

Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
 Data File : BF093245.D
 Acq On : 28 Feb 2017 13:41
 Operator : SJ/MA
 Sample : I1998-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.967	249	252	264	rBV	954135	1438730	26.67%	1.566%
2	5.413	288	291	293	rBV	2840138	3688819	68.38%	4.015%
3	6.464	380	383	385	rBV	3293487	3833992	71.07%	4.173%
4	6.579	391	393	396	rBV	3435608	3293869	61.05%	3.585%
5	6.807	411	413	416	rBV	1064959	893340	16.56%	0.972%
6	6.967	424	427	429	rBV	2748833	2780238	51.53%	3.026%
7	7.379	460	463	465	rBV	2507631	2375064	44.02%	2.585%
8	8.087	523	525	530	rBV	834832	1237295	22.93%	1.347%
9	8.899	594	596	598	rVB	164835	166866	3.09%	0.182%
10	9.173	617	620	622	rBV	2762811	3647264	67.61%	3.970%
11	9.436	640	643	645	rBV	121469	186536	3.46%	0.203%
12	9.505	647	649	650	rBV	265812	267049	4.95%	0.291%
13	9.562	652	654	657	rVB	966839	901228	16.71%	0.981%
14	9.619	657	659	664	rVB	143520	170586	3.16%	0.186%
15	9.699	664	666	669	rBV	193221	265792	4.93%	0.289%
16	9.848	676	679	680	rBV	1015539	1231472	22.83%	1.340%
17	9.870	680	681	683	rVB	409474	439503	8.15%	0.478%
18	10.042	694	696	698	rBV	210360	269322	4.99%	0.293%
19	10.248	712	714	715	rBV	106911	152719	2.83%	0.166%
20	10.385	724	726	729	rVB	571684	655973	12.16%	0.714%
21	10.453	729	732	733	rBV	120314	165348	3.06%	0.180%
22	10.545	739	740	745	rVB	180774	169700	3.15%	0.185%
23	10.636	745	748	750	rBV	1870477	1980032	36.70%	2.155%
24	10.751	756	758	761	rVB2	196651	336933	6.25%	0.367%
25	10.933	771	774	776	rVV3	218439	365869	6.78%	0.398%
26	11.013	778	781	783	rVV2	77890	171188	3.17%	0.186%
27	11.082	783	787	790	rVV4	96137	295844	5.48%	0.322%
28	11.139	790	792	793	rVV	199540	197265	3.66%	0.215%
29	11.185	793	796	798	rVV2	137050	282794	5.24%	0.308%
30	11.219	798	799	802	rVB	392790	416588	7.72%	0.453%
31	11.356	806	811	813	rBV2	4365584	5394924	100.00%	5.872%
32	11.402	813	815	817	rVV	1278886	1258772	23.33%	1.370%
33	11.436	817	818	821	rVV	112487	153454	2.84%	0.167%
34	11.562	827	829	832	rVV	463339	492585	9.13%	0.536%

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35	11.619	832	834	836	rVV	270354	274465	5.09%	0.299%
36	11.665	836	838	840	rVB2	146842	224937	4.17%	0.245%
37	11.745	842	845	847	rVB2	99932	163412	3.03%	0.178%
38	11.825	850	852	854	rVV	696677	896234	16.61%	0.975%
39	11.859	854	855	857	rVB	1095629	802914	14.88%	0.874%
40	11.905	857	859	860	rBV	334326	303738	5.63%	0.331%
41	11.939	860	862	867	rVB2	1436335	1969702	36.51%	2.144%
42	12.031	867	870	872	rBV3	79167	237894	4.41%	0.259%
43	12.122	876	878	880	rVV	539652	549310	10.18%	0.598%
44	12.156	880	881	883	rVB	436611	343725	6.37%	0.374%
45	12.271	888	891	893	rBV2	154218	220140	4.08%	0.240%
46	12.374	898	900	902	rBV	350745	517147	9.59%	0.563%
47	12.419	902	904	907	rVB	260506	441194	8.18%	0.480%
48	12.476	907	909	912	rBV	231295	347891	6.45%	0.379%
49	12.545	912	915	917	rBV	4001640	4945267	91.67%	5.383%
50	12.602	917	920	922	rVB2	142236	249074	4.62%	0.271%
51	12.694	924	928	929	rBV2	250417	342475	6.35%	0.373%
52	12.774	932	935	938	rBV	3624300	4985340	92.41%	5.426%
53	12.819	938	939	941	rVB2	240227	240355	4.46%	0.262%
54	12.911	943	947	951	rVB2	2498483	2880546	53.39%	3.135%
55	12.991	951	954	956	rBV2	364820	625683	11.60%	0.681%
56	13.094	960	963	965	rVB	636733	1132883	21.00%	1.233%
57	13.162	967	969	971	rVV	642511	543358	10.07%	0.591%
58	13.197	971	972	976	rVB2	391967	555645	10.30%	0.605%
59	13.288	979	980	982	rBV	175074	234573	4.35%	0.255%
60	13.322	982	983	987	rVB	309680	337631	6.26%	0.367%
61	13.517	992	1000	1004	rBV4	136346	454201	8.42%	0.494%
62	13.585	1004	1006	1007	rBV2	96794	163435	3.03%	0.178%
63	13.608	1007	1008	1012	rVB	310483	295997	5.49%	0.322%
64	13.711	1015	1017	1019	rBV	342264	620322	11.50%	0.675%
65	13.745	1019	1020	1021	rVV	297561	228564	4.24%	0.249%
66	13.768	1021	1022	1025	rVV2	330015	468286	8.68%	0.510%
67	13.814	1025	1026	1030	rVB2	348956	456609	8.46%	0.497%
68	13.882	1030	1032	1035	rVB	123507	162342	3.01%	0.177%
69	13.962	1035	1039	1041	rBV	2314265	4030841	74.72%	4.387%
70	13.997	1041	1042	1046	rVB	2247982	1824991	33.83%	1.986%
71	14.077	1046	1049	1050	rBV2	411381	490587	9.09%	0.534%

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72	14.122	1050	1053	1055	rVV3	111679	232475	4.31%	0.253%
73	14.168	1055	1057	1058	rVV	113422	214615	3.98%	0.234%
74	14.202	1058	1060	1061	rVB	169344	200302	3.71%	0.218%
75	14.317	1068	1070	1071	rVV	170254	184457	3.42%	0.201%
76	14.351	1071	1073	1075	rVV	421539	590721	10.95%	0.643%
77	14.385	1075	1076	1078	rVV	265842	295103	5.47%	0.321%
78	14.454	1078	1082	1083	rVV4	221666	497090	9.21%	0.541%
79	14.477	1083	1084	1088	rVV2	335177	652278	12.09%	0.710%
80	14.545	1088	1090	1093	rVB3	153845	240720	4.46%	0.262%
81	14.682	1098	1102	1105	rBV5	117374	327715	6.07%	0.357%
82	14.797	1110	1112	1114	rVB	146794	152953	2.84%	0.166%
83	14.831	1114	1115	1119	rBV	154030	237792	4.41%	0.259%
84	14.991	1126	1129	1136	rBV	1743762	3897588	72.25%	4.242%
85	15.094	1136	1138	1140	rVV	386706	417131	7.73%	0.454%
86	15.185	1143	1146	1147	rBV2	99019	223016	4.13%	0.243%
87	15.277	1151	1154	1157	rVB	1108216	1446527	26.81%	1.574%
88	15.334	1157	1159	1162	rBV	1371882	2143742	39.74%	2.333%
89	15.391	1162	1164	1166	rVV	639905	1007643	18.68%	1.097%
90	15.425	1166	1167	1170	rVB	533299	532302	9.87%	0.579%
91	15.803	1197	1200	1202	rBV2	74456	138354	2.56%	0.151%
92	15.917	1208	1210	1213	rVB	131957	189682	3.52%	0.206%
93	16.591	1267	1269	1271	rBV2	76637	146201	2.71%	0.159%
94	16.785	1282	1286	1290	rBV	846035	1631173	30.24%	1.775%
95	16.945	1296	1300	1302	rBV	160041	360919	6.69%	0.393%
96	17.003	1302	1305	1308	rVB2	116893	249760	4.63%	0.272%
97	17.208	1319	1323	1328	rVB	613029	1268021	23.50%	1.380%
98	17.426	1339	1342	1350	rVB2	194748	552240	10.24%	0.601%
99	19.323	1504	1508	1514	rVB	136328	461050	8.55%	0.502%
100	19.517	1520	1525	1527	rBV2	77031	244695	4.54%	0.266%

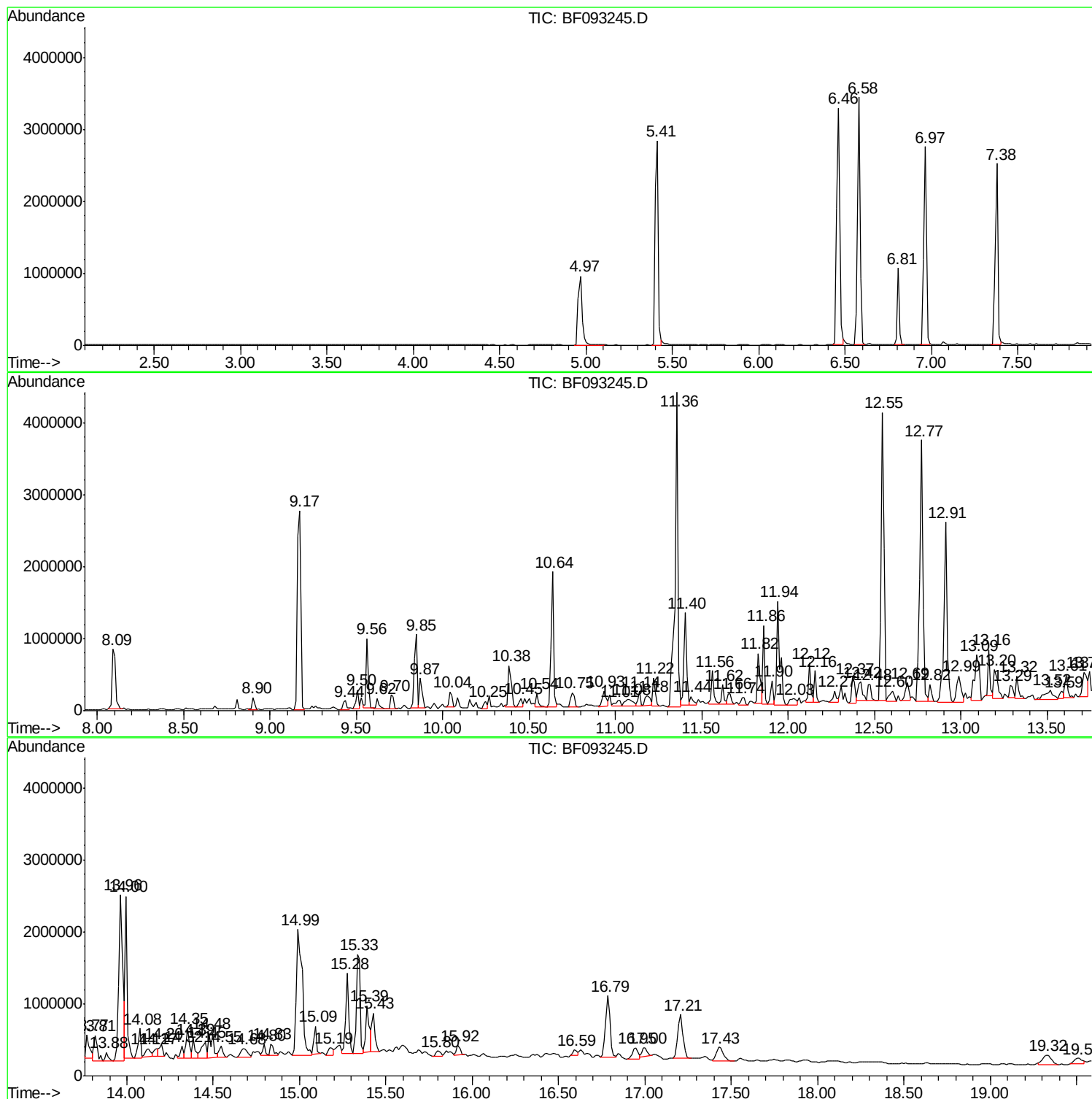
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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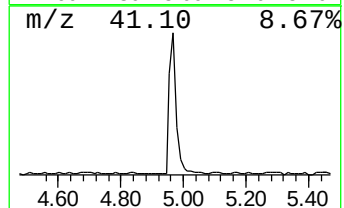
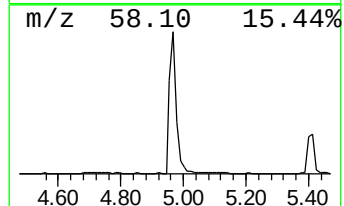
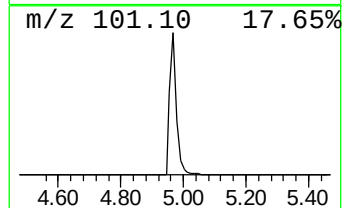
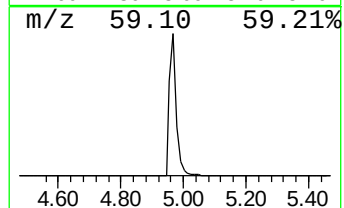
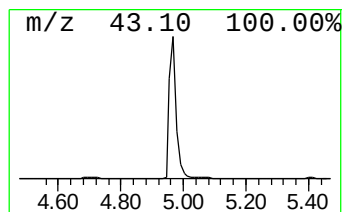
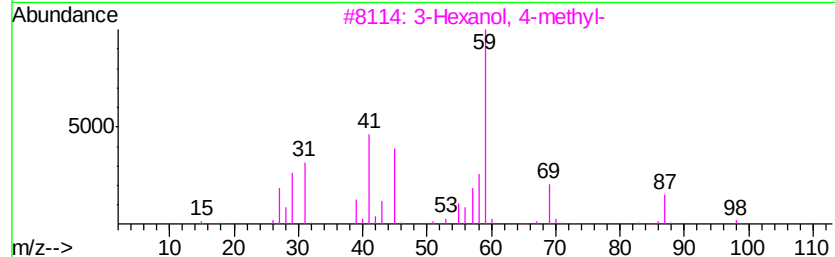
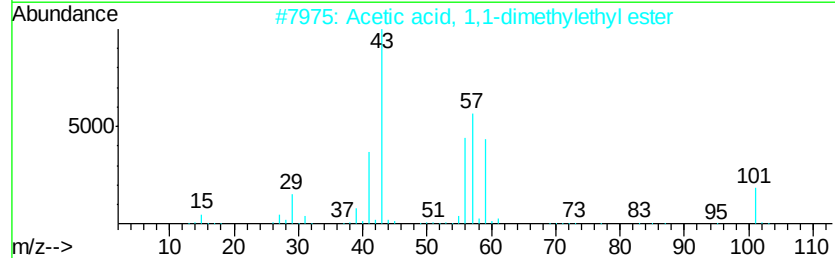
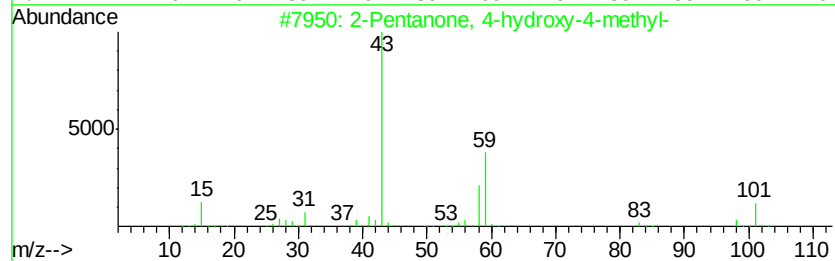
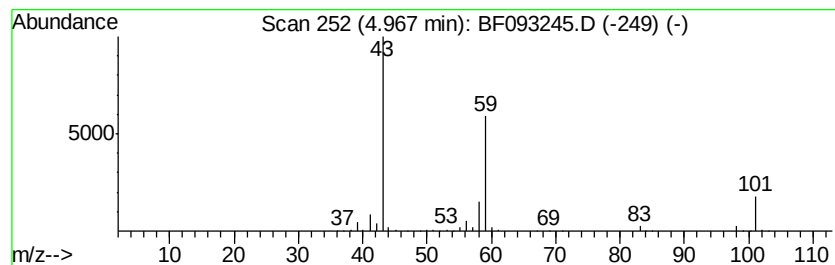
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.97	32.21 ng	1438730	1,4-Dichlorobenzene-d4	6.81

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2		Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3		3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



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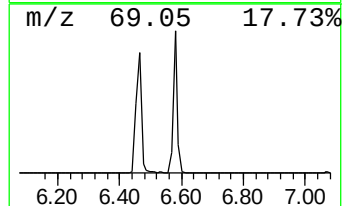
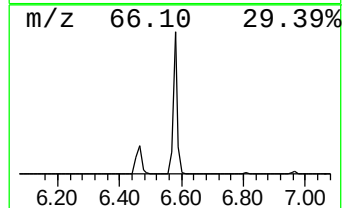
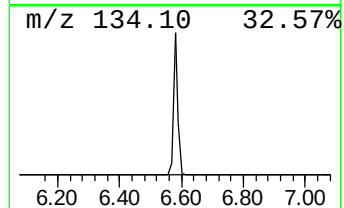
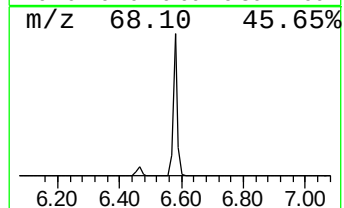
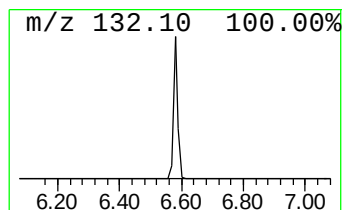
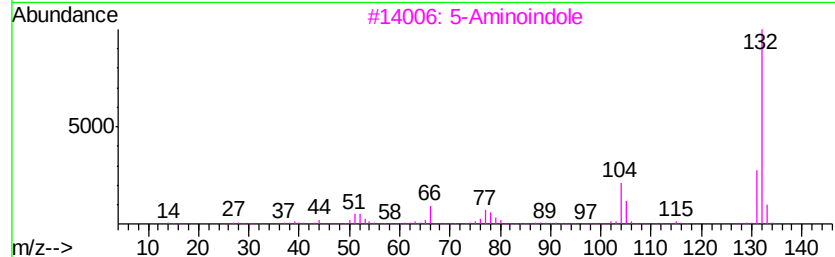
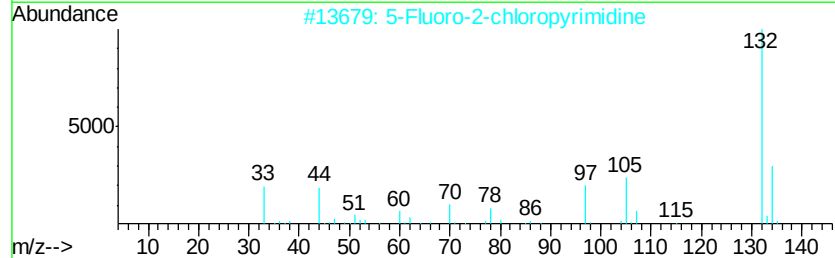
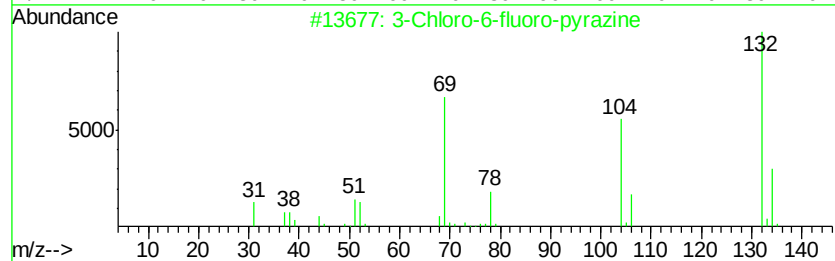
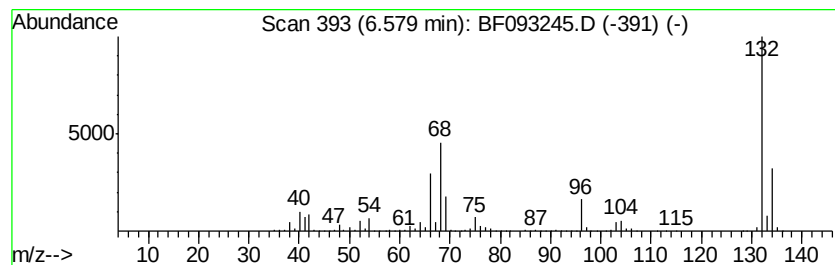
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.58 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.58	73.74 ng	3293870	1,4-Dichlorobenzene-d4	6.81

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5		Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9



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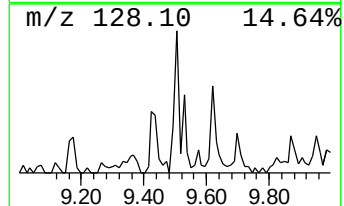
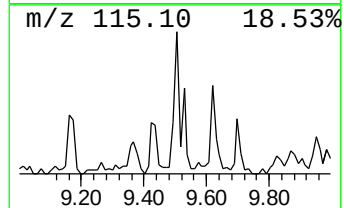
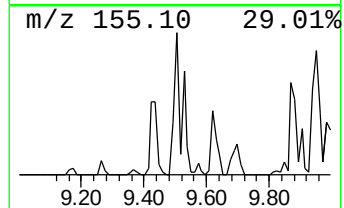
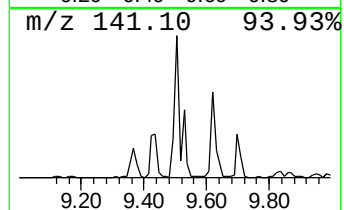
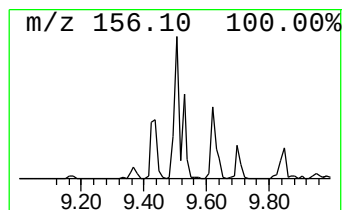
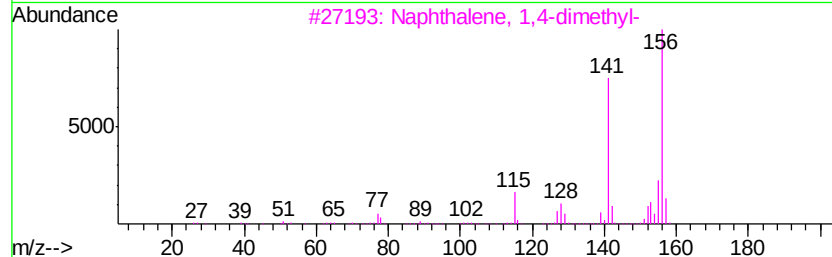
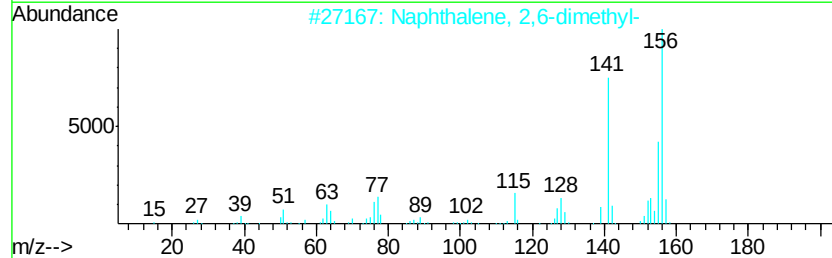
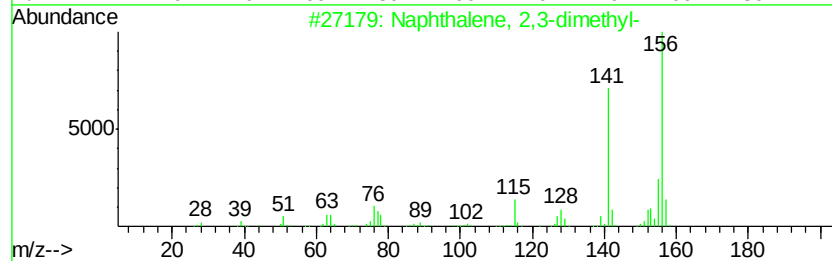
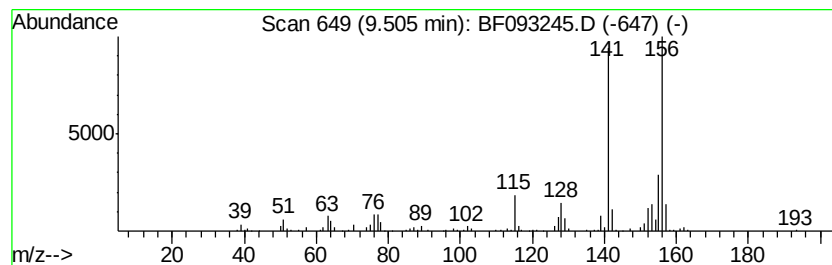
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Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	4.34 ng	267049	Acenaphthene-d10	9.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
2		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
3		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 97
4		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 97
5		Naphthalene, 1,2-dimethyl-	156 C12H12	000573-98-8 96



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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Acq On : 28 Feb 2017 13:41
Operator : SJ/MA
Sample : I1998-04
Misc :
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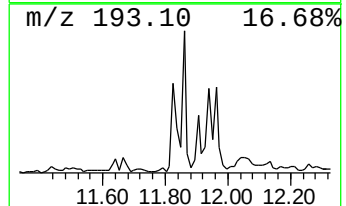
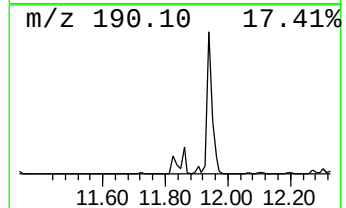
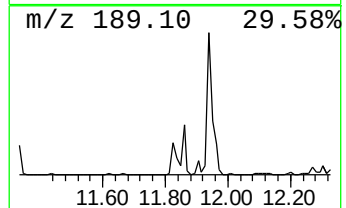
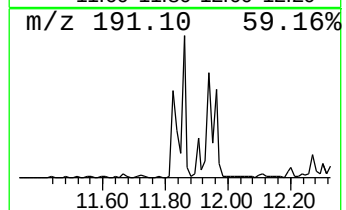
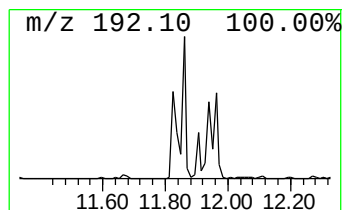
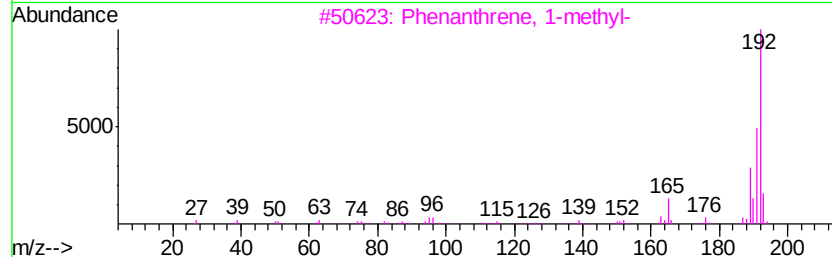
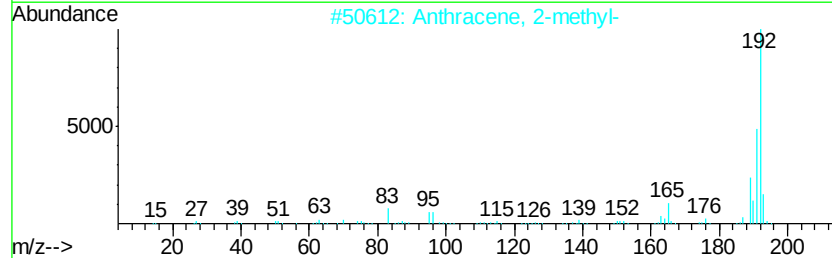
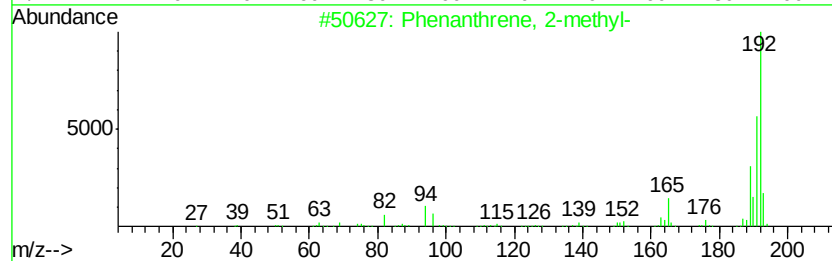
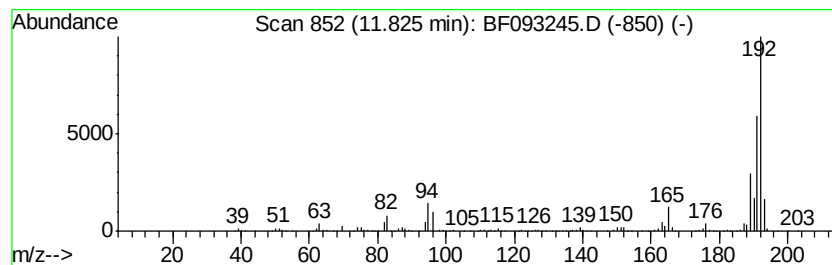
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.83	3.32 ng	896234	Phenanthrene-d10	11.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
Data File : BF093245.D
Acq On : 28 Feb 2017 13:41
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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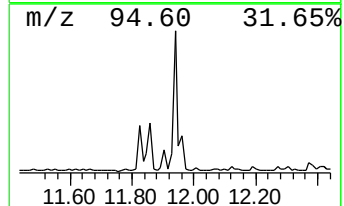
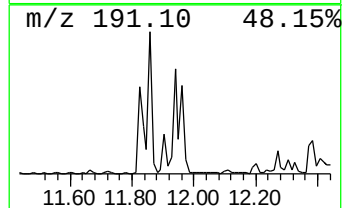
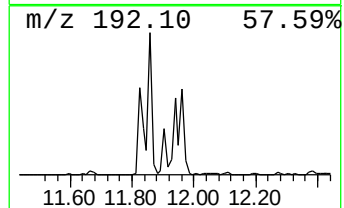
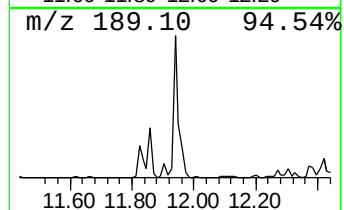
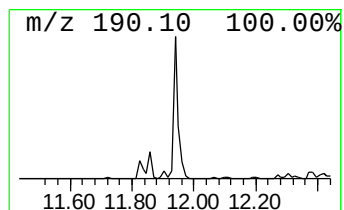
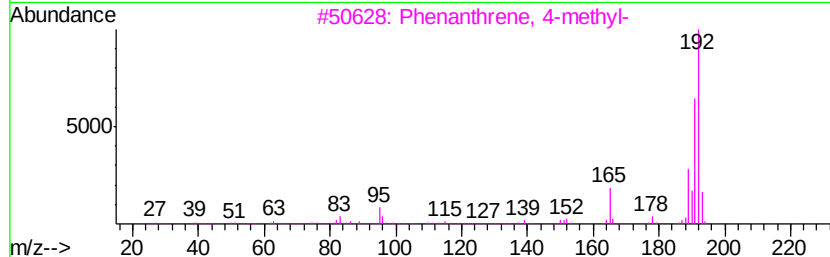
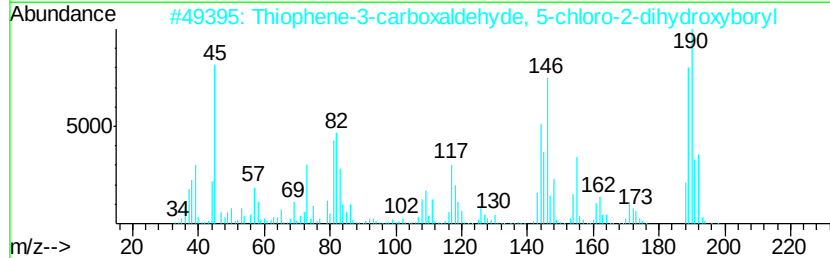
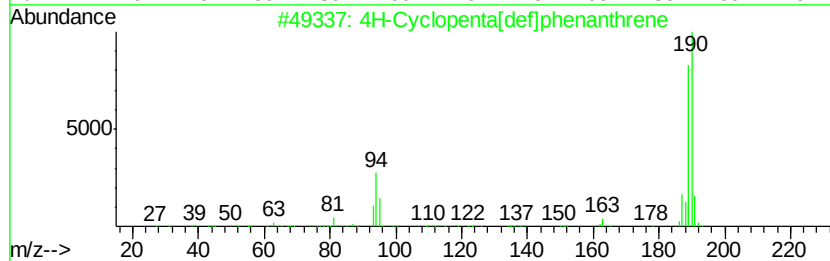
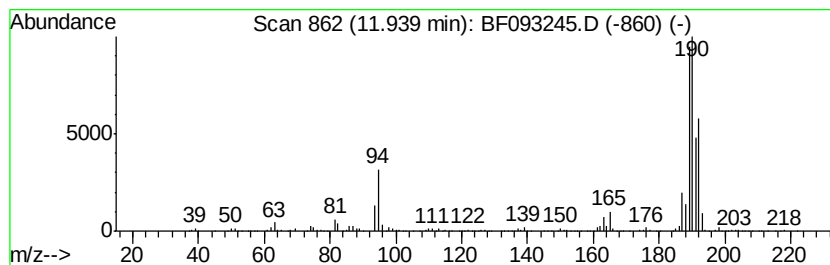
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	7.30 ng	1969700	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	47
3		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	20
4		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	20
5		Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	14



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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Acq On : 28 Feb 2017 13:41
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Sample : I1998-04
Misc :
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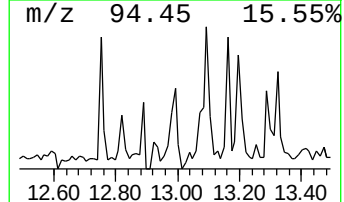
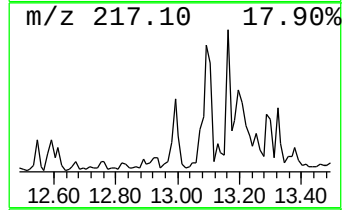
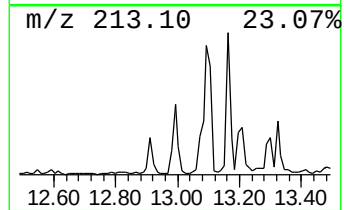
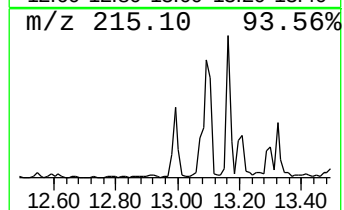
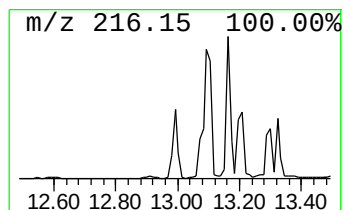
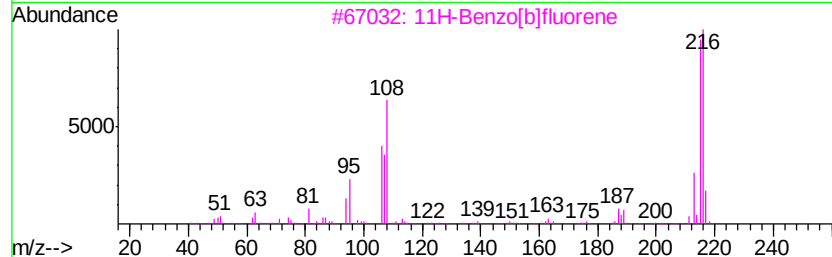
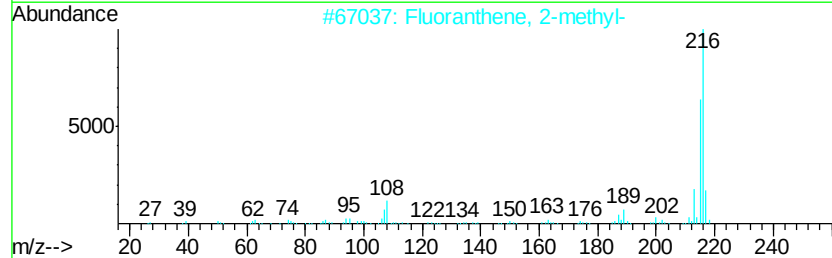
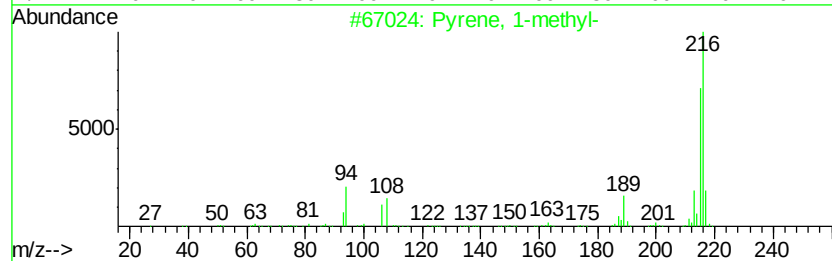
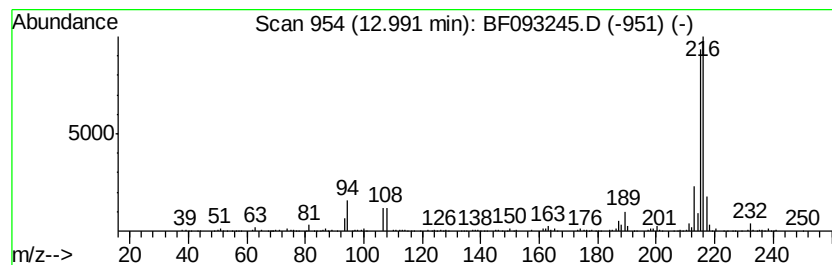
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	3.10 ng	625683	Chrysene-d12	13.97
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Pyrene, 1-methyl-	216 C17H12	002381-21-7 95
2		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 92
3		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 91
4		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 87
5		Pyrene, 2-methyl-	216 C17H12	003442-78-2 86



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
Data File : BF093245.D
Acq On : 28 Feb 2017 13:41
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Sample : I1998-04
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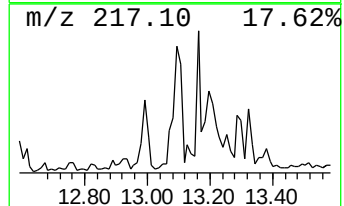
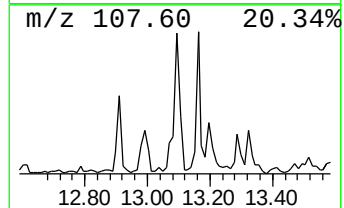
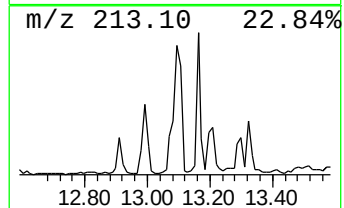
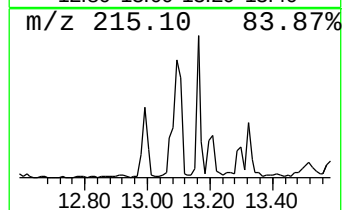
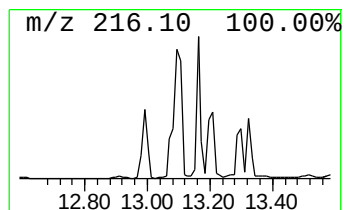
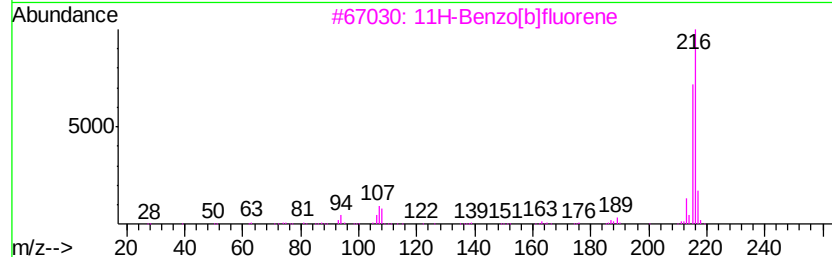
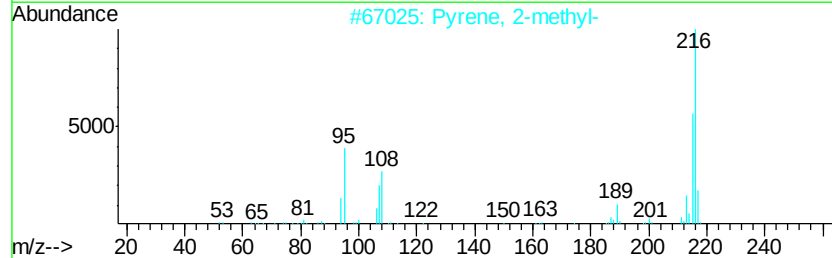
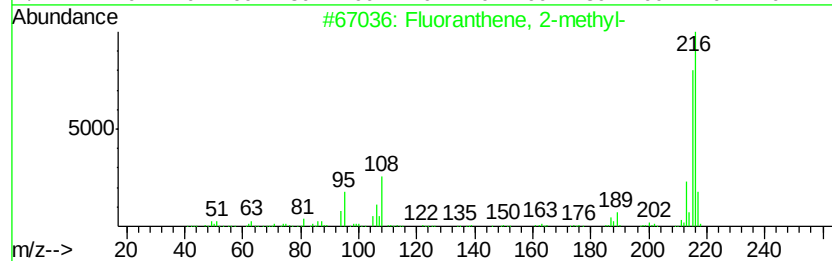
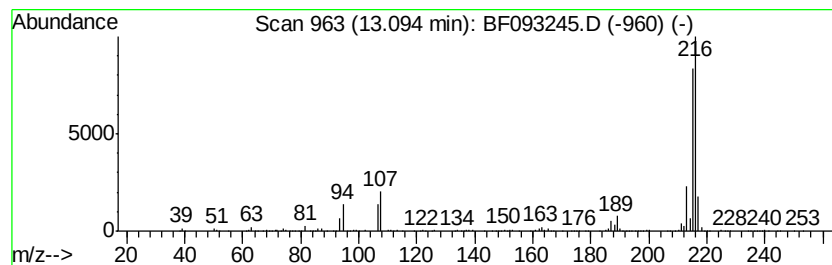
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Fluoranthene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD		R.T.
13.09	5.62 ng	1132880	Chrysene-d12		13.97
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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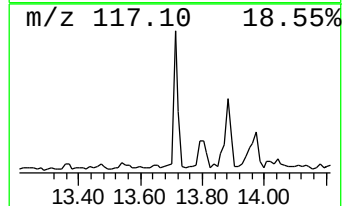
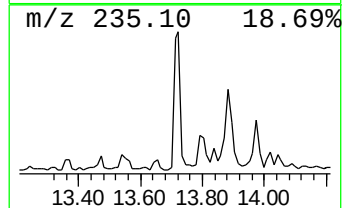
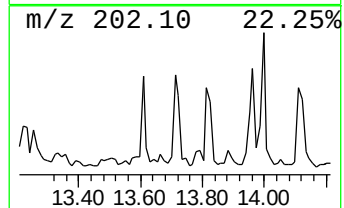
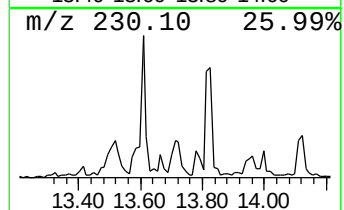
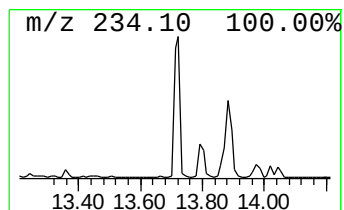
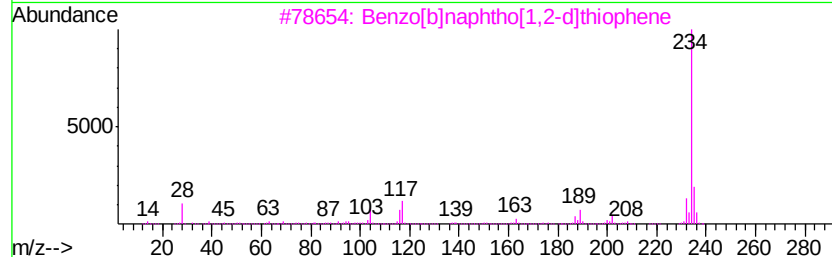
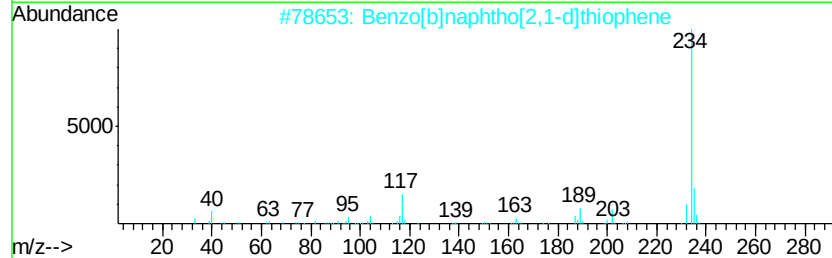
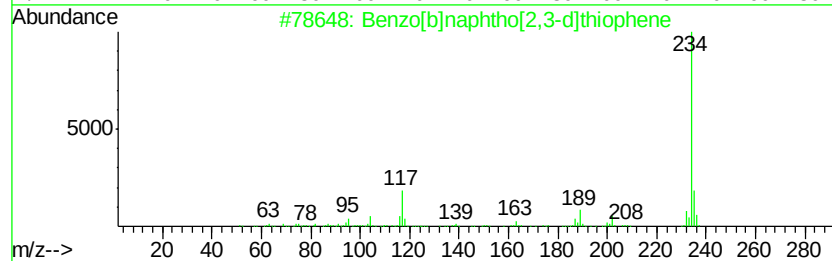
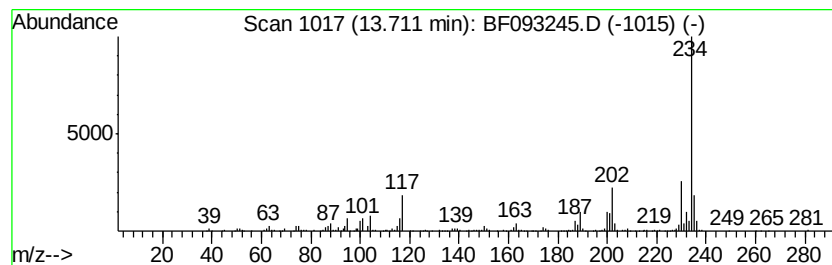
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.		
13.71	3.08 ng	620322	Chrysene-d12		13.97		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
2			Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
3			Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	92
4			Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	43
5			Anthra[1,9a,9-cd;5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	38



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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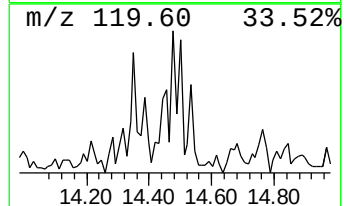
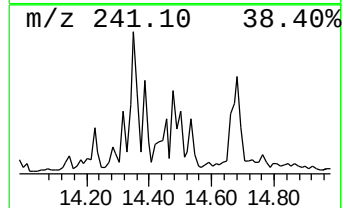
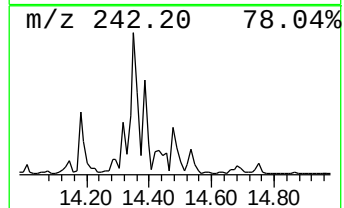
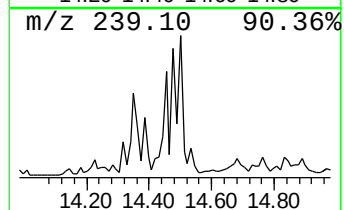
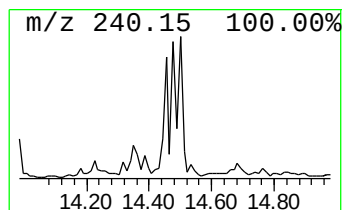
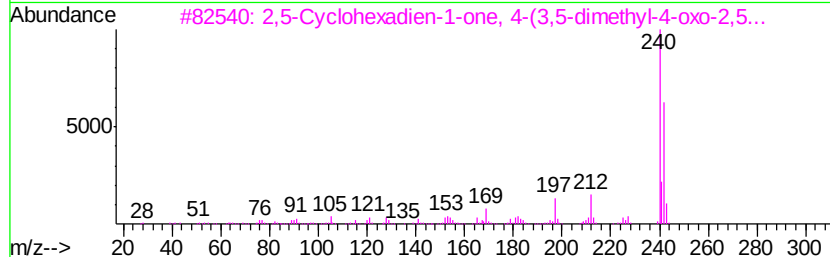
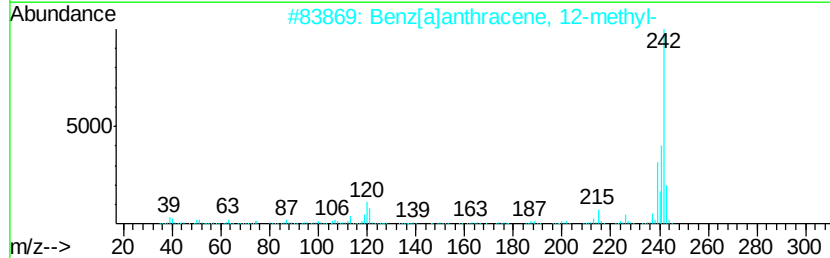
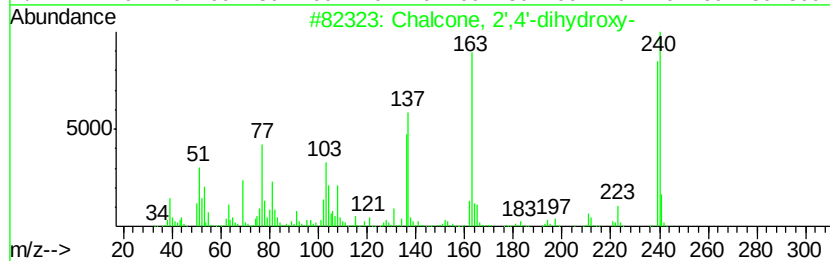
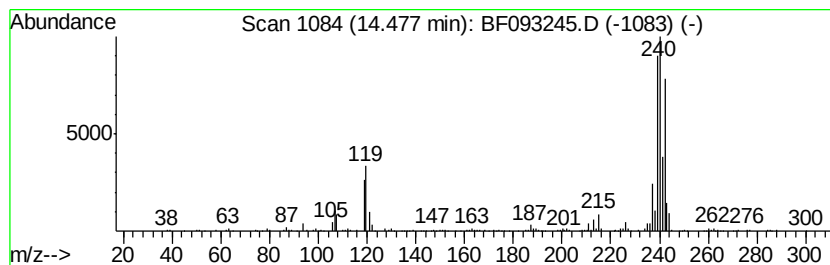
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 unknown14.48 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	3.24 ng	652278	Chrysene-d12	13.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Chalcone, 2',4'-dihydroxy-	240	C15H12O3	001776-30-3	38
2		Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	38
3		2,5-Cyclohexadien-1-one, 4-(3,5-...	240	C16H16O2	004906-22-3	38
4		Chrysene, 6-methyl-	242	C19H14	003697-24-3	35
5		5-Benzyl-acenaphthylene	242	C19H14	004624-38-8	30



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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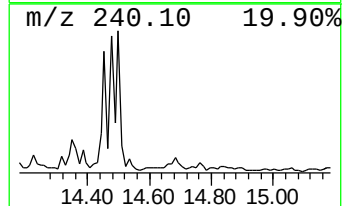
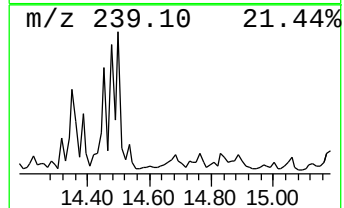
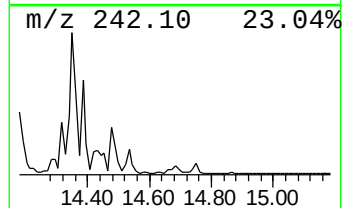
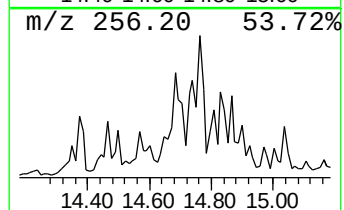
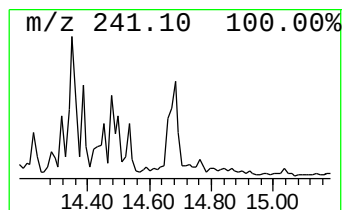
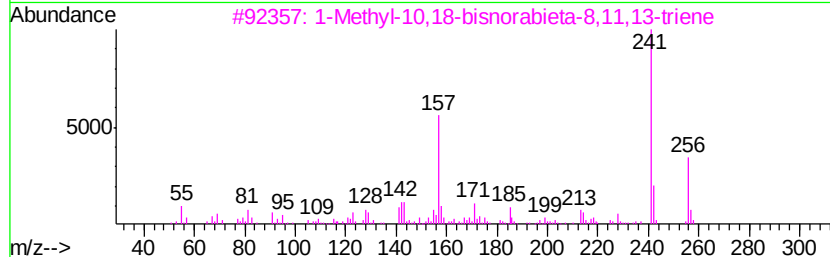
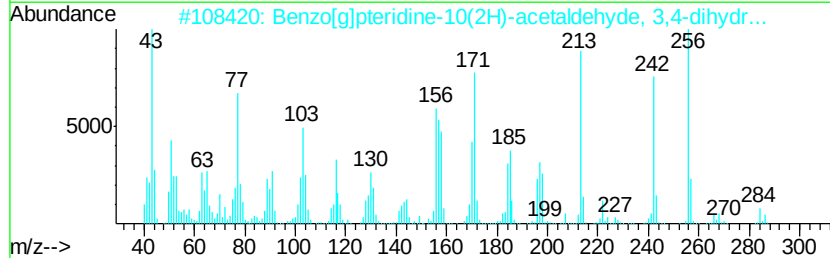
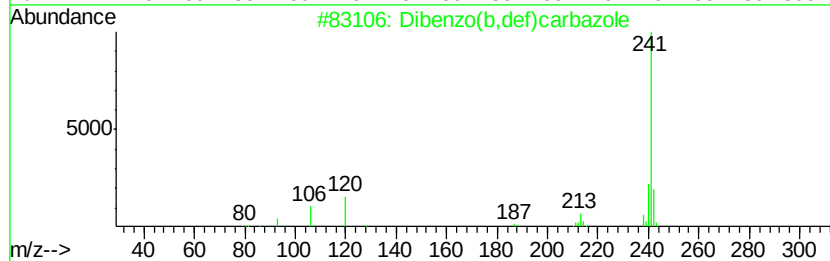
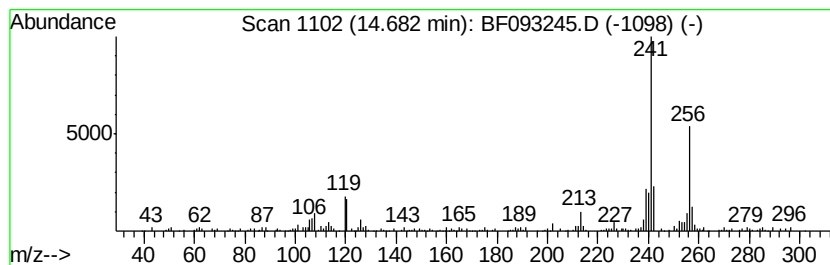
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Dibenzo(b,def)carbazole Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.		
14.68	6.50 ng	327715	Perylene-d12	15.39		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzo(b,def)carbazole	241	C18H11N	104313-09-9	90
2		Benzo[g]pteridine-10(2H)-acetal...	284	C14H12N4O3	004250-90-2	64
3		1-Methyl-10,18-bisnorabieta-8,11...	256	C19H28	1000293-16-9	62
4		Chrysene, 5-ethyl-	256	C20H16	054986-62-8	53
5		1,1,3,3-Tetramethyl-1,3-disilaph...	256	C15H20Si2	032538-51-5	53



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Data File : BF093245.D
Acq On : 28 Feb 2017 13:41
Operator : SJ/MA
Sample : I1998-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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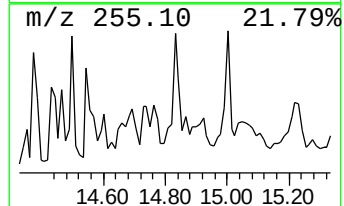
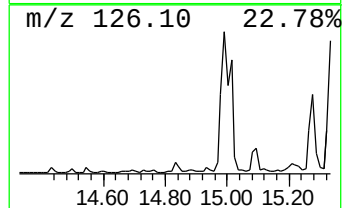
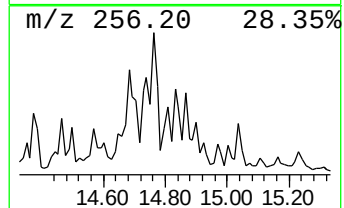
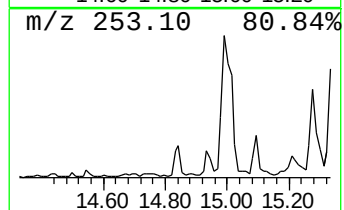
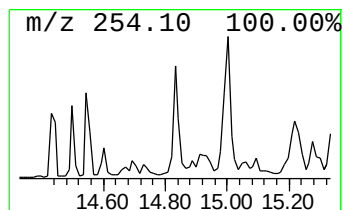
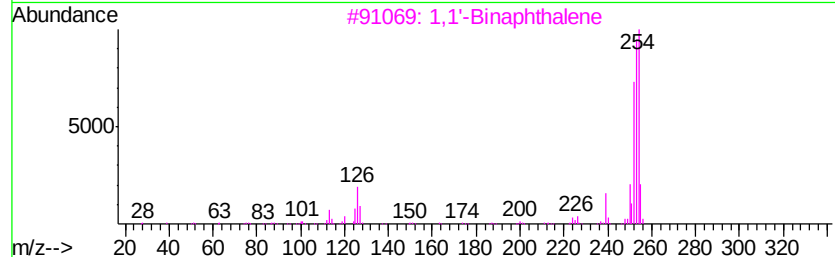
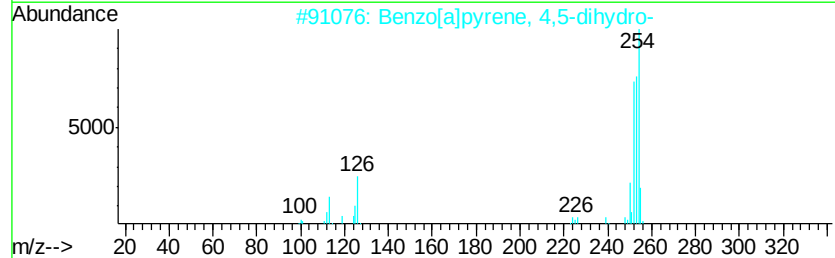
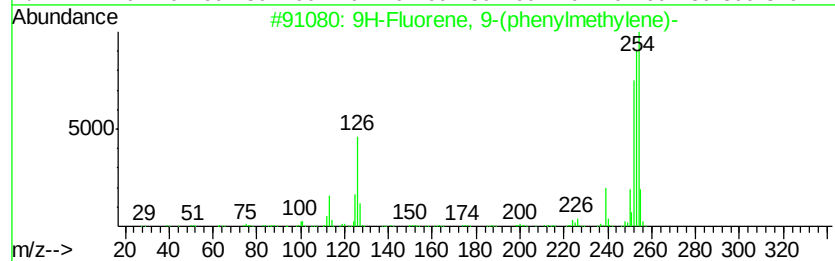
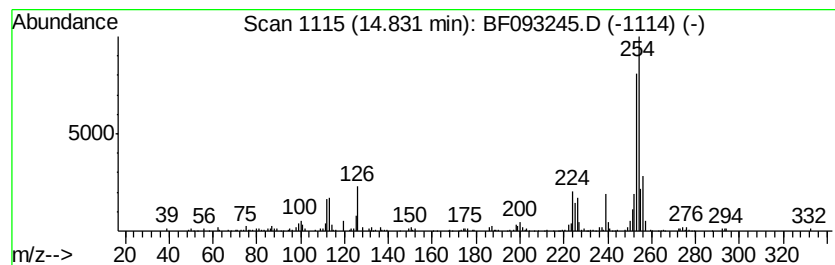
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 9H-Fluorene, 9-(phenylmethy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	4.72 ng	237792	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	86
2		Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	76
3		1,1'-Binaphthalene	254	C20H14	000604-53-5	70
4		1,2'-Binaphthalene	254	C20H14	004325-74-0	62
5		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62



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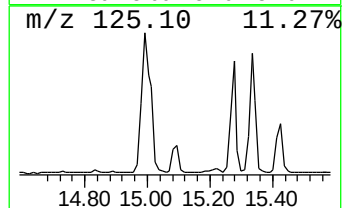
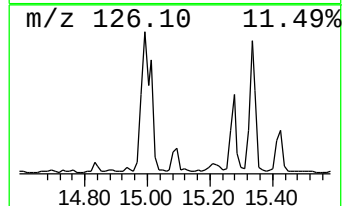
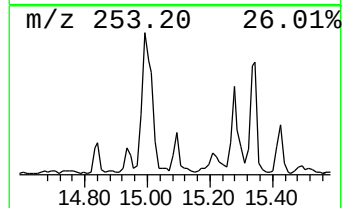
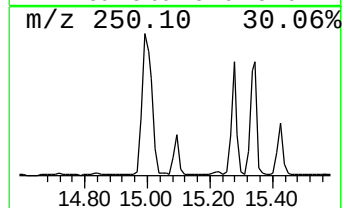
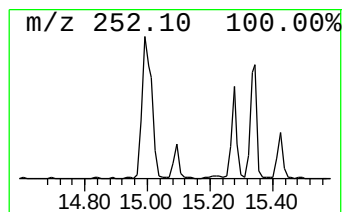
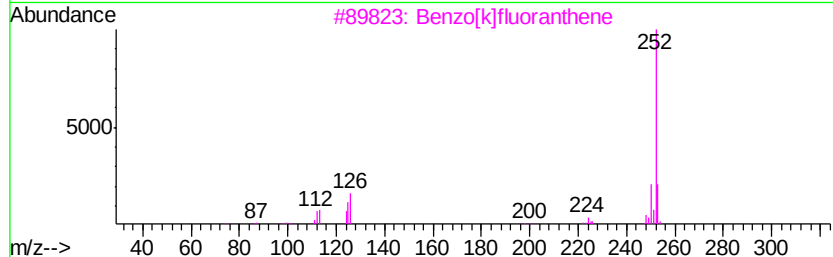
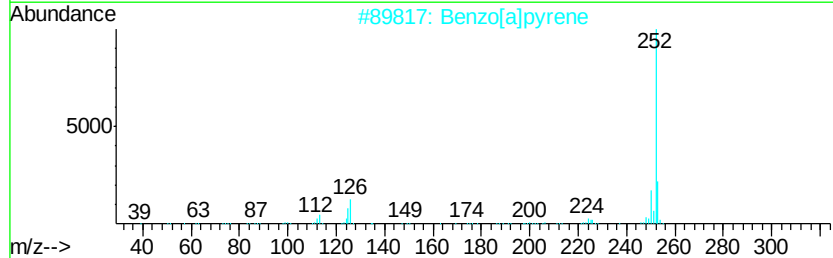
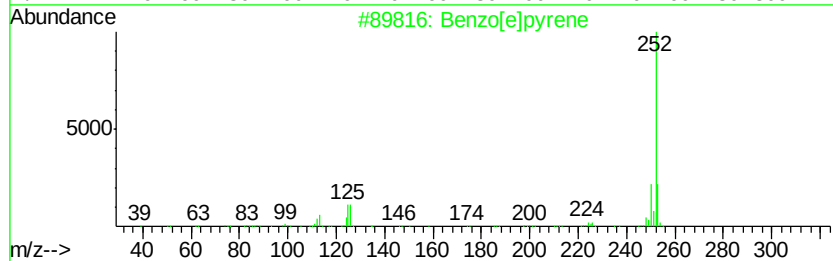
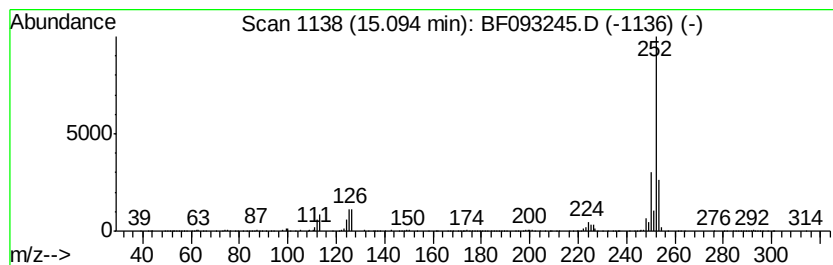
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.09	8.28 ng	417131	Perylene-d12	15.39
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Benzo[e]pyrene	252 C20H12	000192-97-2	98
2	Benzo[a]pyrene	252 C20H12	000050-32-8	96
3	Benzo[k]fluoranthene	252 C20H12	000207-08-9	94
4	Benz[e]acephenanthrylene	252 C20H12	000205-99-2	94
5	Perylene	252 C20H12	000198-55-0	81



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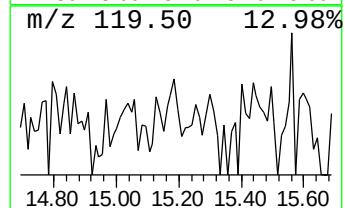
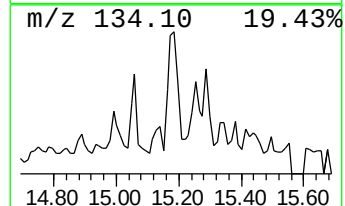
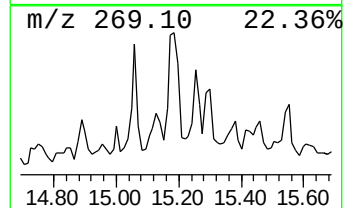
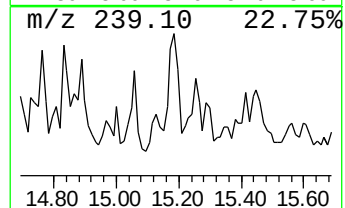
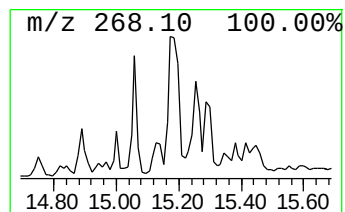
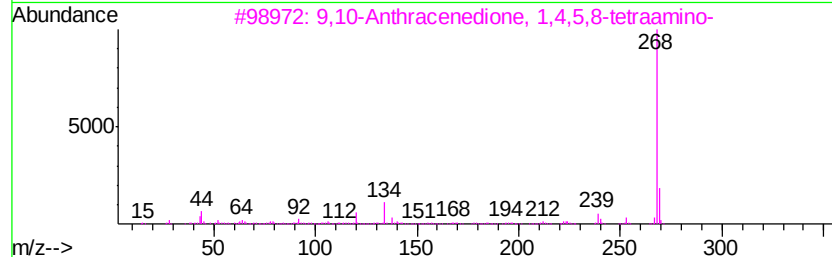
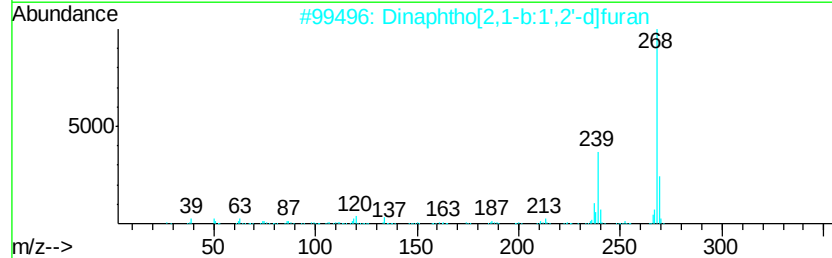
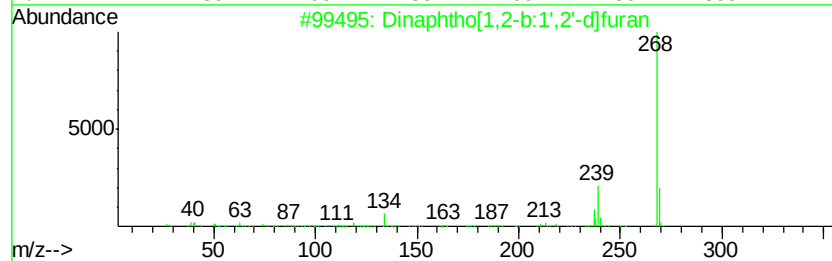
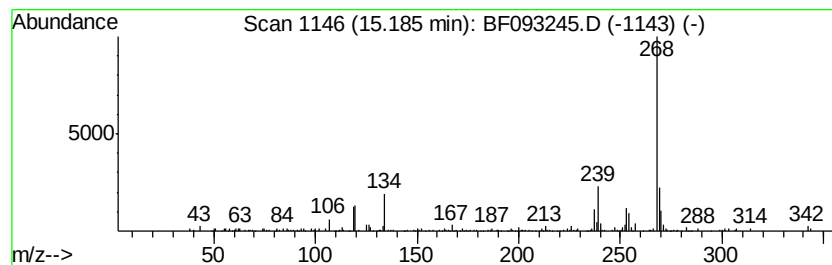
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	4.43 ng	223016	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	92
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	70
3		9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	53
4		trans-4'-Methyl-4-(methylthio)ch...	268	C17H16OS	126443-27-4	52
5		trans-3'-Methyl-4-(methylthio)ch...	268	C17H16OS	131316-14-8	52



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
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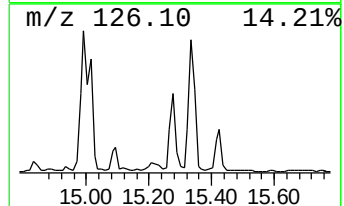
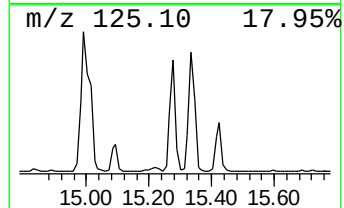
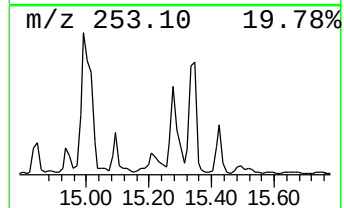
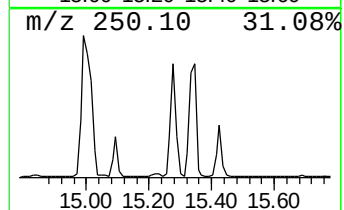
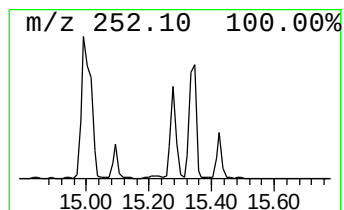
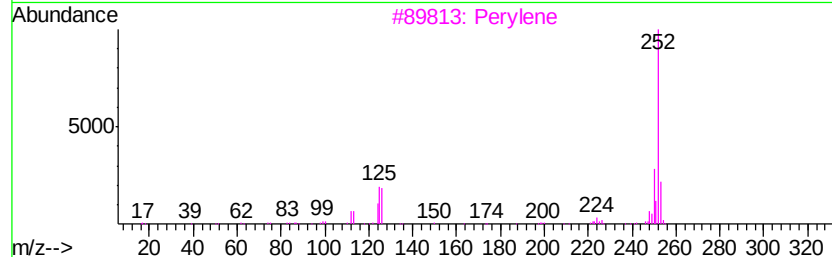
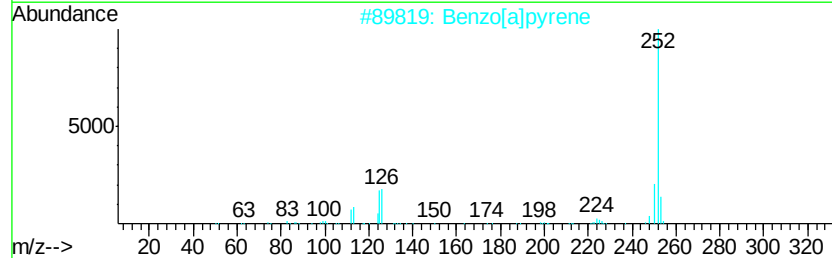
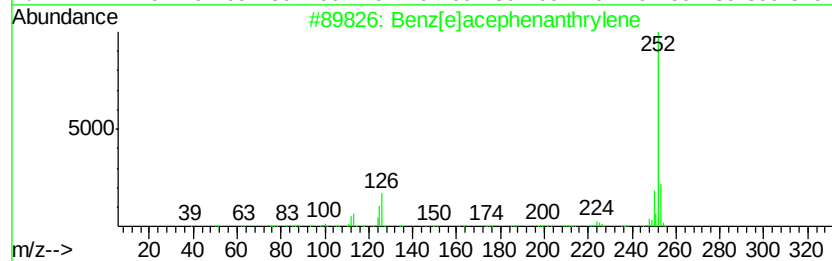
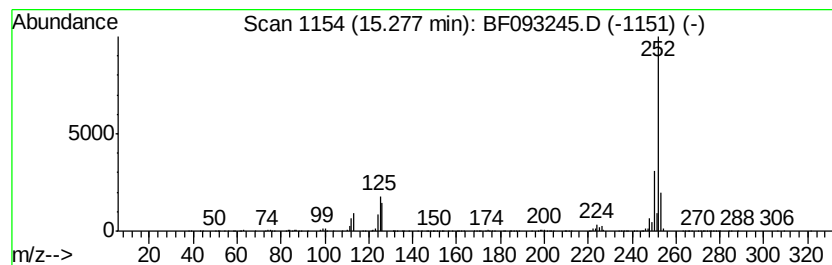
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Benz[e]acephenanthrylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.28	28.71 ng	1446530	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
2		Benzo[a]pyrene	252	C20H12	000050-32-8	95
3		Perylene	252	C20H12	000198-55-0	95
4		Benzo[e]pyrene	252	C20H12	000192-97-2	94
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	93



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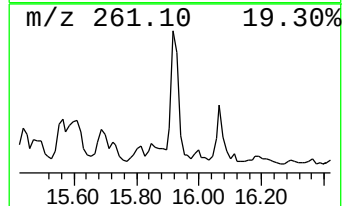
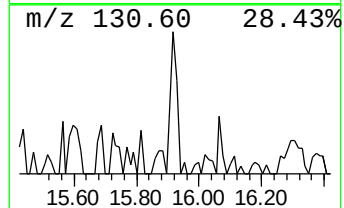
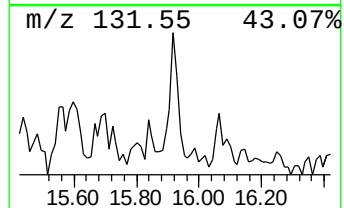
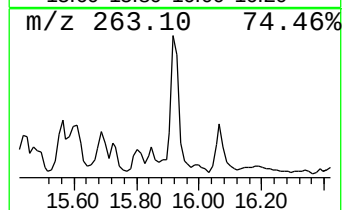
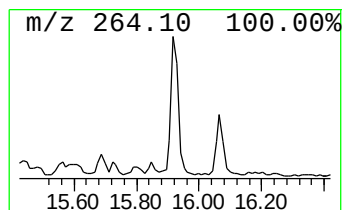
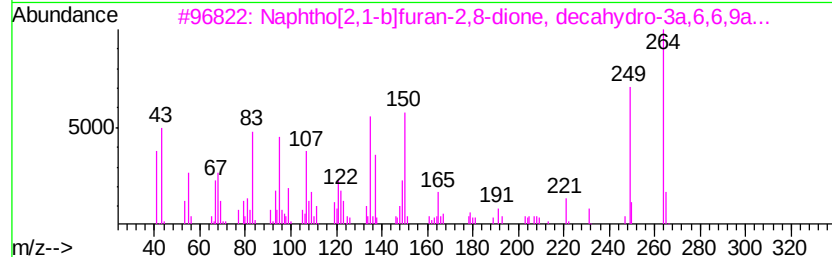
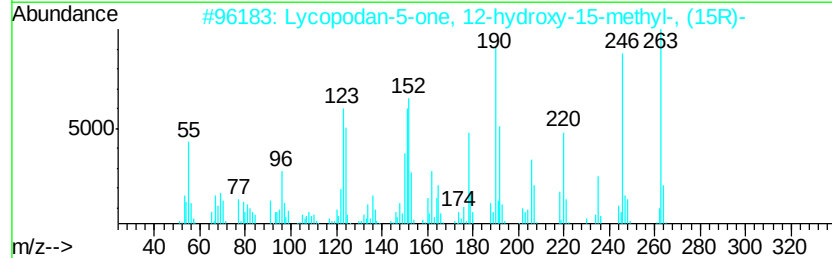
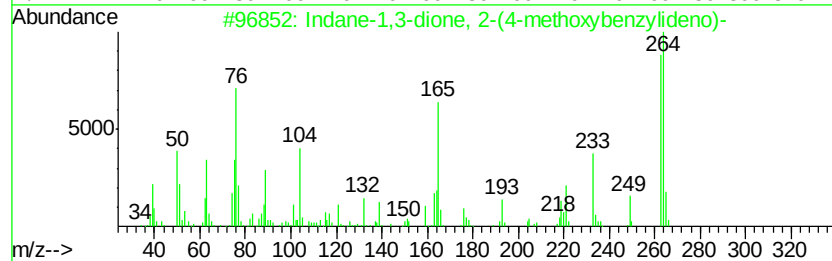
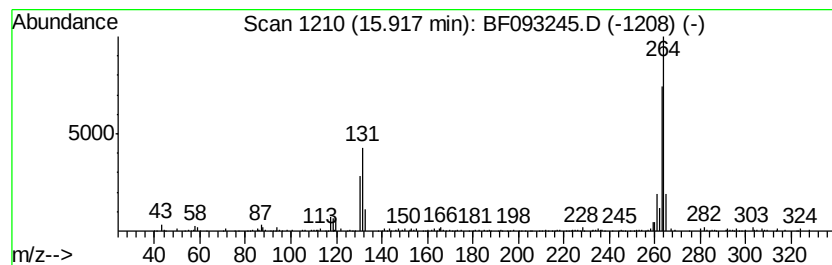
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 unknown15.92 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	3.76 ng	189682	Perylene-d12	15.39

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane-1,3-dione, 2-(4-methoxybe...	264	C17H12O3	007421-76-3	47
2			Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	25
3			Naphtho[2,1-b]furan-2,8-dione, d...	264	C16H24O3	029065-00-7	22
4			5,12-Dioxa-chrysene-6,11-dione	264	C16H8O4	002288-98-4	22
5			Pentan-2-one, 4-(2-fluorenylimino)-	263	C18H17NO	050651-58-6	22



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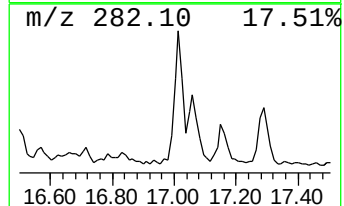
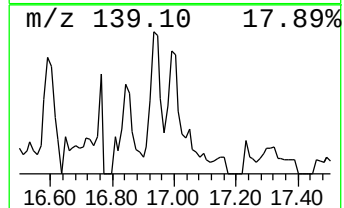
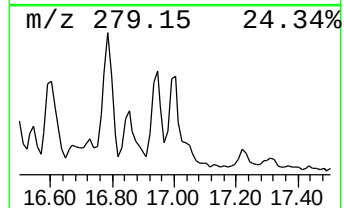
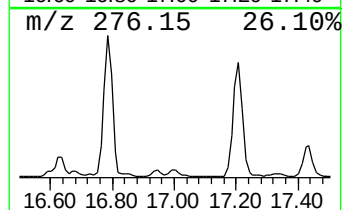
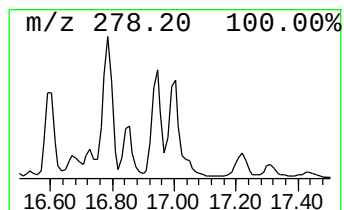
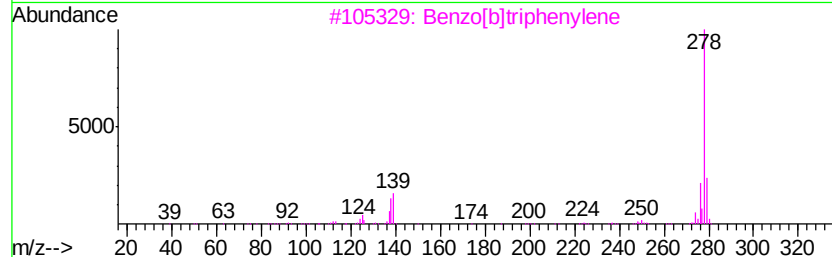
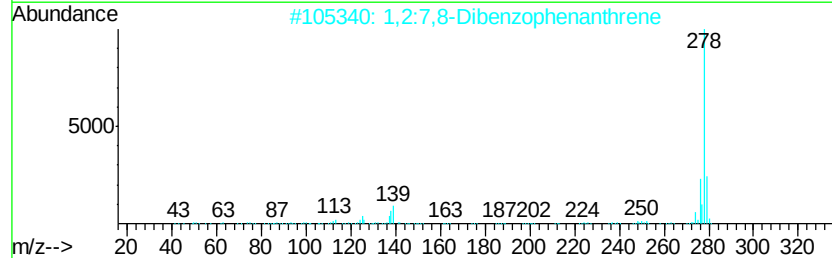
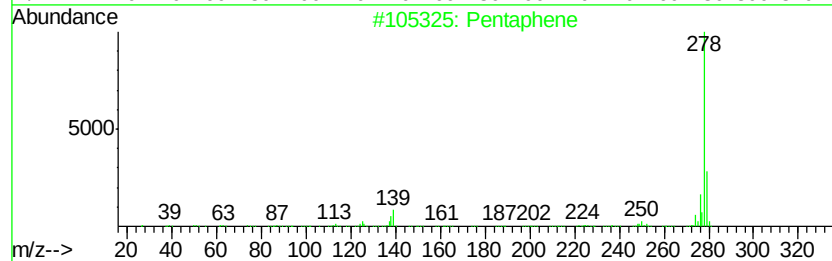
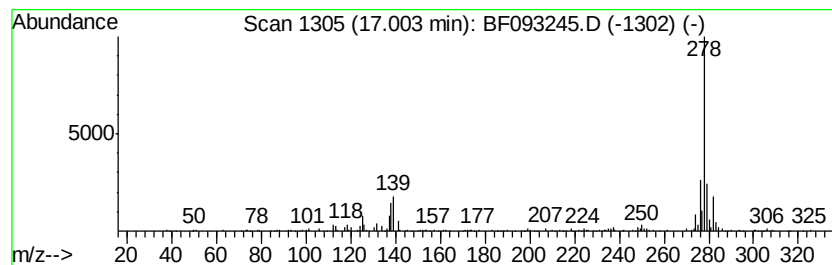
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Pentaphene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	4.96 ng	249760	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pentaphene	278	C22H14	000222-93-5	98
2		1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
3		Benzo[b]triphenylene	278	C22H14	000215-58-7	97
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
5		Benzo[a]naphthacene	278	C22H14	000226-88-0	94



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ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId :
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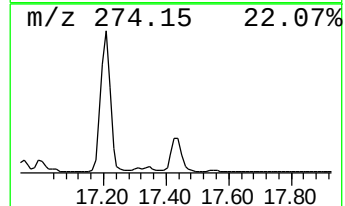
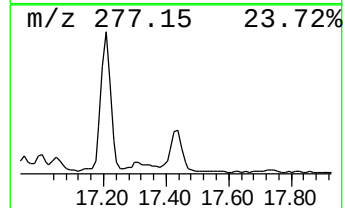
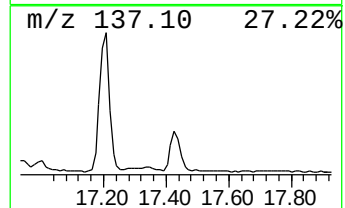
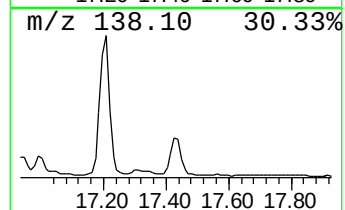
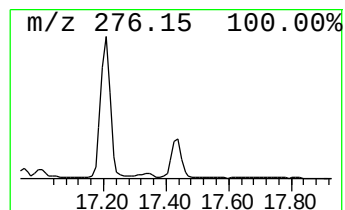
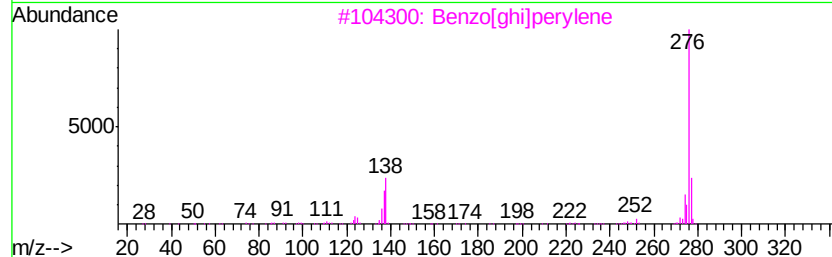
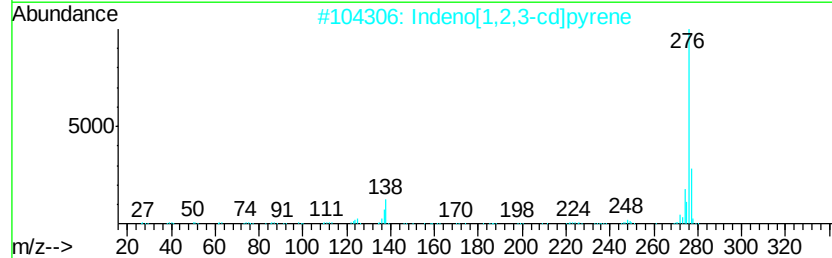
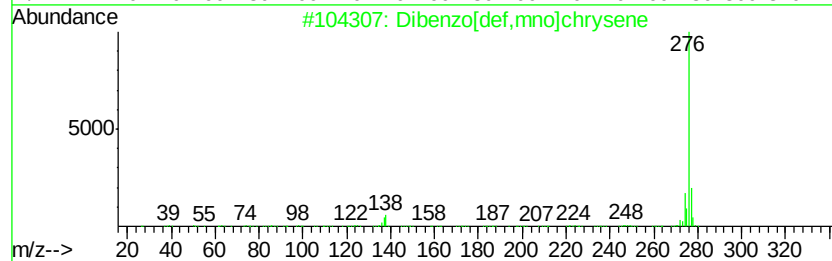
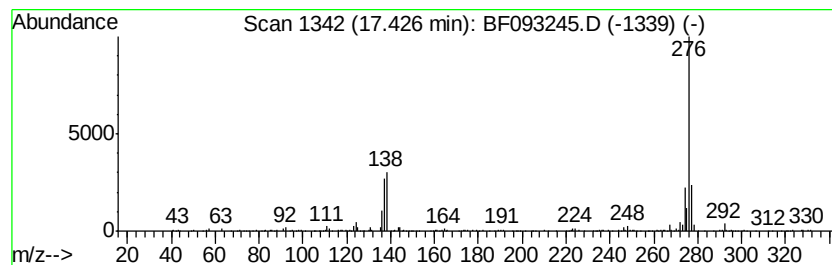
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	10.96 ng	552240	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
3		Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5		6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	52



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
Data File : BF093245.D
Acq On : 28 Feb 2017 13:41
Operator : SJ/MA
Sample : I1998-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

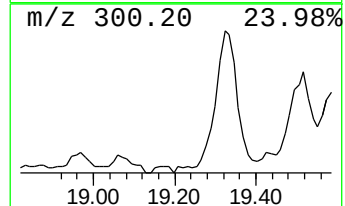
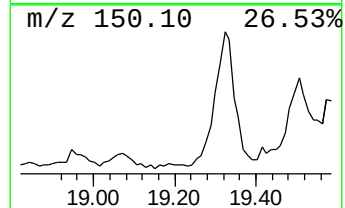
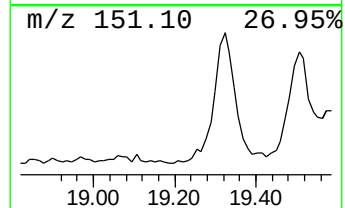
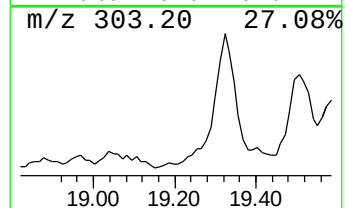
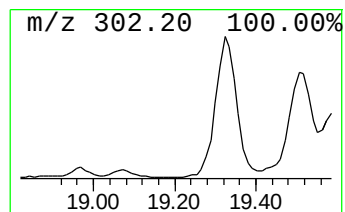
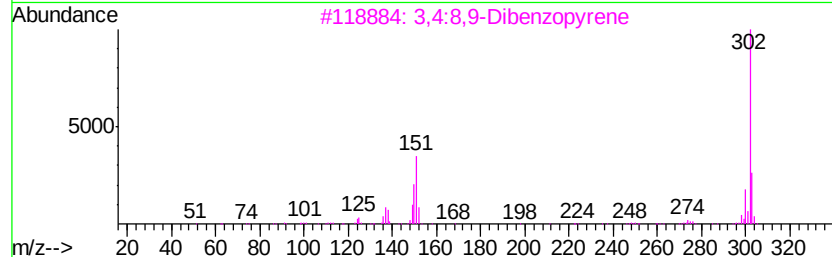
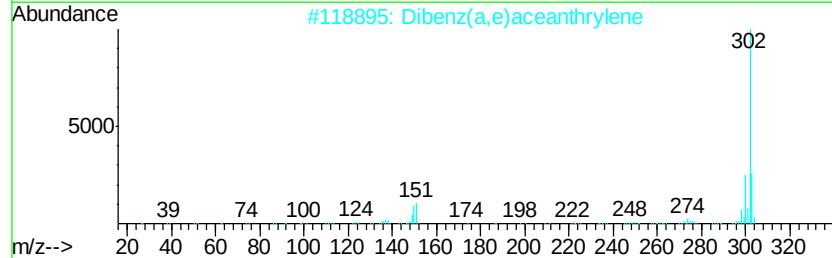
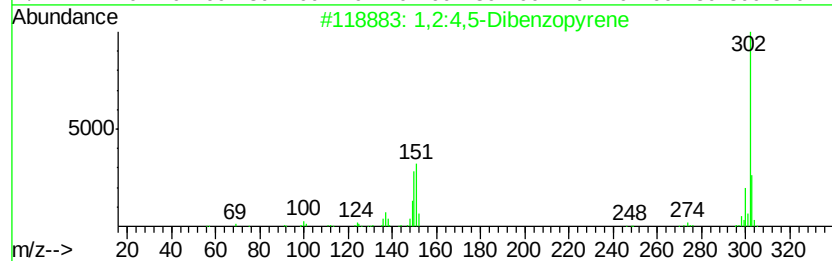
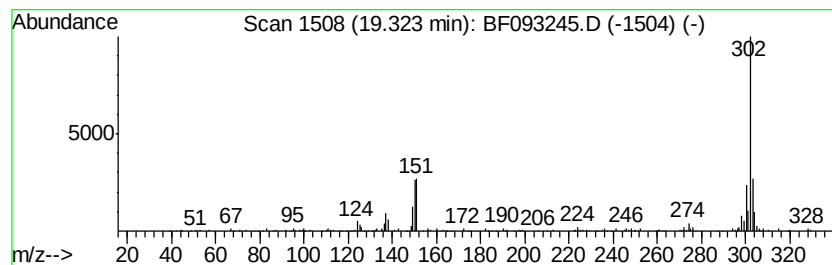
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
19.32	9.15 ng	461050	Perylene-d12	15.39	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	95
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	94
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	81



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
Data File : BF093245.D
Acq On : 28 Feb 2017 13:41
Operator : SJ/MA
Sample : I1998-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-15-41-COMP

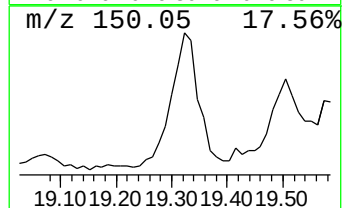
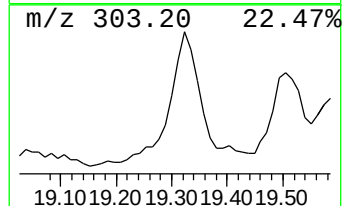
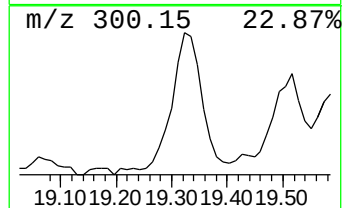
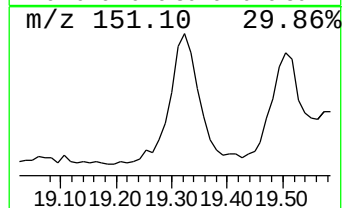
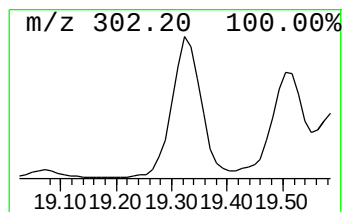
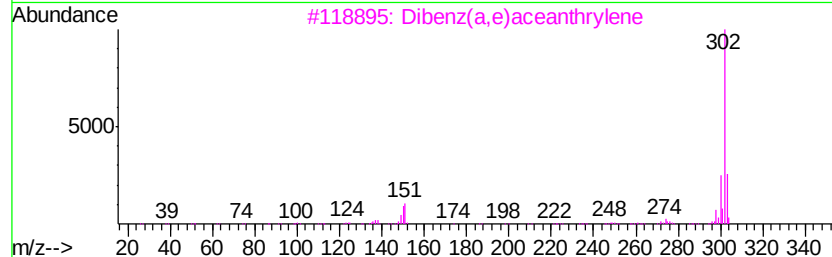
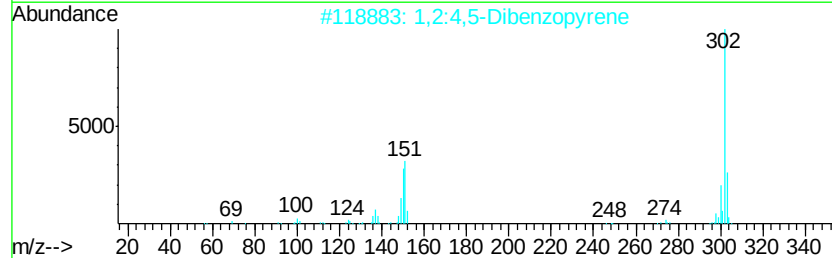
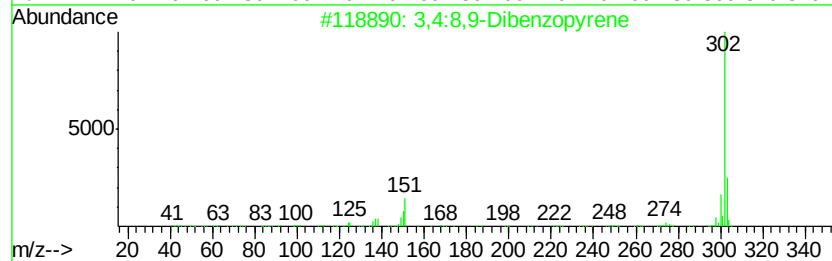
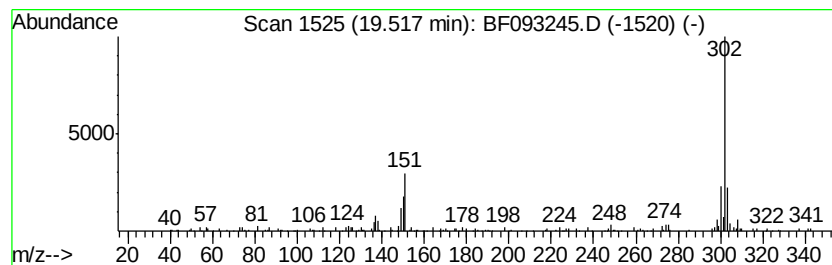
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.52	4.86 ng	244695	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
2		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	91
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
4		3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	89
5		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	74



Data Path : Z:\HPCHEM1\BNA_F\Data\BF022817\
 Data File : BF093245.D
 Acq On : 28 Feb 2017 13:41
 Operator : SJ/MA
 Sample : I1998-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-15-41-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.97	32.2	ng	1438730	1	6.81	893340	20.0
unknown6.58	6.58	73.7	ng	3293870	1	6.81	893340	20.0
Naphthalene, 2,3-...	9.50	4.3	ng	267049	3	9.85	1231470	20.0
Phenanthrene, 2-m...	11.83	3.3	ng	896234	4	11.33	5394920	20.0
4H-Cyclopenta[def...	11.94	7.3	ng	1969700	4	11.33	5394920	20.0
Pyrene, 1-methyl-	12.99	3.1	ng	625683	5	13.97	4030840	20.0
Fluoranthene, 2-m...	13.09	5.6	ng	1132880	5	13.97	4030840	20.0
Benzo[b]naphtho[2...	13.71	3.1	ng	620322	5	13.97	4030840	20.0
unknown14.48	14.48	3.2	ng	652278	5	13.97	4030840	20.0
Dibenzo(b,def)car...	14.68	6.5	ng	327715	6	15.39	1007640	20.0
9H-Fluorene, 9-(p...	14.83	4.7	ng	237792	6	15.39	1007640	20.0
Benzo[e]pyrene	15.09	8.3	ng	417131	6	15.39	1007640	20.0
Dinaphtho[1,2-b:1...	15.19	4.4	ng	223016	6	15.39	1007640	20.0
Benz[e]acephenant...	15.28	28.7	ng	1446530	6	15.39	1007640	20.0
unknown15.92	15.92	3.8	ng	189682	6	15.39	1007640	20.0
Pentaphene	17.00	5.0	ng	249760	6	15.39	1007640	20.0
Dibenzo[def,mno]c...	17.43	11.0	ng	552240	6	15.39	1007640	20.0
1,2:4,5-Dibenzopy...	19.32	9.2	ng	461050	6	15.39	1007640	20.0
3,4:8,9-Dibenzopy...	19.52	4.9	ng	244695	6	15.39	1007640	20.0