

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
 Data File : BF083774.D
 Acq On : 14 Dec 2015 12:33
 Operator : UM/IZ
 Sample : G4761-07 5X
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENT

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-BF121315.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	5.516	298	300	303	rBV	656177	632358	5.13%	0.390%
2	6.544	387	390	392	rBV	519827	609930	4.95%	0.376%
3	6.682	400	402	405	rBV	716176	650794	5.28%	0.401%
4	6.922	421	423	425	rVB	686420	570253	4.62%	0.351%
5	7.082	434	437	438	rBV	426982	510440	4.14%	0.314%
6	7.470	469	471	474	rVB	315249	341435	2.77%	0.210%
7	8.202	533	535	539	rVB2	736924	917489	7.44%	0.565%
8	9.276	627	629	631	rBV	764232	640690	5.19%	0.395%
9	9.962	686	689	690	rBV	605160	703946	5.71%	0.434%
10	9.996	690	692	693	rVB	870884	1155212	9.37%	0.712%
11	10.156	704	706	708	rBV	240973	240398	1.95%	0.148%
12	10.499	734	736	739	rVB	620440	625371	5.07%	0.385%
13	10.568	739	742	743	rBV	139284	195229	1.58%	0.120%
14	10.591	743	744	749	rVB2	177207	390390	3.17%	0.241%
15	10.739	755	757	759	rBV	488949	478795	3.88%	0.295%
16	11.048	780	784	786	rBV3	160411	280835	2.28%	0.173%
17	11.196	793	797	799	rBV4	85069	242459	1.97%	0.149%
18	11.299	803	806	808	rVV2	339321	433096	3.51%	0.267%
19	11.333	808	809	813	rVB	525561	520217	4.22%	0.320%
20	11.482	816	822	823	rBV	4061384	7265218	58.91%	4.476%
21	11.516	823	825	827	rVV	1821036	2459956	19.95%	1.515%
22	11.665	835	838	840	rBV2	1506557	2060463	16.71%	1.269%
23	11.733	840	844	846	rVV5	129044	304396	2.47%	0.188%
24	11.813	848	851	853	rVB	235986	321255	2.60%	0.198%
25	11.939	860	862	864	rVV	769874	1234207	10.01%	0.760%
26	11.974	864	865	867	rVB	1663621	1256311	10.19%	0.774%
27	12.019	867	869	871	rBV	754682	868758	7.04%	0.535%
28	12.065	871	873	876	rVV2	1917358	3052651	24.75%	1.881%
29	12.111	876	877	879	rVV2	147832	260021	2.11%	0.160%
30	12.145	879	880	881	rVV	296054	225976	1.83%	0.139%
31	12.202	881	885	887	rVV4	135033	435456	3.53%	0.268%
32	12.236	887	888	890	rVV	897390	777178	6.30%	0.479%
33	12.282	890	892	894	rVB3	137348	159342	1.29%	0.098%
34	12.385	899	901	903	rBV2	309990	401223	3.25%	0.247%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.442	903	906	908	rBV2	317327	573944	4.65%	0.354%
36	12.499	908	911	912	rBV	535606	751076	6.09%	0.463%
37	12.534	912	914	917	rVB2	398081	631172	5.12%	0.389%
38	12.591	917	919	922	rVB3	197690	350797	2.84%	0.216%
39	12.682	922	927	929	rBV	4920198	11647959	94.44%	7.176%
40	12.728	929	931	932	rVB	293543	357640	2.90%	0.220%
41	12.808	935	938	940	rBV	834595	1042466	8.45%	0.642%
42	12.899	942	946	949	rBV2	4658664	12333246	100.00%	7.598%
43	12.945	949	950	953	rVB2	776408	739445	6.00%	0.456%
44	13.014	953	956	958	rBV2	1030755	2165333	17.56%	1.334%
45	13.048	958	959	961	rVB	1314493	991981	8.04%	0.611%
46	13.105	961	964	968	rBV3	966658	2644407	21.44%	1.629%
47	13.219	968	974	976	rBV	2448680	5400213	43.79%	3.327%
48	13.288	976	980	982	rBV	2550844	4221192	34.23%	2.601%
49	13.334	982	984	987	rVB3	1653992	2988164	24.23%	1.841%
50	13.414	990	991	993	rBV	868594	1186739	9.62%	0.731%
51	13.448	993	994	996	rVB	1193769	847986	6.88%	0.522%
52	13.574	1003	1005	1006	rBV	433755	559350	4.54%	0.345%
53	13.642	1007	1011	1014	rVB	976700	2058497	16.69%	1.268%
54	13.699	1014	1016	1018	rBV	660473	1388241	11.26%	0.855%
55	13.734	1018	1019	1021	rVB	805488	747358	6.06%	0.460%
56	13.791	1023	1024	1026	rVB	833788	646541	5.24%	0.398%
57	13.837	1026	1028	1030	rBV	1619436	3264811	26.47%	2.011%
58	13.894	1032	1033	1036	rBV3	969963	1814010	14.71%	1.118%
59	14.008	1041	1043	1045	rVV	295024	366581	2.97%	0.226%
60	14.099	1046	1051	1052	rVV2	3638910	9054703	73.42%	5.578%
61	14.134	1052	1054	1057	rVB	3586255	6468383	52.45%	3.985%
62	14.202	1057	1060	1062	rBV3	1019690	2627992	21.31%	1.619%
63	14.259	1062	1065	1066	rVV3	544816	1402257	11.37%	0.864%
64	14.282	1066	1067	1068	rVV	828194	681234	5.52%	0.420%
65	14.317	1068	1070	1074	rVB4	1236736	2152488	17.45%	1.326%
66	14.408	1076	1078	1079	rBV	480932	431196	3.50%	0.266%
67	14.477	1079	1084	1086	rBV	1722232	3704960	30.04%	2.282%
68	14.579	1089	1093	1094	rBV4	714981	1275937	10.35%	0.786%
69	14.671	1099	1101	1104	rVV3	719234	1162528	9.43%	0.716%
70	14.808	1108	1113	1116	rBV2	906811	2598242	21.07%	1.601%
71	14.865	1116	1118	1119	rVV	617393	848330	6.88%	0.523%

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72	14.900	1119	1121	1123	rVB	783890	1009575	8.19%	0.622%
73	14.934	1123	1124	1125	rBV	224112	180500	1.46%	0.111%
74	14.968	1125	1127	1131	rBV3	527556	837234	6.79%	0.516%
75	15.151	1138	1143	1149	rBV	2703703	9345983	75.78%	5.758%
76	15.231	1149	1150	1152	rVV	819275	1000816	8.11%	0.617%
77	15.277	1152	1154	1155	rVB2	172572	219904	1.78%	0.135%
78	15.334	1155	1159	1161	rBV3	376460	1116057	9.05%	0.688%
79	15.437	1164	1168	1170	rVV	1810745	3422699	27.75%	2.109%
80	15.505	1170	1174	1176	rVB	2590471	4469263	36.24%	2.753%
81	15.551	1176	1178	1179	rBV	271515	362237	2.94%	0.223%
82	15.585	1179	1181	1184	rVB2	1187231	1673547	13.57%	1.031%
83	15.768	1191	1197	1200	rVB3	446825	1662163	13.48%	1.024%
84	15.860	1203	1205	1207	rVV	321353	406629	3.30%	0.251%
85	15.905	1207	1209	1212	rVB	552033	839373	6.81%	0.517%
86	15.974	1212	1215	1217	rBV	337068	713317	5.78%	0.439%
87	16.020	1217	1219	1221	rVV	162096	245599	1.99%	0.151%
88	16.100	1224	1226	1228	rVB	342750	415139	3.37%	0.256%
89	16.237	1236	1238	1240	rBV	197348	320457	2.60%	0.197%
90	16.625	1267	1272	1274	rBV	221700	697808	5.66%	0.430%
91	16.797	1283	1287	1289	rBV2	277126	752620	6.10%	0.464%
92	17.003	1298	1305	1308	rVB	1201897	3214106	26.06%	1.980%
93	17.060	1308	1310	1313	rBV	111927	176591	1.43%	0.109%
94	17.163	1316	1319	1321	rVV	302767	544142	4.41%	0.335%
95	17.220	1321	1324	1331	rVV4	219056	723563	5.87%	0.446%
96	17.448	1338	1344	1348	rBV	882052	2312942	18.75%	1.425%
97	17.666	1359	1363	1370	rVB2	424100	1235460	10.02%	0.761%
98	18.077	1396	1399	1404	rVV2	102451	275123	2.23%	0.169%
99	18.180	1405	1408	1413	rVB	169518	418862	3.40%	0.258%
100	18.568	1438	1442	1446	rBV5	108213	380264	3.08%	0.234%

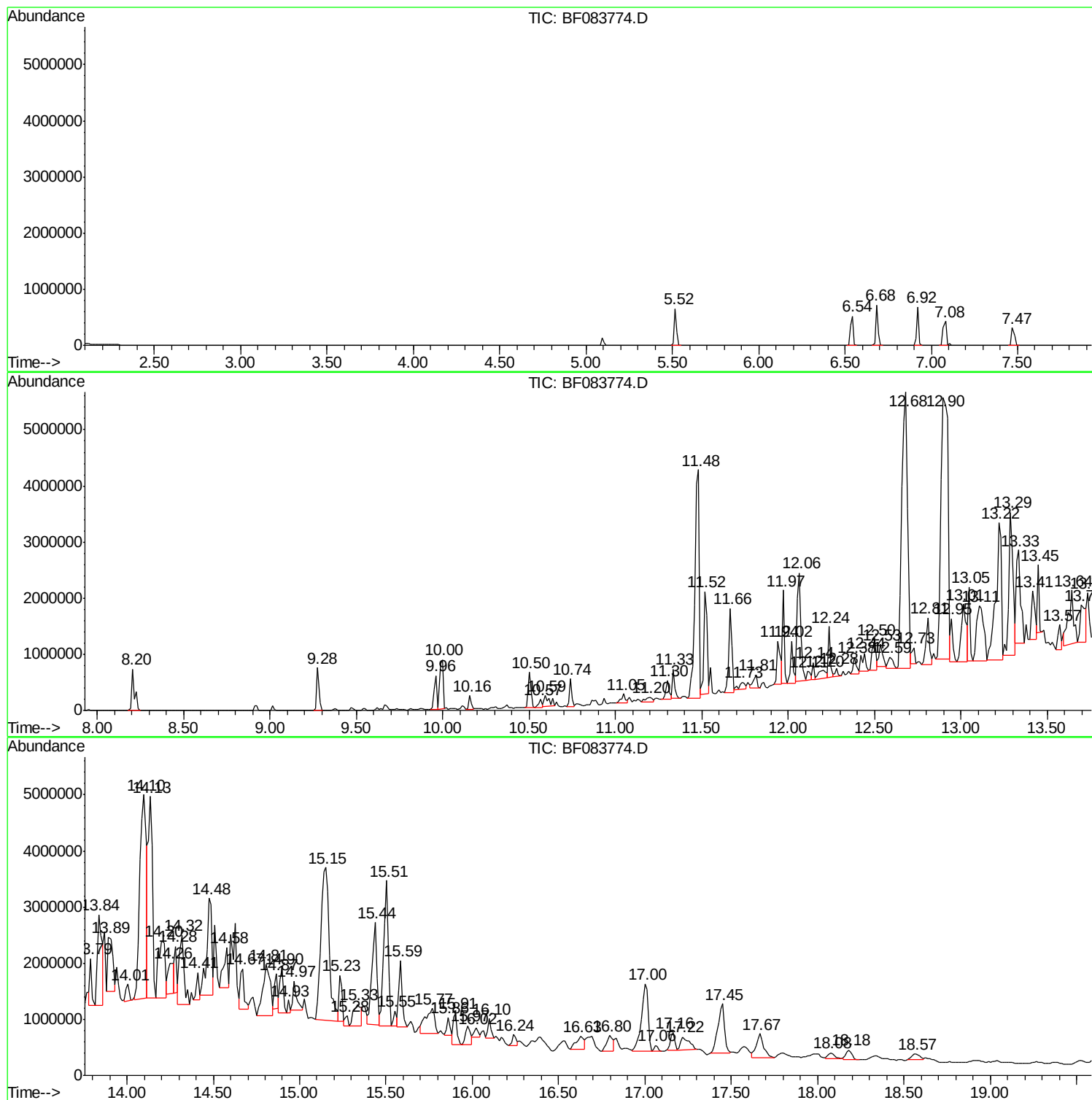
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Instrument :
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PIPE-SEDIMENT

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.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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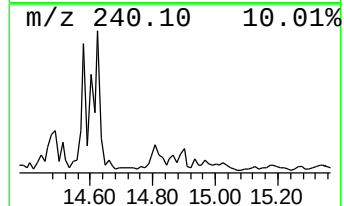
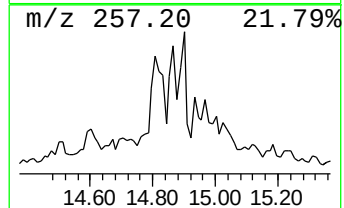
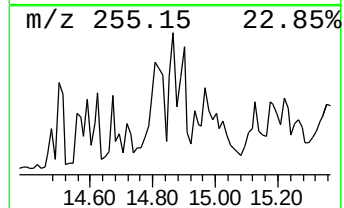
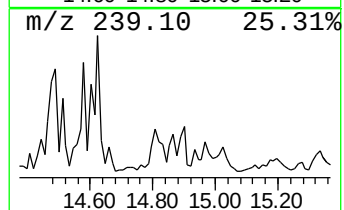
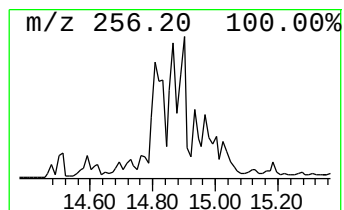
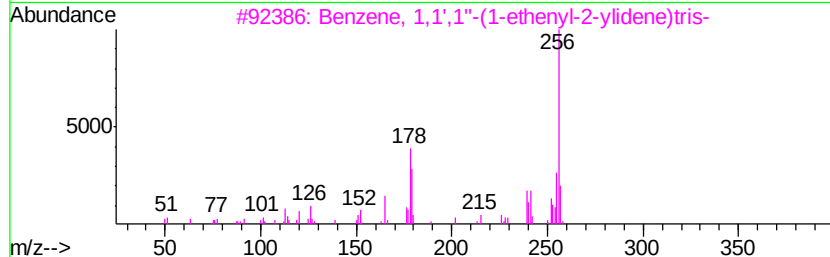
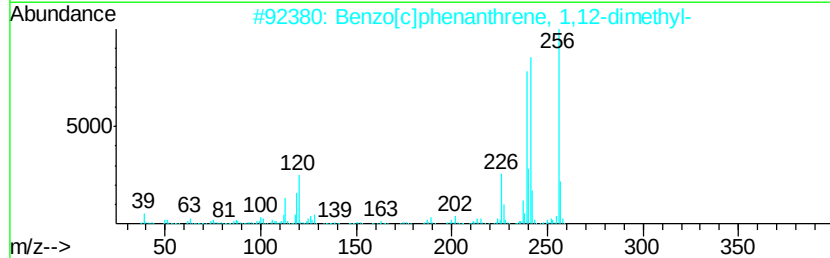
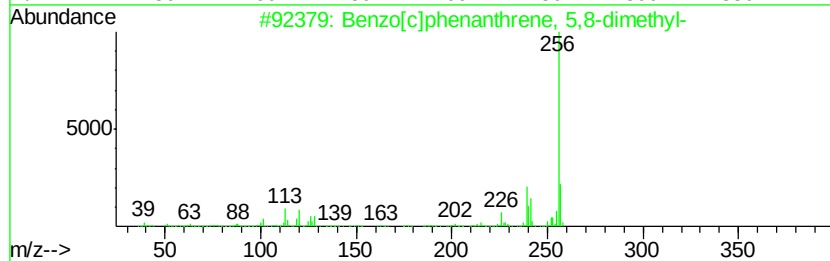
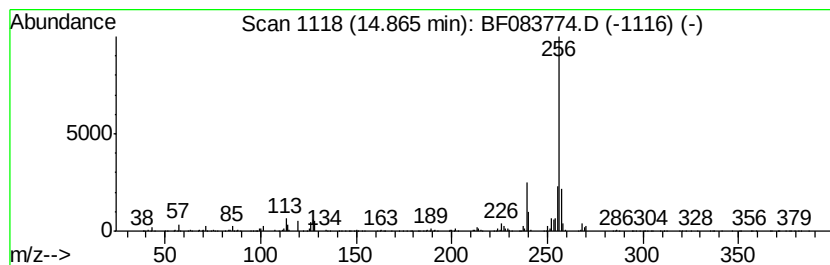
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	46.84 ng	848330	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	93
2		Benzo[c]phenanthrene, 1,12-dimet...	256	C20H16	004076-43-1	74
3		Benzene, 1,1',1''-(1-ethenyl-2-v...	256	C20H16	000058-72-0	72
4		Benz[alanthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
5		Chrysene, 5-ethyl-	256	C20H16	054986-62-8	64



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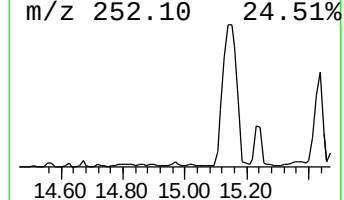
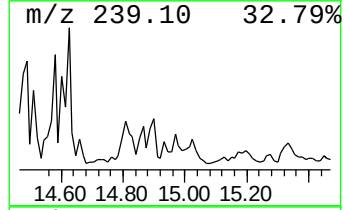
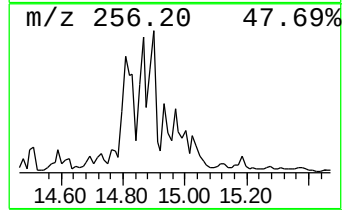
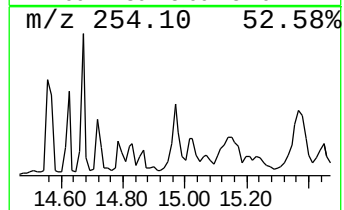
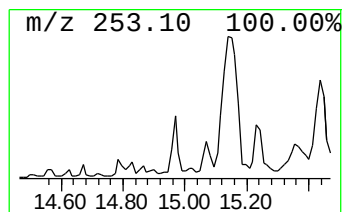
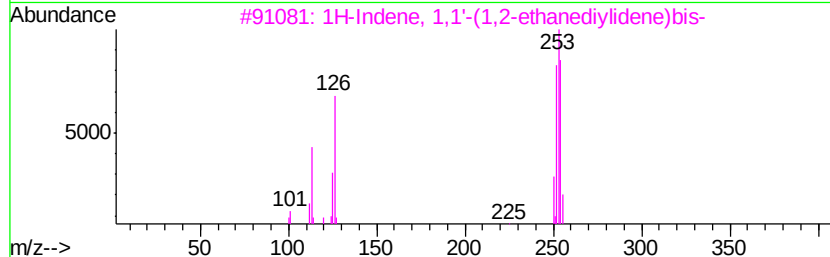
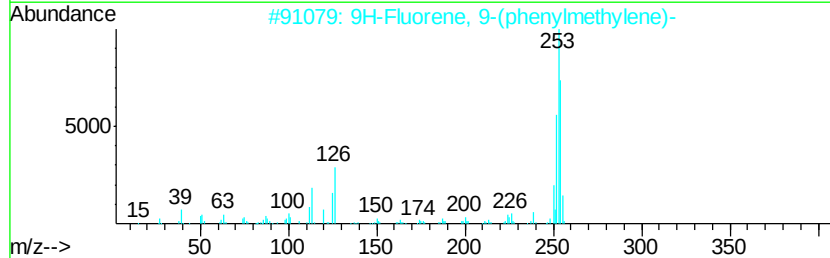
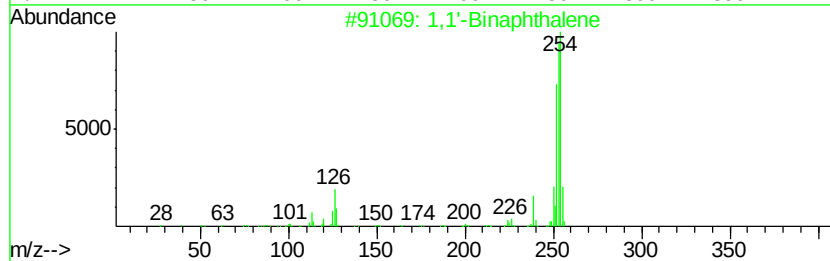
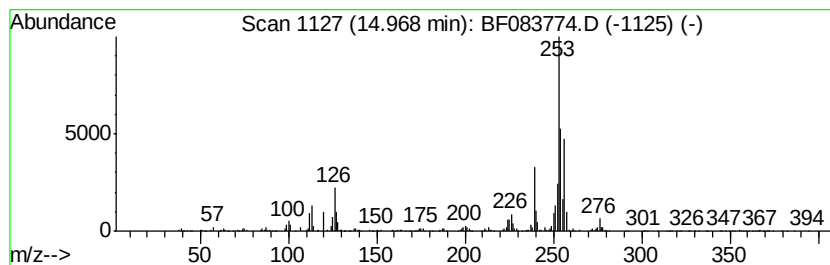
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 1,1'-Binaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	46.23 ng	837234	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Binaphthalene	254	C20H14	000604-53-5	64
2		9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	49
3		1H-Indene, 1,1'-(1,2-ethanedivli...	254	C20H14	072088-04-1	38
4		9,10[1',2'-l-Benzoanthracene, 9...	254	C20H14	000477-75-8	38
5		4,4'-Biazulenyl	254	C20H14	094053-54-0	35



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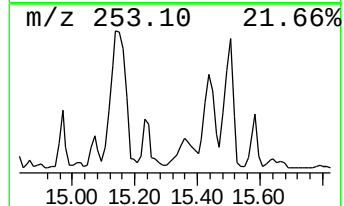
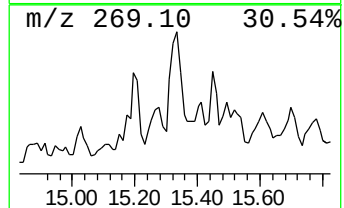
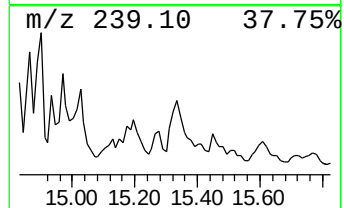
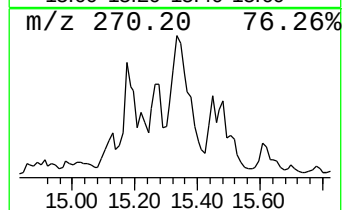
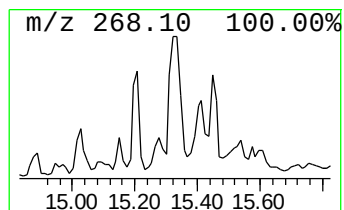
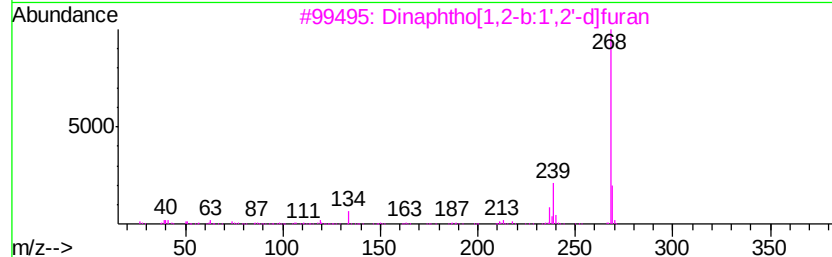
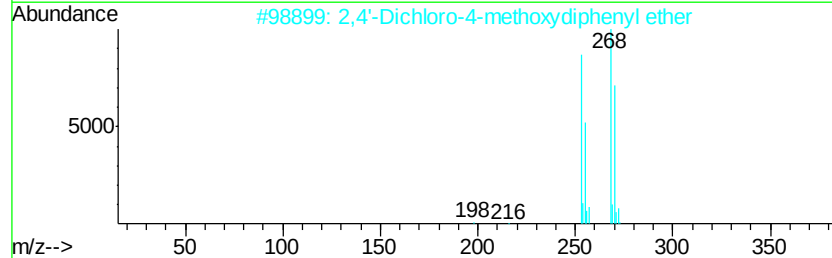
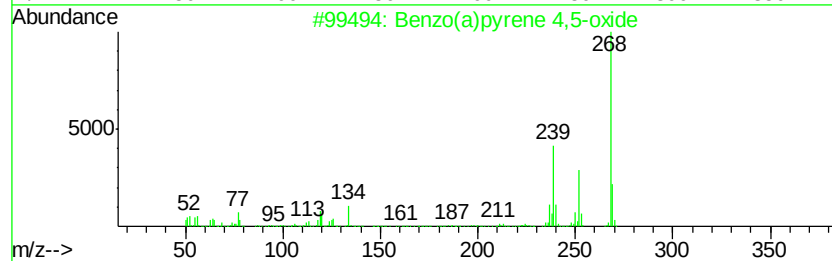
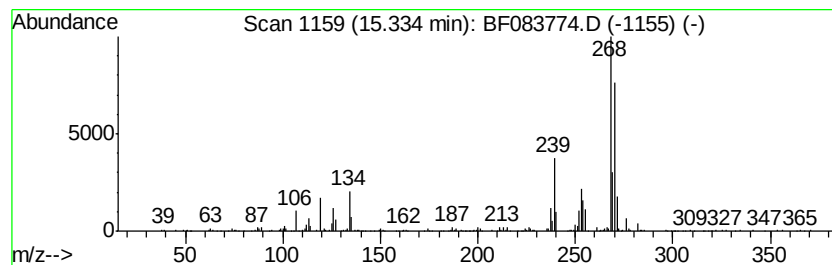
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzo(a)pyrene 4,5-oxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.33	61.62 ng	1116060	Perylene-d12	15.55		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene	4,5-oxide	268	C20H12O	037574-47-3	60
2	2,4'-Dichloro-4-methoxydiphenyl	...	268	C13H10Cl2O2	067061-64-7	59
3	Dinaphtho[1,2-b:1',2'-d]furan		268	C20H12O	000207-93-2	50
4	Benzen-1,2-diol, 4,5-dibromo-		266	C6H4Br2O2	002563-26-0	47
5	Dinaphtho[2,1-b:1',2'-d]furan		268	C20H12O	000194-63-8	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121315\
Data File : BF083774.D
Acq On : 14 Dec 2015 12:33
Operator : UM/IZ
Sample : G4761-07 5X
Misc :
ALS Vial : 67 Sample Multiplier: 1

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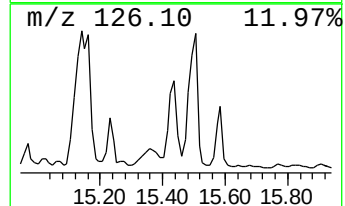
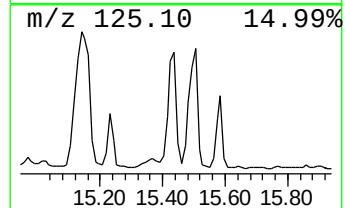
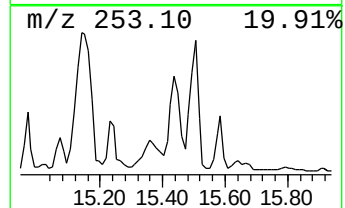
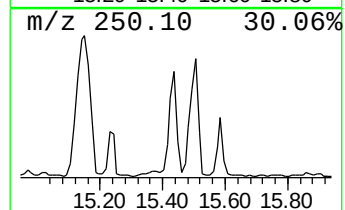
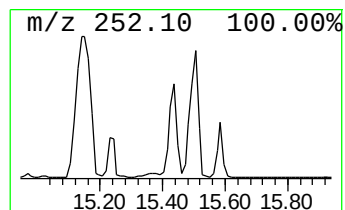
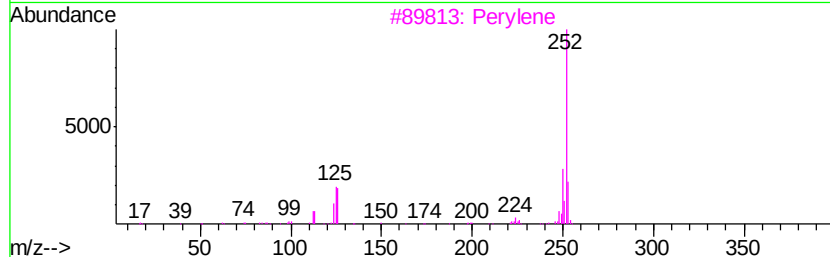
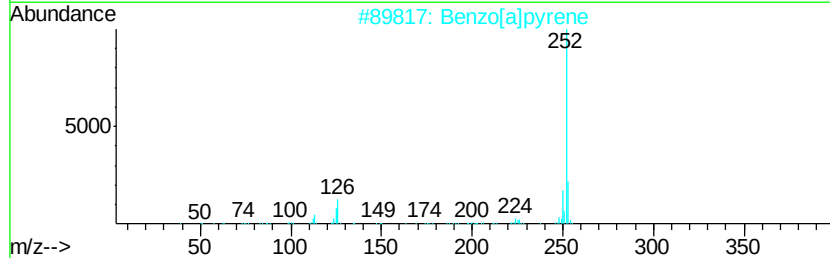
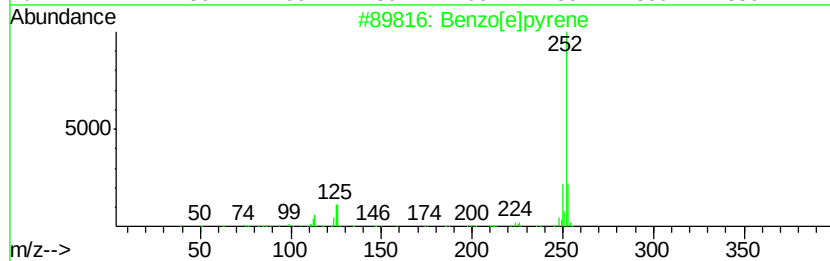
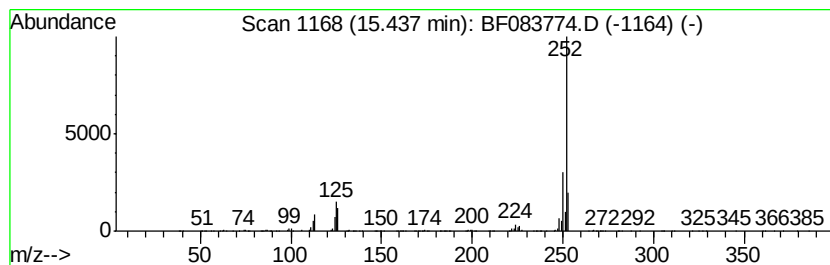
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	188.98 ng	3422700	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[a]pyrene	252	C20H12	000050-32-8	97
3		Perylene	252	C20H12	000198-55-0	96
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
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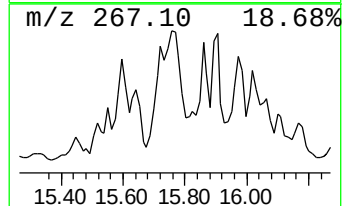
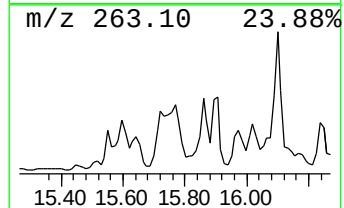
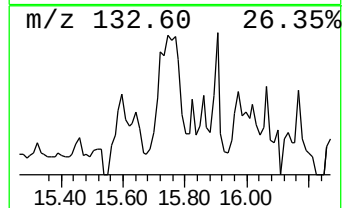
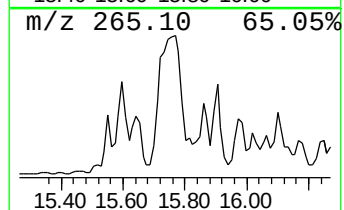
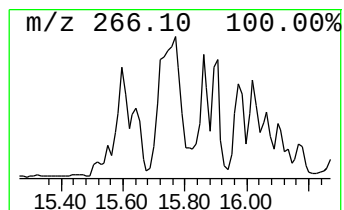
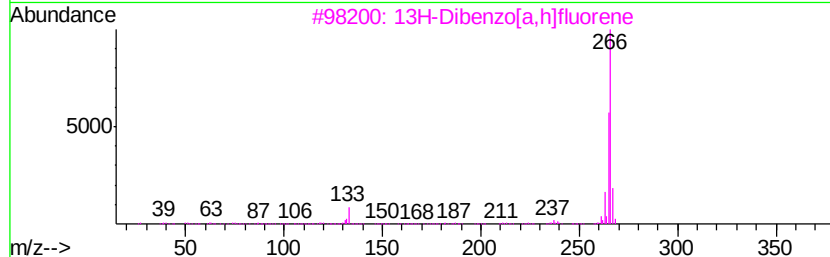
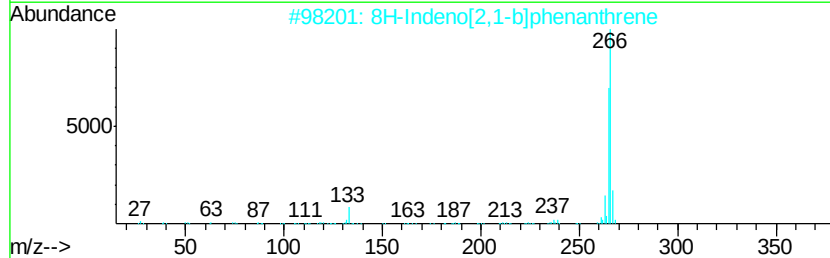
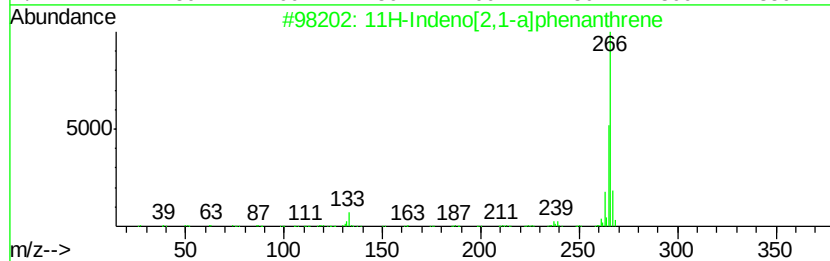
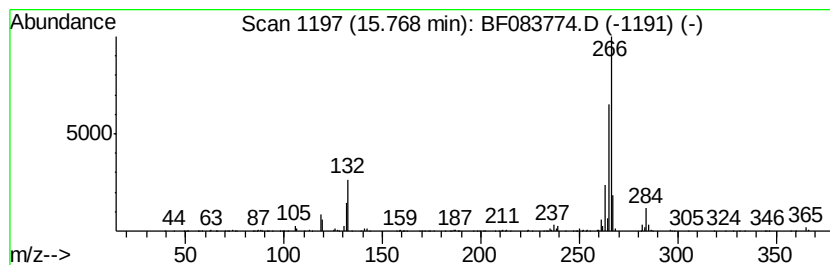
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 11H-Indeno[2,1-a]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.77	91.77 ng	1662160	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	92
2		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	89
3		13H-Dibenzof[a,h]fluorene	266	C21H14	000239-85-0	86
4		4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	64
5		2-Isoxazoline-3-carboxamide, N,5...	266	C16H14N2O2	1000294-15-0	42



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083774.D
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Sample : G4761-07 5X
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

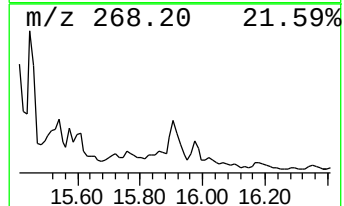
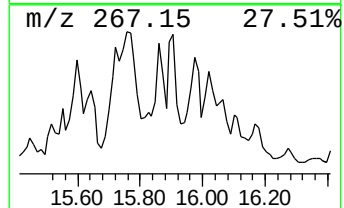
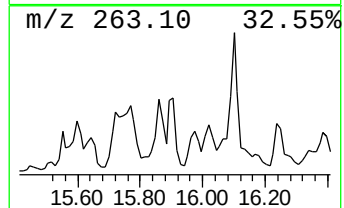
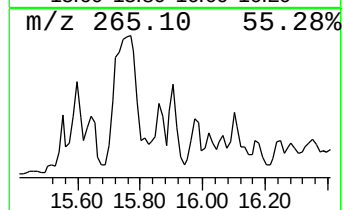
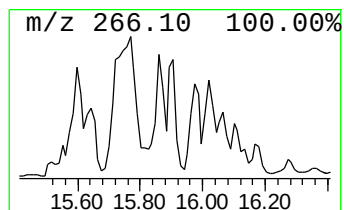
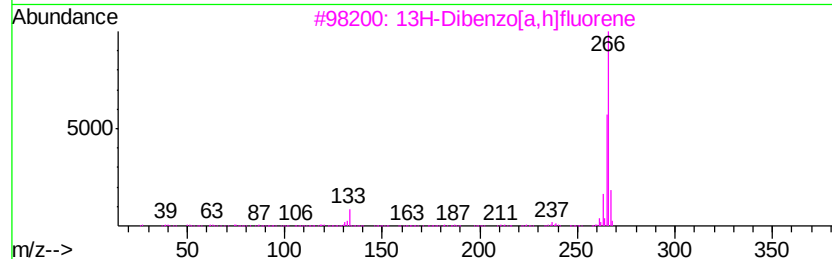
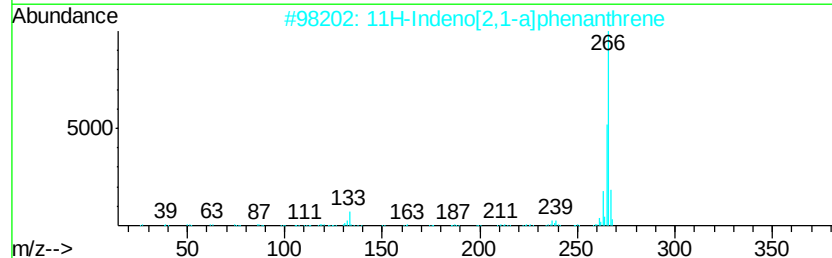
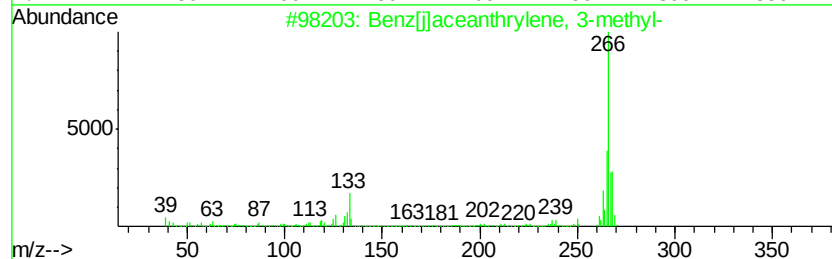
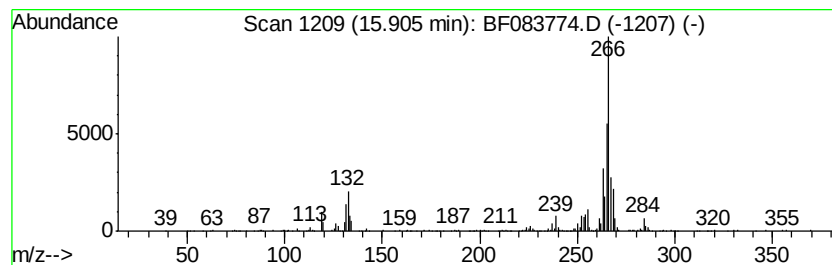
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Benz[j]aceanthrylene, 3-met... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	46.34 ng	839373	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	83
2		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58
3		13H-Dibenzof[a,h]fluorene	266	C21H14	000239-85-0	58
4		Perylene, 3-methyl-	266	C21H14	024471-47-4	55
5		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	50



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Sample : G4761-07 5X
Misc :
ALS Vial : 67 Sample Multiplier: 1

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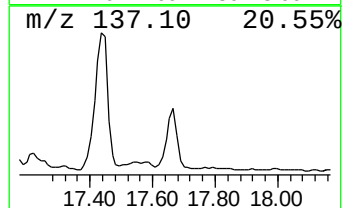
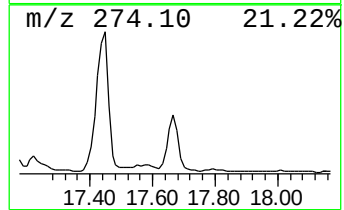
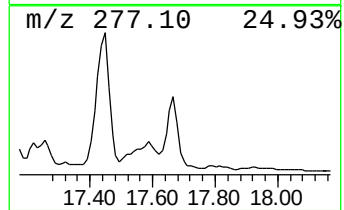
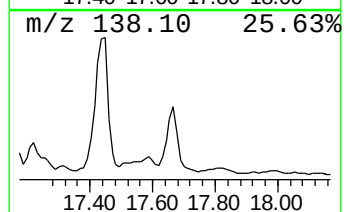
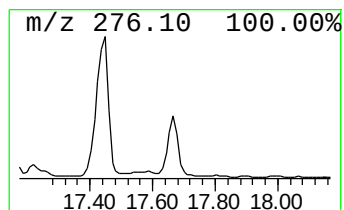
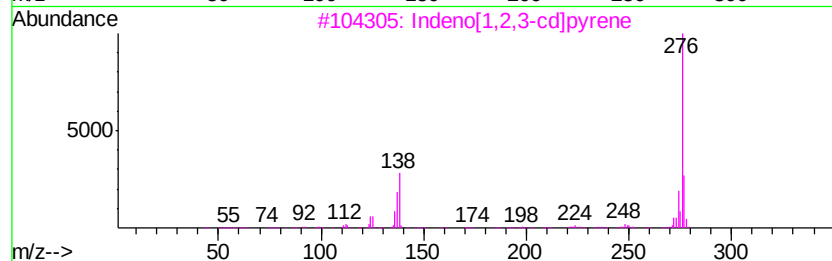
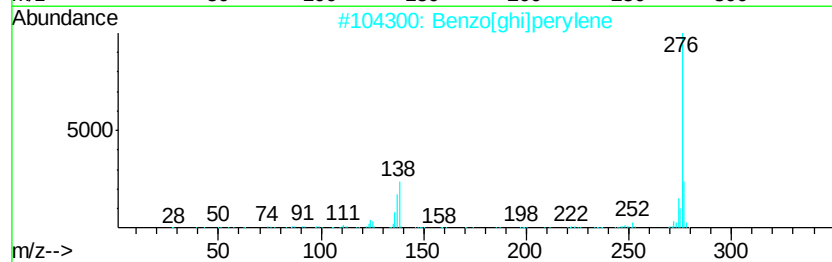
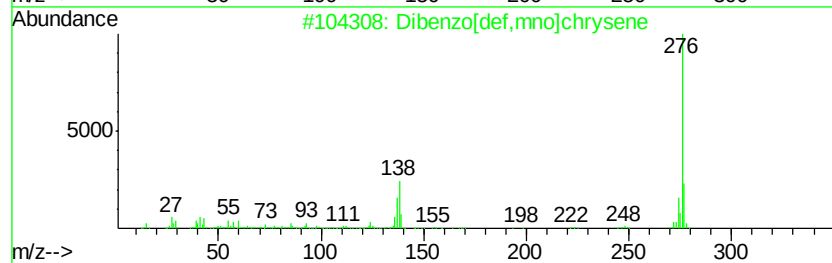
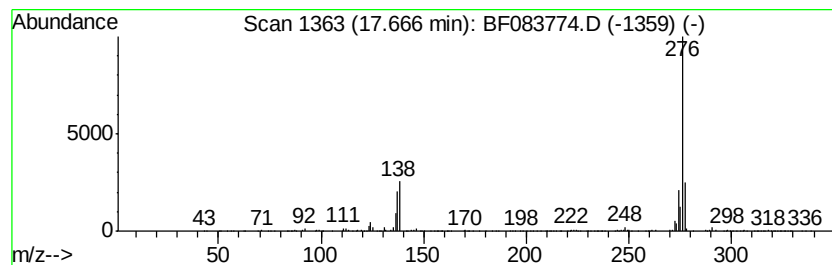
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Dibenzo[def,mno]chrysene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	68.21 ng	1235460	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
5		Phosphoric acid, 4-methoxy-2-(me...	276	C11H17O6P	094420-71-0	32



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121315\
Data File : BF083774.D
Acq On : 14 Dec 2015 12:33
Operator : UM/IZ
Sample : G4761-07 5X
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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
Benzo[c]phenanthr...	14.87	46.8	ng	848330	6	15.55	362237	20.0
1,1'-Binaphthalene	14.97	46.2	ng	837234	6	15.55	362237	20.0
Benzo(a)pyrene 4,...	15.33	61.6	ng	1116060	6	15.55	362237	20.0
Benzo[e]pyrene	15.44	189.0	ng	3422700	6	15.55	362237	20.0
11H-Indeno[2,1-a]...	15.77	91.8	ng	1662160	6	15.55	362237	20.0
Benz[j]aceanthryl...	15.91	46.3	ng	839373	6	15.55	362237	20.0
Dibenzo[def,mno]c...	17.67	68.2	ng	1235460	6	15.55	362237	20.0