

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF110517\
 Data File : BF100228.D
 Acq On : 5 Nov 2017 17:12
 Operator : SJ/JU
 Sample : I6257-01 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EPE-110-1(0-5)

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-BF102317.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	6.563	758	761	775	rVB	116852	212638	2.36%	0.260%
2	6.763	792	795	806	rBV	474696	461209	5.12%	0.564%
3	6.922	819	822	838	rBV	133193	153092	1.70%	0.187%
4	8.045	1010	1013	1026	rBV	678453	624932	6.94%	0.764%
5	9.116	1192	1195	1201	rBV	259767	225007	2.50%	0.275%
6	9.457	1249	1253	1256	rBV	153899	161721	1.80%	0.198%
7	9.792	1300	1310	1313	rBV2	671532	724130	8.04%	0.885%
8	9.828	1313	1316	1320	rVV	802280	720052	8.00%	0.880%
9	9.898	1324	1328	1332	rBV2	107952	155754	1.73%	0.190%
10	9.951	1332	1337	1341	rVV3	107049	148362	1.65%	0.181%
11	9.992	1341	1344	1349	rVV3	140353	226864	2.52%	0.277%
12	10.039	1349	1352	1356	rVV2	151077	150295	1.67%	0.184%
13	10.204	1374	1380	1382	rBV3	107407	166388	1.85%	0.203%
14	10.345	1397	1404	1410	rBV3	253196	349075	3.88%	0.427%
15	10.598	1442	1447	1451	rBV4	115410	175850	1.95%	0.215%
16	10.892	1491	1497	1500	rVV2	130229	227500	2.53%	0.278%
17	10.922	1500	1502	1505	rVV	173973	184137	2.04%	0.225%
18	11.139	1536	1539	1543	rVB4	107654	134017	1.49%	0.164%
19	11.186	1544	1547	1555	rVB	411639	393025	4.36%	0.480%
20	11.292	1561	1565	1566	rBV	553459	549231	6.10%	0.671%
21	11.322	1566	1570	1573	rVV	3765291	4472659	49.67%	5.466%
22	11.369	1573	1578	1582	rVV	2172855	2058785	22.86%	2.516%
23	11.416	1584	1586	1589	rVV	154725	194214	2.16%	0.237%
24	11.451	1589	1592	1596	rVV3	118289	157821	1.75%	0.193%
25	11.527	1600	1605	1611	rVV2	629582	758579	8.42%	0.927%
26	11.616	1615	1620	1628	rBV3	171798	324767	3.61%	0.397%
27	11.704	1632	1635	1639	rVB2	109844	146020	1.62%	0.178%
28	11.792	1646	1650	1652	rBV	789101	744939	8.27%	0.910%
29	11.822	1652	1655	1660	rVB	1030305	932624	10.36%	1.140%
30	11.869	1660	1663	1666	rBV	537406	458995	5.10%	0.561%
31	11.904	1666	1669	1671	rVV	1619764	1667784	18.52%	2.038%
32	11.927	1671	1673	1676	rVB	615639	498192	5.53%	0.609%
33	12.010	1685	1687	1691	rBV2	121178	172080	1.91%	0.210%
34	12.080	1696	1699	1704	rVV	929657	852943	9.47%	1.042%

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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-BF102317.M
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35	12.151	1708	1711	1714	rVB2	206092	252168	2.80%	0.308%
36	12.210	1714	1721	1723	rBV4	99093	136737	1.52%	0.167%
37	12.233	1723	1725	1728	rVV	232475	199113	2.21%	0.243%
38	12.269	1728	1731	1733	rVV	178393	182745	2.03%	0.223%
39	12.292	1733	1735	1739	rVB	135074	141573	1.57%	0.173%
40	12.339	1739	1743	1746	rBV	509531	541752	6.02%	0.662%
41	12.380	1748	1750	1752	rVV	266562	284038	3.15%	0.347%
42	12.439	1756	1760	1762	rVV2	173905	272075	3.02%	0.332%
43	12.463	1762	1764	1768	rVB	278208	274132	3.04%	0.335%
44	12.533	1768	1776	1779	rBV	4465065	8863101	98.42%	10.831%
45	12.586	1780	1785	1788	rVB2	206755	306062	3.40%	0.374%
46	12.663	1795	1798	1802	rBV2	641637	676191	7.51%	0.826%
47	12.710	1802	1806	1807	rVV2	104674	144406	1.60%	0.176%
48	12.763	1807	1815	1818	rVV3	4229137	9005282	100.00%	11.004%
49	12.792	1818	1820	1823	rVV	466117	404208	4.49%	0.494%
50	12.863	1826	1832	1835	rVV2	851343	840030	9.33%	1.027%
51	12.910	1838	1840	1844	rVV	487958	457045	5.08%	0.559%
52	12.957	1844	1848	1852	rVV3	529101	886046	9.84%	1.083%
53	12.998	1852	1855	1859	rVV	318999	294513	3.27%	0.360%
54	13.045	1859	1863	1864	rVV2	403853	492351	5.47%	0.602%
55	13.069	1864	1867	1872	rVB	1397757	1495829	16.61%	1.828%
56	13.133	1875	1878	1881	rVV	1378895	1311124	14.56%	1.602%
57	13.174	1881	1885	1891	rVV3	753297	1275383	14.16%	1.559%
58	13.227	1891	1894	1897	rVV3	177308	190377	2.11%	0.233%
59	13.269	1897	1901	1903	rVV	409480	407210	4.52%	0.498%
60	13.298	1903	1906	1914	rVB2	500937	641373	7.12%	0.784%
61	13.486	1936	1938	1941	rVV	205739	220479	2.45%	0.269%
62	13.551	1945	1949	1951	rBV2	148052	205411	2.28%	0.251%
63	13.592	1951	1956	1962	rVB	294813	445774	4.95%	0.545%
64	13.692	1967	1973	1974	rBV	767854	759870	8.44%	0.929%
65	13.710	1974	1976	1979	rVB2	969096	837745	9.30%	1.024%
66	13.745	1979	1982	1984	rBV	824040	858390	9.53%	1.049%
67	13.763	1984	1985	1989	rVB3	575554	396497	4.40%	0.485%
68	13.810	1990	1993	1996	rVB	390242	375071	4.17%	0.458%
69	13.863	1996	2002	2007	rBV	296062	474974	5.27%	0.580%
70	13.945	2010	2016	2019	rBV4	3028818	5430694	60.31%	6.636%
71	13.980	2019	2022	2027	rVB	2860886	3488007	38.73%	4.262%

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72	14.051	2032	2034	2038	rVB	1035293	863224	9.59%	1.055%
73	14.110	2038	2044	2048	rBV5	243486	380251	4.22%	0.465%
74	14.145	2048	2050	2052	rVV	366433	339038	3.76%	0.414%
75	14.180	2054	2056	2059	rVB	384767	319932	3.55%	0.391%
76	14.292	2072	2075	2077	rVV	192132	181887	2.02%	0.222%
77	14.327	2077	2081	2084	rVV	604608	788522	8.76%	0.964%
78	14.363	2084	2087	2090	rVV2	307464	305275	3.39%	0.373%
79	14.404	2090	2094	2096	rVV	279686	316677	3.52%	0.387%
80	14.433	2096	2099	2101	rVV2	322331	348028	3.86%	0.425%
81	14.457	2101	2103	2105	rVV	417398	474477	5.27%	0.580%
82	14.515	2109	2113	2120	rVV3	260515	432279	4.80%	0.528%
83	14.668	2132	2139	2144	rBV2	331784	602050	6.69%	0.736%
84	14.833	2161	2167	2180	rVB4	180222	489376	5.43%	0.598%
85	14.939	2180	2185	2188	rBV	142721	189047	2.10%	0.231%
86	14.992	2188	2194	2196	rBV	2101728	3454629	38.36%	4.222%
87	15.010	2196	2197	2202	rVB	1292759	1116730	12.40%	1.365%
88	15.092	2207	2211	2217	rBV	442164	520422	5.78%	0.636%
89	15.168	2221	2224	2226	rBV2	144535	173814	1.93%	0.212%
90	15.280	2239	2243	2247	rVV	1075314	1337988	14.86%	1.635%
91	15.351	2251	2255	2260	rVB	1635668	2169085	24.09%	2.651%
92	15.404	2260	2264	2267	rBV	324614	384110	4.27%	0.469%
93	15.439	2267	2270	2277	rVB	574558	724459	8.04%	0.885%
94	15.574	2289	2293	2296	rBV	105690	147010	1.63%	0.180%
95	15.627	2296	2302	2308	rVB2	132375	275657	3.06%	0.337%
96	15.892	2343	2347	2355	rBV5	59798	132994	1.48%	0.163%
97	16.868	2505	2513	2521	rVB2	533421	1040008	11.55%	1.271%
98	17.027	2535	2540	2546	rBV	129663	247329	2.75%	0.302%
99	17.309	2582	2588	2603	rVB	372335	821602	9.12%	1.004%
100	17.574	2628	2633	2644	rVB	91617	205398	2.28%	0.251%

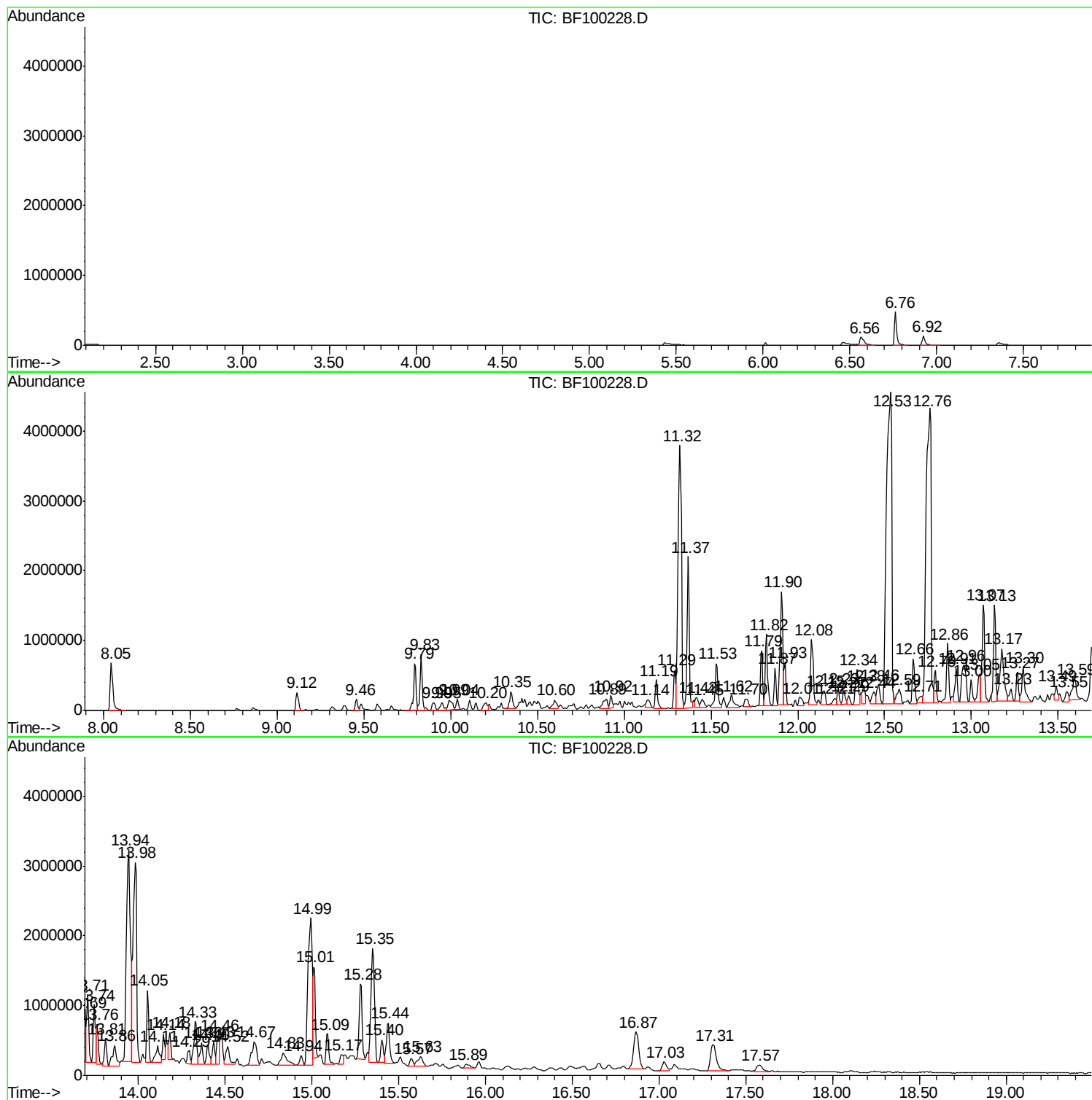
Sum of corrected areas: 81832755

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EPE-110-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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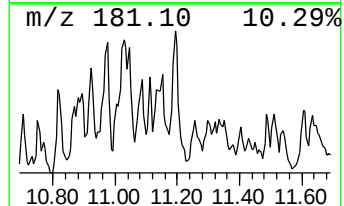
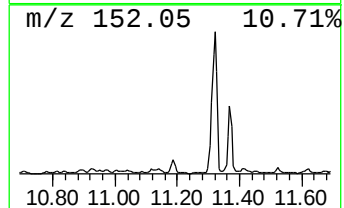
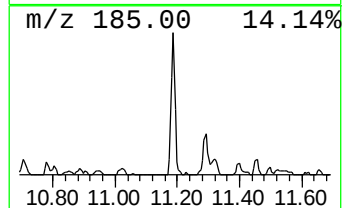
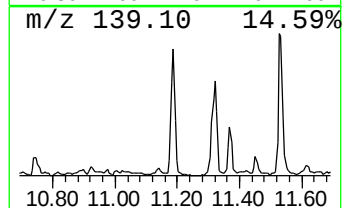
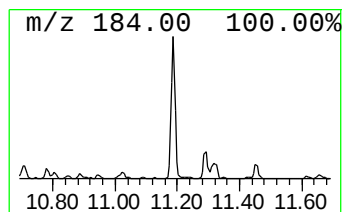
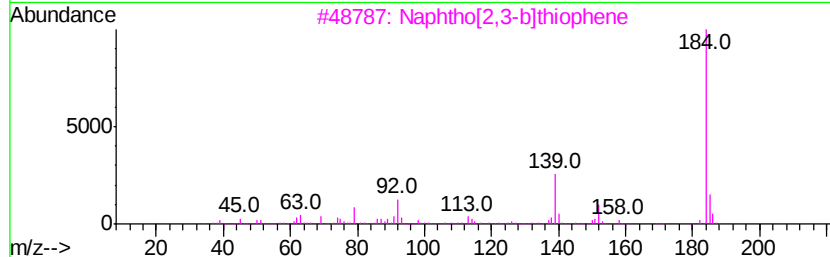
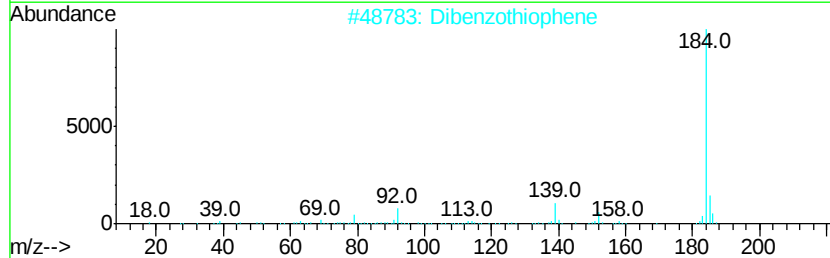
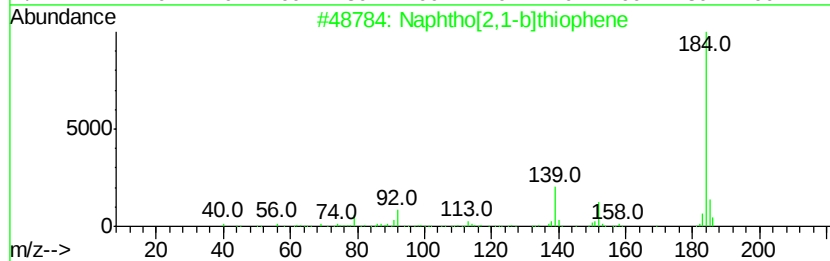
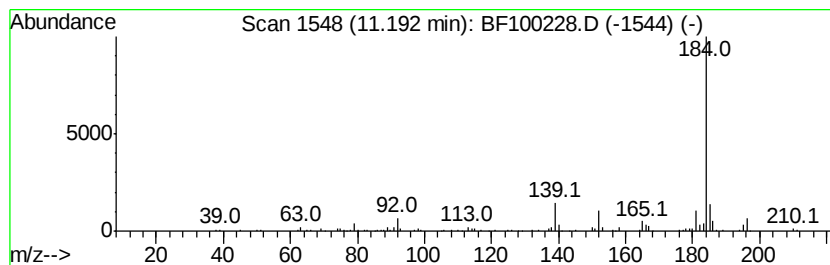
Instrument :
BNA_F
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Naphtho[2,1-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.19	14.31 ng	393025	Phenanthrene-d10	11.29		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2		Dibenzothiophene	184	C12H8S	000132-65-0	97
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



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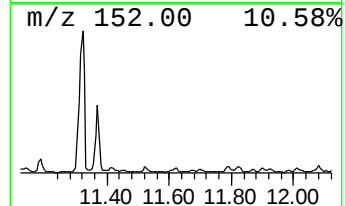
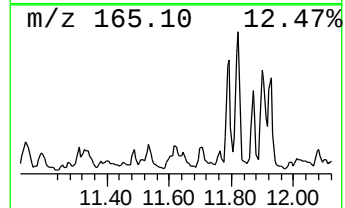
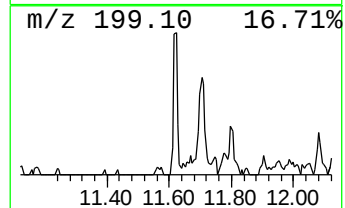
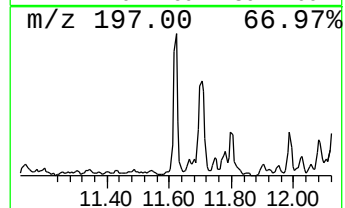
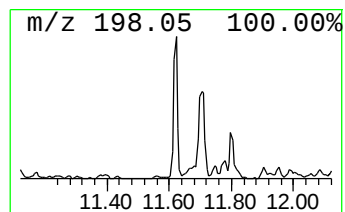
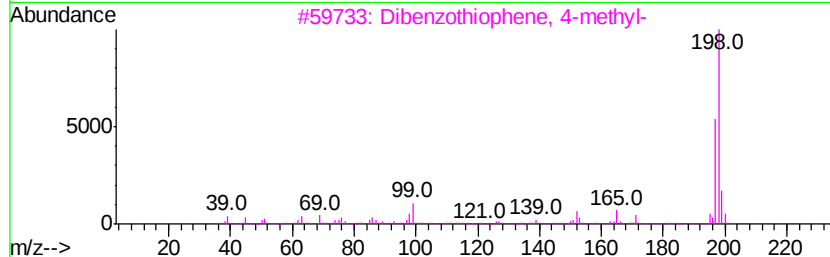
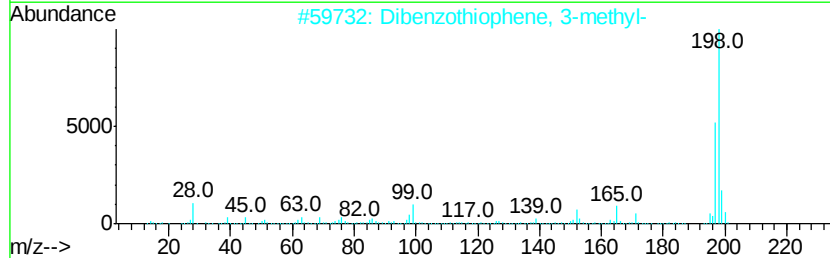
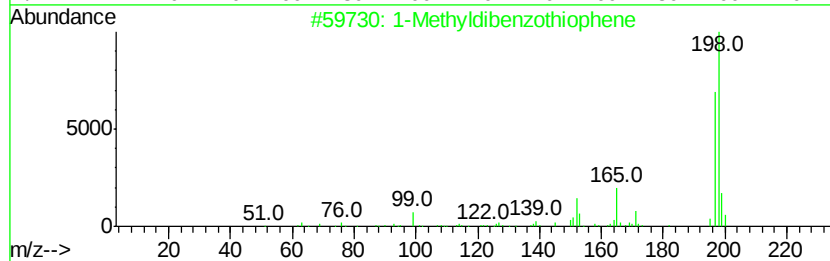
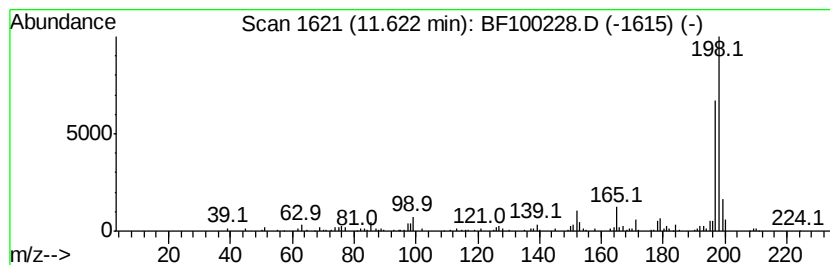
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 1-Methyldibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD		R.T.		
11.62	11.83 ng	324767	Phenanthrene-d10		11.29		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Methyldibenzothiophene	198	C13H10S	031317-07-4	95
2			Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
3			Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
4			Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	72
5			Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	58



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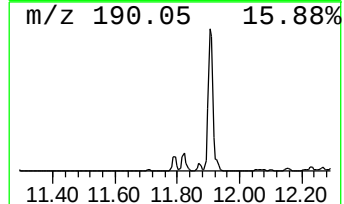
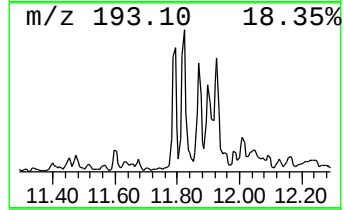
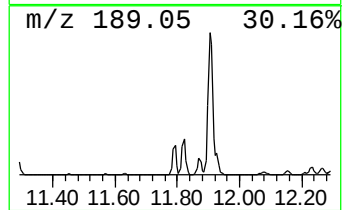
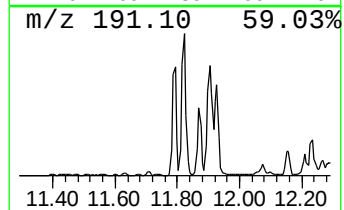
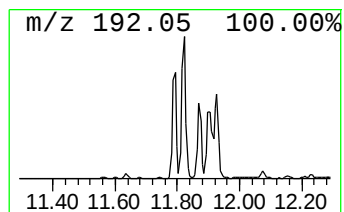
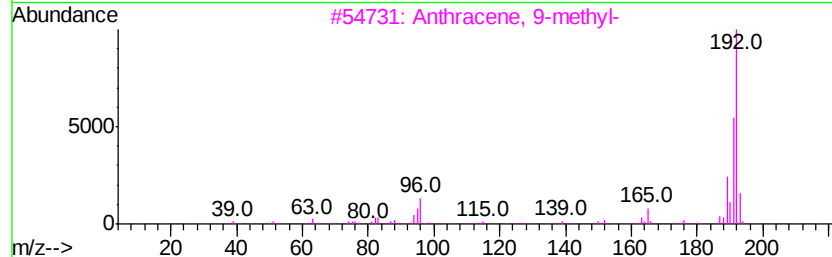
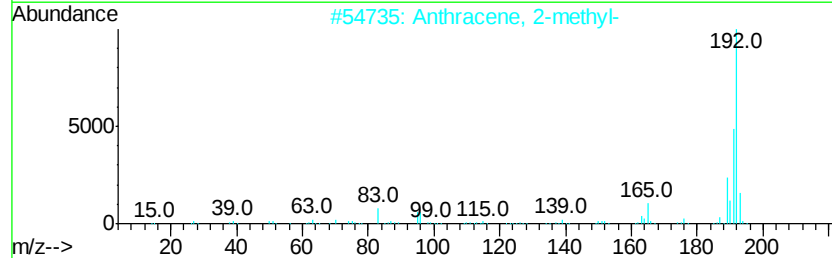
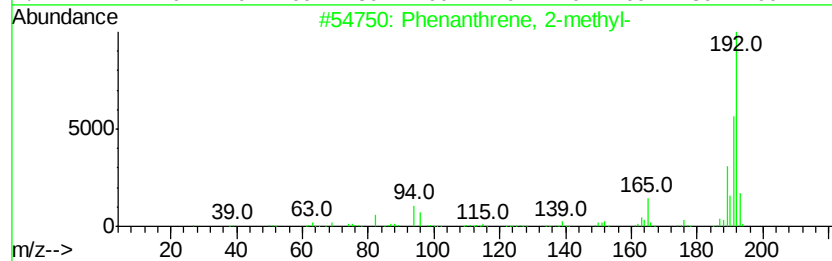
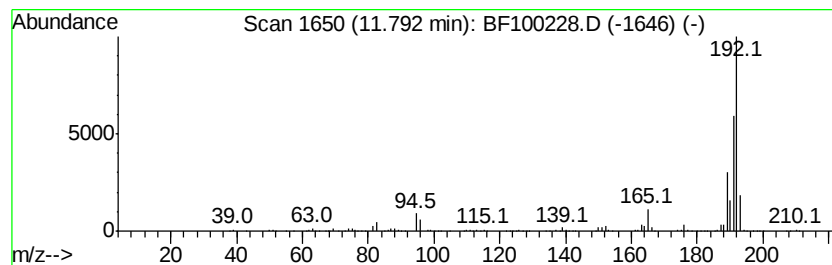
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EPE-110-1(0-5)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.79	27.13 ng	744939	Phenanthrene-d10	11.29	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

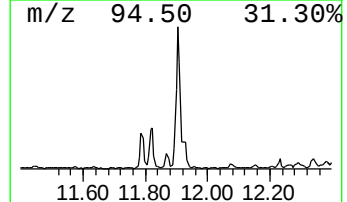
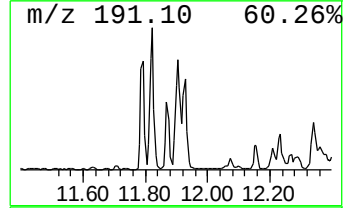
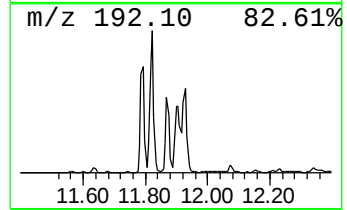
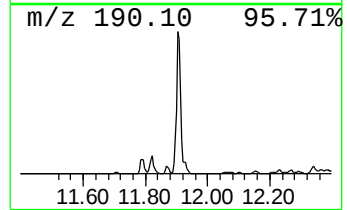
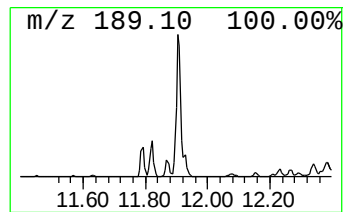
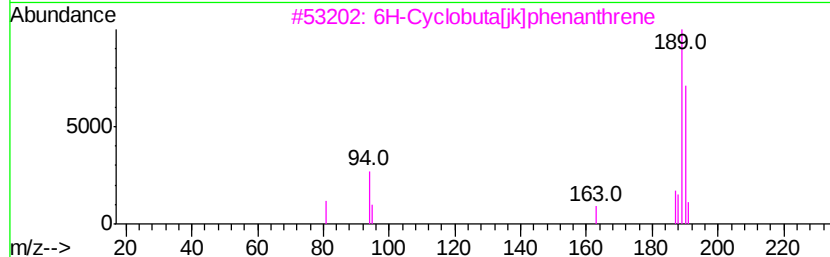
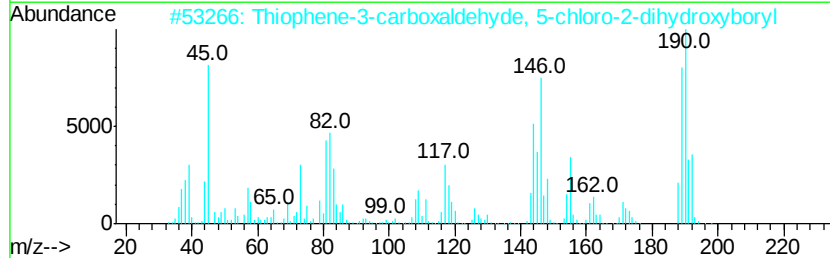
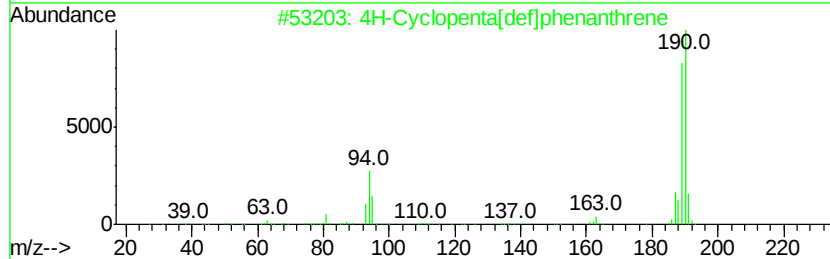
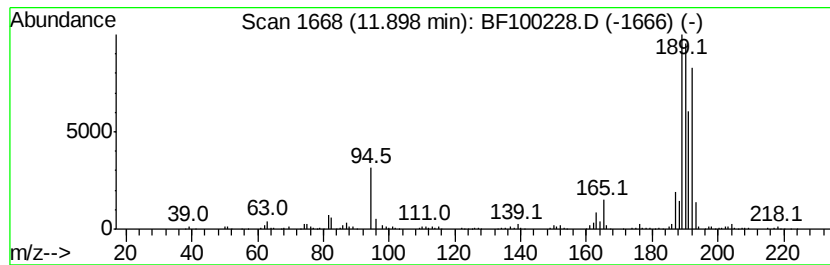
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ClientSampleId :
EPE-110-1(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.90	60.73 ng	1667780	Phenanthrene-d10	11.29	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cvclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	59
3	6H-Cvclobuta[ikl]phenanthrene	190	C15H10	083469-43-6	50
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
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Operator : SJ/JU
Sample : I6257-01 10X
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Instrument :
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ClientSampleId :
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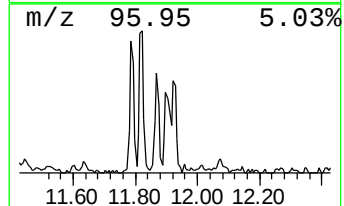
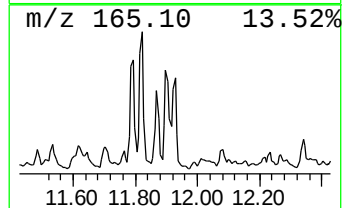
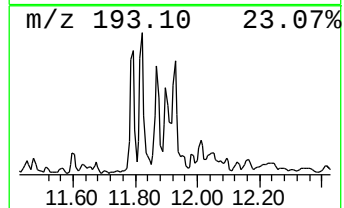
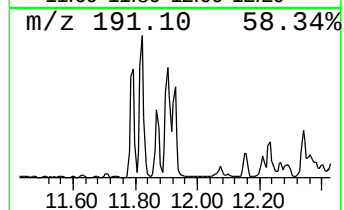
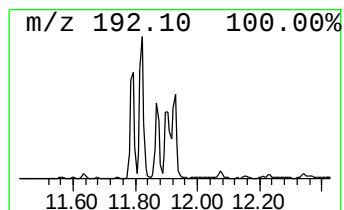
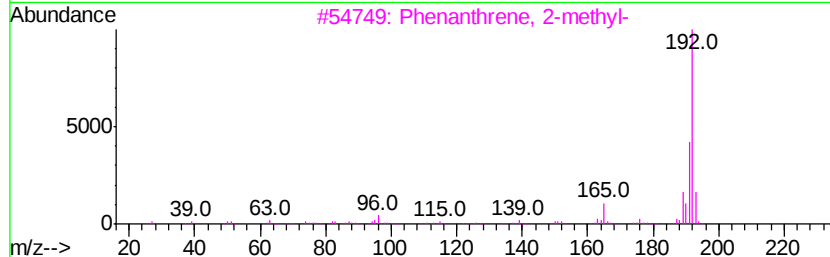
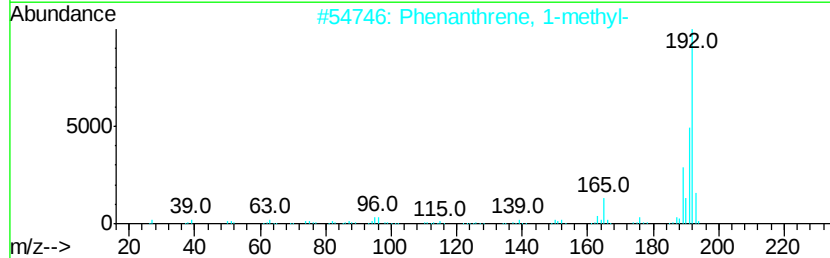
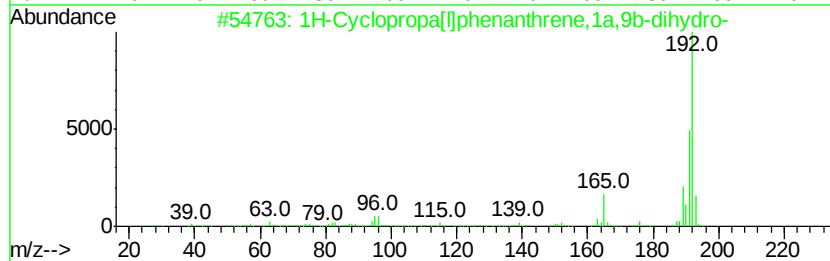
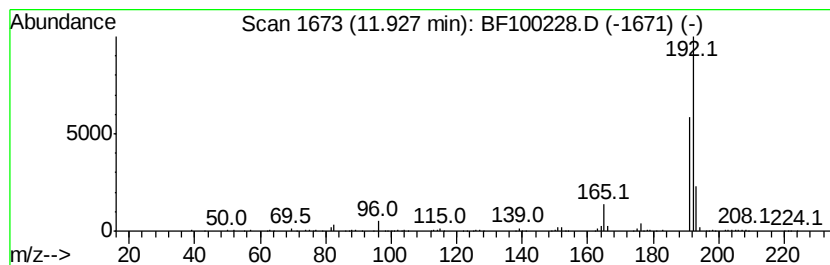
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	18.14 ng	498192	Phenanthrene-d10	11.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	91
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
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Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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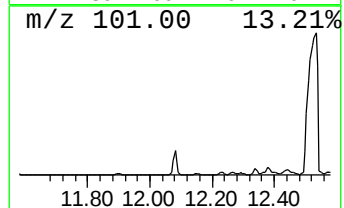
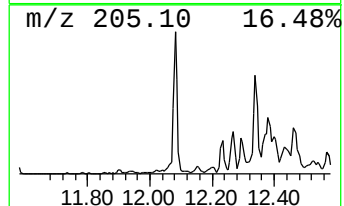
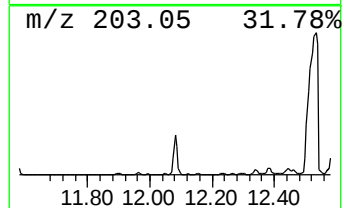
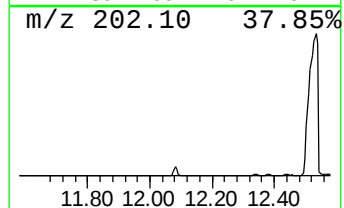
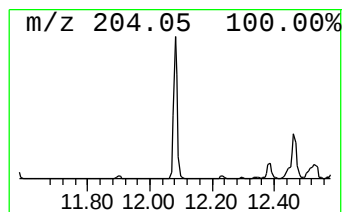
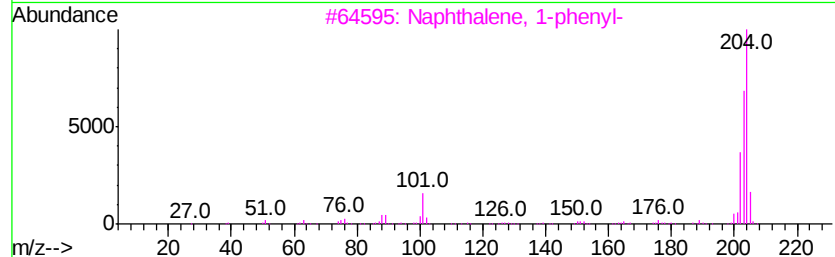
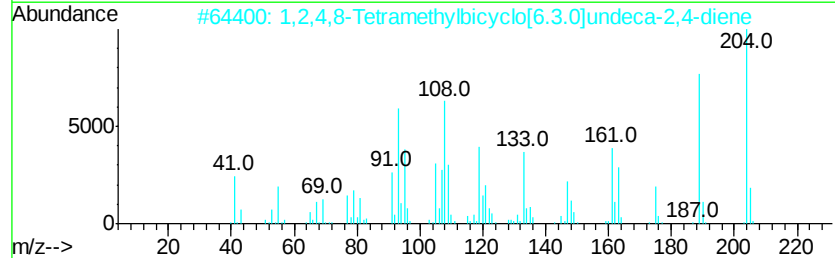
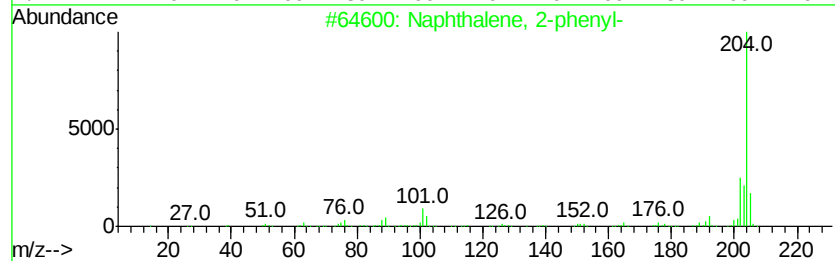
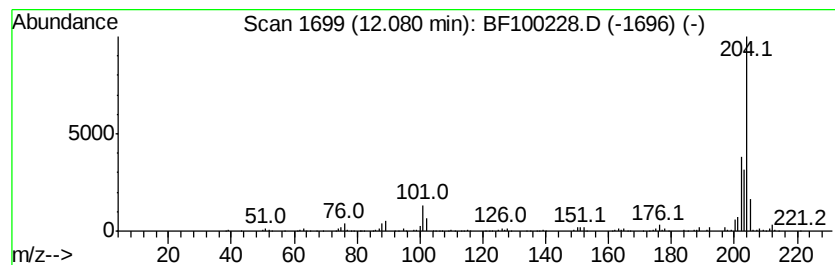
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	31.06 ng	852943	Phenanthrene-d10	11.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	86
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4		5,16[1',2':8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
5		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
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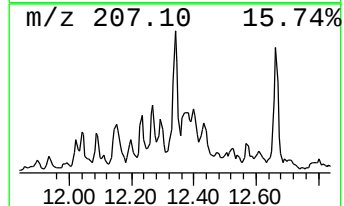
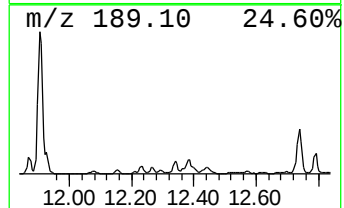
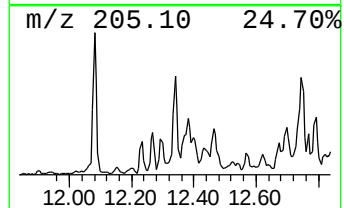
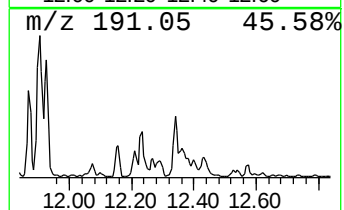
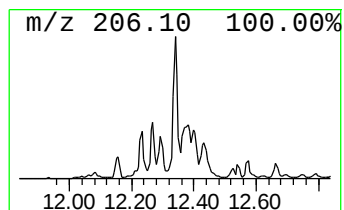
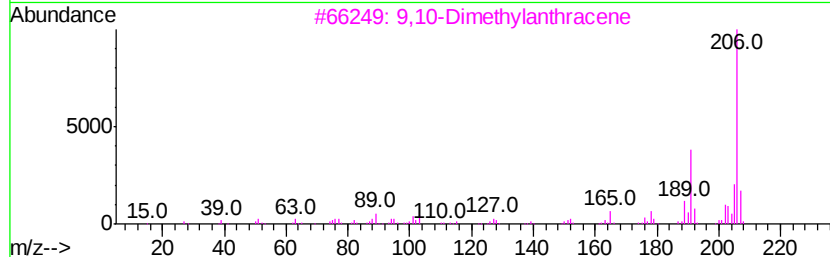
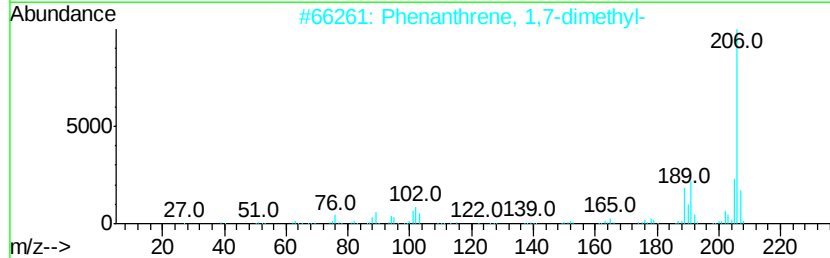
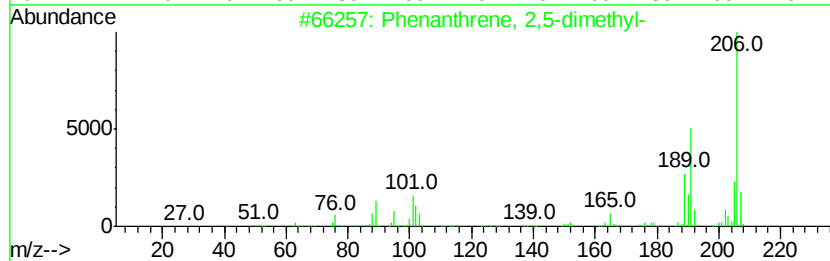
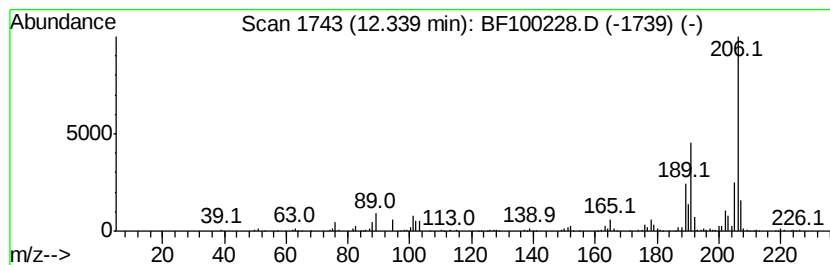
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.34	19.73 ng	541752	Phenanthrene-d10	11.29		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97	
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93	
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93	
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93	
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90	



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
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Sample : I6257-01 10X
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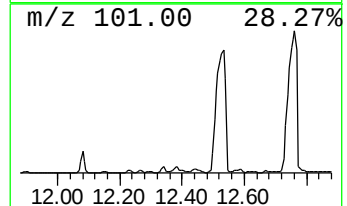
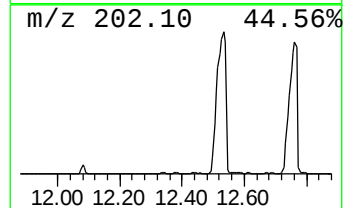
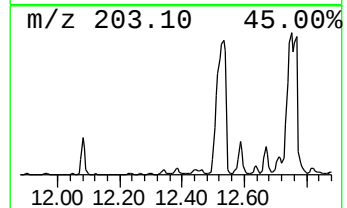
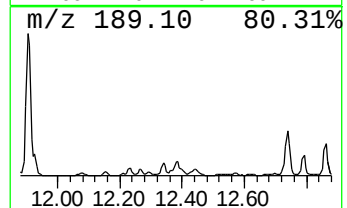
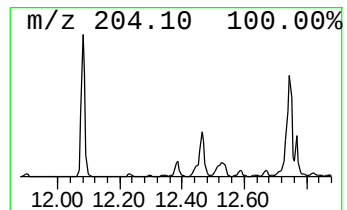
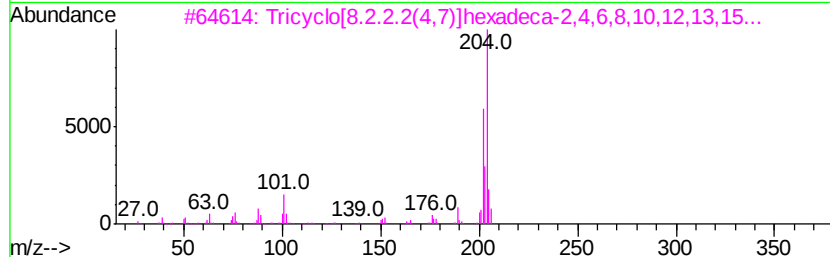
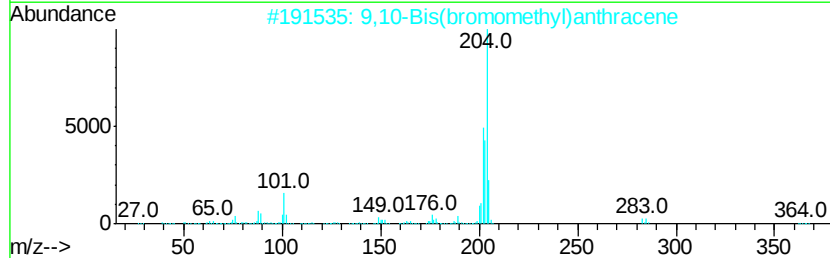
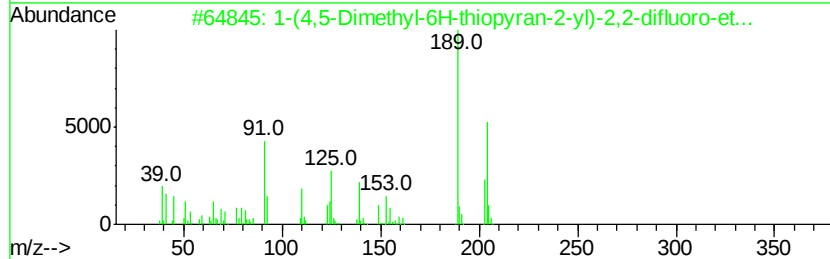
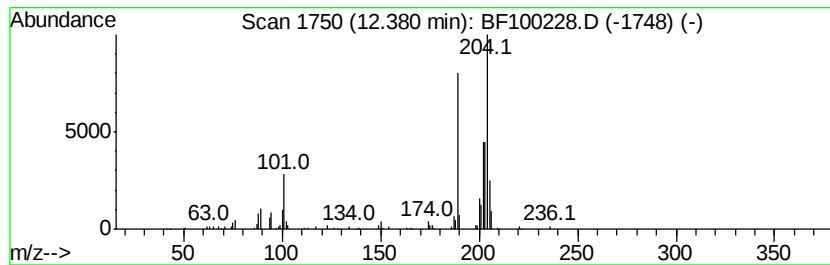
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 1-(4,5-Dimethyl-6H-thiopyra... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.38	10.34 ng	284038	Phenanthrene-d10	11.29	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4,5-Dimethyl-6H-thiopyran-2-yl)-2,2-difluoroethane	204	C9H10F2OS	1000318-25-0	53
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8,10,12,13,15-octa-1,3,5,7,9,11,13,15-octaene	204	C16H12	006572-60-7	43
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
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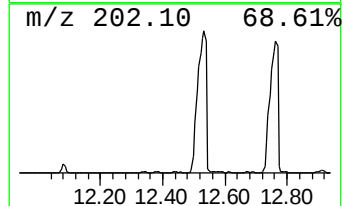
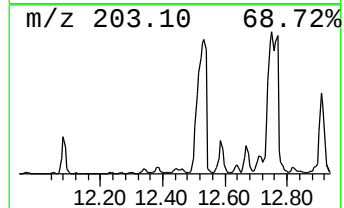
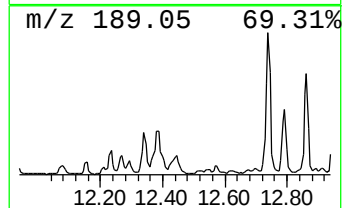
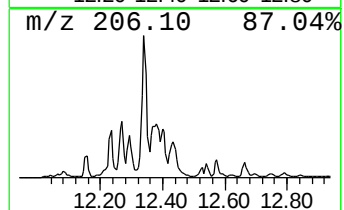
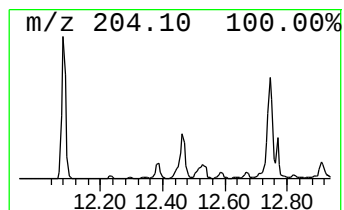
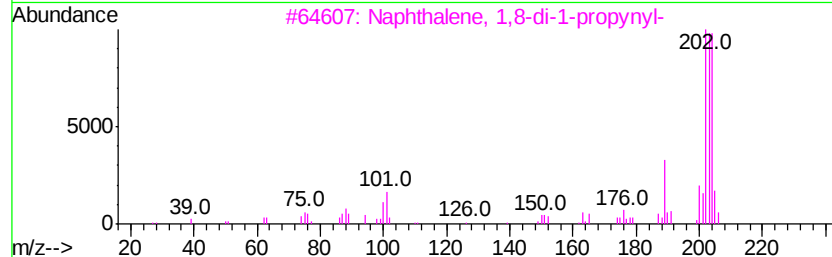
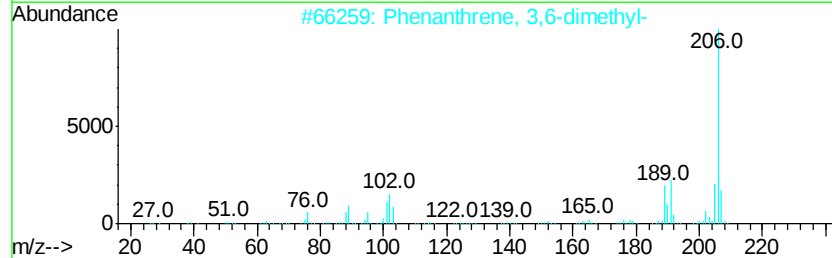
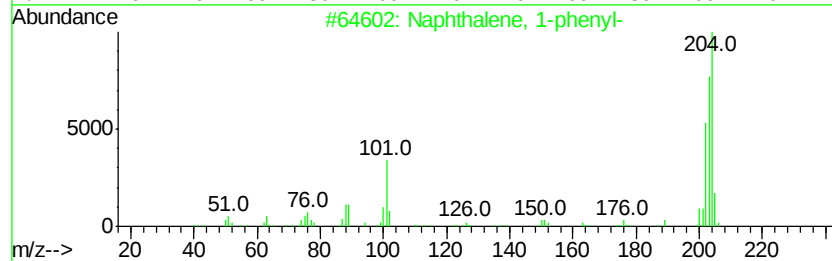
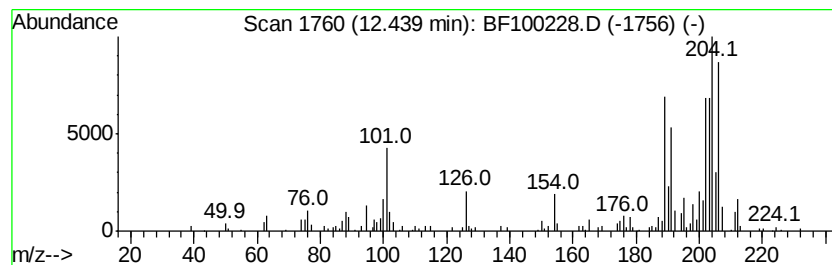
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ClientSampleId :
EPE-110-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Naphthalene, 1-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.44	9.91 ng	272075	Phenanthrene-d10		11.29	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
2		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	45
3		Naphthalene, 1,8-di-1-propynyl-	204	C16H12	022360-77-6	42
4		Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	35
5		Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	35



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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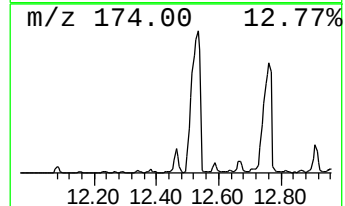
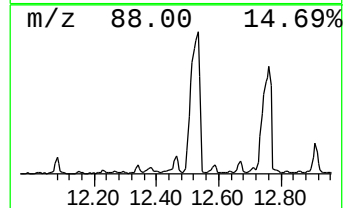
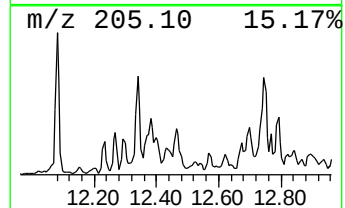
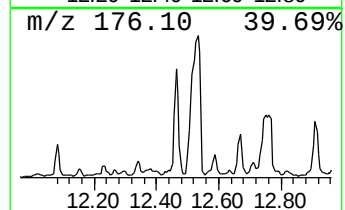
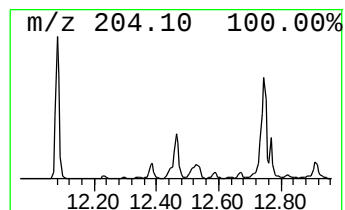
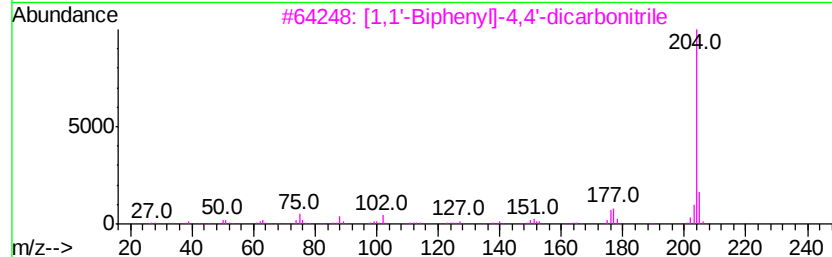
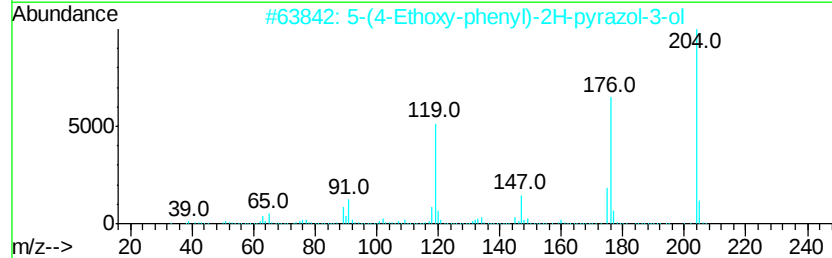
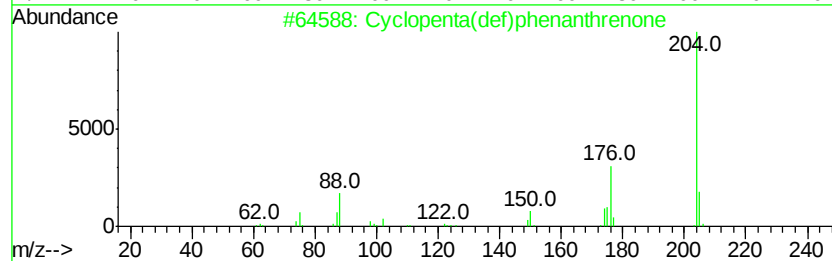
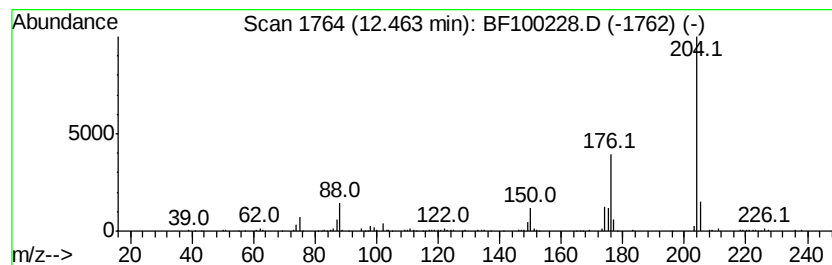
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	9.98 ng	274132	Phenanthrene-d10	11.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	59
3		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
4		4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	45
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42



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Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EPE-110-1(0-5)

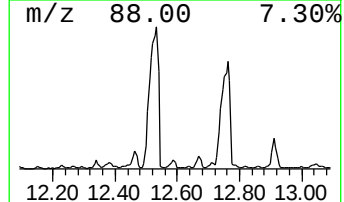
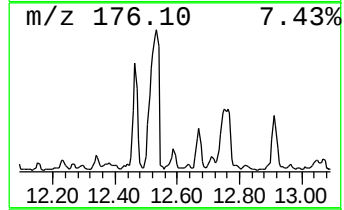
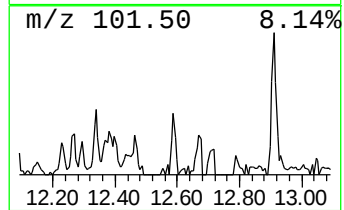
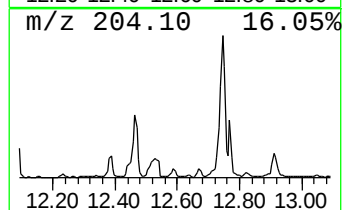
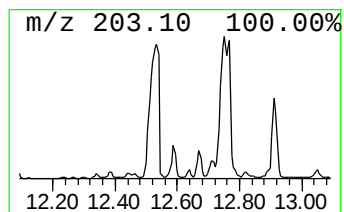
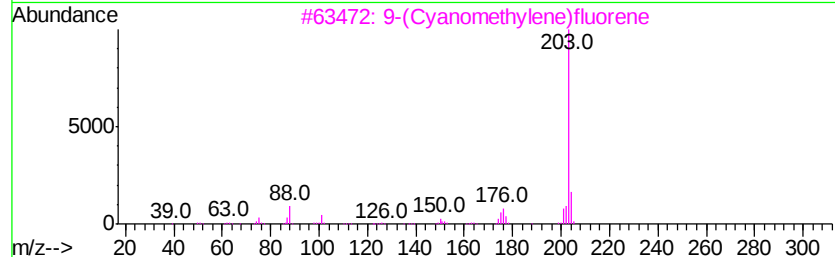
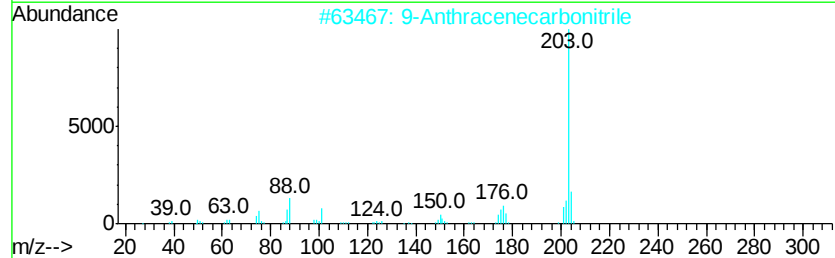
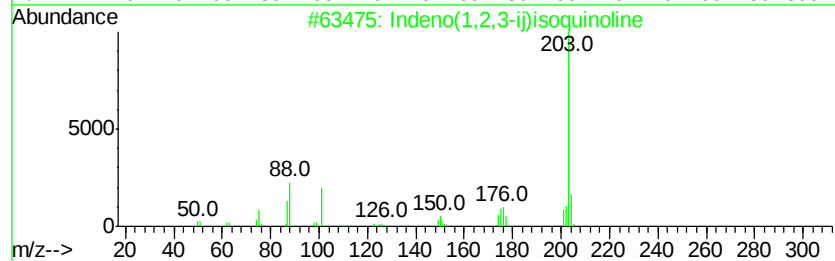
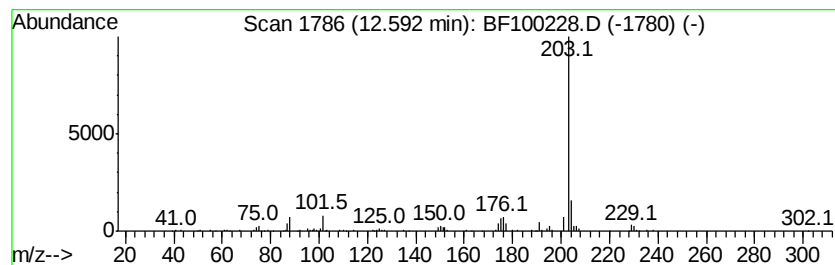
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Indeno(1,2,3-ij)isoquinoline Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	11.15 ng	306062	Phenanthrene-d10	11.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indeno(1,2,3-ii)isoquinoline	203	C15H9N	000206-56-4	93
2		9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	93
3		9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	91
4		Naphtho(2,1,8-def)quinoline	203	C15H9N	000313-80-4	90
5		9-Cyanophenanthrene	203	C15H9N	002510-55-6	90



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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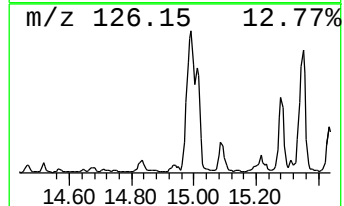
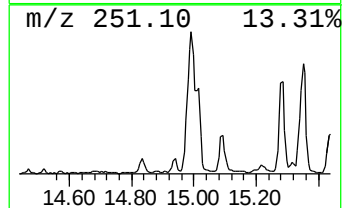
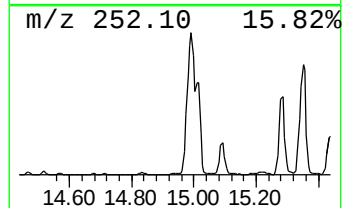
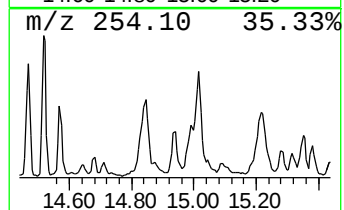
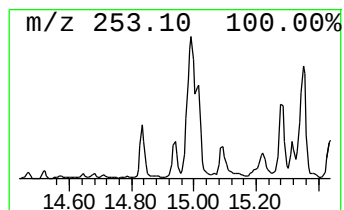
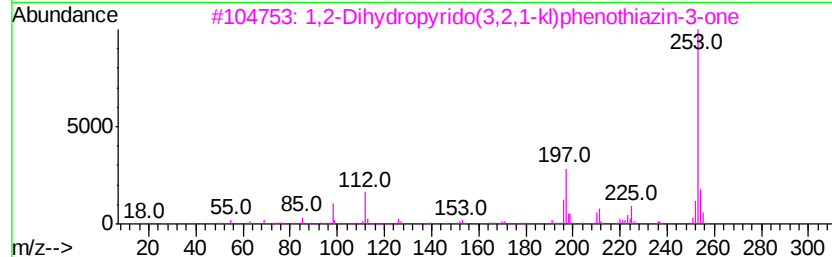
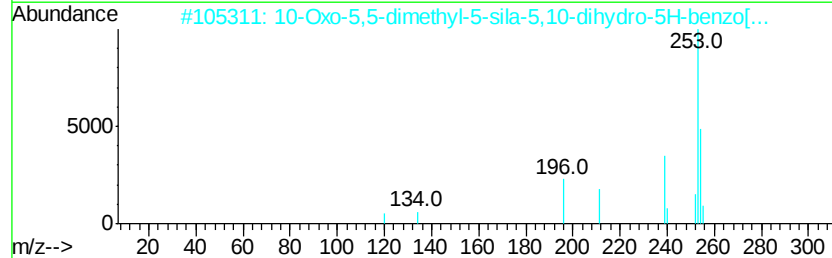
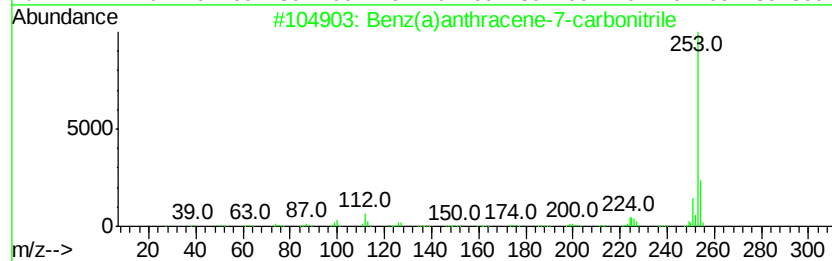
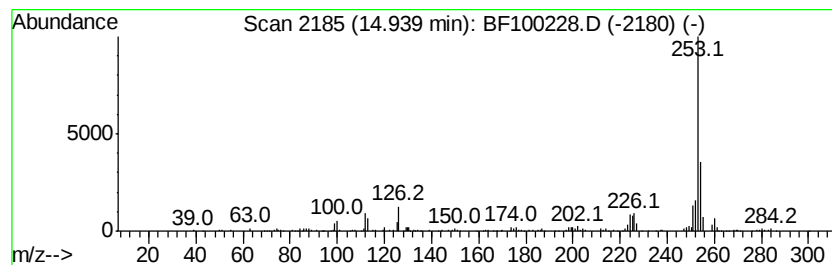
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Benz(a)anthracene-7-carboni... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.94	9.84 ng	189047	Perylene-d12	15.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	76
2		10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	53
3		1,2-Dihydroprido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	53
4		1,2'-Binaphthalene	254	C20H14	004325-74-0	43
5		2H-1,4-Benzothiazin-2-acetic aci...	253	C11H11N02S2	002832-88-4	43



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
Data File : BF100228.D
Acq On : 5 Nov 2017 17:12
Operator : SJ/JU
Sample : I6257-01 10X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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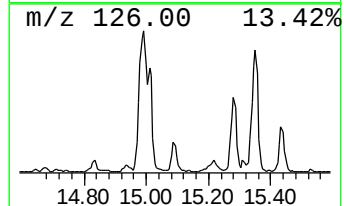
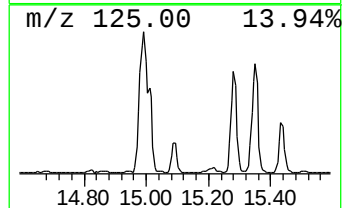
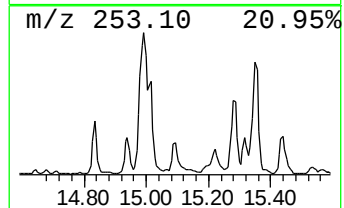
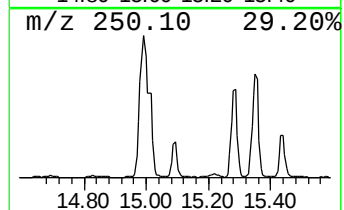
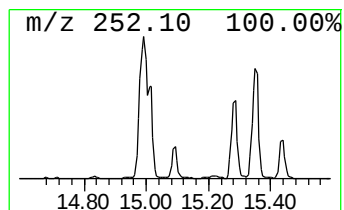
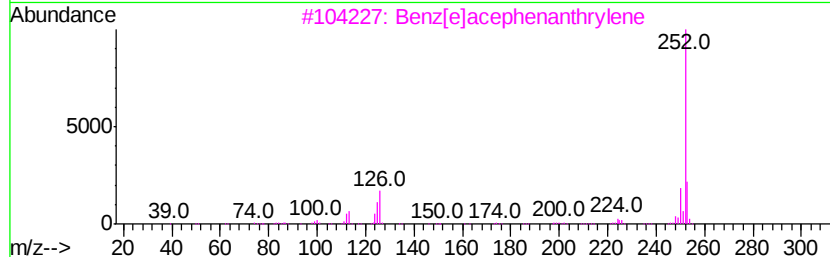
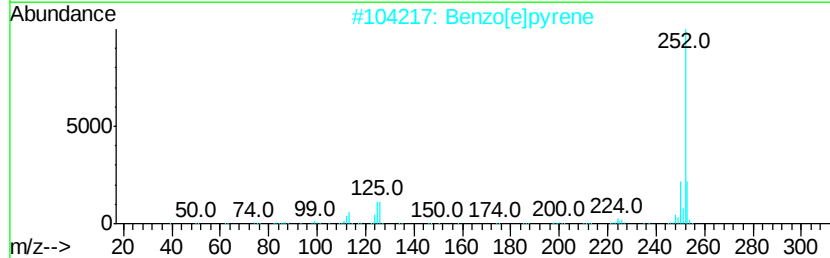
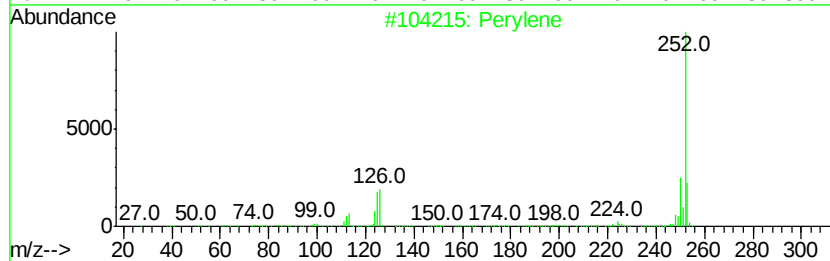
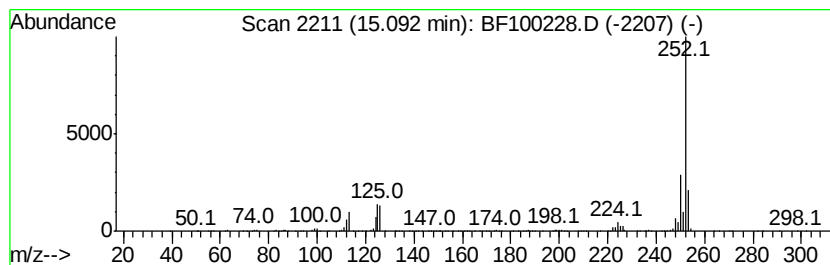
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Perylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.09	27.10 ng	520422	Perylene-d12	15.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	96
2		Benzo[e]pyrene	252	C20H12	000192-97-2	95
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
4		Benzo[a]pyrene	252	C20H12	000050-32-8	93
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	91



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Data File : BF100228.D
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Operator : SJ/JU
Sample : I6257-01 10X
Misc :
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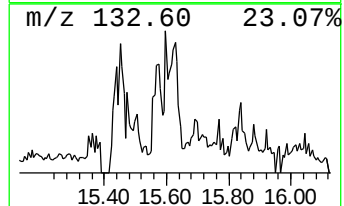
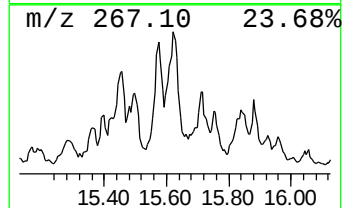
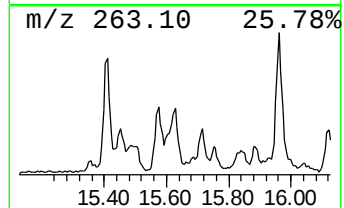
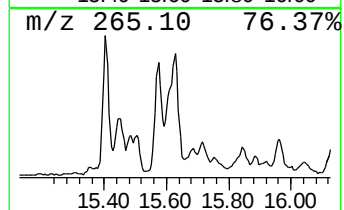
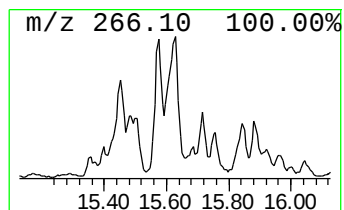
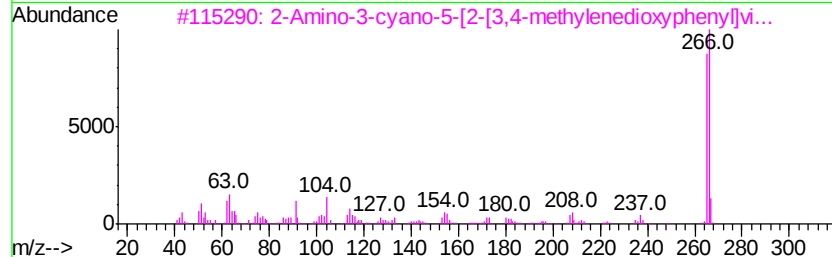
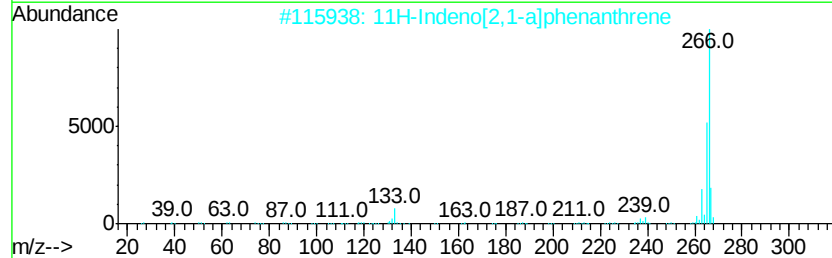
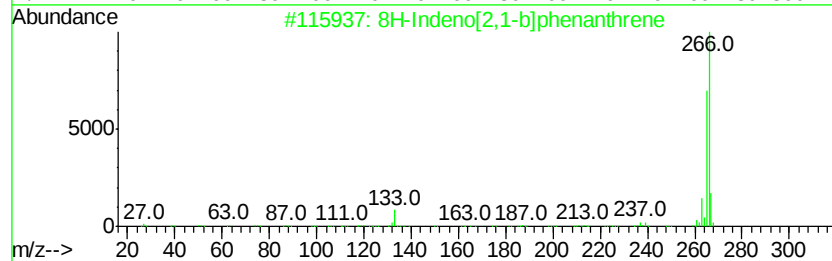
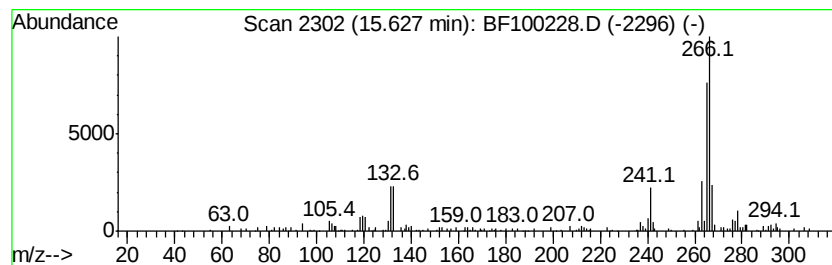
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.63	14.35 ng	275657	Perylene-d12	15.40		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	64	
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	50	
3	2-Amino-3-cyano-5-[2-[3,4-methyl...]	266	C14H10N4O2	1000252-72-1	49	
4	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	45	
5	4,6-Dimethyl-4'-hydroxy-2-benzyl...	266	C17H14O3	002567-73-9	40	



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110517\
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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EPE-110-1(0-5)

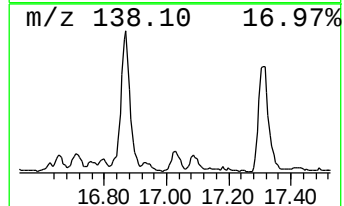
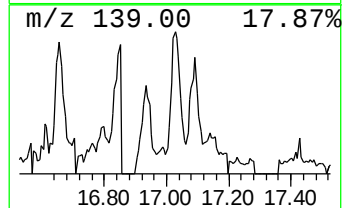
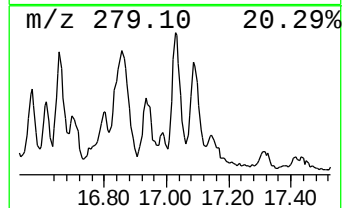
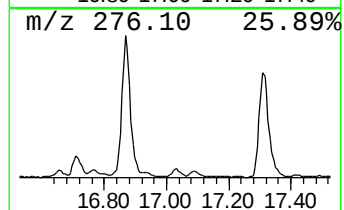
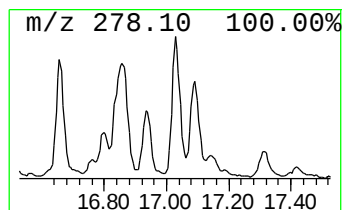
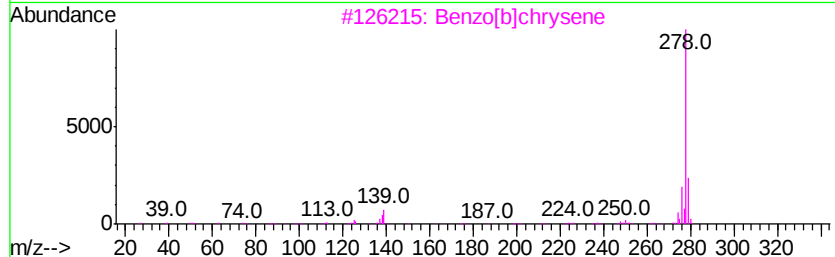
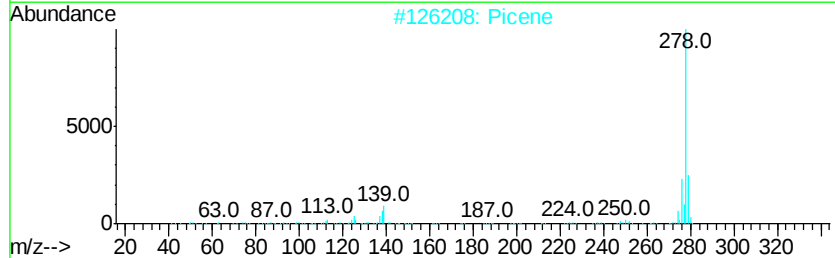
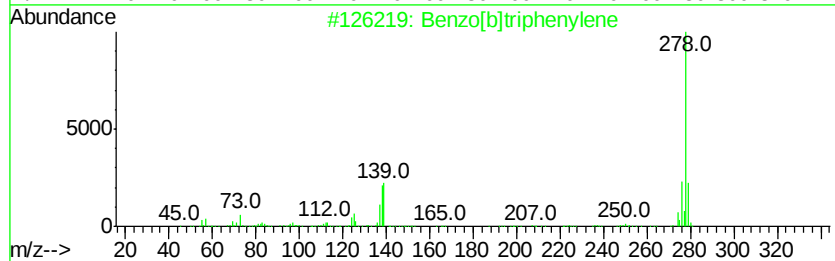
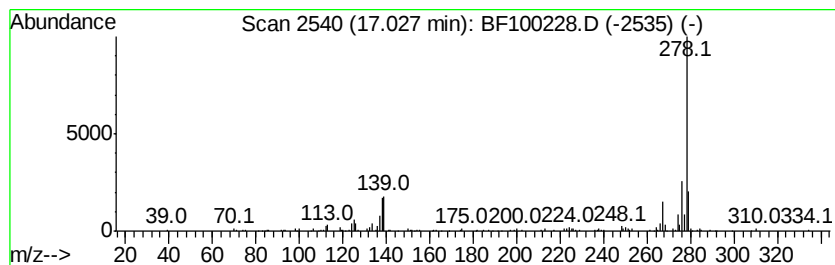
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 Benzo[b]triphenylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	12.88 ng	247329	Perylene-d12	15.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2		Picene	278	C22H14	000213-46-7	93
3		Benzo[b]chrysene	278	C22H14	000214-17-5	89
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89
5		Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	89



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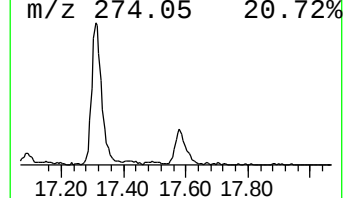
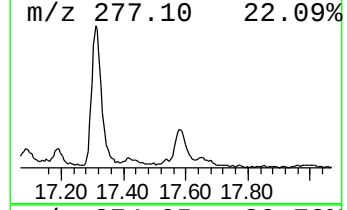
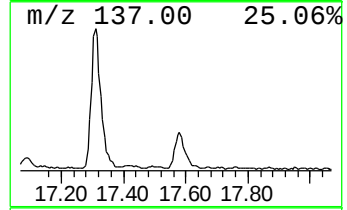
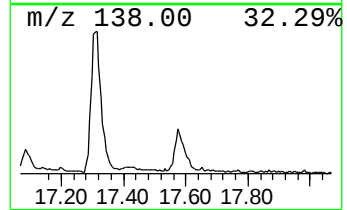
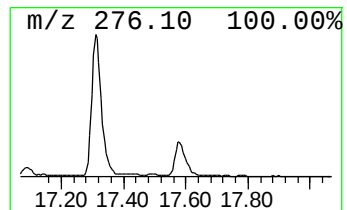
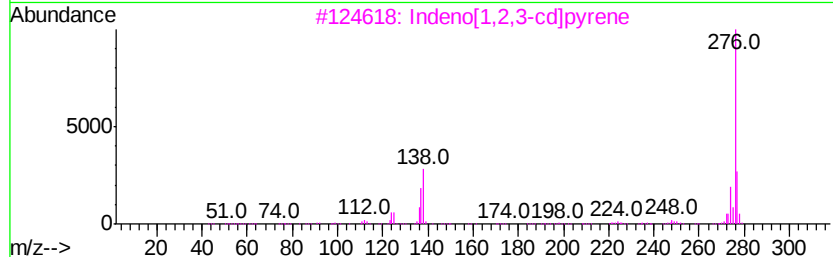
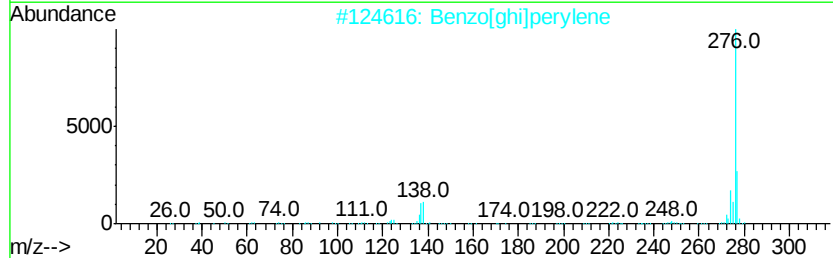
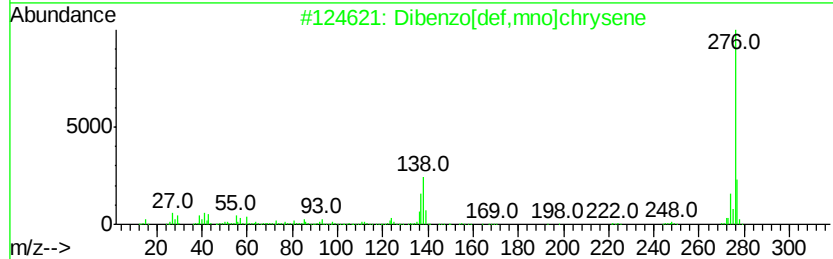
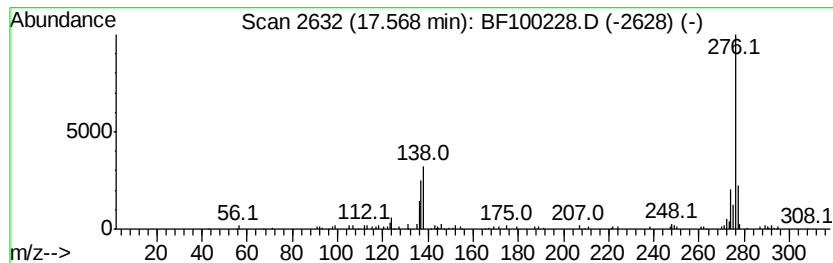
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	10.69 ng	205398	Perylene-d12	15.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5		Oxalic acid, diamide, N,N'-bis(4...	276	C14H10F2N2O2	1000309-42-9	50



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF110517\
 Data File : BF100228.D
 Acq On : 5 Nov 2017 17:12
 Operator : SJ/JU
 Sample : I6257-01 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EPE-110-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphtho[2,1-b]thi...	11.19	14.3	ng	393025	4	11.29	549231	20.0
1-Methyldibenzoth...	11.62	11.8	ng	324767	4	11.29	549231	20.0
Phenanthrene, 2-m...	11.79	27.1	ng	744939	4	11.29	549231	20.0
4H-Cyclopenta[def...	11.90	60.7	ng	1667780	4	11.29	549231	20.0
1H-Cyclopropa[l]p...	11.93	18.1	ng	498192	4	11.29	549231	20.0
Naphthalene, 2-ph...	12.08	31.1	ng	852943	4	11.29	549231	20.0
Phenanthrene, 2,5...	12.34	19.7	ng	541752	4	11.29	549231	20.0
1-(4,5-Dimethyl-6...	12.38	10.3	ng	284038	4	11.29	549231	20.0
Naphthalene, 1-ph...	12.44	9.9	ng	272075	4	11.29	549231	20.0
Cyclopenta(def)ph...	12.46	10.0	ng	274132	4	11.29	549231	20.0
Indeno(1,2,3-ij)i...	12.59	11.2	ng	306062	4	11.29	549231	20.0
Benz(a)anthracene...	14.94	9.8	ng	189047	6	15.40	384110	20.0
Perylene	15.09	27.1	ng	520422	6	15.40	384110	20.0
8H-Indeno[2,1-b]p...	15.63	14.4	ng	275657	6	15.40	384110	20.0
Benzo[b]triphenylene	17.03	12.9	ng	247329	6	15.40	384110	20.0
Dibenzo[def,mno]c...	17.57	10.7	ng	205398	6	15.40	384110	20.0