

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072225\
 Data File : BF143199.D
 Acq On : 22 Jul 2025 20:20
 Operator : RC/JU
 Sample : Q2646-03MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

Quant Time: Jul 23 04:52:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.986	152	106919	20.000	ng	0.02
21) Naphthalene-d8	8.263	136	403875	20.000	ng	0.02
39) Acenaphthene-d10	10.010	164	174208	20.000	ng	0.01
64) Phenanthrene-d10	11.492	188	273501	20.000	ng	0.00
76) Chrysene-d12	14.151	240	256851	20.000	ng	0.03
86) Perylene-d12	15.651	264	185286	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.792	112	552475	81.770	ng	0.21
7) Phenol-d6	6.675	99	546469	64.258	ng	0.09
23) Nitrobenzene-d5	7.545	82	553643	68.332	ng	0.02
42) 2,4,6-Tribromophenol	10.798	330	178262	99.053	ng	0.01
45) 2-Fluorobiphenyl	9.328	172	935127	73.412	ng	0.00
79) Terphenyl-d14	13.092	244	806959	46.752	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.881	88	118206	36.974	ng	# 42
4) n-Nitrosodimethylamine	3.581	42	171005	39.915	ng	# 56
6) Aniline	6.722	93	173337	14.625	ng	# 55
8) 2-Chlorophenol	6.798	128	164249	23.192	ng	91
9) Benzaldehyde	6.557	77	142775	22.389	ng	98
10) Phenol	6.686	94	244774	26.420	ng	96
11) bis(2-Chloroethyl)ether	6.722	93	173337	24.436	ng	95
12) 1,3-Dichlorobenzene	6.928	146	149597m	19.445	ng	
13) 1,4-Dichlorobenzene	7.004	146	276221	35.652	ng	99
14) 1,2-Dichlorobenzene	7.157	146	214736	29.140	ng	98
15) Benzyl Alcohol	7.257	79	593018	91.326	ng	# 84
16) 2,2'-oxybis(1-Chloropr...	7.204	45	1724578m	131.059	ng	
17) 2-Methylphenol	7.269	107	469533	78.849	ng	# 60
18) Hexachloroethane	7.492	117	99536	37.110	ng	97
19) n-Nitroso-di-n-propyla...	7.410	70	203526	37.303	ng	# 92
20) 3+4-Methylphenols	7.504	107	378672m	52.413	ng	
22) Acetophenone	7.404	105	375876	39.310	ng	# 96
24) Nitrobenzene	7.569	77	262484	34.748	ng	99
25) Isophorone	7.881	82	524966	36.703	ng	99
26) 2-Nitrophenol	7.881	139	139283	42.485	ng	95
27) 2,4-Dimethylphenol	7.957	122	227380	34.026	ng	100
28) bis(2-Chloroethoxy)met...	8.022	93	320993	37.430	ng	97
29) 2,4-Dichlorophenol	8.157	162	185645	32.941	ng	97
30) 1,2,4-Trichlorobenzene	8.204	180	216579	35.572	ng	100
31) Naphthalene	8.286	128	751387	37.776	ng	100
32) Benzoic acid	8.181	122	269197	68.976	ng	97
33) 4-Chloroaniline	8.286	127	98017	12.069	ng	# 37
34) Hexachlorobutadiene	8.398	225	138458	37.227	ng	99
35) Caprolactam	8.786	113	67393m	39.574	ng	
36) 4-Chloro-3-methylphenol	8.816	107	200347	32.708	ng	98
37) 2-Methylnaphthalene	8.975	142	443408	36.634	ng	99
38) 1-Methylnaphthalene	9.075	142	427480	34.298	ng	99
40) 1,2,4,5-Tetrachloroben...	9.139	216	206106	40.979	ng	99
41) Hexachlorocyclopentadiene	9.128	237	176682	53.988	ng	99
43) 2,4,6-Trichlorophenol	9.251	196	126910	36.459	ng	99
44) 2,4,5-Trichlorophenol	9.298	196	134795	38.713	ng	# 93

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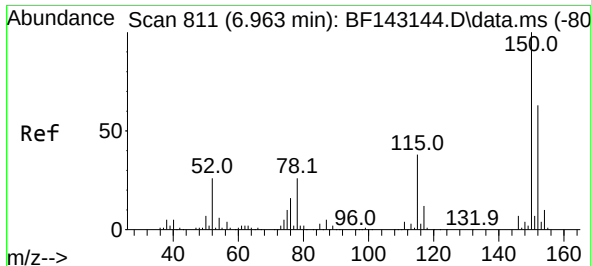
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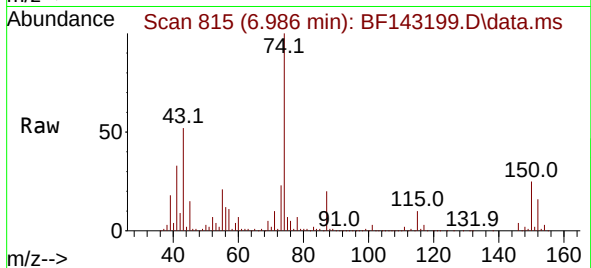
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.428	154	563893	41.488	ng	100
47) 2-Chloronaphthalene	9.457	162	400436	39.817	ng	100
48) 2-Nitroaniline	9.545	65	132031	41.864	ng	95
49) Acenaphthylene	9.869	152	634232	37.632	ng	100
50) Dimethylphthalate	9.727	163	450497	39.673	ng	99
51) 2,6-Dinitrotoluene	9.780	165	95799	41.471	ng	98
52) Acenaphthene	10.039	154	398628	40.018	ng	99
53) 3-Nitroaniline	9.963	138	6891	2.550	ng	# 88
54) 2,4-Dinitrophenol	10.051	184	55306	55.089	ng	# 65
55) Dibenzofuran	10.210	168	554525	37.495	ng	99
56) 4-Nitrophenol	10.110	139	162828	80.702	ng	96
57) 2,4-Dinitrotoluene	10.180	165	116431	40.174	ng	# 99
58) Fluorene	10.557	166	428198	38.577	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.333	232	112015m	38.836	ng	
60) Diethylphthalate	10.422	149	506582	45.135	ng	100
61) 4-Chlorophenyl-phenyle...	10.545	204	209454	37.896	ng	98
62) 4-Nitroaniline	10.563	138	22748	9.823	ng	92
63) Azobenzene	10.704	77	401256	34.302	ng	97
65) 4,6-Dinitro-2-methylph...	10.586	198	41238	30.931	ng	82
66) n-Nitrosodiphenylamine	10.657	169	336118	34.900	ng	100
67) 4-Bromophenyl-phenylether	11.033	248	123252	37.814	ng	97
68) Hexachlorobenzene	11.104	284	126673	37.183	ng	98
69) Atrazine	11.227	200	90049	33.915	ng	99
70) Pentachlorophenol	11.298	266	182738	91.211	ng	98
71) Phenanthrene	11.516	178	580774	39.993	ng	100
72) Anthracene	11.569	178	584315	39.452	ng	100
73) Carbazole	11.721	167	546164	42.231	ng	99
74) Di-n-butylphthalate	12.051	149	548715	37.497	ng	100
75) Fluoranthene	12.704	202	630057	47.268	ng	99
78) Pyrene	12.939	202	219163	9.998	ng	97
80) Butylbenzylphthalate	13.568	149	295074	43.959	ng	97
81) Benzo(a)anthracene	14.139	228	677602	39.404	ng	99
83) Chrysene	14.174	228	615094	39.784	ng	99
84) Bis(2-ethylhexyl)phtha...	14.121	149	446694	43.966	ng	100
85) Di-n-octyl phthalate	14.727	149	745738	40.493	ng	99
87) Indeno(1,2,3-cd)pyrene	17.180	276	348870	26.702	ng	98
88) Benzo(b)fluoranthene	15.204	252	565057	49.920	ng	99
89) Benzo(k)fluoranthene	15.239	252	492257	48.735	ng	100
90) Benzo(a)pyrene	15.586	252	429835	41.215	ng	99
91) Dibenzo(a,h)anthracene	17.198	278	285570	26.854	ng	99
92) Benzo(g,h,i)perylene	17.645	276	277134	26.941	ng	98

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.986 min Scan# 81
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

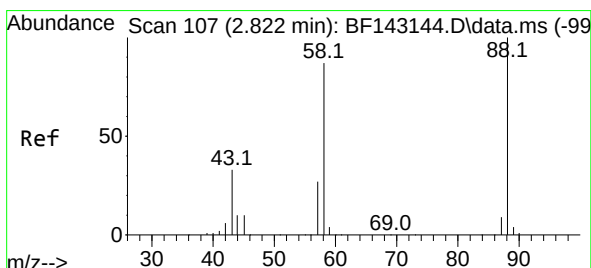
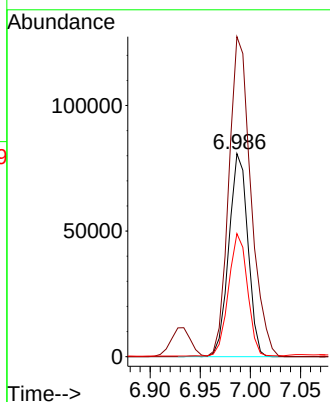
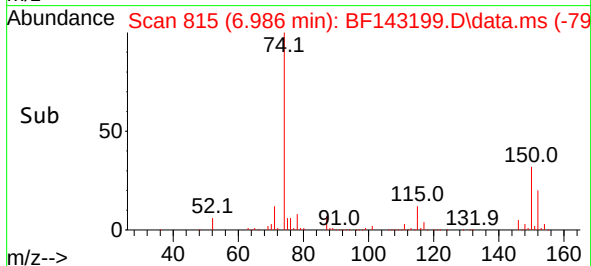
Instrument :
BNA_F
ClientSampleId :
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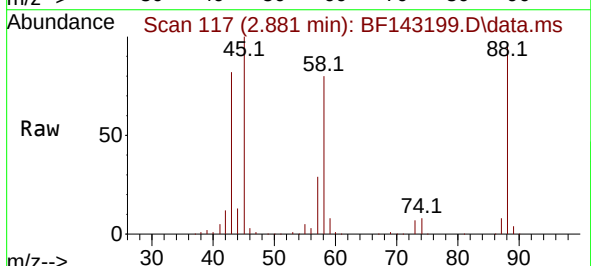
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Ion Ratio Lower Upper
152 100
150 157.6 128.2 192.4
115 60.6 47.9 71.9

Manual Integrations
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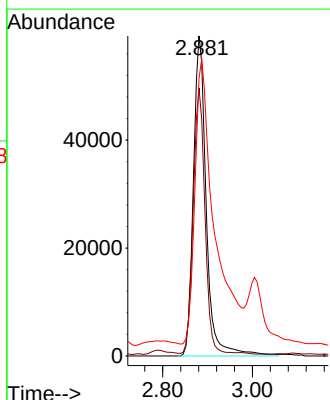
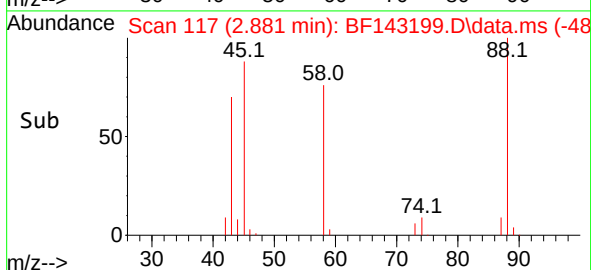
Reviewed By :Rahul Chavli 07/23/2025
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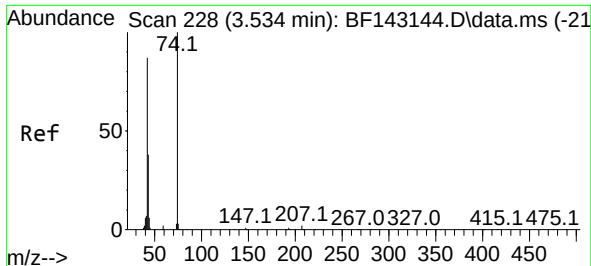


#2
1,4-Dioxane
Concen: 36.974 ng
RT: 2.881 min Scan# 117
Delta R.T. 0.059 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



Tgt Ion: 88 Resp: 118206
Ion Ratio Lower Upper
88 100
58 77.1 70.2 105.2
43 136.0 27.1 40.7#





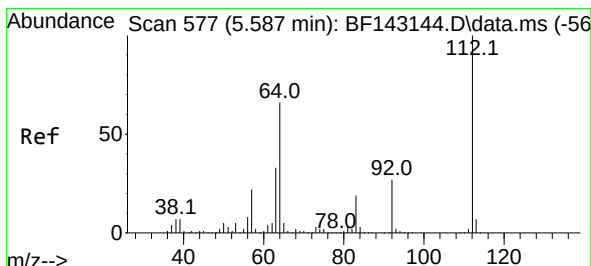
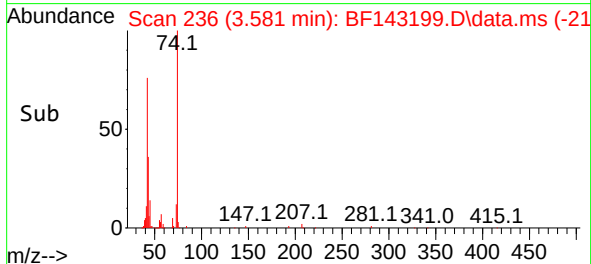
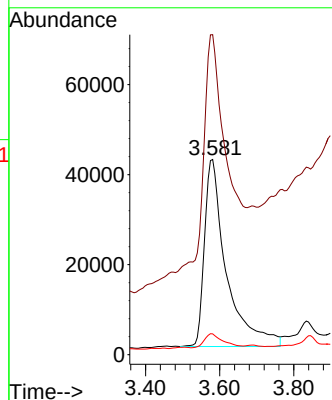
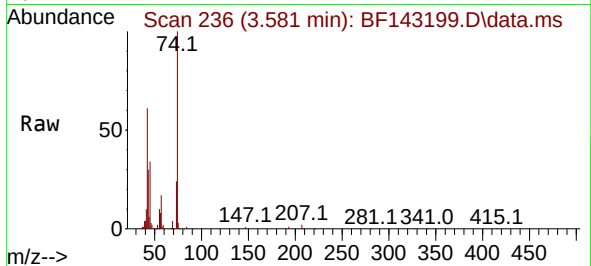
#4
n-Nitrosodimethylamine
Concen: 39.915 ng
RT: 3.581 min Scan# 21
Delta R.T. 0.047 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
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ClientSampleId :
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Tgt Ion: 42 Resp: 17100
Ion Ratio Lower Upper
42 100
74 164.0 91.7 137.5
44 10.6 5.6 8.4

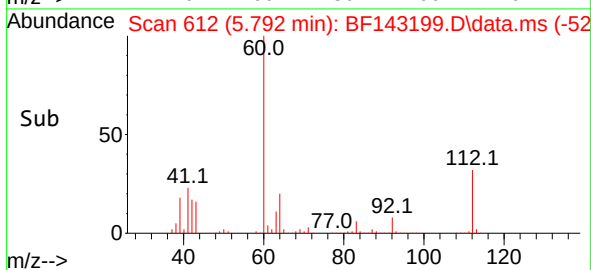
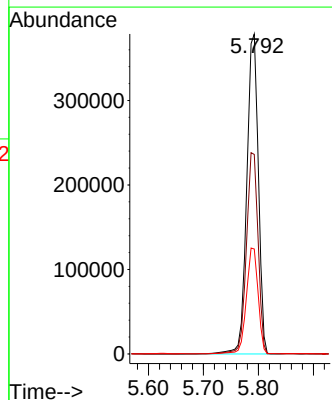
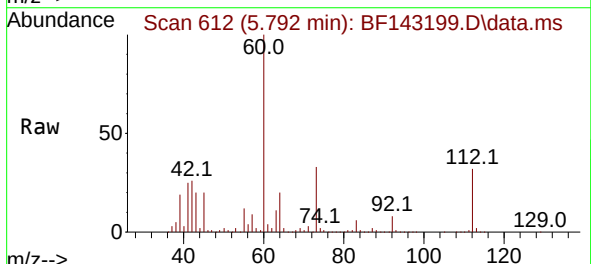
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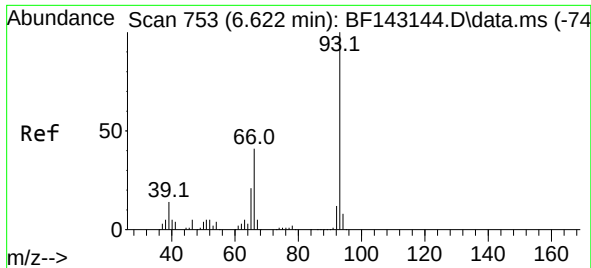
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#5
2-Fluorophenol
Concen: 81.770 ng
RT: 5.792 min Scan# 612
Delta R.T. 0.206 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:112 Resp: 552475
Ion Ratio Lower Upper
112 100
64 62.3 53.1 79.7
63 32.8 26.6 40.0





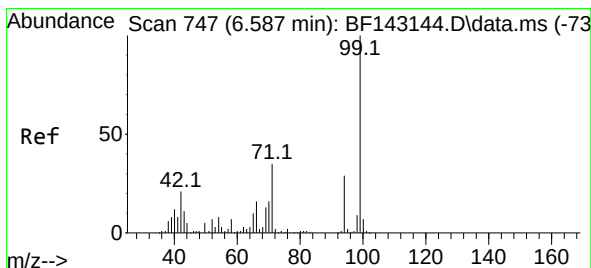
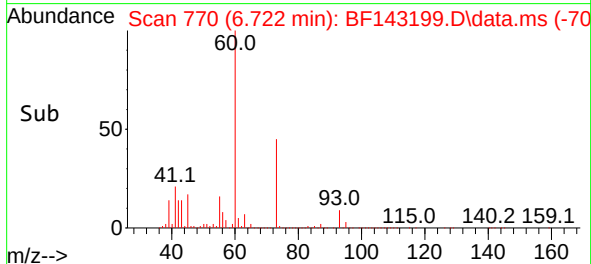
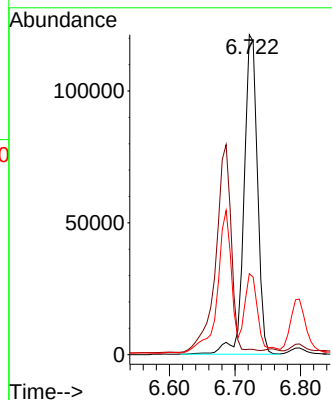
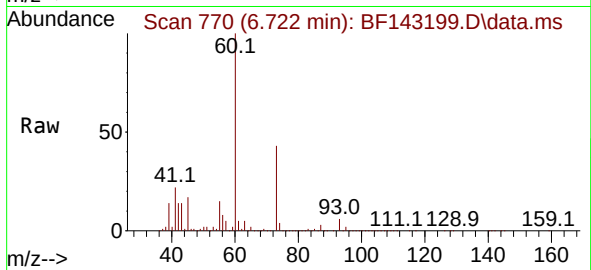
#6
Aniline
Concen: 14.625 ng
RT: 6.722 min Scan# 71
Delta R.T. 0.100 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion: 93 Resp: 17333
Ion Ratio Lower Upper
93 100
66 1.7 33.2 49.8
65 25.3 16.9 25.3

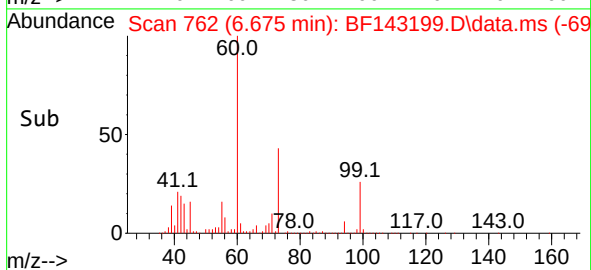
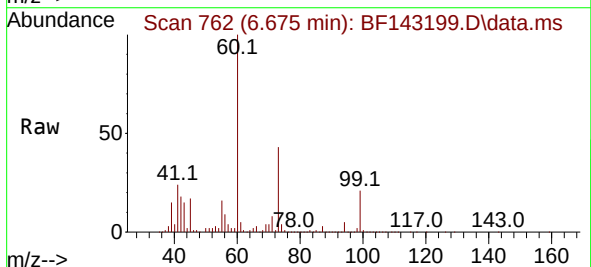
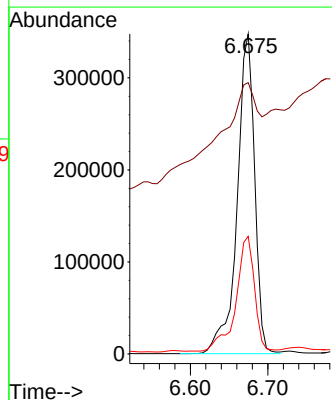
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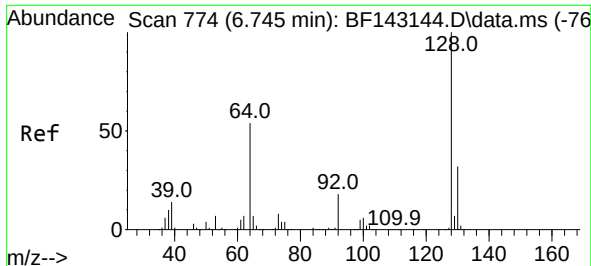
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#7
Phenol-d6
Concen: 64.258 ng
RT: 6.675 min Scan# 762
Delta R.T. 0.088 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 99 Resp: 546469
Ion Ratio Lower Upper
99 100
42 84.8 17.0 25.6
71 36.8 27.7 41.5





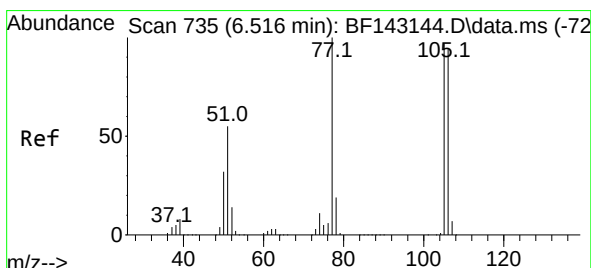
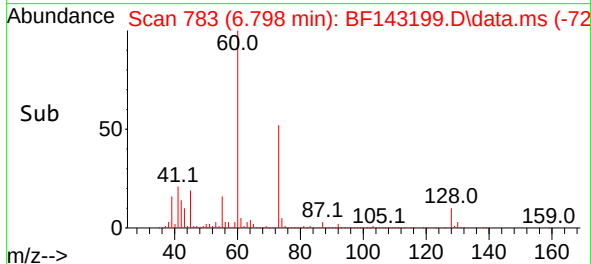
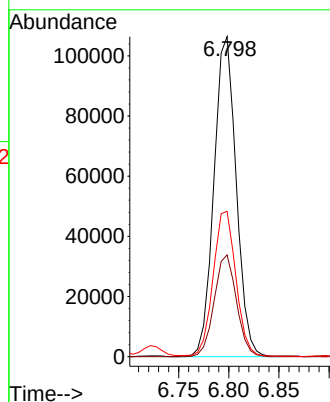
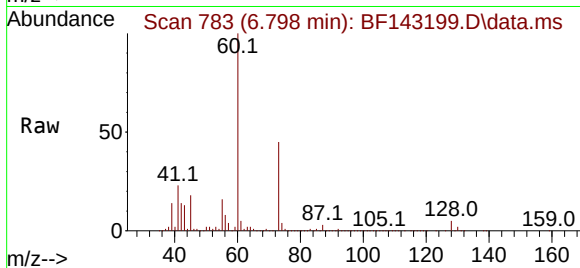
#8
2-Chlorophenol
Concen: 23.192 ng
RT: 6.798 min Scan# 71
Delta R.T. 0.053 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
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ClientSampleId :
FRAC TANKMS

Tgt Ion:128 Resp: 164249
Ion Ratio Lower Upper
128 100
130 31.8 12.3 52.3
64 45.5 35.9 75.9

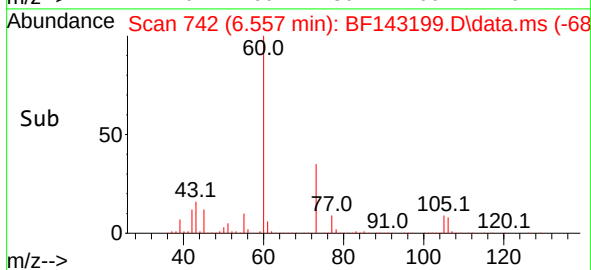
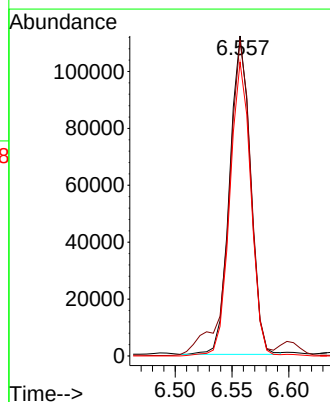
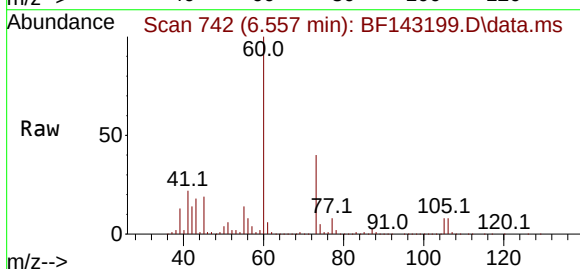
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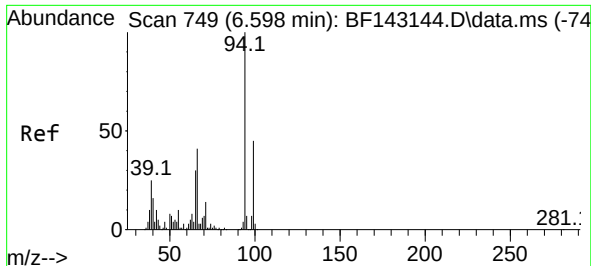
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#9
Benzaldehyde
Concen: 22.389 ng
RT: 6.557 min Scan# 742
Delta R.T. 0.041 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

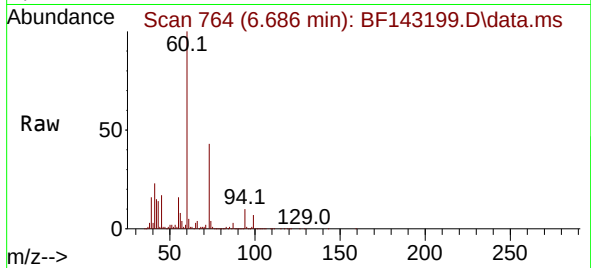
Tgt Ion: 77 Resp: 142775
Ion Ratio Lower Upper
77 100
105 98.6 76.8 116.8
106 91.8 74.4 114.4





#10
Phenol
Concen: 26.420 ng
RT: 6.686 min Scan# 70
Delta R.T. 0.088 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

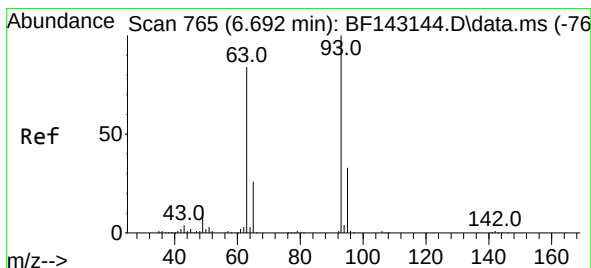
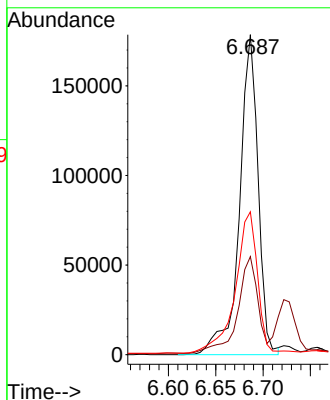
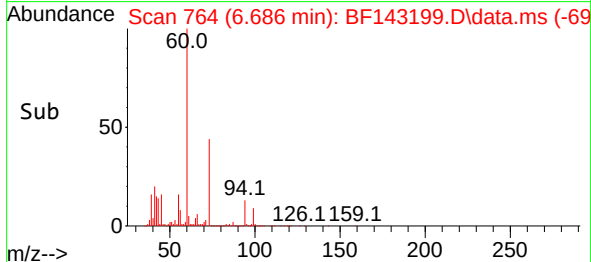
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion: 94 Resp: 244774
Ion Ratio Lower Upper
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65 30.7 10.0 50.0
66 44.6 20.8 60.8

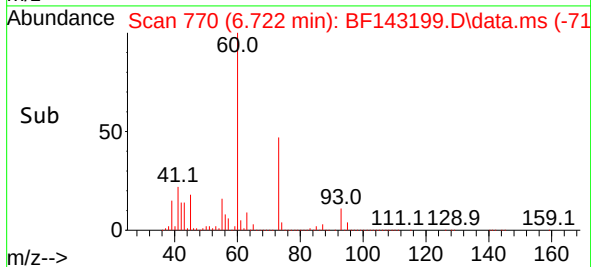
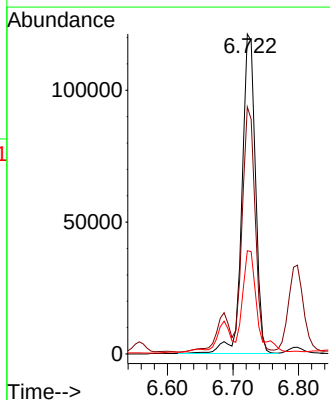
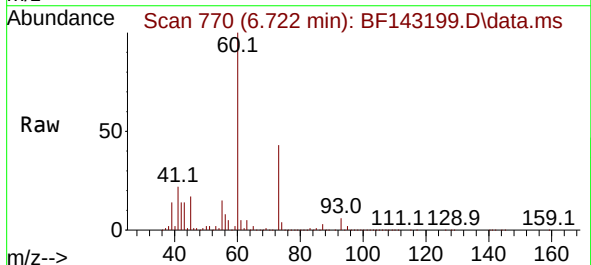
Manual Integrations
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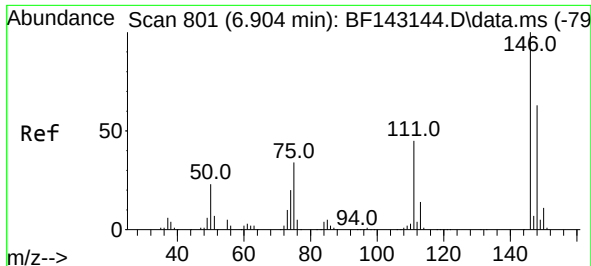
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#11
bis(2-Chloroethyl)ether
Concen: 24.436 ng
RT: 6.722 min Scan# 770
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 93 Resp: 173337
Ion Ratio Lower Upper
93 100
63 77.2 63.4 103.4
95 32.2 12.4 52.4





#12

1,3-Dichlorobenzene

Concen: 19.445 ng m

RT: 6.928 min Scan# 801

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

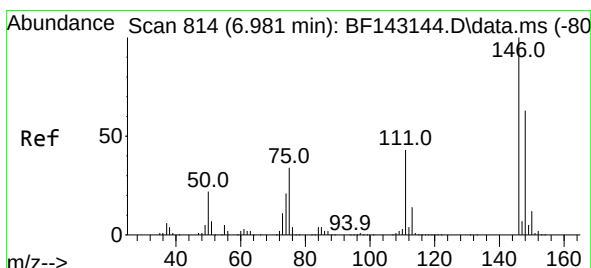
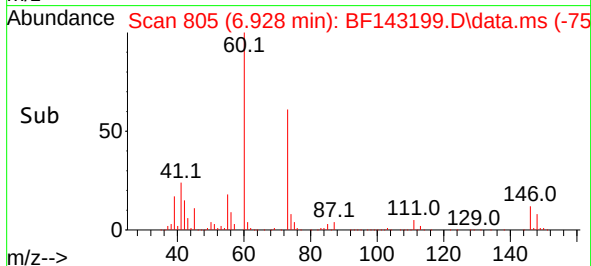
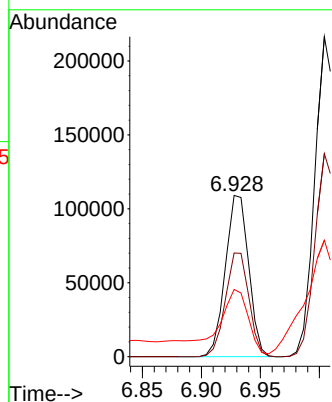
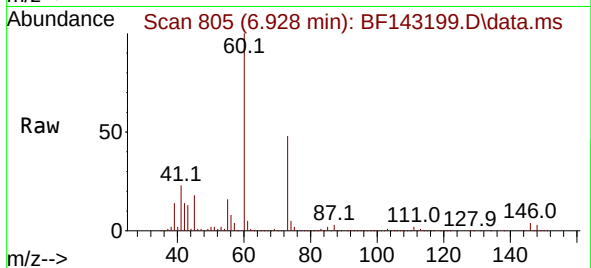
Tgt Ion:146 Resp: 149597
 Ion Ratio Lower Upper
 146 100
 148 64.2 50.6 76.0
 75 41.6 27.4 41.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#13

1,4-Dichlorobenzene

Concen: 35.652 ng

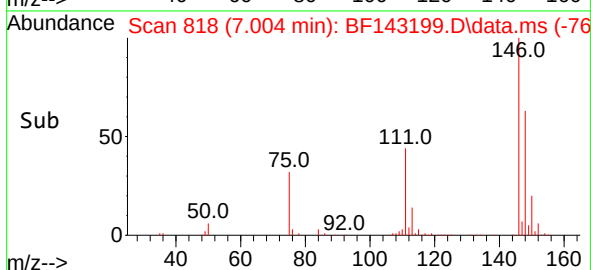
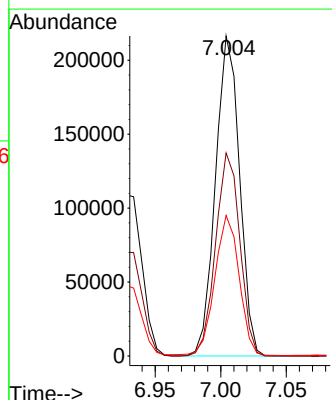
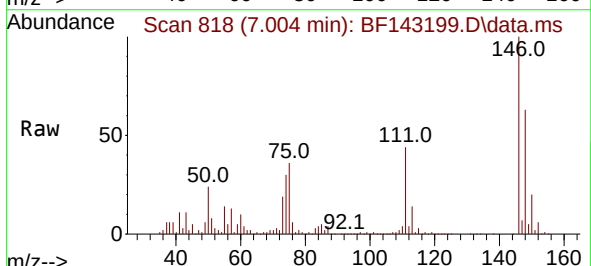
RT: 7.004 min Scan# 818

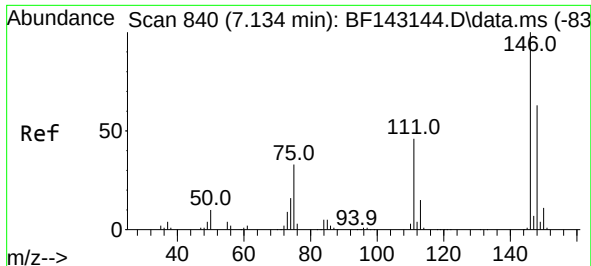
Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Tgt Ion:146 Resp: 276221
 Ion Ratio Lower Upper
 146 100
 148 63.5 50.3 75.5
 111 43.9 34.4 51.6





#14

1,2-Dichlorobenzene

Concen: 29.140 ng

RT: 7.157 min Scan# 84

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:146 Resp: 214730

Ion Ratio Lower Upper

146 100

148 62.6 50.7 76.1

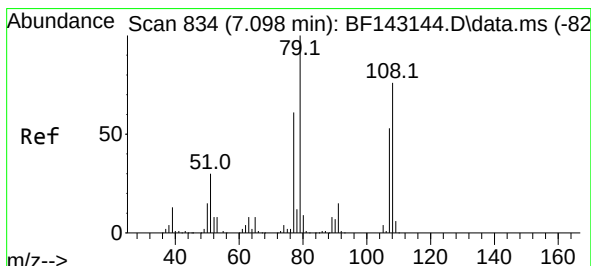
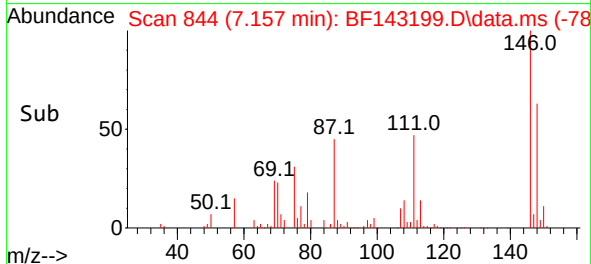
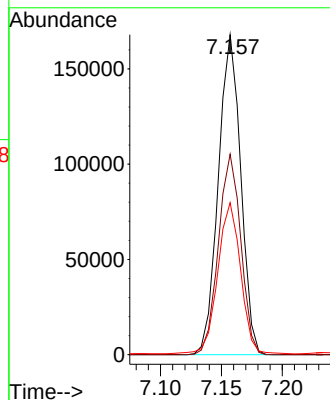
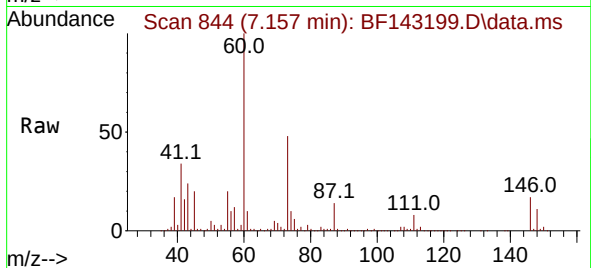
111 47.5 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#15

Benzyl Alcohol

Concen: 91.326 ng

RT: 7.257 min Scan# 861

Delta R.T. 0.159 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

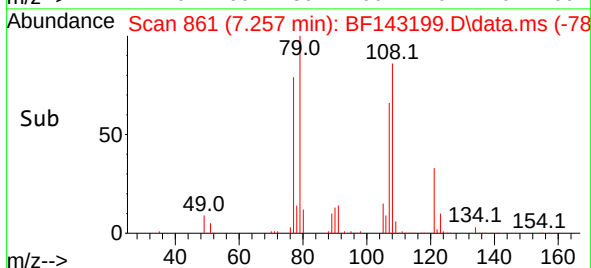
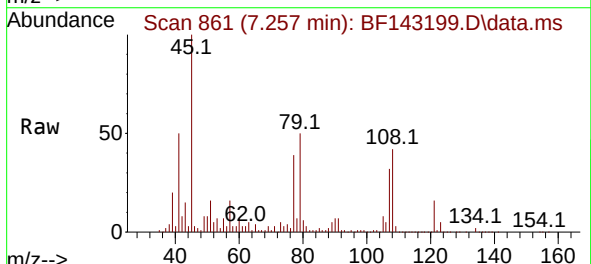
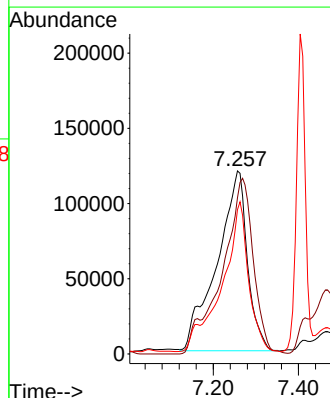
Tgt Ion: 79 Resp: 593018

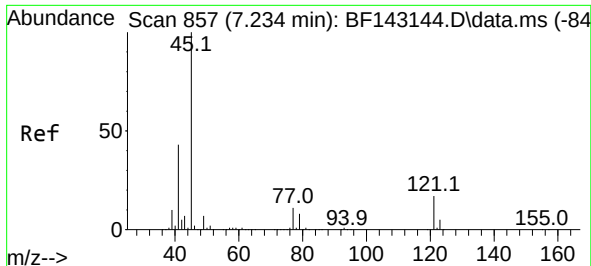
Ion Ratio Lower Upper

79 100

108 85.3 61.1 91.7

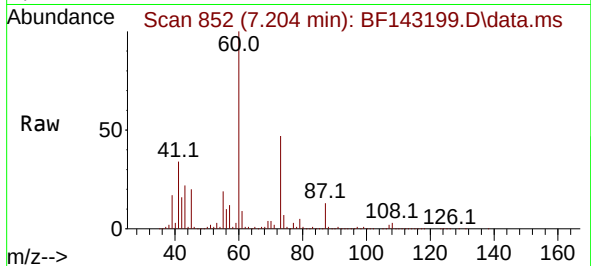
77 78.8 48.9 73.3#





#16
2,2'-oxybis(1-Chloropropane)
Concen: 131.059 ng m
RT: 7.204 min Scan# 81
Delta R.T. -0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

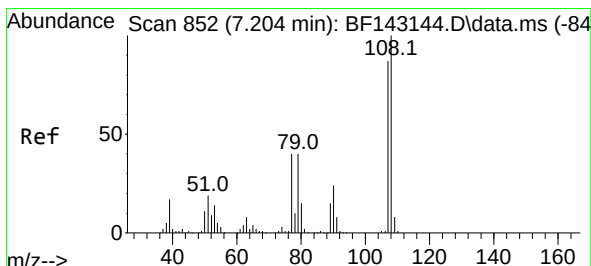
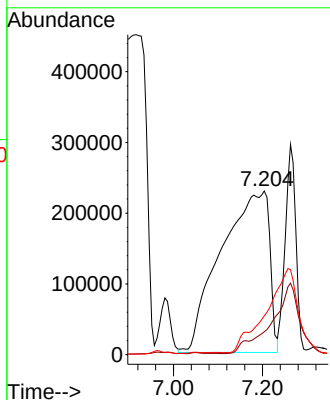
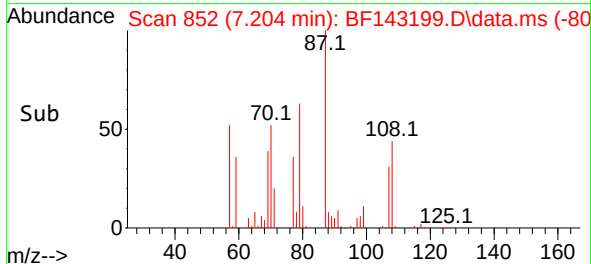
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion: 45 Resp: 1724578
Ion Ratio Lower Upper
45 100
77 14.0 0.0 31.2
79 23.7 0.0 28.5

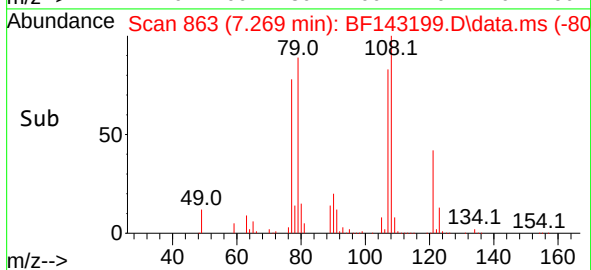
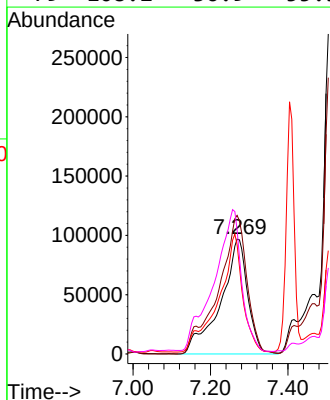
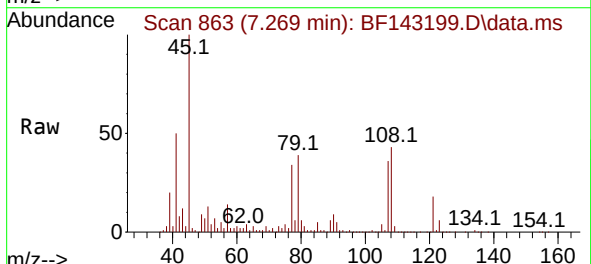
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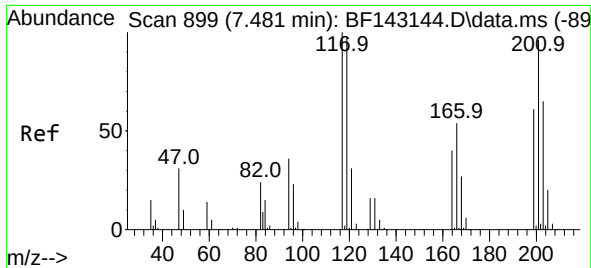
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#17
2-Methylphenol
Concen: 78.849 ng
RT: 7.269 min Scan# 863
Delta R.T. 0.065 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:107 Resp: 469533
Ion Ratio Lower Upper
107 100
108 120.5 91.8 137.6
77 95.1 37.0 55.6#
79 108.2 36.9 55.3#





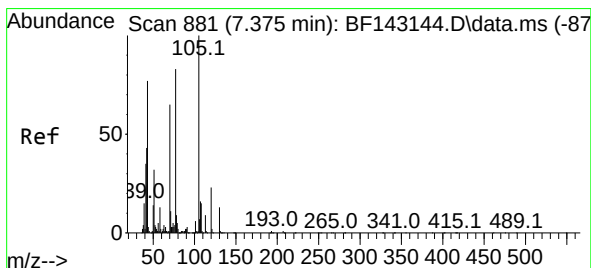
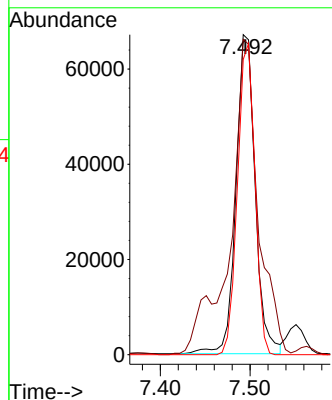
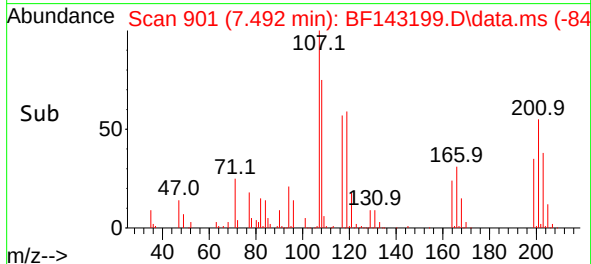
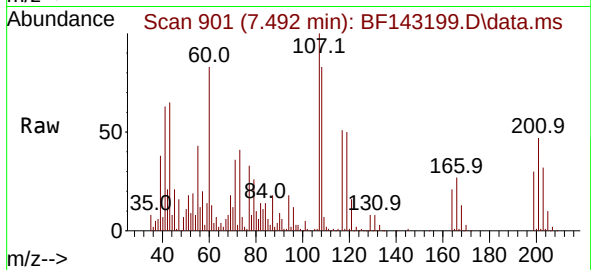
#18
Hexachloroethane
Concen: 37.110 ng
RT: 7.492 min Scan# 901
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:117 Resp: 99536
Ion Ratio Lower Upper
117 100
119 98.6 77.8 116.8
201 92.2 77.0 115.4

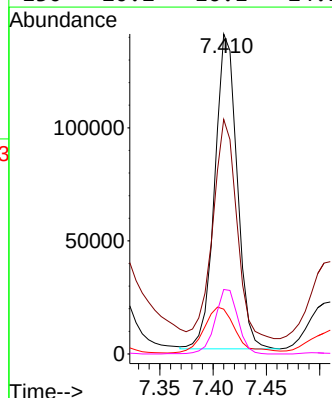
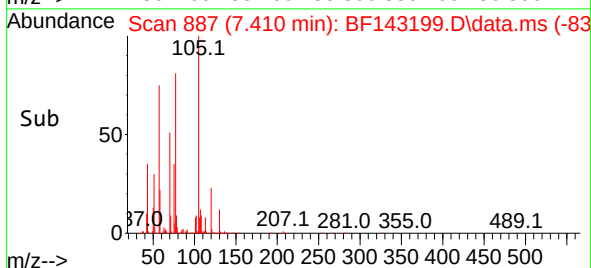
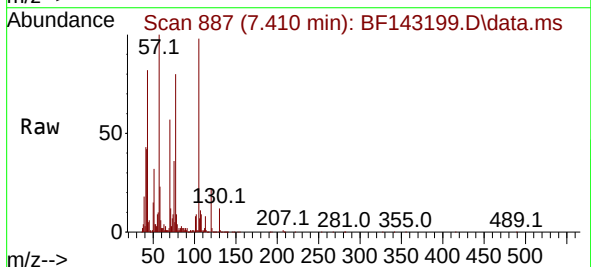
Manual Integrations
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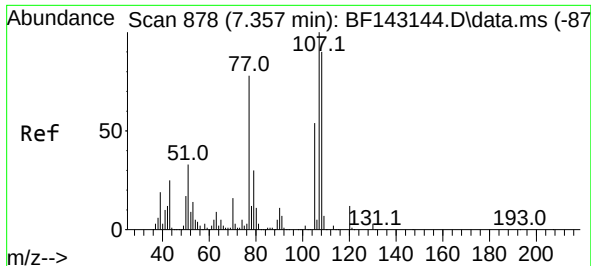
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#19
n-Nitroso-di-n-propylamine
Concen: 37.303 ng
RT: 7.410 min Scan# 887
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

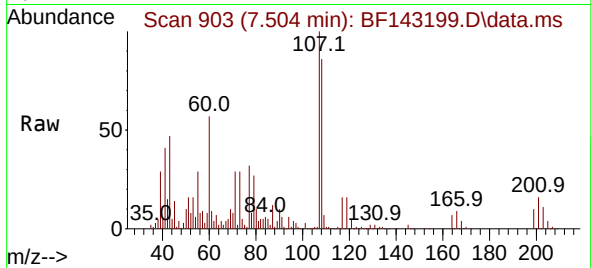
Tgt Ion: 70 Resp: 203526
Ion Ratio Lower Upper
70 100
42 73.3 52.5 78.7
101 14.0 7.6 11.4#
130 20.2 16.1 24.1





#20
3+4-Methylphenols
Concen: 52.413 ng m
RT: 7.504 min Scan# 90
Delta R.T. 0.147 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

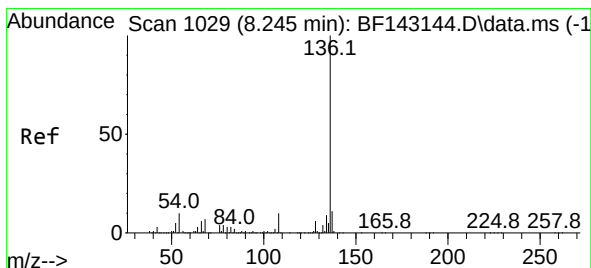
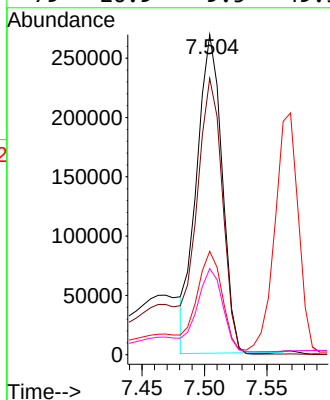
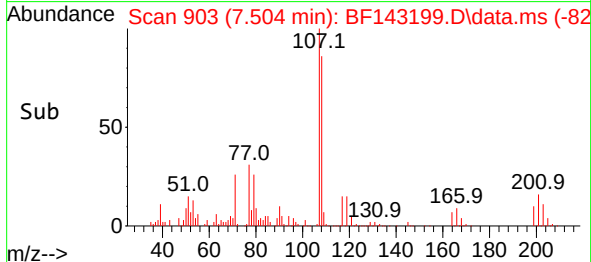
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



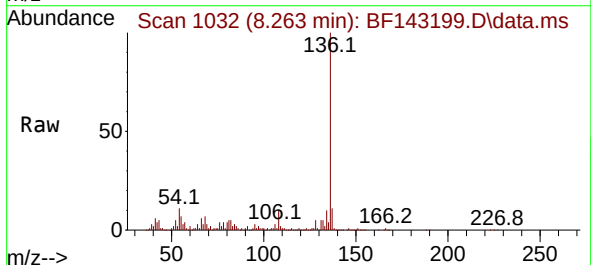
Tgt Ion:107 Resp: 378672
Ion Ratio Lower Upper
107 100
108 86.3 70.0 110.0
77 32.3 57.8 97.8
79 26.9 9.5 49.5

Manual Integrations
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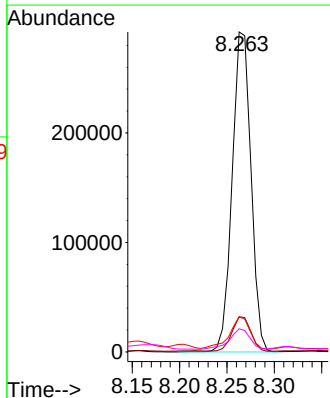
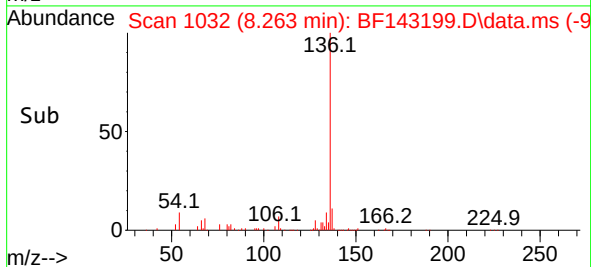
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

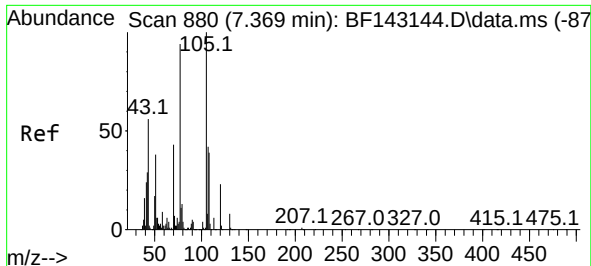


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.263 min Scan# 1032
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



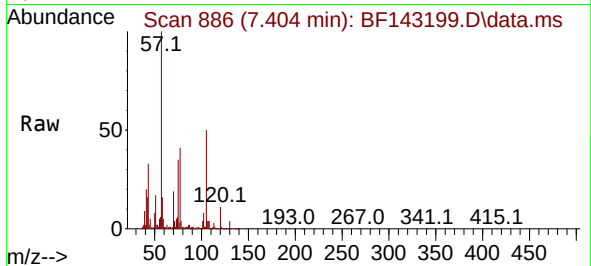
Tgt Ion:136 Resp: 403875
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 11.0 8.2 12.2
68 7.3 5.4 8.2





#22
Acetophenone
Concen: 39.310 ng
RT: 7.404 min Scan# 880
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

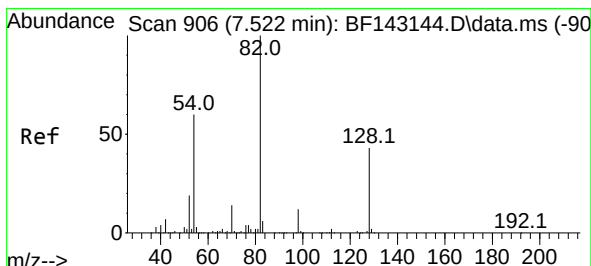
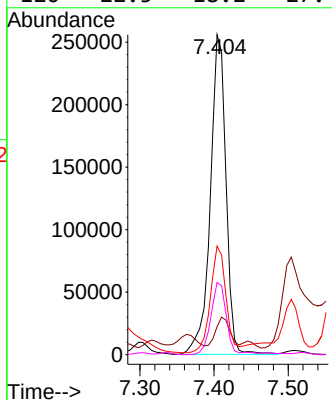
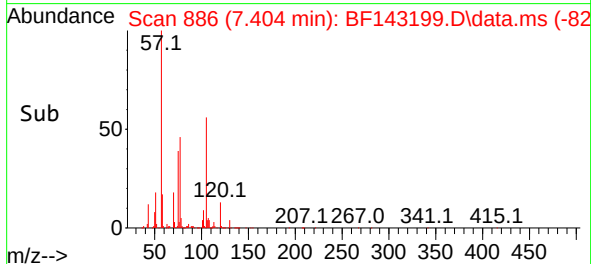
Instrument :
BNA_F
Client Sample Id :
FRAC TANKMS



Tgt Ion: 105 Resp: 375870
Ion Ratio Lower Upper
105 100
71 8.8 5.8 8.6
51 33.9 30.2 45.2
120 22.5 18.2 27.4

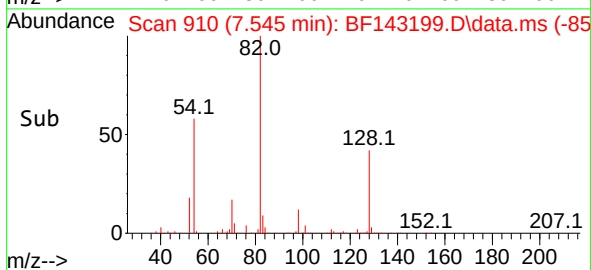
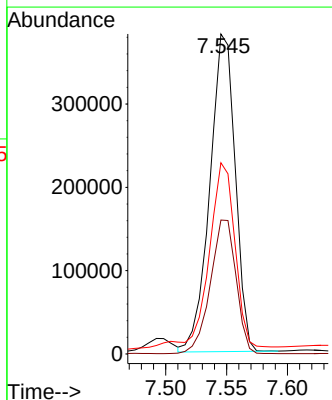
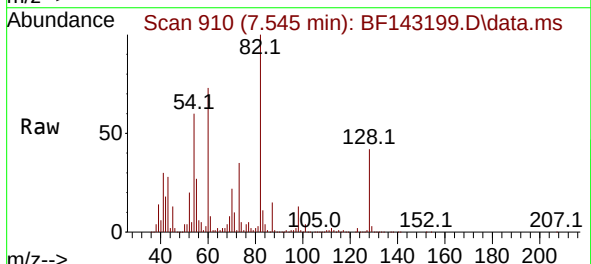
Manual Integrations
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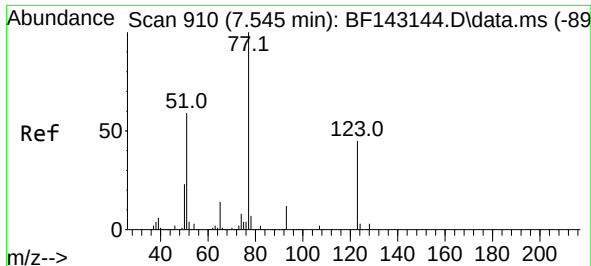
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#23
Nitrobenzene-d5
Concen: 68.332 ng
RT: 7.545 min Scan# 910
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

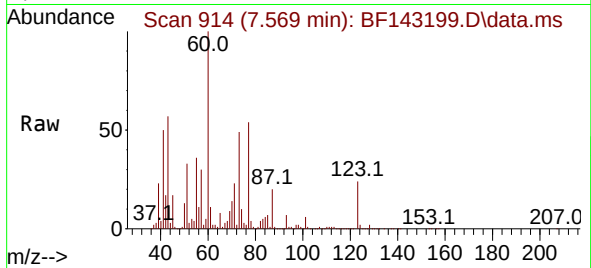
Tgt Ion: 82 Resp: 553643
Ion Ratio Lower Upper
82 100
128 41.9 33.6 50.4
54 59.8 47.1 70.7





#24
Nitrobenzene
Concen: 34.748 ng
RT: 7.569 min Scan# 910
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

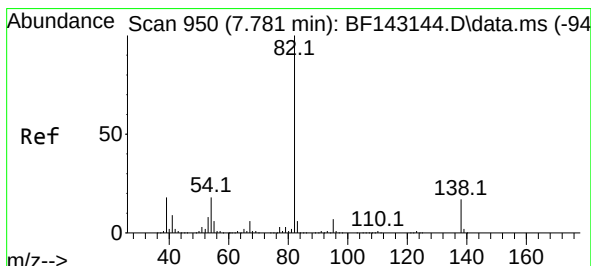
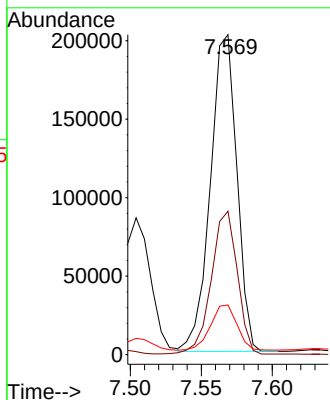
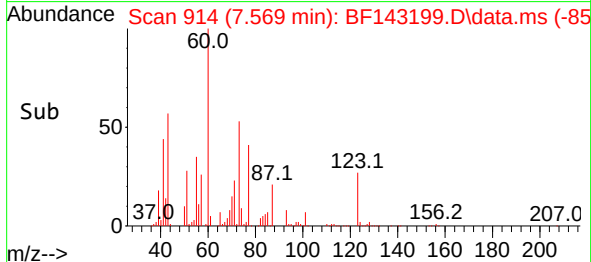
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion: 77 Resp: 262484
Ion Ratio Lower Upper
77 100
123 44.9 36.1 54.1
65 15.6 11.4 17.2

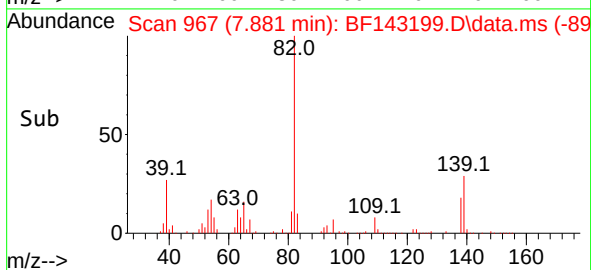
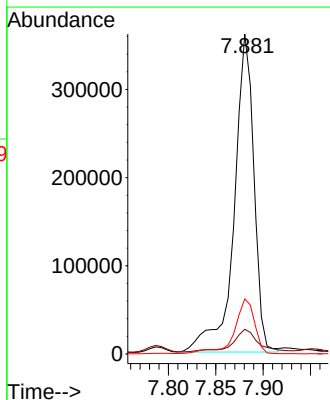
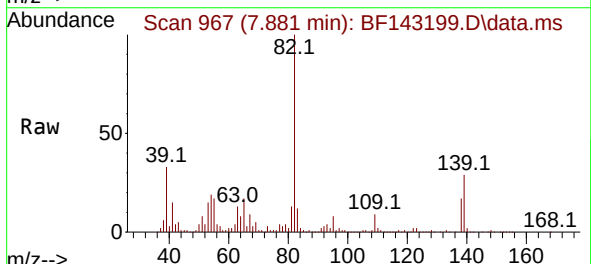
Manual Integrations
APPROVED

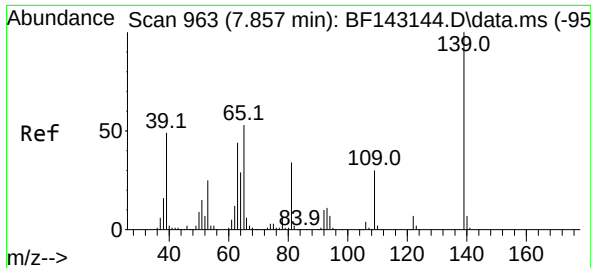
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#25
Isophorone
Concen: 36.703 ng
RT: 7.881 min Scan# 967
Delta R.T. 0.100 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 82 Resp: 524966
Ion Ratio Lower Upper
82 100
95 7.7 5.5 8.3
138 17.2 13.8 20.8





#26
2-Nitrophenol
Concen: 42.485 ng
RT: 7.881 min Scan# 90
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

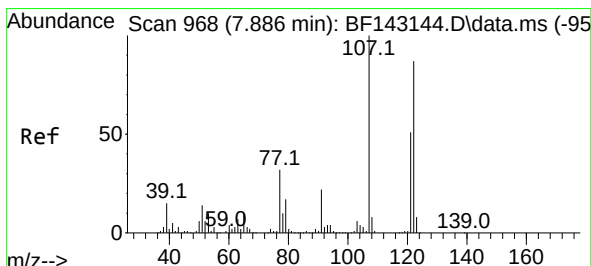
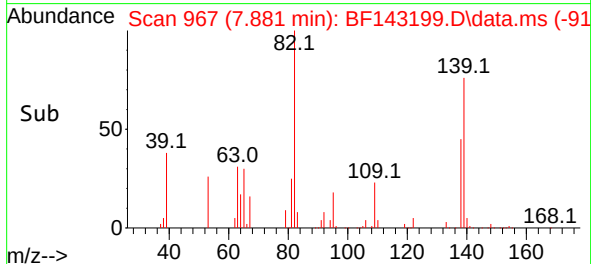
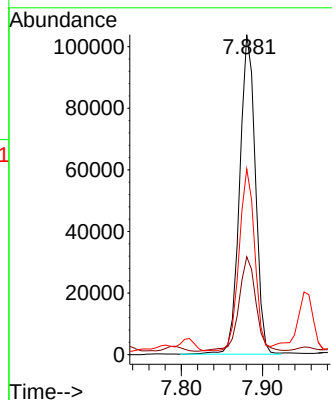
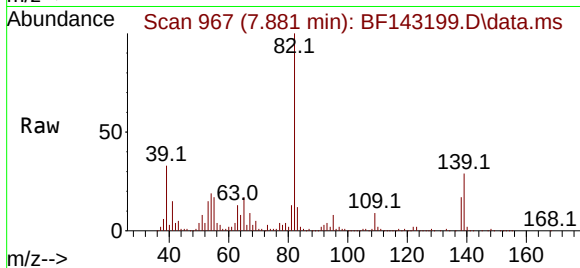
ClientSampleId :

FRAC TANKMS

Tgt Ion:139 Resp: 13928
Ion Ratio Lower Upper
139 100
109 30.6 23.6 35.4
65 58.1 42.6 64.0

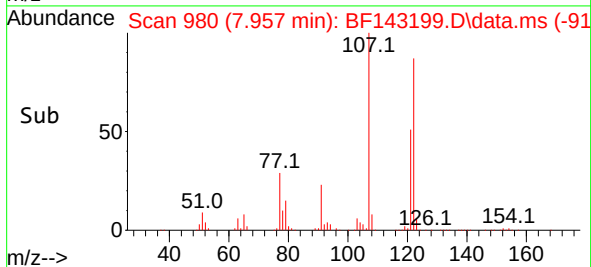
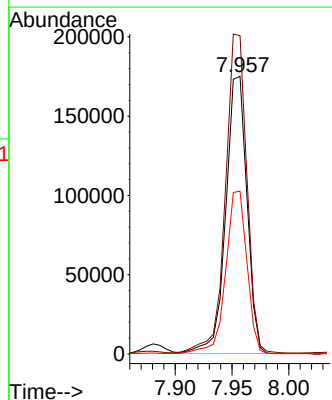
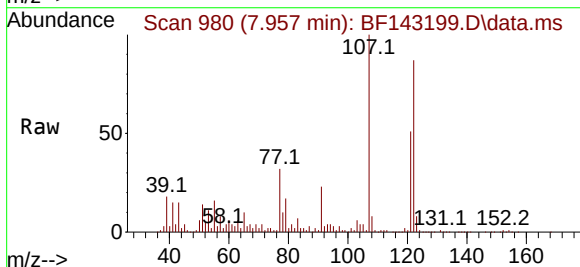
Manual Integrations
APPROVED

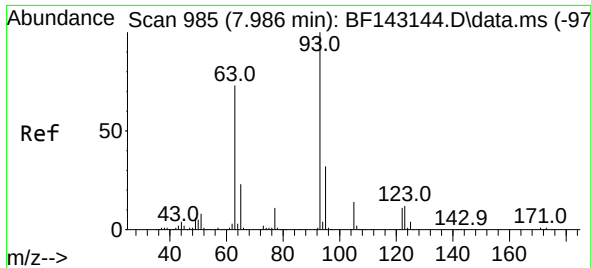
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#27
2,4-Dimethylphenol
Concen: 34.026 ng
RT: 7.957 min Scan# 980
Delta R.T. 0.071 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:122 Resp: 227380
Ion Ratio Lower Upper
122 100
107 114.6 91.8 137.6
121 58.7 46.3 69.5





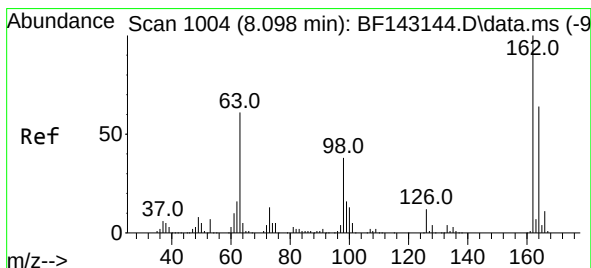
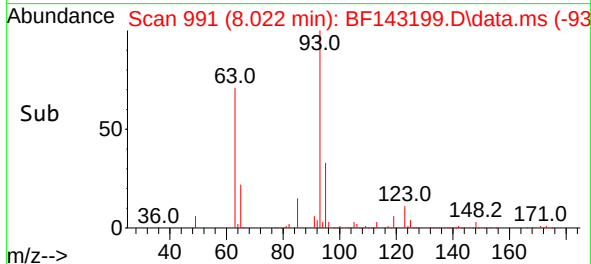
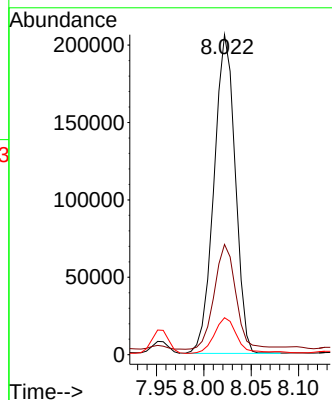
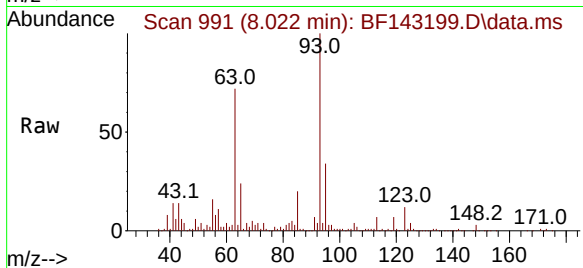
#28
bis(2-Chloroethoxy)methane
Concen: 37.430 ng
RT: 8.022 min Scan# 991
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion: 93 Resp: 32099
Ion Ratio Lower Upper
93 100
95 34.4 25.8 38.6
123 11.5 9.7 14.5

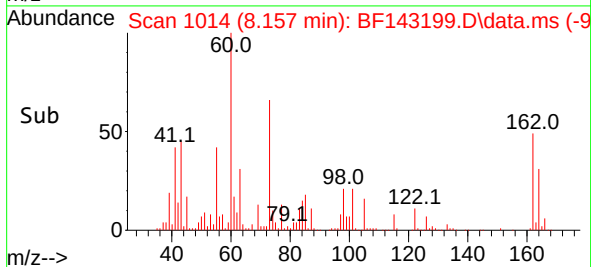
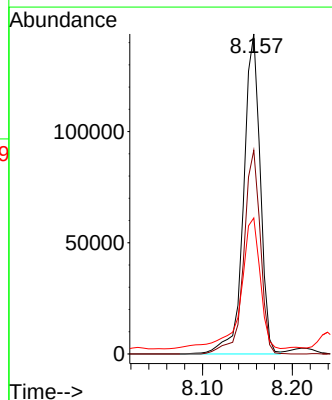
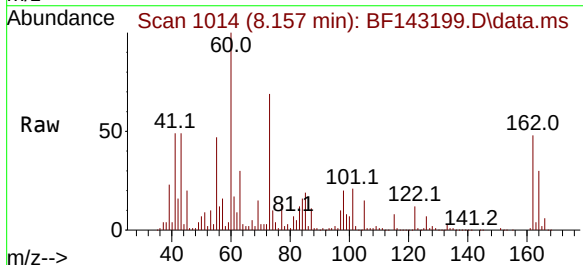
Manual Integrations
APPROVED

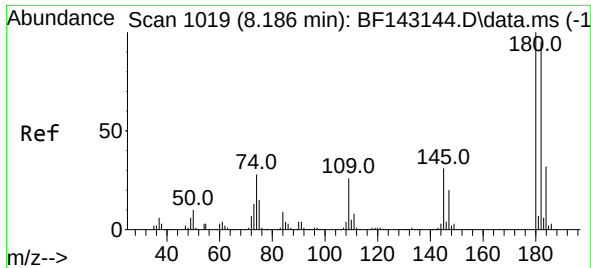
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#29
2,4-Dichlorophenol
Concen: 32.941 ng
RT: 8.157 min Scan# 1014
Delta R.T. 0.059 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

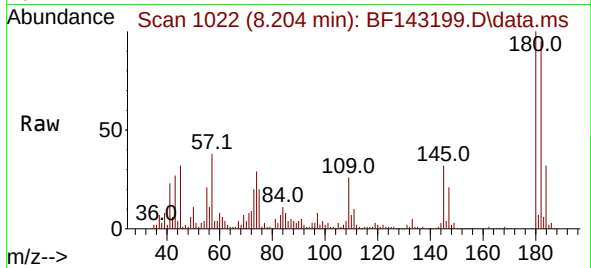
Tgt Ion:162 Resp: 185645
Ion Ratio Lower Upper
162 100
164 63.7 44.2 84.2
98 42.5 17.9 57.9





#30
1,2,4-Trichlorobenzene
Concen: 35.572 ng
RT: 8.204 min Scan# 1022
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

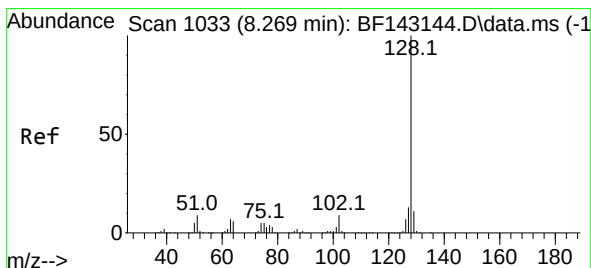
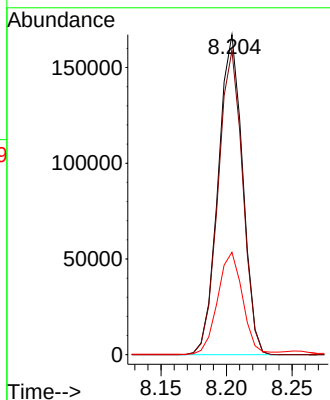
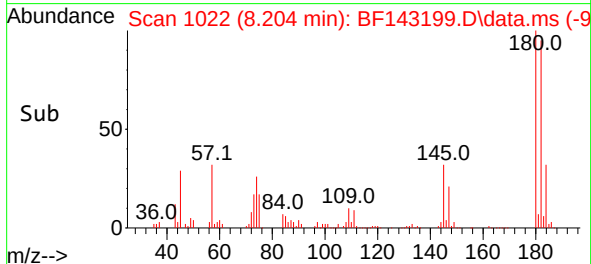
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:180 Resp: 216579
Ion Ratio Lower Upper
180 100
182 95.1 76.2 114.2
145 32.0 25.0 37.6

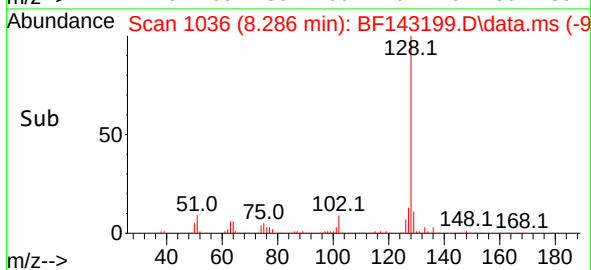
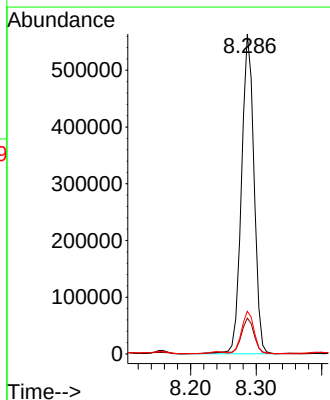
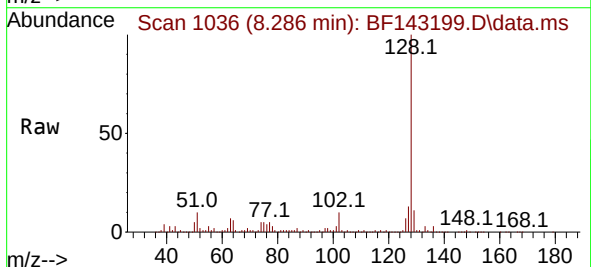
Manual Integrations
APPROVED

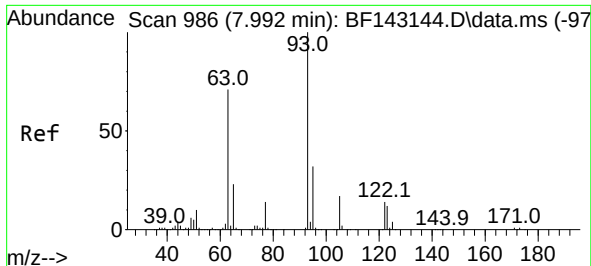
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#31
Naphthalene
Concen: 37.776 ng
RT: 8.286 min Scan# 1036
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

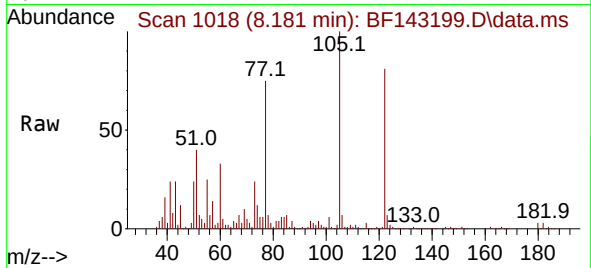
Tgt Ion:128 Resp: 751387
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.4 10.6 16.0





#32
Benzoic acid
Concen: 68.976 ng
RT: 8.181 min Scan# 1018
Delta R.T. 0.189 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

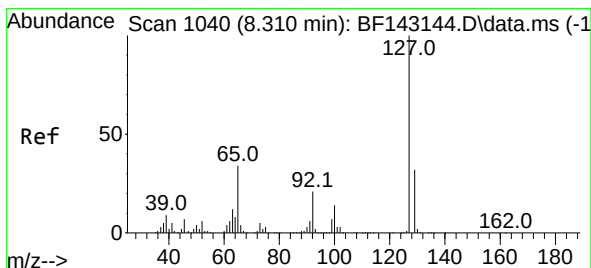
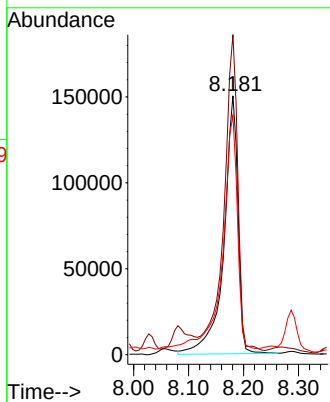
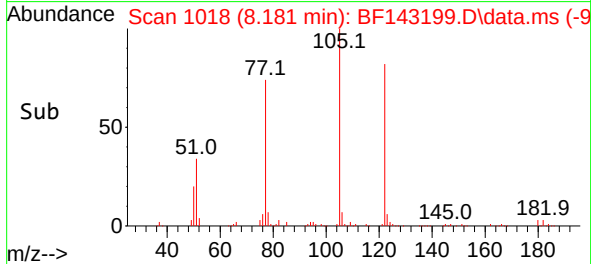
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:122 Resp: 26919
Ion Ratio Lower Upper
122 100
105 123.6 104.8 144.8
77 92.5 77.6 117.6

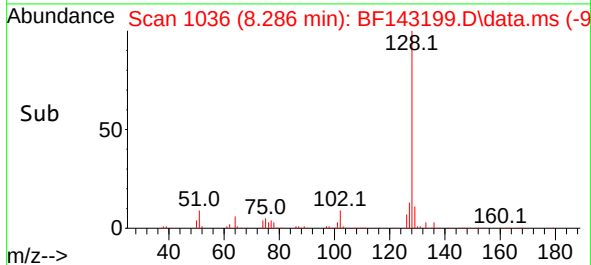
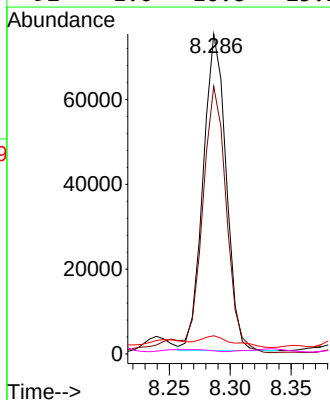
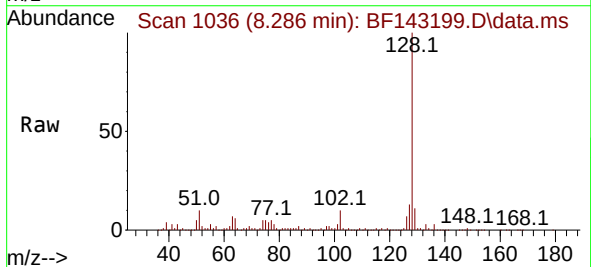
Manual Integrations
APPROVED

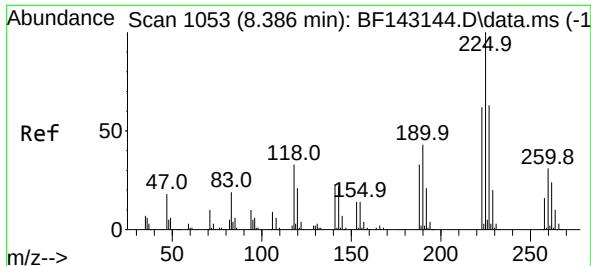
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#33
4-Chloroaniline
Concen: 12.069 ng
RT: 8.286 min Scan# 1036
Delta R.T. -0.024 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:127 Resp: 98017
Ion Ratio Lower Upper
127 100
129 83.6 26.0 39.0#
65 5.7 27.4 41.2#
92 1.0 16.8 25.2#





#34
Hexachlorobutadiene
Concen: 37.227 ng
RT: 8.398 min Scan# 1055
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

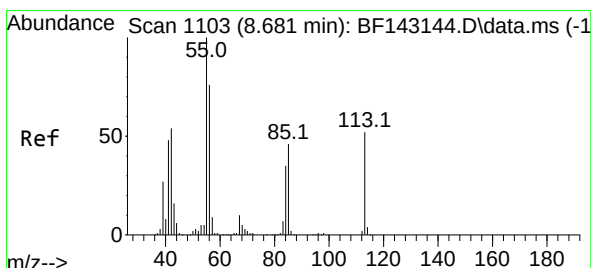
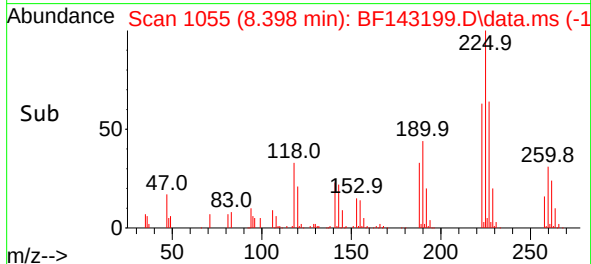
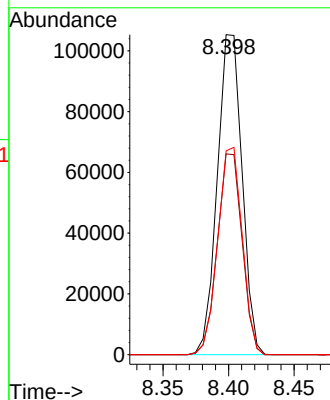
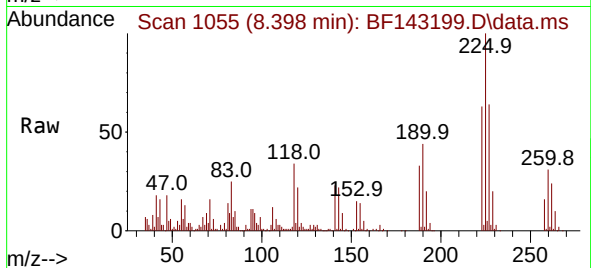
FRAC TANKMS

Tgt Ion:225 Resp: 138458
Ion Ratio Lower Upper
225 100
223 62.7 49.8 74.6
227 63.7 50.2 75.4

Manual Integrations

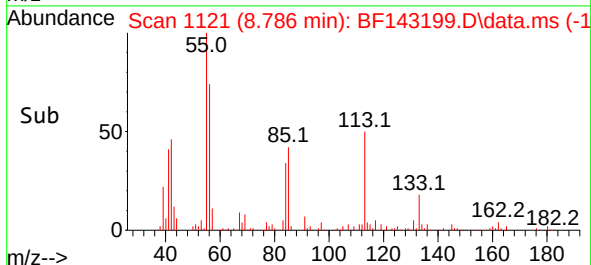
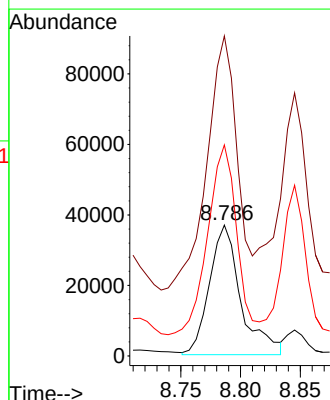
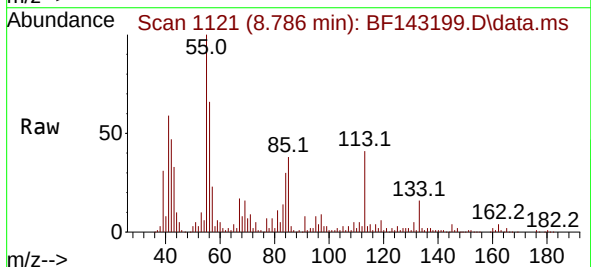
APPROVED

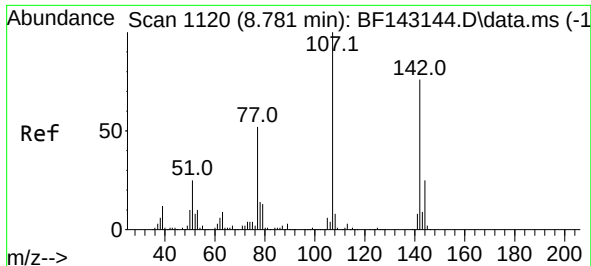
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#35
Caprolactam
Concen: 39.574 ng m
RT: 8.786 min Scan# 1121
Delta R.T. 0.106 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

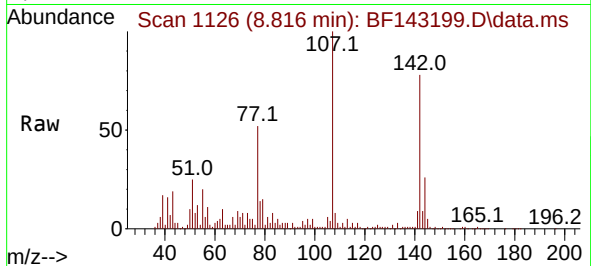
Tgt Ion:113 Resp: 67393
Ion Ratio Lower Upper
113 100
55 244.6 174.0 214.0#
56 161.3 126.6 166.6





#36
4-Chloro-3-methylphenol
Concen: 32.708 ng
RT: 8.816 min Scan# 1126
Delta R.T. 0.035 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

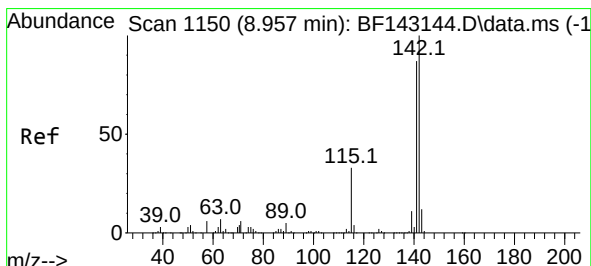
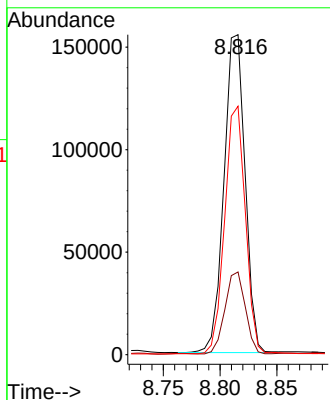
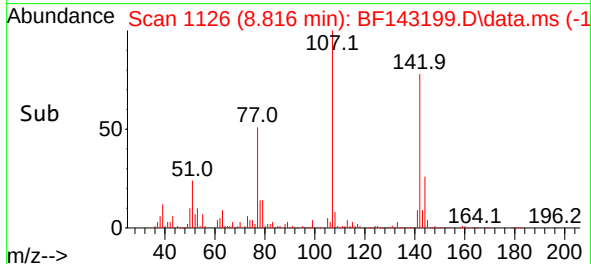
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:107 Resp: 20034
Ion Ratio Lower Upper
107 100
144 25.9 19.8 29.6
142 77.7 60.6 90.8

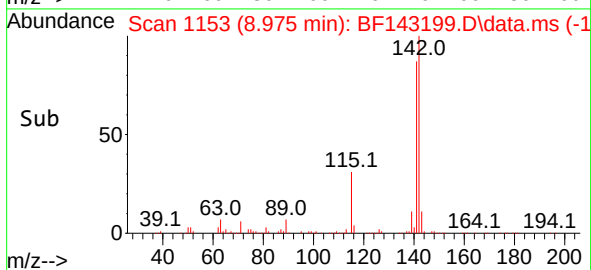
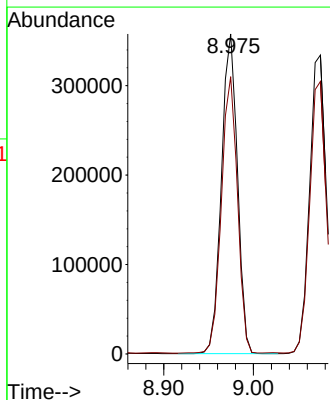
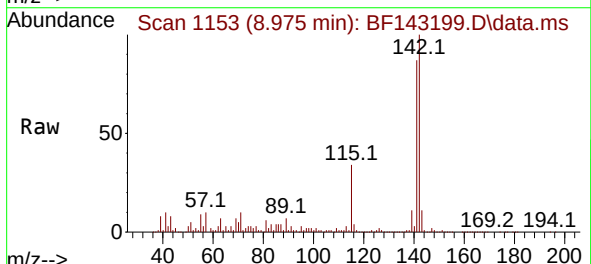
Manual Integrations
APPROVED

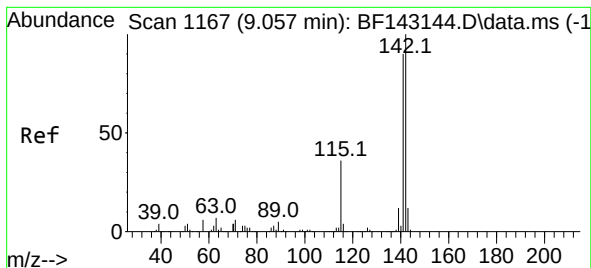
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#37
2-Methylnaphthalene
Concen: 36.634 ng
RT: 8.975 min Scan# 1153
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:142 Resp: 443408
Ion Ratio Lower Upper
142 100
141 86.7 69.9 104.9





#38

1-Methylnaphthalene

Concen: 34.298 ng

RT: 9.075 min Scan# 1167

Delta R.T. 0.018 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:142 Resp: 427480

Ion Ratio Lower Upper

142 100

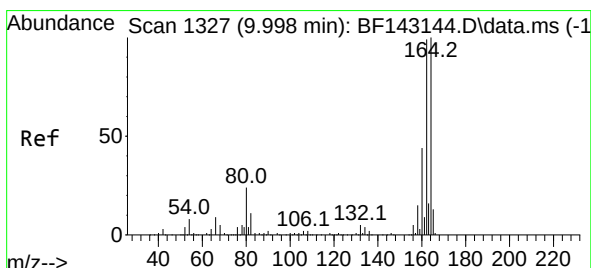
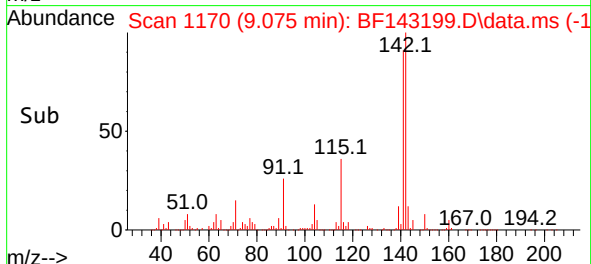
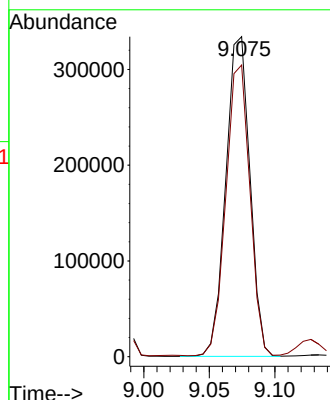
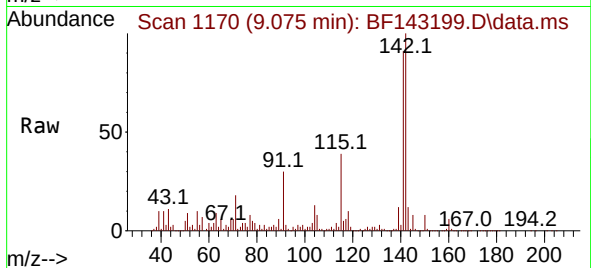
141 91.2 72.3 108.5

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.010 min Scan# 1329

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

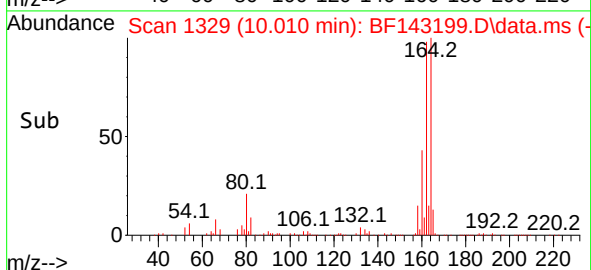
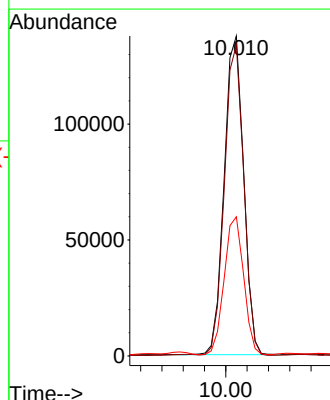
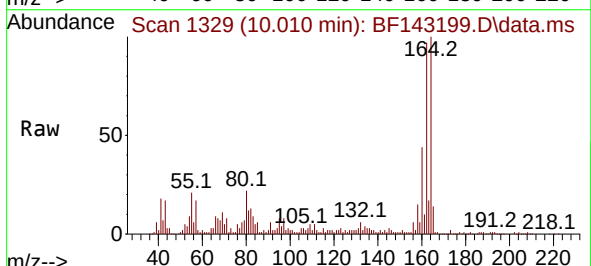
Tgt Ion:164 Resp: 174208

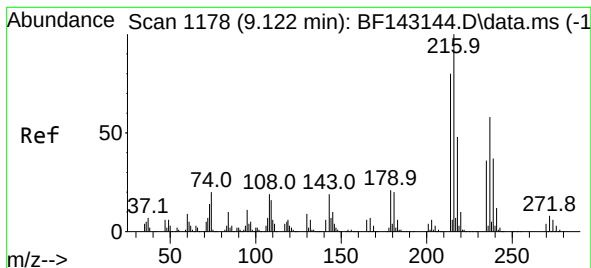
Ion Ratio Lower Upper

164 100

162 97.2 79.0 118.6

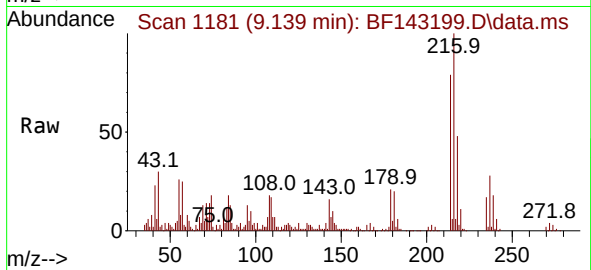
160 43.5 35.1 52.7





#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.979 ng
RT: 9.139 min Scan# 1181
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

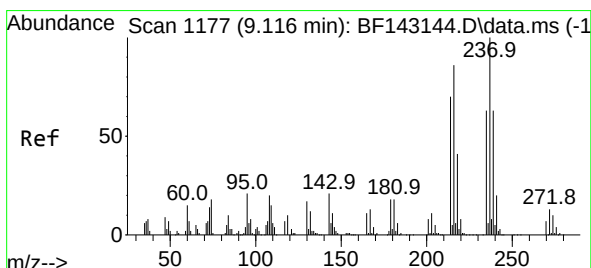
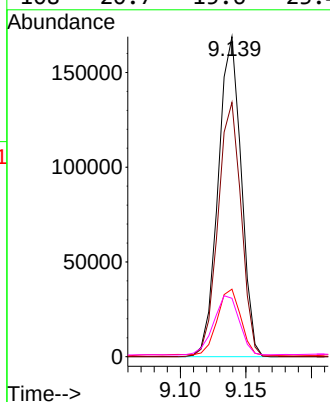
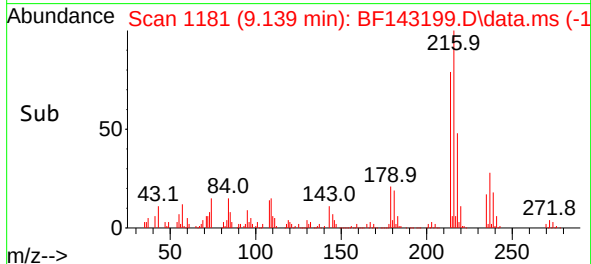
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



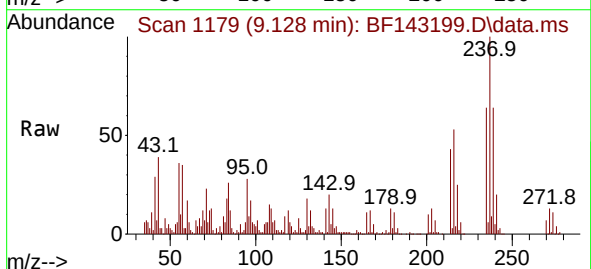
Tgt Ion:216 Resp: 206100
Ion Ratio Lower Upper
216 100
214 79.8 63.8 95.8
179 22.3 16.4 24.6
108 20.7 15.6 23.4

Manual Integrations
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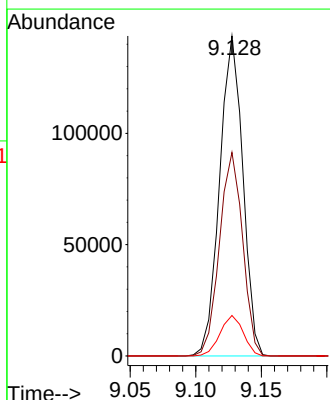
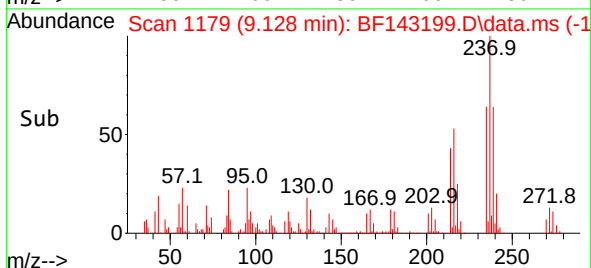
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

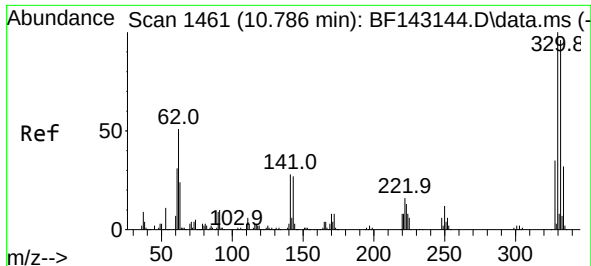


#41
Hexachlorocyclopentadiene
Concen: 53.988 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



Tgt Ion:237 Resp: 176682
Ion Ratio Lower Upper
237 100
235 63.6 43.0 83.0
272 12.7 0.0 33.3





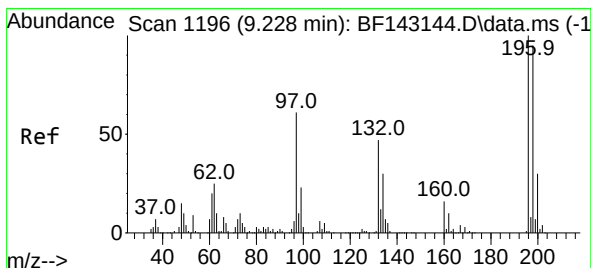
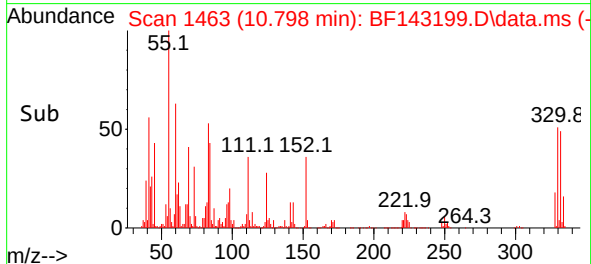
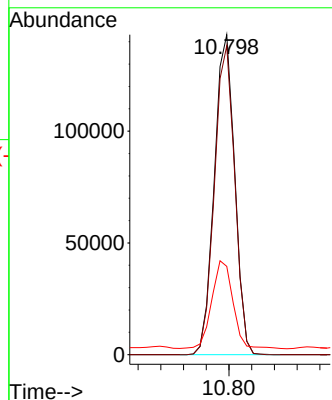
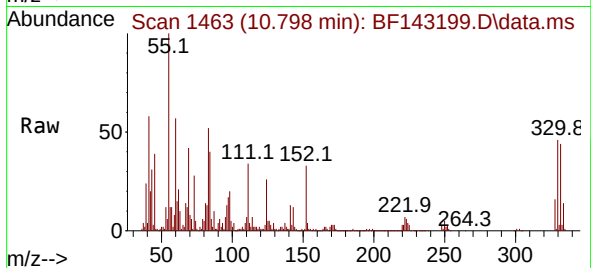
#42
2,4,6-Tribromophenol
Concen: 99.053 ng
RT: 10.798 min Scan# 1463
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:330 Resp: 17826
Ion Ratio Lower Upper
330 100
332 96.3 76.7 115.1
141 28.6 23.3 34.9

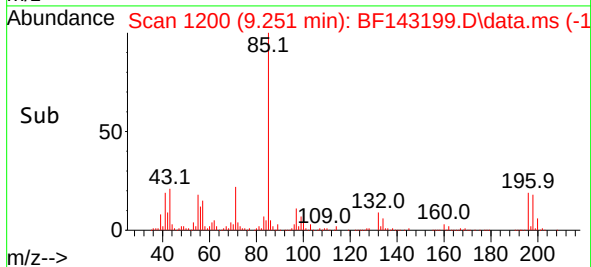
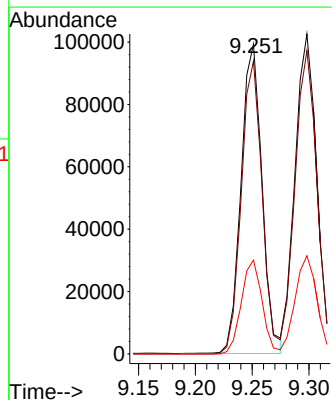
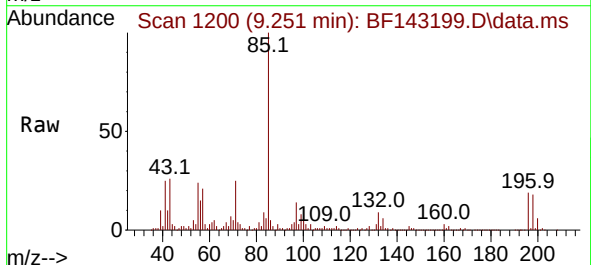
Manual Integrations
APPROVED

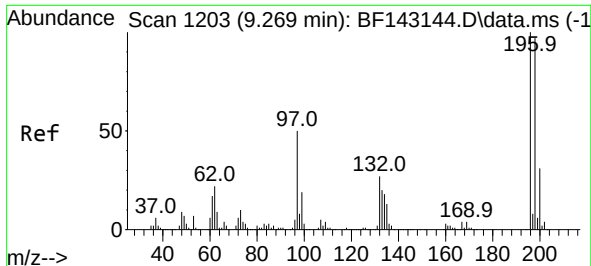
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#43
2,4,6-Trichlorophenol
Concen: 36.459 ng
RT: 9.251 min Scan# 1200
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:196 Resp: 126910
Ion Ratio Lower Upper
196 100
198 94.5 76.2 114.2
200 30.3 23.9 35.9





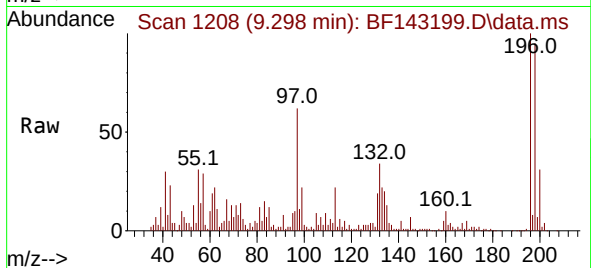
#44
2,4,5-Trichlorophenol
Concen: 38.713 ng
RT: 9.298 min Scan# 1208
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS



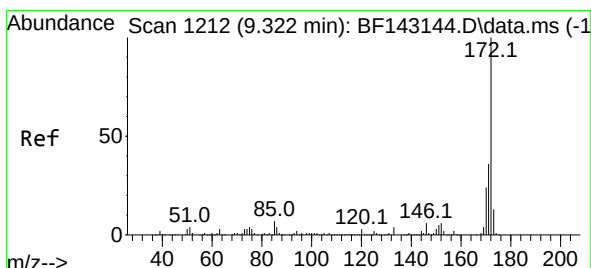
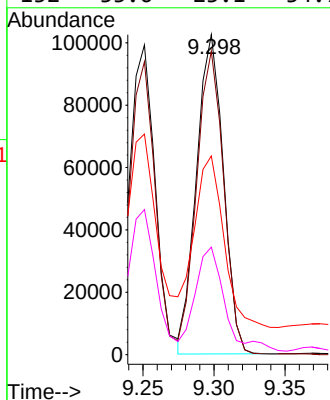
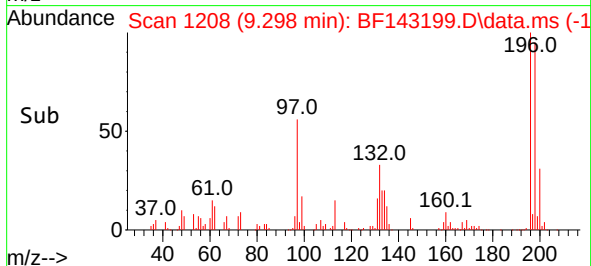
Tgt Ion:196 Resp: 13479
Ion Ratio Lower Upper
196 100
198 94.9 77.3 115.9
97 62.1 40.3 60.5
132 33.6 23.1 34.7

Manual Integrations

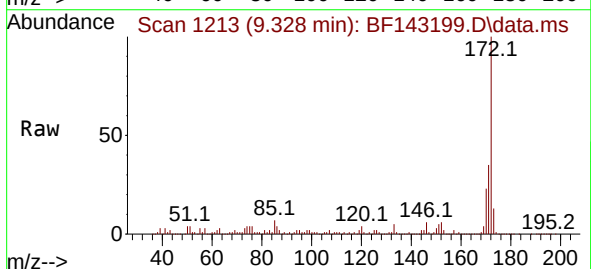
APPROVED

Reviewed By :Rahul Chavli 07/23/2025

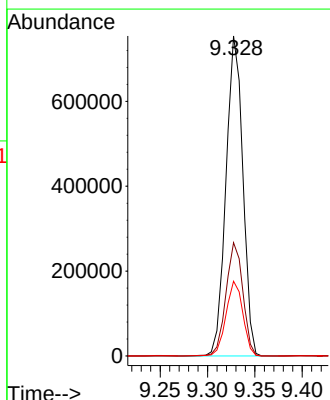
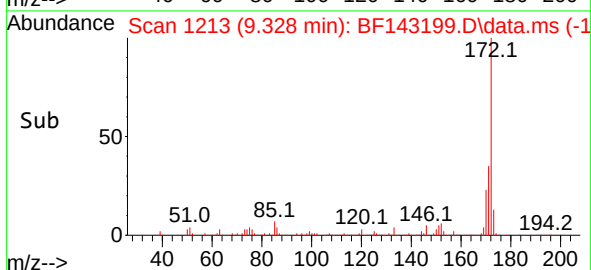
Supervised By :Jagrut Upadhyay 07/23/2025

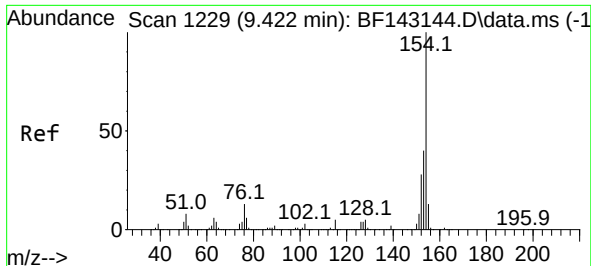


#45
2-Fluorobiphenyl
Concen: 73.412 ng
RT: 9.328 min Scan# 1213
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



Tgt Ion:172 Resp: 935127
Ion Ratio Lower Upper
172 100
171 35.4 28.6 42.8
170 23.4 18.8 28.2





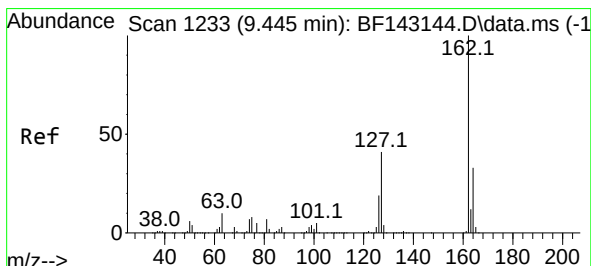
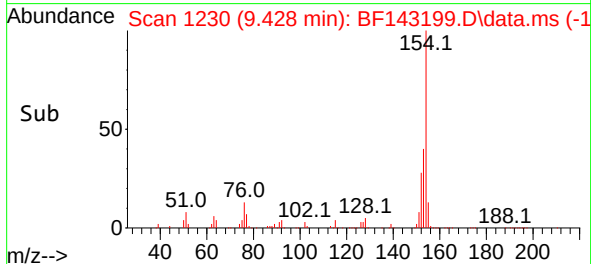
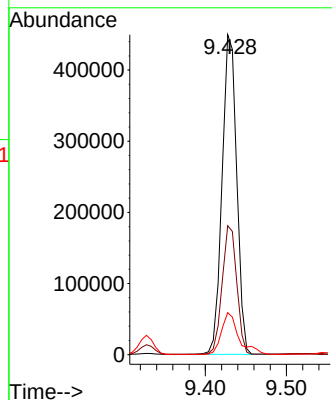
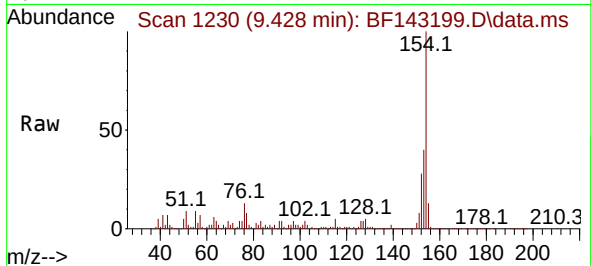
#46
1,1'-Biphenyl
Concen: 41.488 ng
RT: 9.428 min Scan# 1229
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:154 Resp: 56389
Ion Ratio Lower Upper
154 100
153 40.3 20.3 60.3
76 13.2 0.0 33.3

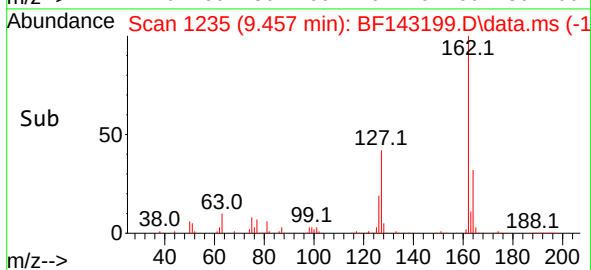
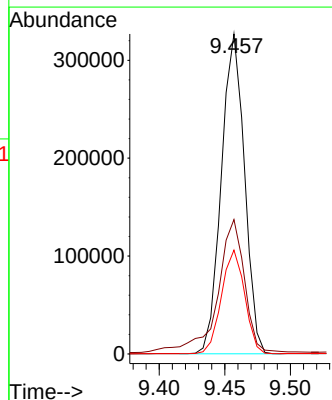
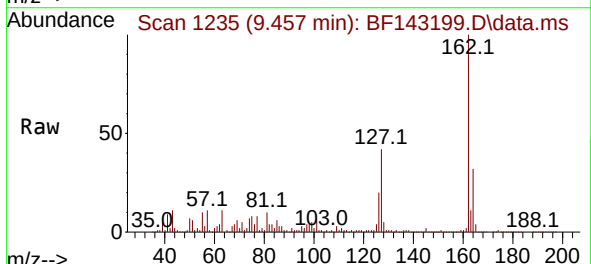
Manual Integrations
APPROVED

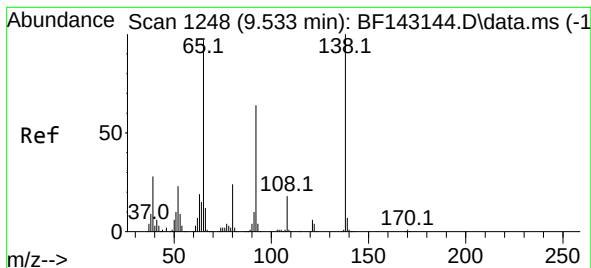
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#47
2-Chloronaphthalene
Concen: 39.817 ng
RT: 9.457 min Scan# 1235
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:162 Resp: 400436
Ion Ratio Lower Upper
162 100
127 42.0 33.4 50.2
164 32.5 26.2 39.2





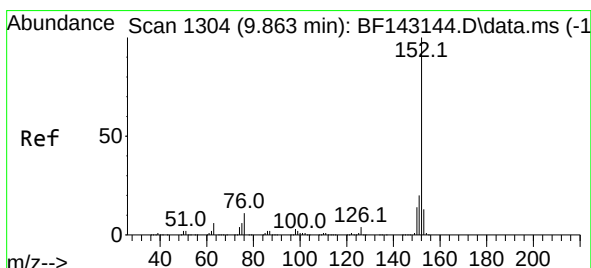
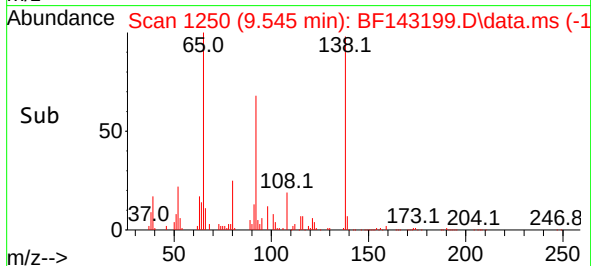
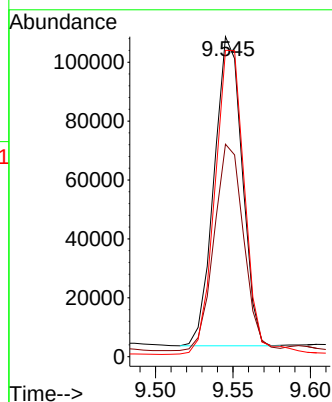
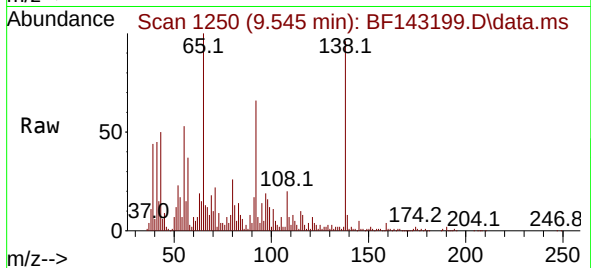
#48
2-Nitroaniline
Concen: 41.864 ng
RT: 9.545 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion: 65 Resp: 13203
Ion Ratio Lower Upper
65 100
92 66.4 52.4 78.6
138 95.8 82.3 123.5

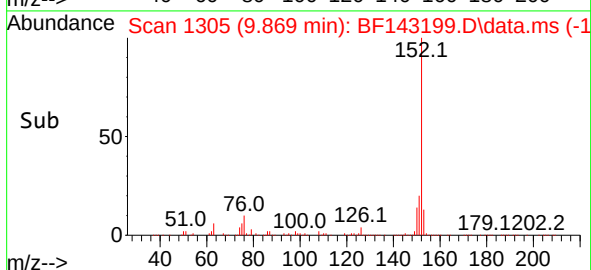
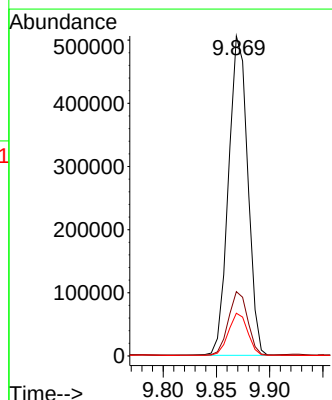
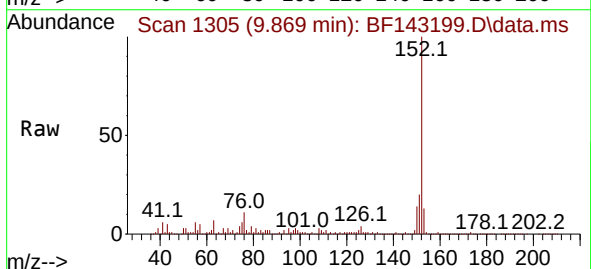
Manual Integrations
APPROVED

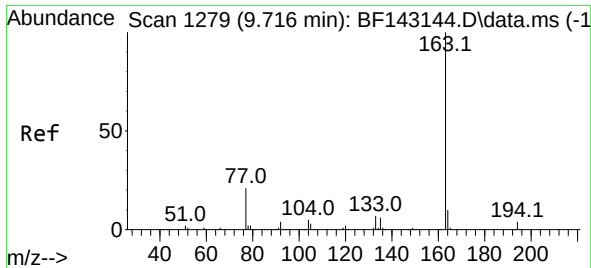
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#49
Acenaphthylene
Concen: 37.632 ng
RT: 9.869 min Scan# 1305
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

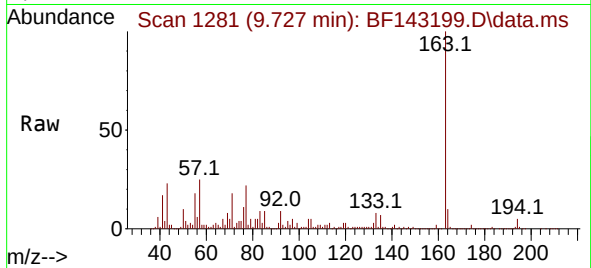
Tgt Ion:152 Resp: 634232
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.3 10.6 16.0





#50
Dimethylphthalate
Concen: 39.673 ng
RT: 9.727 min Scan# 1281
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

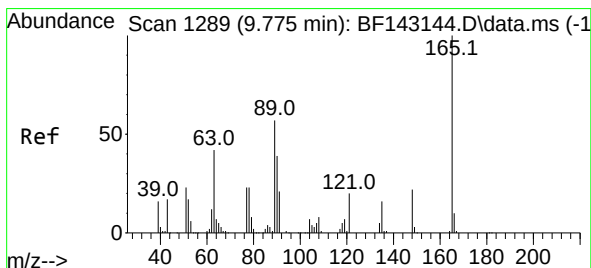
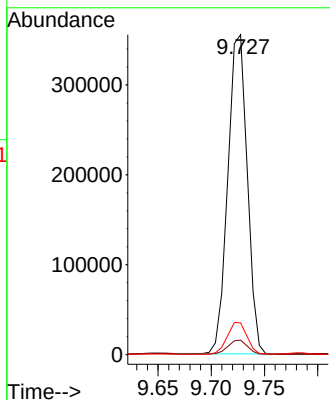
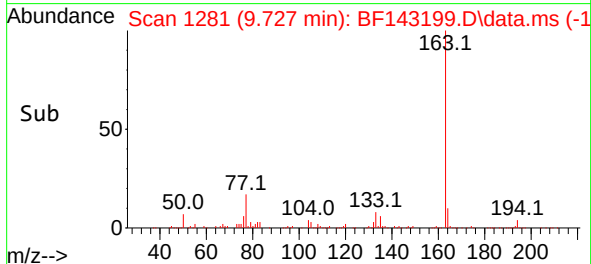
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



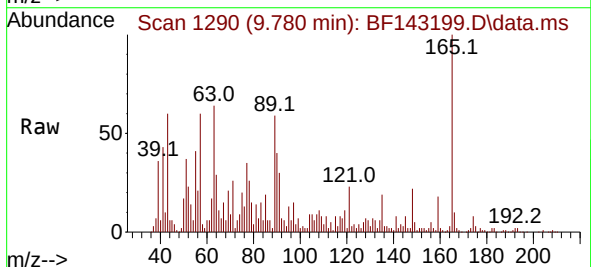
Tgt Ion:163 Resp: 45049
Ion Ratio Lower Upper
163 100
194 4.5 3.4 5.2
164 10.0 8.3 12.5

Manual Integrations
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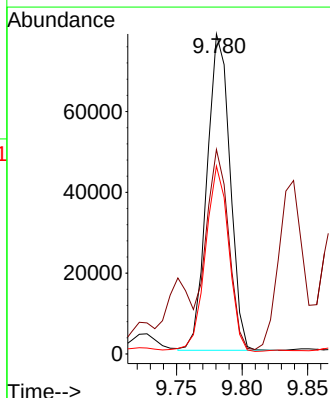
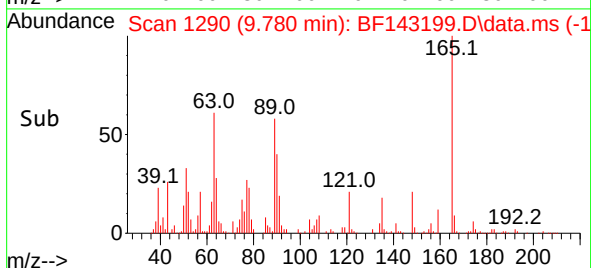
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

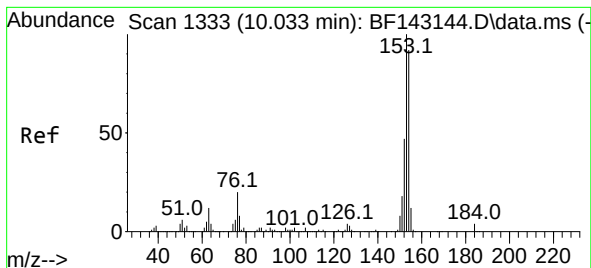


#51
2,6-Dinitrotoluene
Concen: 41.471 ng
RT: 9.780 min Scan# 1290
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



Tgt Ion:165 Resp: 95799
Ion Ratio Lower Upper
165 100
63 63.9 49.4 74.2
89 58.7 46.2 69.2





#52

Acenaphthene

Concen: 40.018 ng

RT: 10.039 min Scan# 1333

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:154 Resp: 398628

Ion Ratio Lower Upper

154 100

153 109.0 86.6 129.8

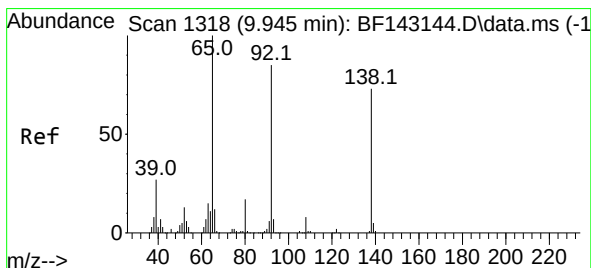
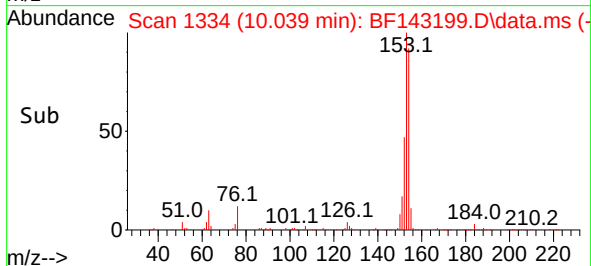
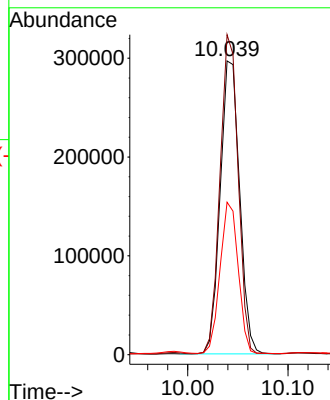
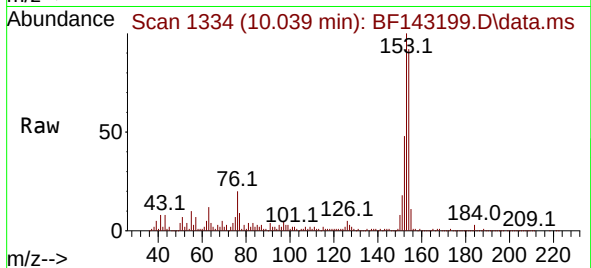
152 51.9 40.4 60.6

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#53

3-Nitroaniline

Concen: 2.550 ng

RT: 9.963 min Scan# 1321

Delta R.T. 0.018 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

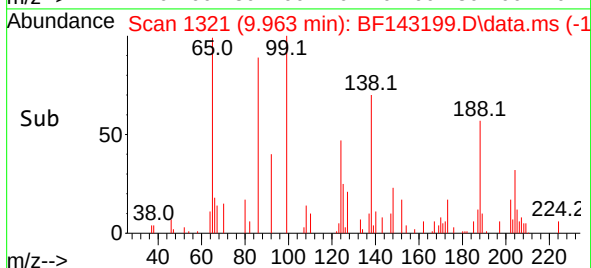
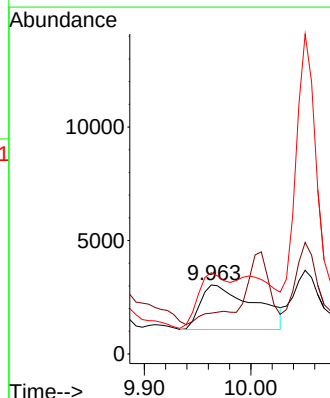
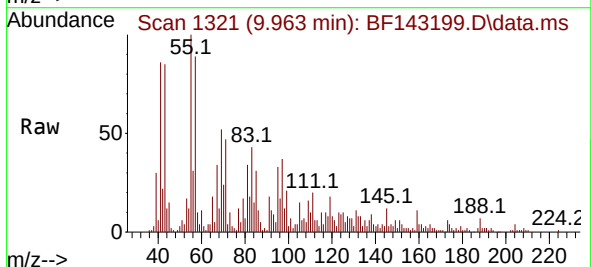
Tgt Ion:138 Resp: 6891

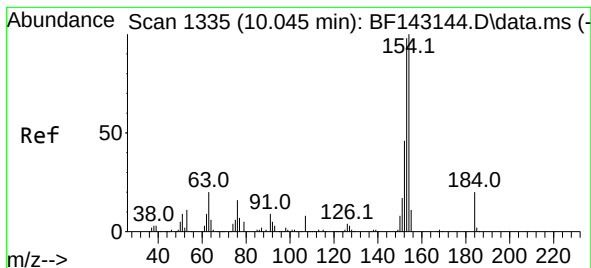
Ion Ratio Lower Upper

138 100

108 59.2 9.0 13.6#

92 117.7 93.0 139.4





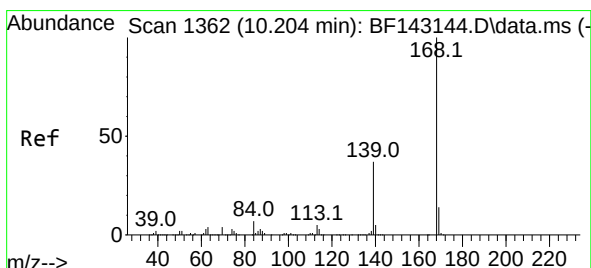
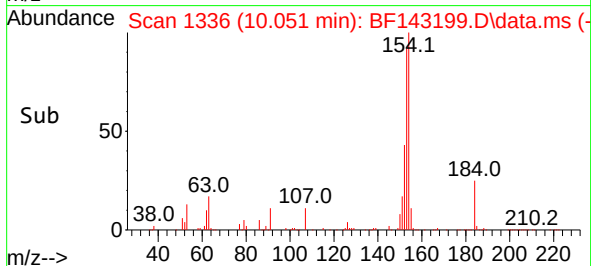
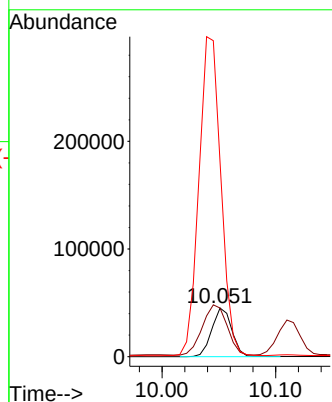
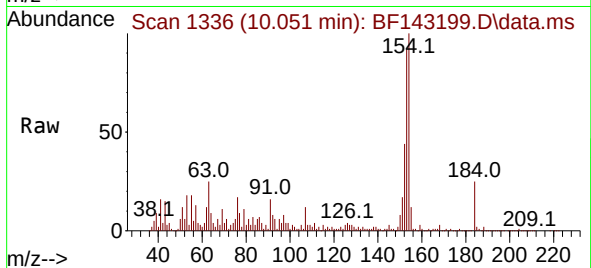
#54
2,4-Dinitrophenol
Concen: 55.089 ng
RT: 10.051 min Scan# 1335
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:184 Resp: 55300
Ion Ratio Lower Upper
184 100
63 99.9 81.8 122.6
154 400.2 412.2 618.4

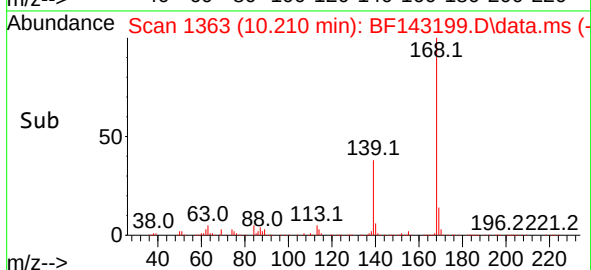
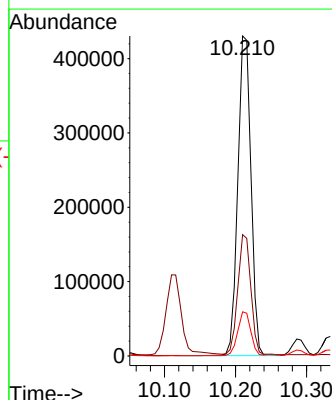
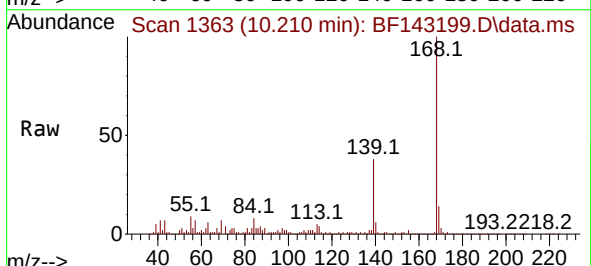
Manual Integrations
APPROVED

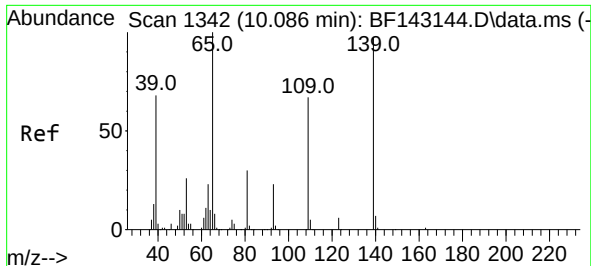
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#55
Dibenzofuran
Concen: 37.495 ng
RT: 10.210 min Scan# 1363
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

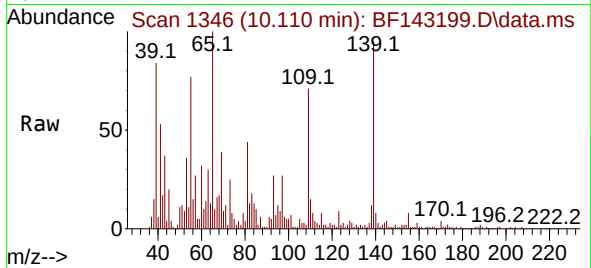
Tgt Ion:168 Resp: 554525
Ion Ratio Lower Upper
168 100
139 37.9 29.5 44.3
169 13.8 10.9 16.3





#56
4-Nitrophenol
Concen: 80.702 ng
RT: 10.110 min Scan# 1346
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

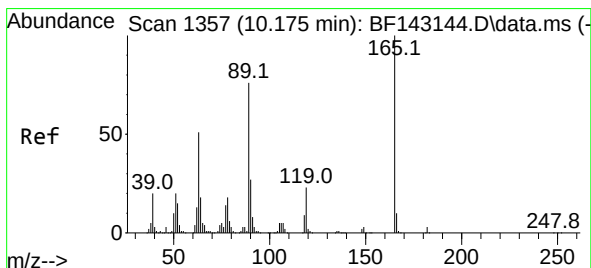
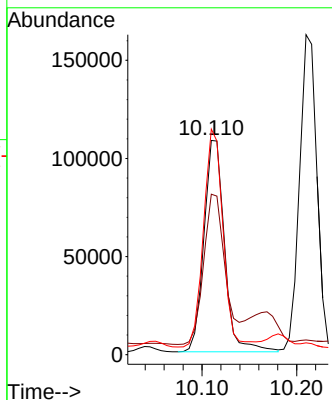
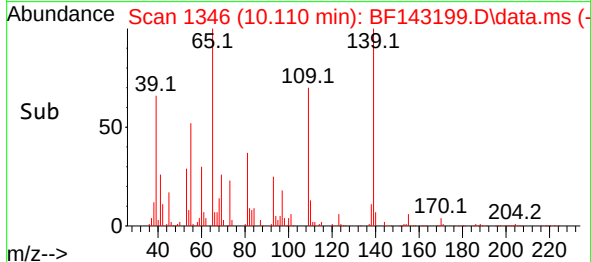
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:139 Resp: 162828
Ion Ratio Lower Upper
139 100
109 74.9 48.5 88.5
65 105.3 83.4 123.4

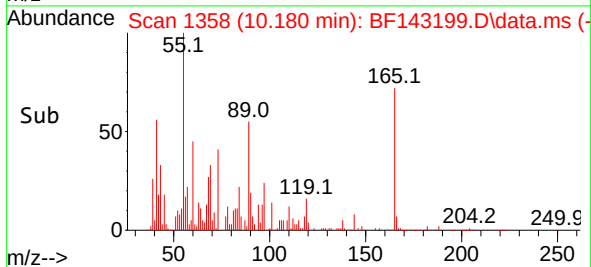
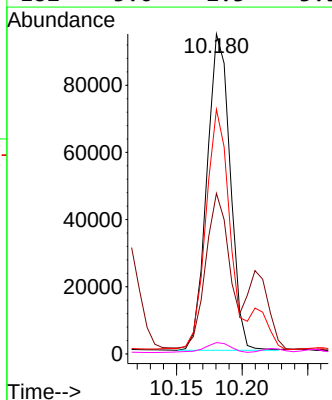
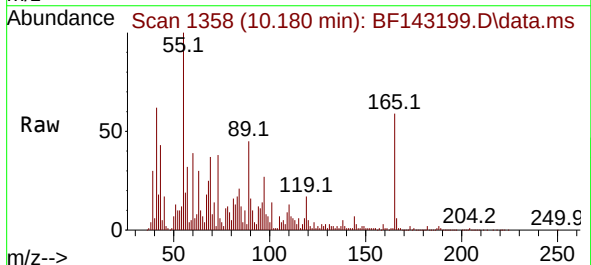
Manual Integrations
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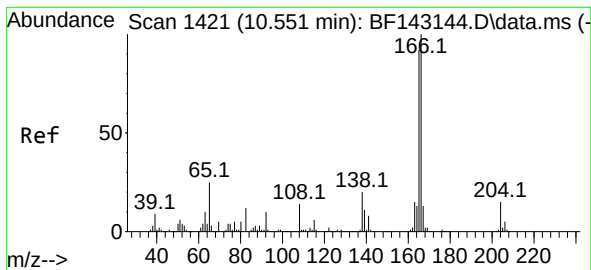
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#57
2,4-Dinitrotoluene
Concen: 40.174 ng
RT: 10.180 min Scan# 1358
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

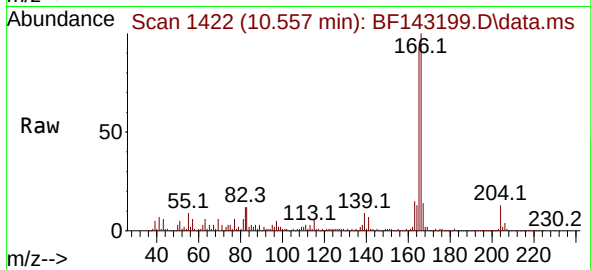
Tgt Ion:165 Resp: 116431
Ion Ratio Lower Upper
165 100
63 50.2 41.0 61.4
89 76.4 61.1 91.7
182 3.6 2.3 3.5#





#58
 Fluorene
 Concen: 38.577 ng
 RT: 10.557 min Scan# 1422
 Delta R.T. 0.006 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

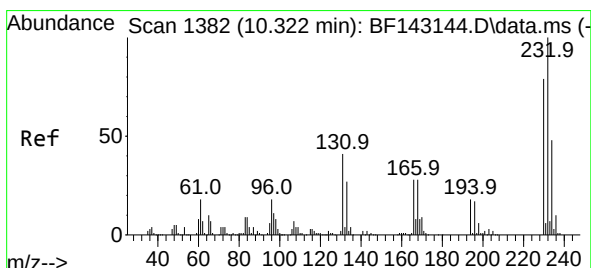
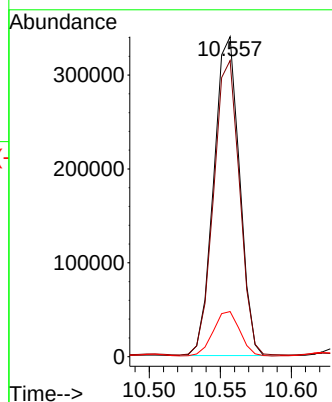
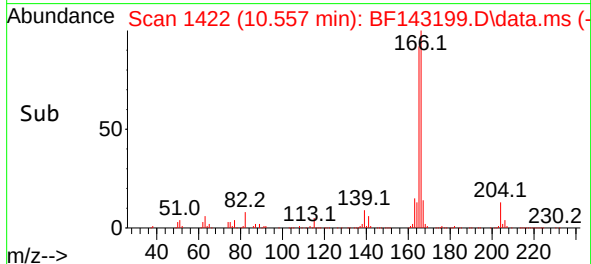
Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS



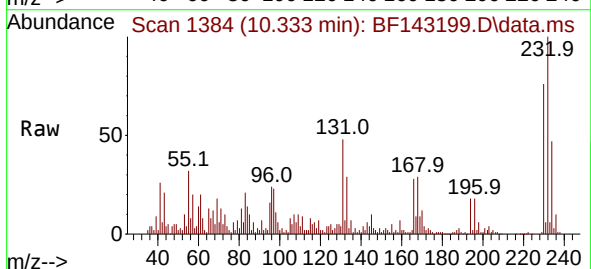
Tgt Ion:166 Resp: 428198
 Ion Ratio Lower Upper
 166 100
 165 92.5 73.7 110.5
 167 14.1 10.6 16.0

Manual Integrations
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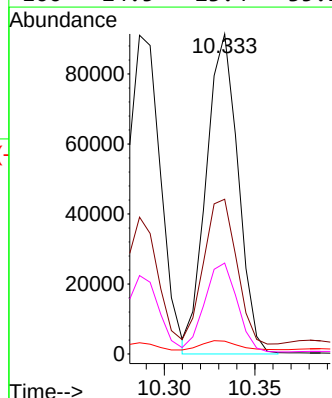
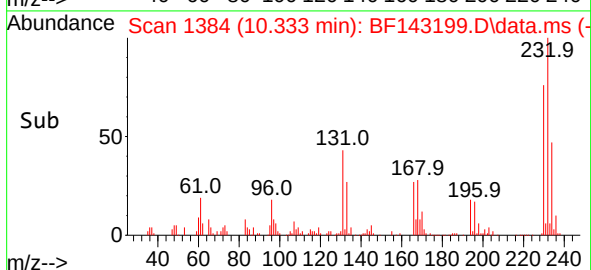
Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

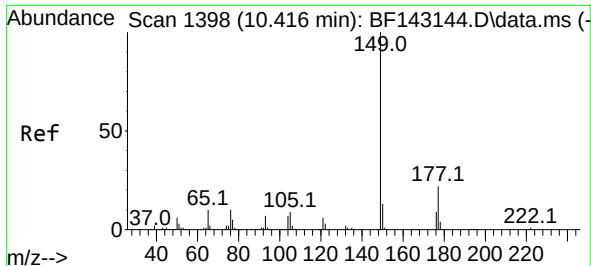


#59
 2,3,4,6-Tetrachlorophenol
 Concen: 38.836 ng m
 RT: 10.333 min Scan# 1384
 Delta R.T. 0.012 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20



Tgt Ion:232 Resp: 112015
 Ion Ratio Lower Upper
 232 100
 131 41.4 35.3 52.9
 130 2.5 1.7 2.5#
 166 24.5 23.4 35.2





#60
Diethylphthalate
Concen: 45.135 ng
RT: 10.422 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

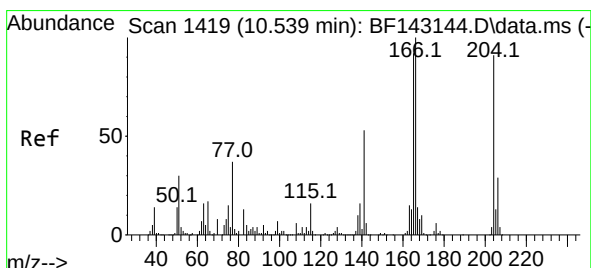
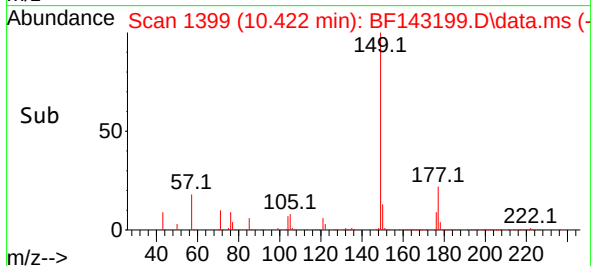
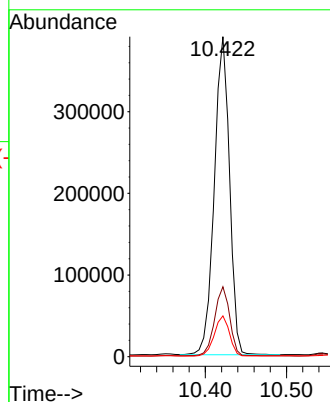
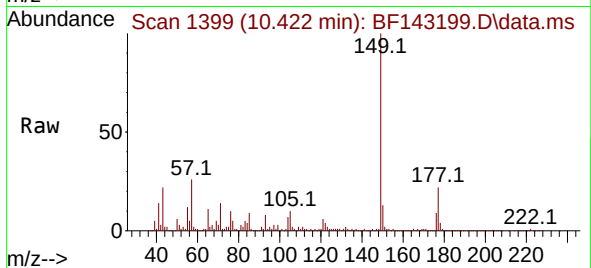
FRAC TANKMS

Tgt Ion:149 Resp: 50658
Ion Ratio Lower Upper
149 100
177 21.9 17.5 26.3
150 12.7 10.2 15.2

Manual Integrations

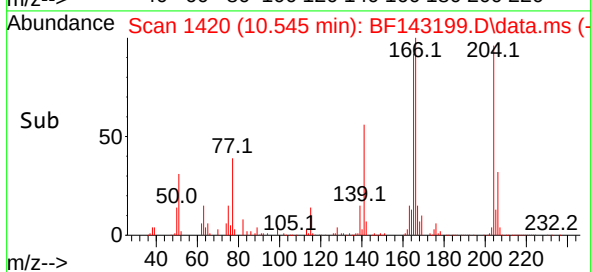
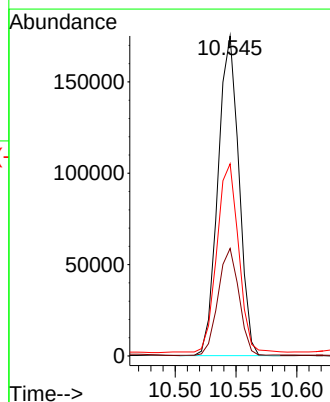
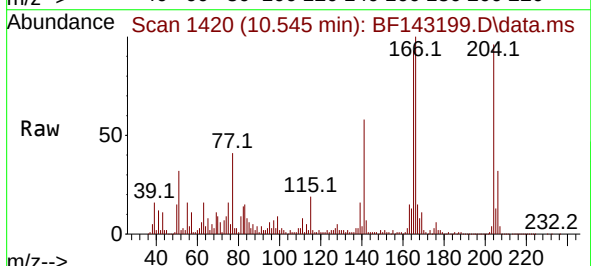
APPROVED

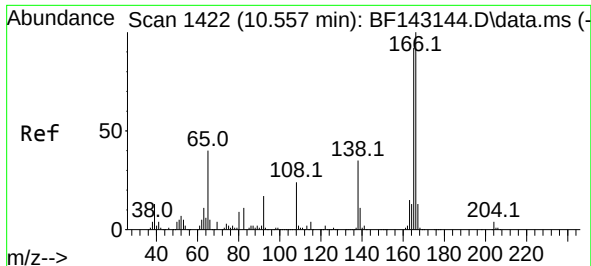
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#61
4-Chlorophenyl-phenylether
Concen: 37.896 ng
RT: 10.545 min Scan# 1420
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:204 Resp: 209454
Ion Ratio Lower Upper
204 100
206 33.6 25.8 38.8
141 60.1 47.0 70.4





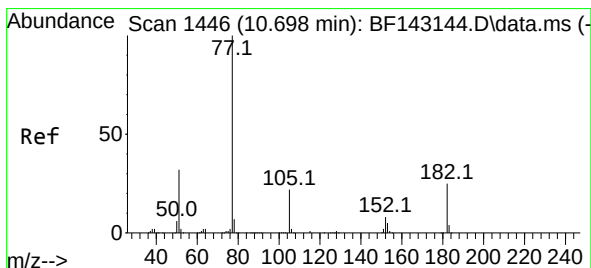
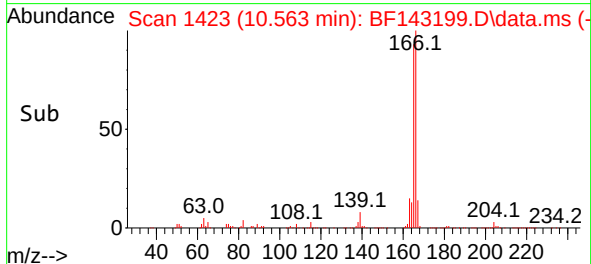
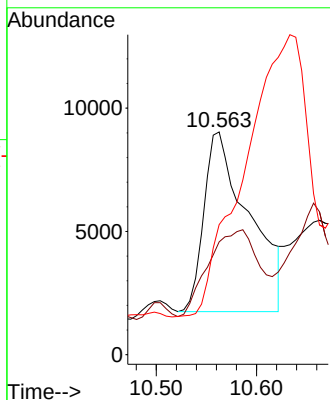
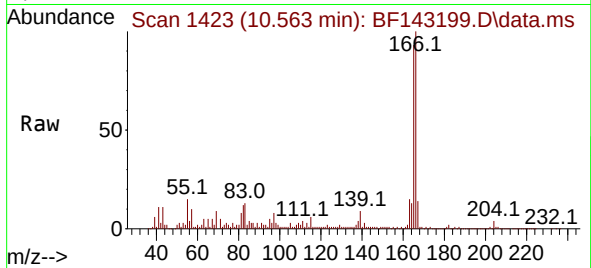
#62
4-Nitroaniline
Concen: 9.823 ng
RT: 10.563 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:138 Resp: 2274
Ion Ratio Lower Upper
138 100
92 50.7 29.3 69.3
108 58.5 48.3 88.3

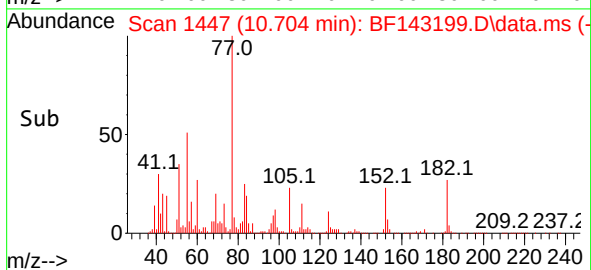
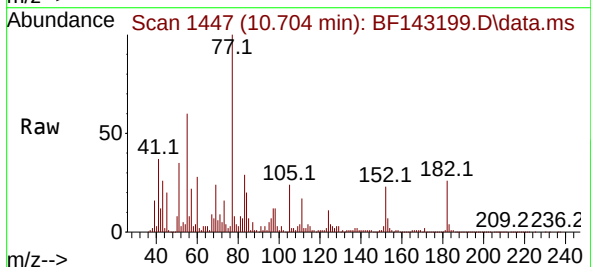
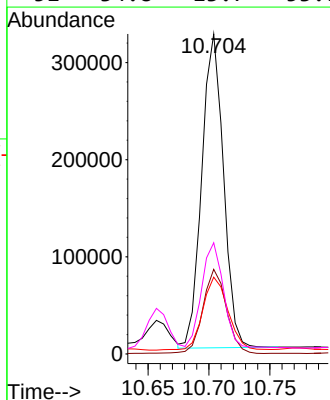
Manual Integrations
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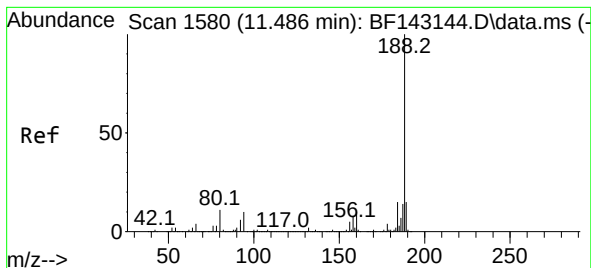
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#63
Azobenzene
Concen: 34.302 ng
RT: 10.704 min Scan# 1447
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion: 77 Resp: 401256
Ion Ratio Lower Upper
77 100
182 26.4 4.6 44.6
105 24.0 1.4 41.4
51 34.8 13.7 53.7





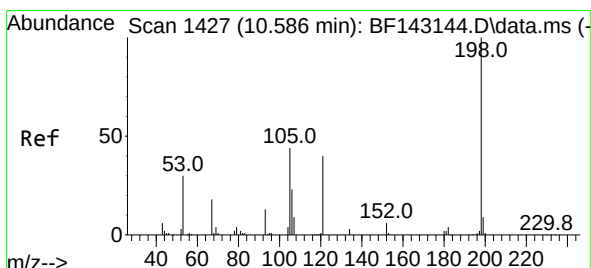
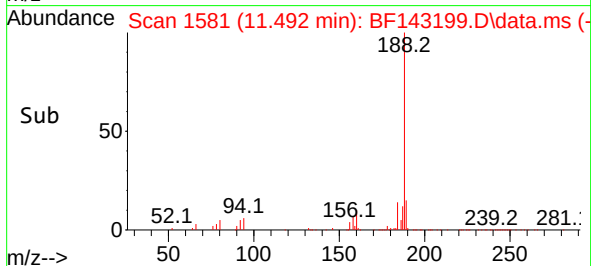
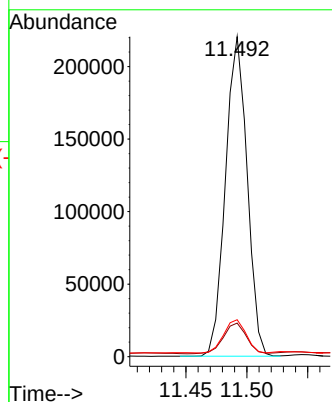
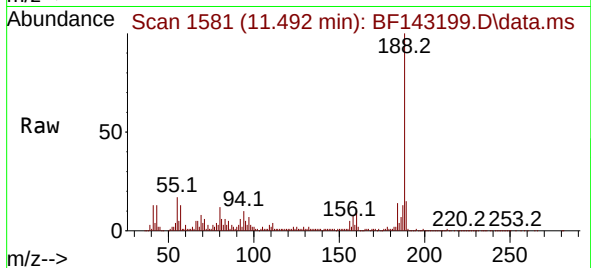
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:188 Resp: 27350
Ion Ratio Lower Upper
188 100
94 10.5 8.3 12.5
80 11.6 9.0 13.6

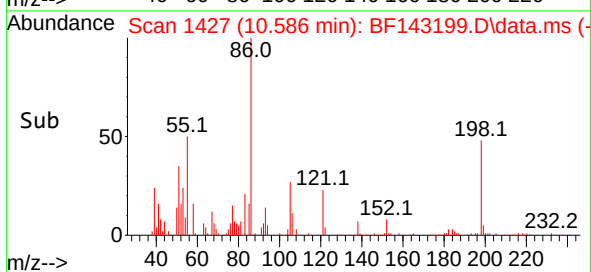
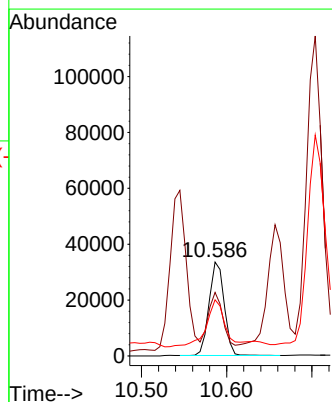
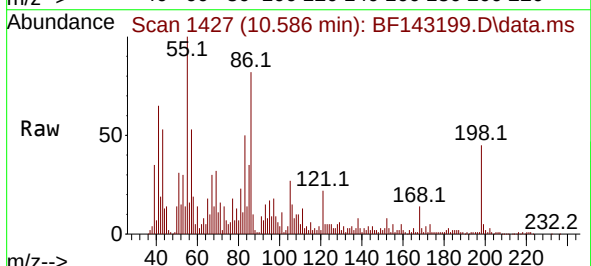
Manual Integrations
APPROVED

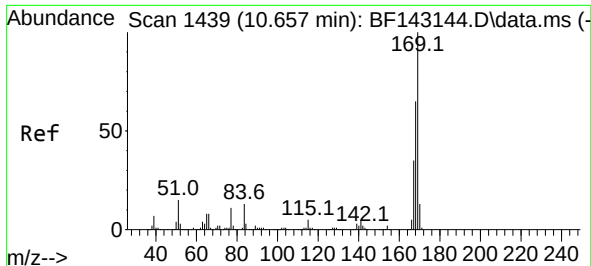
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#65
4,6-Dinitro-2-methylphenol
Concen: 30.931 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

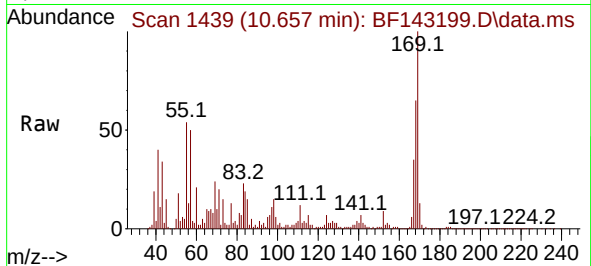
Tgt Ion:198 Resp: 41238
Ion Ratio Lower Upper
198 100
51 67.7 37.2 77.2
105 59.9 24.8 64.8





#66
n-Nitrosodiphenylamine
Concen: 34.900 ng
RT: 10.657 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

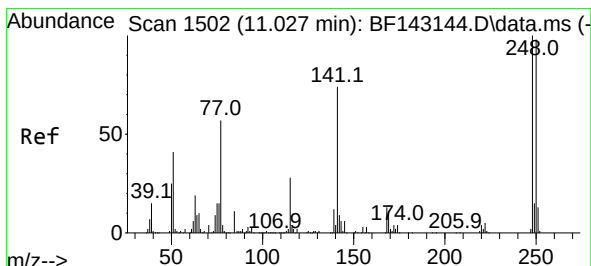
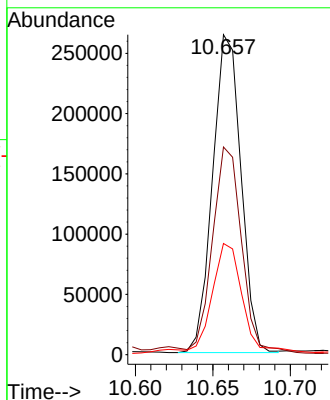
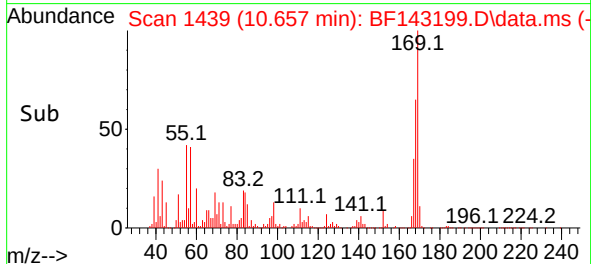
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



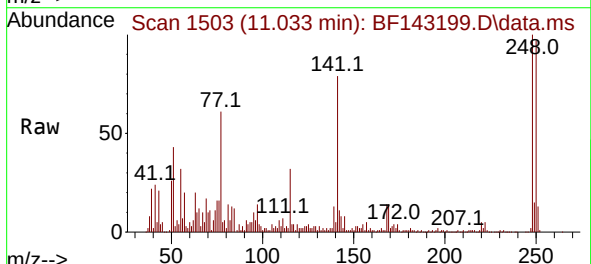
Tgt Ion:169 Resp: 336118
Ion Ratio Lower Upper
169 100
168 64.9 52.1 78.1
167 34.8 28.2 42.2

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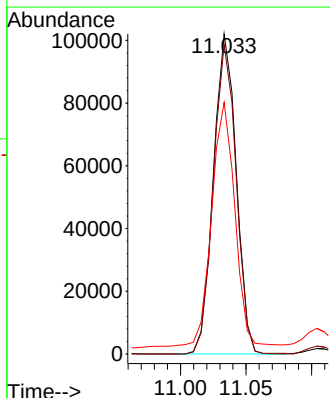
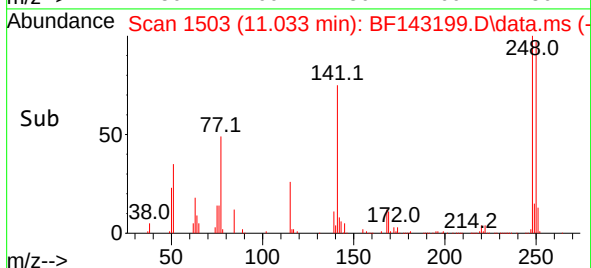
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

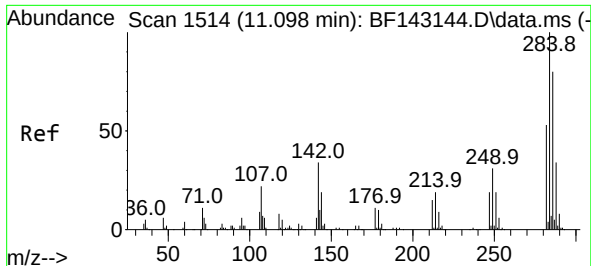


#67
4-Bromophenyl-phenylether
Concen: 37.814 ng
RT: 11.033 min Scan# 1503
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



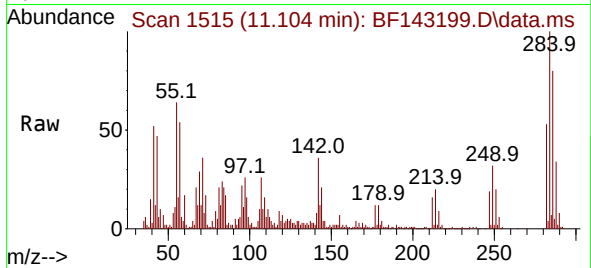
Tgt Ion:248 Resp: 123252
Ion Ratio Lower Upper
248 100
250 96.7 78.3 117.5
141 78.6 59.2 88.8





#68
Hexachlorobenzene
Concen: 37.183 ng
RT: 11.104 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

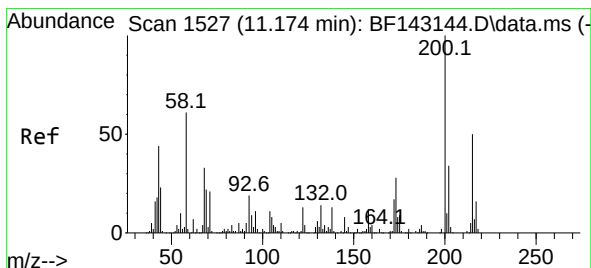
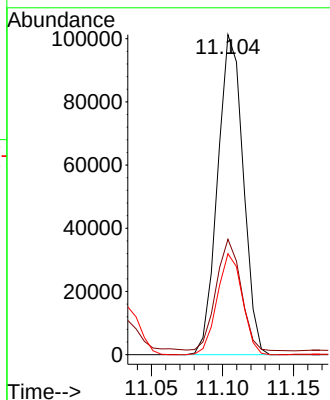
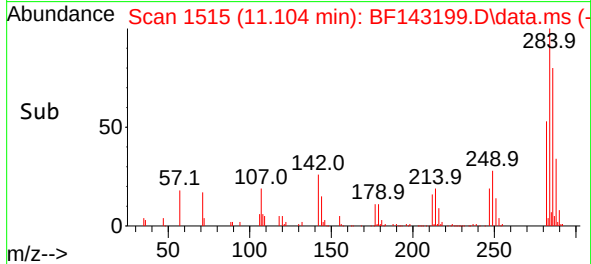
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:284 Resp: 12667
Ion Ratio Lower Upper
284 100
142 36.1 27.0 40.6
249 31.6 25.0 37.6

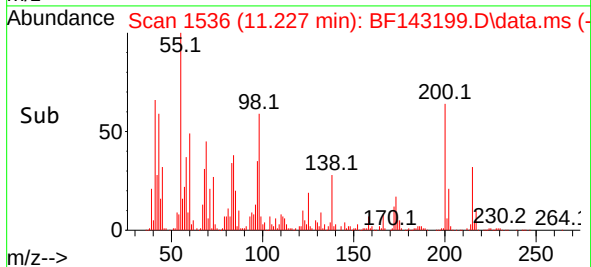
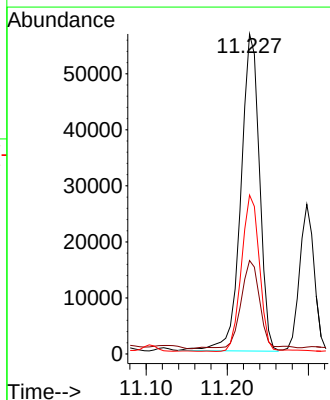
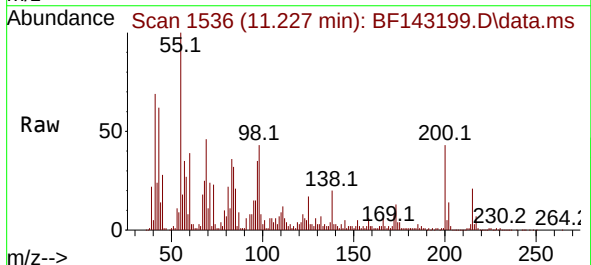
Manual Integrations
APPROVED

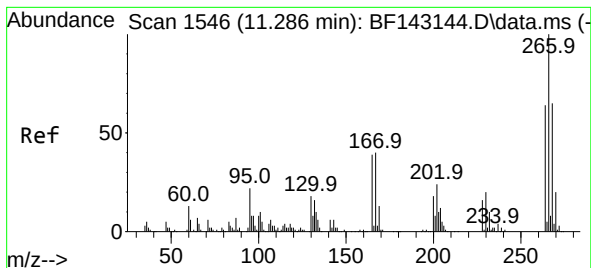
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#69
Atrazine
Concen: 33.915 ng
RT: 11.227 min Scan# 1536
Delta R.T. 0.053 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:200 Resp: 90049
Ion Ratio Lower Upper
200 100
173 29.2 7.9 47.9
215 49.6 30.1 70.1





#70

Pentachlorophenol

Concen: 91.211 ng

RT: 11.298 min Scan# 1548

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:266 Resp: 182738

Ion Ratio Lower Upper

266 100

268 63.3 51.9 77.9

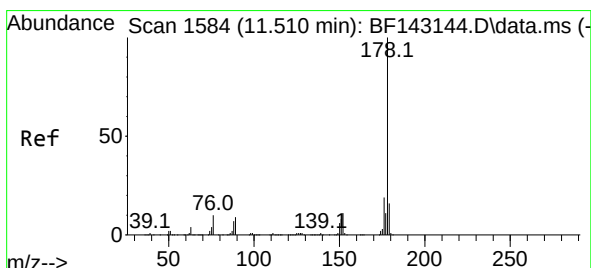
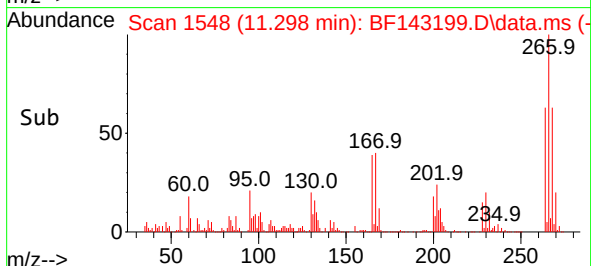
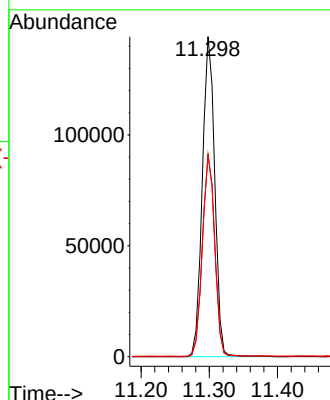
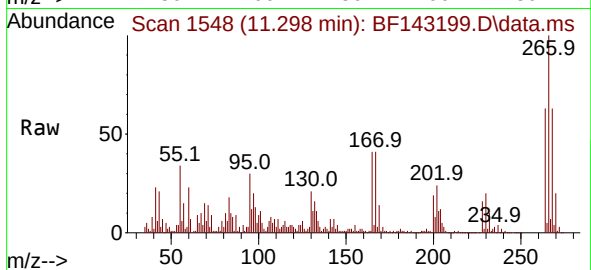
264 63.0 51.0 76.6

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#71

Phenanthrene

Concen: 39.993 ng

RT: 11.516 min Scan# 1585

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

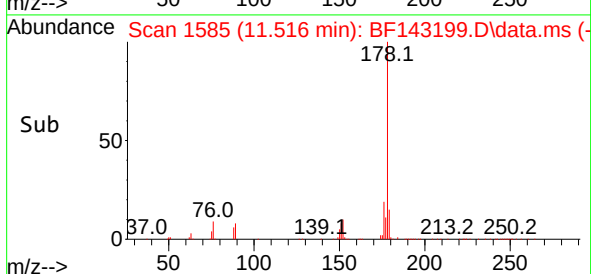
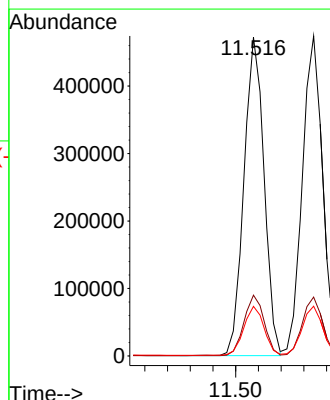
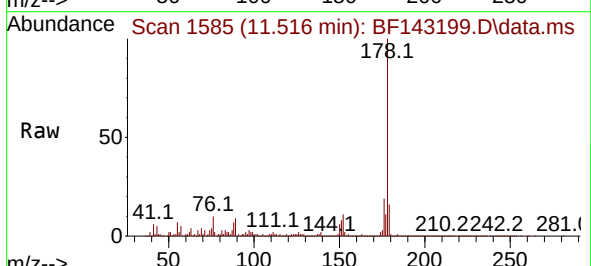
Tgt Ion:178 Resp: 580774

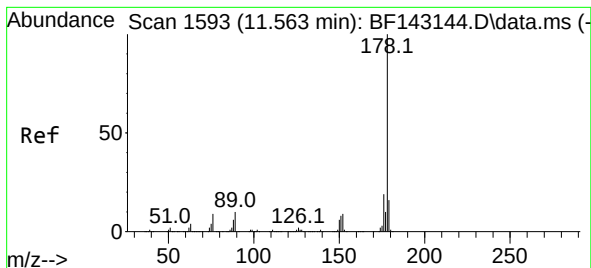
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.6 12.5 18.7





#72

Anthracene

Concen: 39.452 ng

RT: 11.569 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:178 Resp: 58431

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

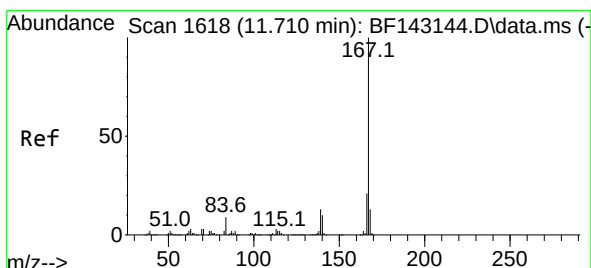
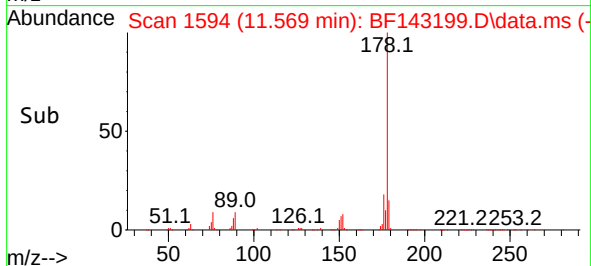
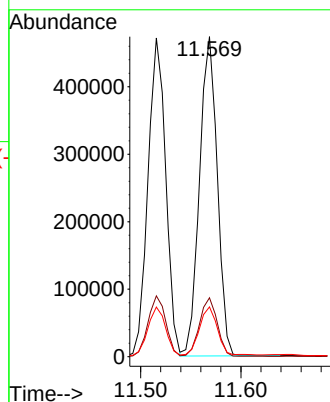
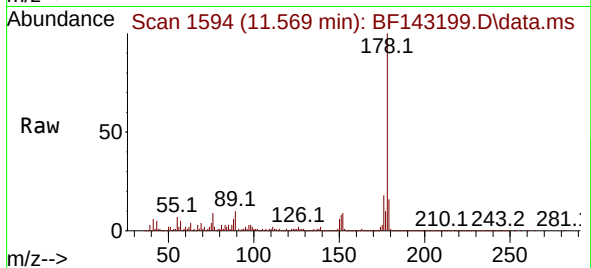
179 15.5 12.5 18.7

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#73

Carbazole

Concen: 42.231 ng

RT: 11.721 min Scan# 1620

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

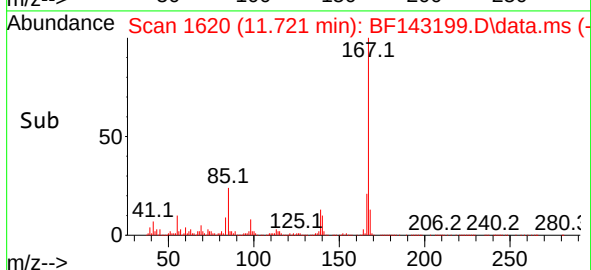
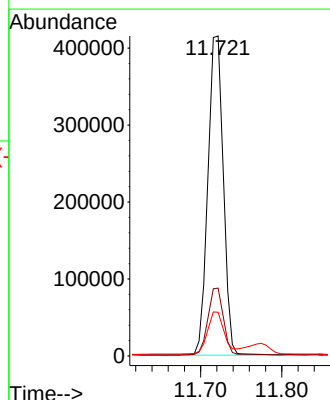
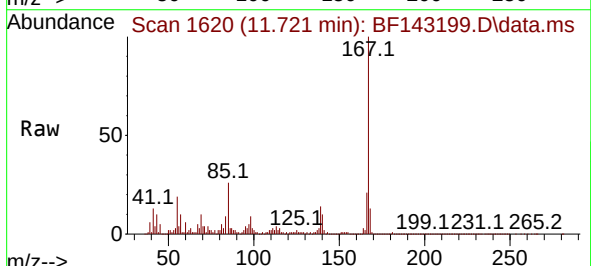
Tgt Ion:167 Resp: 546164

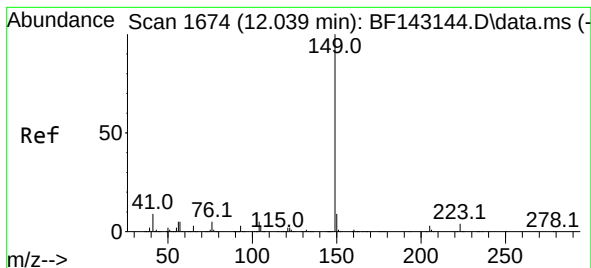
Ion Ratio Lower Upper

167 100

166 21.2 17.0 25.6

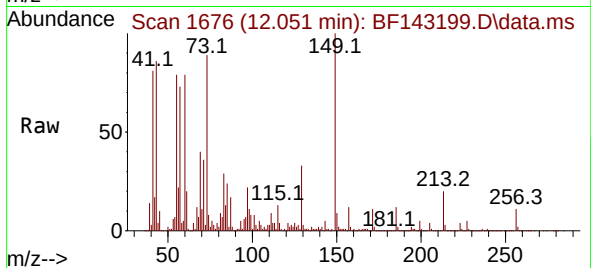
139 13.7 10.0 15.0





#74
Di-n-butylphthalate
Concen: 37.497 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.012 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

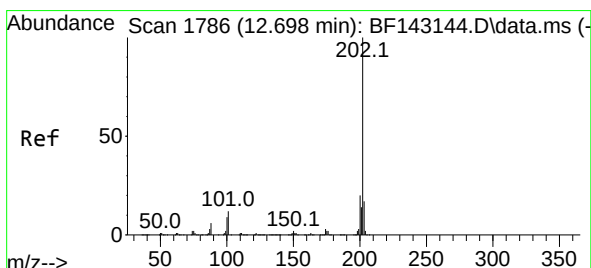
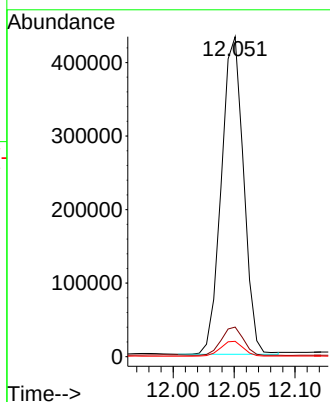
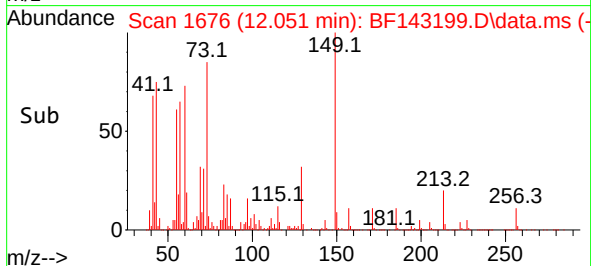
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:149 Resp: 548715
Ion Ratio Lower Upper
149 100
150 9.2 7.4 11.2
104 4.8 3.8 5.8

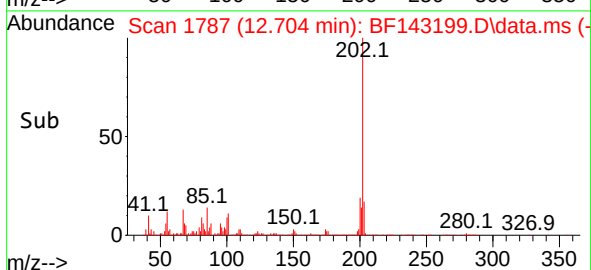
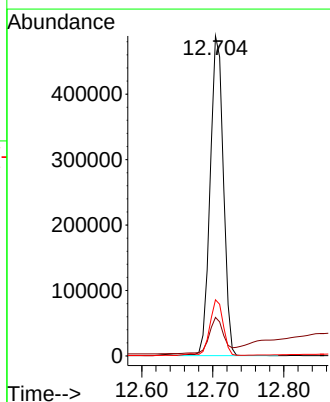
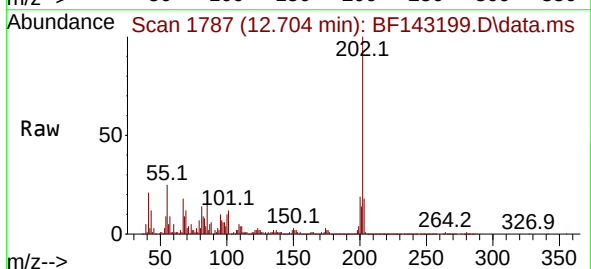
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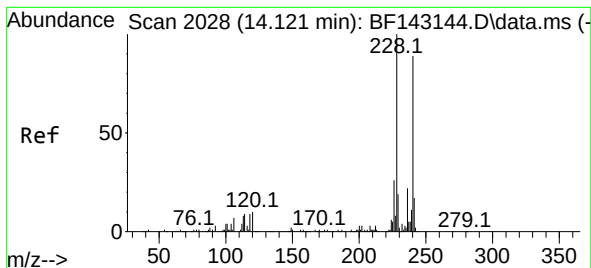
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#75
Fluoranthene
Concen: 47.268 ng
RT: 12.704 min Scan# 1787
Delta R.T. 0.006 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:202 Resp: 630057
Ion Ratio Lower Upper
202 100
101 12.0 0.0 31.7
203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.151 min Scan# 20

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:240 Resp: 25685

Ion Ratio Lower Upper

240 100

120 11.4 9.4 14.2

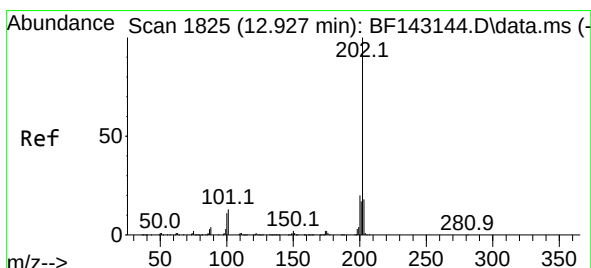
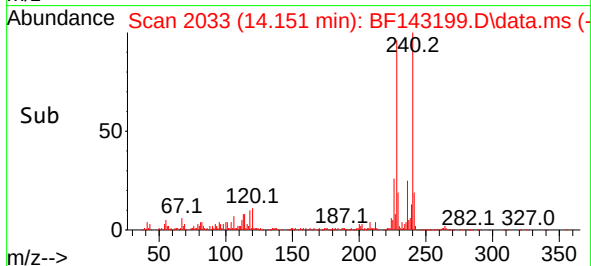
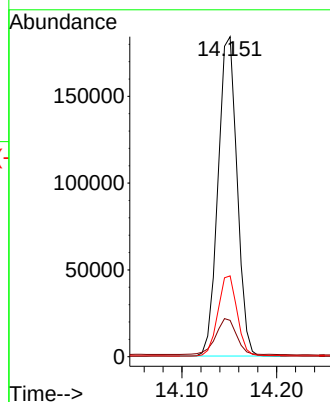
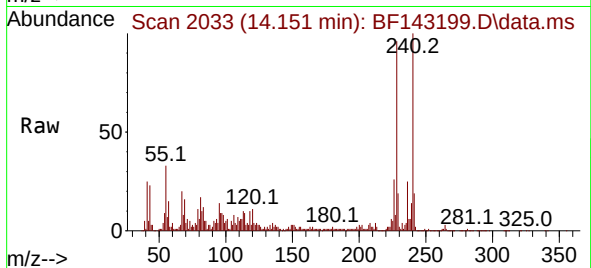
236 25.2 20.2 30.4

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#78

Pyrene

Concen: 9.998 ng

RT: 12.939 min Scan# 1827

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

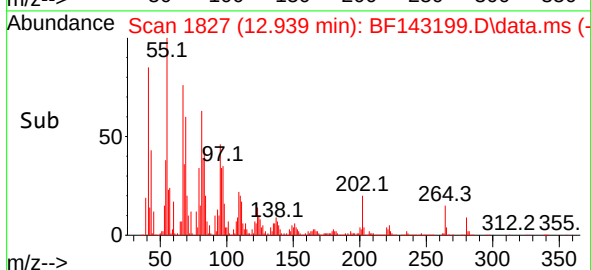
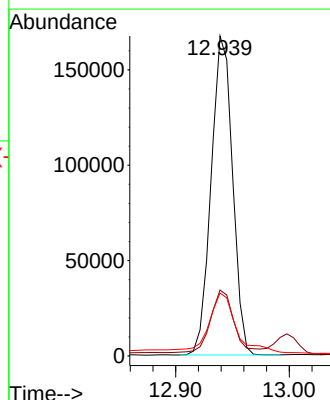
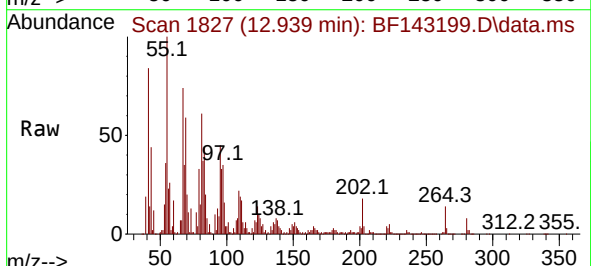
Tgt Ion:202 Resp: 219163

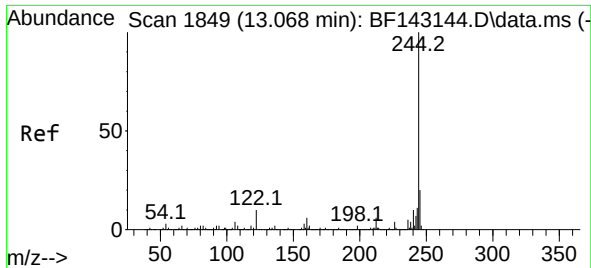
Ion Ratio Lower Upper

202 100

200 20.6 15.7 23.5

203 19.7 14.2 21.2





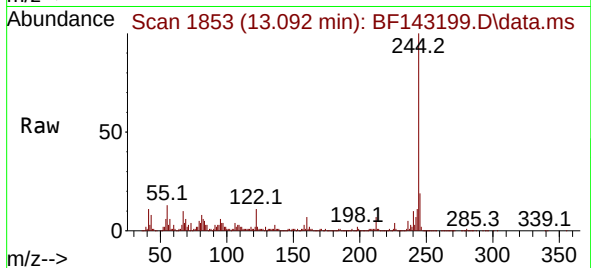
#79
 Terphenyl-d14
 Concen: 46.752 ng
 RT: 13.092 min Scan# 1849
 Delta R.T. 0.023 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS



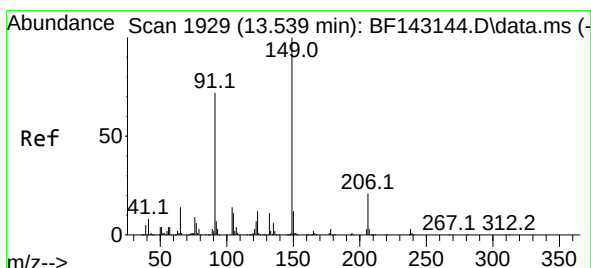
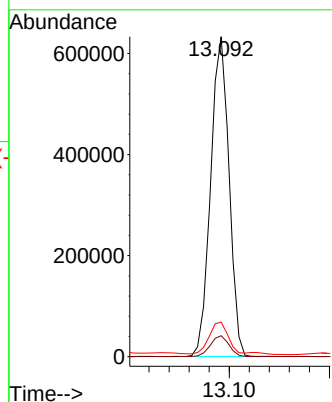
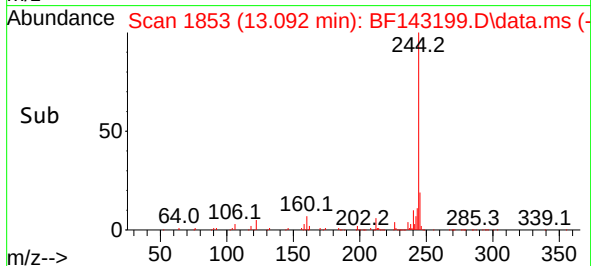
Tgt Ion:244 Resp: 806959
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.2 7.8
 122 10.8 8.2 12.2

Manual Integrations

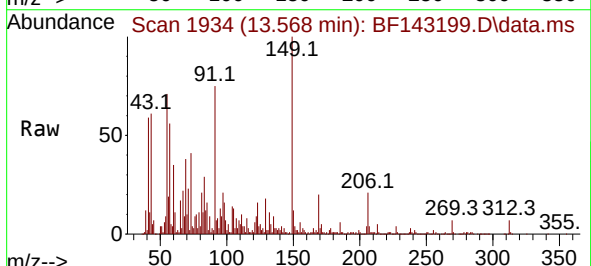
APPROVED

Reviewed By :Rahul Chavli 07/23/2025

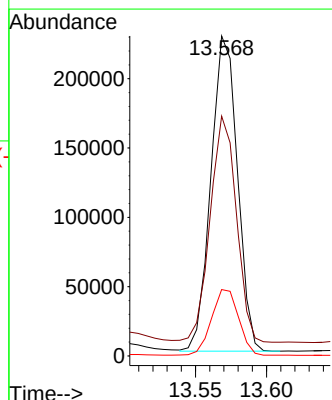
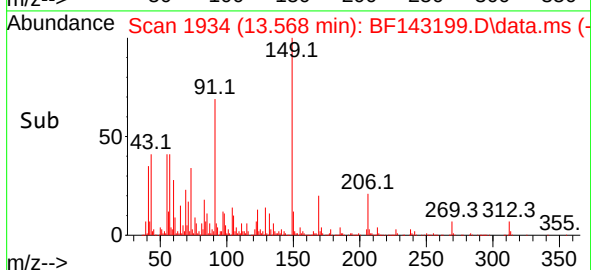
Supervised By :Jagrut Upadhyay 07/23/2025

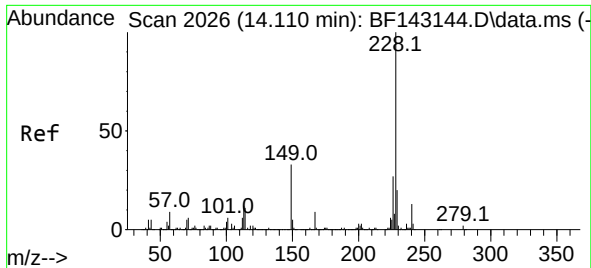


#80
 Butylbenzylphthalate
 Concen: 43.959 ng
 RT: 13.568 min Scan# 1934
 Delta R.T. 0.029 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20



Tgt Ion:149 Resp: 295074
 Ion Ratio Lower Upper
 149 100
 91 75.0 57.9 86.9
 206 20.8 17.0 25.4





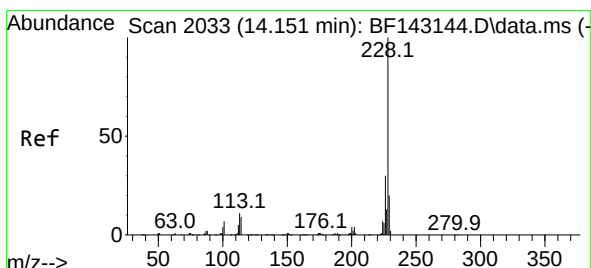
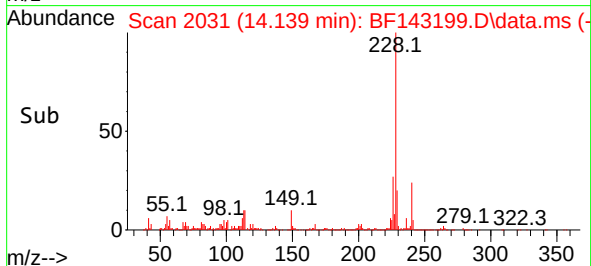
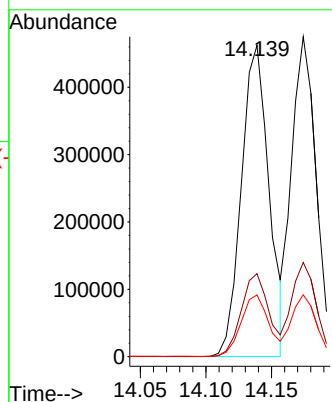
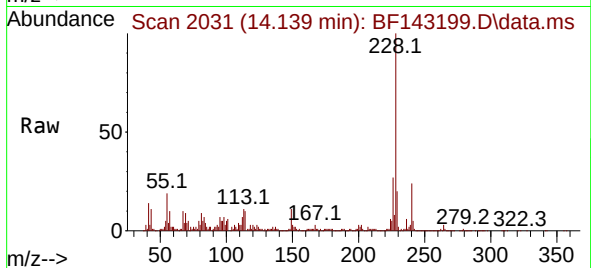
#81
Benzo(a)anthracene
Concen: 39.404 ng
RT: 14.139 min Scan# 2026
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS

Tgt Ion:228 Resp: 677602
Ion Ratio Lower Upper
228 100
226 26.7 21.7 32.5
229 19.8 15.8 23.6

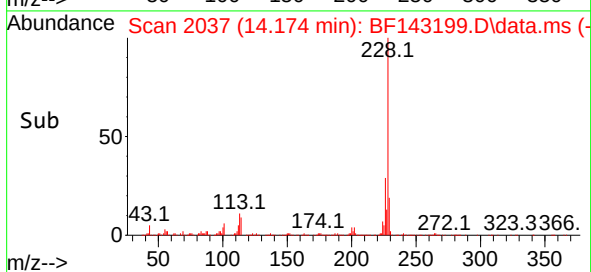
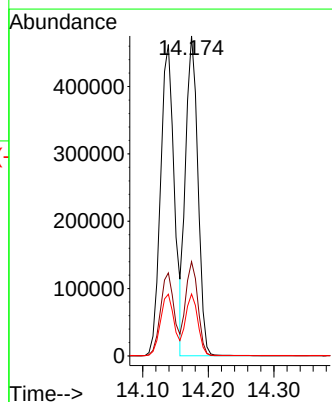
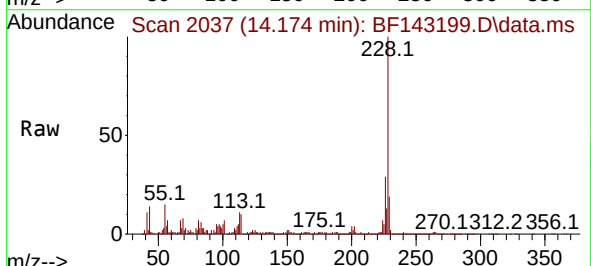
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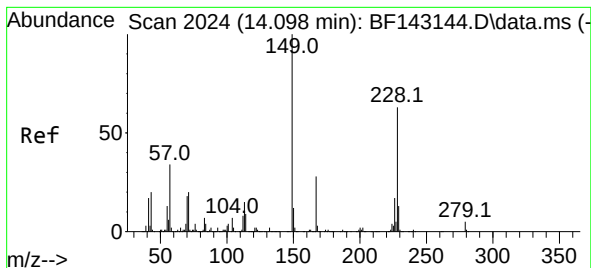
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#83
Chrysene
Concen: 39.784 ng
RT: 14.174 min Scan# 2037
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

Tgt Ion:228 Resp: 615094
Ion Ratio Lower Upper
228 100
226 29.5 23.8 35.8
229 19.3 15.6 23.4





#84

Bis(2-ethylhexyl)phthalate

Concen: 43.966 ng

RT: 14.121 min Scan# 20

Delta R.T. 0.023 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:149 Resp: 446694

Ion Ratio Lower Upper

149 100

167 28.1 22.3 33.5

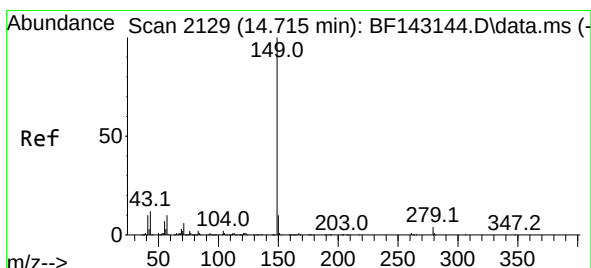
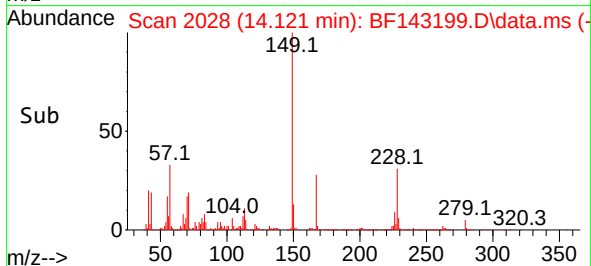
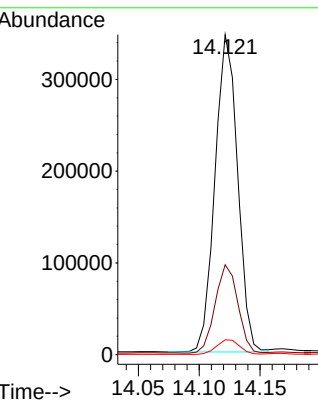
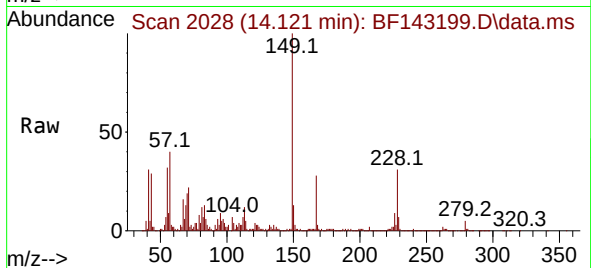
279 4.6 3.6 5.4

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#85

Di-n-octyl phthalate

Concen: 40.493 ng

RT: 14.727 min Scan# 2131

Delta R.T. 0.012 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

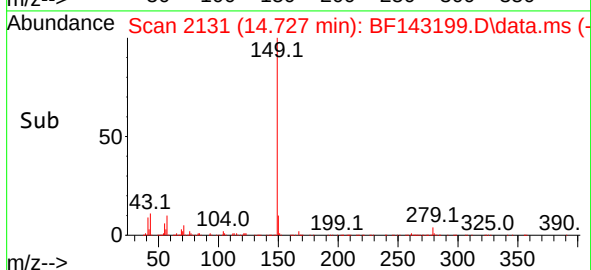
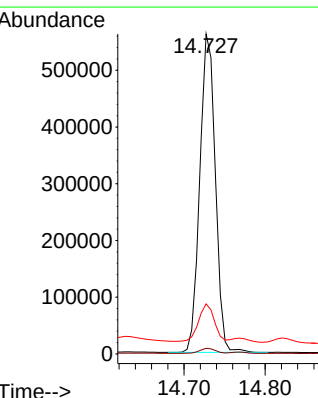
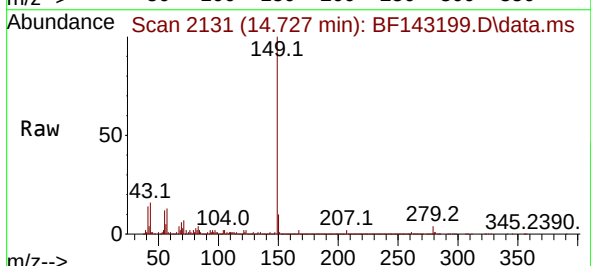
Tgt Ion:149 Resp: 745738

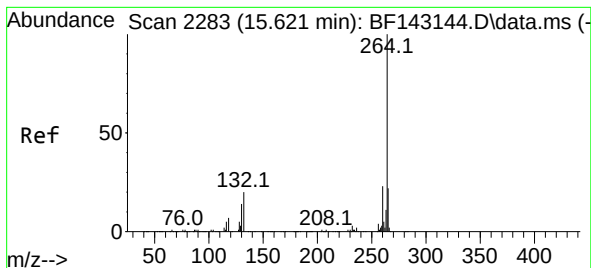
Ion Ratio Lower Upper

149 100

167 1.6 1.1 1.7

43 12.7 9.7 14.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.651 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

Instrument :

BNA_F

ClientSampleId :

FRAC TANKMS

Tgt Ion:264 Resp: 185280

Ion Ratio Lower Upper

264 100

260 23.0 18.5 27.7

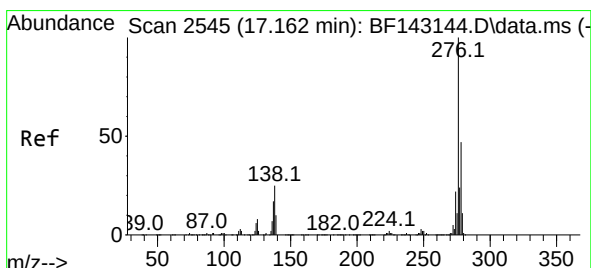
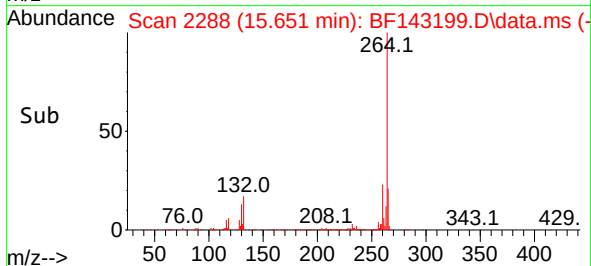
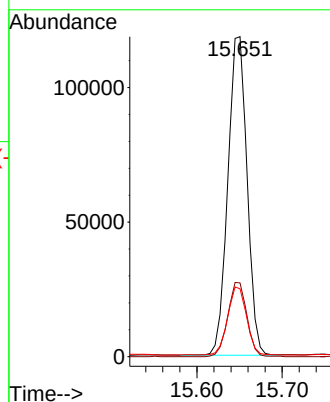
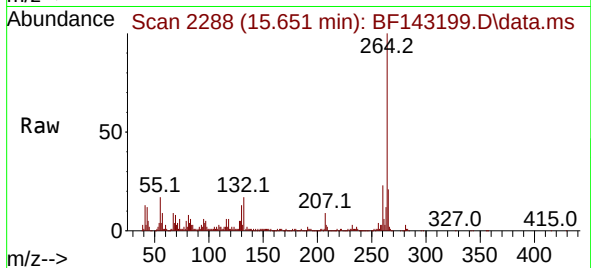
265 21.2 17.4 26.2

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.702 ng

RT: 17.180 min Scan# 2548

Delta R.T. 0.018 min

Lab File: BF143199.D

Acq: 22 Jul 2025 20:20

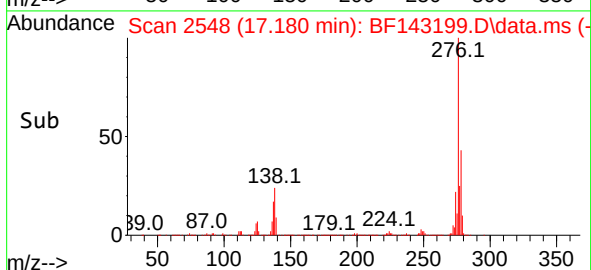
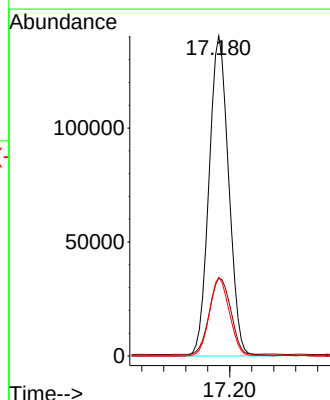
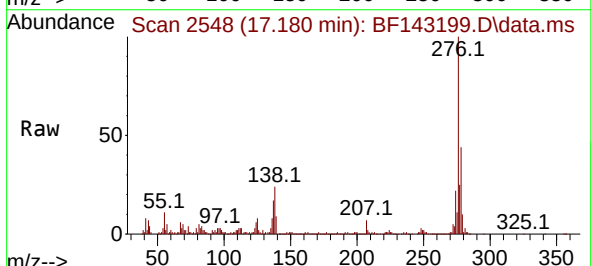
Tgt Ion:276 Resp: 348870

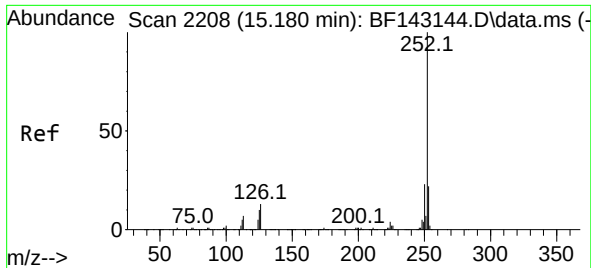
Ion Ratio Lower Upper

276 100

138 25.7 21.8 32.6

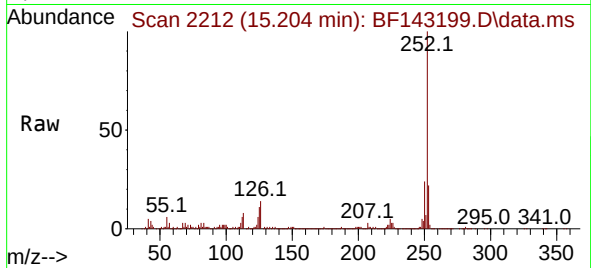
277 24.9 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 49.920 ng
RT: 15.204 min Scan# 2118
Delta R.T. 0.023 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

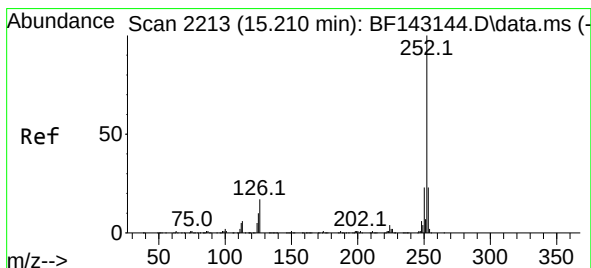
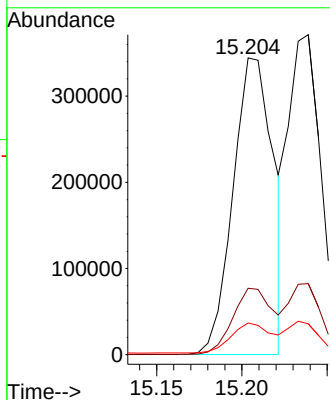
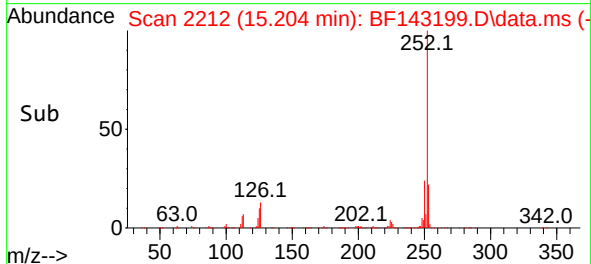
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



Tgt Ion:252 Resp: 56505
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 10.7 8.0 12.0

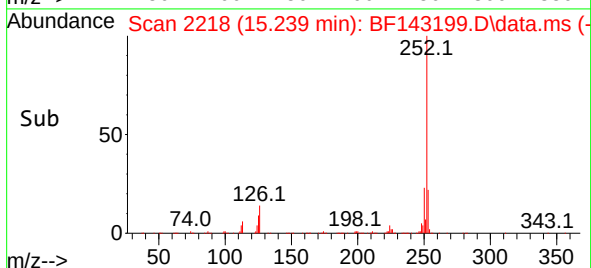
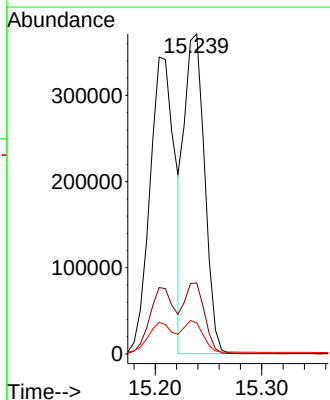
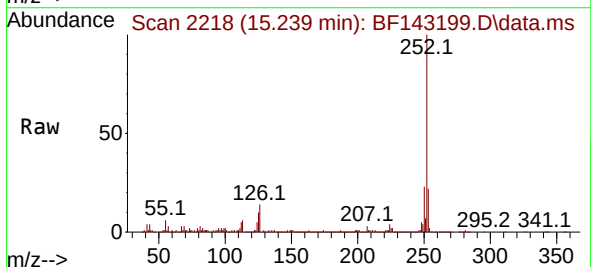
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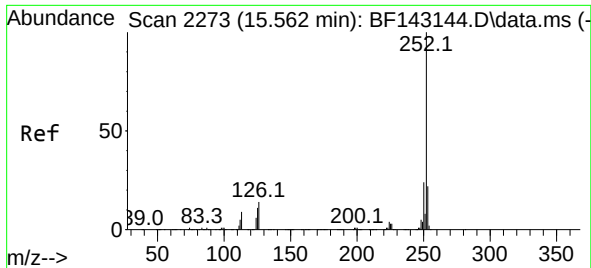
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#89
Benzo(k)fluoranthene
Concen: 48.735 ng
RT: 15.239 min Scan# 2218
Delta R.T. 0.029 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

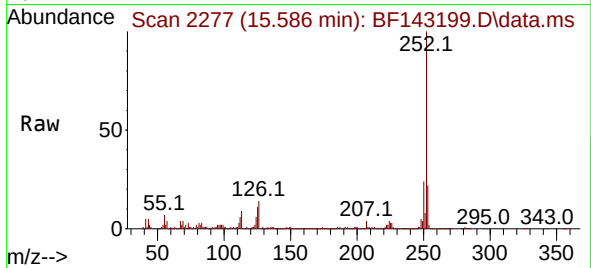
Tgt Ion:252 Resp: 492257
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.6
125 9.6 8.1 12.1





#90
Benzo(a)pyrene
Concen: 41.215 ng
RT: 15.586 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20

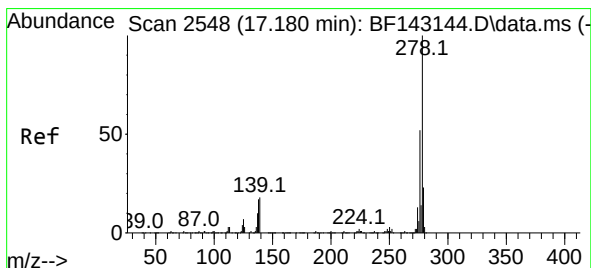
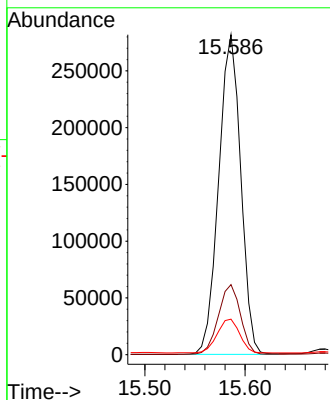
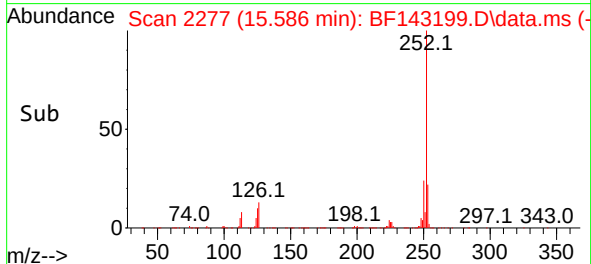
Instrument :
BNA_F
ClientSampleId :
FRAC TANKMS



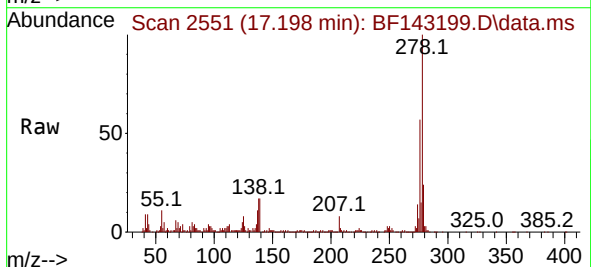
Tgt Ion:252 Resp: 429835
Ion Ratio Lower Upper
252 100
253 21.9 17.3 25.9
125 11.1 8.6 13.0

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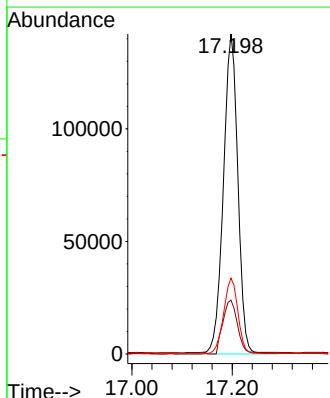
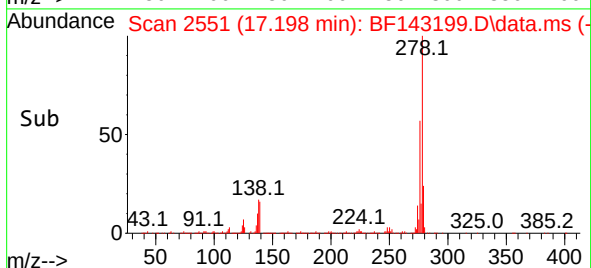
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

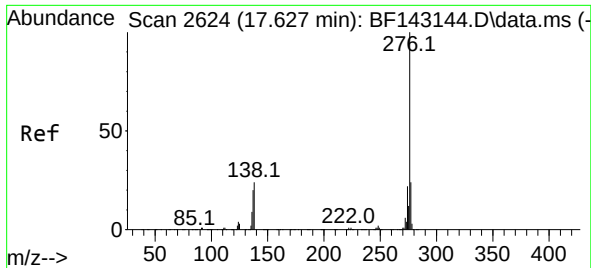


#91
Dibenzo(a,h)anthracene
Concen: 26.854 ng
RT: 17.198 min Scan# 2551
Delta R.T. 0.018 min
Lab File: BF143199.D
Acq: 22 Jul 2025 20:20



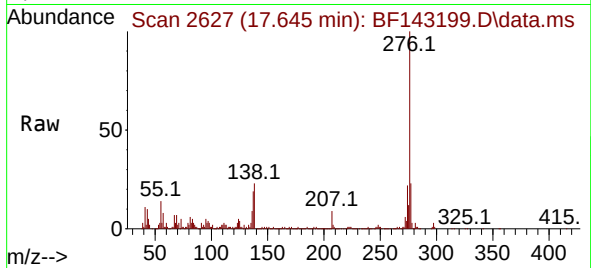
Tgt Ion:278 Resp: 285570
Ion Ratio Lower Upper
278 100
139 16.8 14.1 21.1
279 23.7 18.6 28.0





#92
 Benzo(g,h,i)perylene
 Concen: 26.941 ng
 RT: 17.645 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: BF143199.D
 Acq: 22 Jul 2025 20:20

Instrument :
 BNA_F
 ClientSampleId :
 FRAC TANKMS



Tgt Ion:	276	Resp:	277134
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.1	28.7
138	22.5	18.9	28.3

Manual Integrations
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Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

