

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF121417\
 Data File : BF101401.D
 Acq On : 14 Dec 2017 18:56
 Operator : SJ/JU
 Sample : I6835-01 100X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

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-BF121417.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	6.634	770	773	777	rBV2	120695	150209	1.42%	0.183%
2	6.810	800	803	810	rBV	1031949	1048617	9.94%	1.280%
3	6.987	828	833	840	rBV	218434	212428	2.01%	0.259%
4	7.069	844	847	856	rBV	1555950	1593422	15.10%	1.945%
5	7.239	872	876	886	rBV2	178313	282240	2.68%	0.344%
6	7.516	918	923	926	rBV	119994	148838	1.41%	0.182%
7	7.763	960	965	974	rBV2	71842	150560	1.43%	0.184%
8	7.845	974	979	982	rVV2	145249	172413	1.63%	0.210%
9	7.875	982	984	986	rVV	128154	132873	1.26%	0.162%
10	7.898	986	988	996	rVB3	110447	138397	1.31%	0.169%
11	8.133	1014	1028	1031	rBV2	5965275	10549622	100.00%	12.876%
12	8.175	1031	1035	1042	rVB	475313	504437	4.78%	0.616%
13	8.463	1081	1084	1093	rVB	188838	210262	1.99%	0.257%
14	8.751	1129	1133	1139	rVB2	136129	182617	1.73%	0.223%
15	8.810	1139	1143	1149	rVV	2835970	2807532	26.61%	3.427%
16	8.869	1149	1153	1156	rVV2	78762	135161	1.28%	0.165%
17	8.910	1156	1160	1172	rVB	1632047	1521016	14.42%	1.856%
18	9.275	1218	1222	1228	rVB	806004	732055	6.94%	0.893%
19	9.439	1245	1250	1254	rBV	379379	538651	5.11%	0.657%
20	9.510	1258	1262	1265	rVV	490816	517671	4.91%	0.632%
21	9.539	1265	1267	1270	rVV	348862	283805	2.69%	0.346%
22	9.580	1270	1274	1278	rVB	228613	196009	1.86%	0.239%
23	9.627	1278	1282	1288	rBV	229413	273882	2.60%	0.334%
24	9.716	1293	1297	1301	rBV	2758710	2447702	23.20%	2.987%
25	9.833	1313	1317	1318	rBV	302651	281666	2.67%	0.344%
26	9.851	1318	1320	1323	rVV2	1550982	1420581	13.47%	1.734%
27	9.886	1323	1326	1331	rVB	1087391	915913	8.68%	1.118%
28	9.933	1331	1334	1337	rBV	150712	144150	1.37%	0.176%
29	10.063	1351	1356	1359	rBV	2051032	1975178	18.72%	2.411%
30	10.092	1359	1361	1365	rVB2	127800	136044	1.29%	0.166%
31	10.310	1395	1398	1400	rBV	218358	179348	1.70%	0.219%
32	10.404	1410	1414	1420	rVB	3015002	3065324	29.06%	3.741%
33	10.510	1430	1432	1436	rVV	197876	214637	2.03%	0.262%
34	10.557	1437	1440	1443	rVV	505823	472962	4.48%	0.577%

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35	10.586	1443	1445	1448	rVB2	177156	143474	1.36%	0.175%
36	10.627	1448	1452	1459	rBV2	615143	1126792	10.68%	1.375%
37	10.951	1502	1507	1510	rBV	394384	424907	4.03%	0.519%
38	11.033	1518	1521	1524	rBV	168757	155638	1.48%	0.190%
39	11.098	1530	1532	1537	rVV2	129578	161452	1.53%	0.197%
40	11.151	1538	1541	1544	rVV	146570	142427	1.35%	0.174%
41	11.186	1544	1547	1551	rVV3	123935	150833	1.43%	0.184%
42	11.239	1551	1556	1562	rVB	594012	596064	5.65%	0.727%
43	11.345	1568	1574	1576	rBV	1450005	1664863	15.78%	2.032%
44	11.380	1576	1580	1582	rVV	4928324	5940586	56.31%	7.250%
45	11.427	1582	1588	1591	rVV	2969231	2857285	27.08%	3.487%
46	11.463	1591	1594	1598	rVV	148291	160225	1.52%	0.196%
47	11.580	1609	1614	1621	rVV2	1338319	1346215	12.76%	1.643%
48	11.633	1621	1623	1625	rVV	149530	158486	1.50%	0.193%
49	11.686	1629	1632	1636	rVB3	130962	155115	1.47%	0.189%
50	11.845	1655	1659	1662	rBV	787074	688871	6.53%	0.841%
51	11.874	1662	1664	1669	rVB	1038747	871307	8.26%	1.063%
52	11.921	1669	1672	1675	rBV	464544	440963	4.18%	0.538%
53	11.963	1675	1679	1681	rBV	1484625	1497002	14.19%	1.827%
54	12.027	1687	1690	1693	rBV3	141087	136435	1.29%	0.167%
55	12.057	1693	1695	1698	rVV2	178644	146578	1.39%	0.179%
56	12.110	1698	1704	1706	rVV4	92999	163369	1.55%	0.199%
57	12.139	1706	1709	1714	rVV	598083	516085	4.89%	0.630%
58	12.392	1747	1752	1755	rBV	210551	266956	2.53%	0.326%
59	12.439	1756	1760	1761	rVV	163895	203919	1.93%	0.249%
60	12.568	1777	1782	1785	rBV	4099277	4340656	41.15%	5.298%
61	12.657	1794	1797	1801	rVV	1007331	895054	8.48%	1.092%
62	12.710	1801	1806	1808	rVV2	181313	215420	2.04%	0.263%
63	12.798	1814	1821	1824	rVV2	3476090	4079742	38.67%	4.979%
64	12.839	1826	1828	1833	rVB2	238931	243724	2.31%	0.297%
65	12.910	1836	1840	1844	rBV	375472	356675	3.38%	0.435%
66	12.957	1844	1848	1852	rVB	268975	280939	2.66%	0.343%
67	13.004	1852	1856	1861	rBV2	294776	524666	4.97%	0.640%
68	13.045	1861	1863	1868	rVB	168802	145690	1.38%	0.178%
69	13.121	1873	1876	1880	rVB	1104041	1019691	9.67%	1.245%
70	13.186	1884	1887	1890	rVV	1265618	1127241	10.69%	1.376%
71	13.227	1890	1894	1900	rVB2	386095	548532	5.20%	0.669%

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72	13.292	1900	1905	1907	rBV2	154046	222129	2.11%	0.271%
73	13.316	1907	1909	1912	rVV	215429	242465	2.30%	0.296%
74	13.351	1912	1915	1924	rVB2	295259	408689	3.87%	0.499%
75	13.604	1954	1958	1961	rBV2	130350	164763	1.56%	0.201%
76	13.745	1979	1982	1983	rBV	171757	136906	1.30%	0.167%
77	13.768	1983	1986	1988	rVB	344936	293581	2.78%	0.358%
78	13.792	1988	1990	1992	rBV	189726	181819	1.72%	0.222%
79	13.915	2005	2011	2016	rBV2	74020	144232	1.37%	0.176%
80	13.992	2016	2024	2027	rBV2	2129809	3446121	32.67%	4.206%
81	14.021	2027	2029	2036	rVV	1592556	1365374	12.94%	1.666%
82	14.192	2056	2058	2060	rVV	164592	138060	1.31%	0.169%
83	14.227	2060	2064	2067	rVB2	166641	210467	2.00%	0.257%
84	14.380	2085	2090	2093	rVV	341260	464524	4.40%	0.567%
85	14.415	2093	2096	2099	rVV2	134918	149416	1.42%	0.182%
86	14.480	2105	2107	2109	rVV2	209409	191516	1.82%	0.234%
87	14.504	2109	2111	2113	rVV	162904	166256	1.58%	0.203%
88	14.527	2113	2115	2120	rVV	276717	256717	2.43%	0.313%
89	15.039	2197	2202	2205	rBV	852520	1350774	12.80%	1.649%
90	15.145	2217	2220	2226	rBV	238921	266985	2.53%	0.326%
91	15.251	2231	2238	2240	rBV3	64781	139945	1.33%	0.171%
92	15.339	2249	2253	2260	rVB	479697	569446	5.40%	0.695%
93	15.404	2260	2264	2269	rBV	778974	947469	8.98%	1.156%
94	15.462	2270	2274	2277	rVV	657030	821070	7.78%	1.002%
95	15.498	2277	2280	2286	rVB2	189993	289813	2.75%	0.354%
96	15.686	2307	2312	2318	rVB6	89777	213337	2.02%	0.260%
97	16.945	2518	2526	2534	rBV	332550	670491	6.36%	0.818%
98	17.109	2549	2554	2560	rBV3	85065	175305	1.66%	0.214%
99	17.392	2595	2602	2610	rBV	201605	455225	4.32%	0.556%
100	17.639	2639	2644	2654	rVB	97584	221550	2.10%	0.270%

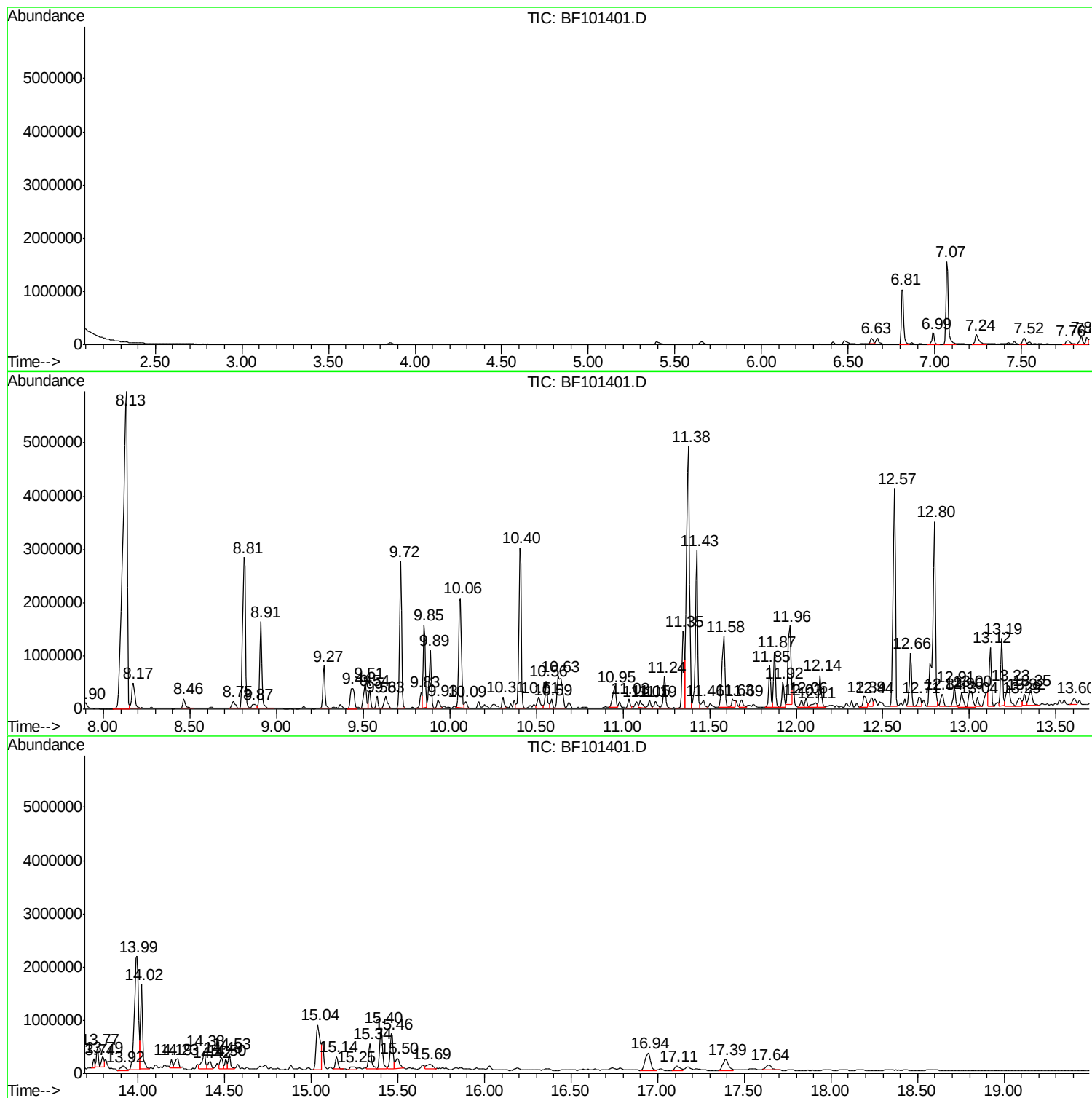
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ALS Vial : 6 Sample Multiplier: 1

Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.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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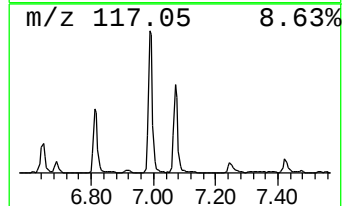
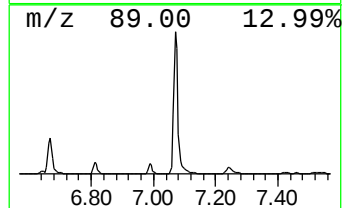
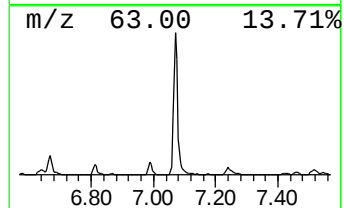
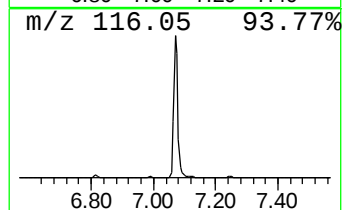
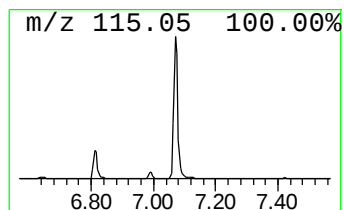
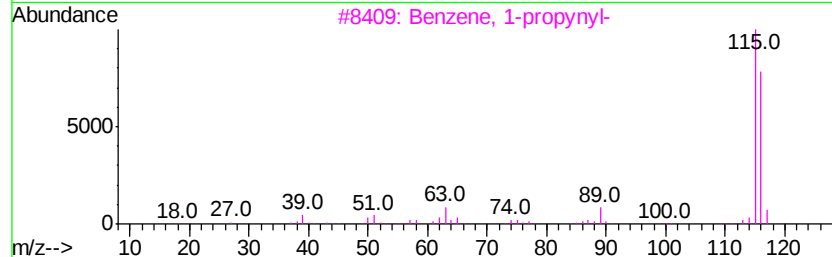
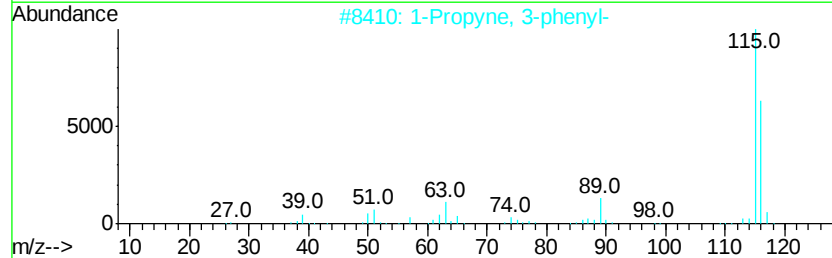
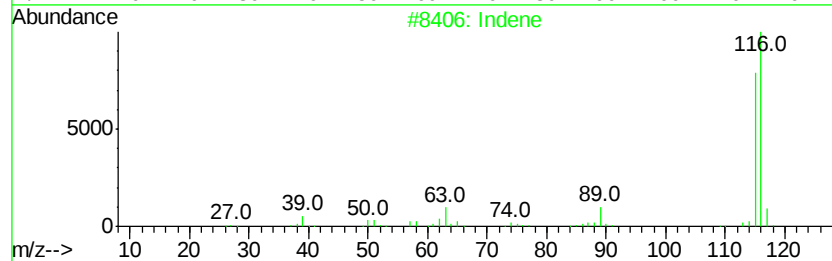
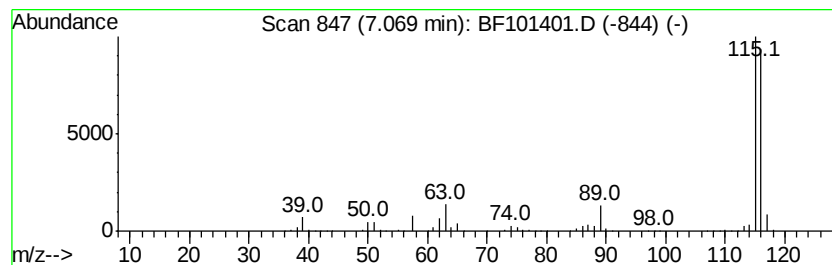
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Indene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.07	30.39 ng	1593420	1,4-Dichlorobenzene-d4	6.82

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indene	116	C9H8	000095-13-6	97
2		1-Propyne, 3-phenyl-	116	C9H8	010147-11-2	95
3		Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
4		Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
5		3-Methylphenylacetylene	116	C9H8	000766-82-5	91



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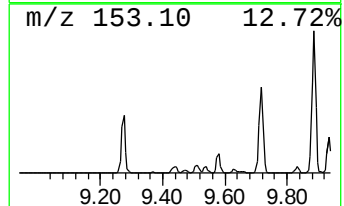
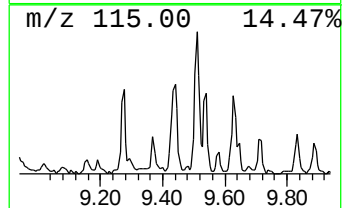
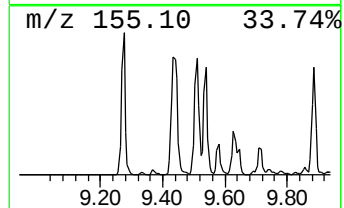
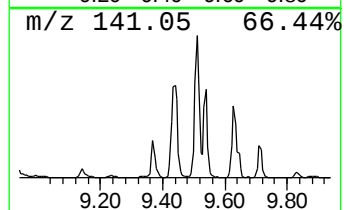
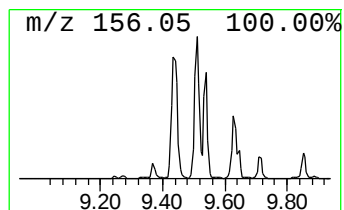
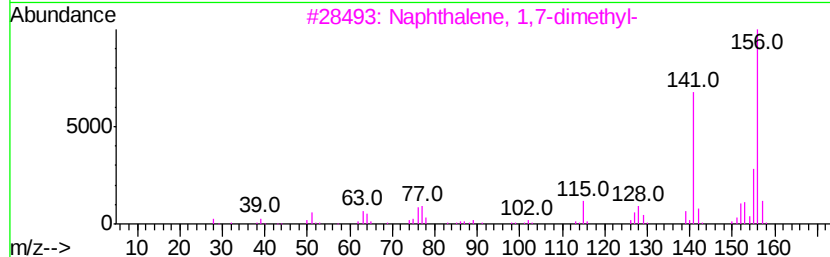
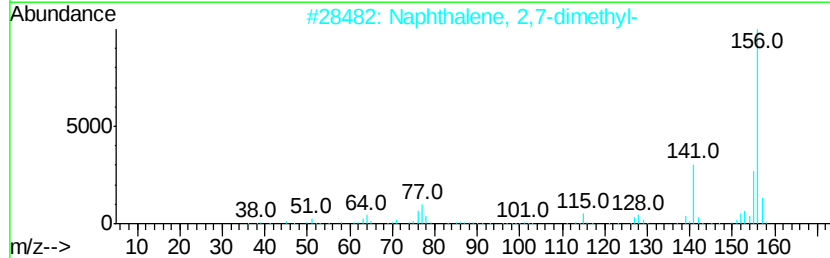
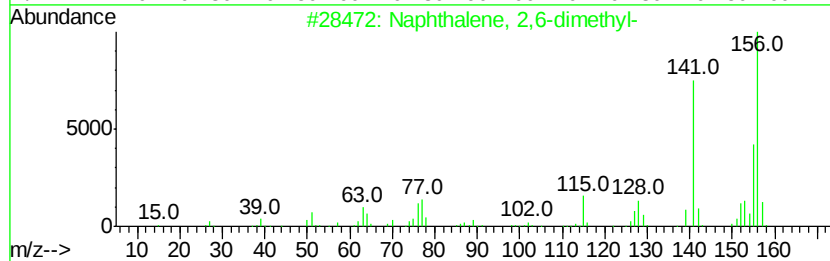
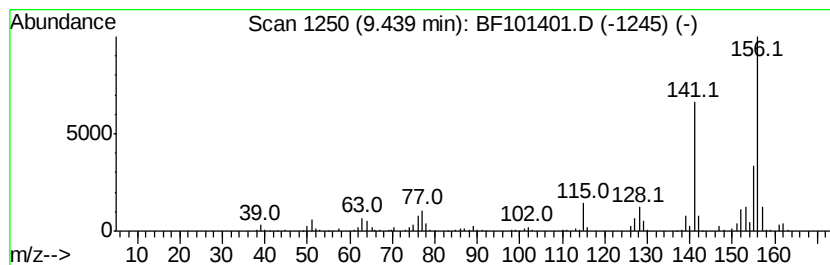
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Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.
9.44	7.58 ng	538651	Acenaphthene-d10		9.85
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96



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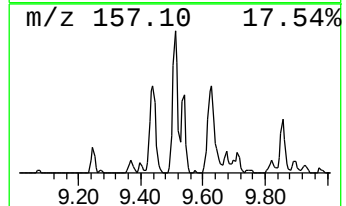
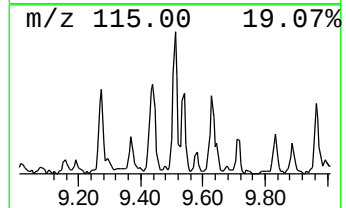
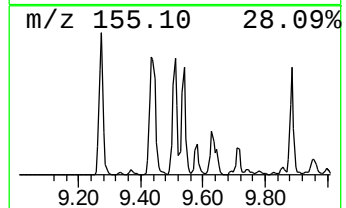
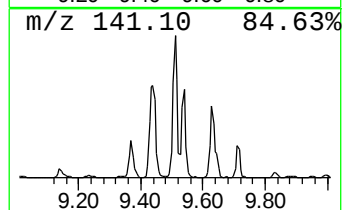
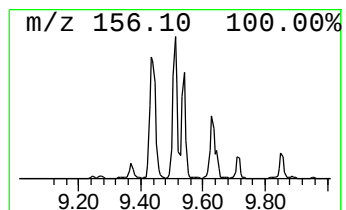
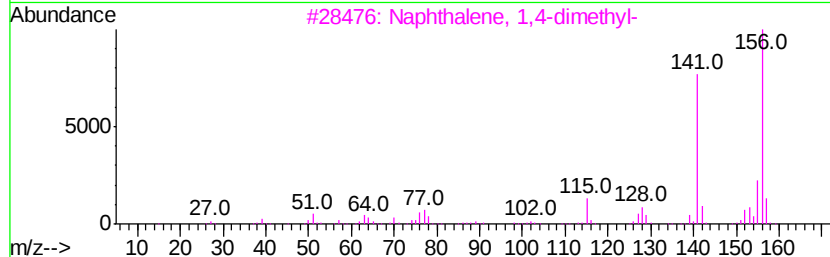
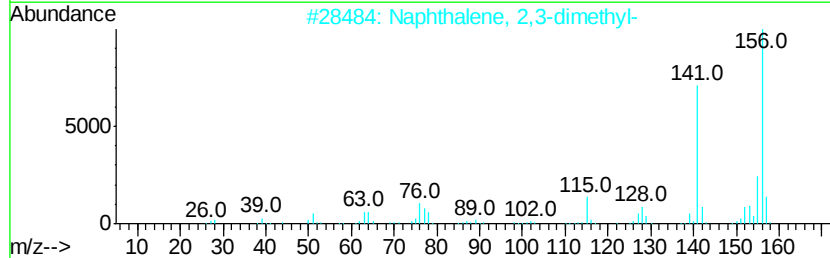
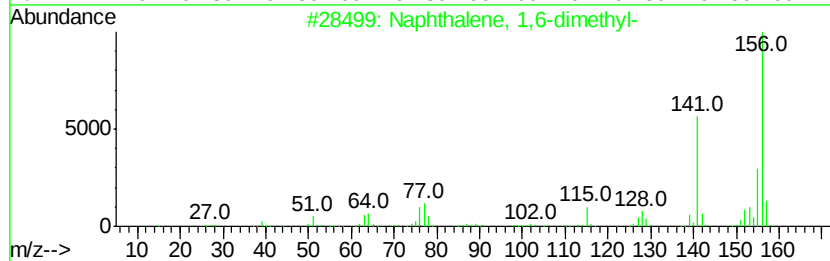
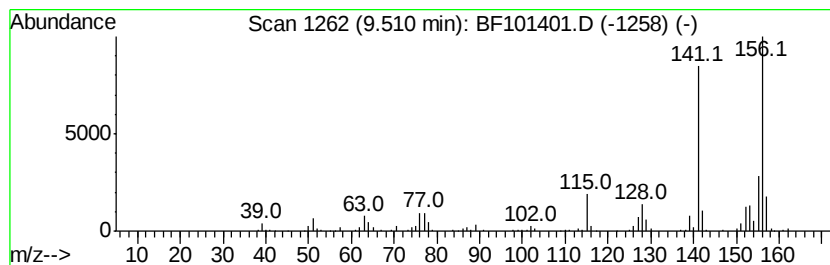
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.51	7.29 ng	517671	Acenaphthene-d10	9.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 97
2		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
3		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 97
4		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 96
5		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 96



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
Sample : I6835-01 100X
Misc :
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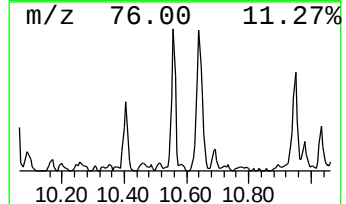
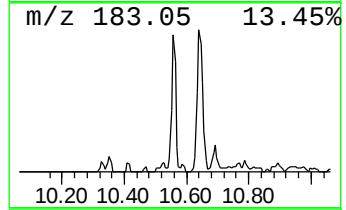
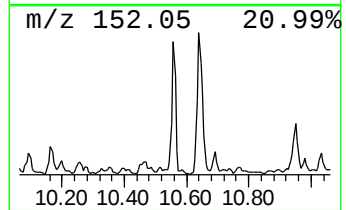
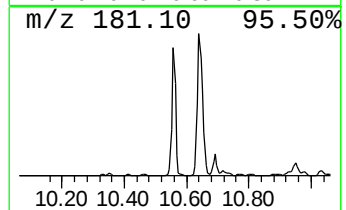
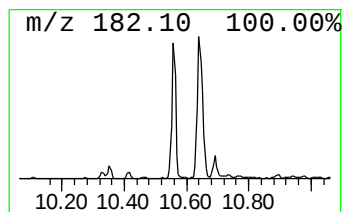
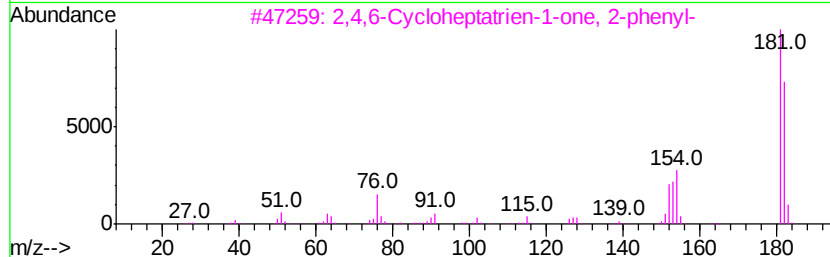
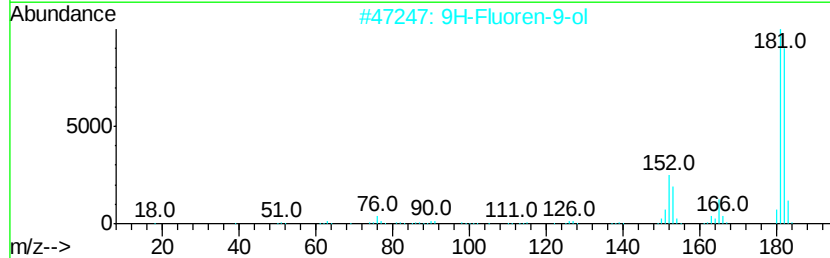
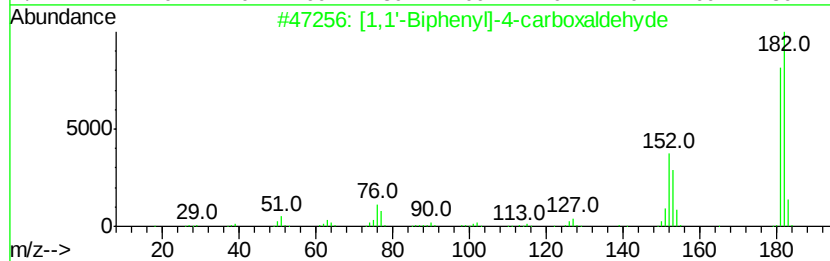
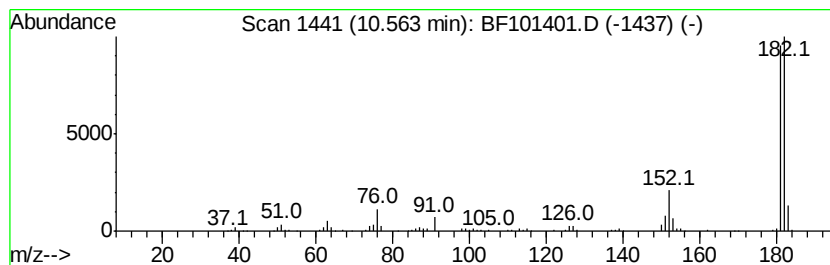
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.56	6.66 ng	472962	Acenaphthene-d10	9.85	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
3	2,4,6-Cycloheptatrien-1-one, 2-phenyl-	182	C13H10O	014562-09-5	78
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	68



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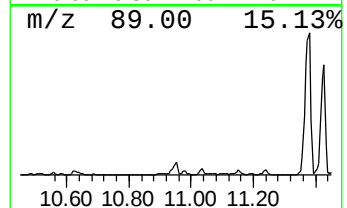
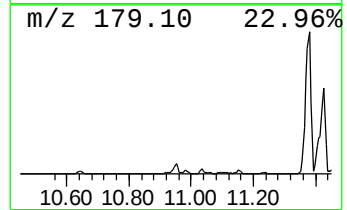
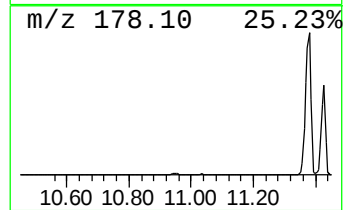
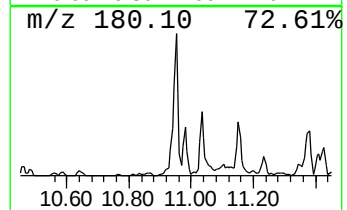
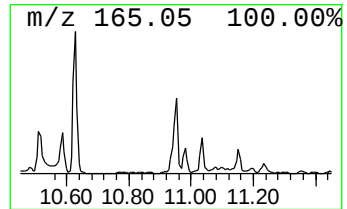
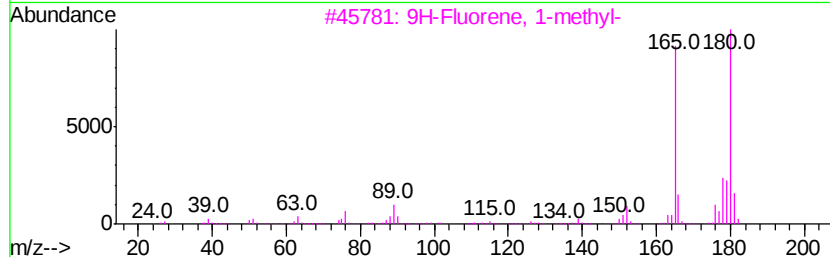
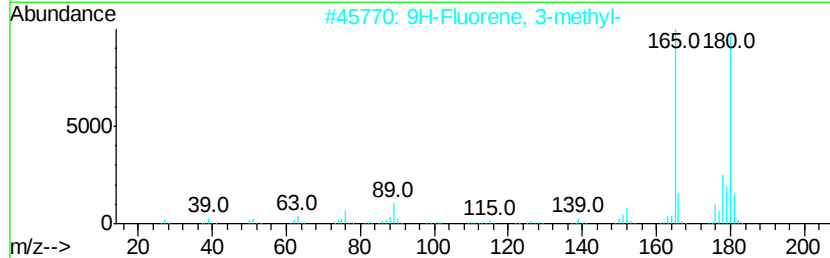
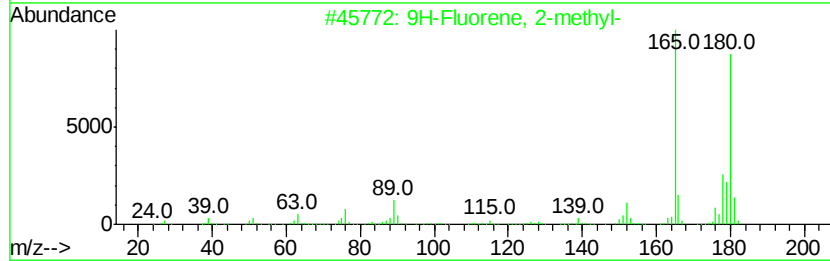
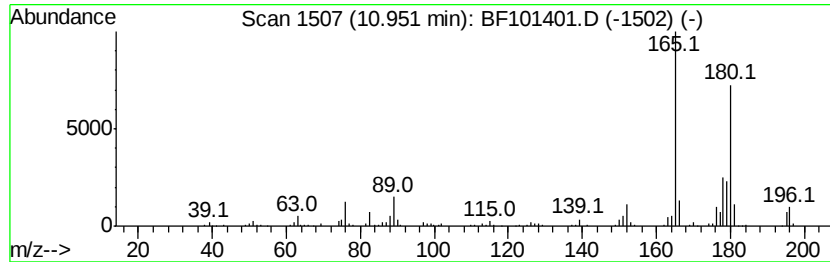
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	5.10 ng	424907	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
4		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81
5		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	78



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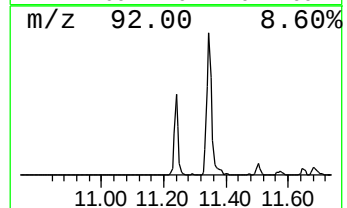
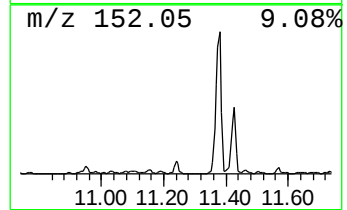
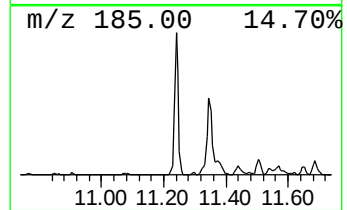
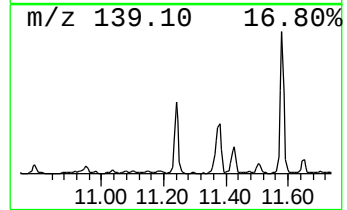
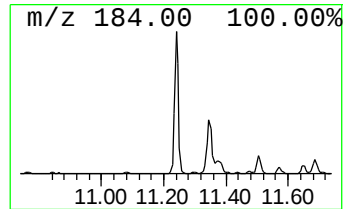
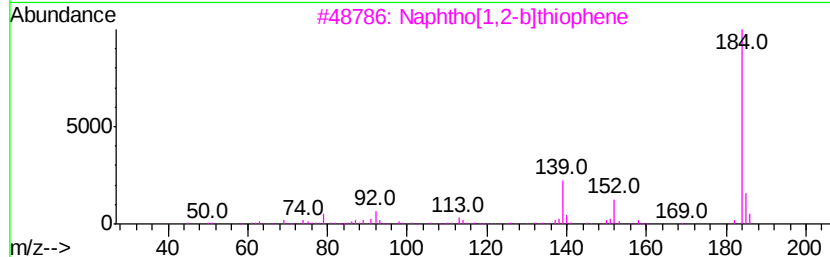
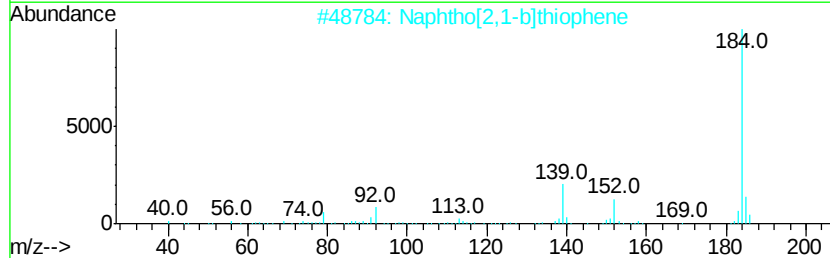
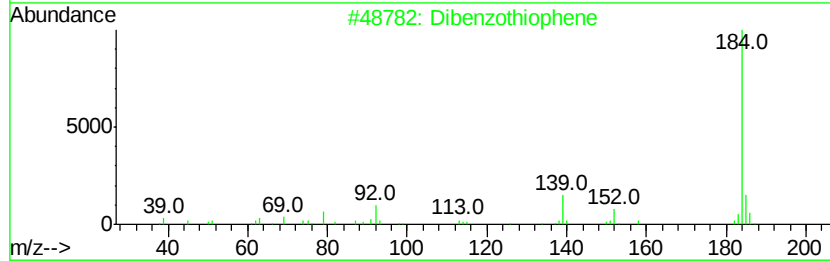
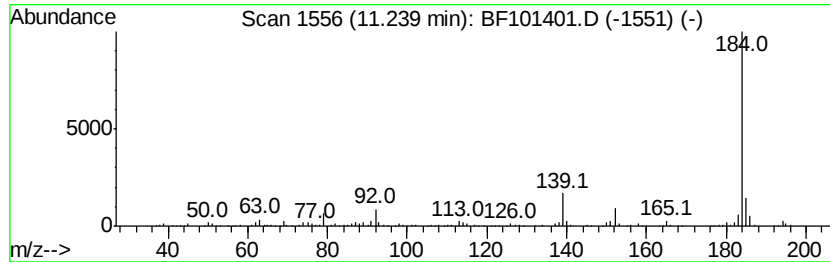
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	7.16 ng	596064	Phenanthrene-d10	11.35

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



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
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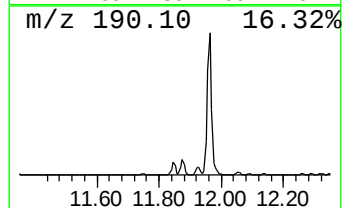
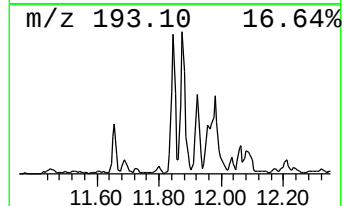
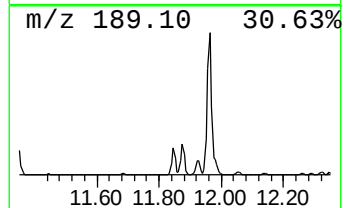
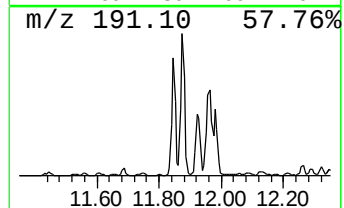
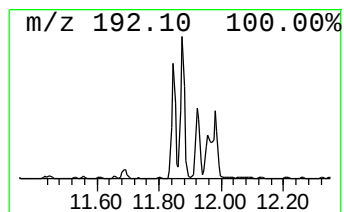
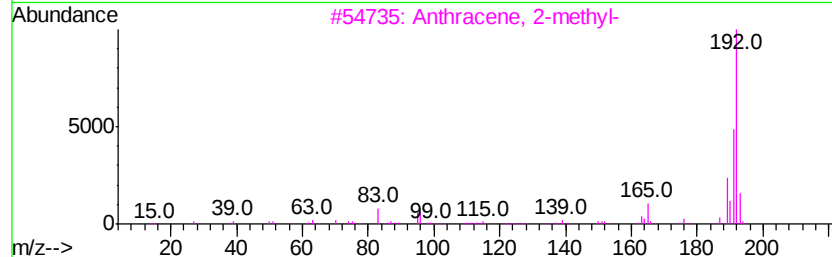
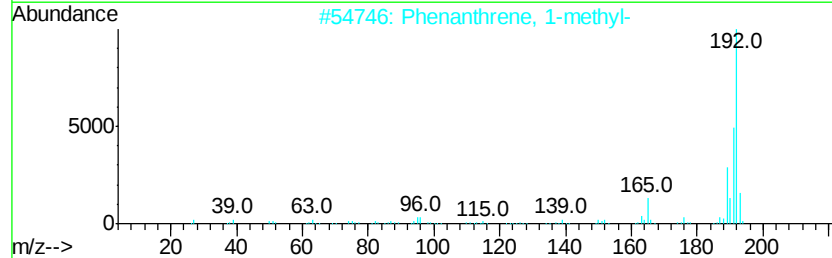
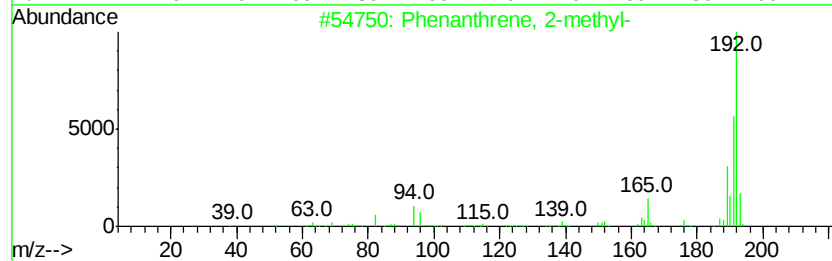
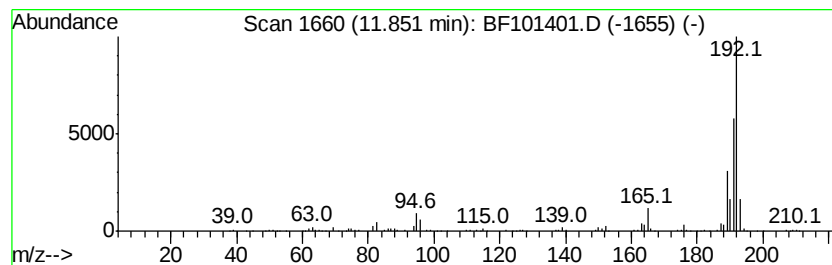
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.85	8.28 ng	688871	Phenanthrene-d10	11.35	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
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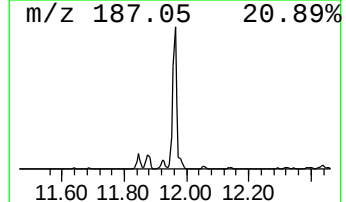
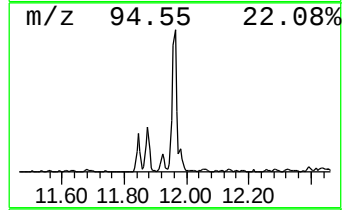
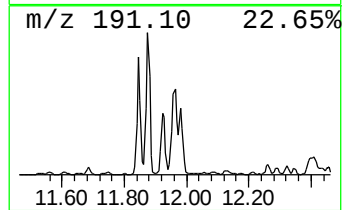
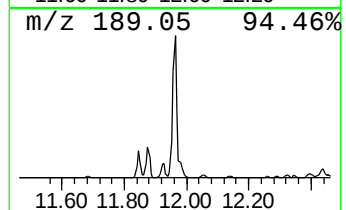
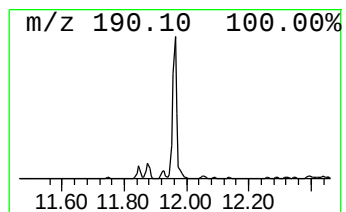
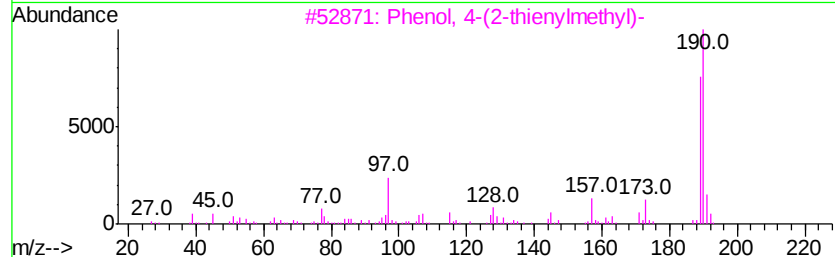
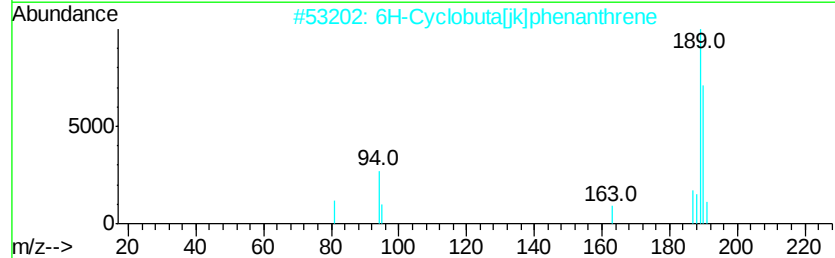
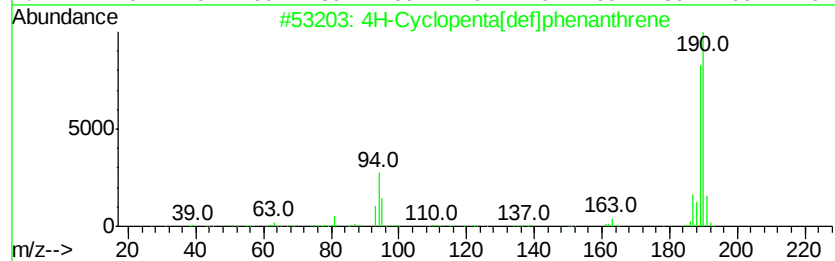
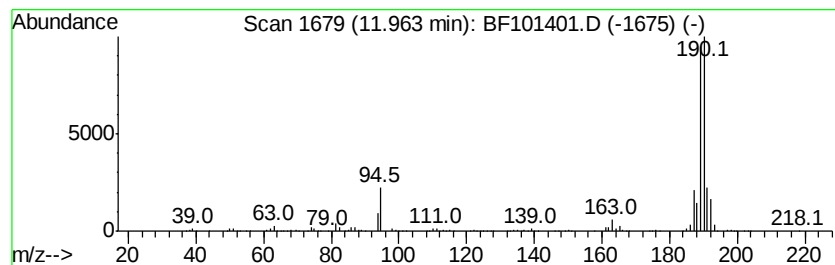
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.96	17.98 ng	1497000	Phenanthrene-d10	11.35	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	97
2	6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	64
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59
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



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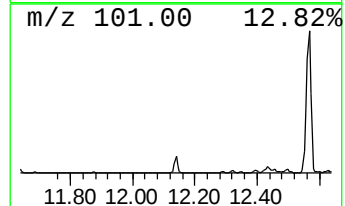
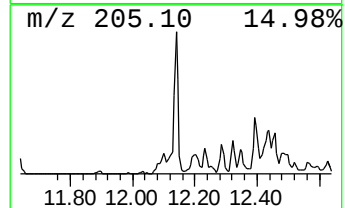
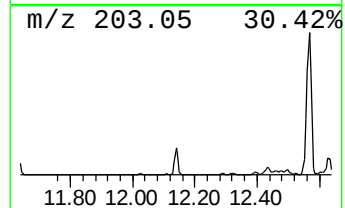
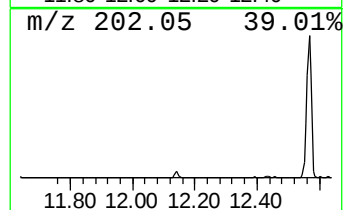
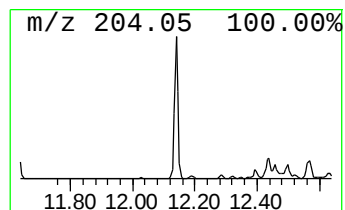
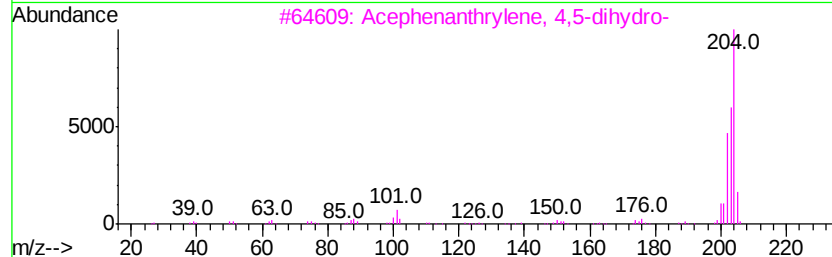
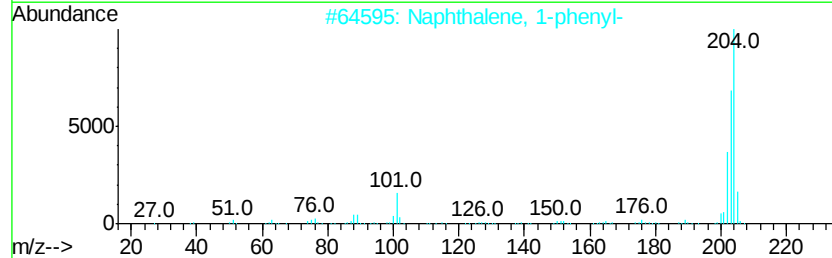
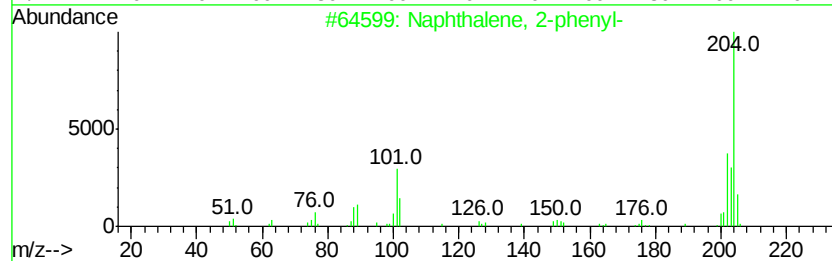
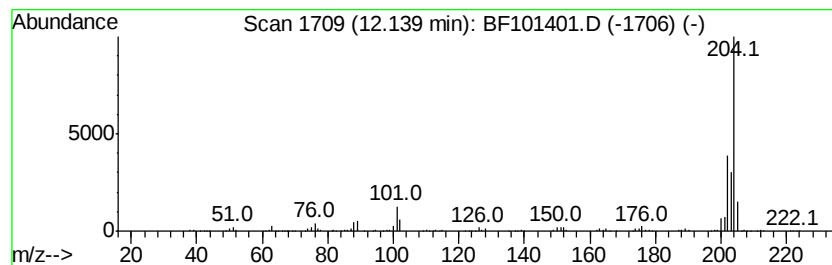
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 1-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	6.20 ng	516085	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
3		Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	47
4		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
5		9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47



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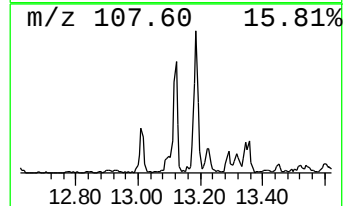
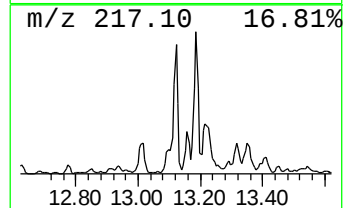
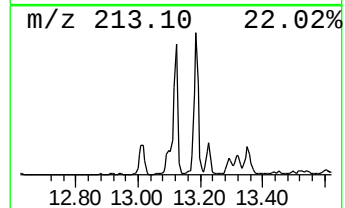
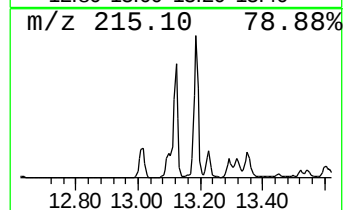
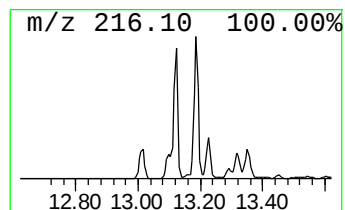
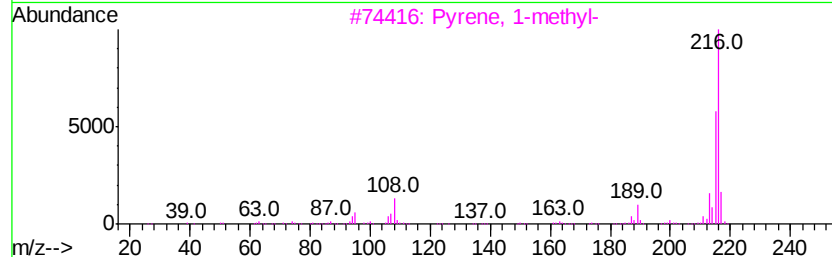
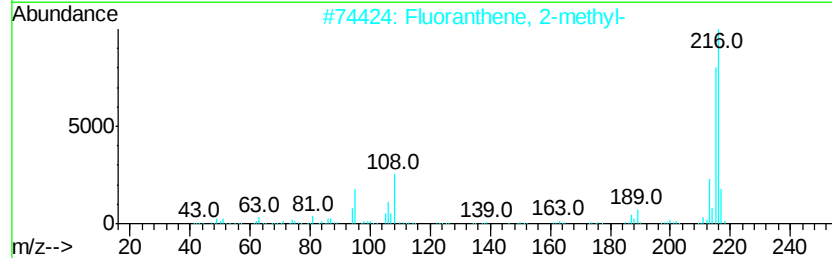
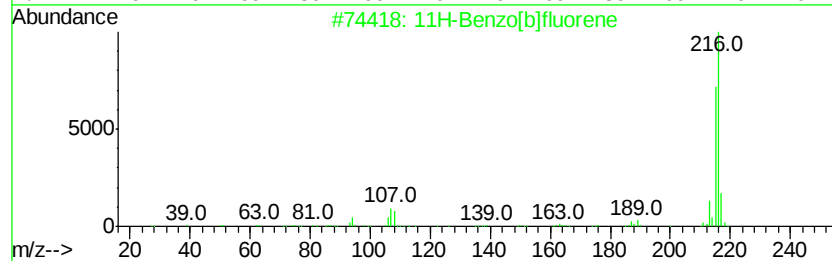
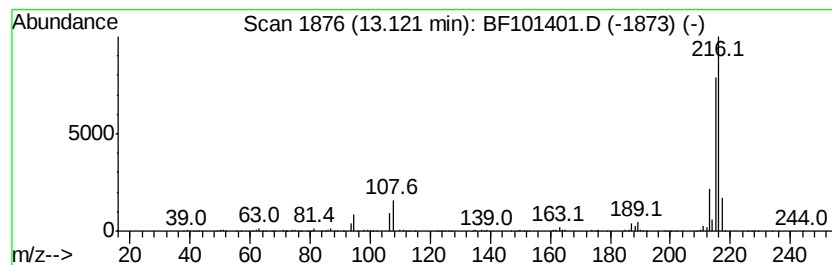
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	5.92 ng	1019690	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3		Pvrene, 1-methyl-	216	C17H12	002381-21-7	87
4		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5		Pyrene, 2-methyl-	216	C17H12	003442-78-2	76



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
Sample : I6835-01 100X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

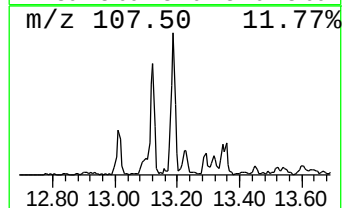
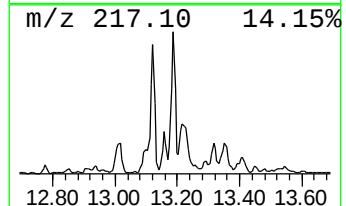
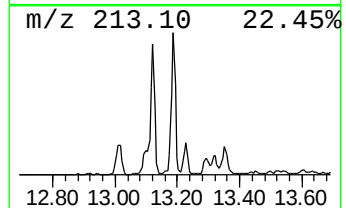
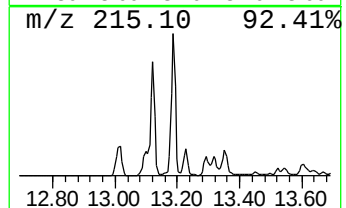
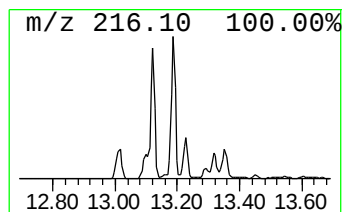
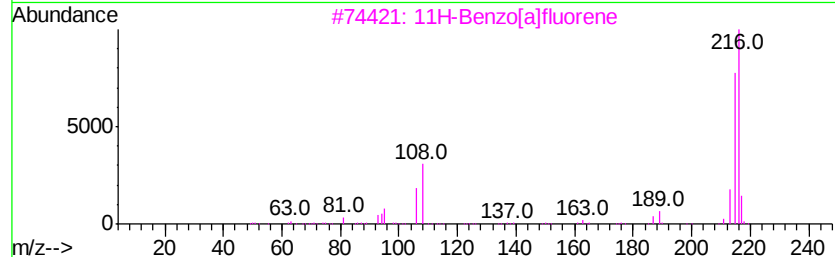
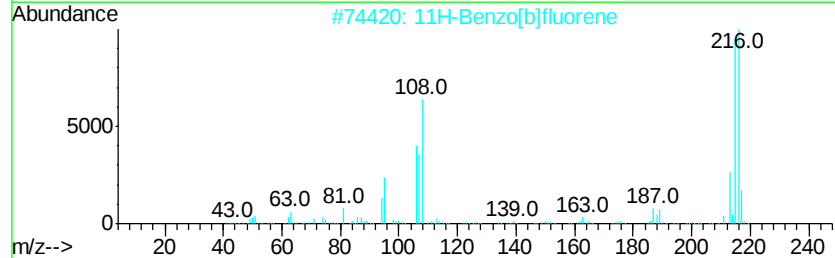
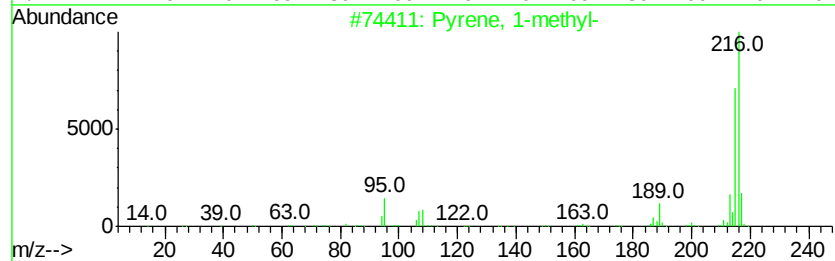
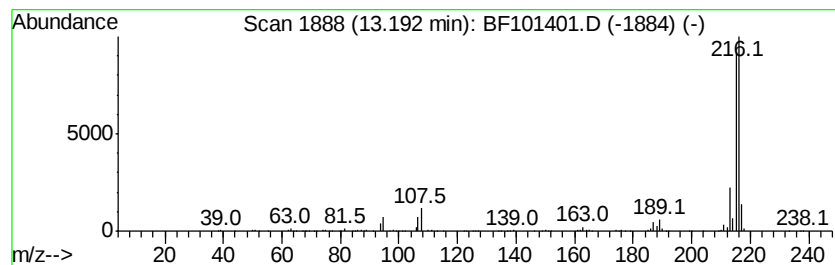
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	6.54 ng	1127240	Chrysene-d12	14.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	60
5			Pyrene, 4-methyl-	216	C17H12	003353-12-6	53



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
Sample : I6835-01 100X
Misc :
ALS Vial : 6 Sample Multiplier: 1

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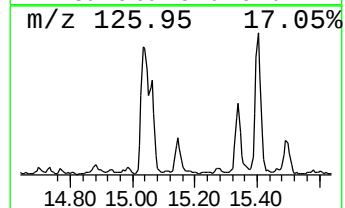
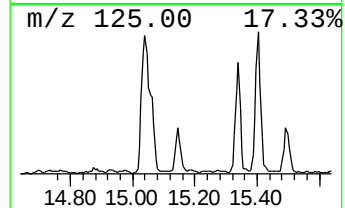
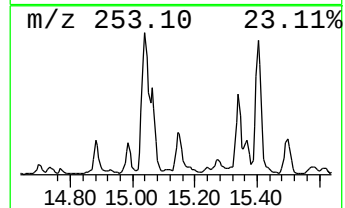
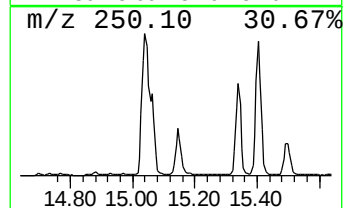
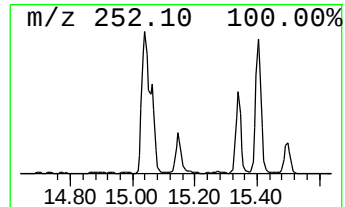
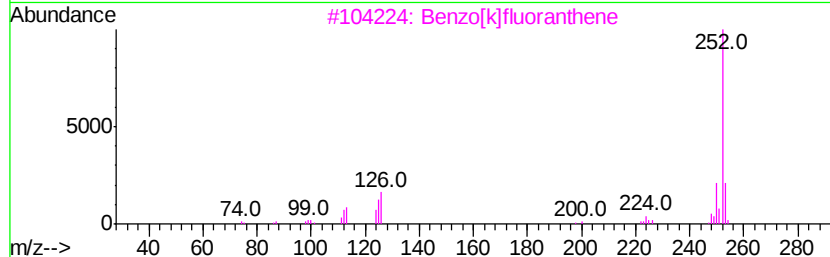
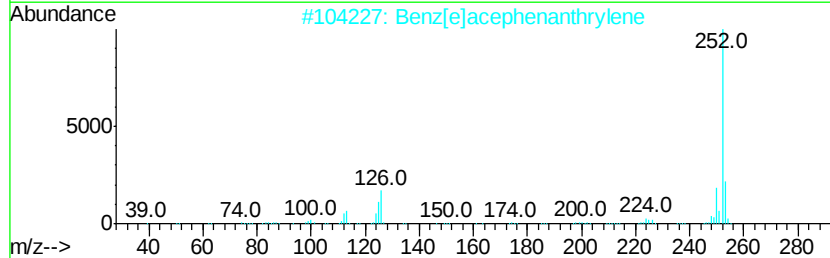
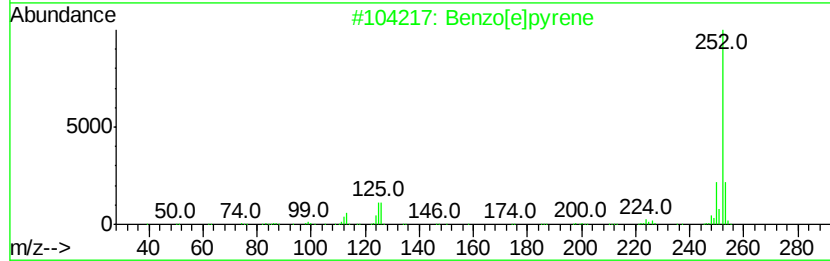
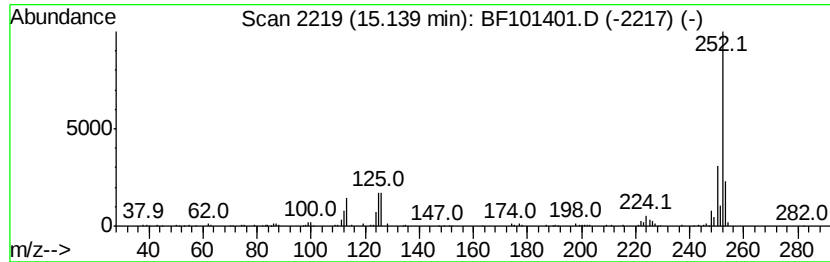
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benzo[e]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	6.50 ng	266985	Perylene-d12	15.46

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]bpvrene	252	C20H12	000192-97-2	98
2			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	96
3			Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4			Benzo[a]bpvrene	252	C20H12	000050-32-8	94
5			Perylene	252	C20H12	000198-55-0	89



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
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Misc :
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Instrument :
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ClientSampleId :
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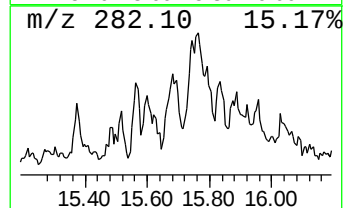
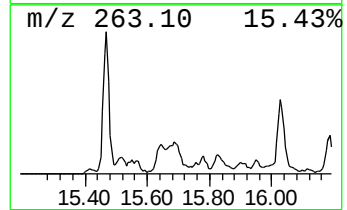
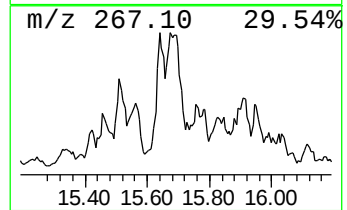
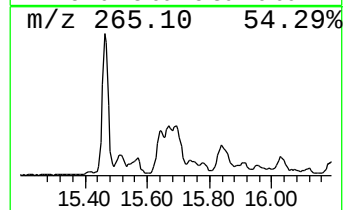
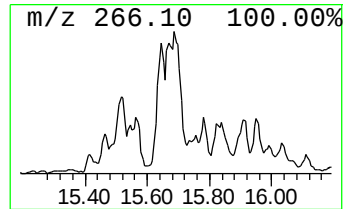
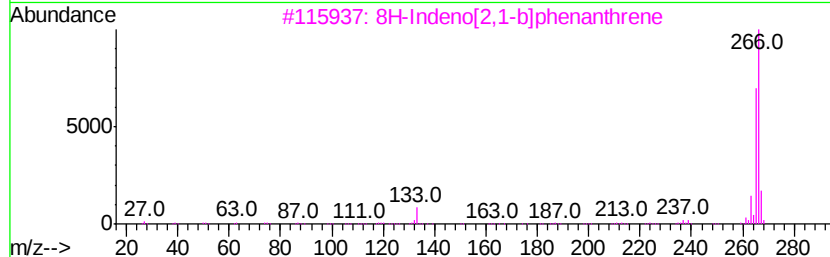
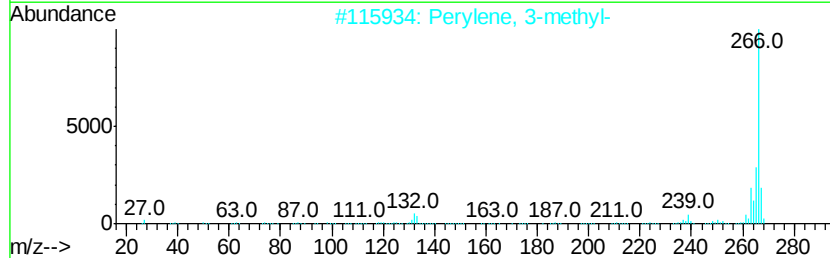
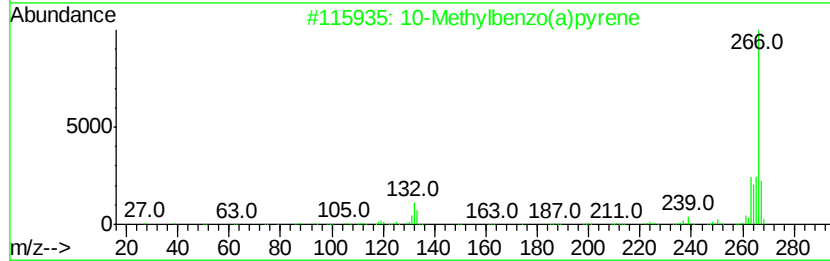
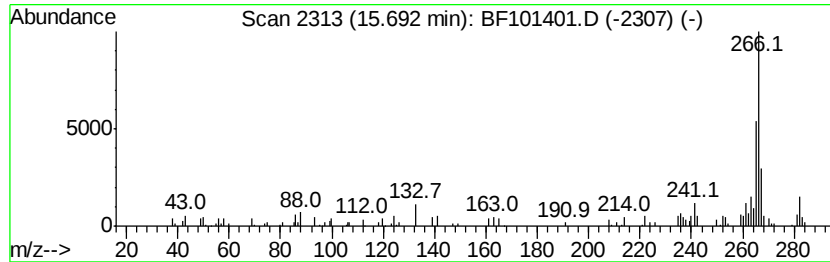
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 10-Methylbenzo(a)pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.69	5.20 ng	213337	Perylene-d12	15.46

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	76
2			Perylene, 3-methyl-	266	C21H14	024471-47-4	47
3			8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	46
4			Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	46
5			1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	46



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
Sample : I6835-01 100X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
WC-4539-02

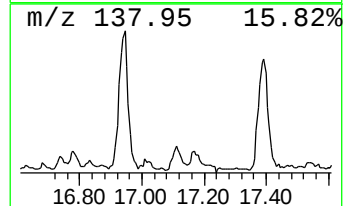
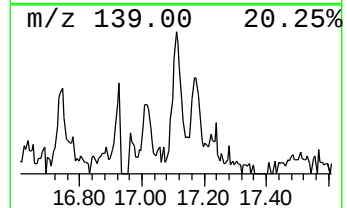
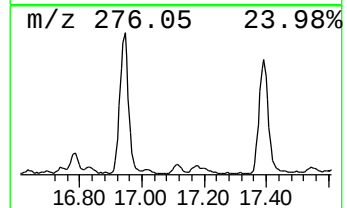
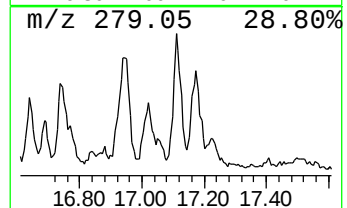
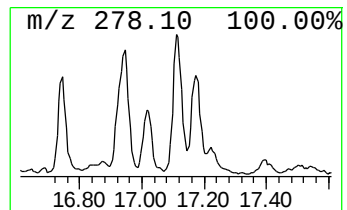
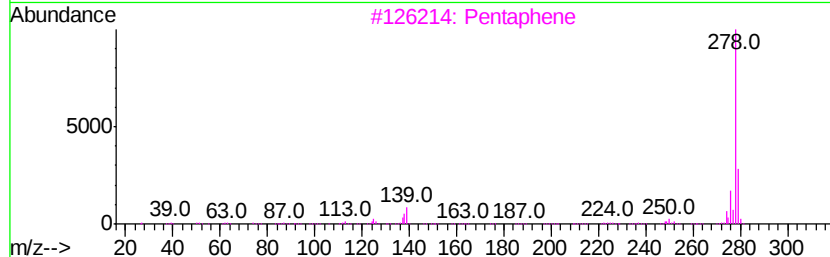
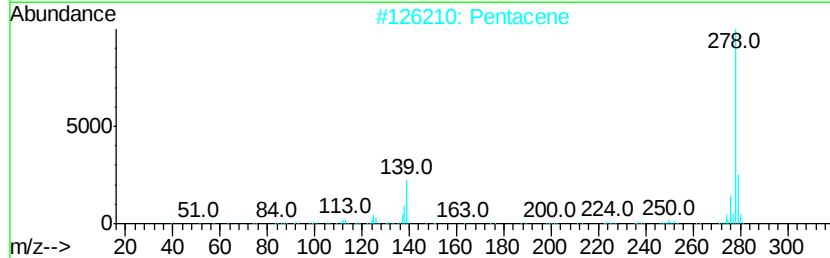
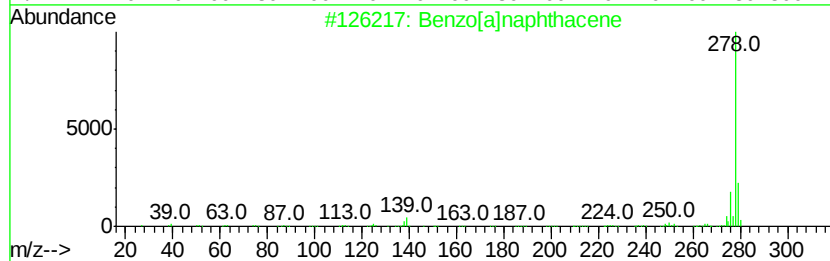
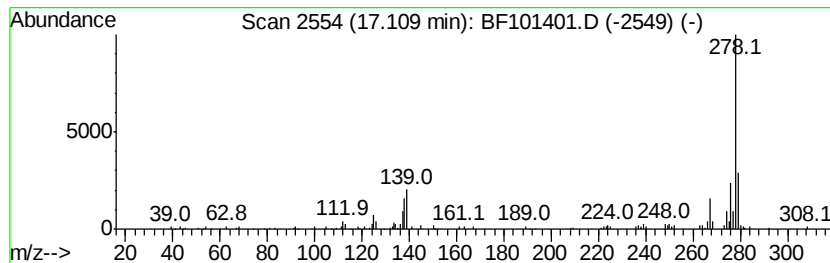
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[a]naphthacene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	4.27 ng	175305	Perylene-d12	15.46

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[a]naphthacene	278	C22H14	000226-88-0	90
2			Pentacene	278	C22H14	000135-48-8	89
3			Pentaphene	278	C22H14	000222-93-5	89
4			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89
5			Benzo[b]triphenylene	278	C22H14	000215-58-7	89



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
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Misc :
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Instrument :
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ClientSampleId :
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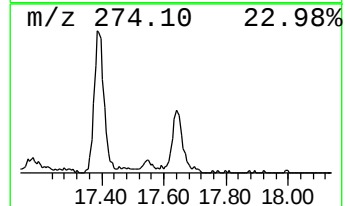
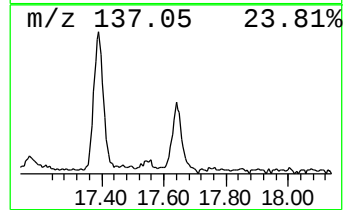
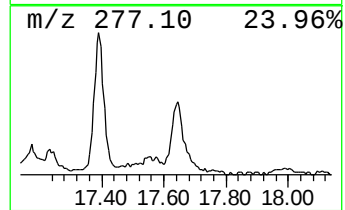
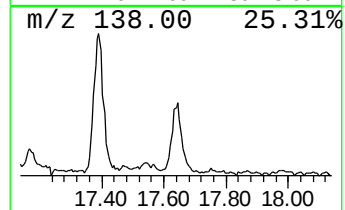
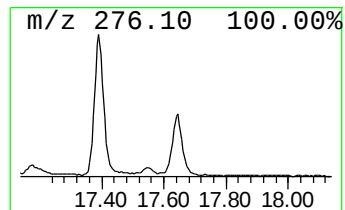
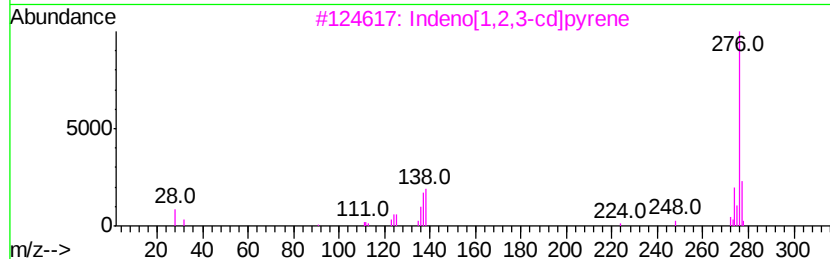
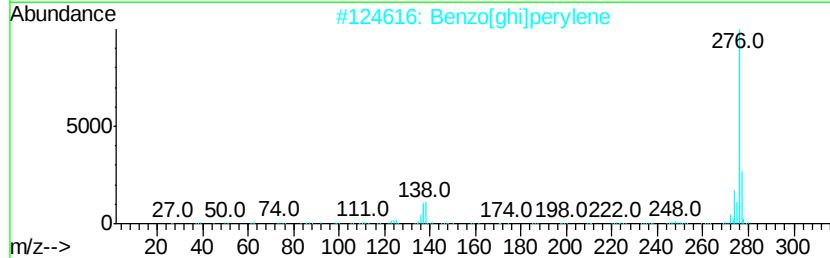
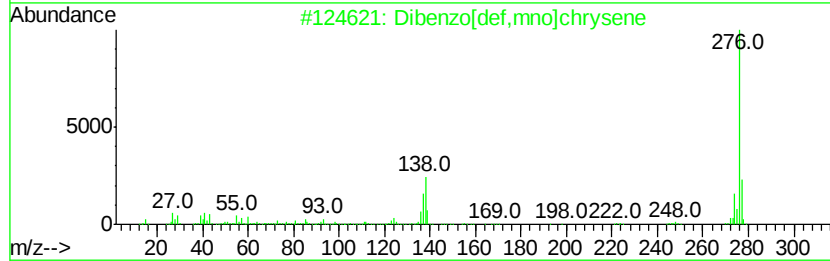
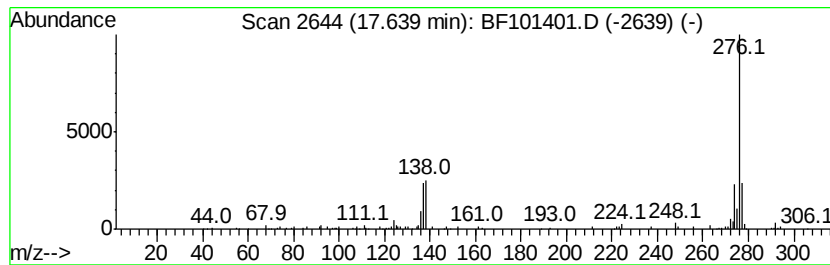
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.64	5.40 ng	221550	Perylene-d12	15.46

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	93
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	90
5		6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	47



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF121417\
 Data File : BF101401.D
 Acq On : 14 Dec 2017 18:56
 Operator : SJ/JU
 Sample : I6835-01 100X
 Misc :
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 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
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Naphthalene, 2,6-...	9.44	7.6	ng	538651	3	9.85	1420580	20.0
Naphthalene, 1,6-...	9.51	7.3	ng	517671	3	9.85	1420580	20.0
[1,1'-Biphenyl]-4...	10.56	6.7	ng	472962	3	9.85	1420580	20.0
9H-Fluorene, 2-me...	10.95	5.1	ng	424907	4	11.35	1664860	20.0
Dibenzothiophene	11.24	7.2	ng	596064	4	11.35	1664860	20.0
Phenanthrene, 2-m...	11.85	8.3	ng	688871	4	11.35	1664860	20.0
4H-Cyclopenta[def...	11.96	18.0	ng	1497000	4	11.35	1664860	20.0
Naphthalene, 1-ph...	12.14	6.2	ng	516085	4	11.35	1664860	20.0
11H-Benzo[b]fluorene	13.12	5.9	ng	1019690	5	14.00	3446120	20.0
Pyrene, 1-methyl-	13.19	6.5	ng	1127240	5	14.00	3446120	20.0
Benzo[e]pyrene	15.14	6.5	ng	266985	6	15.46	821070	20.0
10-Methylbenzo(a)...	15.69	5.2	ng	213337	6	15.46	821070	20.0
Benzo[a]naphthacene	17.11	4.3	ng	175305	6	15.46	821070	20.0
Dibenzo[def,mno]c...	17.64	5.4	ng	221550	6	15.46	821070	20.0