

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101995.D
 Acq On : 10 Jan 2018 22:36
 Operator : SJ/JU
 Sample : J1076-12 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-096613-02

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-BF010918.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	6.728	785	789	792	rBV	1569562	1321876	27.26%	2.011%
2	6.986	829	833	836	rBV	524871	460834	9.50%	0.701%
3	7.757	959	964	967	rBV3	168938	221630	4.57%	0.337%
4	7.792	967	970	978	rVB	169334	223262	4.60%	0.340%
5	8.010	1002	1007	1008	rBV	2027168	1894080	39.07%	2.881%
6	8.033	1008	1011	1014	rVV	5241667	4848531	100.00%	7.375%
7	8.080	1014	1019	1025	rVB	349589	278107	5.74%	0.423%
8	8.722	1123	1128	1131	rBV	3238249	2651872	54.69%	4.034%
9	8.822	1139	1145	1148	rVB	2314343	2053631	42.36%	3.124%
10	9.186	1201	1207	1211	rVV	533101	523917	10.81%	0.797%
11	9.257	1216	1219	1220	rBV	140015	133449	2.75%	0.203%
12	9.280	1220	1223	1228	rVB2	251980	351883	7.26%	0.535%
13	9.351	1228	1235	1238	rBV	854442	1155388	23.83%	1.758%
14	9.380	1238	1240	1243	rVB	232829	161717	3.34%	0.246%
15	9.422	1243	1247	1249	rBV	1283598	1222337	25.21%	1.859%
16	9.445	1249	1251	1255	rVB2	824163	695318	14.34%	1.058%
17	9.486	1255	1258	1261	rVB	170604	153071	3.16%	0.233%
18	9.533	1263	1266	1268	rBV	547379	486014	10.02%	0.739%
19	9.622	1276	1281	1284	rBV	1262741	1061705	21.90%	1.615%
20	9.763	1298	1305	1308	rBV2	2000173	2053194	42.35%	3.123%
21	9.792	1308	1310	1314	rVV2	437206	421959	8.70%	0.642%
22	9.869	1319	1323	1327	rBV2	282467	318725	6.57%	0.485%
23	9.963	1332	1339	1343	rVV	855478	849960	17.53%	1.293%
24	10.004	1343	1346	1348	rBV	329814	273457	5.64%	0.416%
25	10.074	1354	1358	1361	rBV2	307859	357839	7.38%	0.544%
26	10.104	1361	1363	1365	rVB	291465	190241	3.92%	0.289%
27	10.163	1369	1373	1375	rBV3	208387	272393	5.62%	0.414%
28	10.186	1375	1377	1380	rVV2	133106	178236	3.68%	0.271%
29	10.257	1384	1389	1391	rBV4	156052	201747	4.16%	0.307%
30	10.310	1394	1398	1403	rVB	1680289	1643025	33.89%	2.499%
31	10.416	1414	1416	1419	rVB2	224463	176826	3.65%	0.269%
32	10.463	1421	1424	1427	rBV	256795	229066	4.72%	0.348%
33	10.527	1432	1435	1436	rBV	342680	262125	5.41%	0.399%
34	10.669	1456	1459	1466	rVB	535489	627901	12.95%	0.955%

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35	10.851	1485	1490	1493	rBV	446173	585018	12.07%	0.890%
36	10.880	1493	1495	1501	rVB	348171	319238	6.58%	0.486%
37	10.933	1501	1504	1508	rBV2	248641	262602	5.42%	0.399%
38	11.051	1522	1524	1528	rVB2	168759	147515	3.04%	0.224%
39	11.092	1528	1531	1533	rBV2	131889	136560	2.82%	0.208%
40	11.116	1533	1535	1537	rVV	551262	459685	9.48%	0.699%
41	11.139	1537	1539	1547	rVB	1187703	1102588	22.74%	1.677%
42	11.245	1553	1557	1559	rBV	1602362	1719455	35.46%	2.616%
43	11.274	1559	1562	1564	rVV	4353483	3980714	82.10%	6.055%
44	11.321	1564	1570	1572	rVV	1137942	1103592	22.76%	1.679%
45	11.351	1572	1575	1578	rVV	223399	242085	4.99%	0.368%
46	11.398	1578	1583	1585	rVV3	156845	239293	4.94%	0.364%
47	11.474	1593	1596	1598	rVV	324318	279667	5.77%	0.425%
48	11.545	1605	1608	1610	rVV	611639	544221	11.22%	0.828%
49	11.574	1610	1613	1618	rVB	531944	496602	10.24%	0.755%
50	11.657	1624	1627	1631	rVB	445443	472468	9.74%	0.719%
51	11.698	1631	1634	1636	rBV2	119802	142926	2.95%	0.217%
52	11.745	1638	1642	1644	rVV	995449	963900	19.88%	1.466%
53	11.774	1644	1647	1650	rVB	1239316	1013579	20.90%	1.542%
54	11.816	1650	1654	1657	rBV	321581	332575	6.86%	0.506%
55	11.857	1657	1661	1663	rVV	1269479	1335320	27.54%	2.031%
56	11.880	1663	1665	1670	rVB	659820	561731	11.59%	0.854%
57	11.951	1674	1677	1679	rBV2	420058	332281	6.85%	0.505%
58	11.974	1679	1681	1684	rVB	191048	154608	3.19%	0.235%
59	12.039	1689	1692	1694	rBV2	455018	384409	7.93%	0.585%
60	12.168	1712	1714	1716	rBV	152804	140988	2.91%	0.214%
61	12.215	1720	1722	1724	rBV	207711	199937	4.12%	0.304%
62	12.292	1731	1735	1738	rBV	600495	617419	12.73%	0.939%
63	12.333	1738	1742	1747	rVV2	450370	750708	15.48%	1.142%
64	12.386	1747	1751	1754	rVV2	201025	331411	6.84%	0.504%
65	12.457	1758	1763	1766	rVV	2228107	2079683	42.89%	3.164%
66	12.498	1768	1770	1775	rVV4	140821	240675	4.96%	0.366%
67	12.545	1775	1778	1781	rVV	351039	320995	6.62%	0.488%
68	12.604	1785	1788	1796	rVV3	279233	392259	8.09%	0.597%
69	12.680	1796	1801	1804	rVV	2245044	2496541	51.49%	3.798%
70	12.739	1808	1811	1814	rVV3	147343	171357	3.53%	0.261%
71	12.798	1818	1821	1823	rVV2	133061	141834	2.93%	0.216%

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72	12.833	1825	1827	1832	rVB2	151987	200744	4.14%	0.305%
73	12.898	1834	1838	1842	rBV3	228316	314946	6.50%	0.479%
74	12.986	1850	1853	1854	rVV2	192011	227277	4.69%	0.346%
75	13.004	1854	1856	1859	rVB	489008	484361	9.99%	0.737%
76	13.074	1861	1868	1871	rBV	510397	532278	10.98%	0.810%
77	13.110	1871	1874	1878	rVV2	338611	350511	7.23%	0.533%
78	13.204	1887	1890	1892	rVV	258074	226046	4.66%	0.344%
79	13.233	1892	1895	1899	rVB	285136	246046	5.07%	0.374%
80	13.621	1956	1961	1964	rBV	273107	331241	6.83%	0.504%
81	13.651	1964	1966	1968	rVV	169728	140889	2.91%	0.214%
82	13.874	1996	2004	2007	rBV2	1457914	2224642	45.88%	3.384%
83	13.898	2007	2008	2014	rVB	794921	704209	14.52%	1.071%
84	14.127	2045	2047	2055	rVB3	109765	138127	2.85%	0.210%
85	14.257	2065	2069	2073	rVV	239845	323217	6.67%	0.492%
86	14.351	2083	2085	2088	rVV	198350	182889	3.77%	0.278%
87	14.386	2088	2091	2092	rVV	150486	157071	3.24%	0.239%
88	14.404	2092	2094	2098	rVB2	179503	181071	3.73%	0.275%
89	14.892	2172	2177	2179	rBV	592343	876858	18.09%	1.334%
90	14.986	2190	2193	2197	rVB	198706	219997	4.54%	0.335%
91	15.174	2221	2225	2230	rVB	449080	521745	10.76%	0.794%
92	15.233	2230	2235	2240	rVV	780933	886667	18.29%	1.349%
93	15.298	2241	2246	2248	rVV	895843	1106611	22.82%	1.683%
94	15.321	2248	2250	2256	rVB2	222255	292712	6.04%	0.445%
95	15.815	2332	2334	2343	rVB2	106327	165073	3.40%	0.251%
96	16.668	2472	2479	2487	rVB2	294339	587014	12.11%	0.893%
97	16.886	2512	2516	2522	rBV2	68171	132101	2.72%	0.201%
98	17.080	2542	2549	2559	rBV	254584	514634	10.61%	0.783%
99	17.297	2581	2586	2591	rVB	104379	190146	3.92%	0.289%
100	19.350	2927	2935	2943	rBV5	41818	128885	2.66%	0.196%

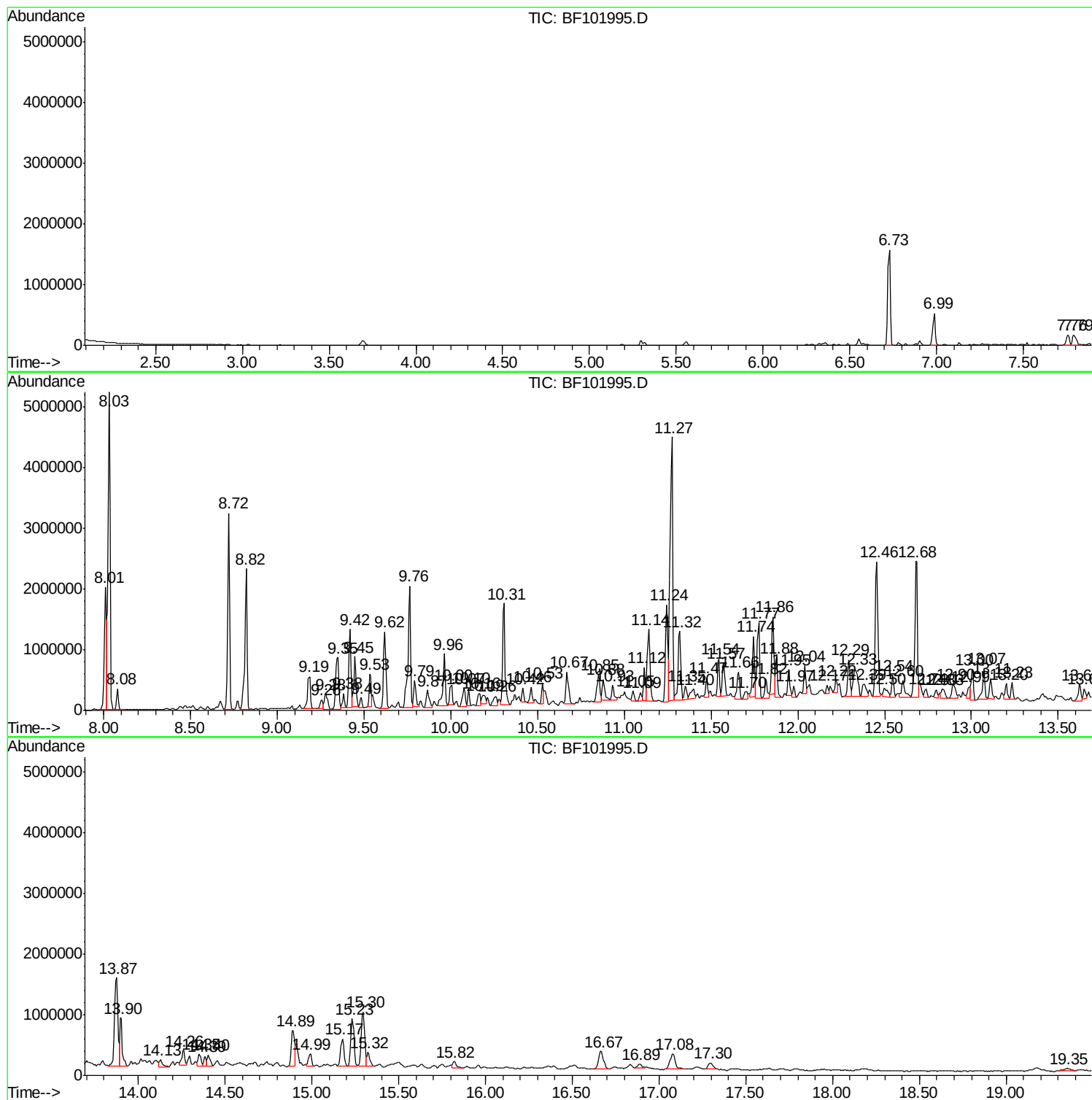
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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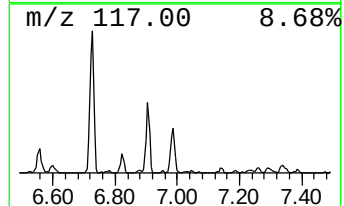
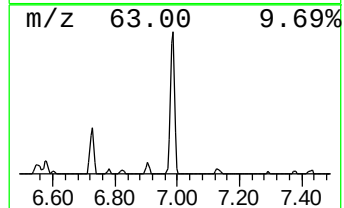
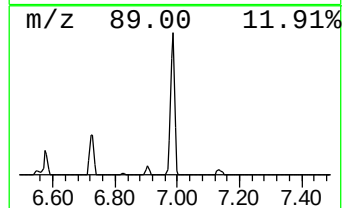
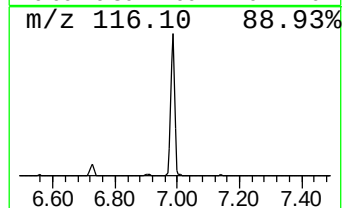
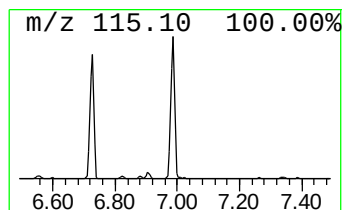
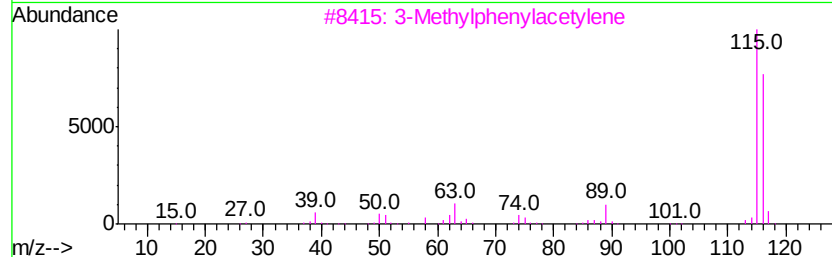
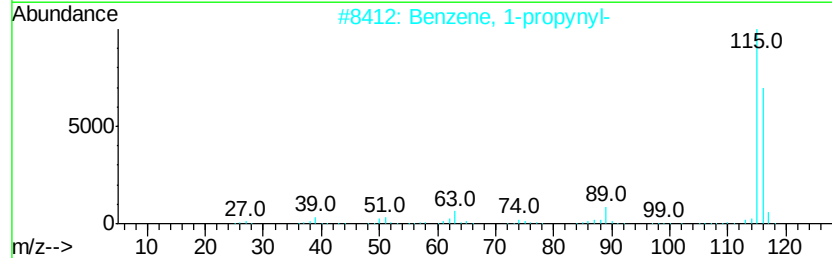
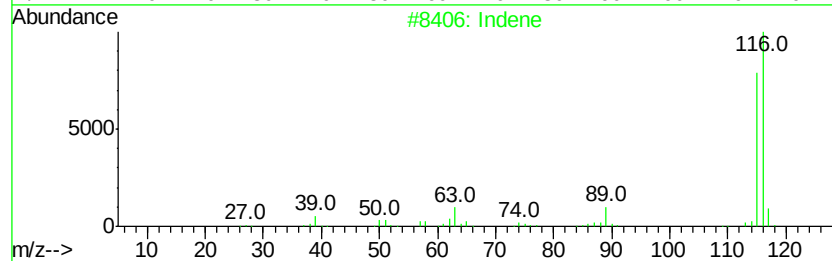
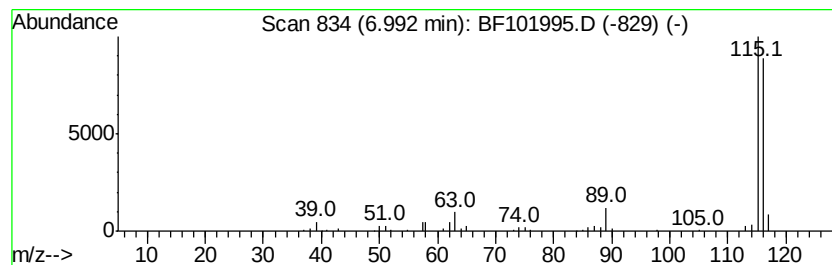
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Indene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
6.99	6.97 ng	460834	1,4-Dichlorobenzene-d4	6.73	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	97
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	95
3	3-Methylphenylacetylene	116	C9H8	000766-82-5	94
4	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	90
5	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	90



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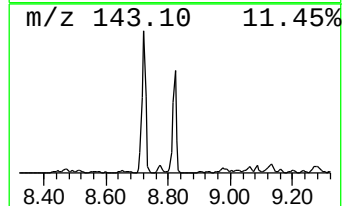
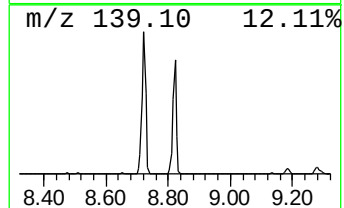
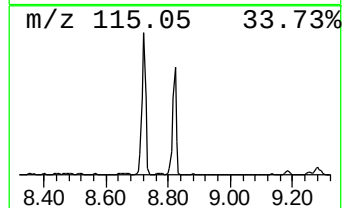
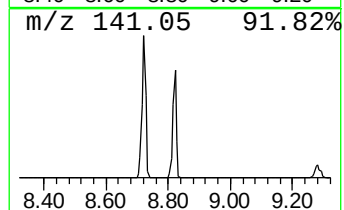
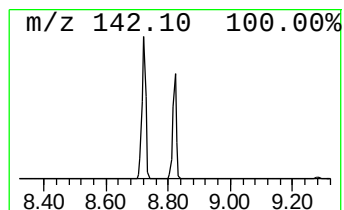
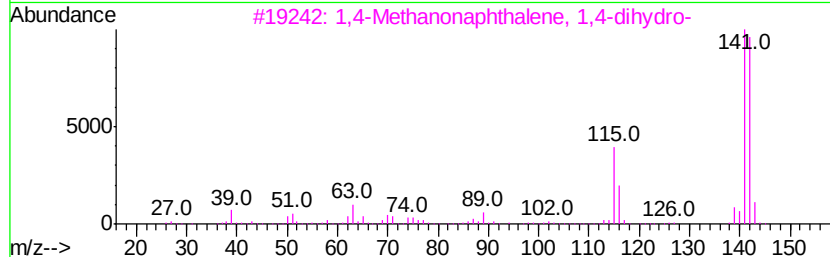
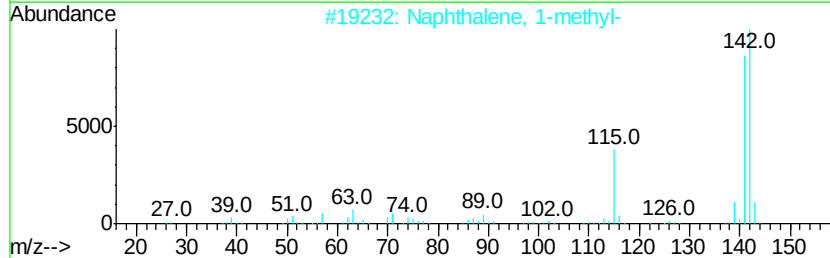
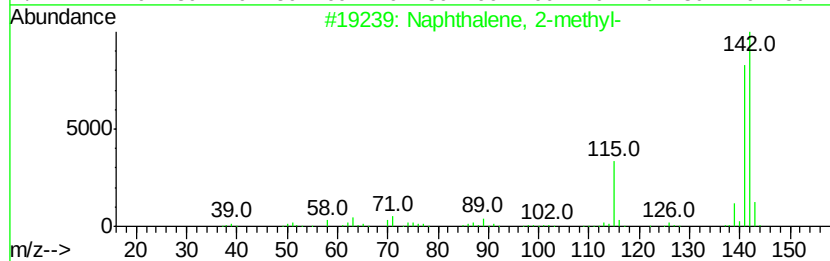
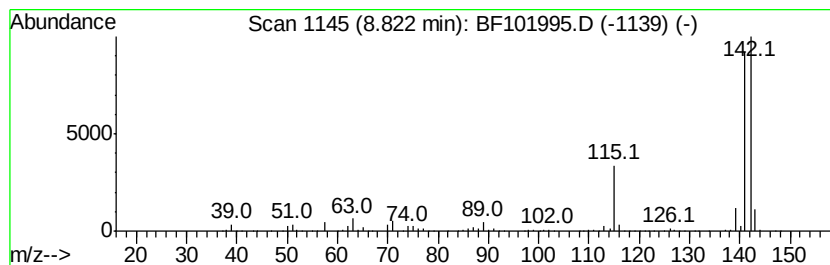
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.82	21.68 ng	2053630	Naphthalene-d8	8.01
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2-methyl-	142 C11H10	000091-57-6 96
2		Naphthalene, 1-methyl-	142 C11H10	000090-12-0 96
3		1,4-Methanonaphthalene, 1,4-dihv...	142 C11H10	004453-90-1 91
4		Benzocycloheptatriene	142 C11H10	000264-09-5 91
5		Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142 C11H10	002443-46-1 91



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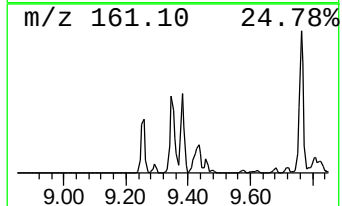
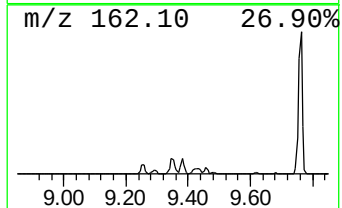
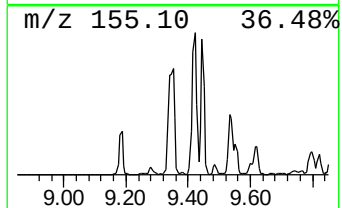
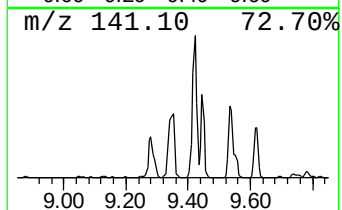
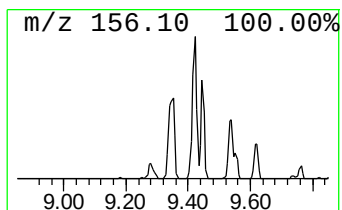
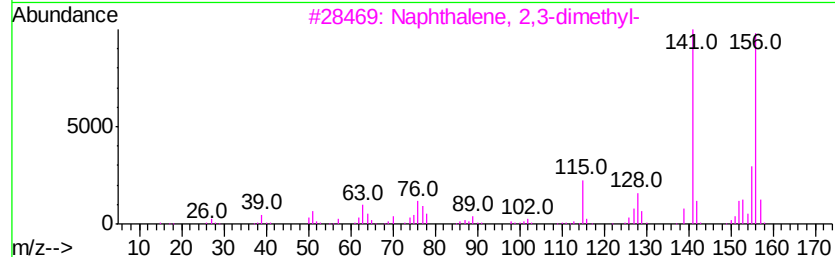
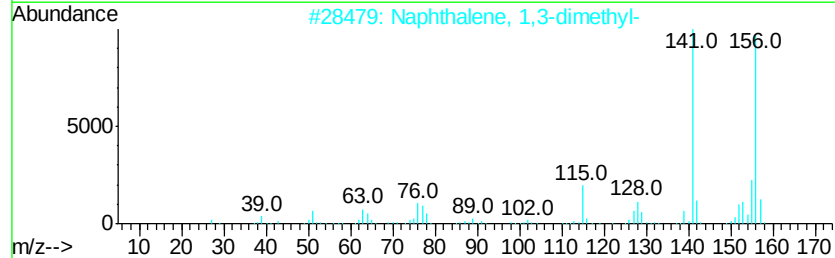
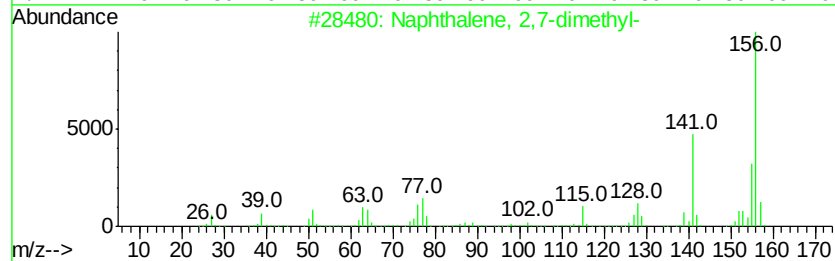
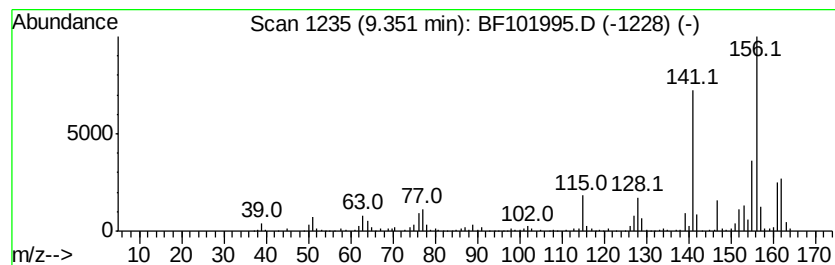
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	11.25 ng	1155390	Acenaphthene-d10	9.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
Acq On : 10 Jan 2018 22:36
Operator : SJ/JU
Sample : J1076-12 50X
Misc :
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Instrument :
BNA_F
ClientSampleId :
WC-096613-02

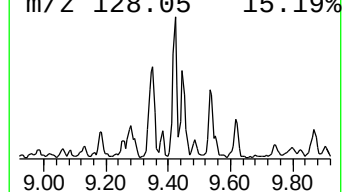
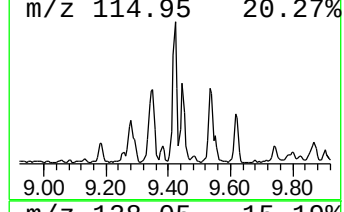
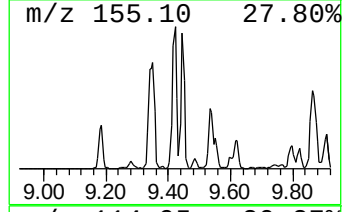
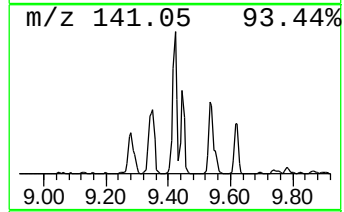
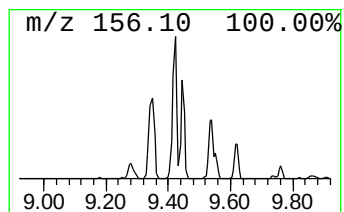
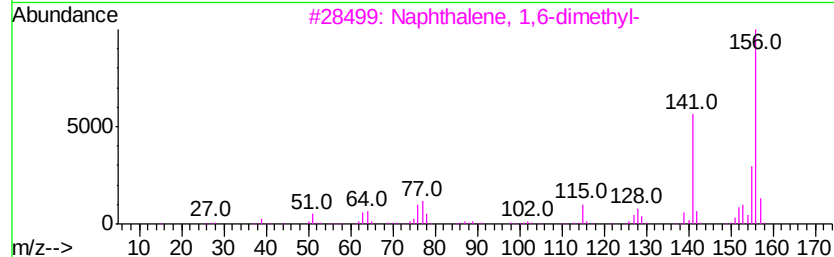
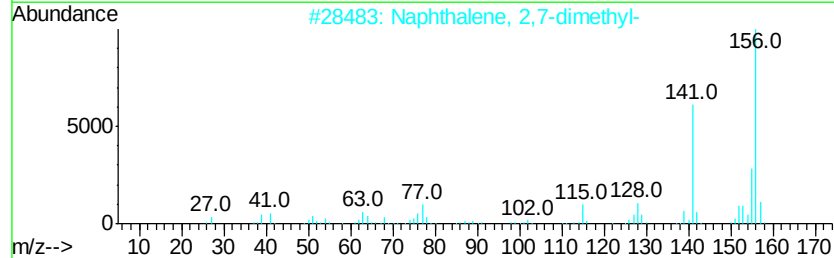
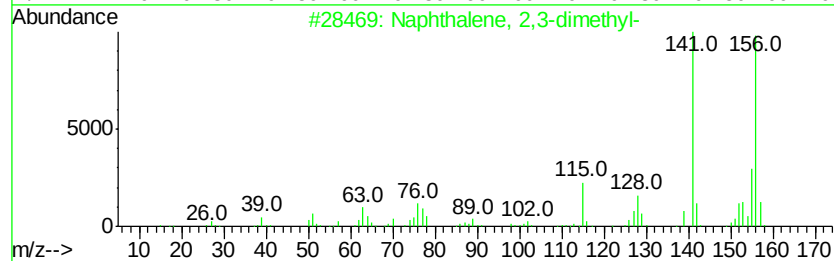
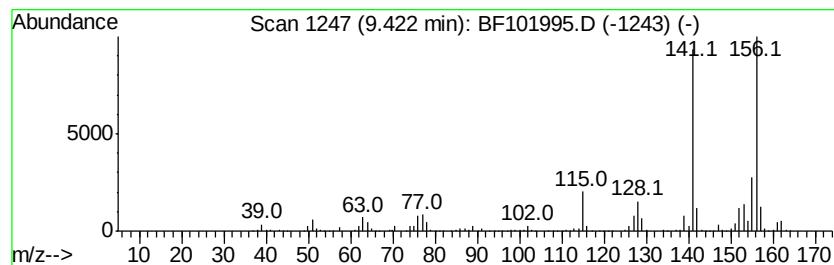
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	11.91 ng	1222340	Acenaphthene-d10	9.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
Acq On : 10 Jan 2018 22:36
Operator : SJ/JU
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Misc :
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Instrument :
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ClientSampleId :
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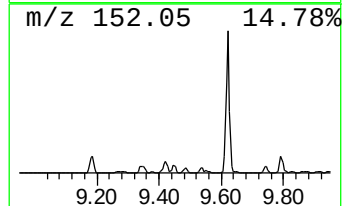
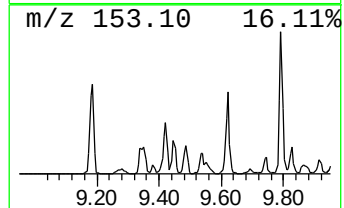
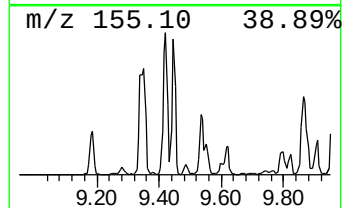
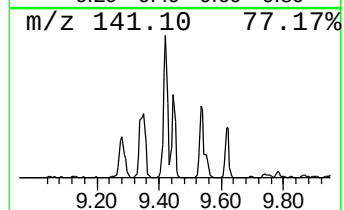
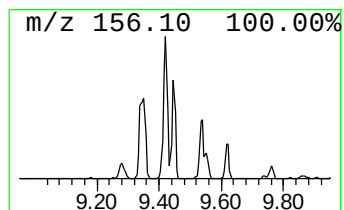
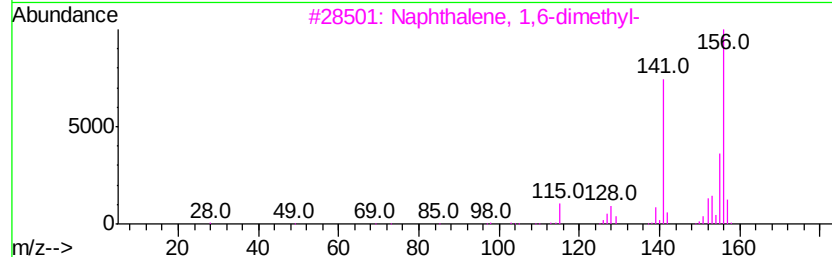
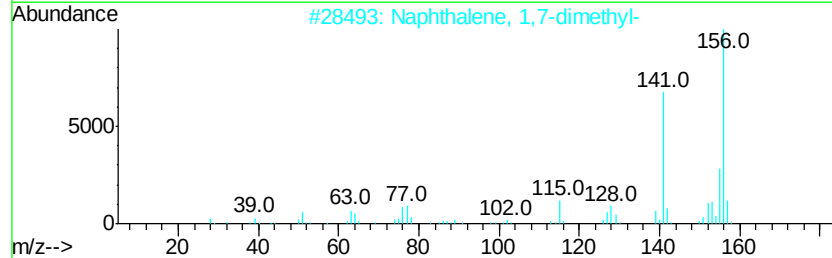
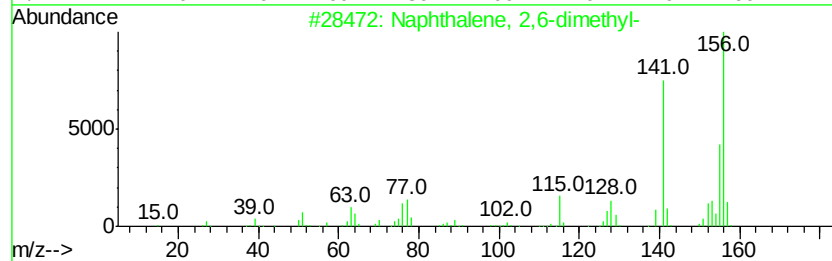
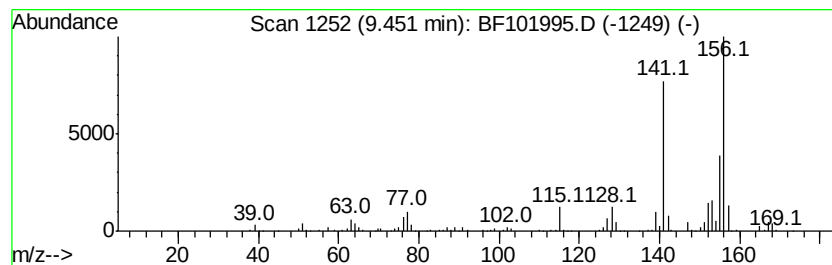
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	6.77 ng	695318	Acenaphthene-d10	9.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5		Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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Operator : SJ/JU
Sample : J1076-12 50X
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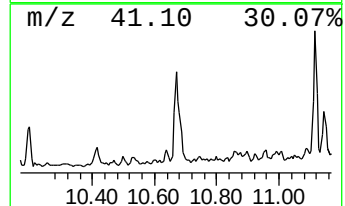
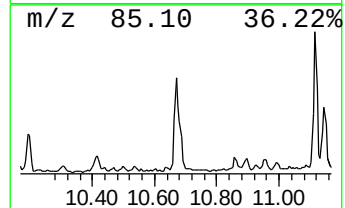
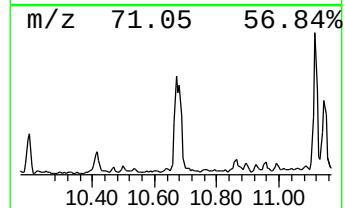
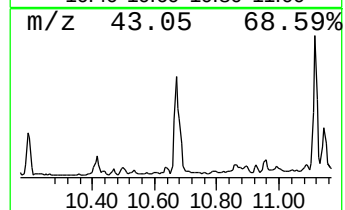
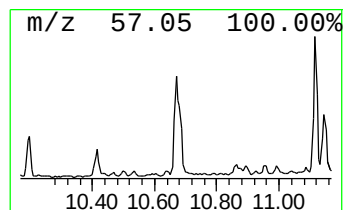
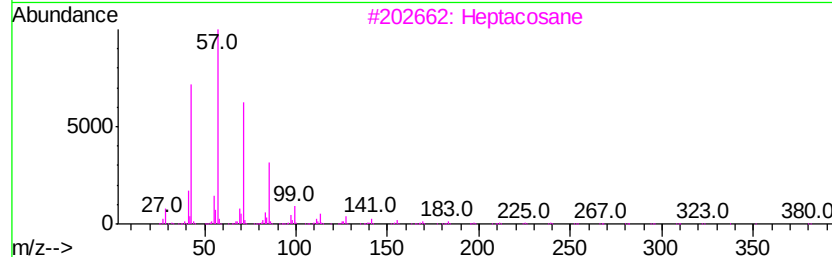
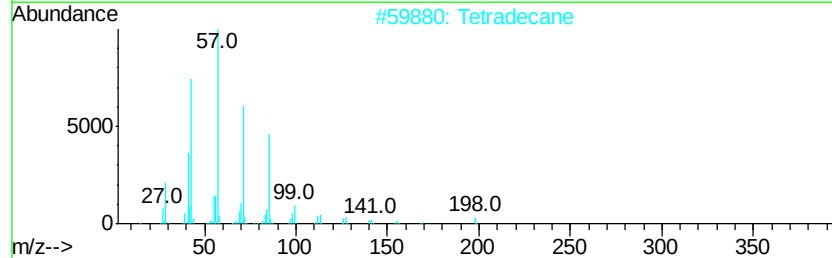
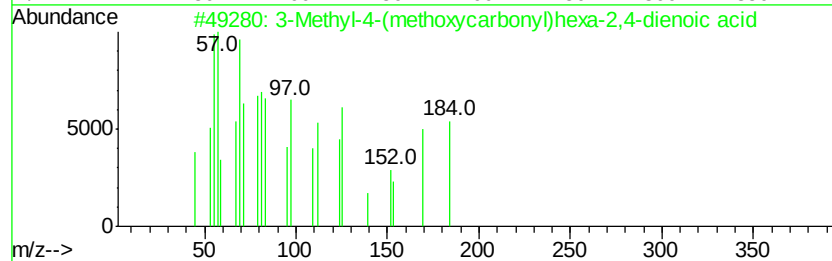
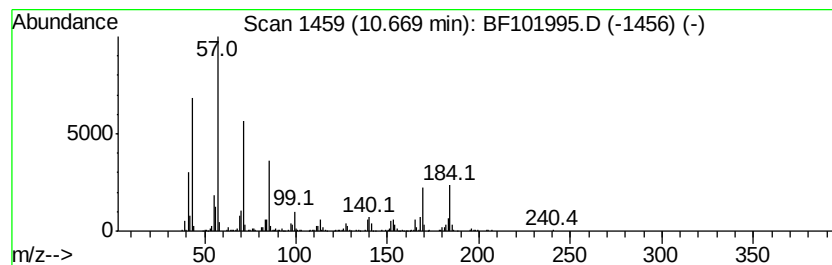
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 3-Methyl-4-(methoxycarbonyl... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.67	7.30 ng	627901	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methyl-4-(methoxycarbonyl)hexa...	184	C9H12O4	1000104-10-8	87
2	Tetradecane	198	C14H30	000629-59-4	60
3	Heptacosane	380	C27H56	000593-49-7	58
4	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	53
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	52



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
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Operator : SJ/JU
Sample : J1076-12 50X
Misc :
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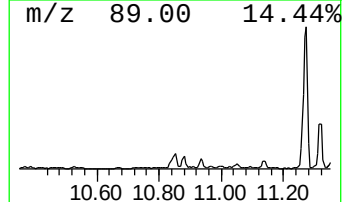
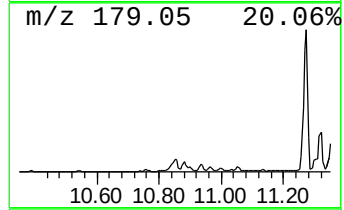
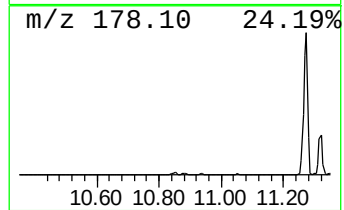
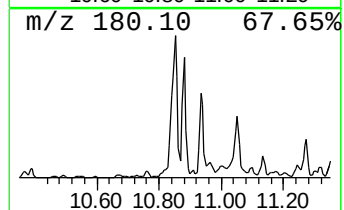
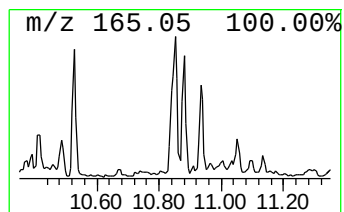
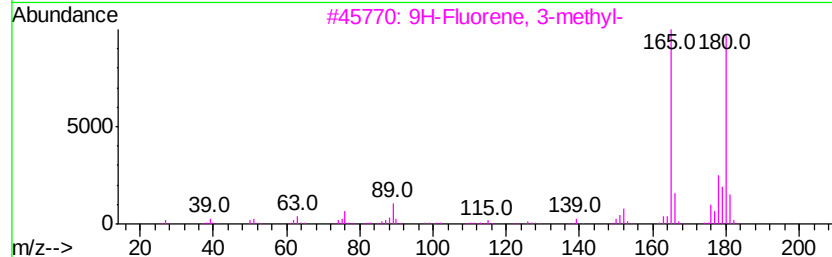
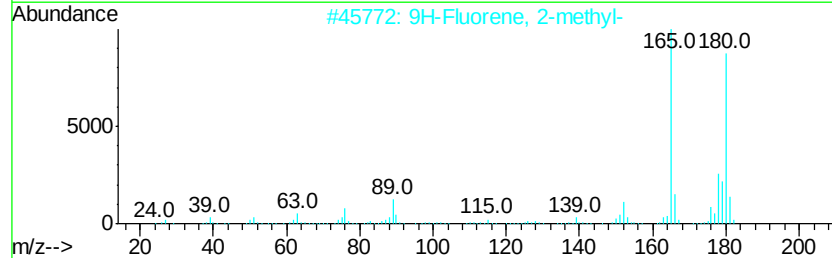
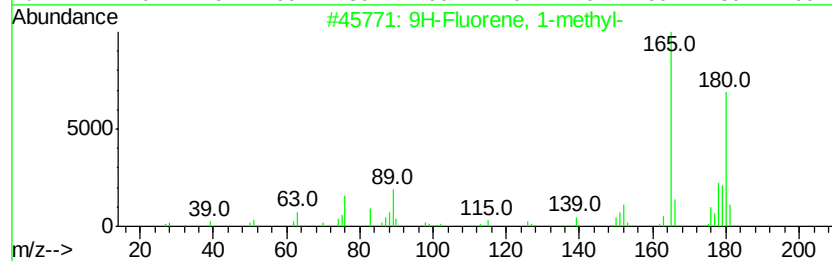
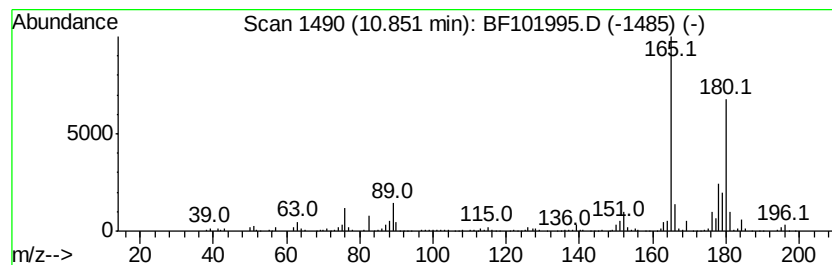
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.
10.85	6.80 ng	585018	Phenanthrene-d10		11.24
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	98
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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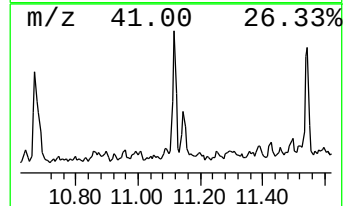
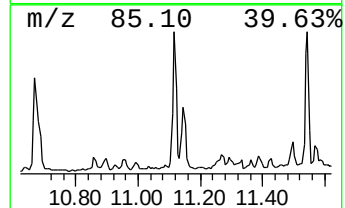
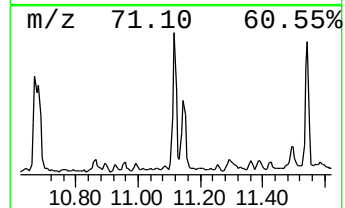
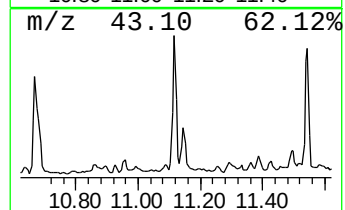
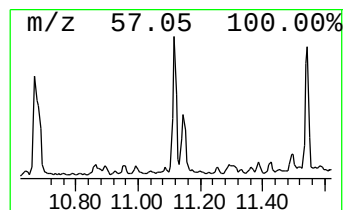
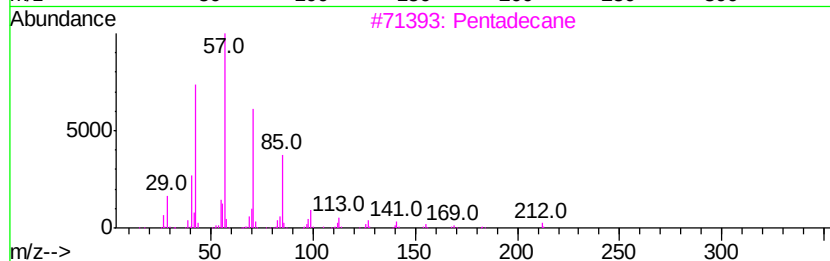
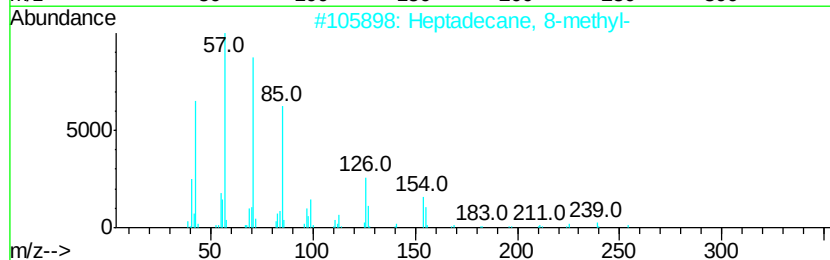
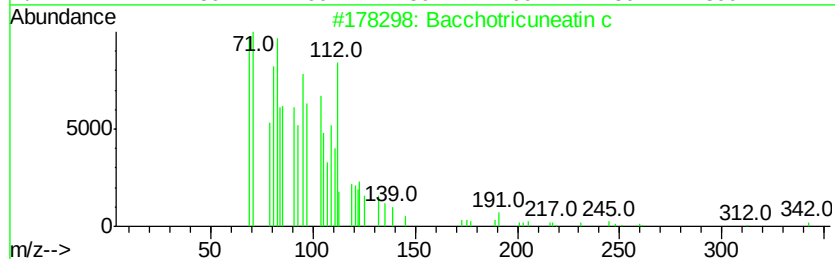
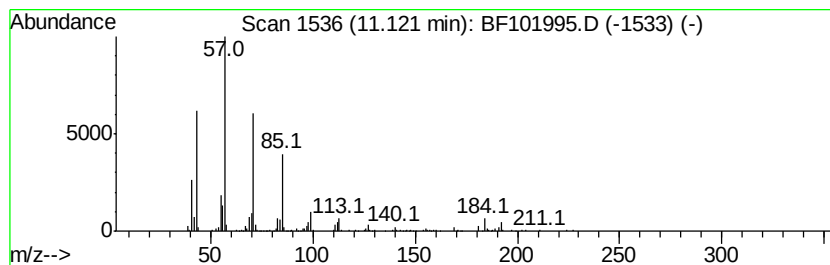
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Bacchotricuneatin c Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.12	5.35 ng	459685	Phenanthrene-d10		11.24
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bacchotricuneatin c	342	C20H22O5	066563-30-2	98
2	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	91
3	Pentadecane	212	C15H32	000629-62-9	90
4	Hexadecane	226	C16H34	000544-76-3	90
5	Nonane, 5-butyl-	184	C13H28	017312-63-9	81



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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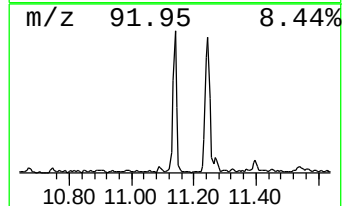
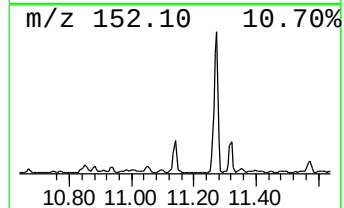
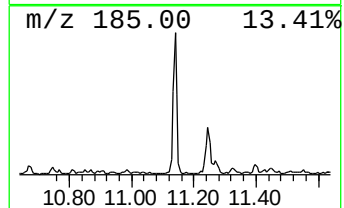
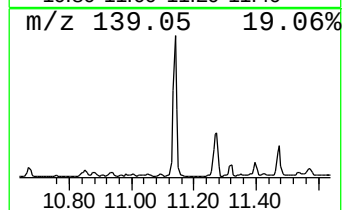
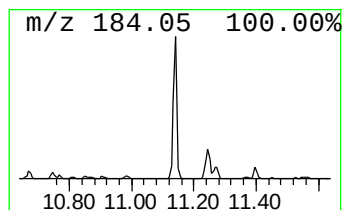
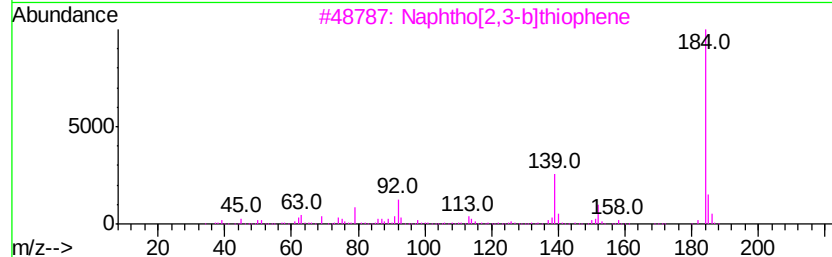
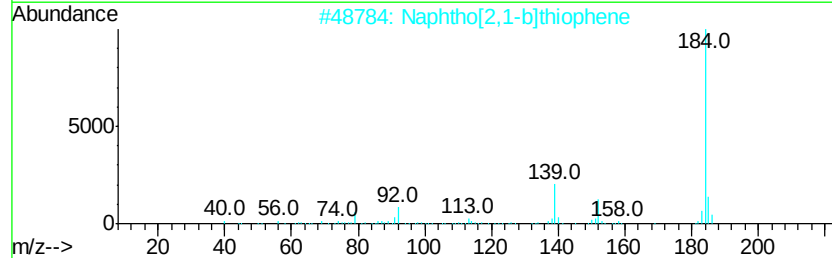
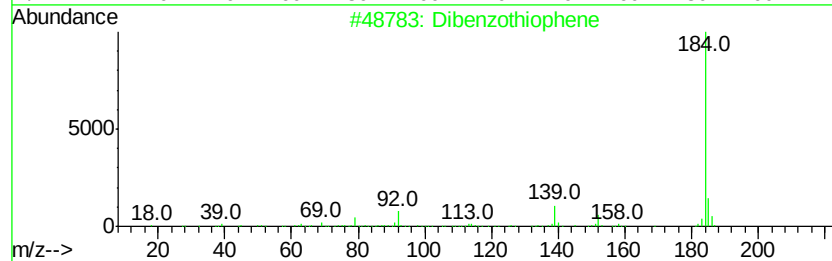
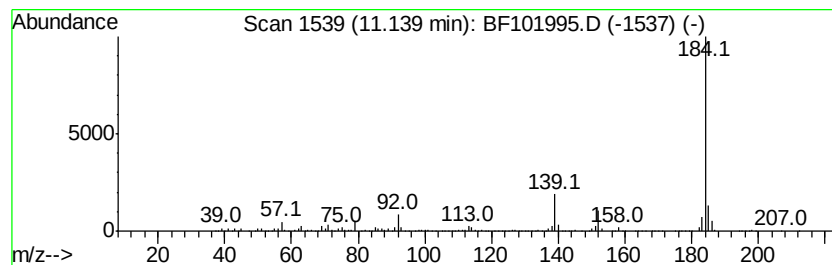
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Dibenzothiophene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	12.82 ng	1102590	Phenanthrene-d10	11.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzothiophene	184	C12H8S	000132-65-0	96
2		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
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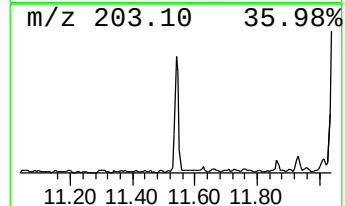
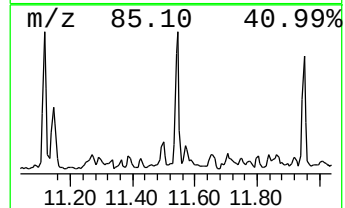
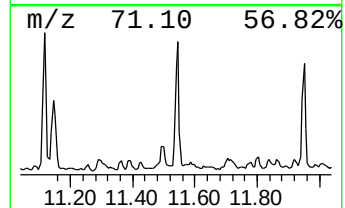
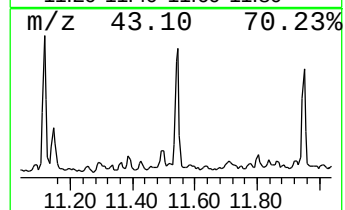
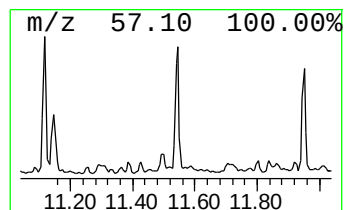
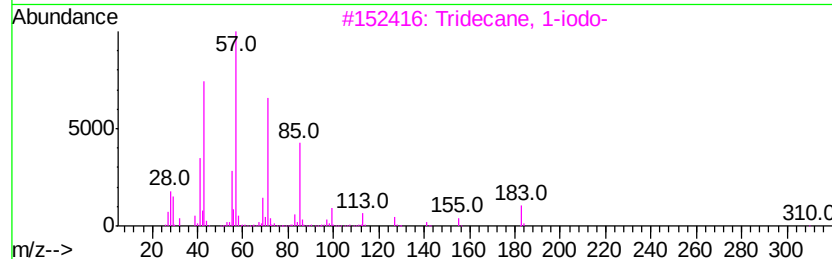
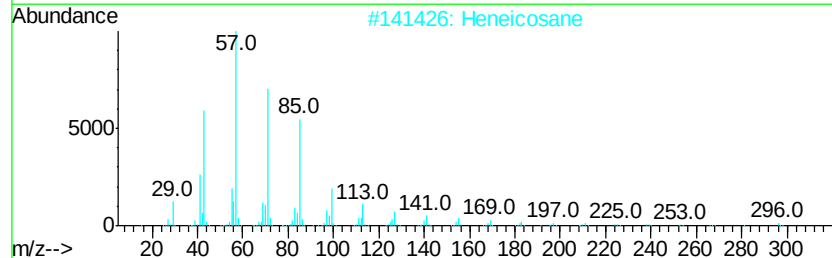
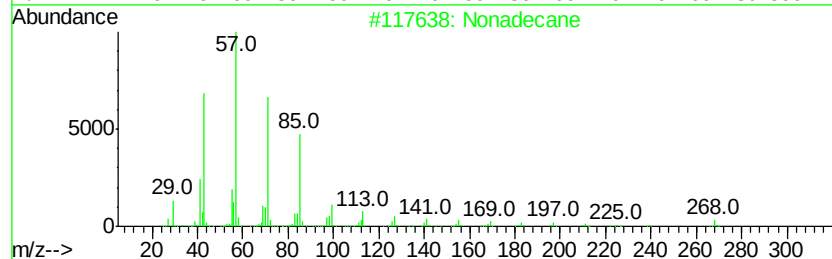
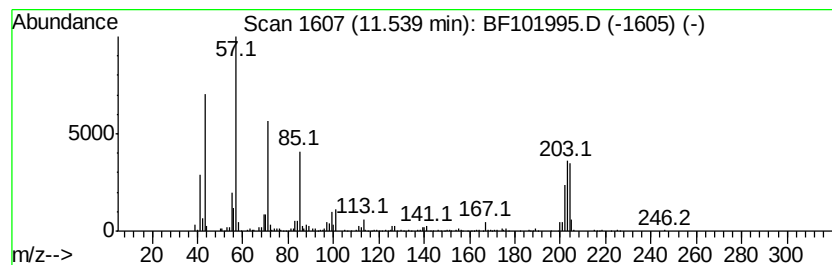
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Nonadecane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.54	6.33 ng	544221	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane	268	C19H40	000629-92-5	92
2		Heneicosane	296	C21H44	000629-94-7	49
3		Tridecane, 1-iodo-	310	C13H27I	035599-77-0	49
4		Heptacosane	380	C27H56	000593-49-7	49
5		2-Bromo dodecane	248	C12H25Br	013187-99-0	47



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Sample : J1076-12 50X
Misc :
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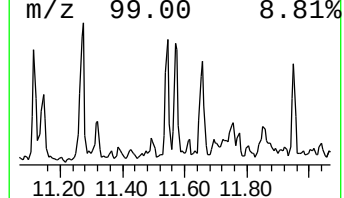
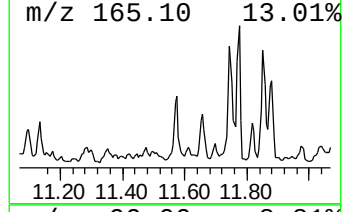
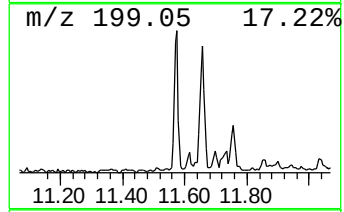
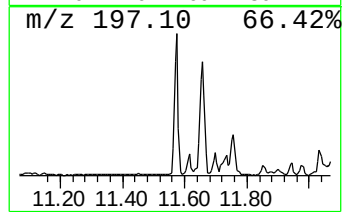
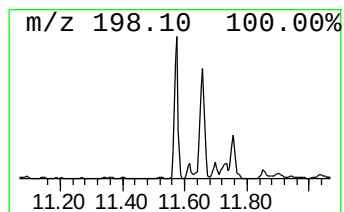
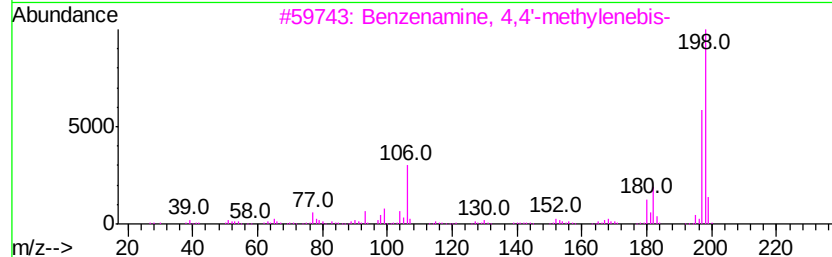
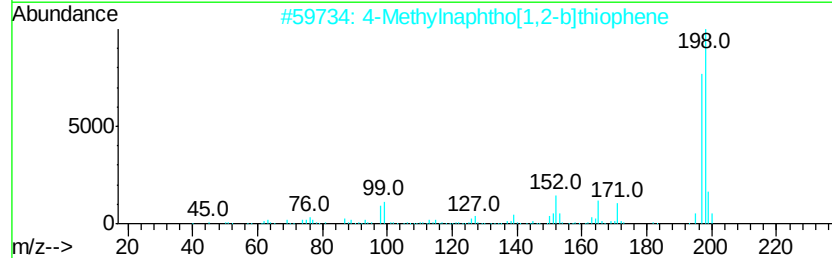
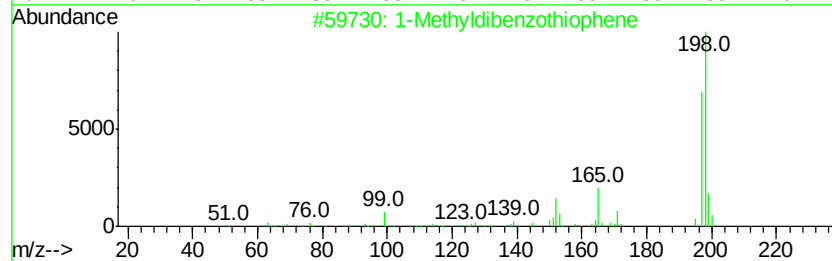
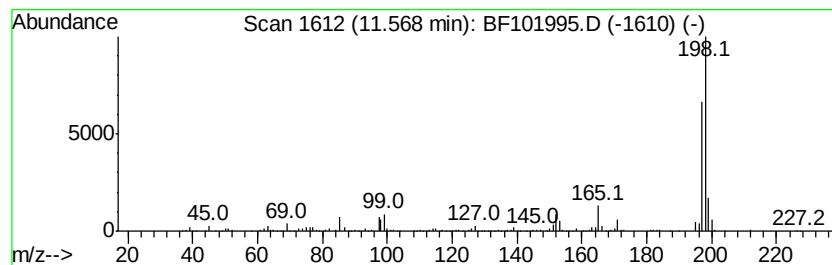
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 1-Methyldibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.57	5.78 ng	496602	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80
4	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	72
5	Benzeneacetonitrile, 4-(1,2,3,6-...	198	C13H14N2	1000115-51-2	72



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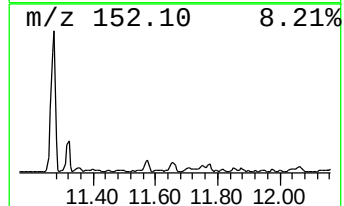
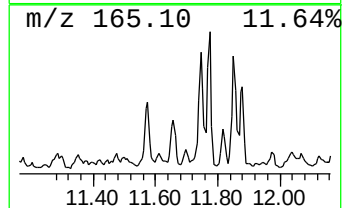
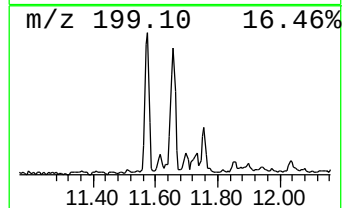
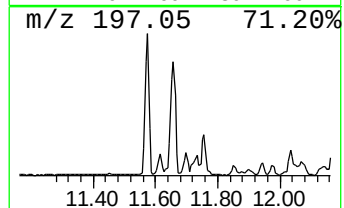
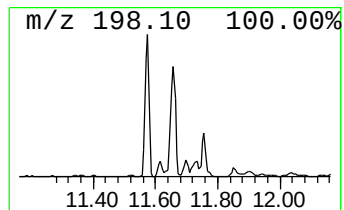
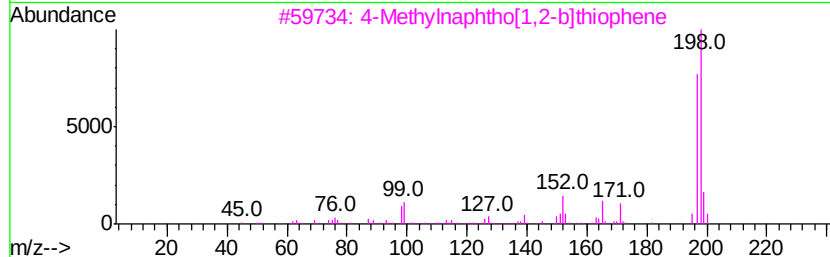
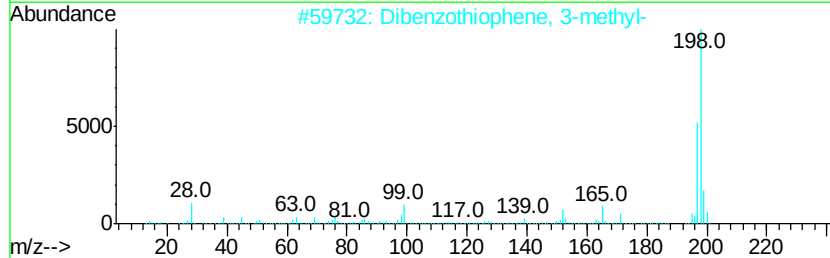
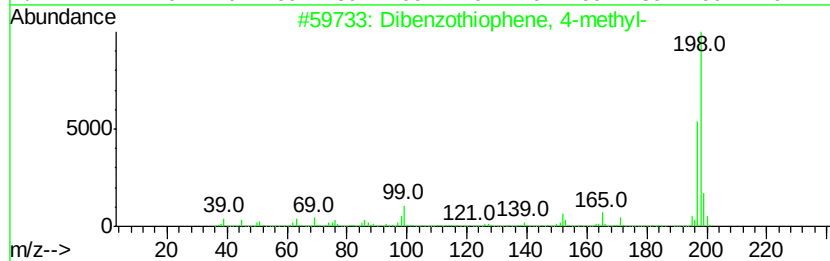
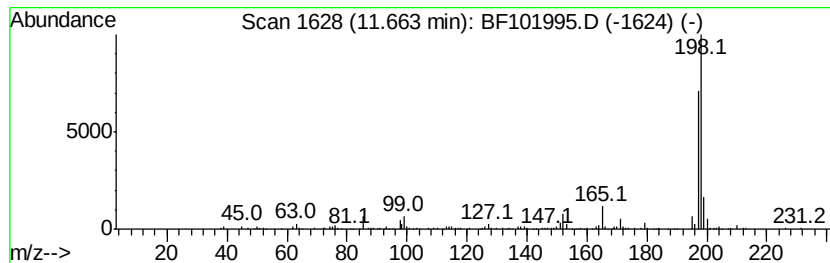
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Dibenzothiophene, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.66	5.50 ng	472468	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	97
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	96
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	94
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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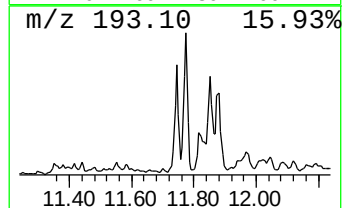
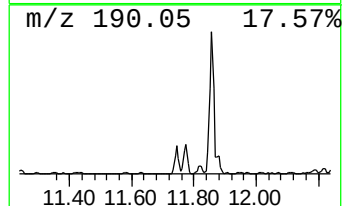
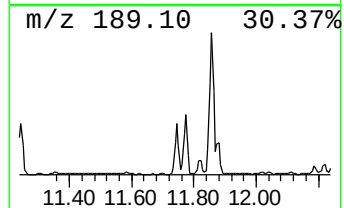
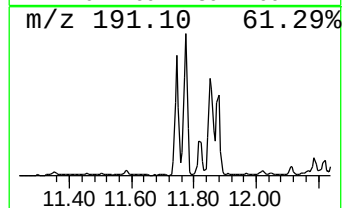
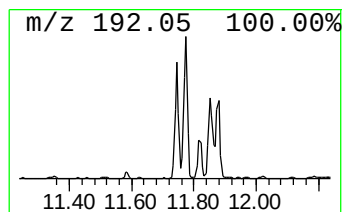
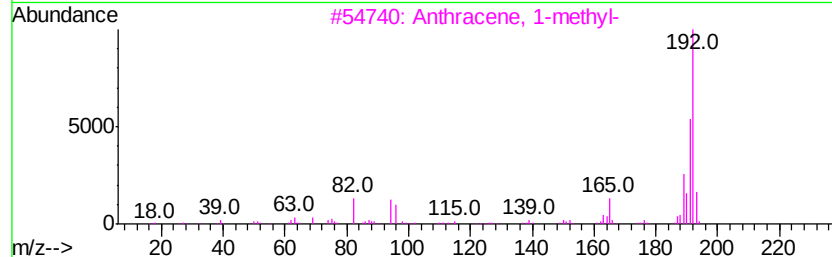
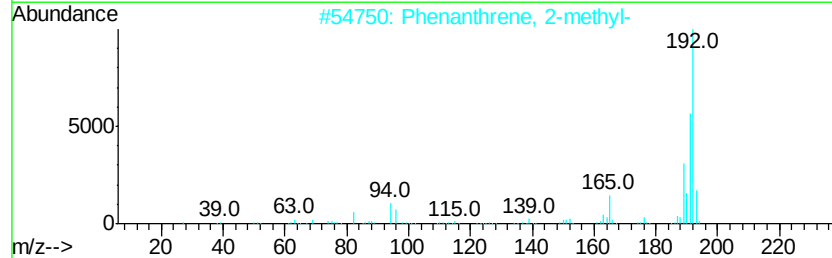
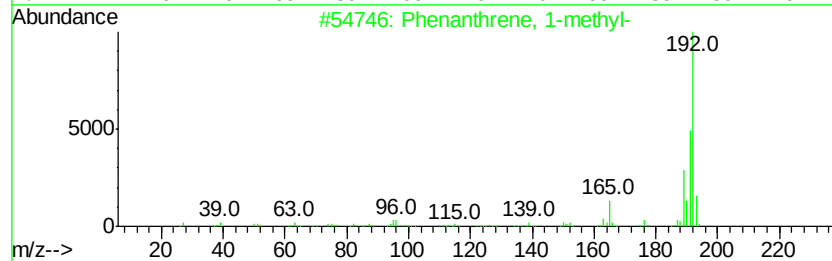
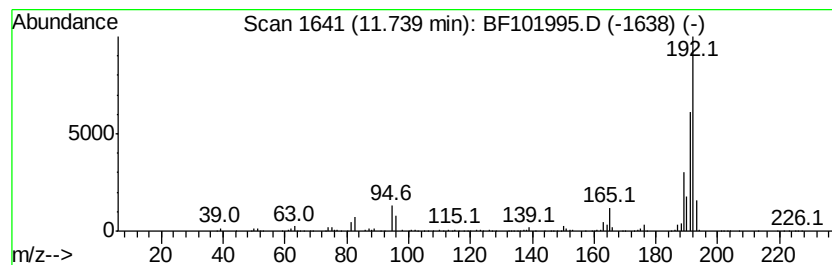
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.74	11.21 ng	963900	Phenanthrene-d10		11.24
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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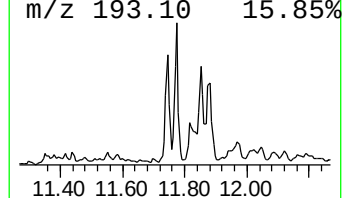
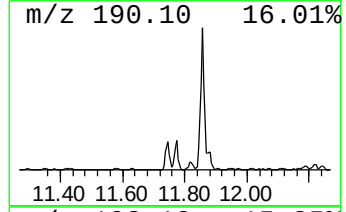
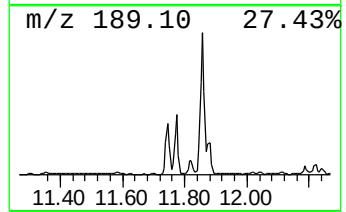
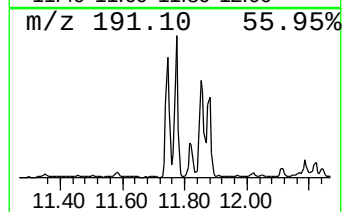
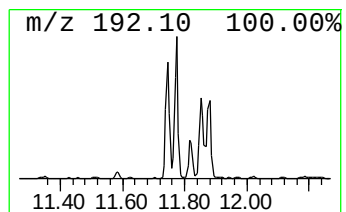
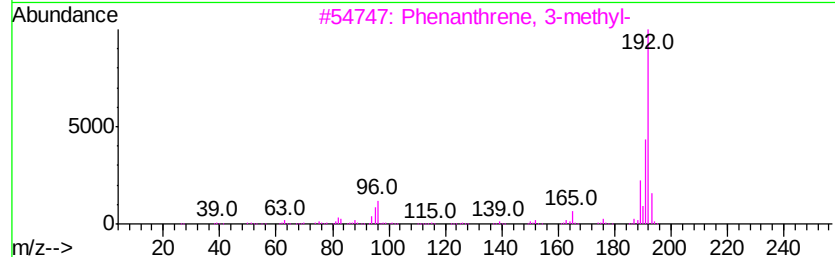
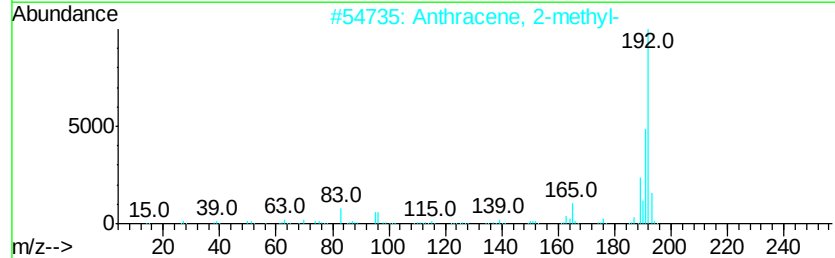
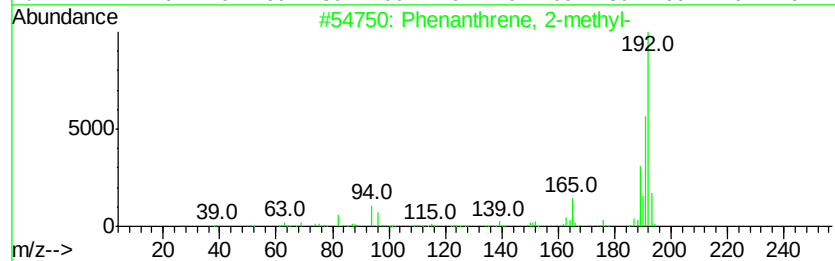
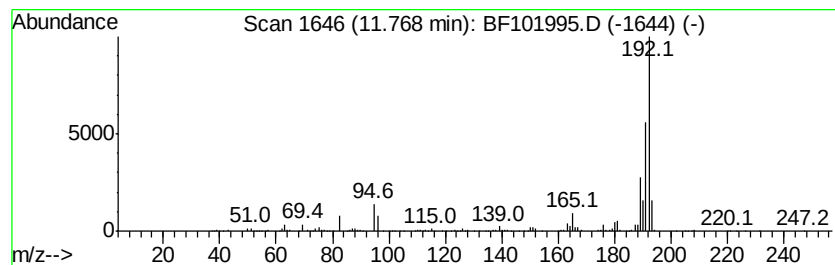
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	11.79 ng	1013580	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	91



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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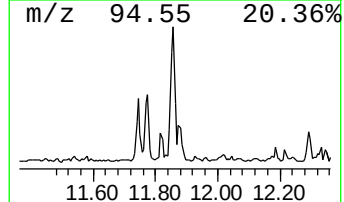
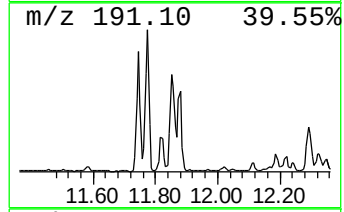
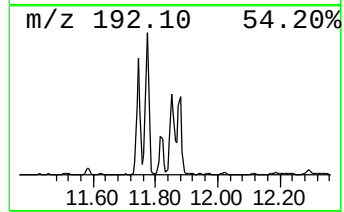
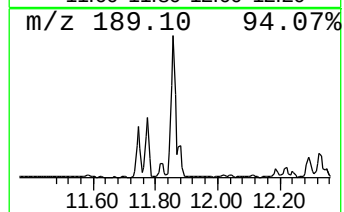
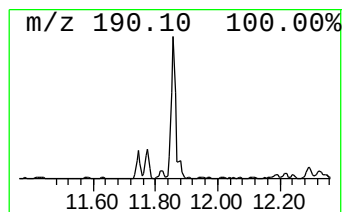
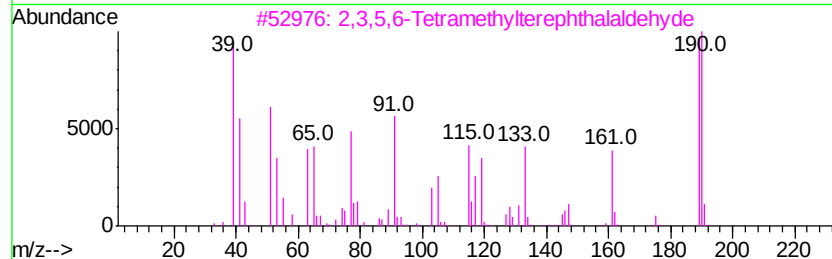
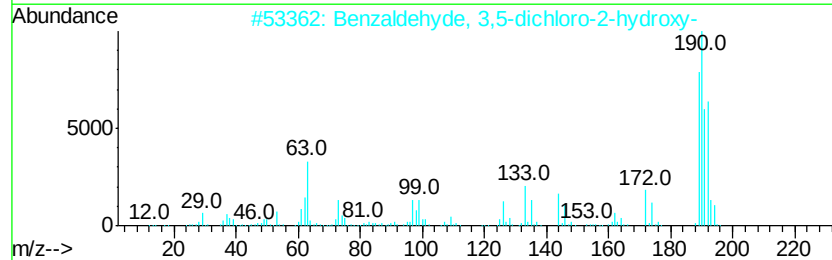
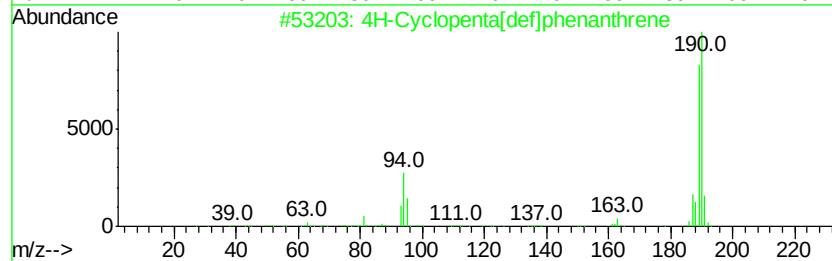
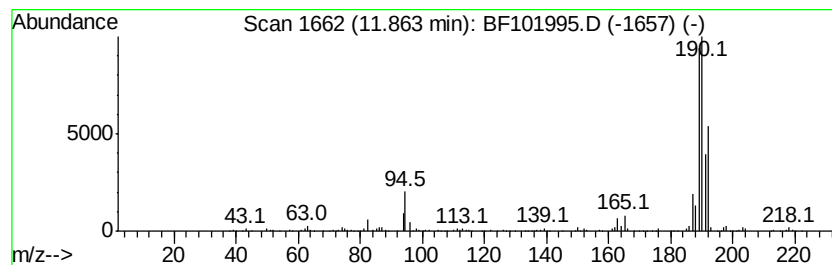
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	15.53 ng	1335320	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2		Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	49
3		2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	38
4		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	20
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	18



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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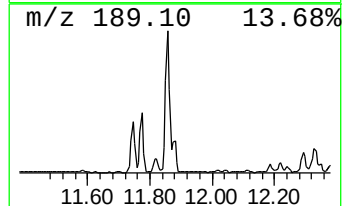
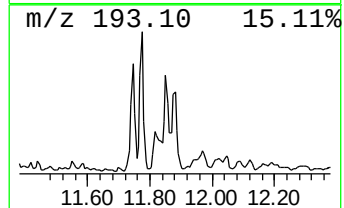
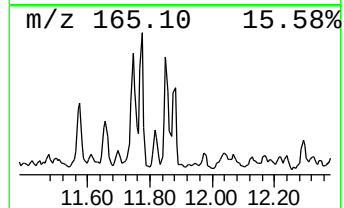
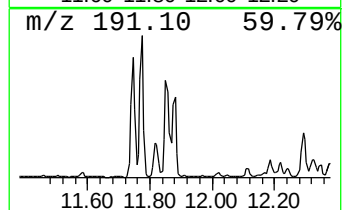
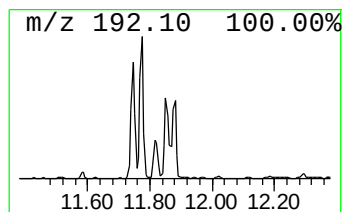
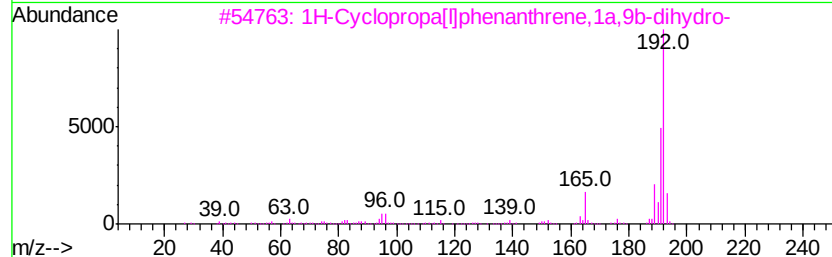
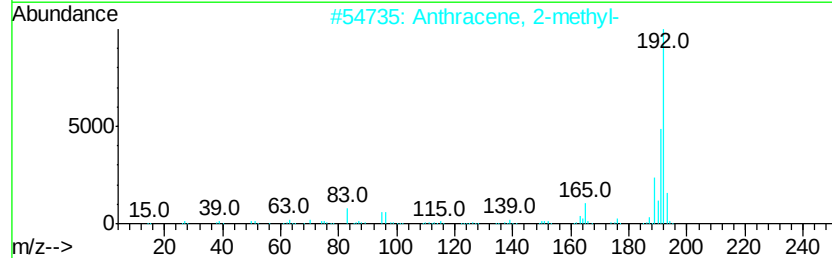
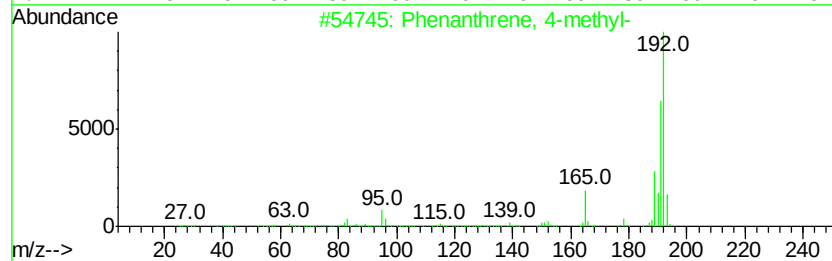
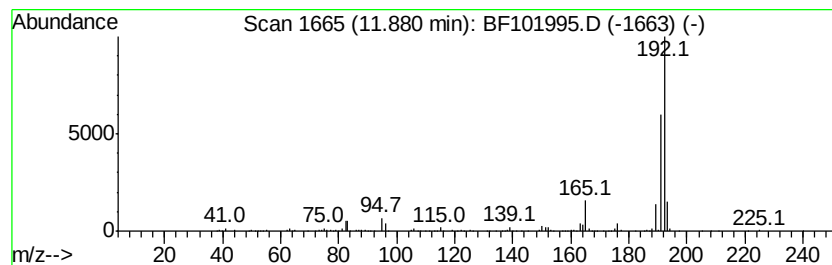
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.88	6.53 ng	561731	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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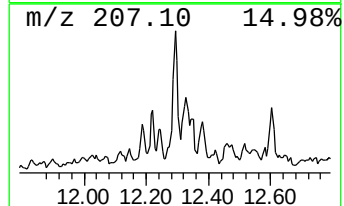
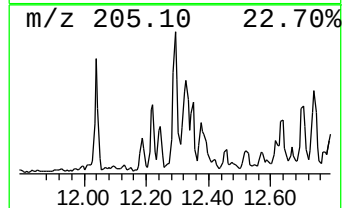
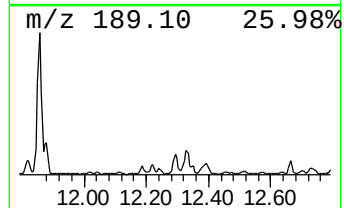
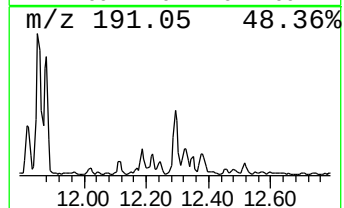
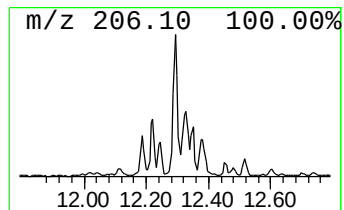
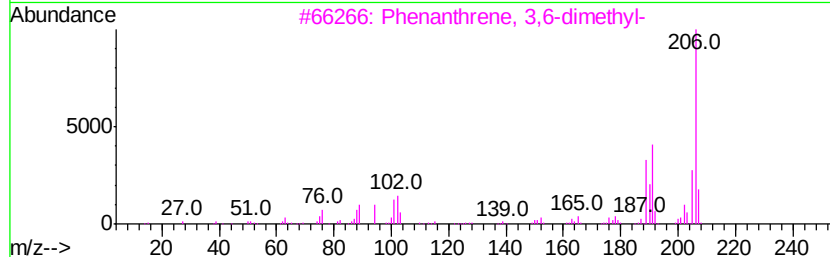
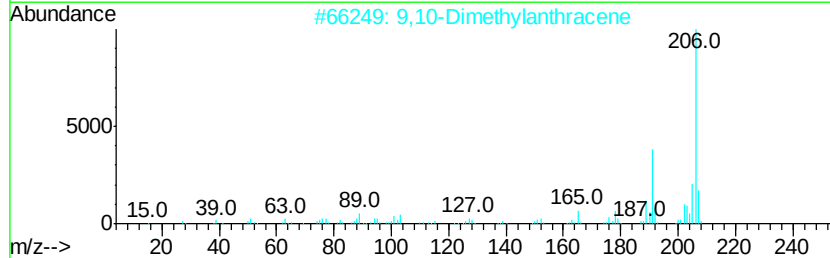
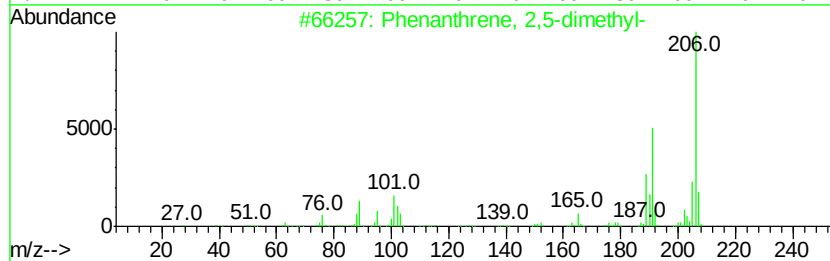
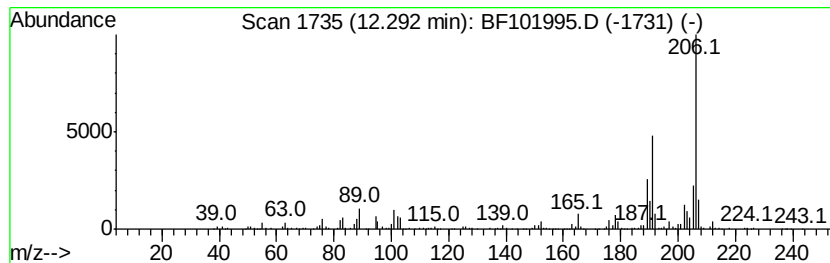
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	7.18 ng	617419	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	95
3		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
Acq On : 10 Jan 2018 22:36
Operator : SJ/JU
Sample : J1076-12 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

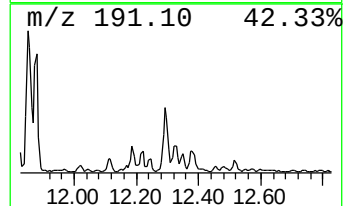
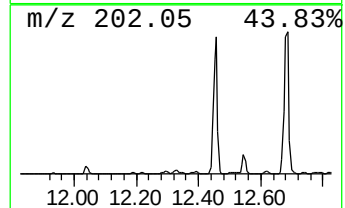
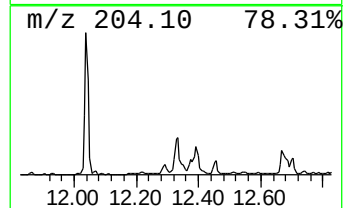
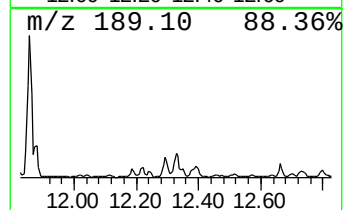
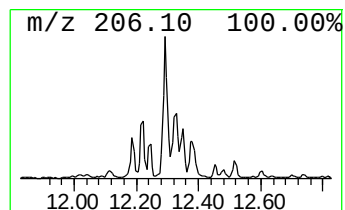
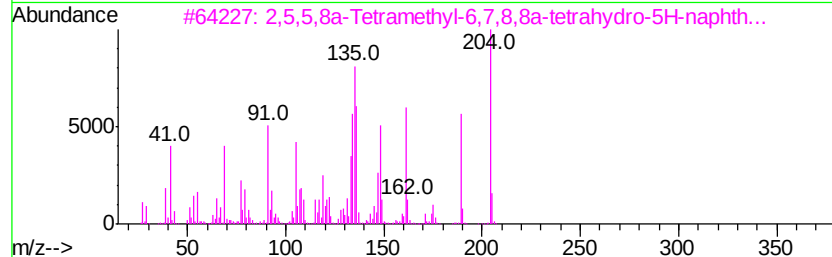
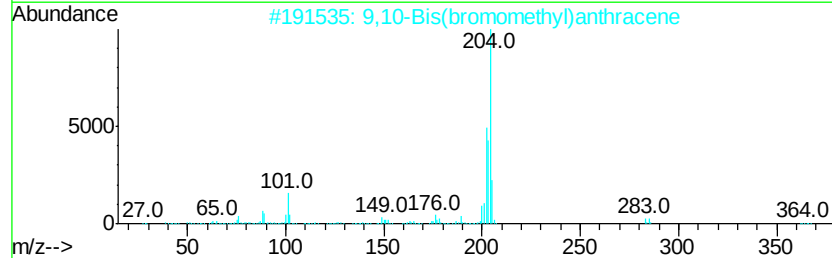
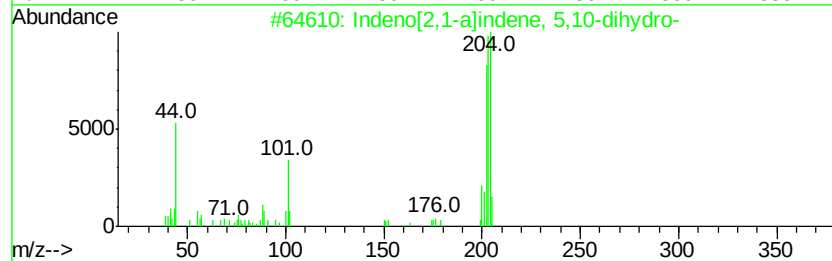
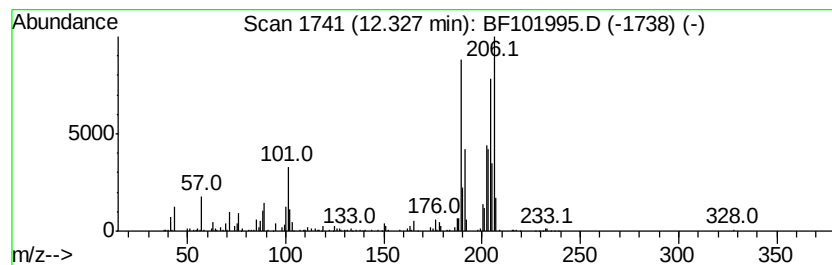
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 unknown12.33 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	8.73 ng	750708	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
2		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
3		2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H200	124957-09-1	35
4		2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	27
5		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9Cl0	028034-99-3	25



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
Acq On : 10 Jan 2018 22:36
Operator : SJ/JU
Sample : J1076-12 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

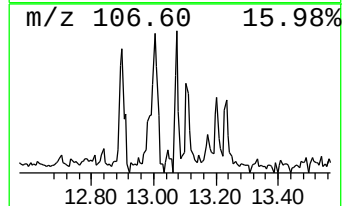
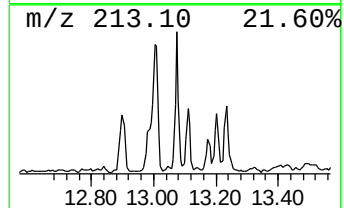
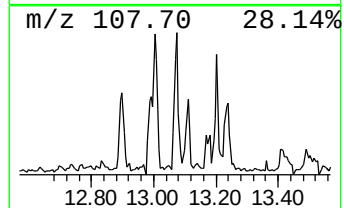
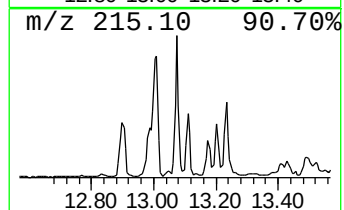
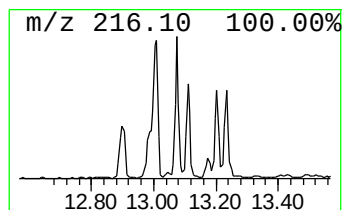
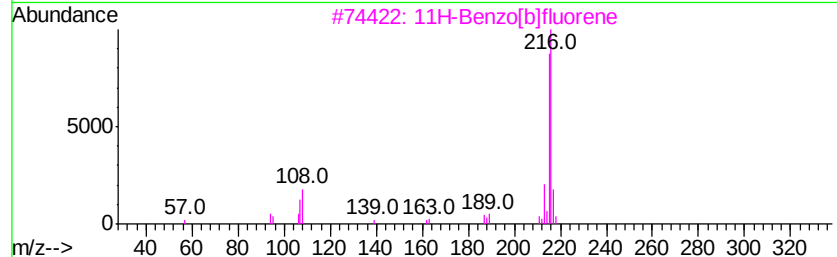
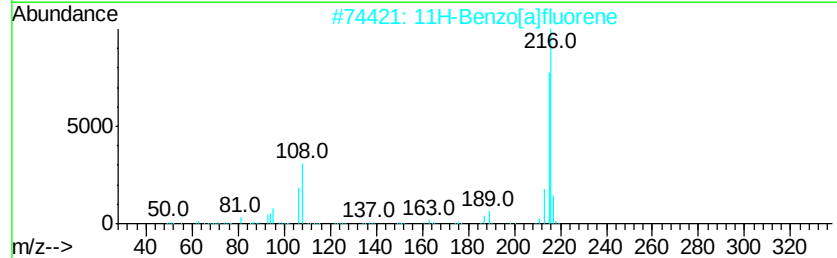
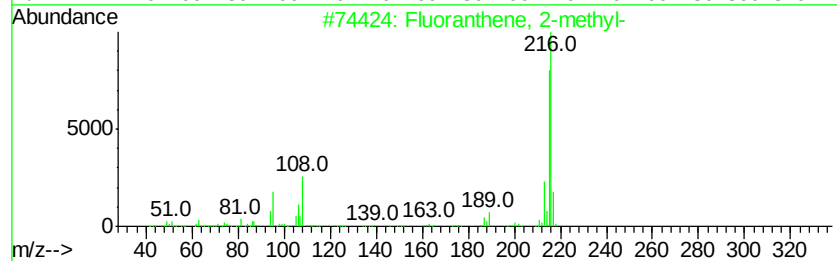
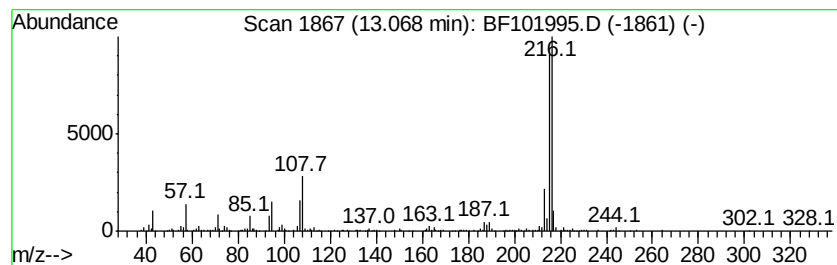
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Fluoranthene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.07	4.79 ng	532278	Chrysene-d12	13.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4		1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	59
5		Pyrene, 1-methyl-	216	C17H12	002381-21-7	53



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101995.D
Acq On : 10 Jan 2018 22:36
Operator : SJ/JU
Sample : J1076-12 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-096613-02

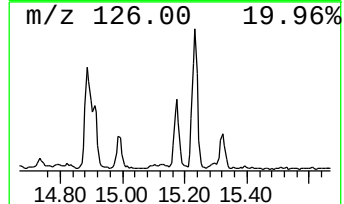
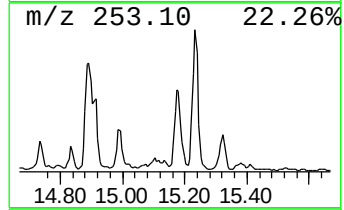
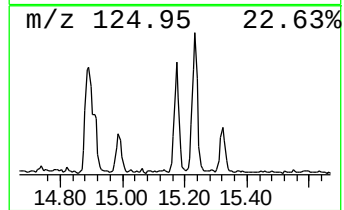
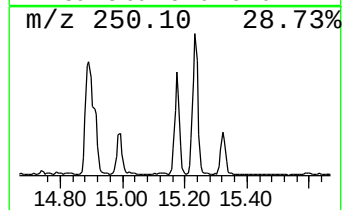
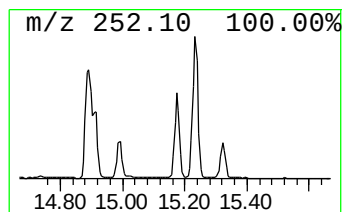
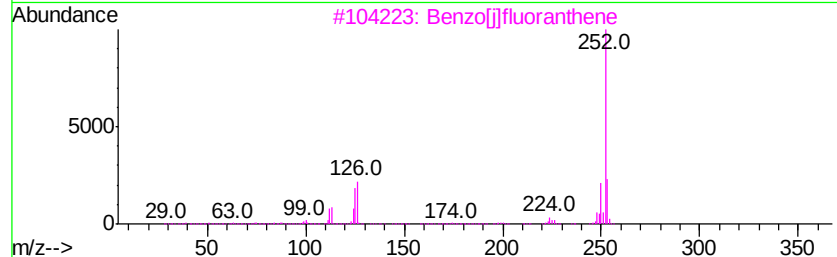
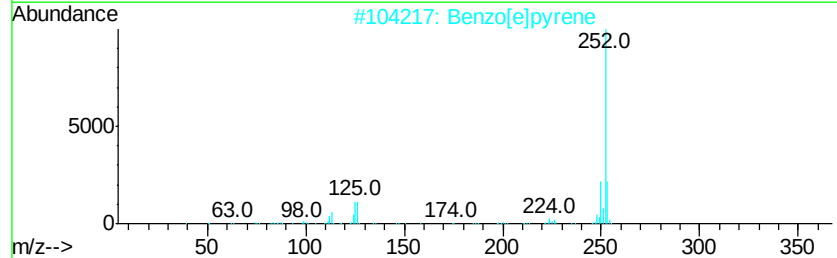
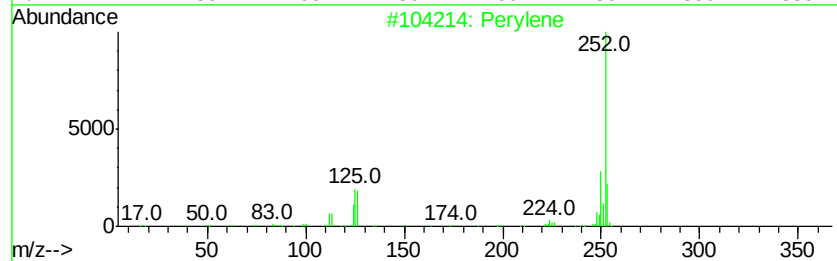
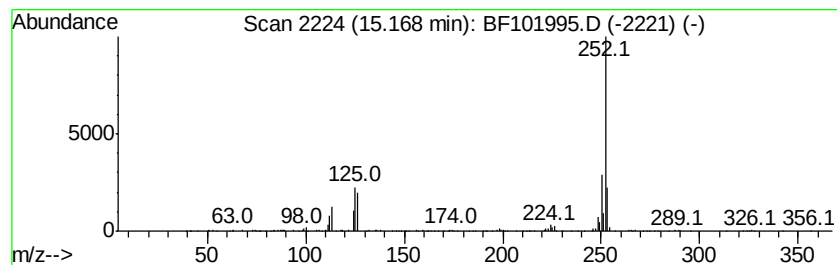
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Perylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	9.43 ng	521745	Perylene-d12	15.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	99
2		Benzo[e]pyrene	252	C20H12	000192-97-2	98
3		Benzo[i]fluoranthene	252	C20H12	000205-82-3	98
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	98
5		Benzo[a]pyrene	252	C20H12	000050-32-8	94



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
 Data File : BF101995.D
 Acq On : 10 Jan 2018 22:36
 Operator : SJ/JU
 Sample : J1076-12 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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
Indene	6.99	7.0 ng		460834	1	6.73	1321880	20.0
Naphthalene, 1-me...	8.82	21.7 ng		2053630	2	8.01	1894080	20.0
Naphthalene, 2,7-...	9.35	11.3 ng		1155390	3	9.76	2053190	20.0
Naphthalene, 2,3-...	9.42	11.9 ng		1222340	3	9.76	2053190	20.0
Naphthalene, 2,6-...	9.45	6.8 ng		695318	3	9.76	2053190	20.0
3-Methyl-4-(metho...	10.67	7.3 ng		627901	4	11.24	1719460	20.0
9H-Fluorene, 1-me...	10.85	6.8 ng		585018	4	11.24	1719460	20.0
Bacchotricuneatin c	11.12	5.3 ng		459685	4	11.24	1719460	20.0
Dibenzothiophene	11.14	12.8 ng		1102590	4	11.24	1719460	20.0
Nonadecane	11.54	6.3 ng		544221	4	11.24	1719460	20.0
1-Methyldibenzoth...	11.57	5.8 ng		496602	4	11.24	1719460	20.0
Dibenzothiophene,...	11.66	5.5 ng		472468	4	11.24	1719460	20.0
Phenanthrene, 1-m...	11.74	11.2 ng		963900	4	11.24	1719460	20.0
Phenanthrene, 2-m...	11.77	11.8 ng		1013580	4	11.24	1719460	20.0
4H-Cyclopenta[def...	11.86	15.5 ng		1335320	4	11.24	1719460	20.0
Phenanthrene, 4-m...	11.88	6.5 ng		561731	4	11.24	1719460	20.0
Phenanthrene, 2,5...	12.29	7.2 ng		617419	4	11.24	1719460	20.0
unknown12.33	12.33	8.7 ng		750708	4	11.24	1719460	20.0
Fluoranthene, 2-m...	13.07	4.8 ng		532278	5	13.87	2224640	20.0
Perylene	15.17	9.4 ng		521745	6	15.30	1106610	20.0