

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101998.D
 Acq On : 10 Jan 2018 23:56
 Operator : SJ/JU
 Sample : J1076-15 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-11R-01

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	3.693	265	273	279	rBV	51444	75141	2.57%	0.217%
2	6.357	722	726	729	rVB2	89746	85344	2.91%	0.247%
3	6.551	755	759	762	rBV2	54798	57468	1.96%	0.166%
4	6.728	785	789	792	rBV	1437202	1284298	43.86%	3.713%
5	6.904	816	819	822	rVB	100051	76777	2.62%	0.222%
6	6.987	828	833	836	rBV	355714	336502	11.49%	0.973%
7	7.128	853	857	861	rVB	59835	56247	1.92%	0.163%
8	8.010	1002	1007	1008	rBV	1940447	1789600	61.11%	5.174%
9	8.034	1008	1011	1014	rVV	3374635	2928401	100.00%	8.466%
10	8.081	1014	1019	1022	rVB	144861	115232	3.93%	0.333%
11	8.722	1123	1128	1131	rBV	862622	706611	24.13%	2.043%
12	8.816	1139	1144	1148	rBV	503611	461479	15.76%	1.334%
13	9.181	1200	1206	1210	rBV	200311	179069	6.11%	0.518%
14	9.281	1220	1223	1228	rVB2	41362	58051	1.98%	0.168%
15	9.345	1228	1234	1238	rBV2	156853	207489	7.09%	0.600%
16	9.416	1242	1246	1249	rVV	212476	220823	7.54%	0.638%
17	9.445	1249	1251	1255	rVV	147064	122696	4.19%	0.355%
18	9.486	1255	1258	1261	rVB	88970	79239	2.71%	0.229%
19	9.533	1264	1266	1277	rVB	101039	108247	3.70%	0.313%
20	9.622	1277	1281	1284	rBV	809080	685783	23.42%	1.983%
21	9.763	1298	1305	1308	rBV	1823161	1735521	59.27%	5.018%
22	9.792	1308	1310	1313	rVB	311899	243937	8.33%	0.705%
23	9.963	1332	1339	1343	rBV	598891	492711	16.83%	1.424%
24	10.075	1354	1358	1360	rBV2	65138	75237	2.57%	0.218%
25	10.104	1360	1363	1369	rVB2	58303	58074	1.98%	0.168%
26	10.163	1369	1373	1375	rBV3	59402	69343	2.37%	0.200%
27	10.210	1379	1381	1384	rVB2	76129	59883	2.04%	0.173%
28	10.304	1394	1397	1403	rVB	998280	875961	29.91%	2.532%
29	10.463	1421	1424	1427	rBV	137776	114818	3.92%	0.332%
30	10.528	1432	1435	1436	rVV	144244	126411	4.32%	0.365%
31	10.539	1436	1437	1442	rVV	149227	160779	5.49%	0.465%
32	10.669	1456	1459	1466	rVB	93737	91232	3.12%	0.264%
33	10.851	1485	1490	1493	rBV	151781	167171	5.71%	0.483%
34	10.880	1493	1495	1498	rVV2	69172	58771	2.01%	0.170%

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101998.D
 Acq On : 10 Jan 2018 23:56
 Operator : SJ/JU
 Sample : J1076-15 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-11R-01

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

35	10.933	1501	1504	1508	rBV2	69875	65090	2.22%	0.188%
36	11.051	1521	1524	1527	rVB2	64232	62064	2.12%	0.179%
37	11.086	1527	1530	1533	rVV3	59936	66051	2.26%	0.191%
38	11.116	1533	1535	1536	rVV	76255	56776	1.94%	0.164%
39	11.139	1536	1539	1547	rVB	350861	317321	10.84%	0.917%
40	11.245	1553	1557	1559	rBV	1523916	1581384	54.00%	4.572%
41	11.269	1559	1561	1564	rVV	3119769	2326752	79.45%	6.727%
42	11.316	1566	1569	1572	rVV	1034146	807955	27.59%	2.336%
43	11.351	1572	1575	1578	rVV2	63926	65275	2.23%	0.189%
44	11.469	1593	1595	1598	rVB	219515	189042	6.46%	0.547%
45	11.539	1605	1607	1610	rBV3	121979	93272	3.19%	0.270%
46	11.569	1610	1612	1616	rVB2	112600	105156	3.59%	0.304%
47	11.657	1623	1627	1631	rVB	89113	98598	3.37%	0.285%
48	11.739	1638	1641	1644	rBV	289996	283642	9.69%	0.820%
49	11.769	1644	1646	1651	rVB	436146	355966	12.16%	1.029%
50	11.816	1651	1654	1657	rBV	169863	155352	5.31%	0.449%
51	11.851	1657	1660	1663	rBV	546872	554871	18.95%	1.604%
52	11.874	1663	1664	1667	rVB	205220	119954	4.10%	0.347%
53	11.945	1674	1676	1679	rVB	96394	78635	2.69%	0.227%
54	12.039	1689	1692	1694	rBV	197600	164556	5.62%	0.476%
55	12.216	1720	1722	1724	rVV	73478	61555	2.10%	0.178%
56	12.239	1724	1726	1729	rVB	73450	59987	2.05%	0.173%
57	12.292	1731	1735	1737	rBV	167315	182428	6.23%	0.527%
58	12.333	1737	1742	1746	rVB3	122195	237304	8.10%	0.686%
59	12.374	1746	1749	1753	rBV2	65046	78917	2.69%	0.228%
60	12.451	1758	1762	1766	rBV	1777703	1544549	52.74%	4.465%
61	12.545	1775	1778	1781	rVB	298701	255742	8.73%	0.739%
62	12.604	1781	1788	1795	rVB3	93179	172287	5.88%	0.498%
63	12.680	1795	1801	1804	rBV	1584526	1521114	51.94%	4.398%
64	12.727	1807	1809	1814	rVB3	86549	111182	3.80%	0.321%
65	12.798	1817	1821	1823	rBV	89408	84885	2.90%	0.245%
66	12.833	1823	1827	1832	rVB2	76753	118762	4.06%	0.343%
67	12.898	1832	1838	1841	rBV3	101674	172078	5.88%	0.497%
68	12.980	1849	1852	1853	rBV3	67871	62175	2.12%	0.180%
69	13.004	1853	1856	1859	rVB	305048	289732	9.89%	0.838%
70	13.069	1864	1867	1870	rVB2	294599	281670	9.62%	0.814%
71	13.110	1870	1874	1878	rBV2	146395	152110	5.19%	0.440%

Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
 Data File : BF101998.D
 Acq On : 10 Jan 2018 23:56
 Operator : SJ/JU
 Sample : J1076-15 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-11R-01

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

72	13.174	1882	1885	1887	rBV	118011	117392	4.01%	0.339%
73	13.198	1887	1889	1892	rVB	85828	71603	2.45%	0.207%
74	13.233	1892	1895	1899	rBV	83427	87120	2.98%	0.252%
75	13.404	1921	1924	1927	rBV3	52411	55695	1.90%	0.161%
76	13.621	1956	1961	1964	rBV	128764	178625	6.10%	0.516%
77	13.651	1964	1966	1968	rVV	112922	94029	3.21%	0.272%
78	13.674	1968	1970	1976	rVB3	68270	89565	3.06%	0.259%
79	13.874	1999	2004	2006	rBV2	1286127	1655090	56.52%	4.785%
80	13.898	2006	2008	2011	rVB	517072	383551	13.10%	1.109%
81	14.257	2065	2069	2073	rVV	145369	195316	6.67%	0.565%
82	14.292	2073	2075	2078	rVV2	75748	65089	2.22%	0.188%
83	14.351	2082	2085	2088	rVV2	115135	121989	4.17%	0.353%
84	14.380	2088	2090	2092	rVV	76368	79201	2.70%	0.229%
85	14.404	2092	2094	2098	rVV2	117960	127186	4.34%	0.368%
86	14.886	2172	2176	2179	rBV	437080	662891	22.64%	1.916%
87	14.986	2190	2193	2197	rVB	155816	171664	5.86%	0.496%
88	15.174	2220	2225	2230	rVV	280606	346894	11.85%	1.003%
89	15.233	2230	2235	2239	rVV	484410	561257	19.17%	1.623%
90	15.292	2240	2245	2248	rVV	909225	1106305	37.78%	3.198%
91	15.321	2248	2250	2256	rVB2	156502	196020	6.69%	0.567%
92	15.633	2299	2303	2309	rVB6	42695	87455	2.99%	0.253%
93	15.751	2318	2323	2325	rBV3	38601	59474	2.03%	0.172%
94	15.815	2331	2334	2341	rVB2	54257	88785	3.03%	0.257%
95	16.504	2442	2451	2458	rVB5	37758	121651	4.15%	0.352%
96	16.657	2472	2477	2485	rVB2	194075	381535	13.03%	1.103%
97	16.833	2502	2507	2511	rVB	38885	71213	2.43%	0.206%
98	16.886	2511	2516	2520	rBV2	39431	78253	2.67%	0.226%
99	17.068	2541	2547	2556	rBV	148547	318742	10.88%	0.922%
100	17.292	2581	2585	2592	rVB2	64213	116740	3.99%	0.338%

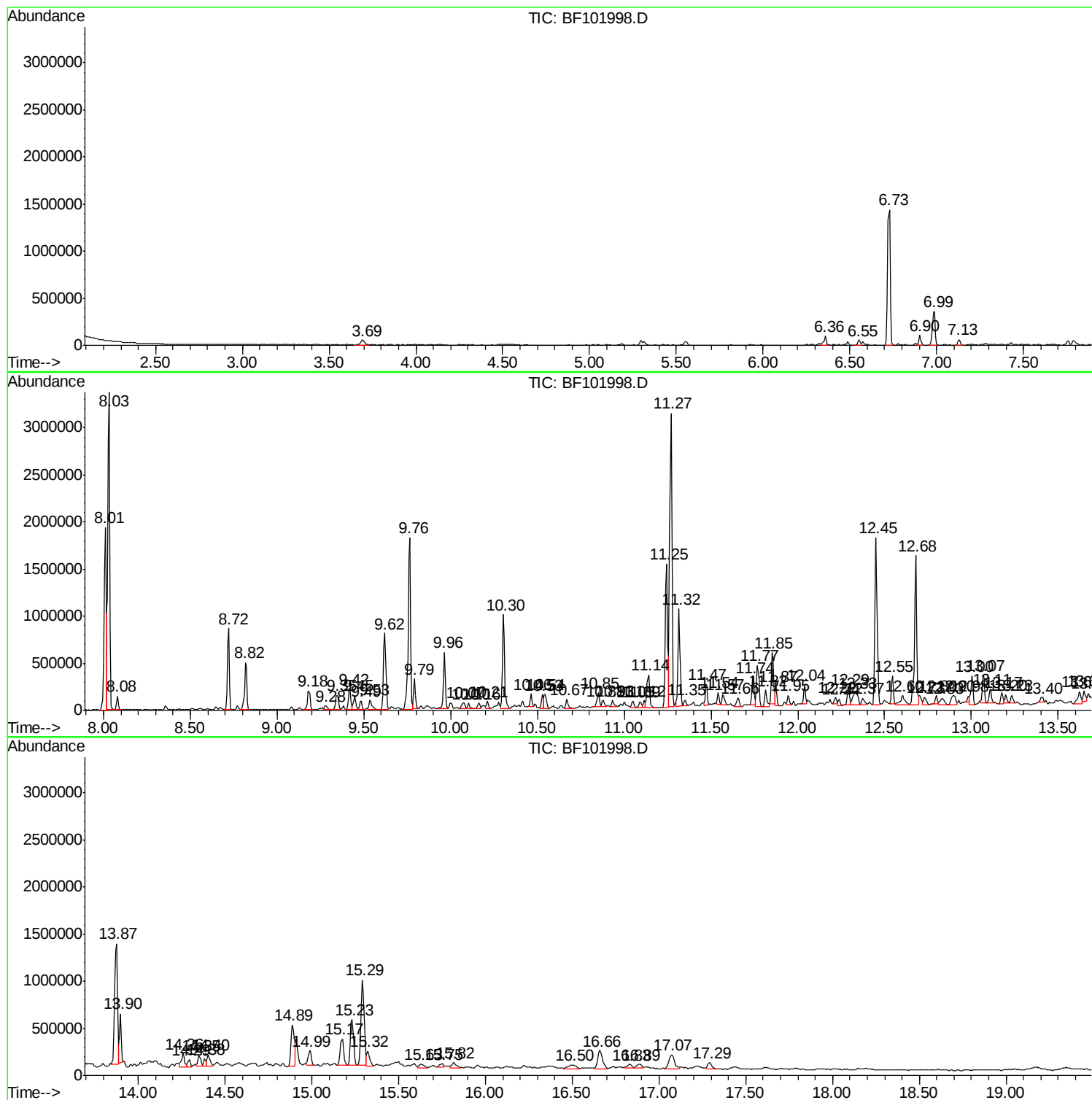
Sum of corrected areas: 34588865

Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

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



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

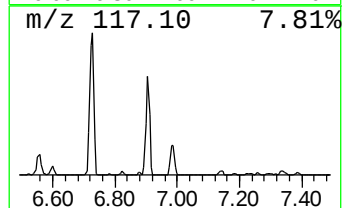
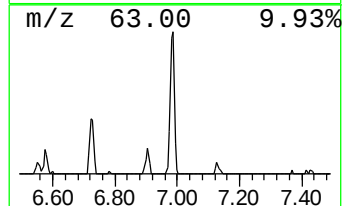
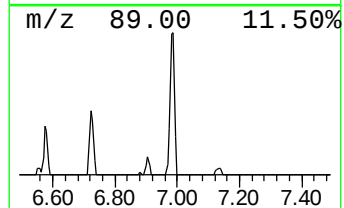
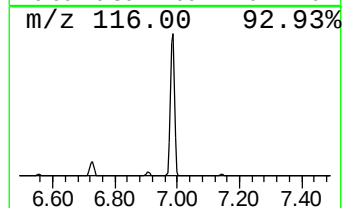
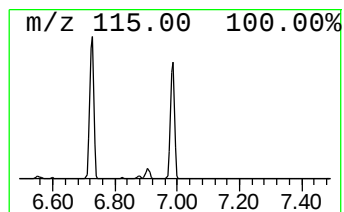
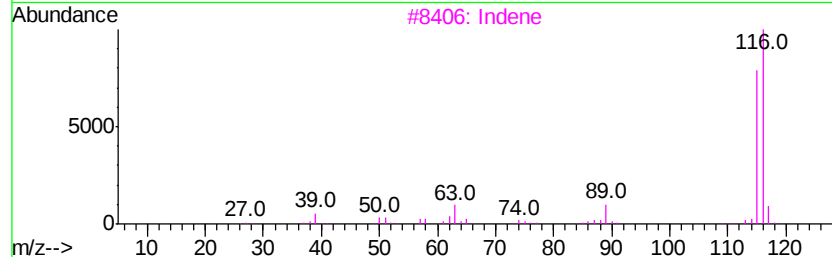
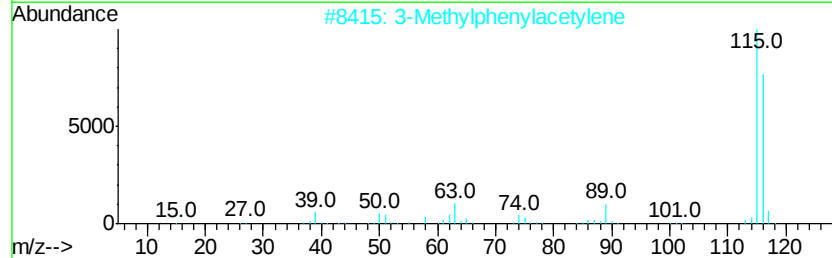
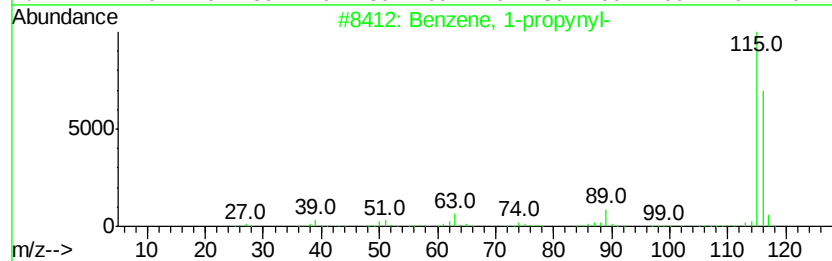
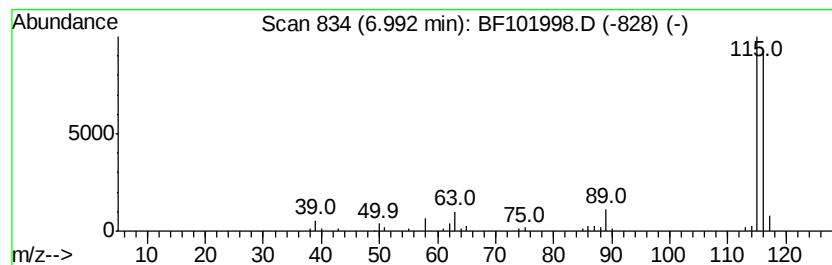
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzene, 1-propynyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.99	5.24 ng	336502	1,4-Dichlorobenzene-d4	6.73

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1-propynyl-	116	C9H8	000673-32-5	95
2		3-Methylphenylacetylene	116	C9H8	000766-82-5	94
3		Indene	116	C9H8	000095-13-6	93
4		2-Methylphenylacetylene	116	C9H8	000766-47-2	91
5		Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	91



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

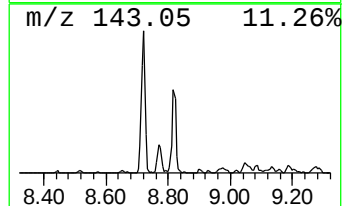
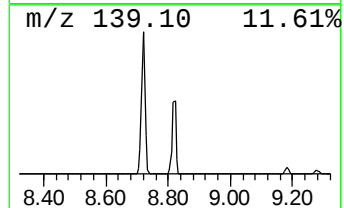
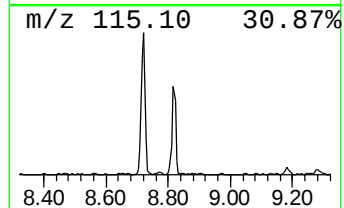
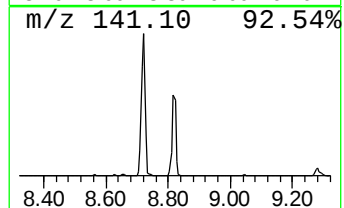
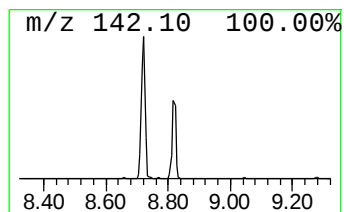
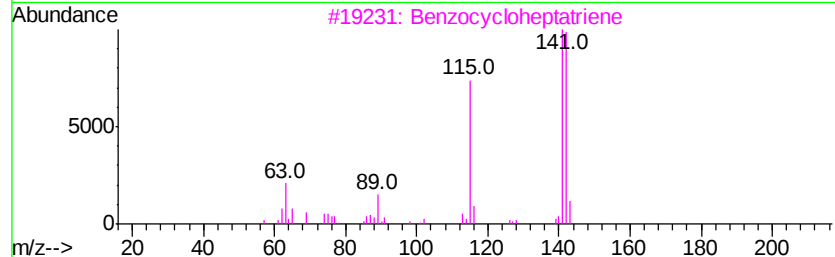
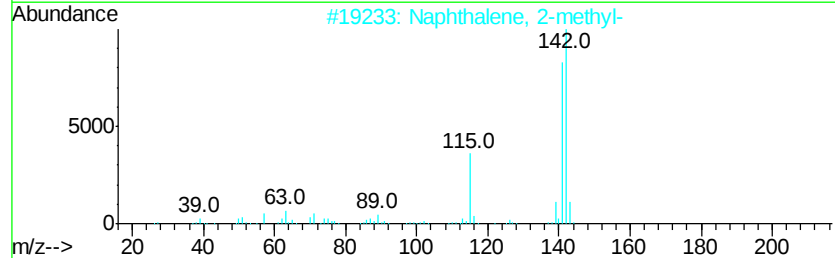
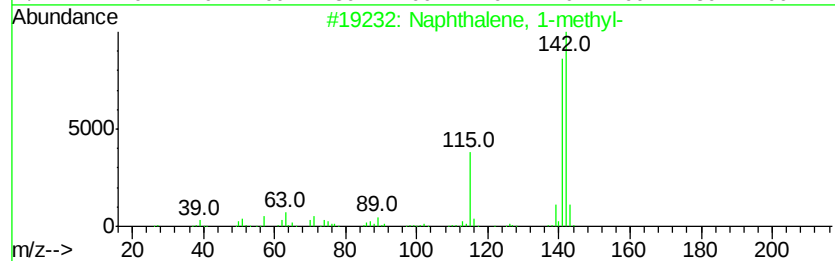
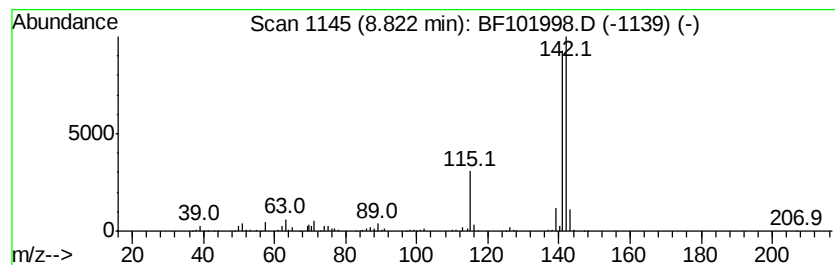
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.82	5.16 ng	461479	Naphthalene-d8	8.01

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
2		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
3		Benzocycloheptatriene	142	C11H10	000264-09-5	91
4		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5		Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	87



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

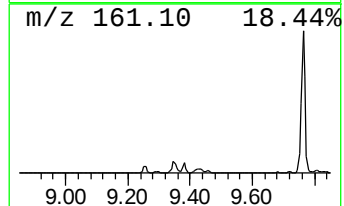
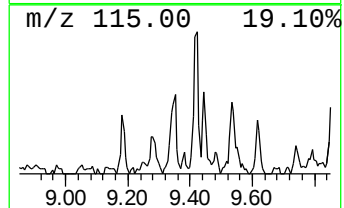
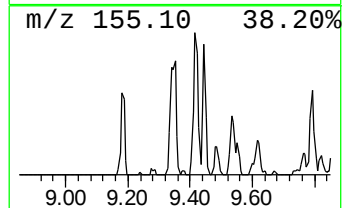
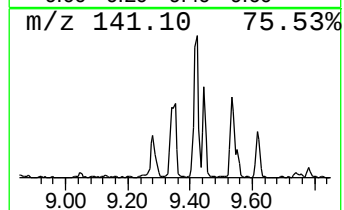
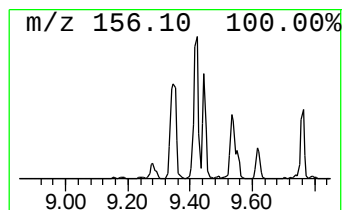
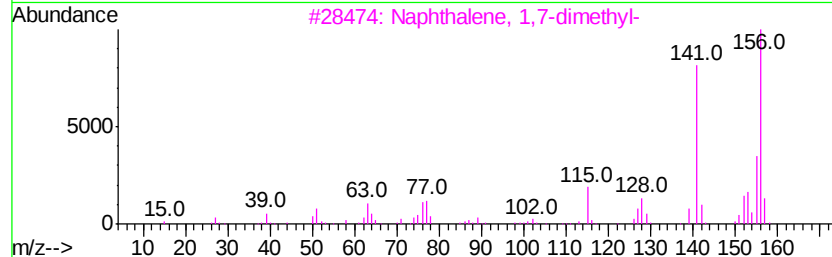
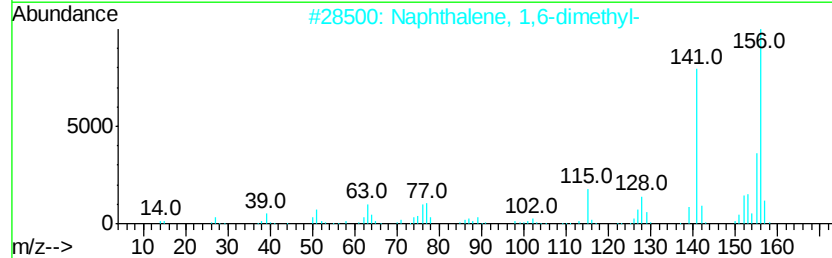
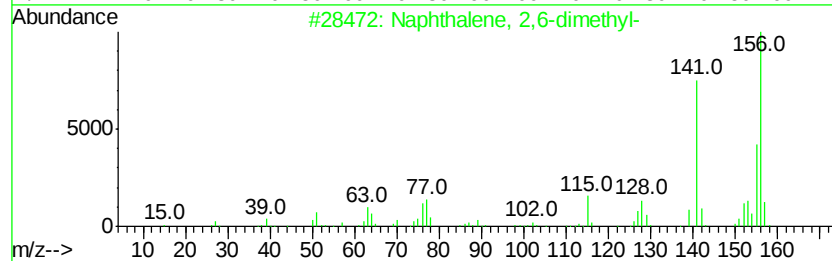
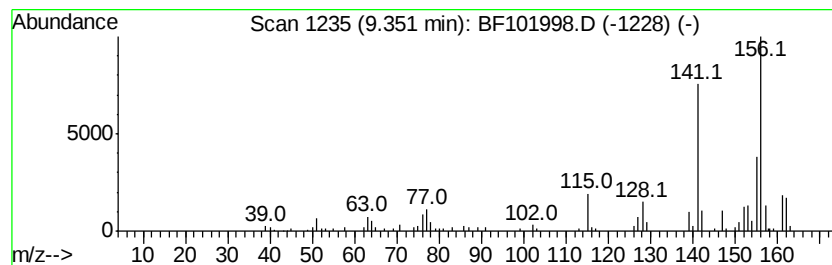
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	2.39 ng	207489	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, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
4		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

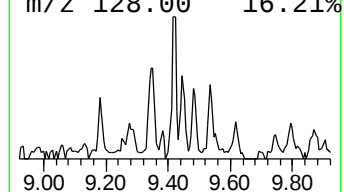
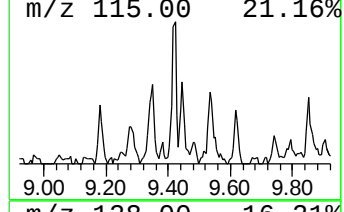
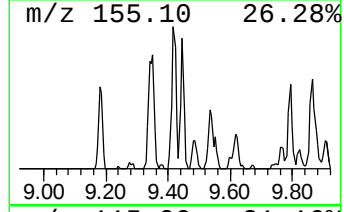
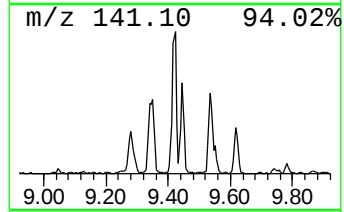
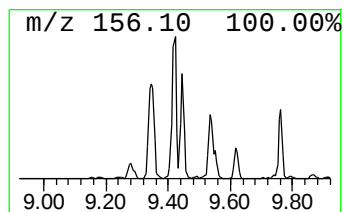
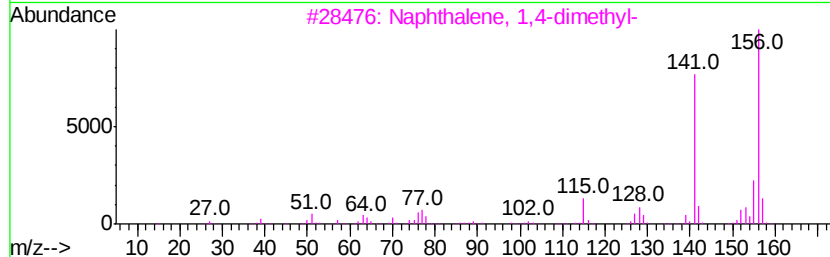
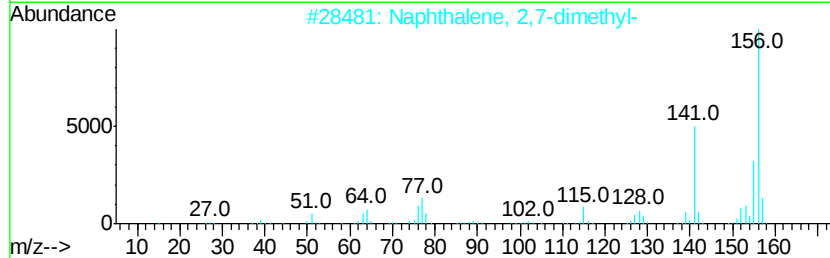
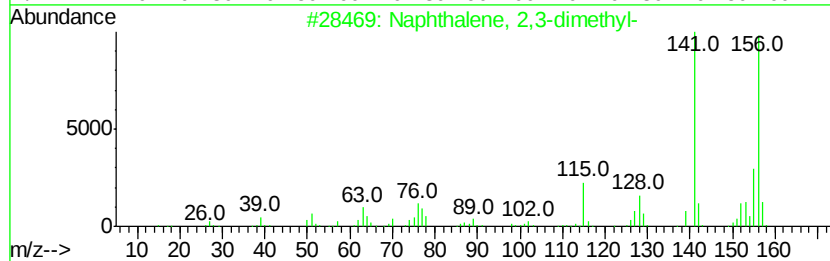
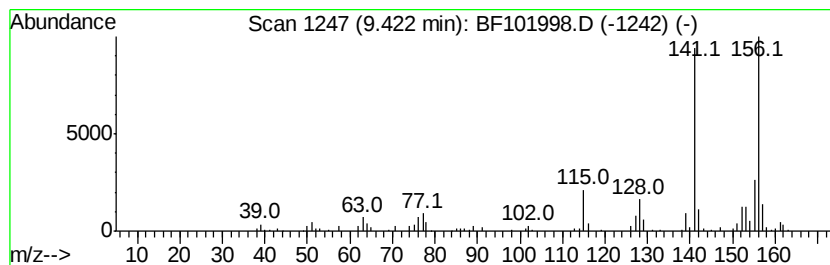
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	2.54 ng	220823	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, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

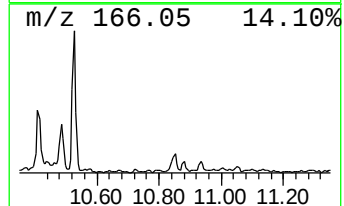
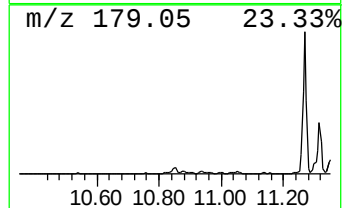
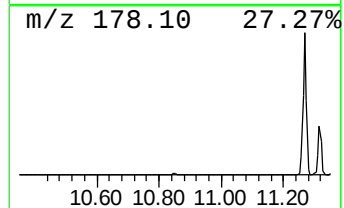
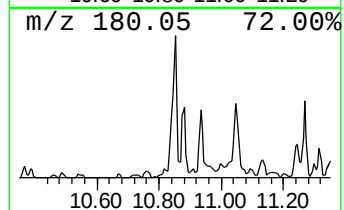
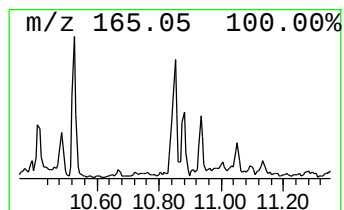
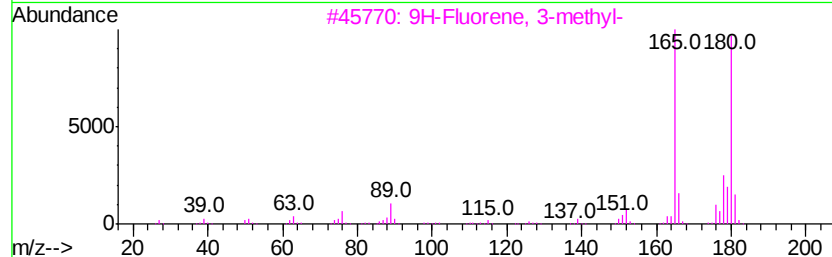
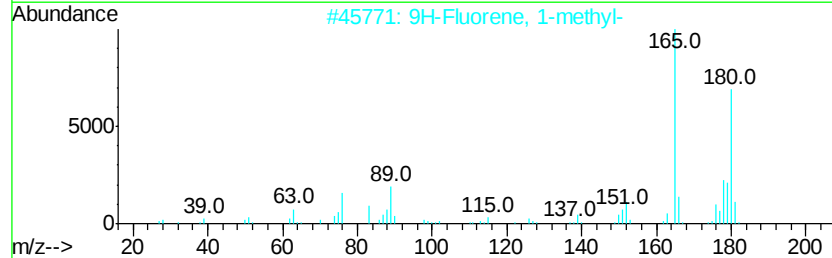
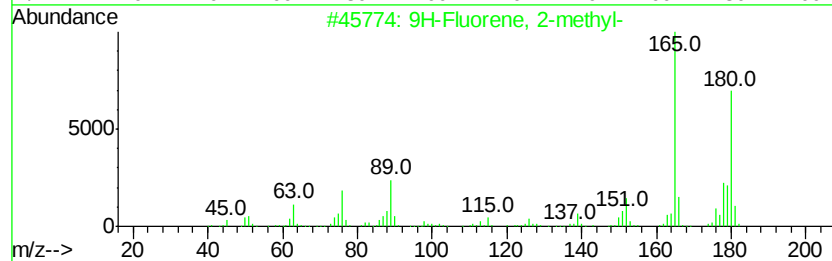
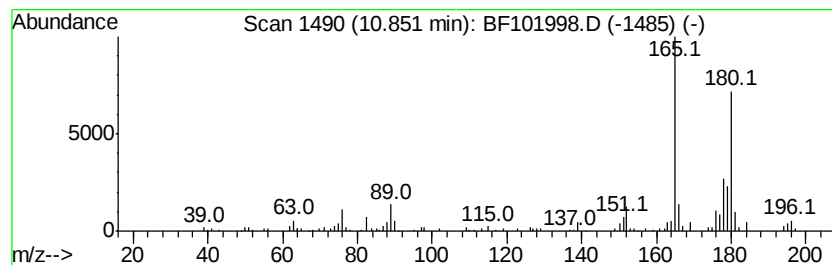
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	2.11 ng	167171	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4		4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86
5		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

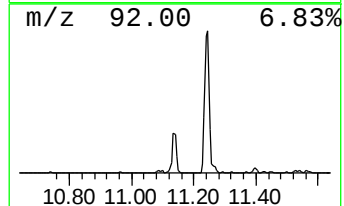
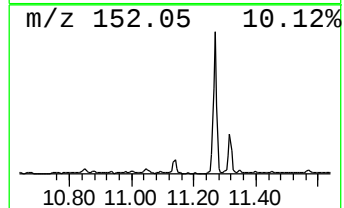
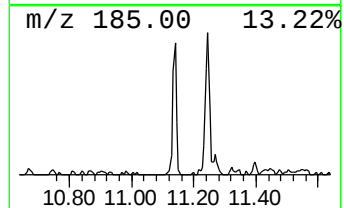
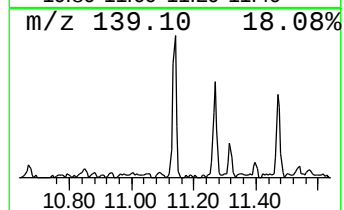
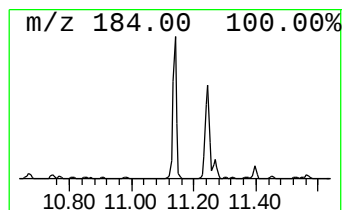
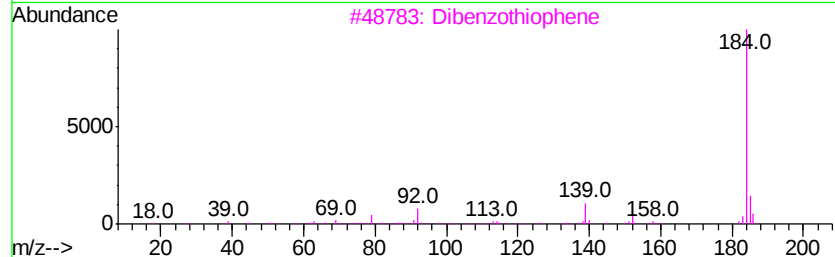
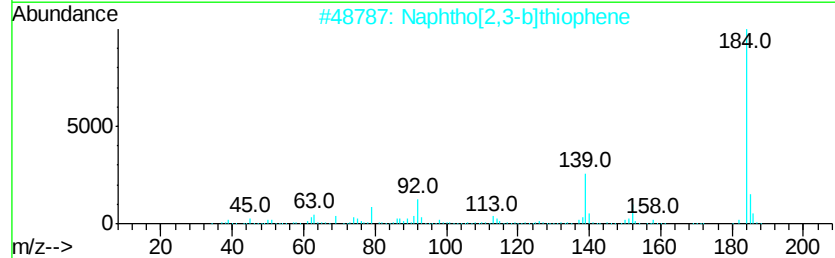
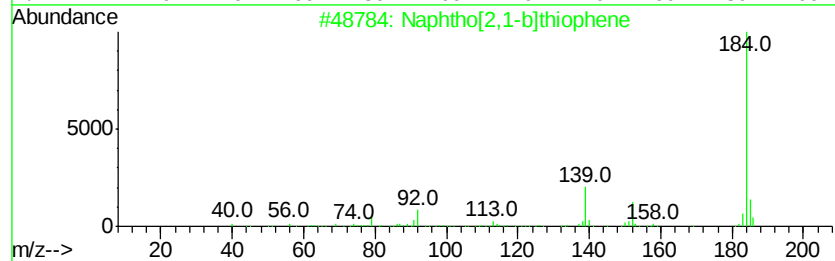
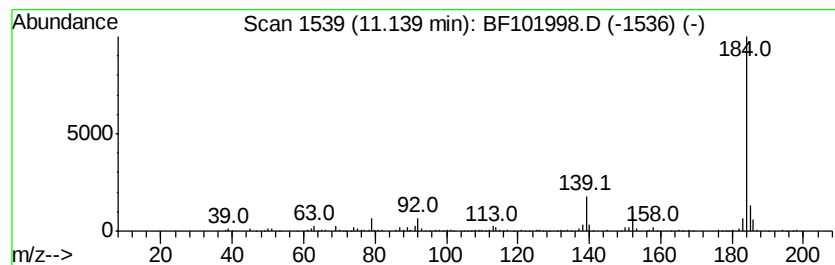
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphtho[2,1-b]thiophene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	4.01 ng	317321	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3		Dibenzothiophene	184	C12H8S	000132-65-0	94
4		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

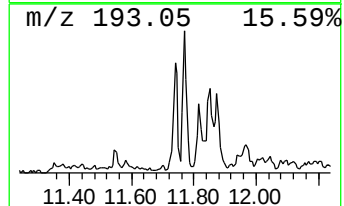
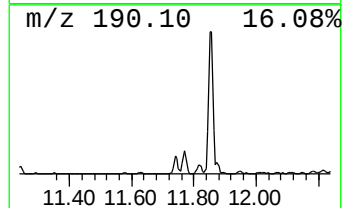
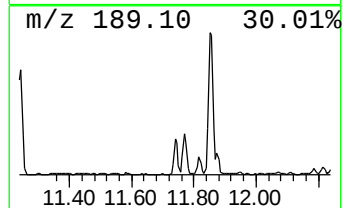
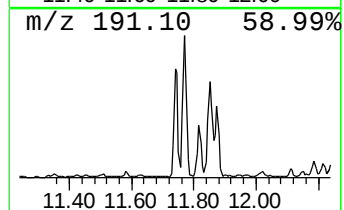
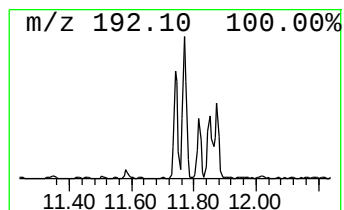
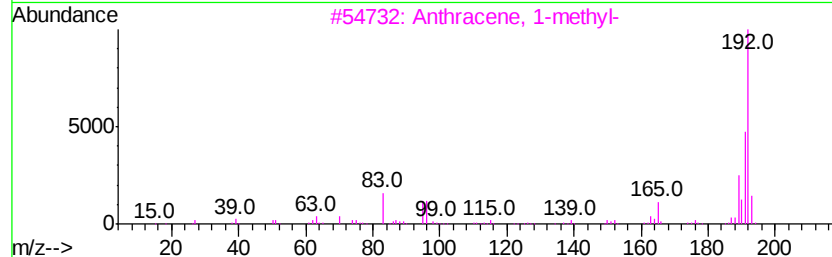
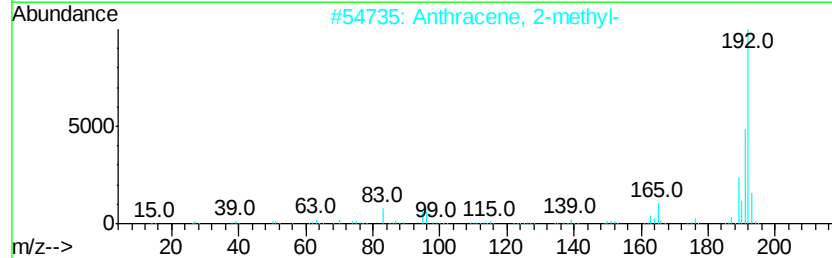
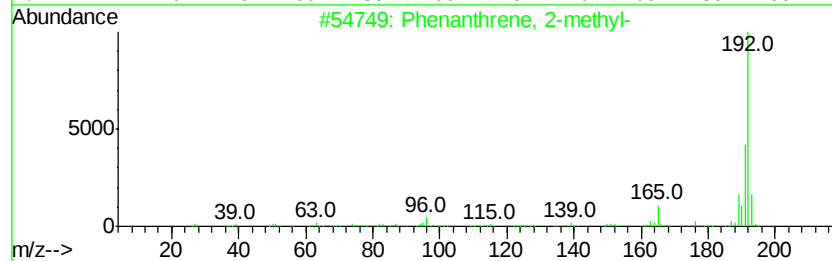
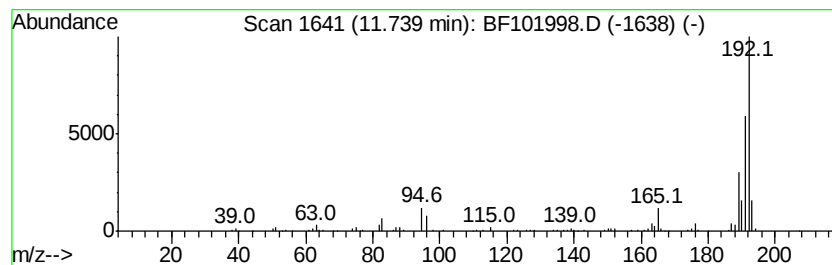
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	3.59 ng	283642	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

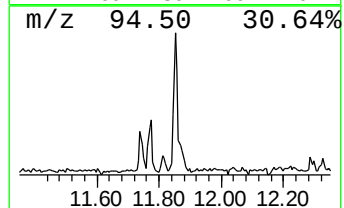
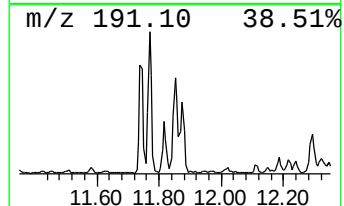
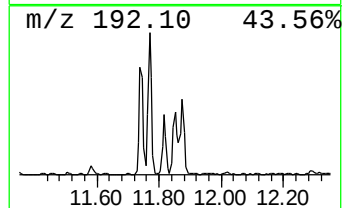
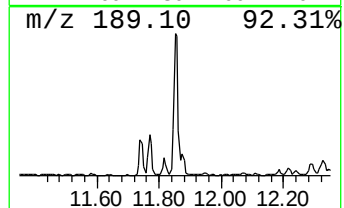
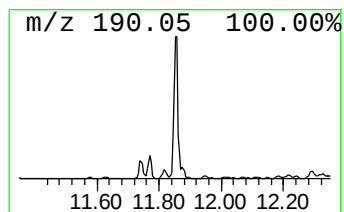
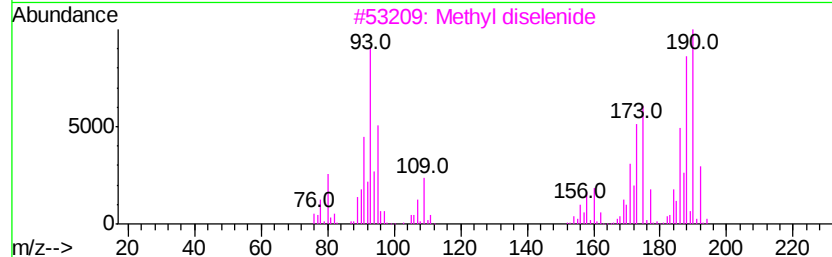
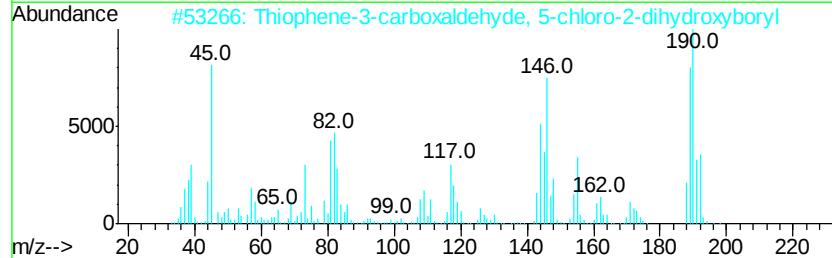
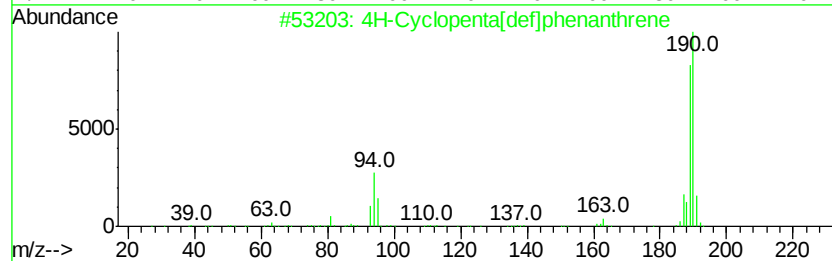
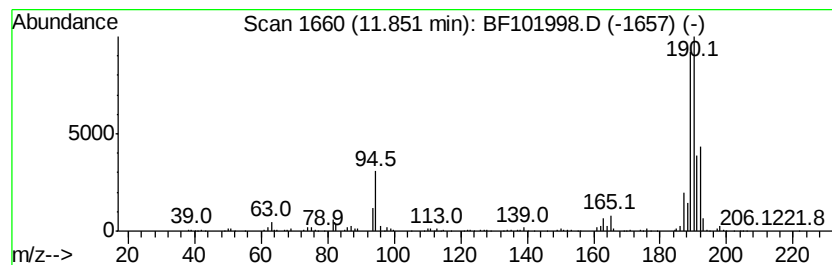
Instrument :
BNA_F
ClientSampleId :
WC-11R-01

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 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.85	7.02 ng	554871	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	Methyl diselenide	190	C2H6Se2	007101-31-7	38
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	32
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	28



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

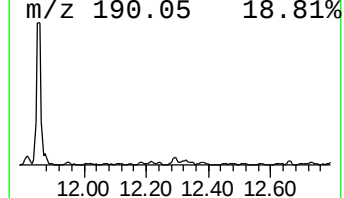
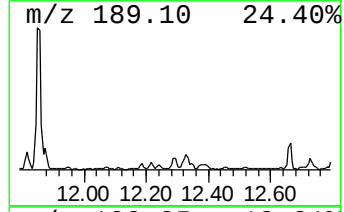
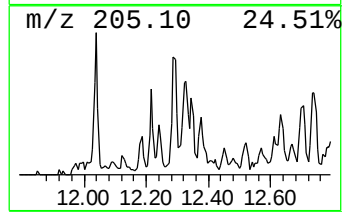
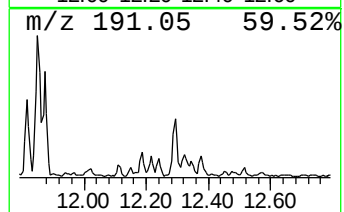
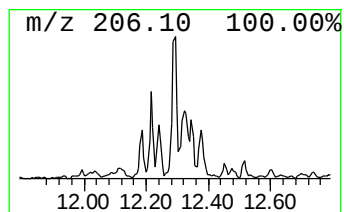
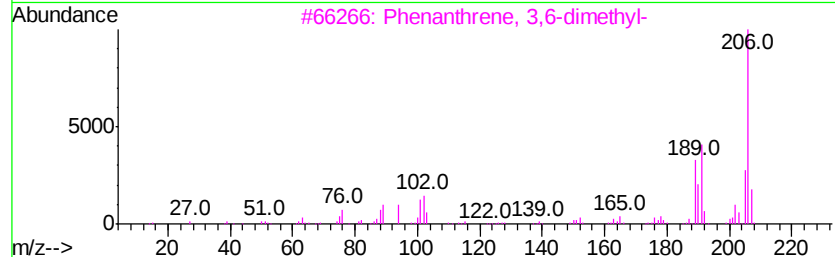
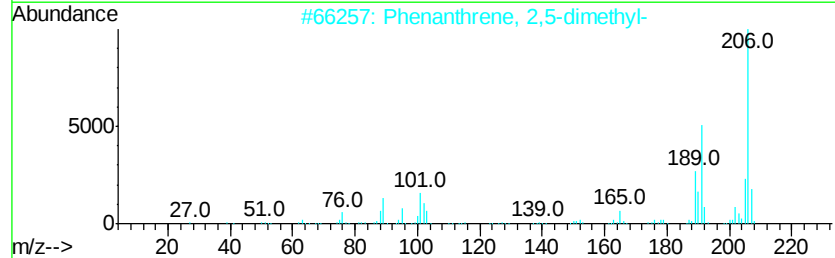
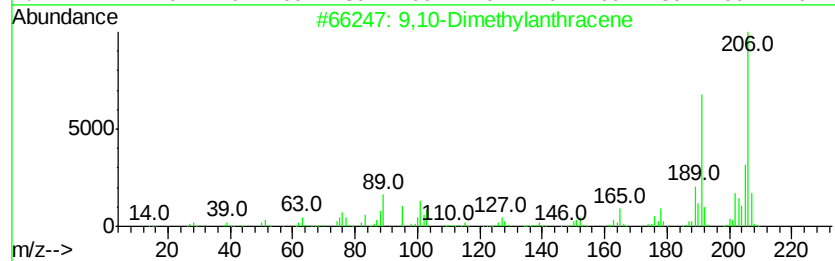
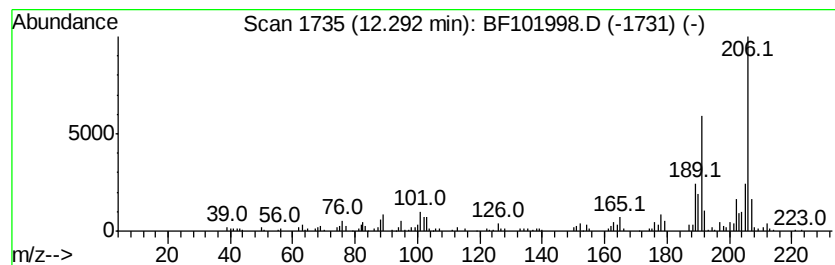
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 9,10-Dimethylantracene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	2.31 ng	182428	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	97
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
3		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4		1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	91
5		1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

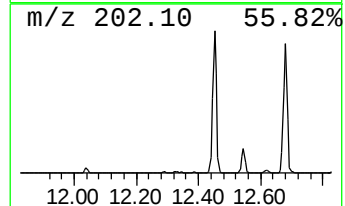
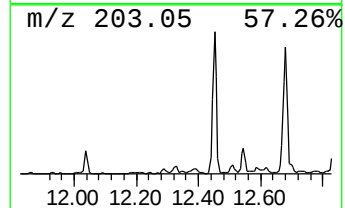
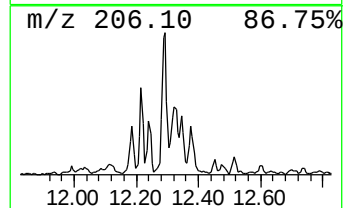
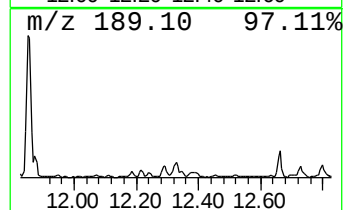
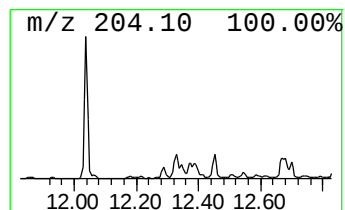
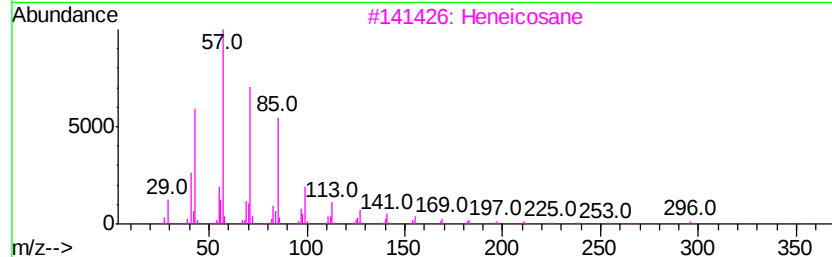
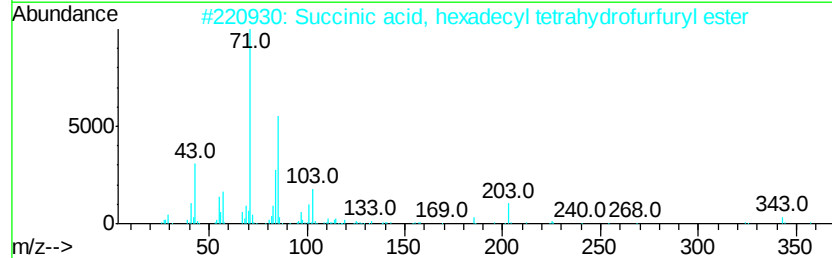
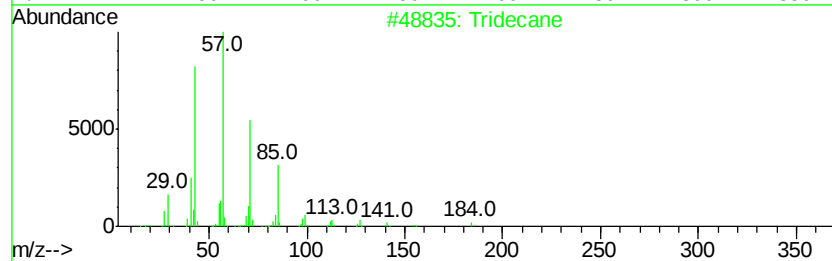
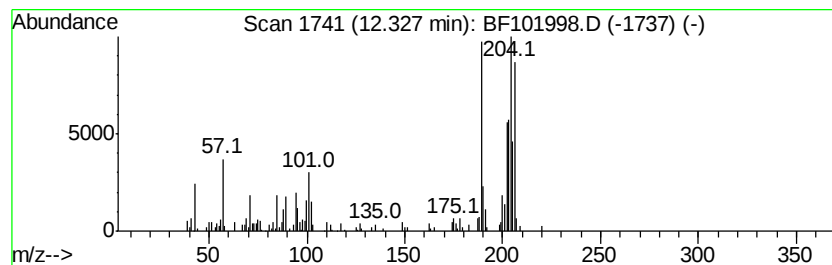
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 unknown12.33 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	3.00 ng	237304	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane	184	C13H28	000629-50-5	35
2		Succinic acid, hexadecyl tetrahy...	426	C25H46O5	1000329-87-2	22
3		Heneicosane	296	C21H44	000629-94-7	20
4		Heptacosane	380	C27H56	000593-49-7	20
5		Eicosane	282	C20H42	000112-95-8	18



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

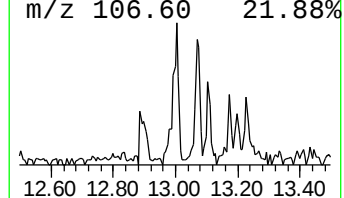
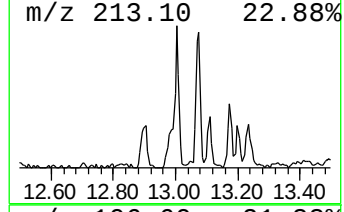
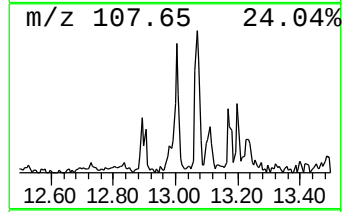
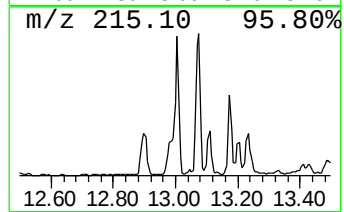
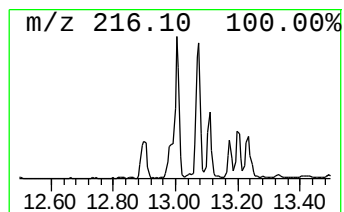
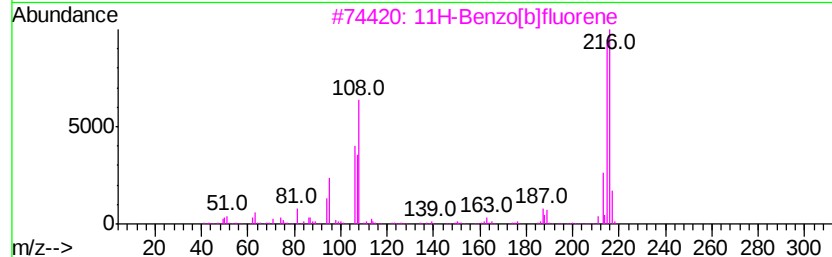
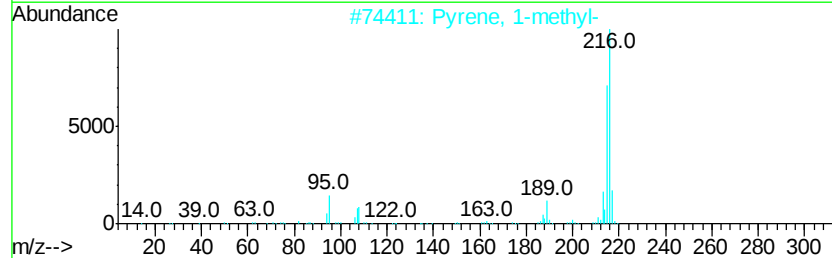
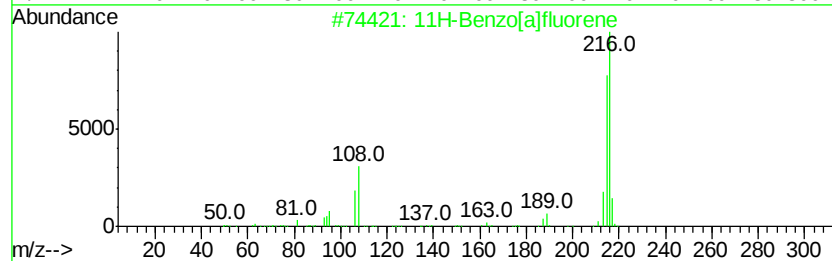
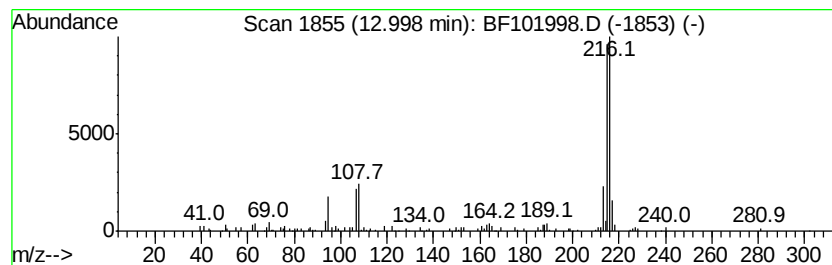
Instrument :
BNA_F
ClientSampleId :
WC-11R-01

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 13 11H-Benzo[a]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.00	3.50 ng	289732	Chrysene-d12	13.87	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

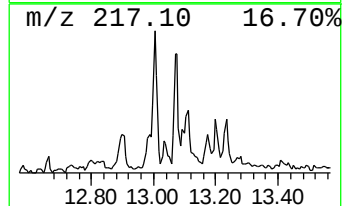
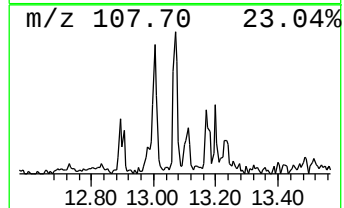
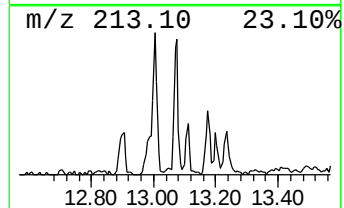
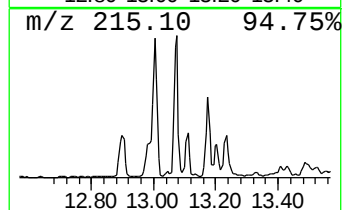
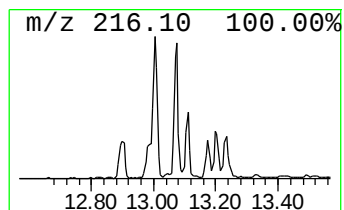
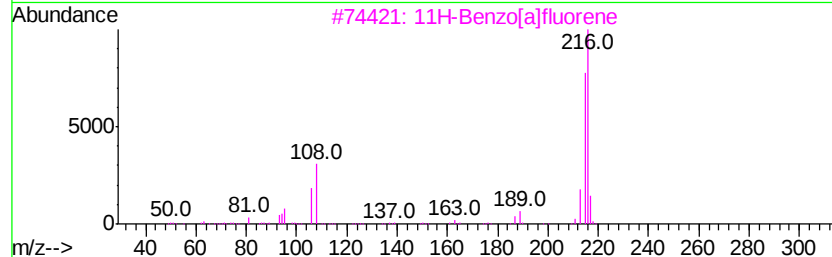
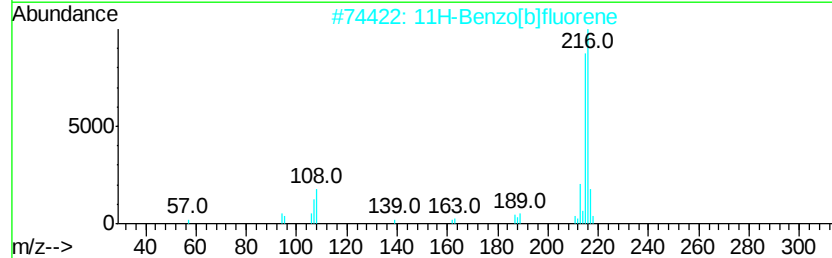
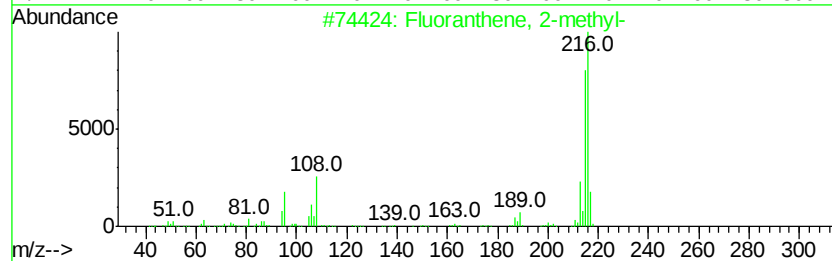
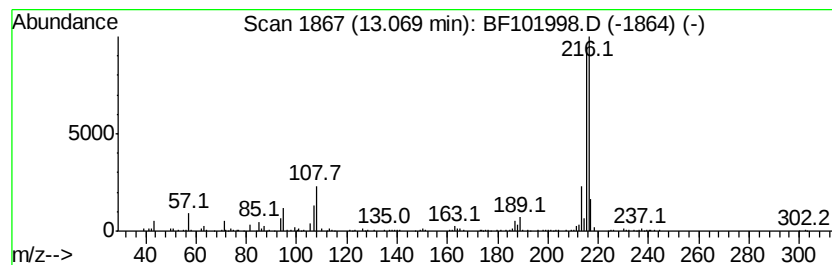
Instrument :
BNA_F
ClientSampleId :
WC-11R-01

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 14 Fluoranthene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.07	3.40 ng	281670	Chrysene-d12	13.87		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4		Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

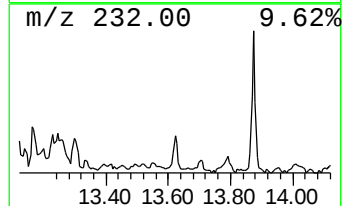
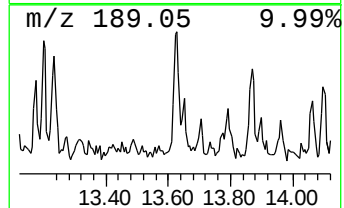
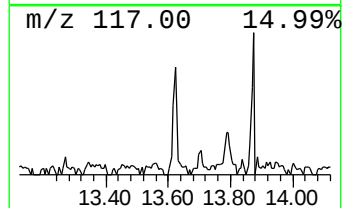
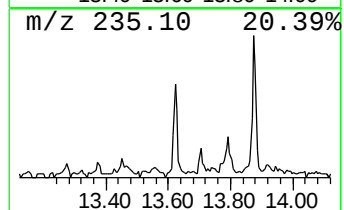
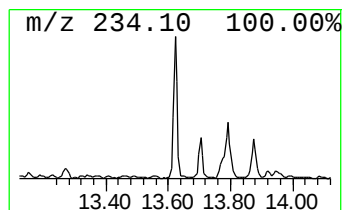
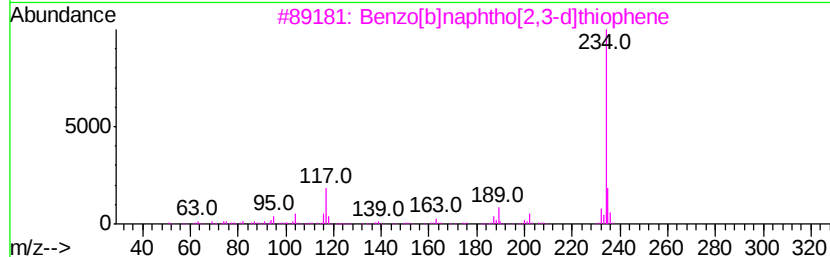
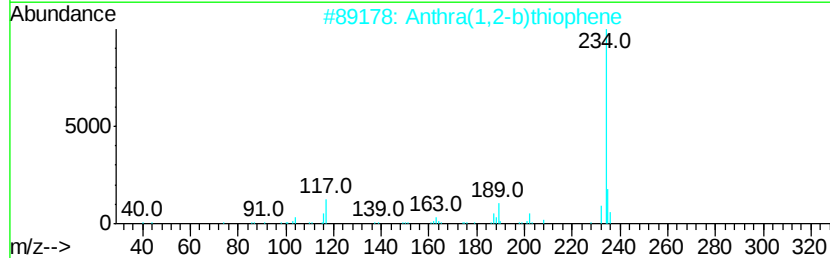
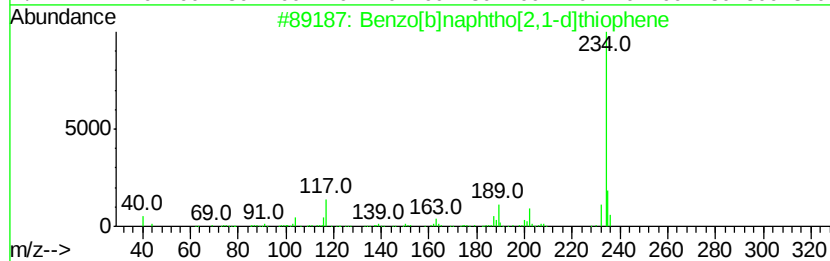
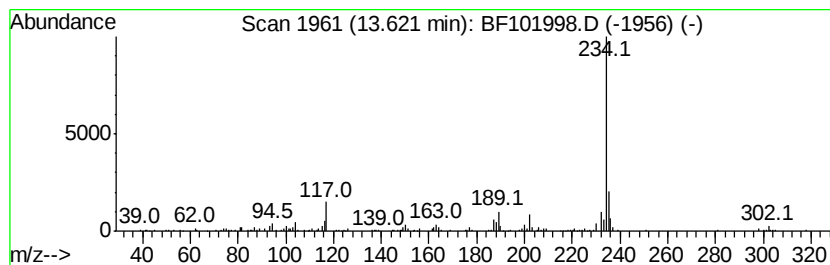
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	2.16 ng	178625	Chrysene-d12	13.87

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	98
2			Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	98
3			Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	96
4			Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	95
5			Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	94



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

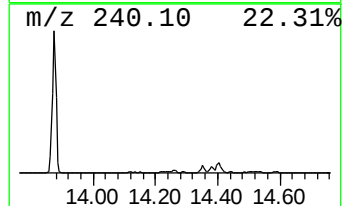
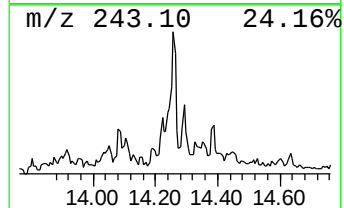
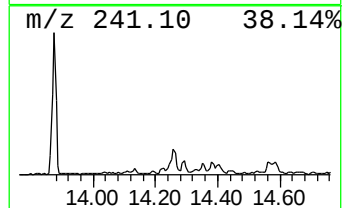
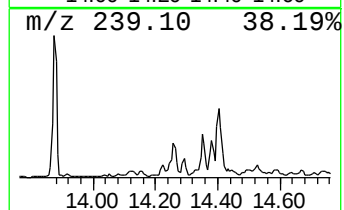
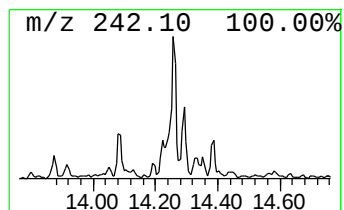
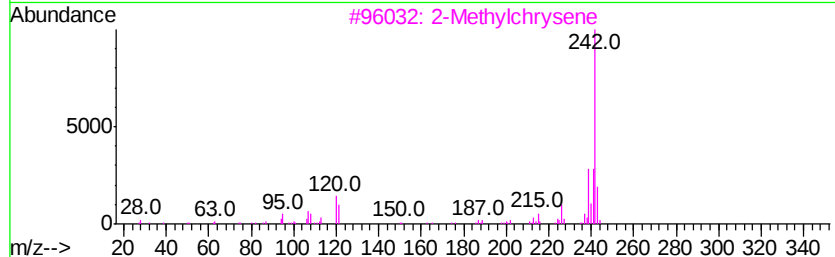
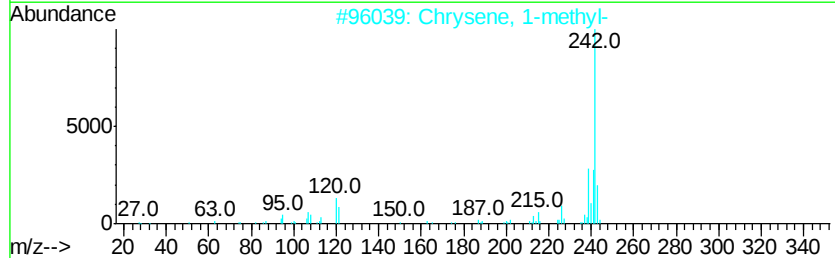
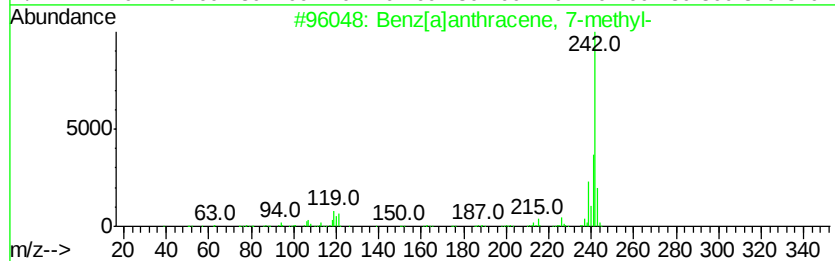
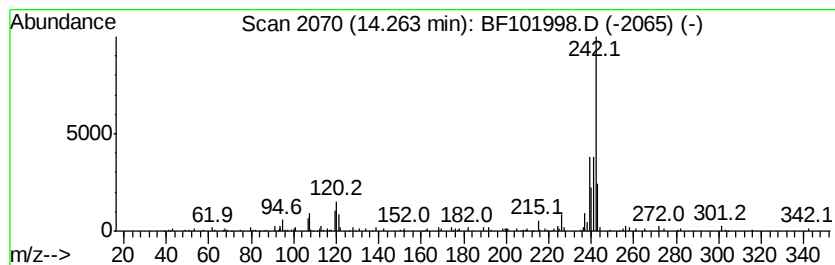
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benz[a]anthracene, 7-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	2.36 ng	195316	Chrysene-d12	13.87

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2			Chrysene, 1-methyl-	242	C19H14	003351-28-8	90
3			2-Methylchrysene	242	C19H14	003351-32-4	89
4			Triphenylene, 2-methyl-	242	C19H14	001705-84-6	81
5			Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	81



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
WC-11R-01

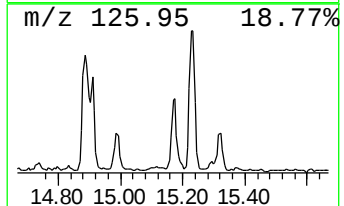
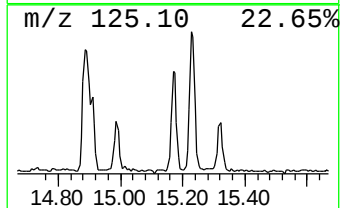
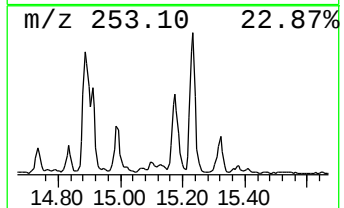
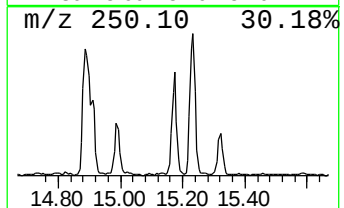
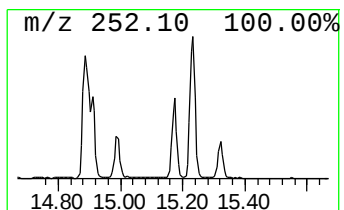
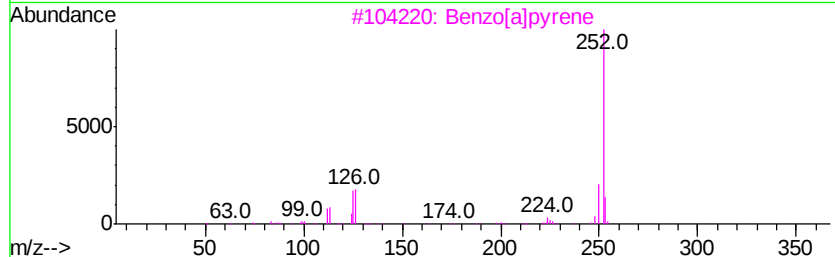
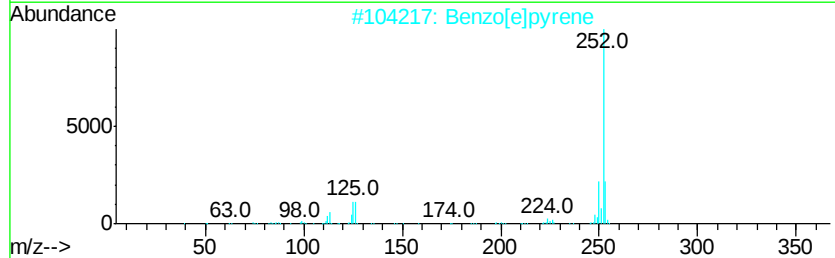
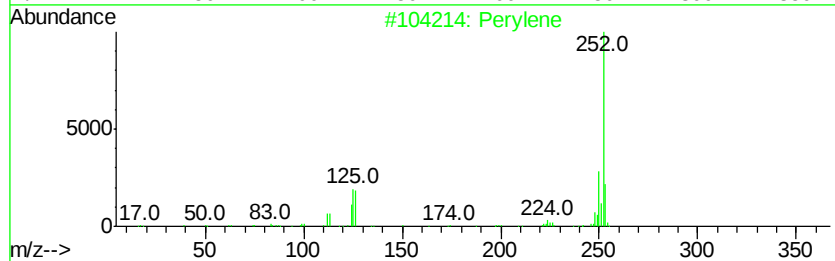
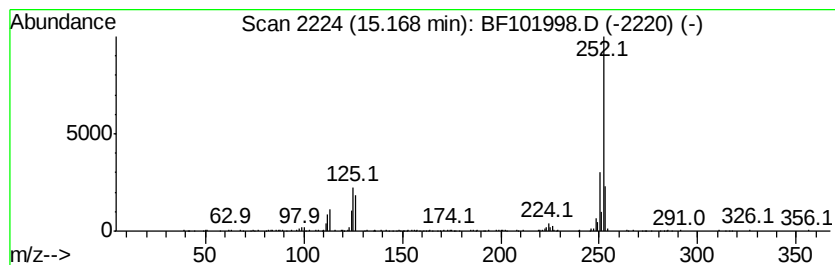
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	6.27 ng	346894	Perylene-d12	15.29

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Perylene	252	C20H12	000198-55-0	98
2			Benzo[e]pyrene	252	C20H12	000192-97-2	96
3			Benzo[a]pyrene	252	C20H12	000050-32-8	94
4			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
5			Benzo[k]fluoranthene	252	C20H12	000207-08-9	91



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101998.D
Acq On : 10 Jan 2018 23:56
Operator : SJ/JU
Sample : J1076-15 50X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11R-01

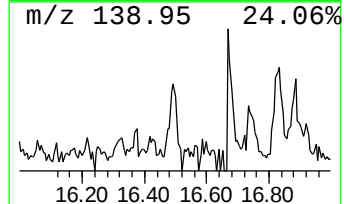
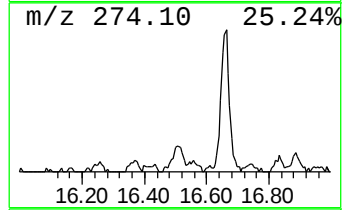
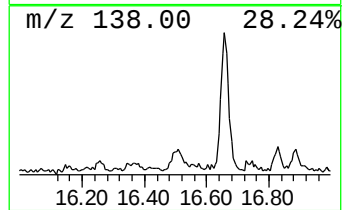
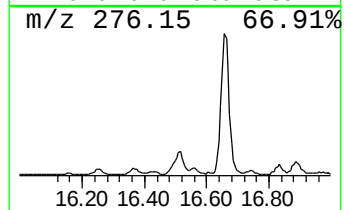
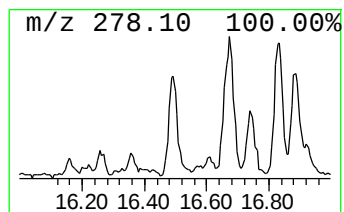
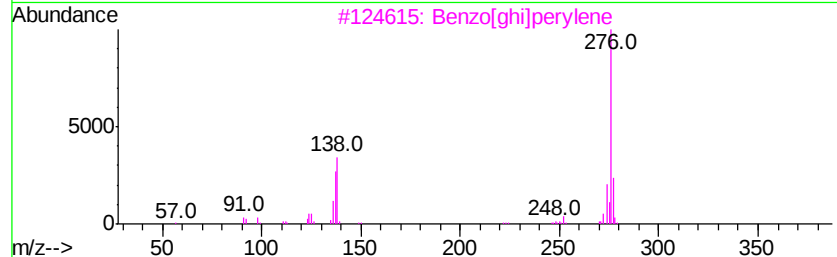
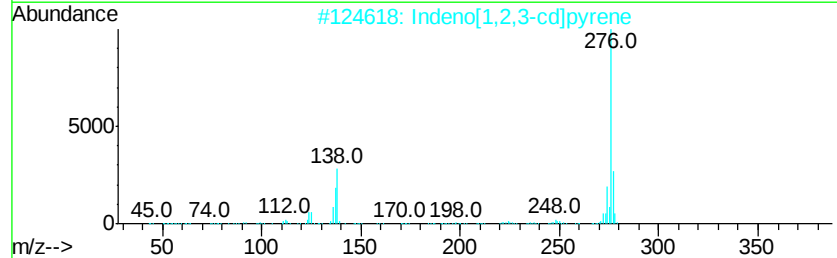
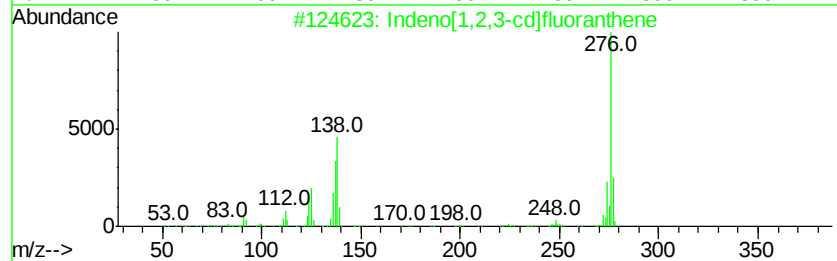
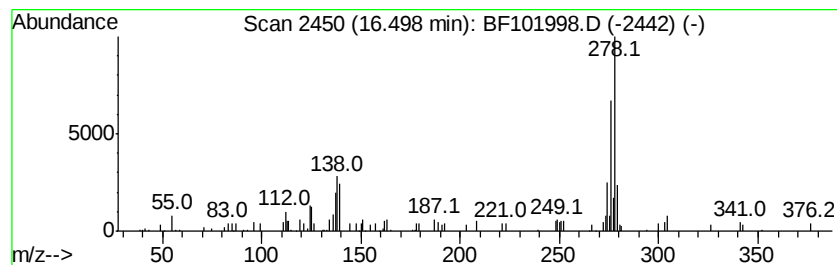
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Indeno[1,2,3-cd]fluoranthene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.50	2.20 ng	121651	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	91
2		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
3		Benzo[ghi]perylene	276	C22H12	000191-24-2	55
4		Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	50
5		1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	35



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
 Data File : BF101998.D
 Acq On : 10 Jan 2018 23:56
 Operator : SJ/JU
 Sample : J1076-15 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-11R-01

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
Benzene, 1-propynyl-	6.99	5.2 ng		336502	1	6.73	1284300	20.0
Naphthalene, 1-me...	8.82	5.2 ng		461479	2	8.01	1789600	20.0
Naphthalene, 2,6-...	9.35	2.4 ng		207489	3	9.76	1735520	20.0
Naphthalene, 2,3-...	9.42	2.5 ng		220823	3	9.76	1735520	20.0
9H-Fluorene, 2-me...	10.85	2.1 ng		167171	4	11.25	1581380	20.0
Naphtho[2,1-b]thi...	11.14	4.0 ng		317321	4	11.25	1581380	20.0
Phenanthrene, 2-m...	11.74	3.6 ng		283642	4	11.25	1581380	20.0
4H-Cyclopenta[def...	11.85	7.0 ng		554871	4	11.25	1581380	20.0
9,10-Dimethylanthe...	12.29	2.3 ng		182428	4	11.25	1581380	20.0
unknown12.33	12.33	3.0 ng		237304	4	11.25	1581380	20.0
11H-Benzo[a]fluorene	13.00	3.5 ng		289732	5	13.87	1655090	20.0
Fluoranthene, 2-m...	13.07	3.4 ng		281670	5	13.87	1655090	20.0
Benzo[b]naphtho[2...	13.62	2.2 ng		178625	5	13.87	1655090	20.0
Benz[a]anthracene...	14.26	2.4 ng		195316	5	13.87	1655090	20.0
Perylene	15.17	6.3 ng		346894	6	15.29	1106310	20.0
Indeno[1,2,3-cd]f...	16.50	2.2 ng		121651	6	15.29	1106310	20.0