

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100119\
 Data File : BF117283.D
 Acq On : 1 Oct 2019 18:15
 Operator : JU
 Sample : K4668-16RE 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-092619RE

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Quant Time: Oct 01 18:46:00 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	51951	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	207236	20.00	ng	-0.02
39) Acenaphthene-d10	9.84	164	97108	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	121163	20.00	ng	0.00
76) Chrysene-d12	13.97	240	83109	20.00	ng	0.00
87) Perylene-d12	15.43	264	83369	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	150475	45.22	ng	-0.01
7) Phenol-d6	6.45	99	205346	47.75	ng	-0.01
23) Nitrobenzene-d5	7.37	82	128542	32.59	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	30874	38.04	ng	-0.02
45) 2-Fluorobiphenyl	9.16	172	228623	36.81	ng	-0.02
79) Terphenyl-d14	12.91	244	147862	33.26	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Acenaphthylene	9.70	152	19564	2.172	ng	97
50) Dimethylphthalate	9.56	163	24203	3.520	ng	# 96
71) Phenanthrene	11.35	178	64775	9.412	ng	98
72) Anthracene	11.40	178	27581	3.926	ng	96
75) Fluoranthene	12.55	202	173222	24.497	ng	97
78) Pyrene	12.77	202	161952	23.224	ng	97
81) Benzo(a)anthracene	13.96	228	98739	17.782	ng	98
83) Chrysene	13.99	228	82681	15.267	ng	96
86) Indeno(1,2,3-cd)pyrene	16.87	276	36402	9.213	ng	95
88) Benzo(b)fluoranthene	15.00	252	104526m	20.698	ng	
89) Benzo(k)fluoranthene	15.03	252	37838m	7.910	ng	
90) Benzo(a)pyrene	15.36	252	71350	16.101	ng	# 94
91) Dibenzo(a,h)anthracene	16.88	278	10545	2.987	ng	# 95
92) Benzo(g,h,i)perylene	17.32	276	34633	9.845	ng	97

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

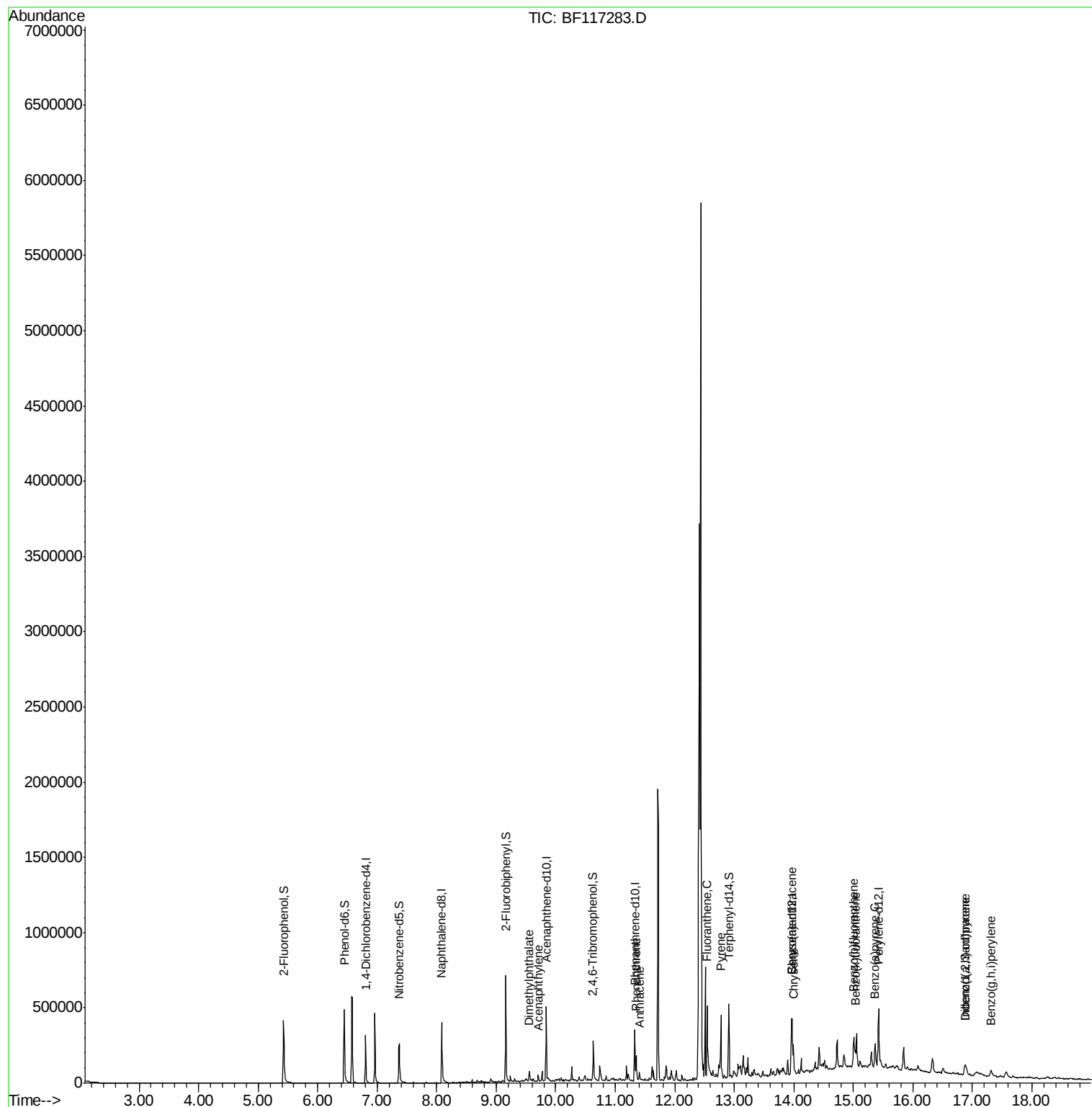
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100119\
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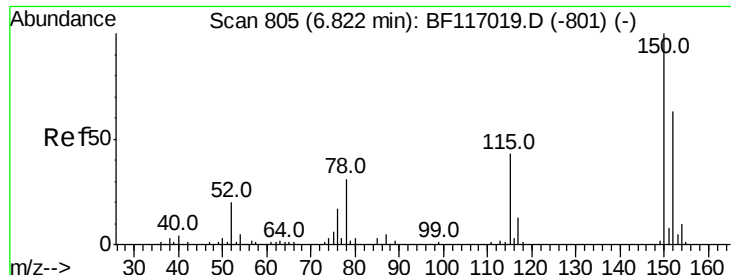
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#1

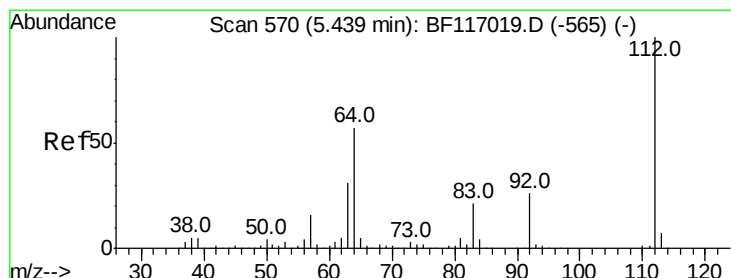
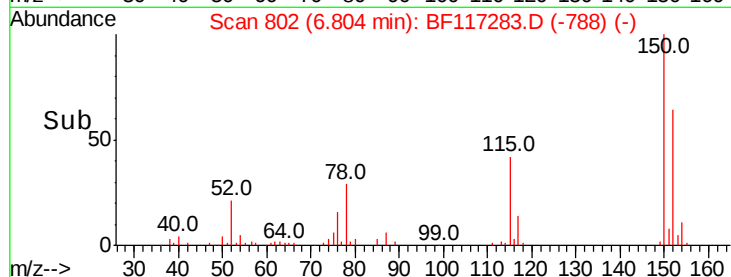
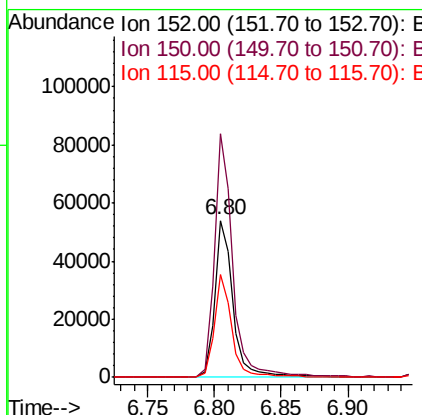
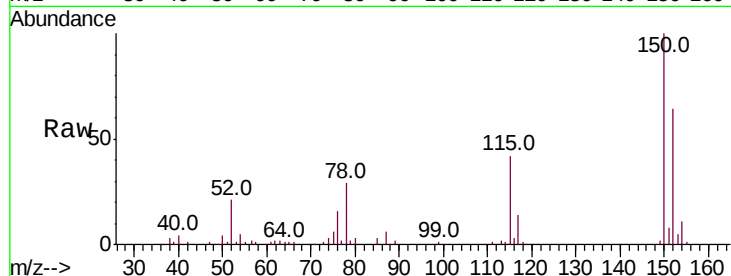
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.02 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Instrument :
BNA_F
ClientSampleId :
SU-04-092619RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.5	191.3
115	65.8	55.0	82.4

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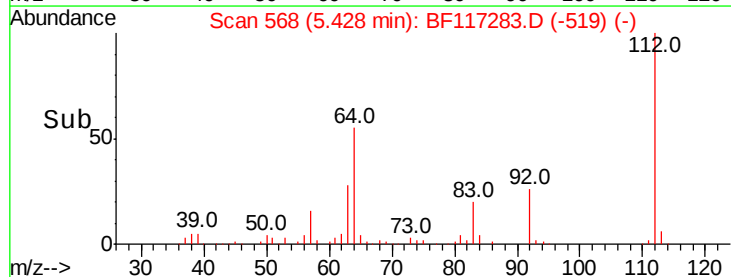
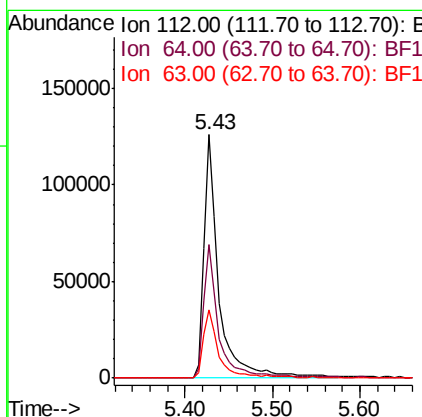
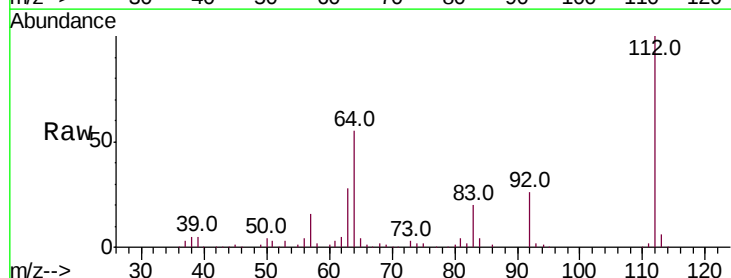
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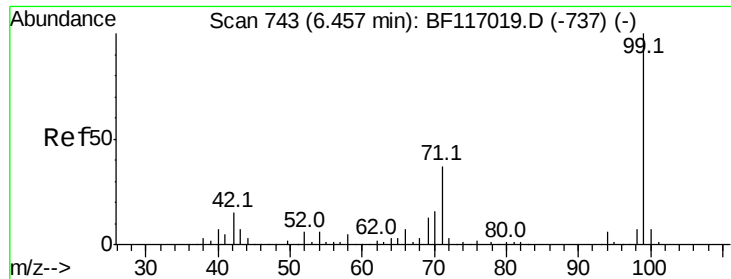


#5

2-Fluorophenol
Concen: 45.221 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	45.7	68.5
63	27.9	24.9	37.3





#7

Phenol-d6

Concen: 47.751 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Instrument :

BNA_F

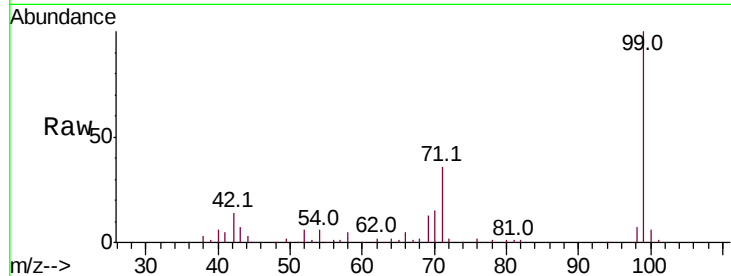
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SU-04-092619RE

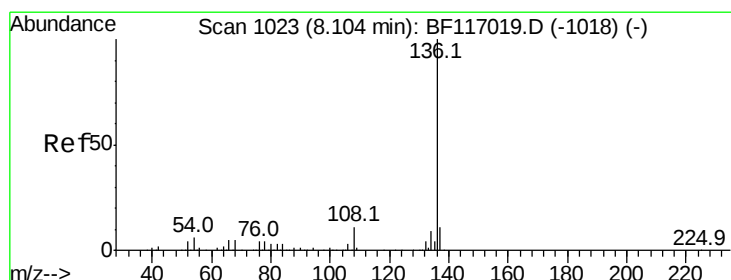
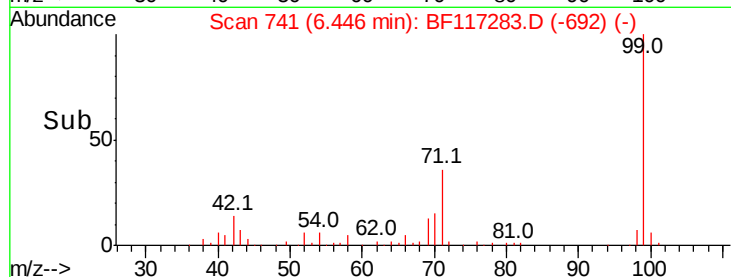
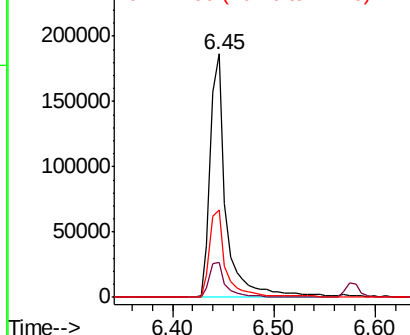
Tot Ion:	99	Resp:	205346
Ion Ratio	Lower	Upper	
99	100		
42	14.1	12.2	18.2
71	36.0	29.8	44.8

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

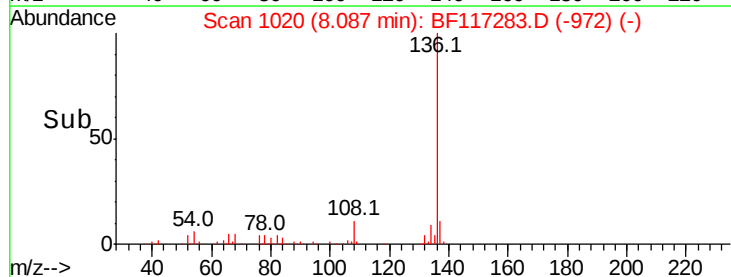
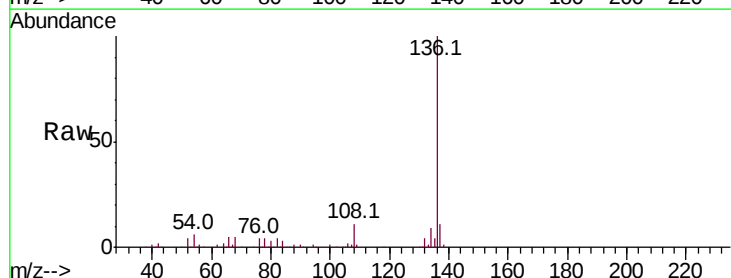
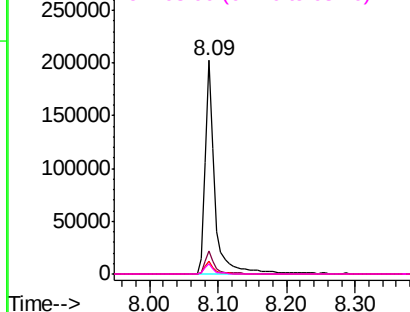
Delta R.T. -0.02 min

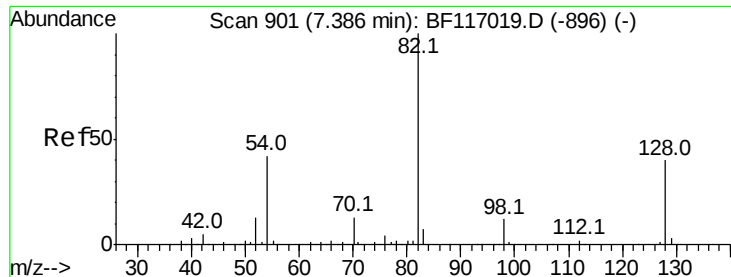
Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Tgt Ion:	136	Resp:	207236
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.0	13.4
54	5.8	4.5	6.7
68	5.0	4.0	6.0

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





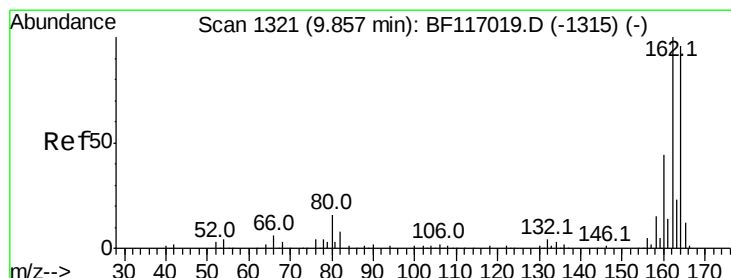
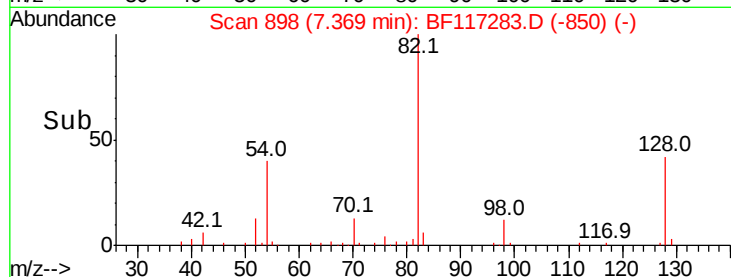
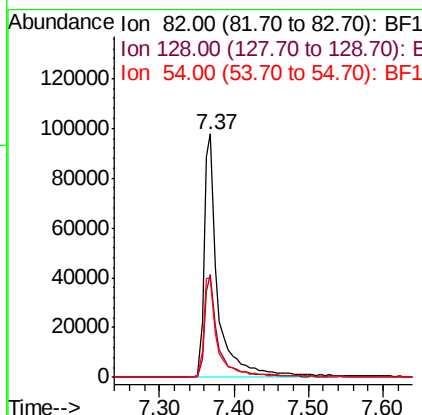
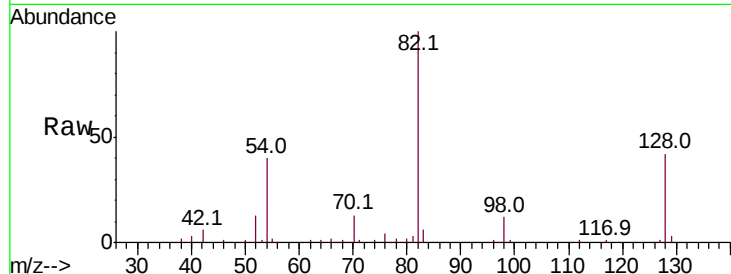
#23
 Nitrobenzene-d5
 Concen: 32.590 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.02 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Instrument :
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Tot Ion	82	Resp	128542
Ion Ratio	Lower	Upper	
82	100		
128	42.3	32.3	48.5
54	40.4	33.3	49.9

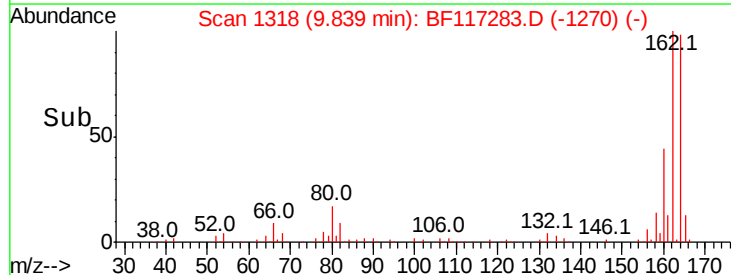
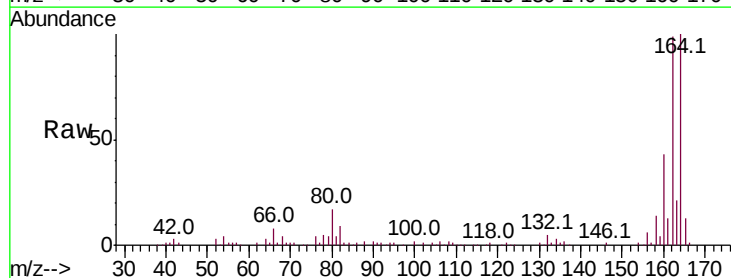
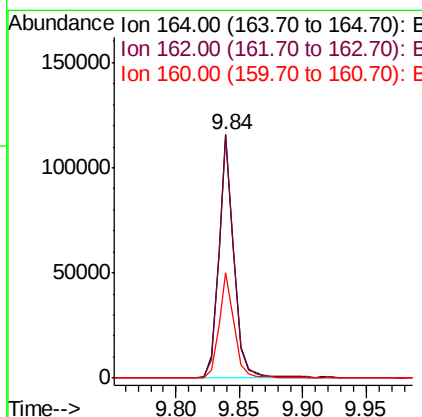
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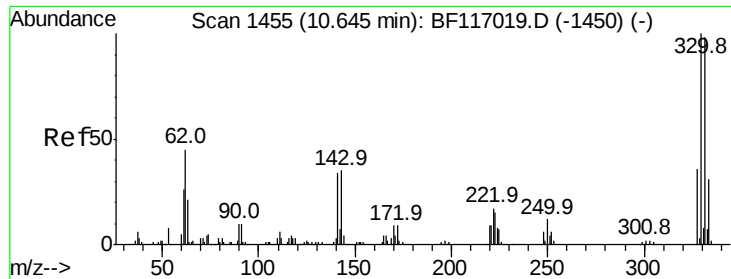
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Tgt Ion	164	Resp	97108
Ion Ratio	Lower	Upper	
164	100		
162	99.5	83.4	125.2
160	43.3	36.4	54.6





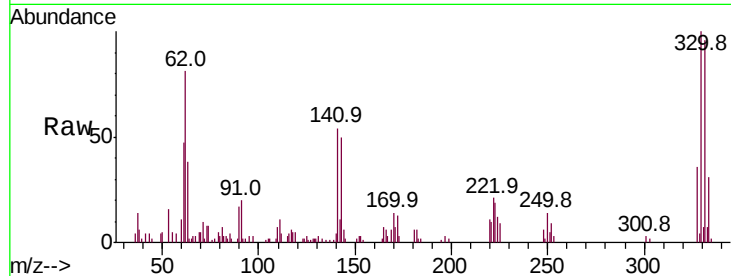
#42
 2,4,6-Tribromophenol
 Concen: 38.041 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.02 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-092619RE

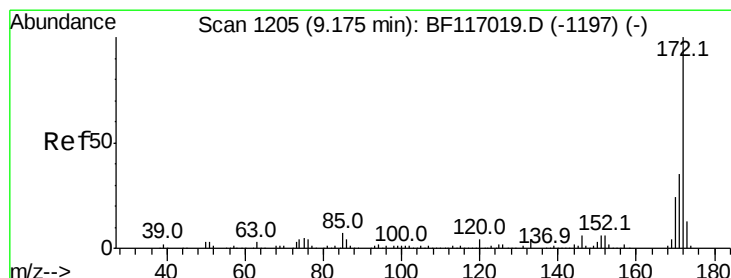
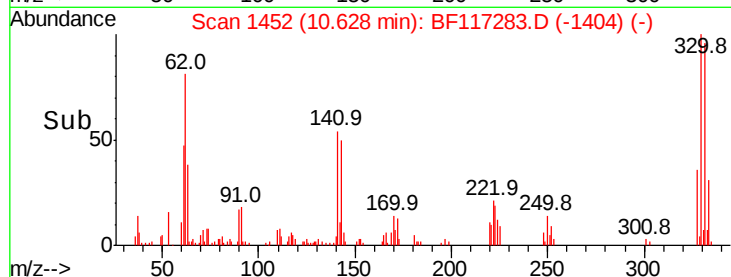
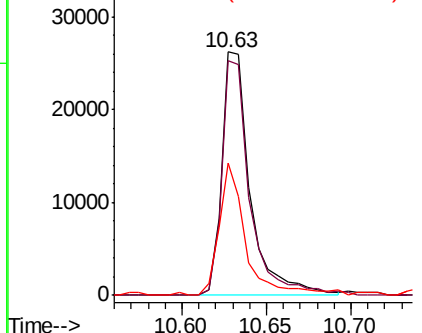
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.4	78.0	117.0
141	51.0	35.8	53.6

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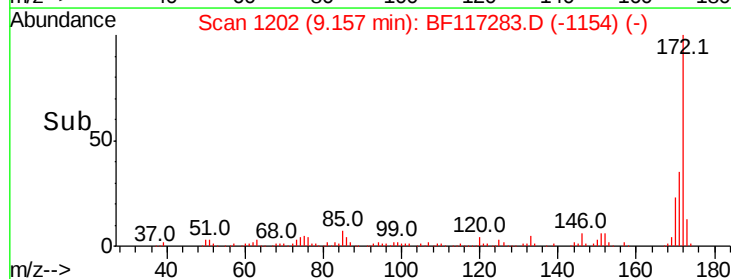
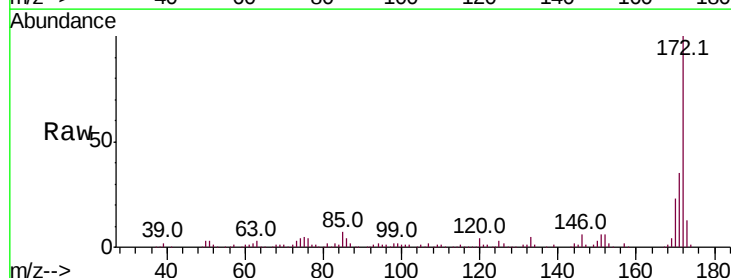
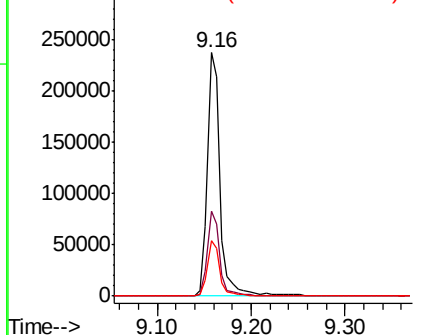
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

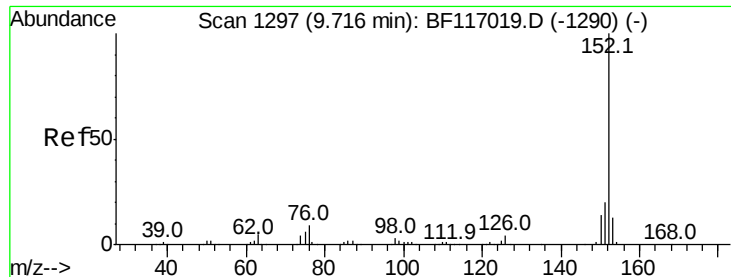


#45
 2-Fluorobiphenyl
 Concen: 36.812 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.02 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.2	42.2
170	22.7	18.9	28.3

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.172 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Instrument :

BNA_F

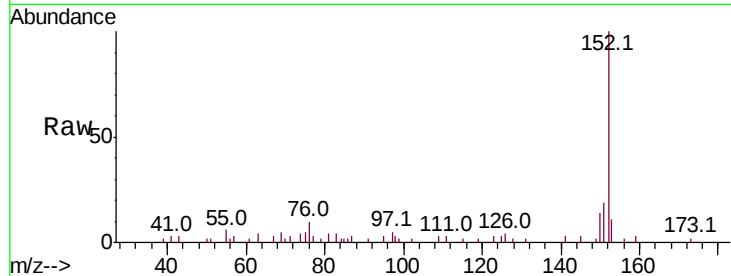
ClientSampleId :

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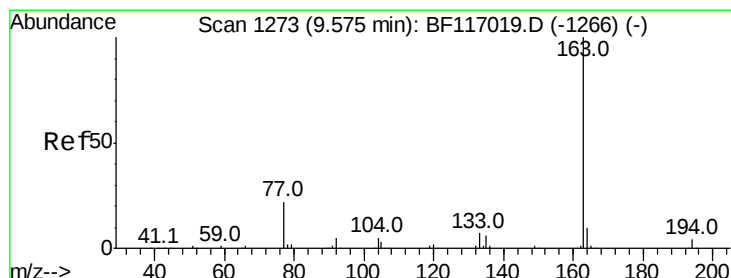
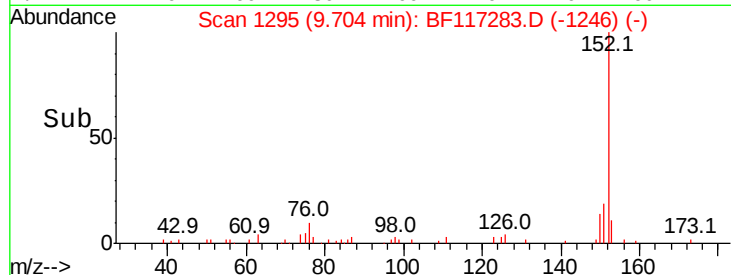
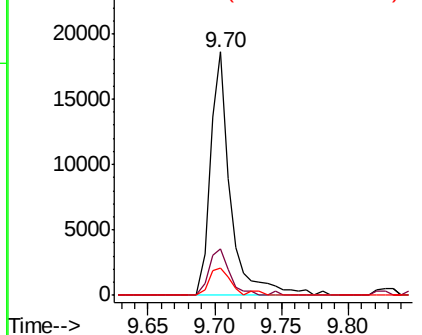
Tot Ion:	152	Resp:	19564
Ion Ratio	Lower	Upper	
152	100		
151	18.9	16.2	24.2
153	11.3	10.2	15.4

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.520 ng

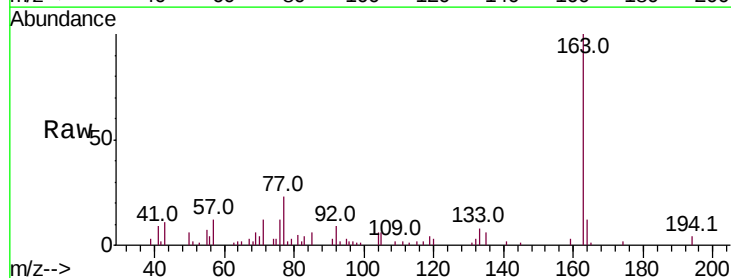
RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

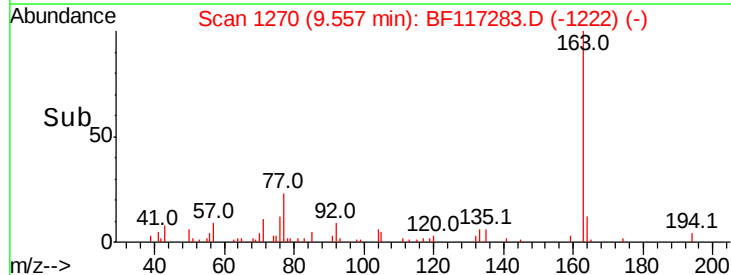
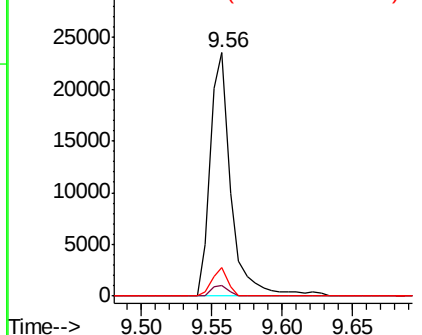
Lab File: BF117283.D

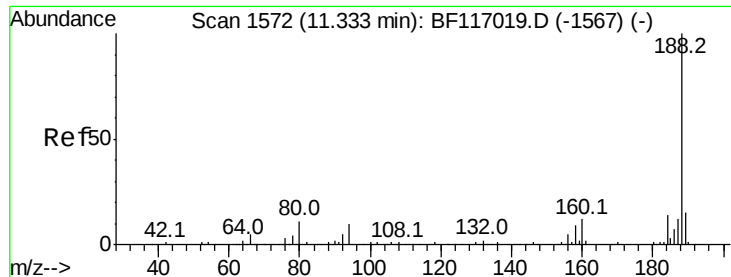
Acq: 1 Oct 2019 18:15

Tgt Ion:	163	Resp:	24203
Ion Ratio	Lower	Upper	
163	100		
194	4.4	2.9	4.3#
164	11.8	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Instrument :

BNA_F

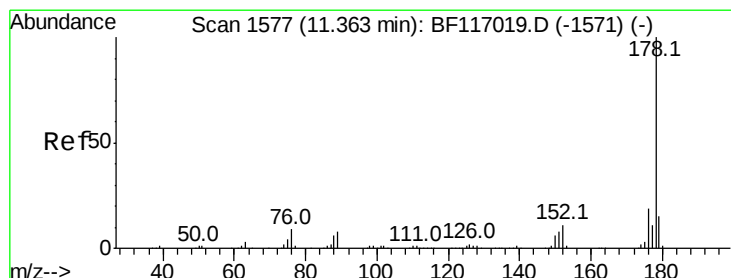
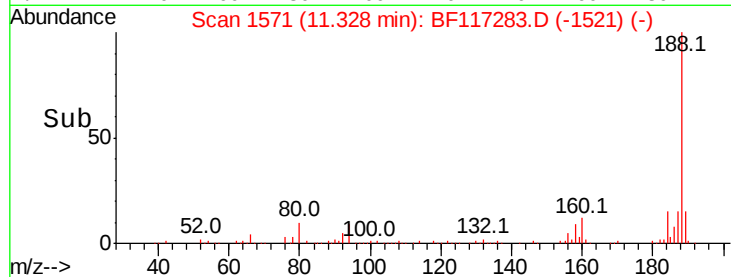
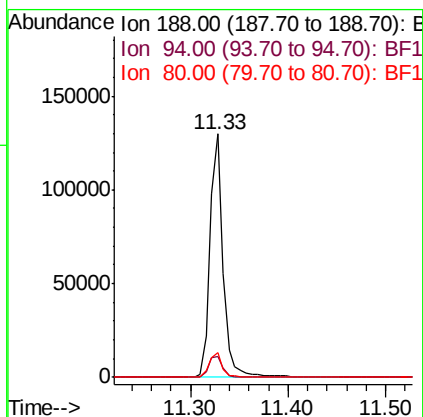
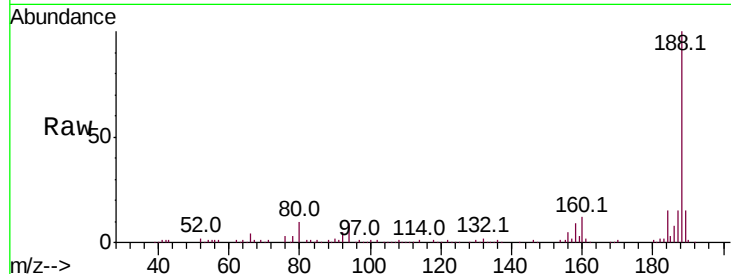
ClientSampleId :

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Tot Ion:	188	Resp:	121163
Ion Ratio	Lower	Upper	
188	100		
94	8.5	8.2	12.2
80	10.4	9.0	13.6

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#71

Phenanthrene

Concen: 9.412 ng

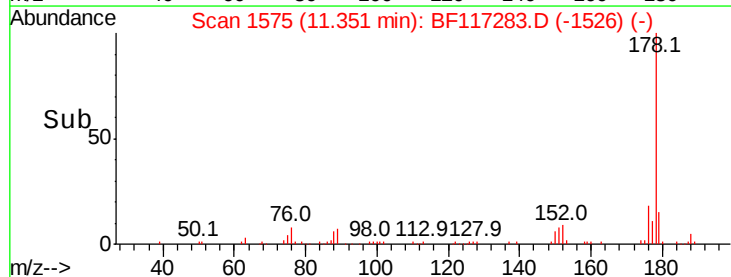
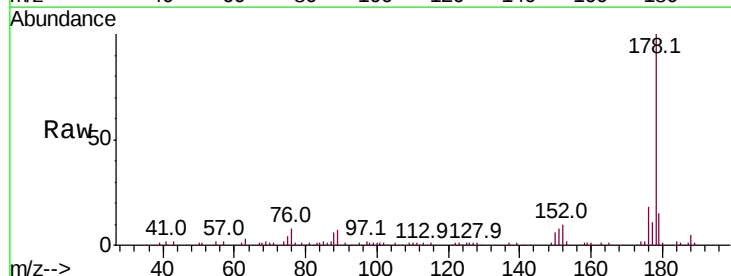
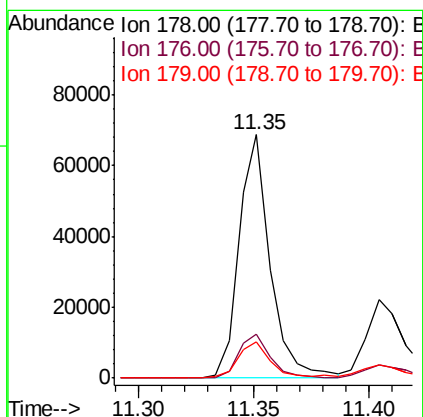
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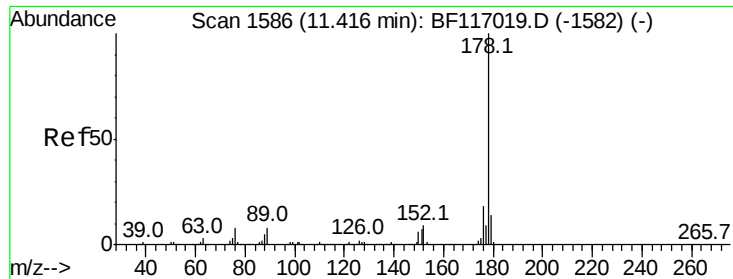
Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Tgt Ion:	178	Resp:	64775
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.4	23.2
179	15.0	12.4	18.6





#72

Anthracene

Concen: 3.926 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Instrument :

BNA_F

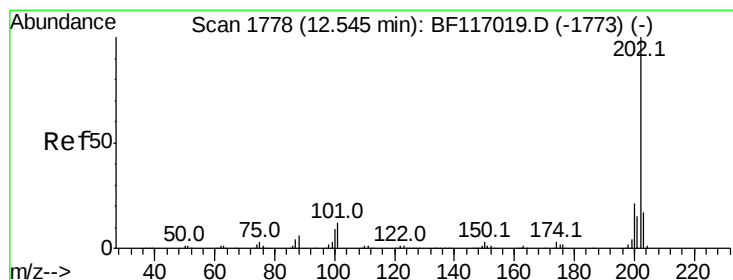
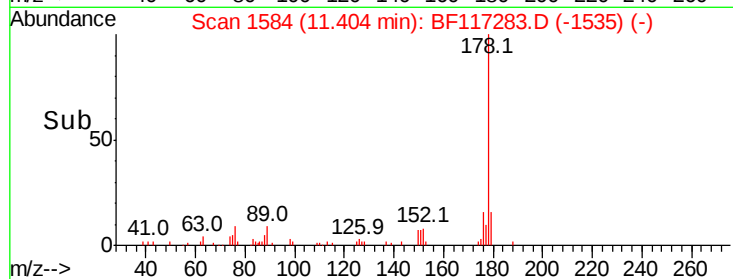
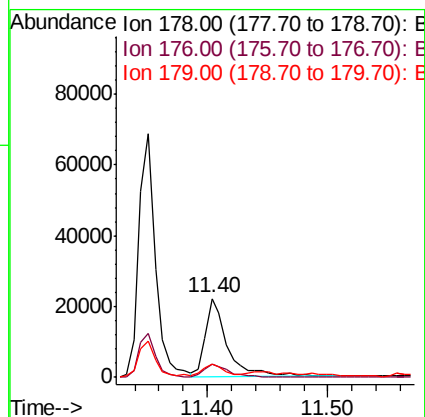
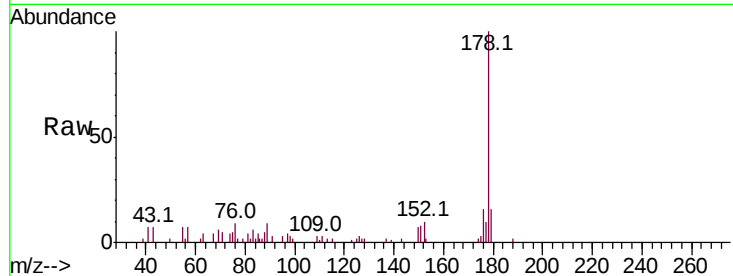
ClientSampleId :

SU-04-092619RE

Tot Ion:	178	Resp:	27581
Ion Ratio	Lower	Upper	
178	100		
176	16.2	14.6	21.8
179	16.0	11.6	17.4

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#75

Fluoranthene

Concen: 24.497 ng

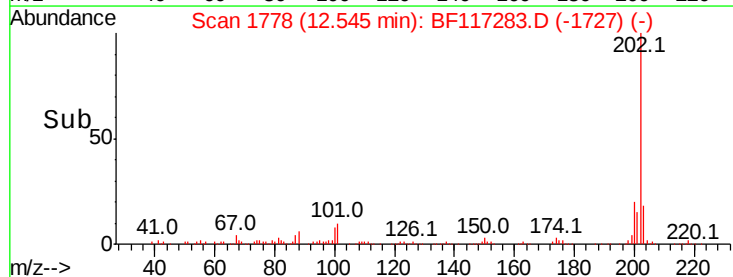
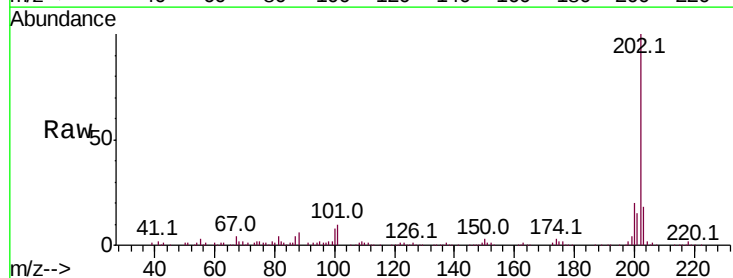
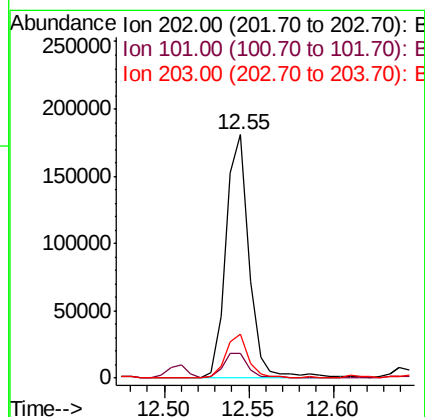
RT: 12.55 min Scan# 1778

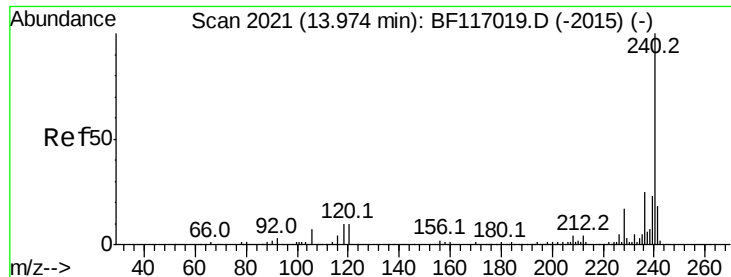
Delta R.T. 0.00 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Tgt Ion:	202	Resp:	173222
Ion Ratio	Lower	Upper	
202	100		
101	10.3	0.0	32.3
203	17.9	0.0	37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Instrument :

BNA_F

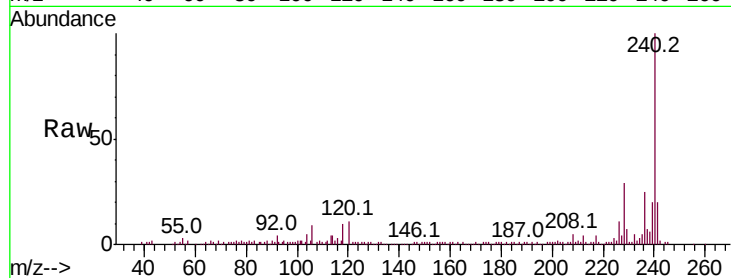
ClientSampleId :

SU-04-092619RE

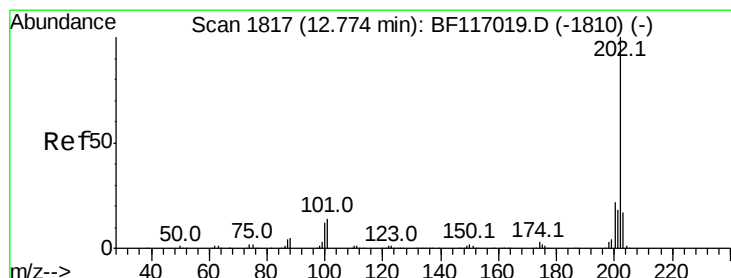
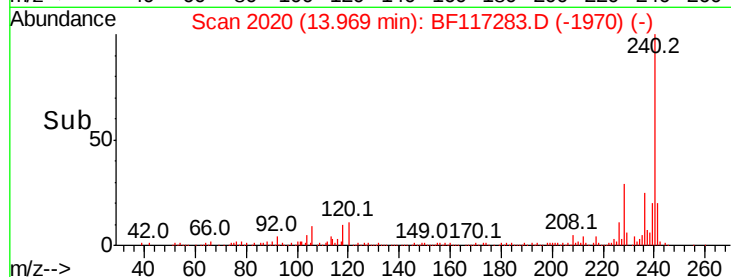
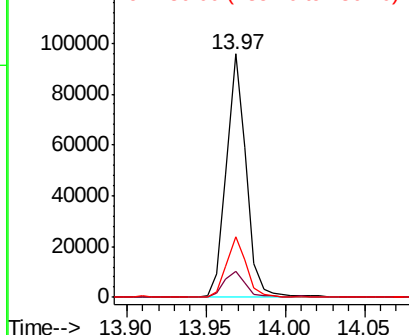
Tot Ion:	240	Resp:	83109
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.3	12.5
236	24.9	20.3	30.5

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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: 23.224 ng

RT: 12.77 min Scan# 1817

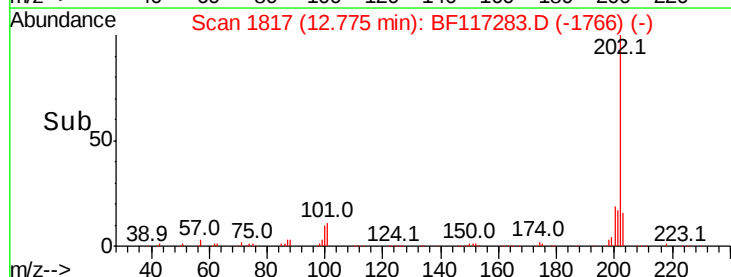
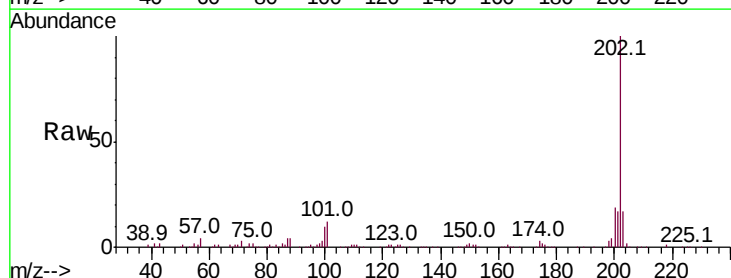
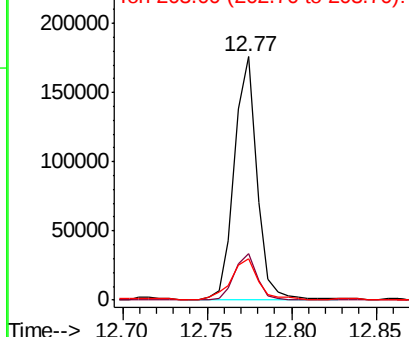
Delta R.T. 0.00 min

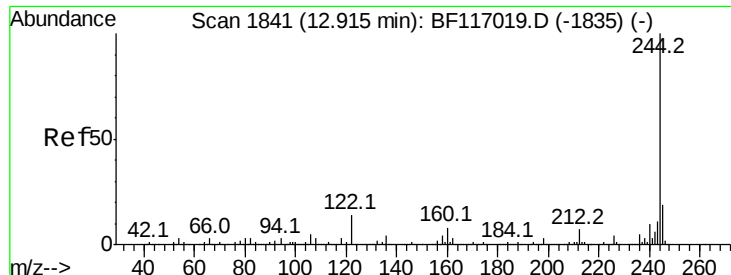
Lab File: BF117283.D

Acq: 1 Oct 2019 18:15

Tgt Ion:	202	Resp:	161952
Ion Ratio	Lower	Upper	
202	100		
200	19.3	17.2	25.8
203	16.8	14.0	21.0

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





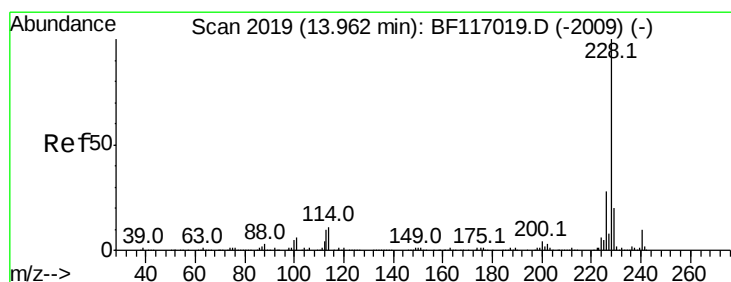
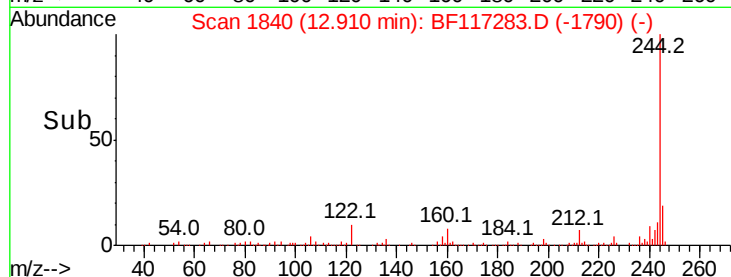
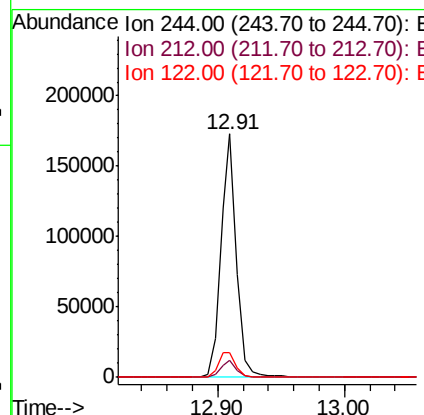
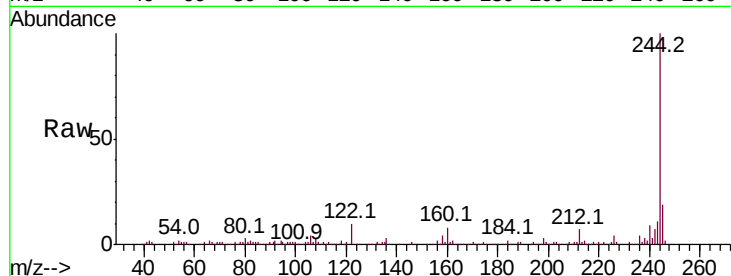
#79
 Terphenyl-d14
 Concen: 33.256 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-092619RE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.2	11.3	16.9#

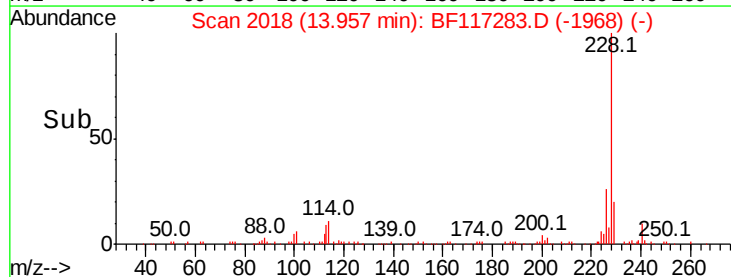
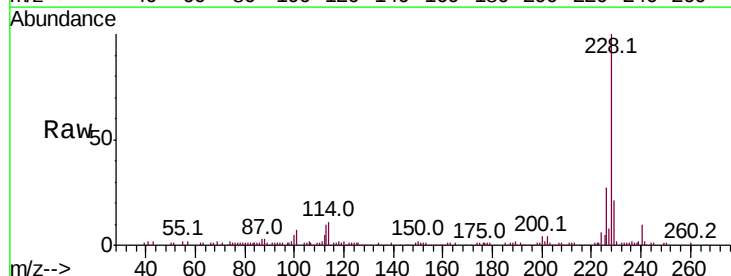
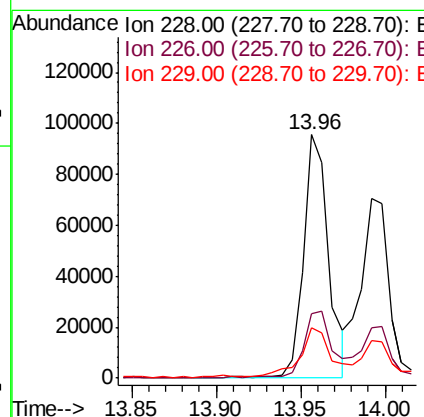
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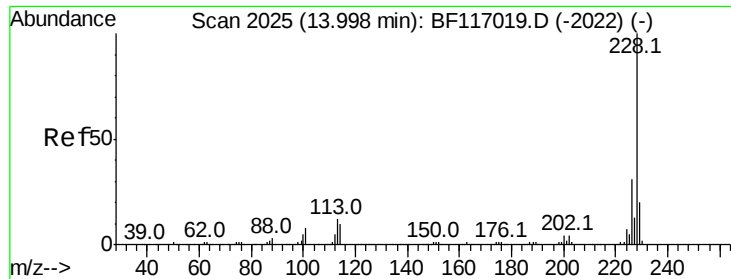
mohammad
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#81
 Benzo(a)anthracene
 Concen: 17.782 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF117283.D
 Acq: 1 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.3	33.5
229	20.7	15.9	23.9





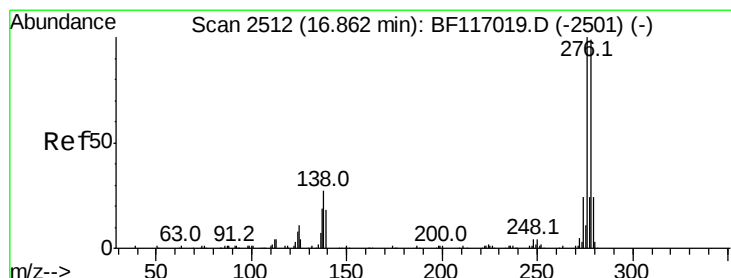
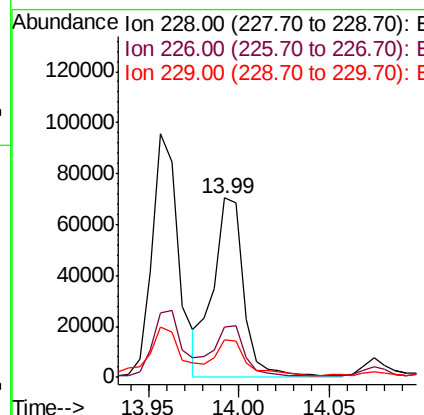
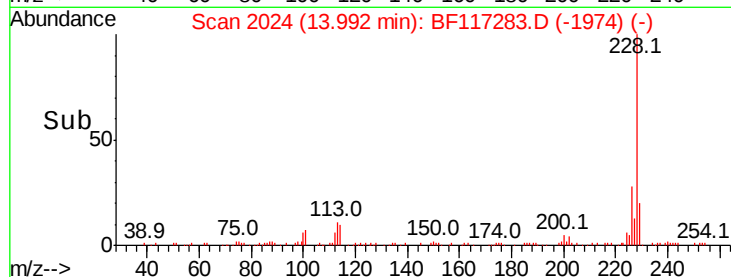
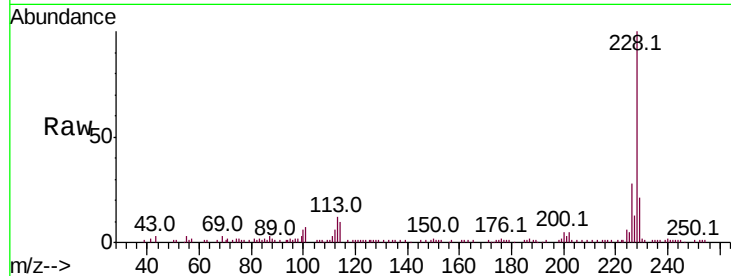
#83
Chrysene
Concen: 15.267 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Instrument :
BNA_F
ClientSampleId :
SU-04-092619RE

Tot Ion:	228	Resp:	82681
Ion Ratio	Lower	Upper	
228	100		
226	28.2	24.8	37.2
229	21.0	15.8	23.8

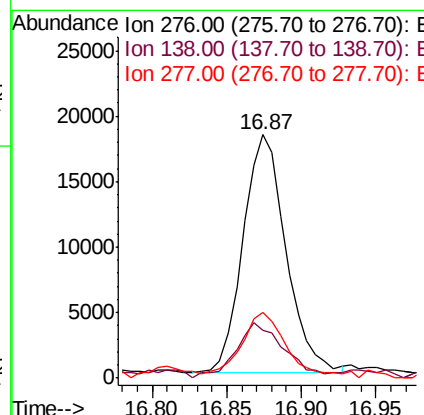
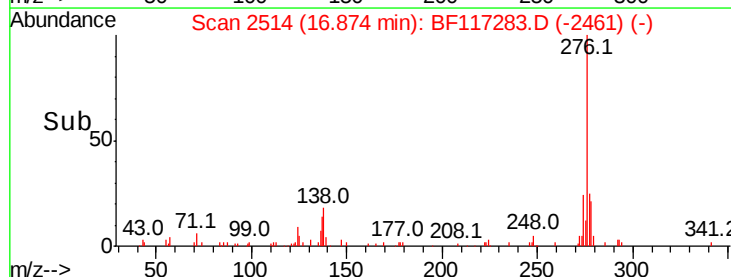
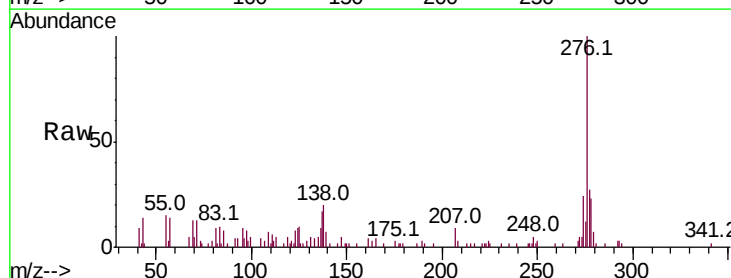
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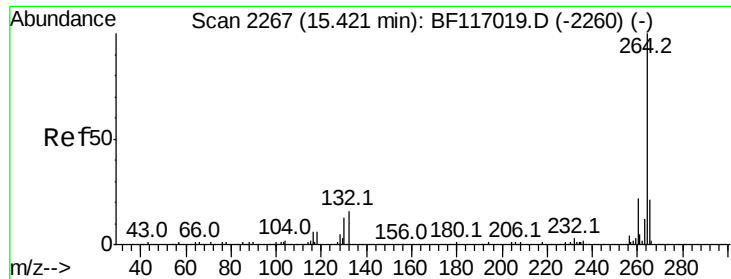
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#86
Indeno(1,2,3-cd)pyrene
Concen: 9.213 ng
RT: 16.87 min Scan# 2514
Delta R.T. 0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Tgt Ion:	276	Resp:	36402
Ion Ratio	Lower	Upper	
276	100		
138	25.9	20.7	31.1
277	29.7	19.8	29.8





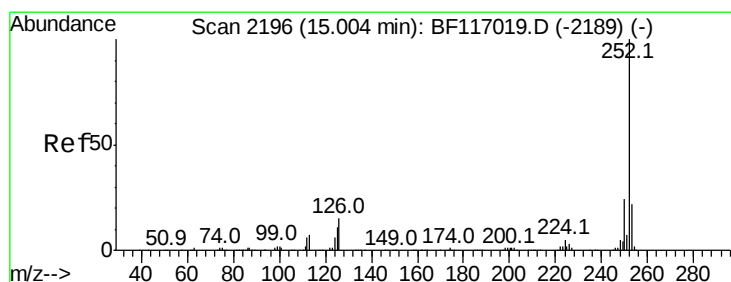
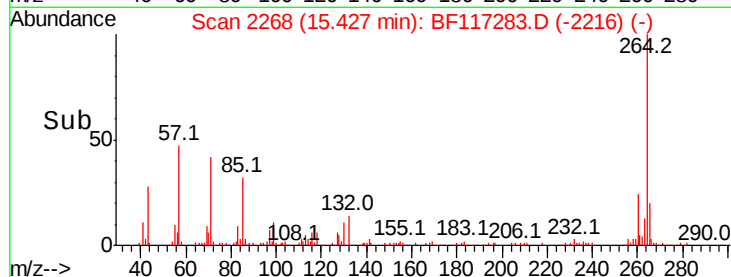
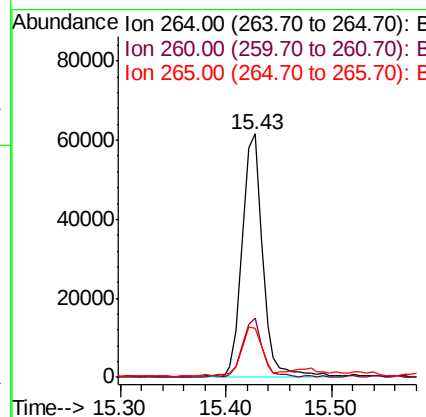
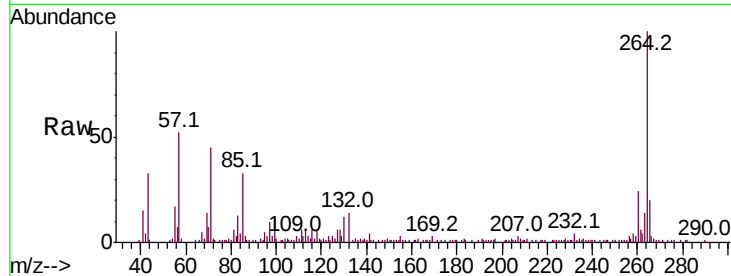
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Instrument :
BNA_F
ClientSampleId :
SU-04-092619RE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	17.6	26.4
265	20.4	16.6	24.8

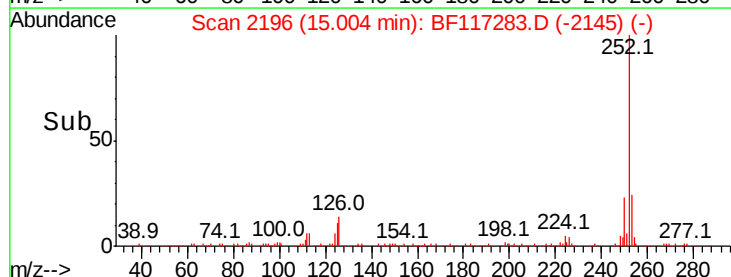
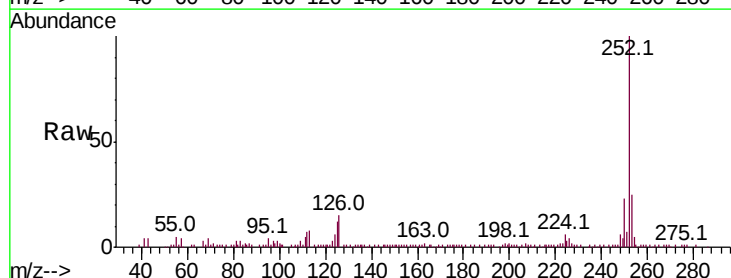
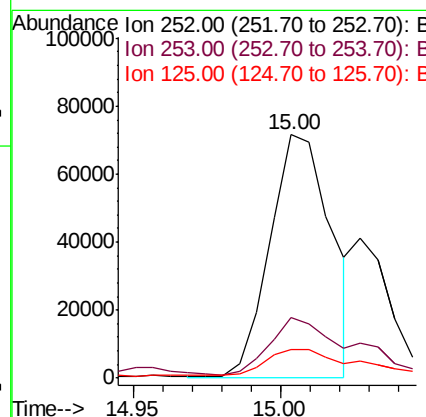
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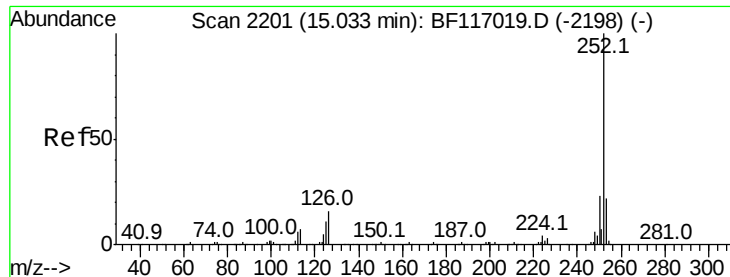
mohammad
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#88
Benzo(b)fluoranthene
Concen: 20.698 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.6	26.4
125	11.8	8.6	12.8





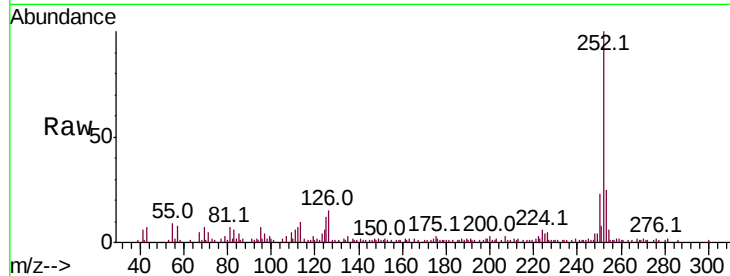
#89
Benzo(k)fluoranthene
Concen: 7.910 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Instrument :
BNA_F
ClientSampleId :
SU-04-092619RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.4	26.2
125	12.2	8.8	13.2

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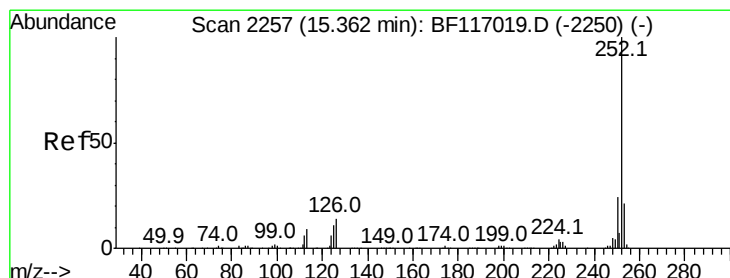
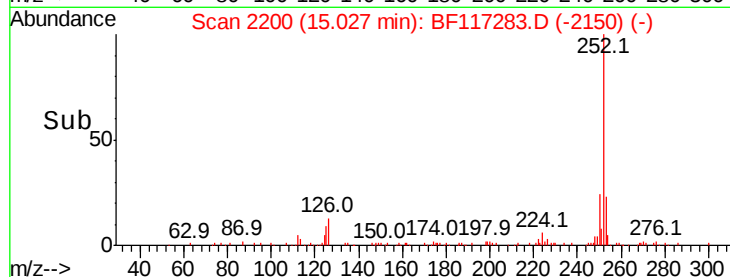
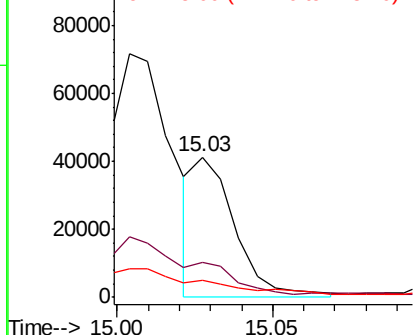


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 16.101 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

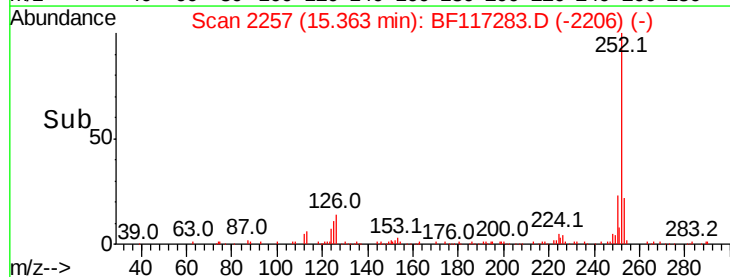
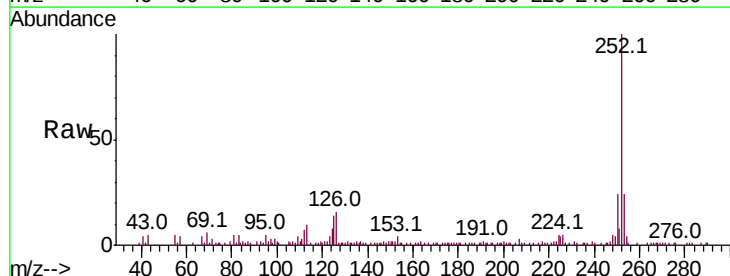
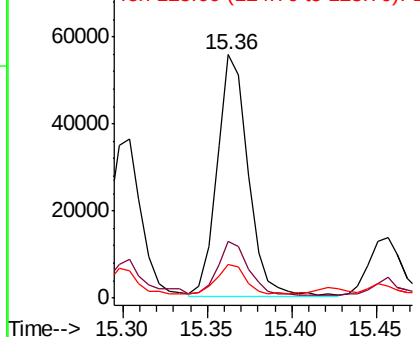
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.6	25.0
125	13.9	8.9	13.3#

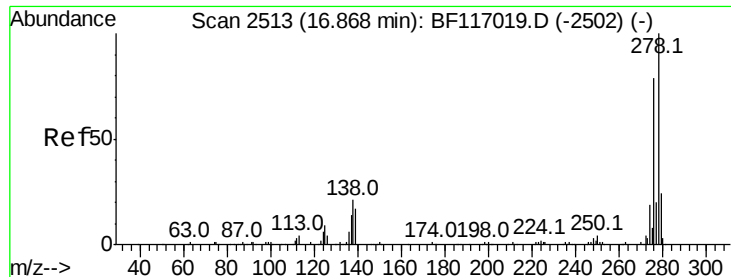
Abundance

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





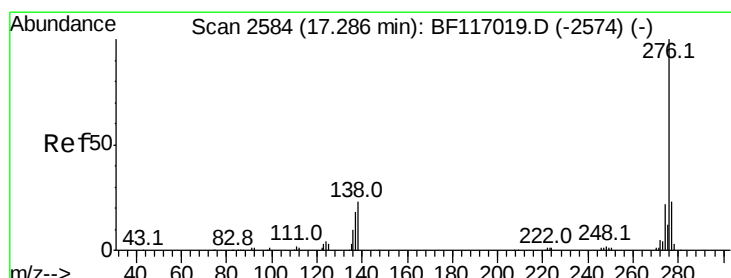
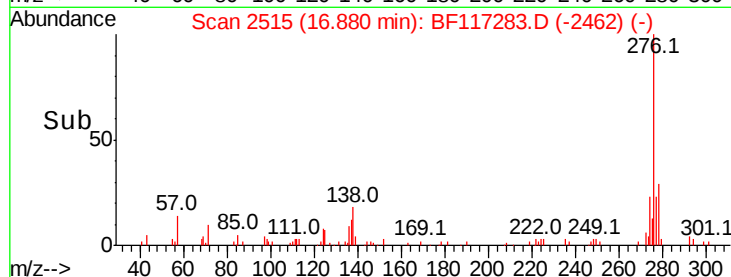
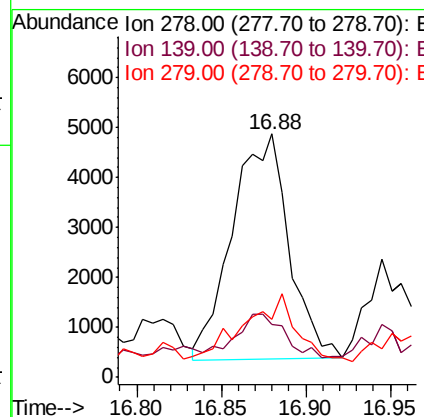
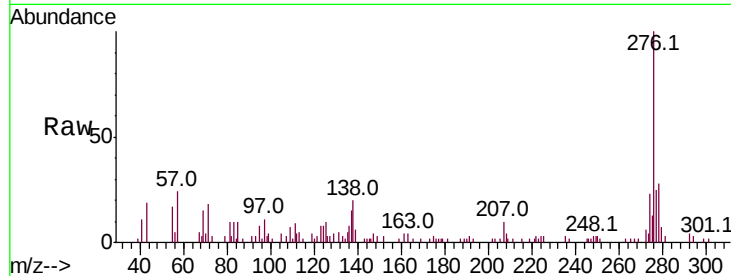
#91
Dibenzo(a,h)anthracene
Concen: 2.987 ng
RT: 16.88 min Scan# 2515
Delta R.T. 0.01 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Instrument :
BNA_F
ClientSampleId :
SU-04-092619RE

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.0	13.5	20.3#
279	23.6	18.8	28.2

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#92
Benzo(g,h,i)perylene
Concen: 9.845 ng
RT: 17.32 min Scan# 2589
Delta R.T. 0.03 min
Lab File: BF117283.D
Acq: 1 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.6	27.8
138	23.3	18.0	27.0

