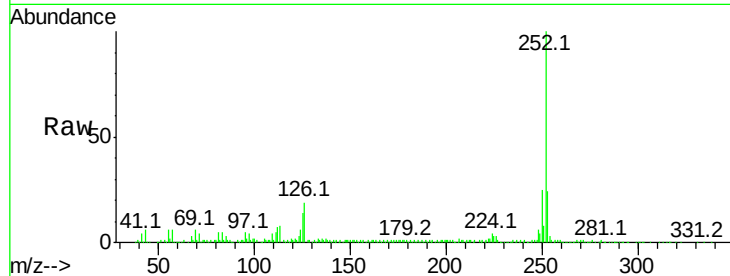
#88
Benzo(k)fluoranthene
Concen: 9.785 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.01 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Instrument :
BNA_F
ClientSampleId :
PL-02-012418-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	14.5	10.2	15.2

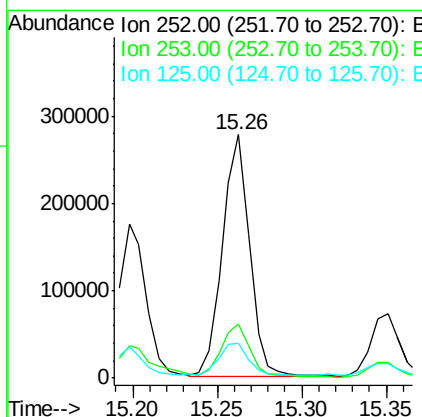
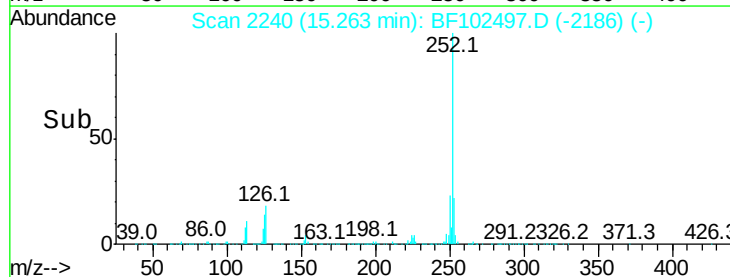
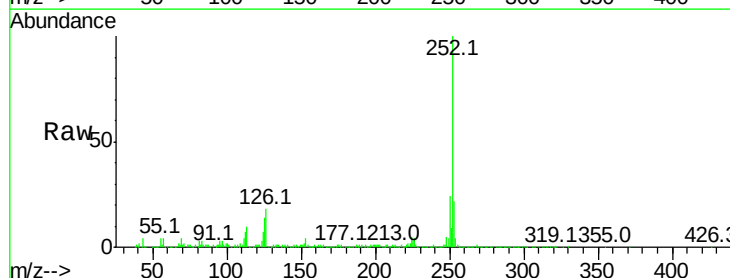
Manual Integrations
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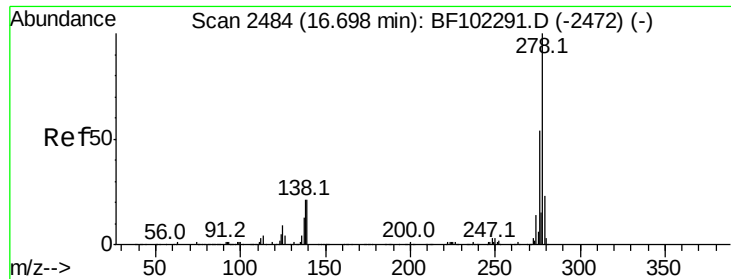
Sohil
1/27/2018 1:47:41 PM



#89
Benzo(a)pyrene
Concen: 22.934 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.02 min
Lab File: BF102497.D
Acq: 27 Jan 2018 5:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	14.4	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 3.385 ng

RT: 16.73 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Instrument :

BNA_F

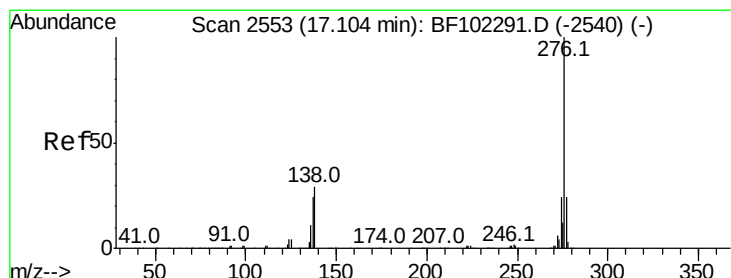
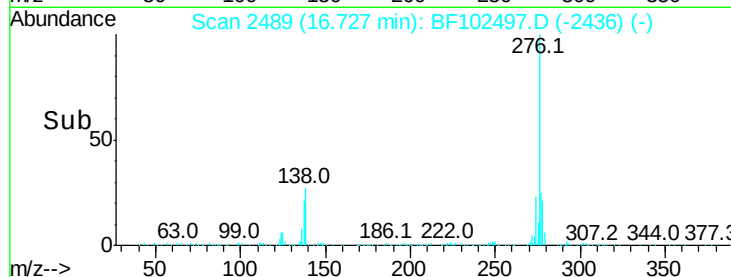
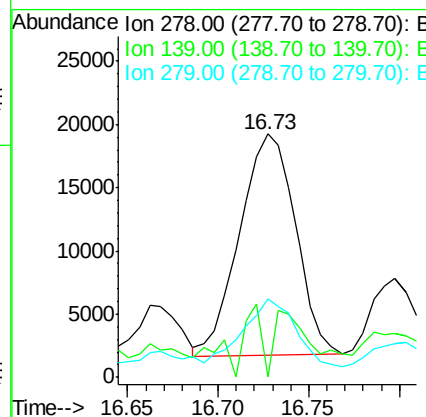
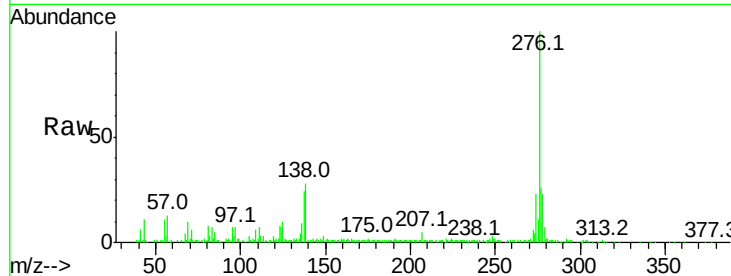
ClientSampleId :

PL-02-012418-BDL

Tot Ion:	278	Resp:	37522
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	32.4	19.0	28.4#

Manual Integrations
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Sohil
1/27/2018 1:47:41 PM



#91

Benzo(g,h,i)perylene

Concen: 14.692 ng

RT: 17.15 min Scan# 2561

Delta R.T. 0.02 min

Lab File: BF102497.D

Acq: 27 Jan 2018 5:53

Tgt Ion:	276	Resp:	160806
Ion Ratio	Lower	Upper	
276	100		
277	24.9	17.9	26.9
138	27.7	21.8	32.8

