

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102022.D
 Acq On : 11 Jan 2018 16:59
 Operator : SJ/JU
 Sample : J1081-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EPE-106-1(0-5)

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-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	4.922	477	482	489	rBV	381465	529316	12.75%	0.649%
2	5.334	547	552	555	rBV	3740530	3755539	90.47%	4.603%
3	6.357	721	726	730	rBV	3610204	4151196	100.00%	5.088%
4	6.492	744	749	752	rBV	4171920	3984336	95.98%	4.883%
5	6.728	785	789	792	rBV	1303334	1162746	28.01%	1.425%
6	6.881	811	815	818	rBV	3673648	3134988	75.52%	3.842%
7	6.987	829	833	839	rVB4	41548	64778	1.56%	0.079%
8	7.128	851	857	863	rBV2	61925	78040	1.88%	0.096%
9	7.292	875	885	888	rBV	2715576	2677878	64.51%	3.282%
10	8.004	1001	1006	1009	rBV	1666828	1543796	37.19%	1.892%
11	8.028	1009	1010	1012	rVB	182012	89511	2.16%	0.110%
12	8.716	1125	1127	1131	rVB	121742	95915	2.31%	0.118%
13	8.816	1140	1144	1148	rVB	148558	124186	2.99%	0.152%
14	9.086	1185	1190	1193	rBV	4202016	3731421	89.89%	4.573%
15	9.169	1200	1204	1205	rBV	65911	67882	1.64%	0.083%
16	9.339	1228	1233	1237	rBV	86761	122277	2.95%	0.150%
17	9.416	1242	1246	1249	rVV	173127	176960	4.26%	0.217%
18	9.445	1249	1251	1253	rVV	113146	88184	2.12%	0.108%
19	9.480	1253	1257	1260	rVV	686153	592823	14.28%	0.727%
20	9.533	1264	1266	1271	rVB2	64200	74683	1.80%	0.092%
21	9.622	1277	1281	1284	rBV	966679	836002	20.14%	1.025%
22	9.692	1291	1293	1296	rVB	112386	87130	2.10%	0.107%
23	9.757	1298	1304	1308	rBV2	1504365	1395033	33.61%	1.710%
24	9.792	1308	1310	1313	rVB2	81650	71941	1.73%	0.088%
25	9.963	1335	1339	1343	rBV	373737	325438	7.84%	0.399%
26	10.192	1375	1378	1384	rVB3	131090	156349	3.77%	0.192%
27	10.304	1394	1397	1403	rVB	344634	326558	7.87%	0.400%
28	10.410	1413	1415	1421	rVB2	103555	113233	2.73%	0.139%
29	10.463	1421	1424	1427	rBV2	154648	160997	3.88%	0.197%
30	10.545	1433	1438	1442	rBV	1755297	1667709	40.17%	2.044%
31	10.669	1456	1459	1466	rVB3	208784	267858	6.45%	0.328%
32	10.851	1484	1490	1493	rBV4	78594	118867	2.86%	0.146%
33	11.004	1513	1516	1518	rVV2	87834	85617	2.06%	0.105%
34	11.045	1520	1523	1527	rVB	571834	456326	10.99%	0.559%

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35	11.086	1527	1530	1533	rBV	78176	85808	2.07%	0.105%
36	11.133	1536	1538	1545	rVB	259107	271710	6.55%	0.333%
37	11.239	1552	1556	1558	rBV	1080038	1088479	26.22%	1.334%
38	11.269	1558	1561	1564	rVV	4030370	3502130	84.36%	4.292%
39	11.316	1564	1569	1572	rVV	891673	785084	18.91%	0.962%
40	11.345	1572	1574	1578	rVB	155069	137750	3.32%	0.169%
41	11.469	1589	1595	1598	rBV2	570796	606970	14.62%	0.744%
42	11.539	1602	1607	1609	rVV3	127465	123103	2.97%	0.151%
43	11.569	1609	1612	1617	rVB4	152148	149451	3.60%	0.183%
44	11.739	1636	1641	1643	rVV	544413	469620	11.31%	0.576%
45	11.769	1643	1646	1651	rVV	848049	806588	19.43%	0.989%
46	11.816	1651	1654	1656	rVV	189223	166441	4.01%	0.204%
47	11.851	1656	1660	1662	rVV	622038	629804	15.17%	0.772%
48	11.874	1662	1664	1668	rVB	337737	275311	6.63%	0.337%
49	11.922	1668	1672	1674	rBV4	84872	113805	2.74%	0.139%
50	11.945	1674	1676	1678	rVV	121261	107027	2.58%	0.131%
51	12.004	1683	1686	1689	rBV4	42810	66339	1.60%	0.081%
52	12.039	1689	1692	1693	rVV	393084	325819	7.85%	0.399%
53	12.057	1693	1695	1699	rVB	687652	572353	13.79%	0.701%
54	12.216	1719	1722	1724	rBV	103830	74959	1.81%	0.092%
55	12.239	1724	1726	1729	rVB	103851	77549	1.87%	0.095%
56	12.292	1731	1735	1738	rBV	296461	317203	7.64%	0.389%
57	12.321	1738	1740	1742	rVV	111731	125048	3.01%	0.153%
58	12.345	1742	1744	1746	rVV2	104665	90541	2.18%	0.111%
59	12.374	1746	1749	1753	rVB	506951	466344	11.23%	0.572%
60	12.457	1758	1763	1766	rBV	4099865	4081370	98.32%	5.002%
61	12.510	1766	1772	1775	rBV3	105378	169116	4.07%	0.207%
62	12.545	1775	1778	1781	rBV	489985	412238	9.93%	0.505%
63	12.580	1781	1784	1786	rBV	122448	125785	3.03%	0.154%
64	12.686	1795	1802	1805	rBV2	3358839	3902293	94.00%	4.783%
65	12.727	1806	1809	1814	rVB2	231639	269834	6.50%	0.331%
66	12.798	1817	1821	1823	rBV	318467	307283	7.40%	0.377%
67	12.827	1823	1826	1833	rVB	2758313	2531876	60.99%	3.103%
68	12.898	1833	1838	1841	rBV3	316645	491430	11.84%	0.602%
69	12.927	1841	1843	1846	rBV	104090	83398	2.01%	0.102%
70	12.980	1849	1852	1854	rVV3	269697	324149	7.81%	0.397%
71	13.004	1854	1856	1859	rVB	318541	291064	7.01%	0.357%

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72	13.033	1859	1861	1864	rBV	103426	115973	2.79%	0.142%
73	13.068	1865	1867	1870	rVB2	126730	97944	2.36%	0.120%
74	13.110	1870	1874	1877	rBV	455857	476925	11.49%	0.585%
75	13.168	1881	1884	1886	rBV2	94775	108282	2.61%	0.133%
76	13.198	1887	1889	1892	rVB	225584	191633	4.62%	0.235%
77	13.233	1892	1895	1898	rBV2	198422	234683	5.65%	0.288%
78	13.386	1917	1921	1923	rBV4	116639	194668	4.69%	0.239%
79	13.510	1939	1942	1946	rBV	811970	733540	17.67%	0.899%
80	13.621	1957	1961	1964	rBV2	517284	667557	16.08%	0.818%
81	13.651	1964	1966	1968	rVV	431094	378631	9.12%	0.464%
82	13.674	1968	1970	1974	rVV2	358941	483536	11.65%	0.593%
83	13.721	1974	1978	1984	rVB	998384	1005980	24.23%	1.233%
84	13.868	1997	2003	2007	rBV2	2202725	3672558	88.47%	4.501%
85	13.904	2007	2009	2015	rVB	2068115	2053519	49.47%	2.517%
86	14.015	2025	2028	2031	rBV	426438	386102	9.30%	0.473%
87	14.104	2038	2043	2045	rVV2	207432	252300	6.08%	0.309%
88	14.133	2045	2048	2050	rVB2	126168	104308	2.51%	0.128%
89	14.263	2067	2070	2073	rVB	443357	392565	9.46%	0.481%
90	14.298	2073	2076	2079	rVB2	340926	325039	7.83%	0.398%
91	14.727	2146	2149	2154	rVB2	177185	276061	6.65%	0.338%
92	14.810	2160	2163	2165	rBV2	166519	176455	4.25%	0.216%
93	14.898	2173	2178	2181	rBV	1928221	3259393	78.52%	3.995%
94	14.998	2192	2195	2199	rVB	568556	583700	14.06%	0.715%
95	15.186	2222	2227	2232	rVB	1205876	1740713	41.93%	2.133%
96	15.245	2232	2237	2242	rBV	1594627	2088883	50.32%	2.560%
97	15.304	2243	2247	2249	rVV	762357	948499	22.85%	1.163%
98	15.333	2249	2252	2258	rVB2	618119	828784	19.96%	1.016%
99	16.692	2476	2483	2489	rVB2	824593	1706531	41.11%	2.092%
100	17.109	2547	2554	2562	rVB	656407	1365640	32.90%	1.674%

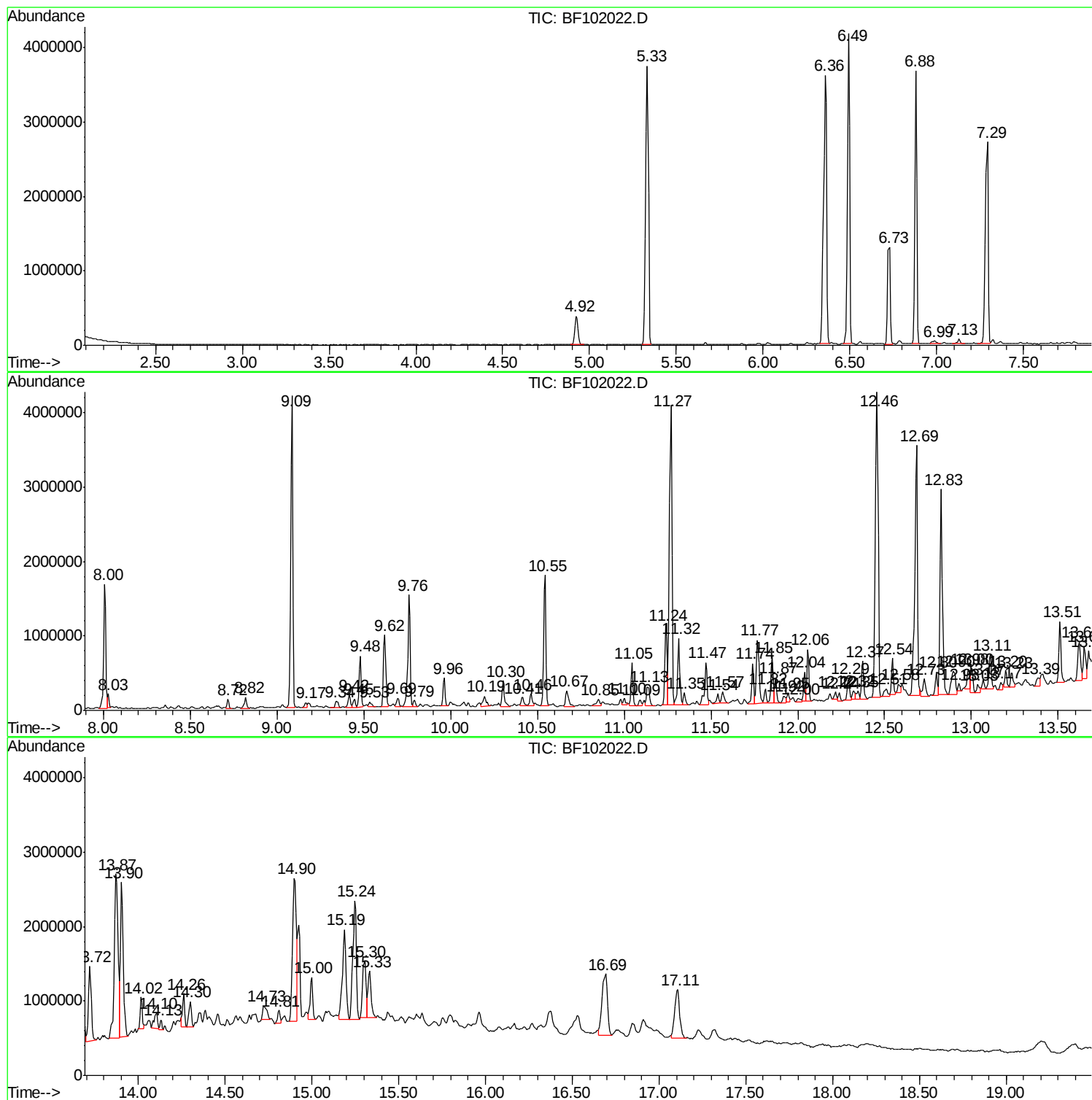
Sum of corrected areas: 81590987

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ALS Vial : 6 Sample Multiplier: 1

Instrument :
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EPE-106-1(0-5)

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



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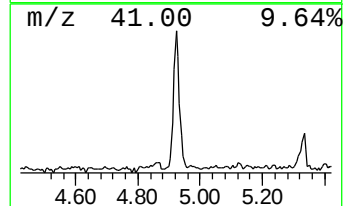
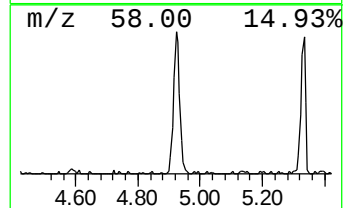
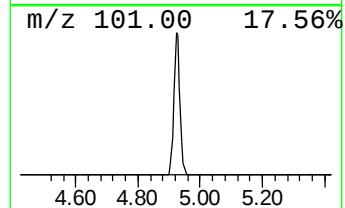
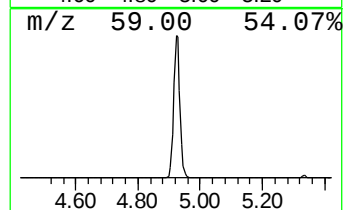
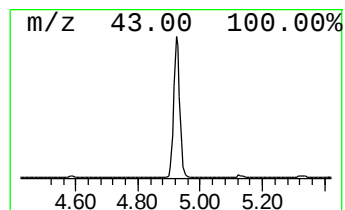
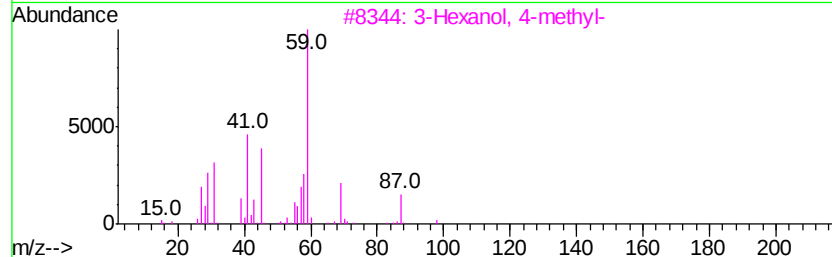
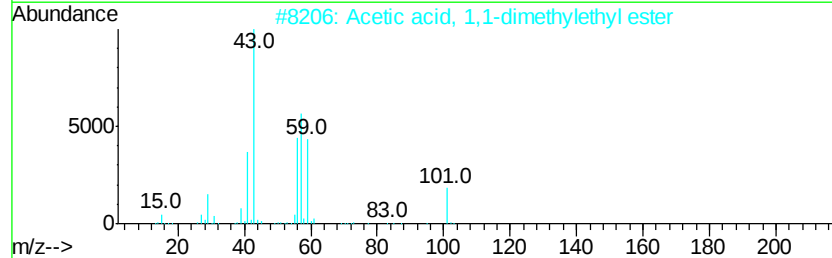
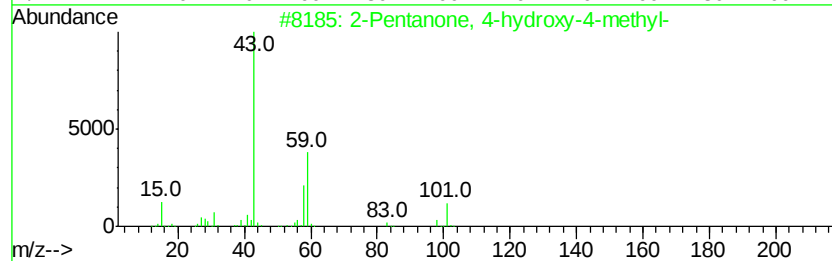
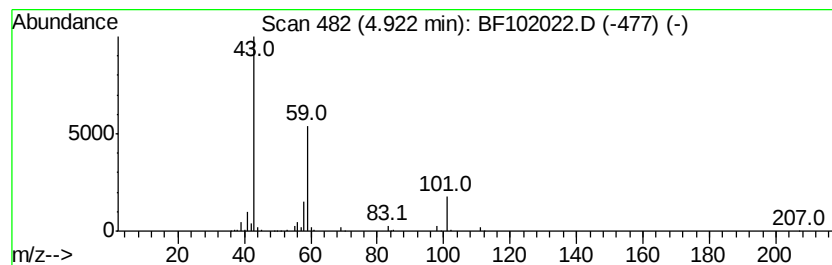
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.92	9.10 ng	529316	1,4-Dichlorobenzene-d4	6.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2		Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3		3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4		Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
5		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32



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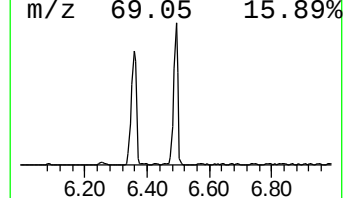
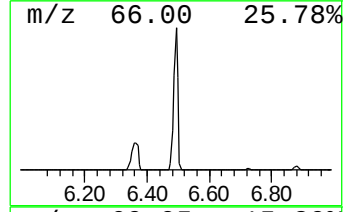
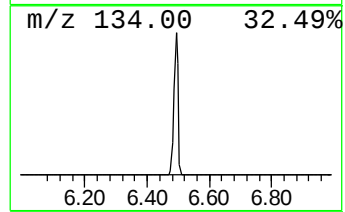
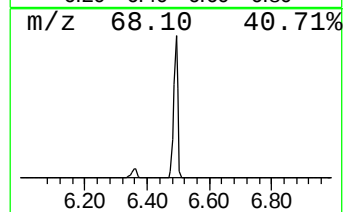
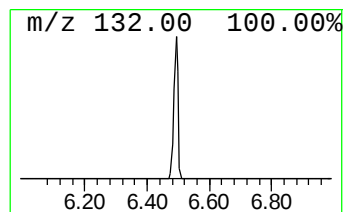
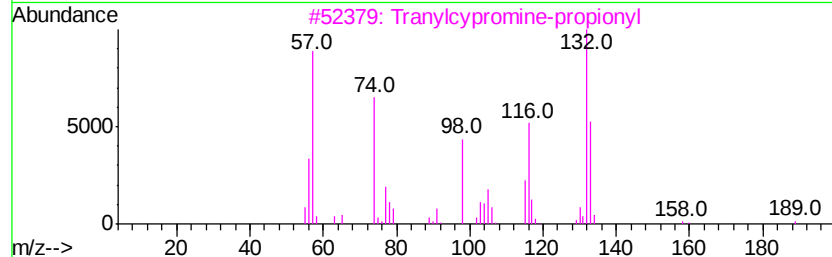
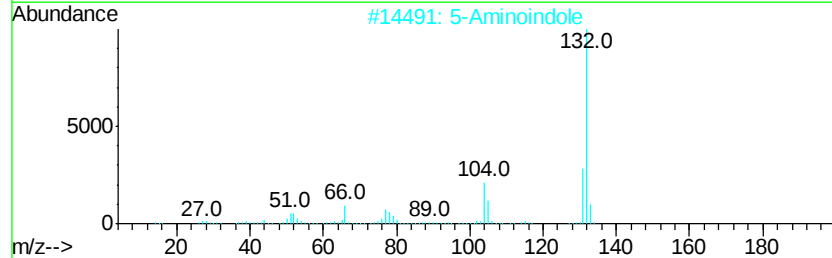
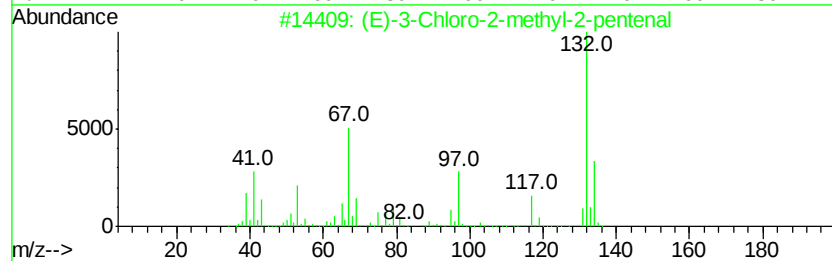
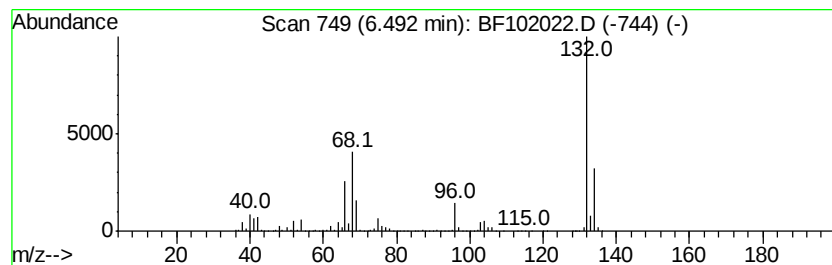
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.49 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.49	68.53 ng	3984340	1,4-Dichlorobenzene-d4	6.73

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2			5-Aminoindole	132	C8H8N2	005192-03-0	12
3			Tranvlcvpromine-propionyl	189	C12H15NO	1000123-86-3	10
4			Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5			4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9



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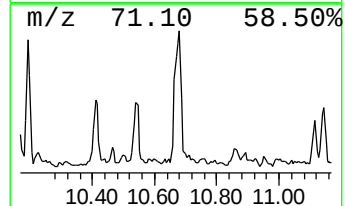
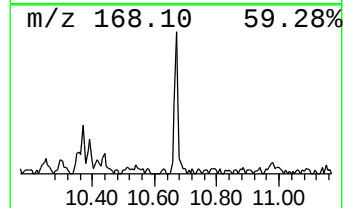
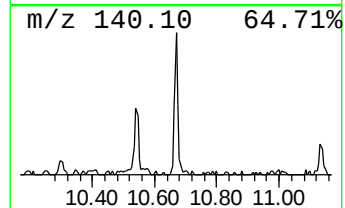
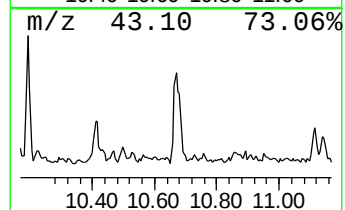
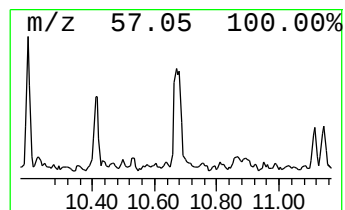
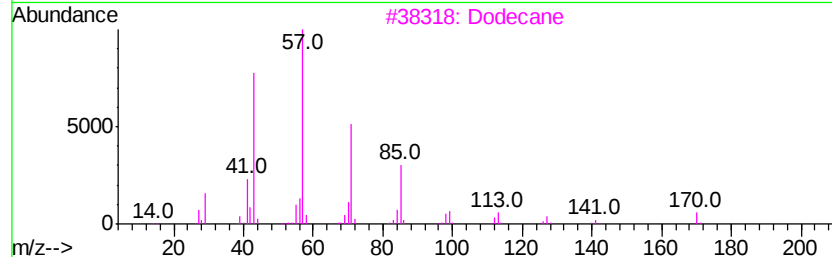
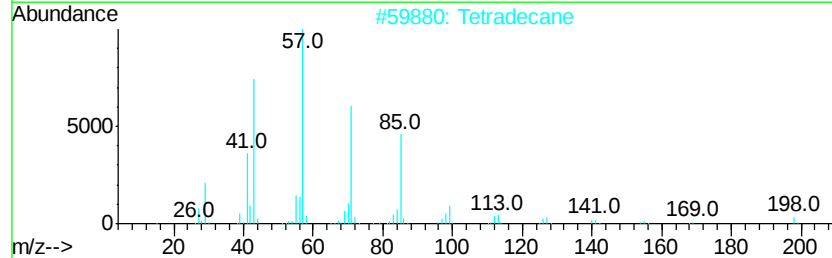
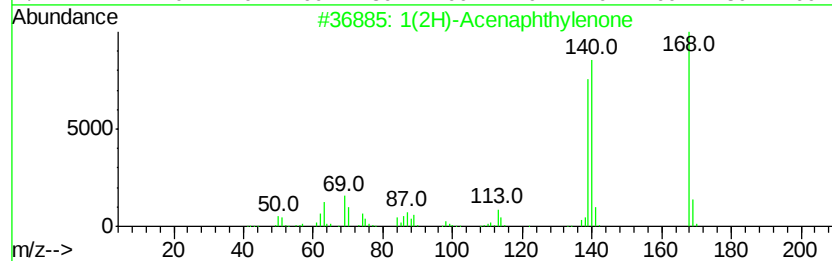
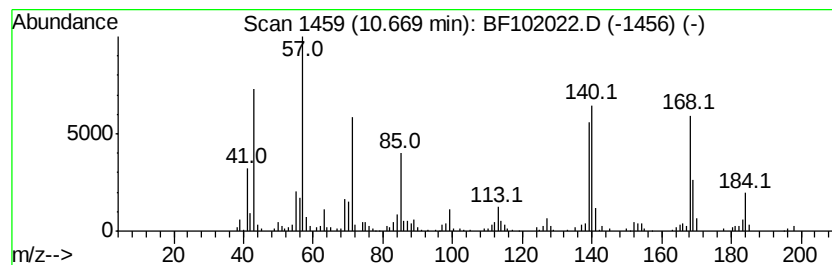
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 1(2H)-Acenaphthylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.67	4.92 ng	267858	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1(2H)-Acenaphthylene	168	C12H8O	002235-15-6	86
2		Tetradecane	198	C14H30	000629-59-4	60
3		Dodecane	170	C12H26	000112-40-3	47
4		Tridecane	184	C13H28	000629-50-5	42
5		Hentriacontane	437	C31H64	000630-04-6	25



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Data File : BF102022.D
Acq On : 11 Jan 2018 16:59
Operator : SJ/JU
Sample : J1081-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EPE-106-1(0-5)

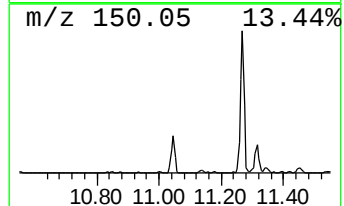
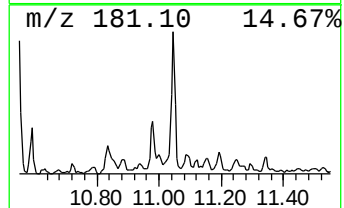
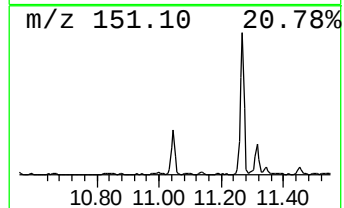
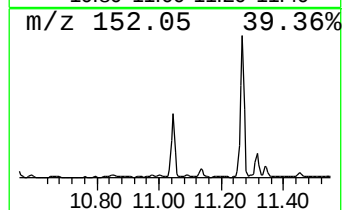
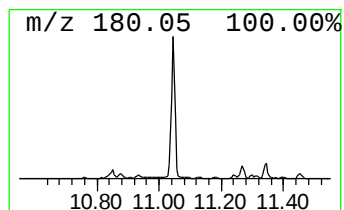
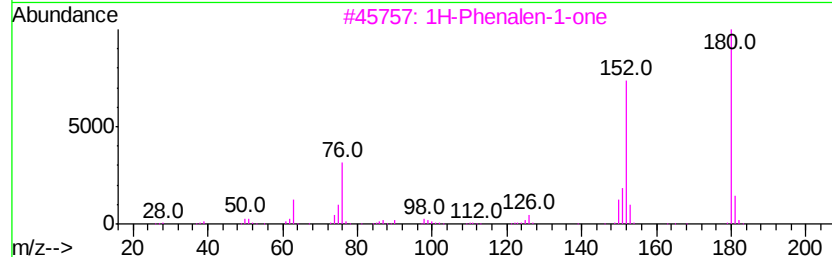
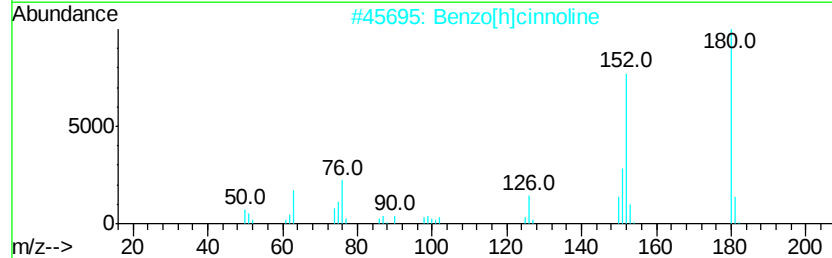
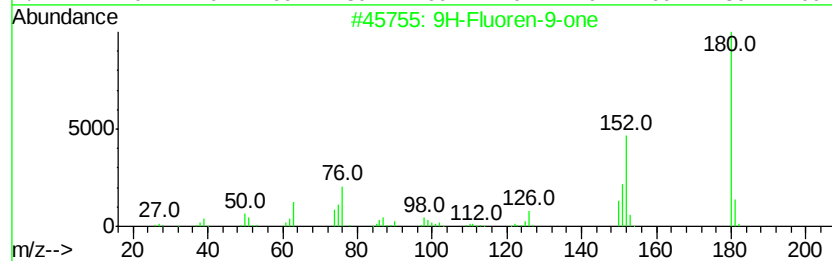
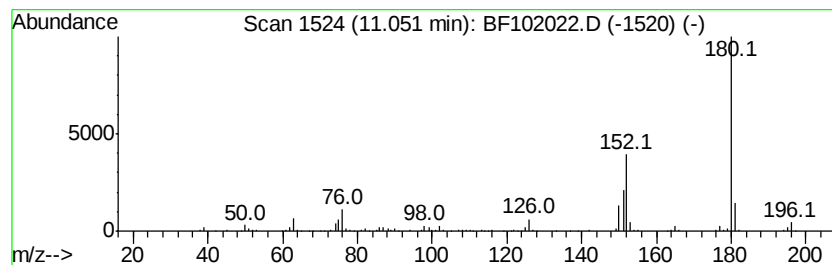
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluoren-9-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	8.38 ng	456326	Phenanthrene-d10	11.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	50
4		1,7-Phenanthroline	180	C12H8N2	000230-46-6	47
5		Phenazine	180	C12H8N2	000092-82-0	47



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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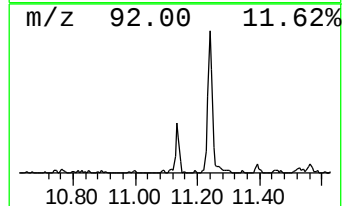
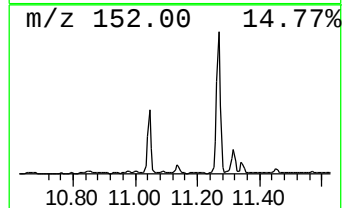
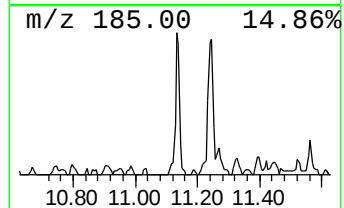
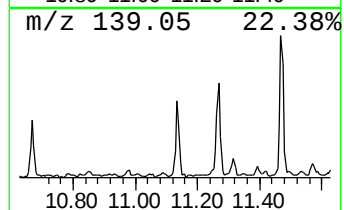
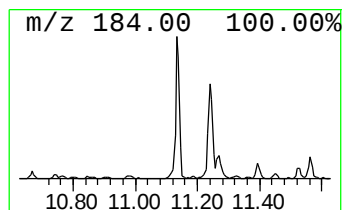
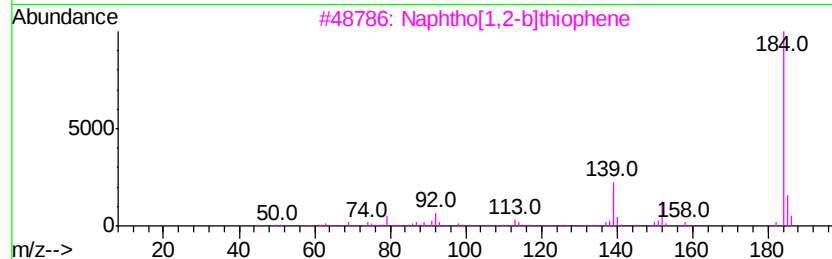
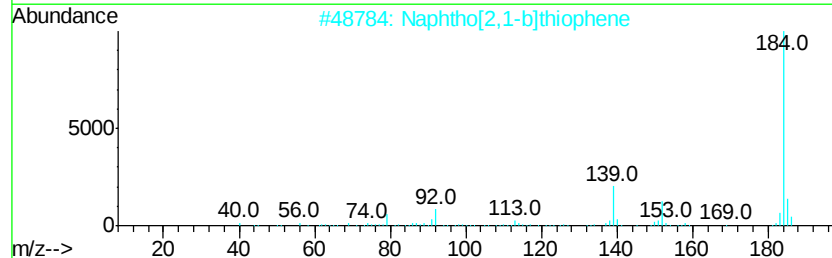
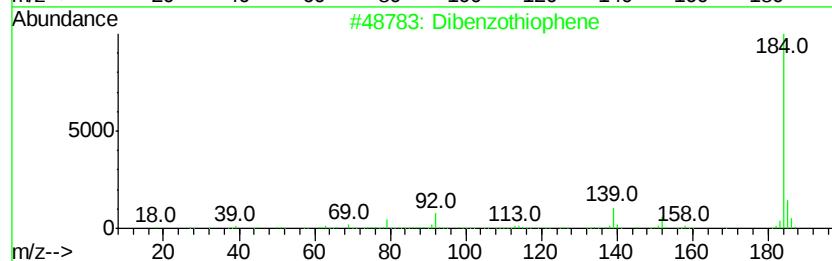
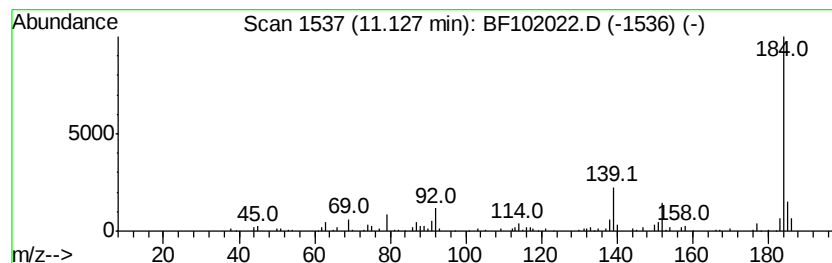
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Dibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	4.99 ng	271710	Phenanthrene-d10	11.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzothiophene	184	C12H8S	000132-65-0	97
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	93
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011118\
Data File : BF102022.D
Acq On : 11 Jan 2018 16:59
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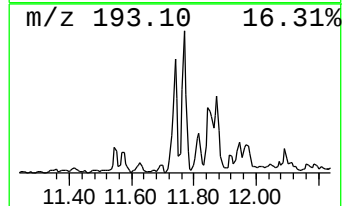
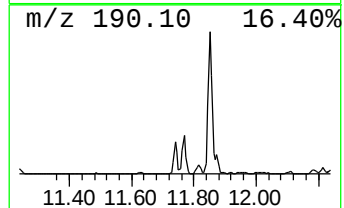
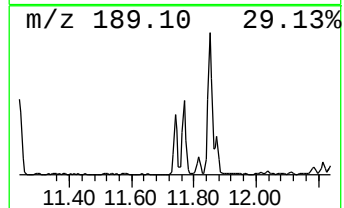
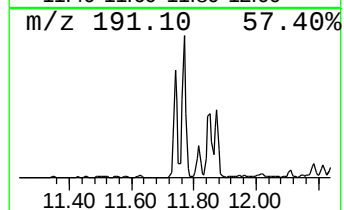
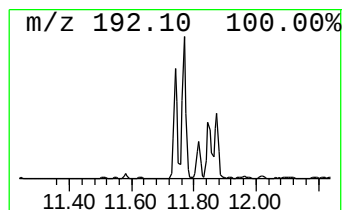
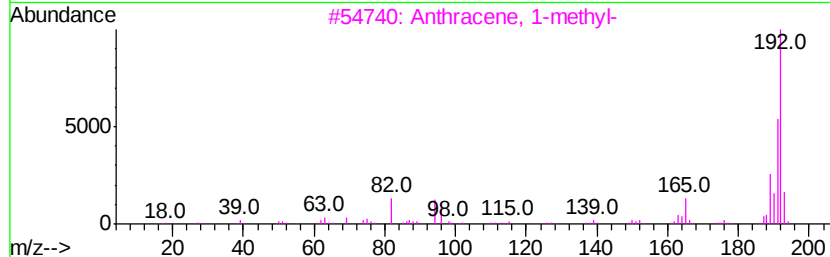
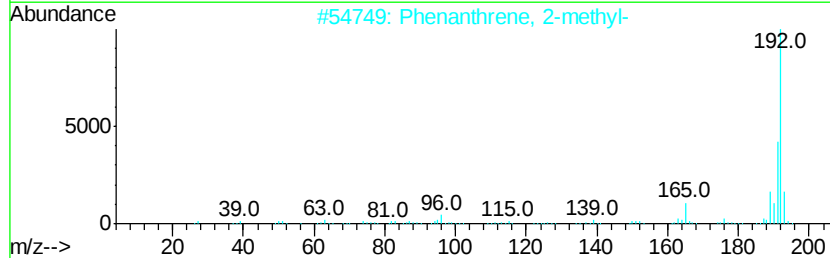
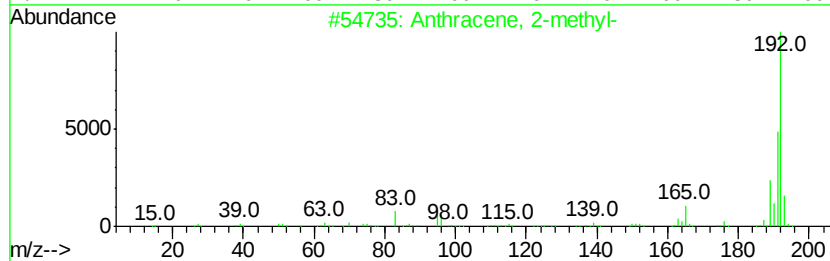
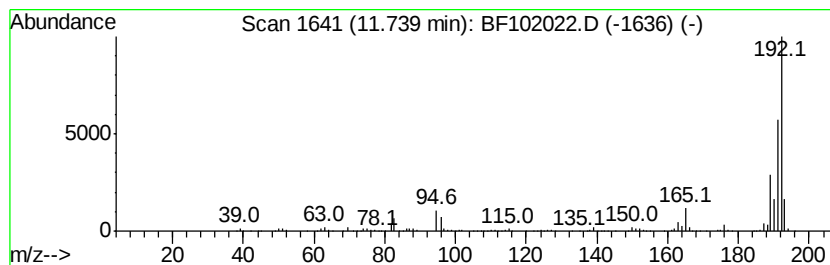
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	8.63 ng	469620	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	92



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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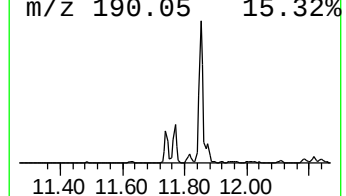
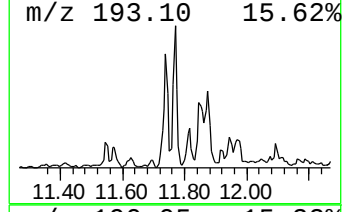
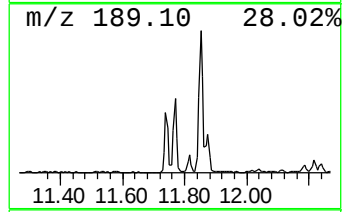
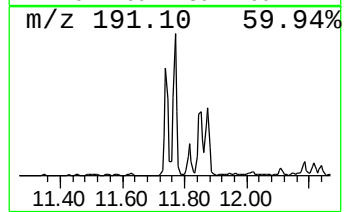
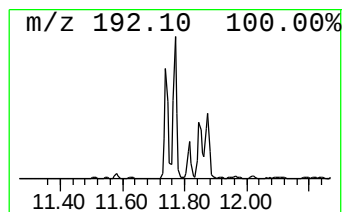
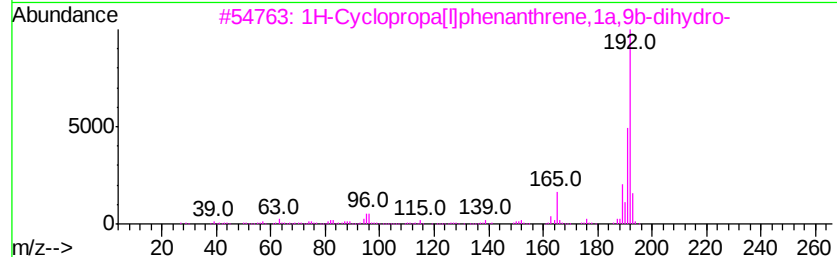
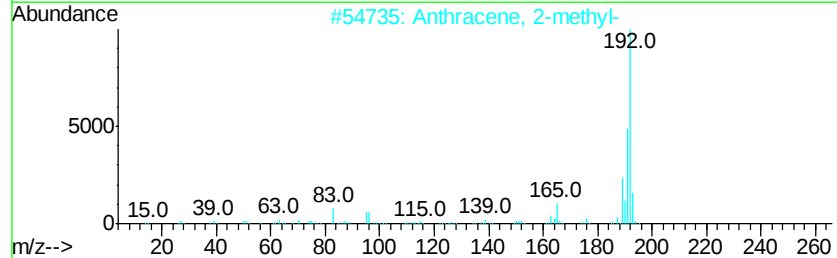
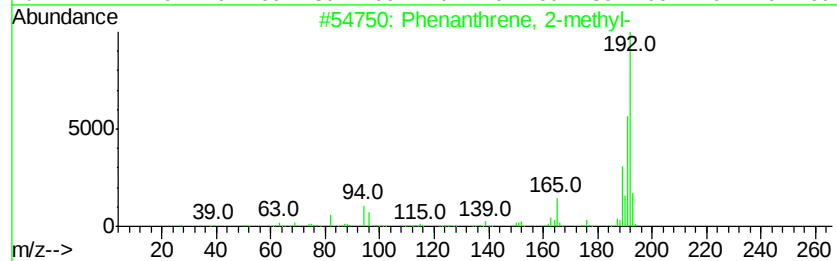
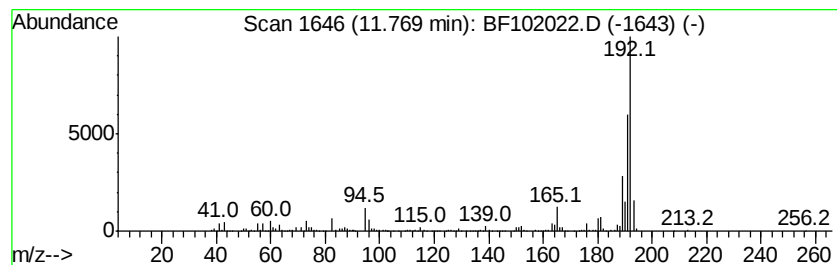
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.77	14.82 ng	806588	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011118\
Data File : BF102022.D
Acq On : 11 Jan 2018 16:59
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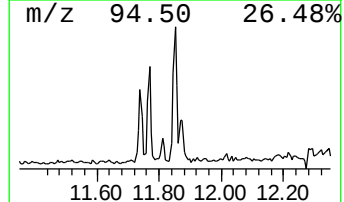
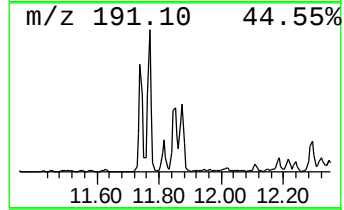
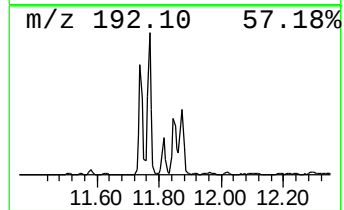
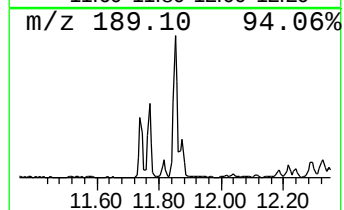
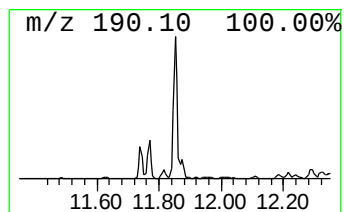
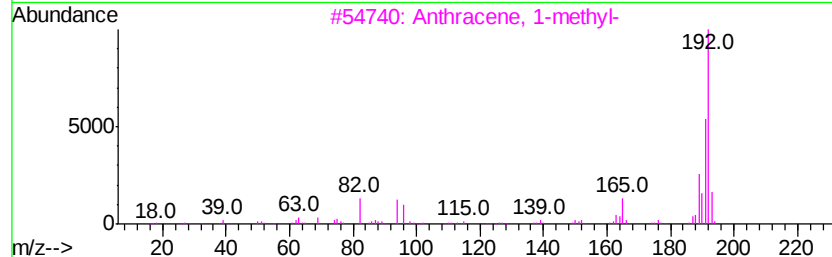
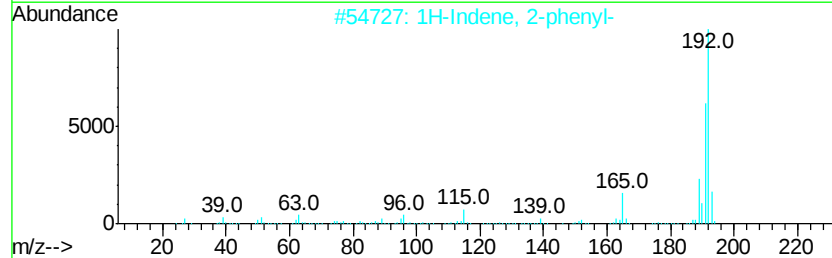
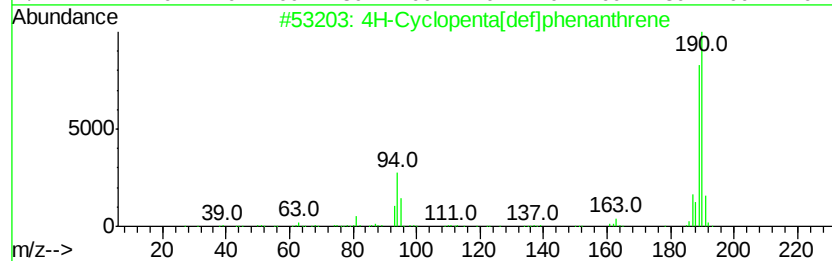
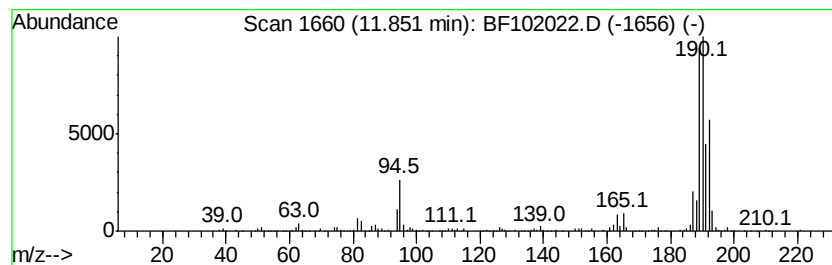
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	11.57 ng	629804	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	30
4	1H-Cyclopropa[all]phenanthrene, 1a,...	192	C15H12	000949-41-7	25
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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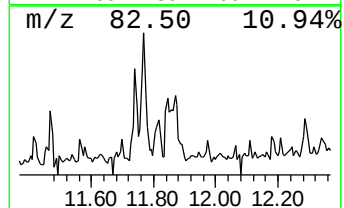
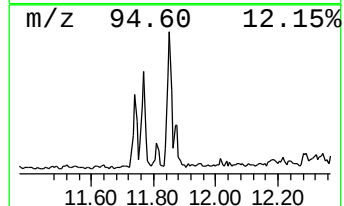
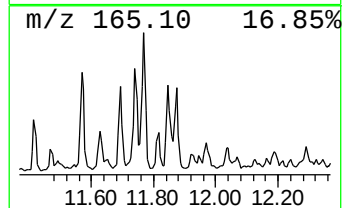
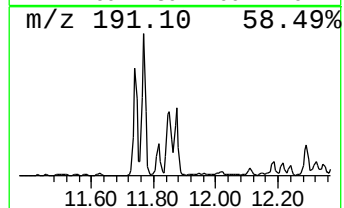
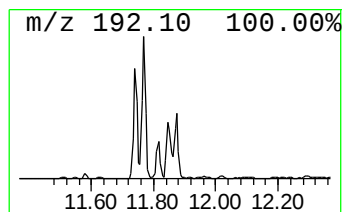
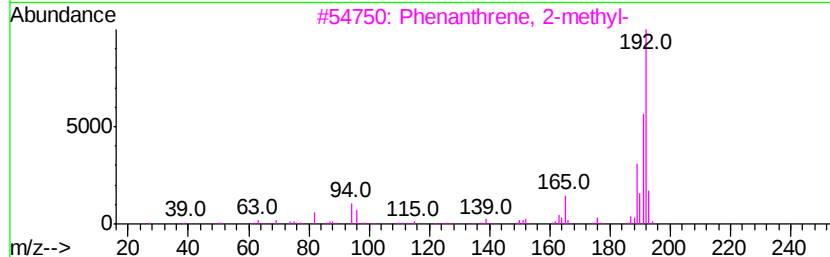
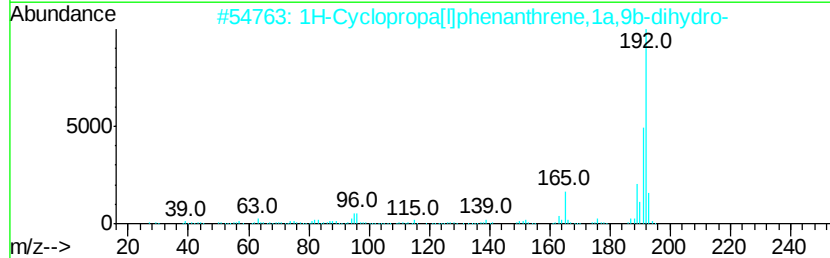
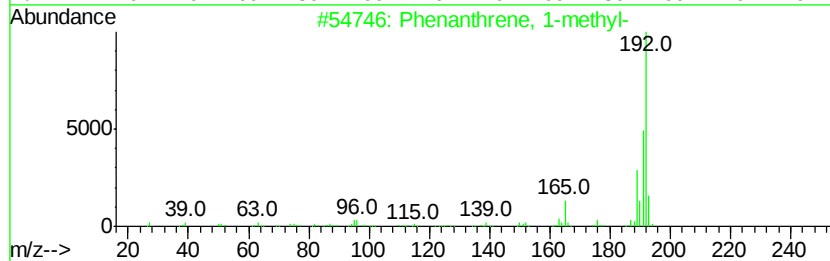
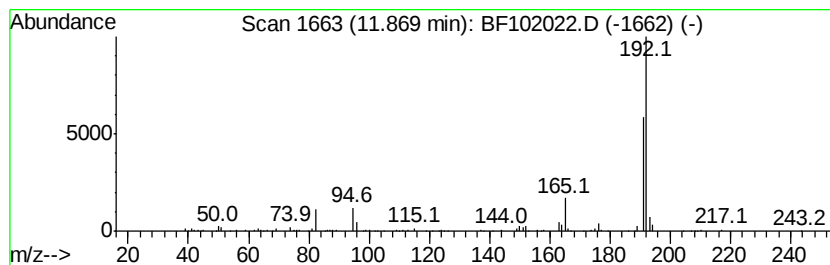
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.87	5.06 ng	275311	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	87
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83



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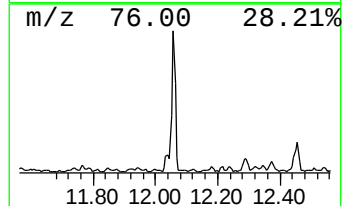
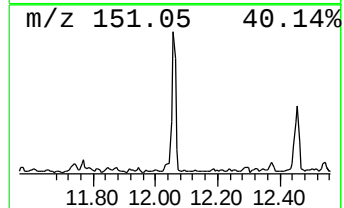
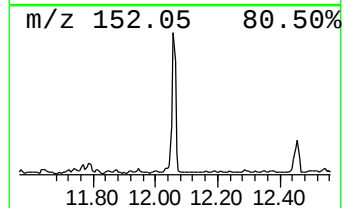
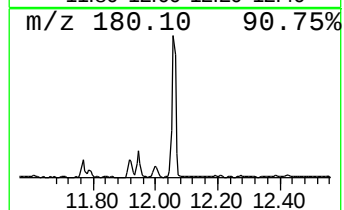
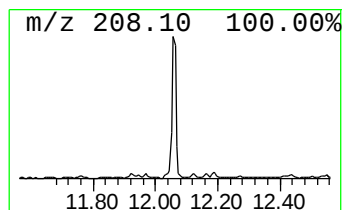
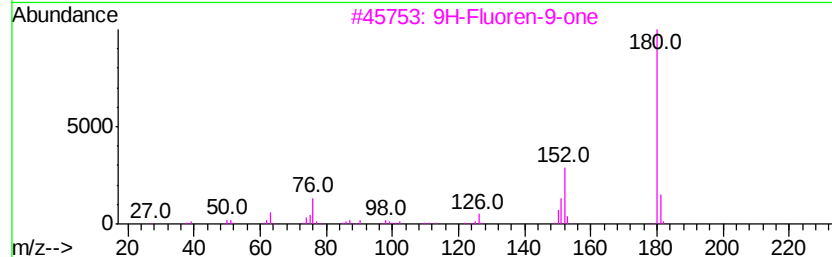
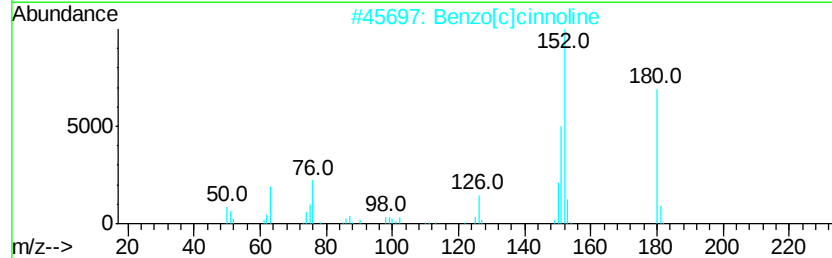
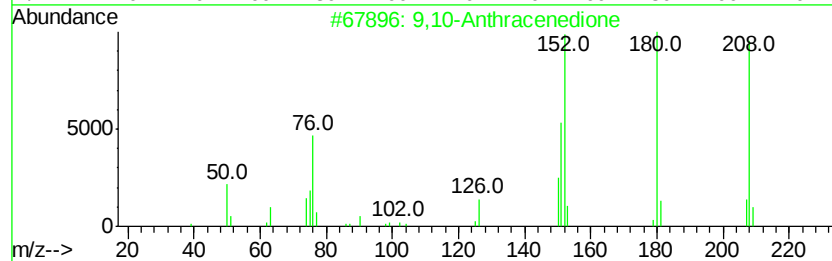
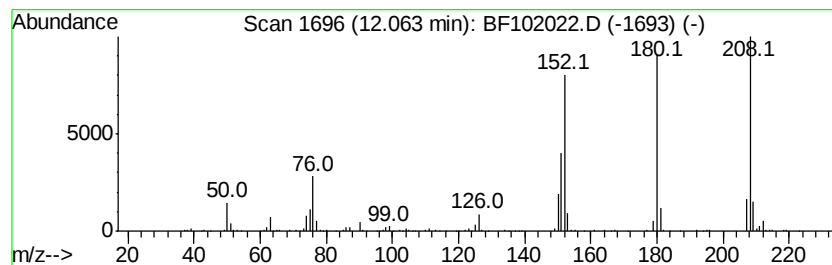
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	10.52 ng	572353	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
5		1,4-Anthracenedione	208	C14H8O2	000635-12-1	53



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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Acq On : 11 Jan 2018 16:59
Operator : SJ/JU
Sample : J1081-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

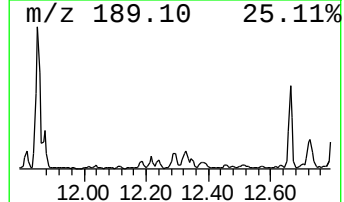
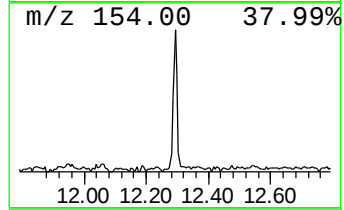
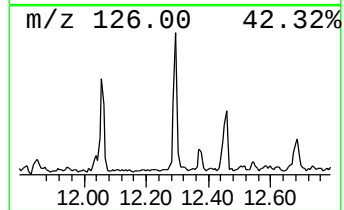
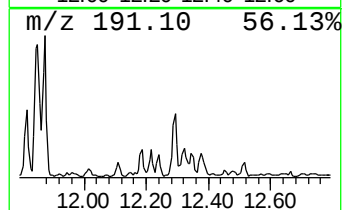
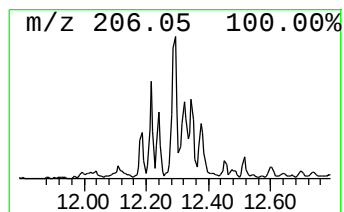
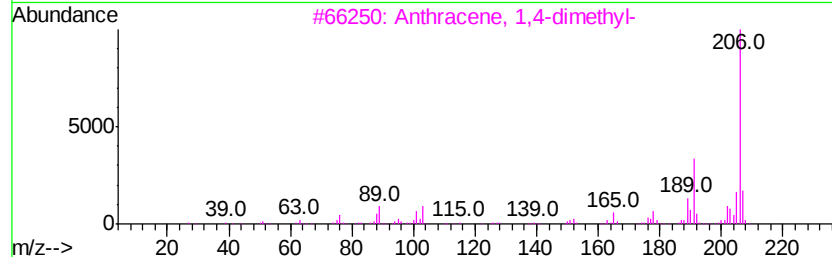
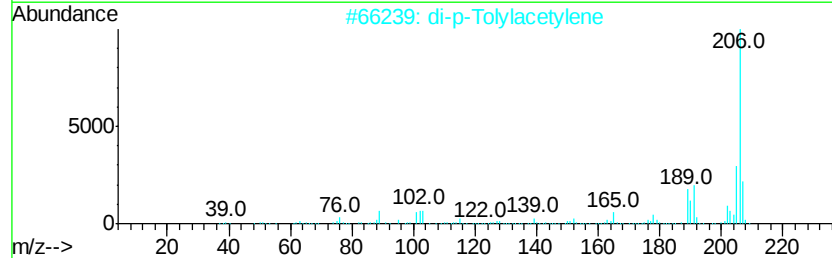
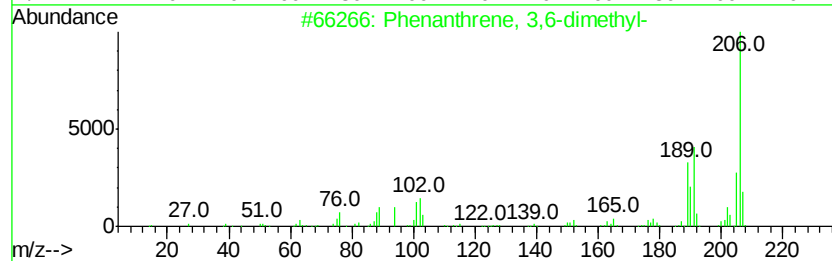
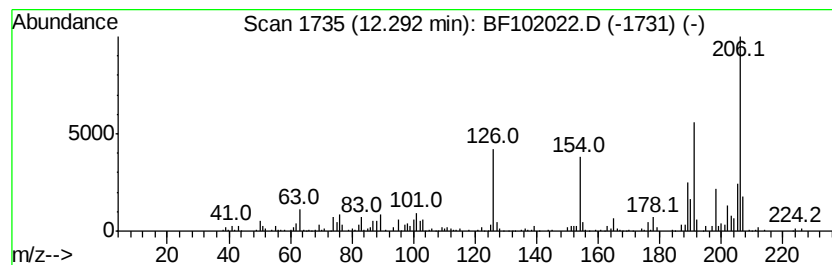
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.29	5.83 ng	317203	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	86
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	70
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	70
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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ALS Vial : 6 Sample Multiplier: 1

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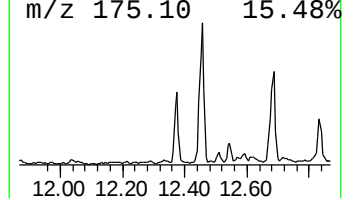
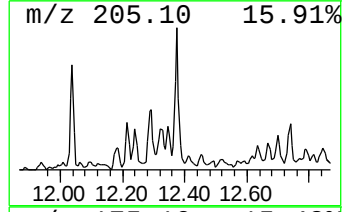
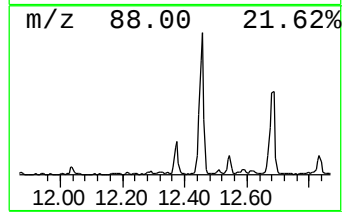
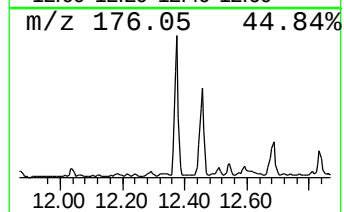
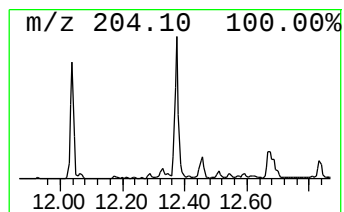
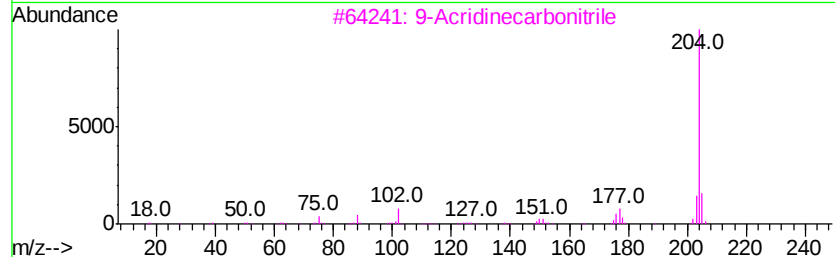
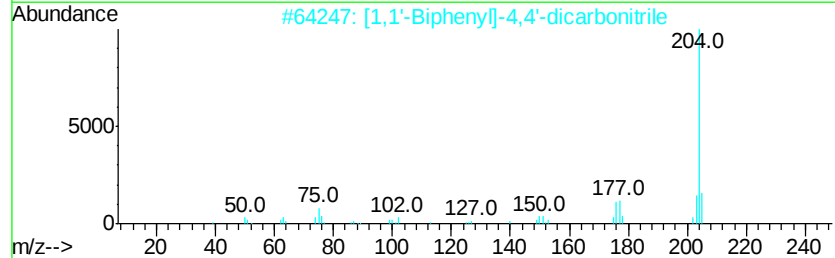
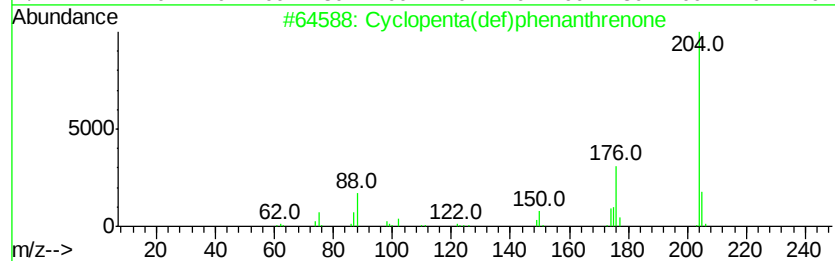
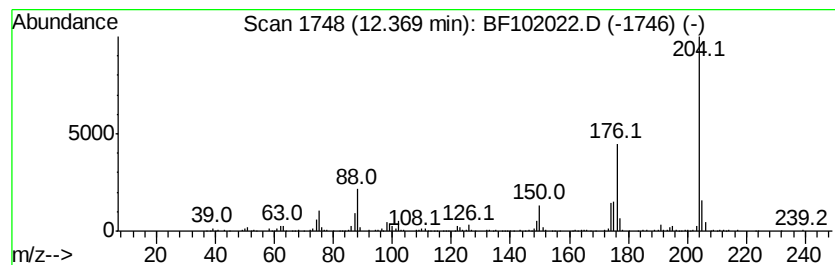
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	8.57 ng	466344	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3		9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50
4		1,2,4,8-Tetramethylbicyclo[6.3.0...]	204	C15H24	137235-51-9	49
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	43



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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Acq On : 11 Jan 2018 16:59
Operator : SJ/JU
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Misc :
ALS Vial : 6 Sample Multiplier: 1

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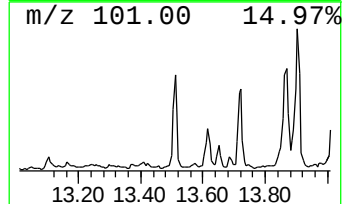
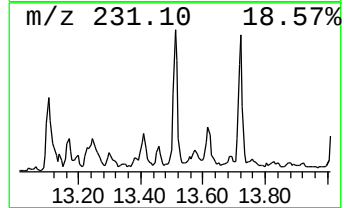
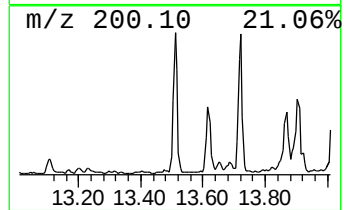
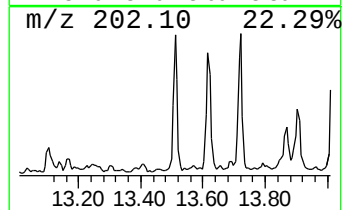
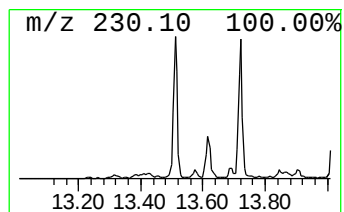
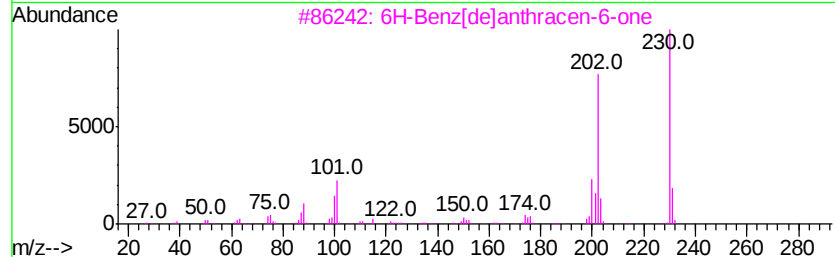
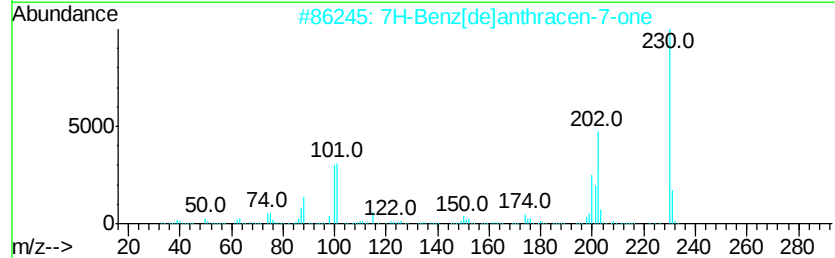
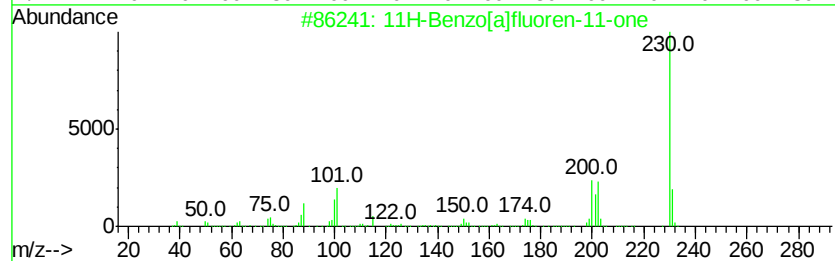
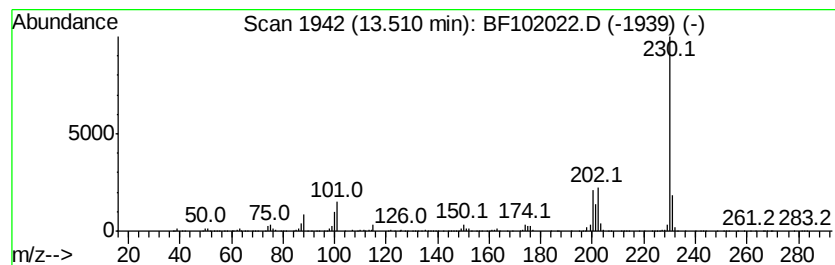
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	3.99 ng	733540	Chrysene-d12	13.88

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	99
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3		6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	83
4		o-Terphenyl	230	C18H14	000084-15-1	59
5		1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	52



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011118\
Data File : BF102022.D
Acq On : 11 Jan 2018 16:59
Operator : SJ/JU
Sample : J1081-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EPE-106-1(0-5)

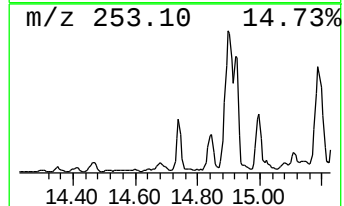
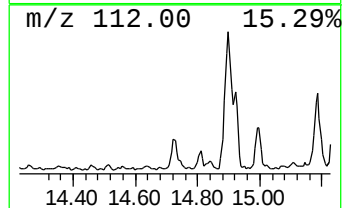
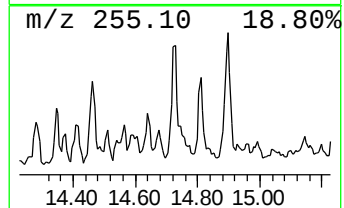
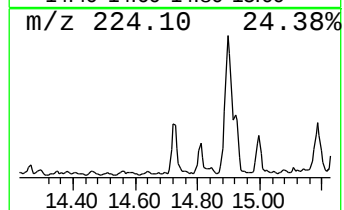
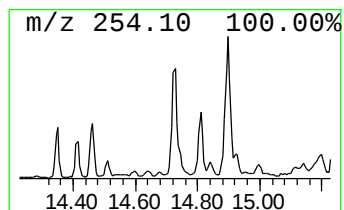
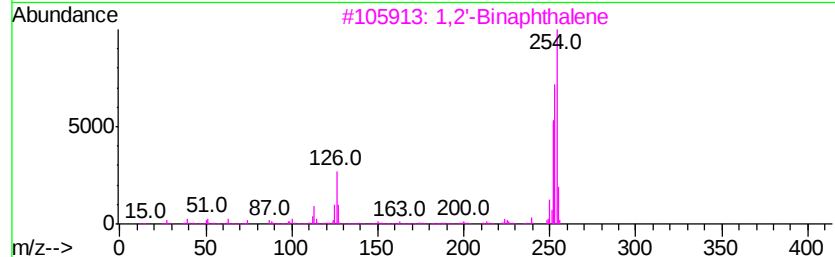
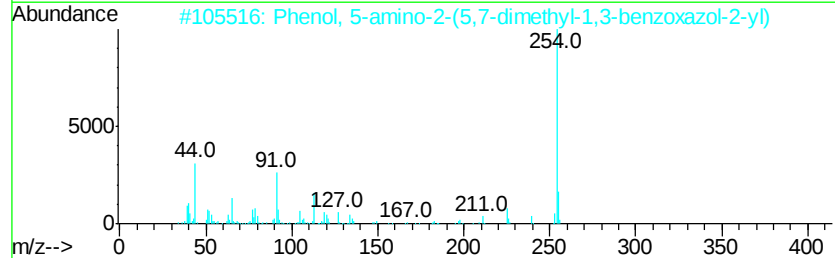
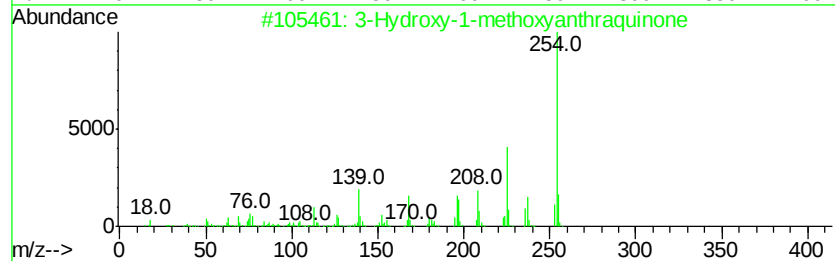
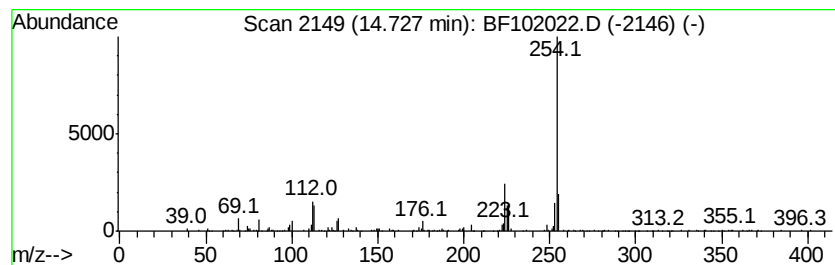
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 3-Hydroxy-1-methoxyanthraqu... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	5.82 ng	276061	Perylene-d12	15.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	59
2		Phenol, 5-amino-2-(5,7-dimethyl-...	254	C15H14N2O2	1000338-06-4	53
3		1,2'-Binaphthalene	254	C20H14	004325-74-0	53
4		2,6-Di(2-furylmethylidene)cyclohex...	254	C16H14O3	000893-00-5	52
5		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	50



Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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Operator : SJ/JU
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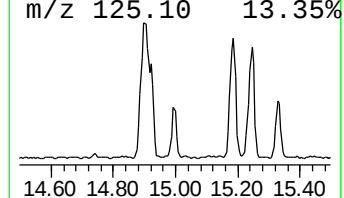
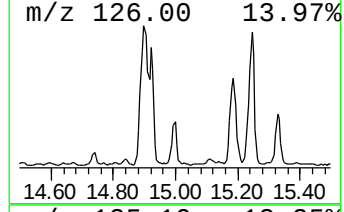
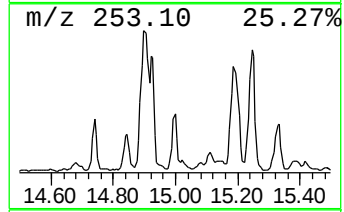
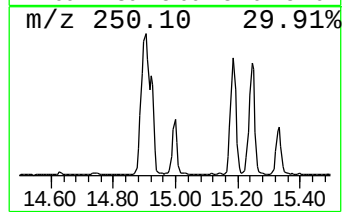
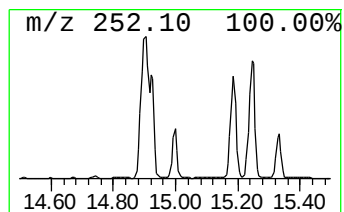
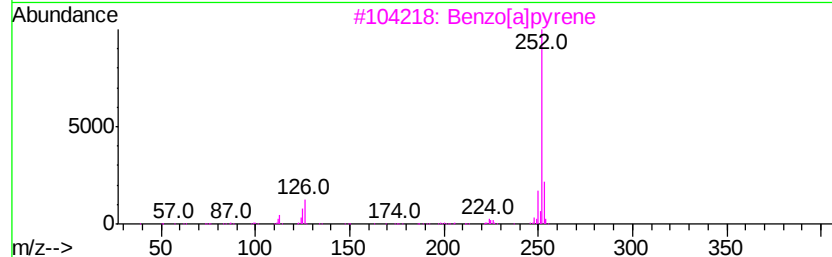
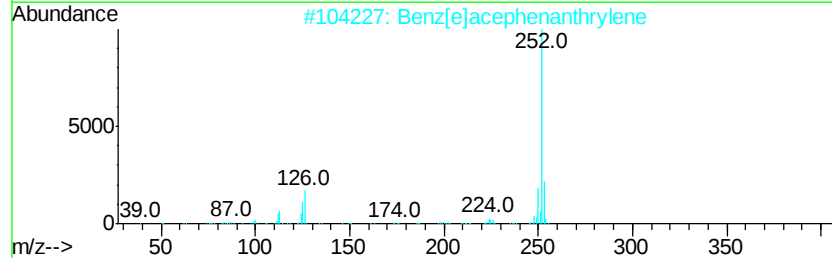
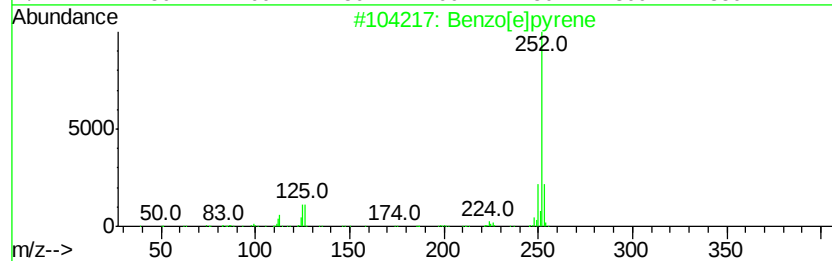
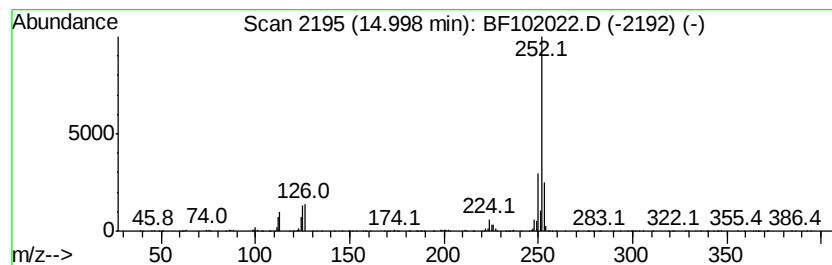
Instrument :
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	12.31 ng	583700	Perylene-d12	15.30
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Benzo[e]pyrene	252 C20H12	000192-97-2 98
2		Benzo[e]acephenanthrylene	252 C20H12	000205-99-2 96
3		Benzo[a]pyrene	252 C20H12	000050-32-8 95
4		Benzo[i]fluoranthene	252 C20H12	000205-82-3 93
5		Benzo[k]fluoranthene	252 C20H12	000207-08-9 91



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011118\
 Data File : BF102022.D
 Acq On : 11 Jan 2018 16:59
 Operator : SJ/JU
 Sample : J1081-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EPE-106-1(0-5)

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
2-Pentanone, 4-hy...	4.92	9.1 ng		529316	1	6.73	1162750	20.0
unknown6.49	6.49	68.5 ng		3984340	1	6.73	1162750	20.0
1(2H)-Acenaphthyl...	10.67	4.9 ng		267858	4	11.24	1088480	20.0
9H-Fluoren-9-one	11.05	8.4 ng		456326	4	11.24	1088480	20.0
Dibenzothiophene	11.13	5.0 ng		271710	4	11.24	1088480	20.0
Anthracene, 2-met...	11.74	8.6 ng		469620	4	11.24	1088480	20.0
Phenanthrene, 2-m...	11.77	14.8 ng		806588	4	11.24	1088480	20.0
4H-Cyclopenta[def...	11.85	11.6 ng		629804	4	11.24	1088480	20.0
Phenanthrene, 1-m...	11.87	5.1 ng		275311	4	11.24	1088480	20.0
Naphthalene, 2-ph...	12.04	6.0 ng		325819	4	11.24	1088480	20.0
9,10-Anthracenedione	12.06	10.5 ng		572353	4	11.24	1088480	20.0
Phenanthrene, 3,6...	12.29	5.8 ng		317203	4	11.24	1088480	20.0
Cyclopenta(def)ph...	12.37	8.6 ng		466344	4	11.24	1088480	20.0
11H-Benzo[a]fluor...	13.51	4.0 ng		733540	5	13.88	3672560	20.0
3-Hydroxy-1-metho...	14.73	5.8 ng		276061	6	15.30	948499	20.0
Benzo[e]pyrene	15.00	12.3 ng		583700	6	15.30	948499	20.0