LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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	5.469	572	575	593	rVB	1538295	1609888	19.63%	1.449%
2	6.481	744	747	764	rVB	1889261	1792235	21.85%	1.613%
3	6.622	767	771	778	rBV	2155712	1781945	21.72%	1.604%
4	6.851	806	810	817	rBV	2007004	1621314	19.77%	1.460%
5	7.004	833	836	844	rBV	1406843	1273592	15.53%	1.146%
6	7.404	901	904	911	rBV	1215927	1124002	13.70%	1.012%
7	8.133	1024	1028	1030	rBV	2488127	2142048	26.11%	1.928%
8	8.151	1030	1031	1038	rVB	451932	303967	3.71%	0.274%
9	8.845	1146	1149	1155	rVB	255302	215284	2.62%	0.194%
10	9.204	1206	1210	1213	rBV	1942334	1556545	18.98%	1.401%
11	9.598	1274	1277	1284	rVB2	327346	450830	5.50%	0.406%
12	9.745	1298	1302	1309	rBV	977511	794083	9.68%	0.715%
13	9.886	1322	1326	1330	rVB	2593324	2304166	28.09%	2.074%
14	10.439	1416	1420	1425	rVB3	122549	201404	2.46%	0.181%
15	10.669	1454	1459	1464	rBV	1262993	1137546	13.87%	1.024%
16	10.798	1477	1481	1484	rBV3	192971	222070	2.71%	0.200%
17	11.174	1542	1545	1549	rVB	293569	246606	3.01%	0.222%
18	11.263	1558	1560	1566	rVB	270017	257289	3.14%	0.232%
19	11.369	1574	1578	1580	rBV	2832230	2515645	30.67%	2.265%
20	11.392	1580	1582	1588	rVV	3370839	2876458	35.07%	2.589%
21	11.445	1588	1591	1593	rVV	541025	442087	5.39%	0.398%
22	11.663	1622	1628	1631	rVB2	559966	531047	6.47%	0.478%
23	11.698	1631	1634	1638	rBV	411754	367772	4.48%	0.331%
24	11.786	1646	1649	1652	rVB	189055	215343	2.63%	0.194%
25	11.827	1652	1656	1660	rBV2	188088	240439	2.93%	0.216%
26	11.868	1660	1663	1666	rBV	1184658	1196407	14.59%	1.077%
27	11.898	1666	1668	1673	rVB	1617303	1333022	16.25%	1.200%
28	11.980	1678	1682	1685	rBV2	1927148	2049628	24.99%	1.845%
29	12.004	1685	1686	1691	rVB	1192731	800364	9.76%	0.720%
30	12.104	1701	1703	1705	rVV	246264	194271	2.37%	0.175%
31	12.163	1710	1713	1716	rVV	1253969	1237147	15.08%	1.114%
32	12.192	1716	1718	1724	rVB2	1208749	1104112	13.46%	0.994%
33	12.298	1733	1736	1737	rBV	191032	182343	2.22%	0.164%
34	12.316	1737	1739	1742	rVV	353237	362345	4.42%	0.326%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.345	1742	1744	1746	rVV	407199	330633	4.03%	0.298%
36	12.368	1746	1748	1751	rVB2	276144	243668	2.97%	0.219%
37	12.421	1751	1757	1760	rBV3	1192865	1524998	18.59%	1.373%
38	12.457	1760	1763	1765	rVV2	634921	786094	9.58%	0.708%
39	12.480	1765	1767	1769	rVV	398727	321650	3.92%	0.290%
40	12.510	1769	1772	1776	rVV	1054843	1231039	15.01%	1.108%
41	12.586	1780	1785	1788	rVV	5252728	4856150	59.20%	4.372%
42	12.627	1788	1792	1794	rVV	412574	404885	4.94%	0.364%
43	12.645	1794	1795	1798	rVV2	293905	292659	3.57%	0.263%
44	12.680	1798	1801	1804	rVV	1155499	1068753	13.03%	0.962%
45	12.715	1804	1807	1809	rVV2	554795	552068	6.73%	0.497%
46	12.751	1812	1813	1819	rVV3	345599	376731	4.59%	0.339%
47	12.821	1819	1825	1829	rVV	7459452	8202787	100.00%	7.384%
48	12.868	1829	1833	1836	rVB2	370860	424111	5.17%	0.382%
49	12.951	1844	1847	1854	rVB	1543360	1723294	21.01%	1.551%
50	13.027	1857	1860	1867	rBV2	989623	1502634	18.32%	1.353%
51	13.086	1867	1870	1872	rVV3	294289	257966	3.14%	0.232%
52	13.115	1872	1875	1877	rVV4	993919	1292715	15.76%	1.164%
53	13.139	1877	1879	1882	rVB	1146438	1000671	12.20%	0.901%
54	13.180	1882	1886	1888	rBV5	224225	272362	3.32%	0.245%
55	13.204	1888	1890	1894	rVV2	465818	475410	5.80%	0.428%
56	13.245	1894	1897	1900	rVV	1677666	1461424	17.82%	1.316%
57	13.310	1904	1908	1909	rBV2	172535	200140	2.44%	0.180%
58	13.339	1909	1913	1915	rVV	1452681	1363577	16.62%	1.228%
59	13.368	1915	1918	1921	rVB	1330394	1127591	13.75%	1.015%
60	13.457	1930	1933	1935	rVB2	250044	233693	2.85%	0.210%
61	13.545	1940	1948	1950	rVV4	224125	501626	6.12%	0.452%
62	13.645	1962	1965	1970	rVB	971625	970715	11.83%	0.874%
63	13.757	1978	1984	1986	rBV2	988796	1251848	15.26%	1.127%
64	13.786	1986	1989	1991	rVV	1211303	1072925	13.08%	0.966%
65	13.810	1991	1993	1996	rVV	865112	794223	9.68%	0.715%
66	13.857	1996	2001	2005	rVB2	768155	1054494	12.86%	0.949%
67	13.927	2010	2013	2020	rVB3	219087	376834	4.59%	0.339%
68	14.004	2021	2026	2030	rBV2	4072098	6577040	80.18%	5.921%
69	14.039	2030	2032	2036	rVV	4044670	3381254	41.22%	3.044%
70	14.098	2040	2042	2046	rBV3	218772	212953	2.60%	0.192%
71	14.133	2046	2048	2049	rVV	227705	193358	2.36%	0.174%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.157	2049	2052	2060	rVB	1492468	1783461	21.74%	1.605%
73	14.262	2068	2070	2073	rVB3	282423	263042	3.21%	0.237%
74	14.362	2084	2087	2089	rBV	354246	367673	4.48%	0.331%
75	14.398	2089	2093	2096	rVV	1144271	1237464	15.09%	1.114%
76	14.433	2096	2099	2103	rVV2	736520	833636	10.16%	0.750%
77	14.480	2103	2107	2111	rVV4	737261	1181151	14.40%	1.063%
78	14.521	2111	2114	2116	rVV2	621794	735899	8.97%	0.662%
79	14.545	2116	2118	2121	rVV	725767	595908	7.26%	0.536%
80	14.592	2123	2126	2129	rVB	547149	514961	6.28%	0.464%
81	14.780	2156	2158	2161	rBV3	224697	232071	2.83%	0.209%
82	14.821	2162	2165	2168	rVB2	367344	399095	4.87%	0.359%
83	14.857	2168	2171	2173	rBV2	185693	201287	2.45%	0.181%
84	14.880	2173	2175	2184	rVV2	228791	518132	6.32%	0.466%
85	14.951	2184	2187	2198	rVB4	238171	531592	6.48%	0.479%
86	15.057	2200	2205	2212	rVV	2409110	4777235	58.24%	4.300%
87	15.115	2212	2215	2218	rVB2	197944	225306	2.75%	0.203%
88	15.162	2219	2223	2227	rVB	597998	685529	8.36%	0.617%
89	15.356	2251	2256	2262	rVB	2068279	2715190	33.10%	2.444%
90	15.421	2262	2267	2271	rBV	2446415	3076037	37.50%	2.769%
91	15.480	2271	2277	2280	rVV2	1542479	2264926	27.61%	2.039%
92	15.509	2280	2282	2288	rVB3	410738	642626	7.83%	0.578%
93	15.798	2328	2331	2334	rBV	151747	181902	2.22%	0.164%
94	15.833	2335	2337	2344	rVB	178869	223949	2.73%	0.202%
95	15.998	2362	2365	2369	rVB2	178937	229616	2.80%	0.207%
96	16.039	2369	2372	2376	rVB2	231863	290445	3.54%	0.261%
97	16.945	2520	2526	2534	rVB2	881555	1679937	20.48%	1.512%
98	17.115	2551	2555	2559	rBV	135972	198179	2.42%	0.178%
99	17.174	2560	2565	2569	rBV2	167202	307468	3.75%	0.277%
100	17.392	2595	2602	2610	rVB	790983	1593644	19.43%	1.435%

Sum of corrected areas: 111085578

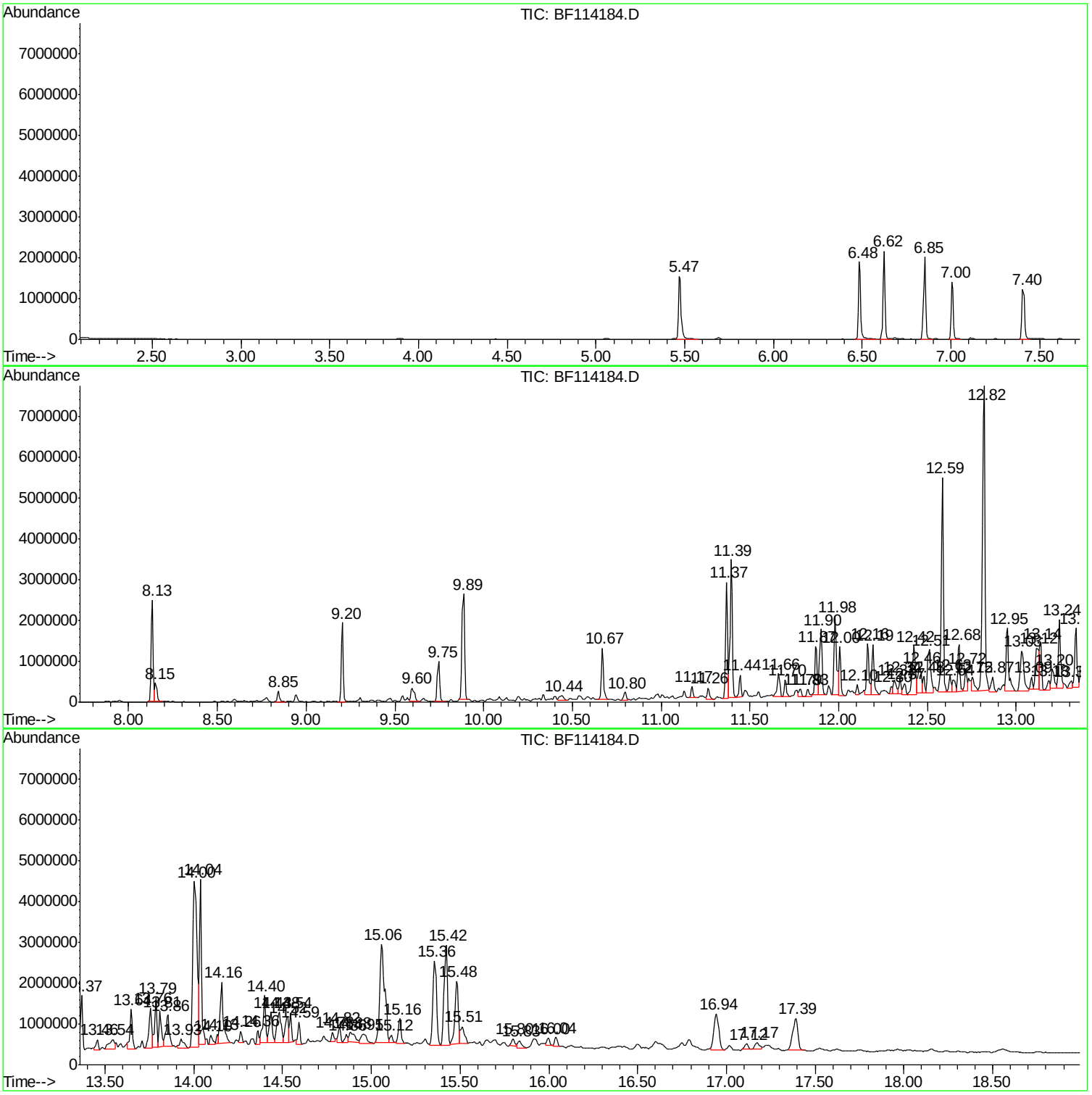
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

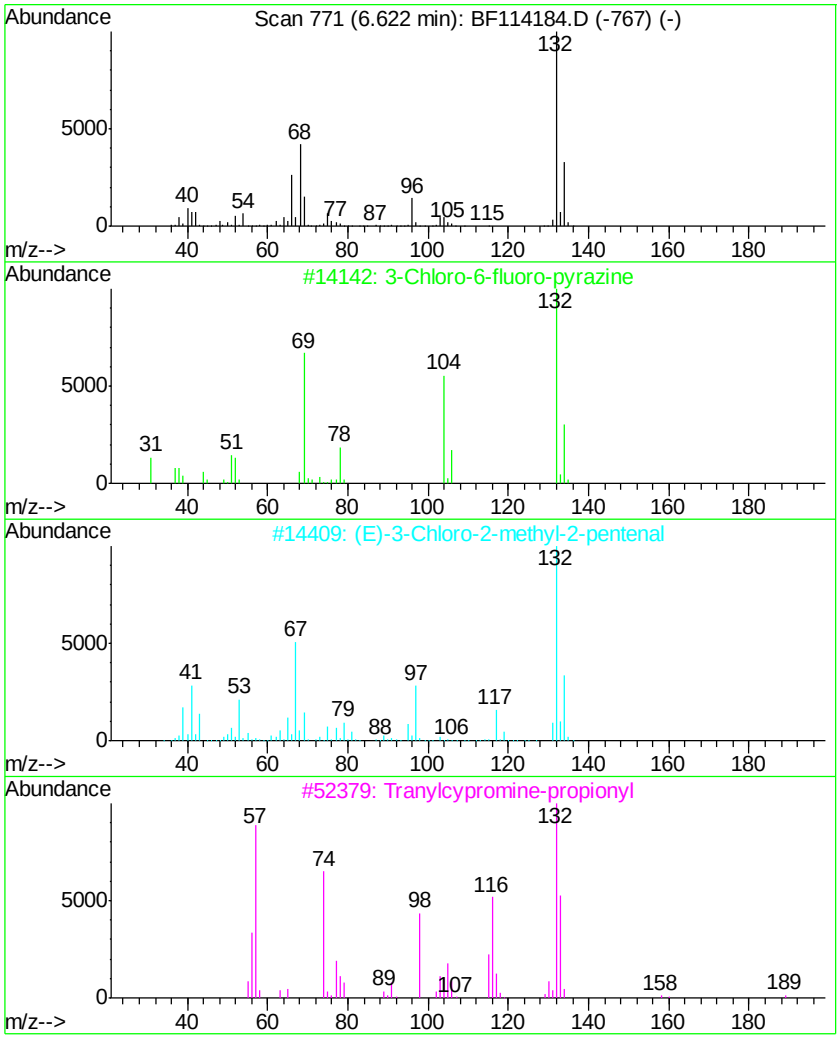
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

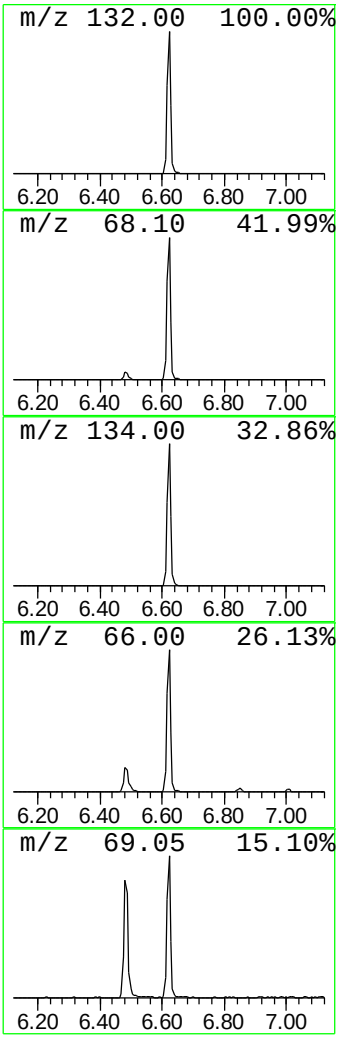
****

Peak Number 1 unknown6.62 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	21.98 ng	1781950	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	Amphetaminil	250	C17H18N2	017590-01-1	12
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

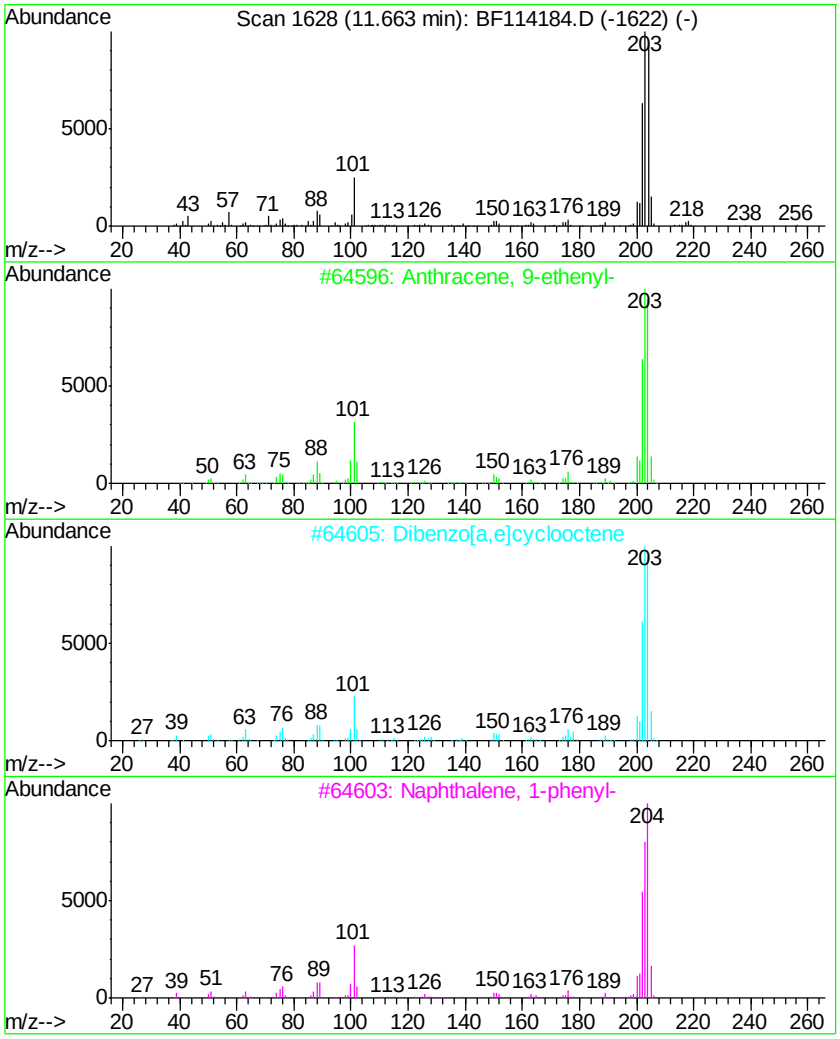
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

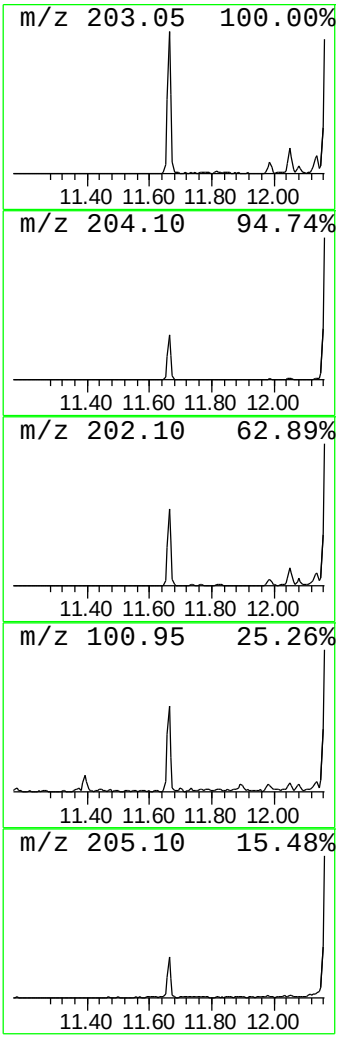
****

Peak Number 3 Anthracene, 9-ethenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	4.22 ng	531047	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	93
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
4	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	81
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

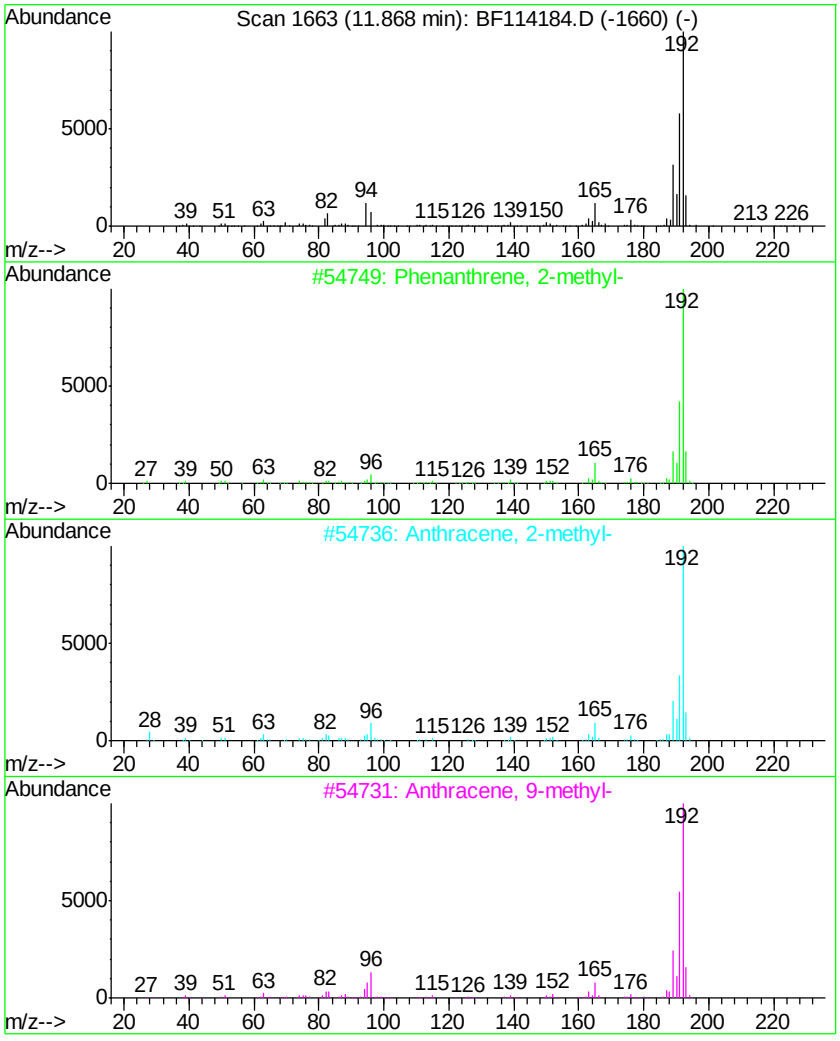
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

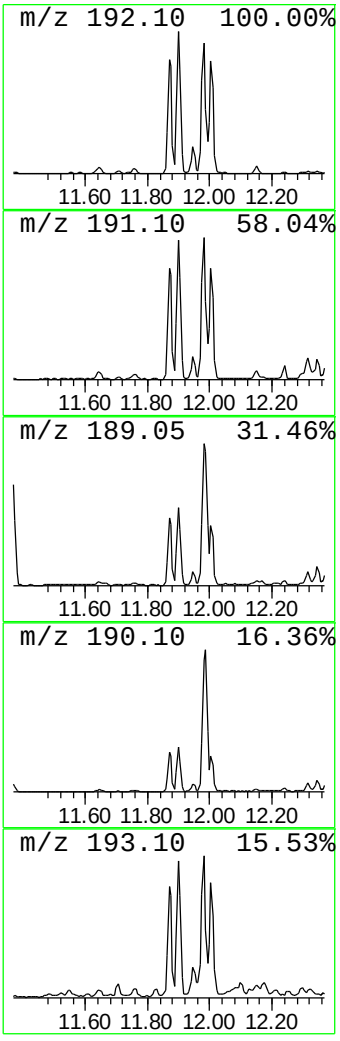
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	9.51 ng	1196410	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

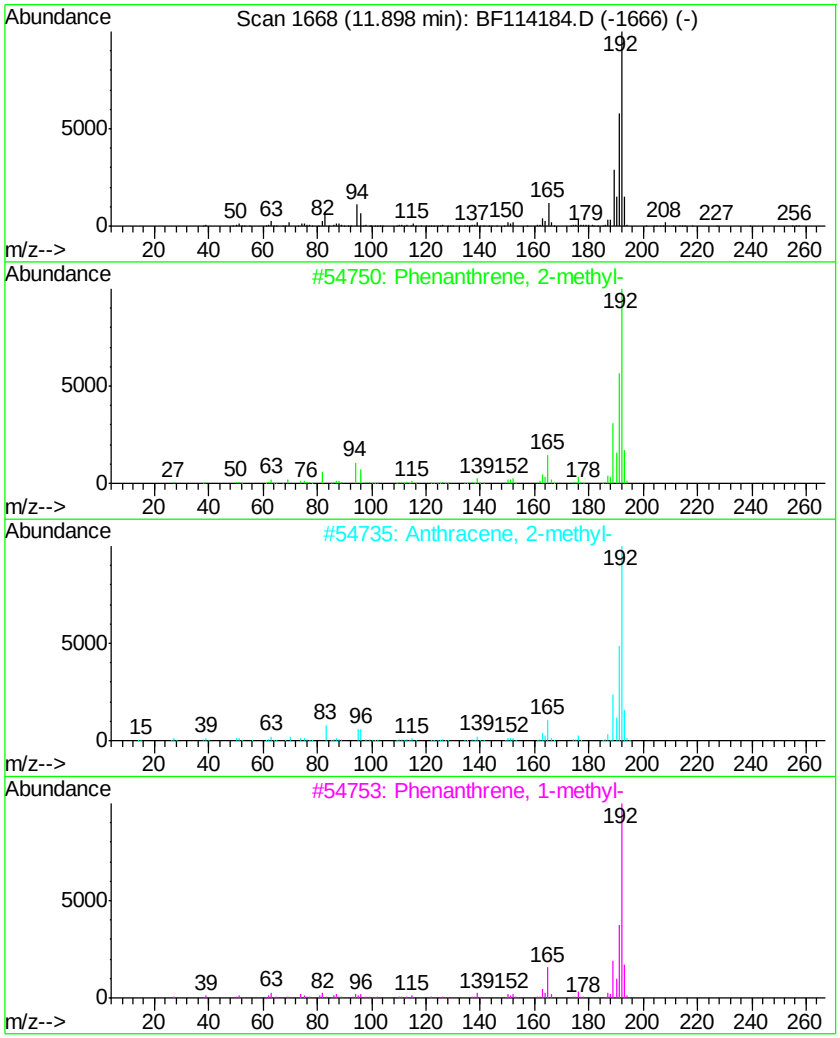
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

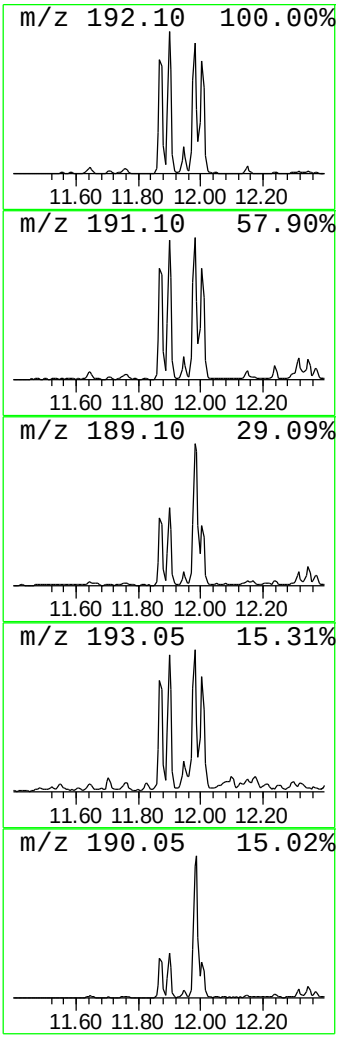
****

Peak Number 5 Anthracene, 9-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	10.60 ng	1333020	Phenanthrene-d10	11.37

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	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

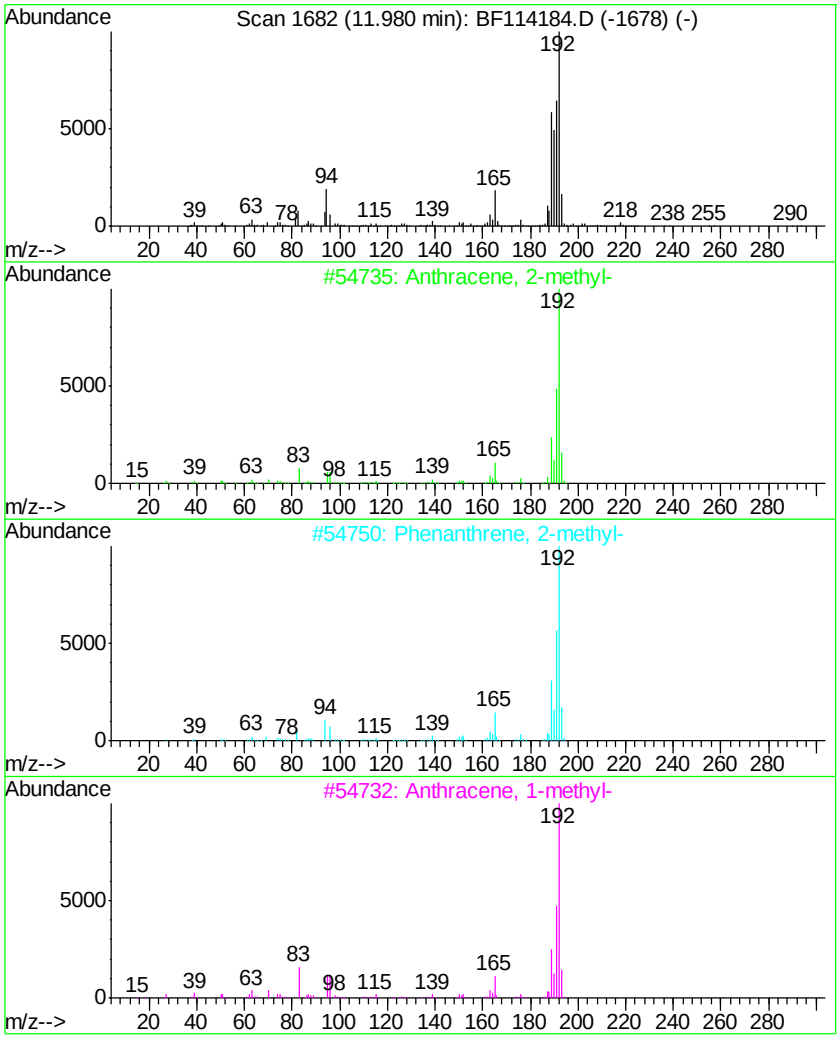
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

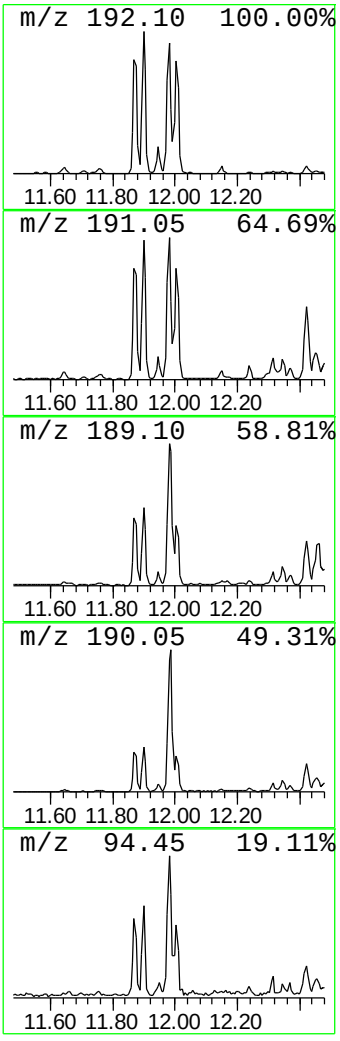
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	16.30 ng	2049630	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	60
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	60





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

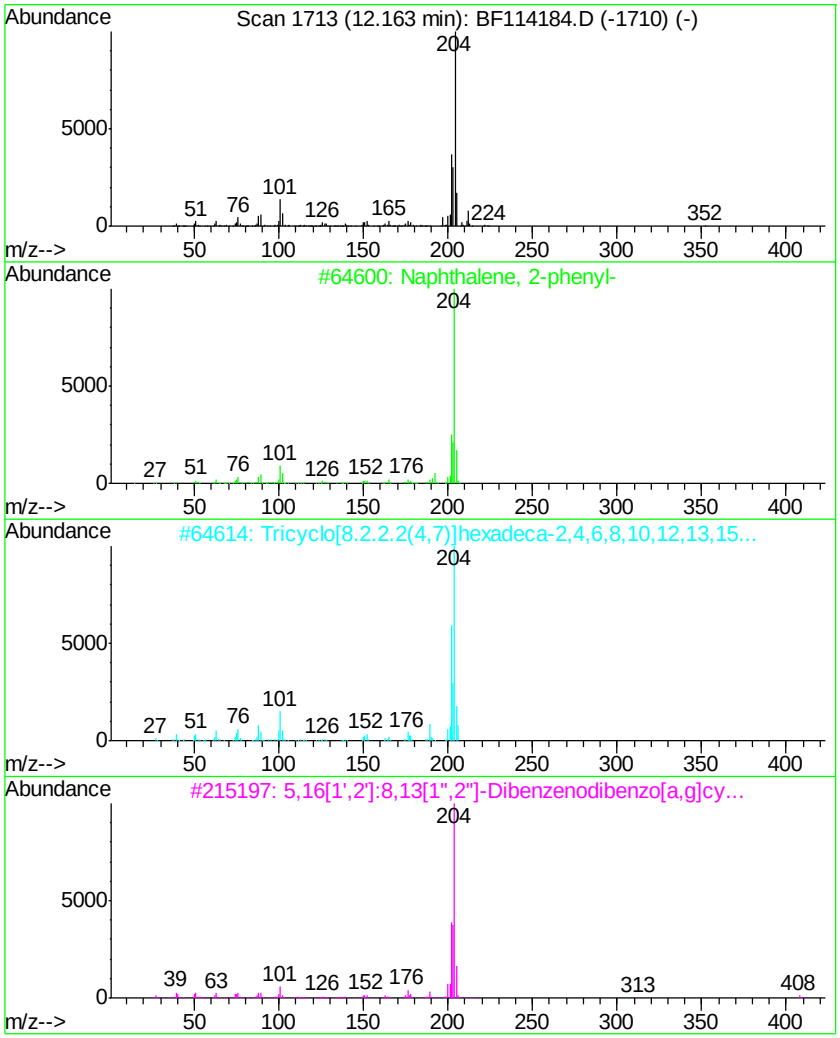
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

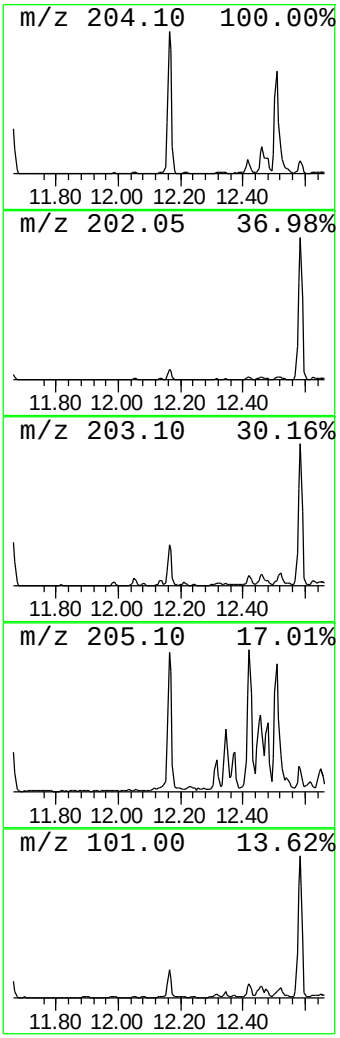
****

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	9.84 ng	1237150	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

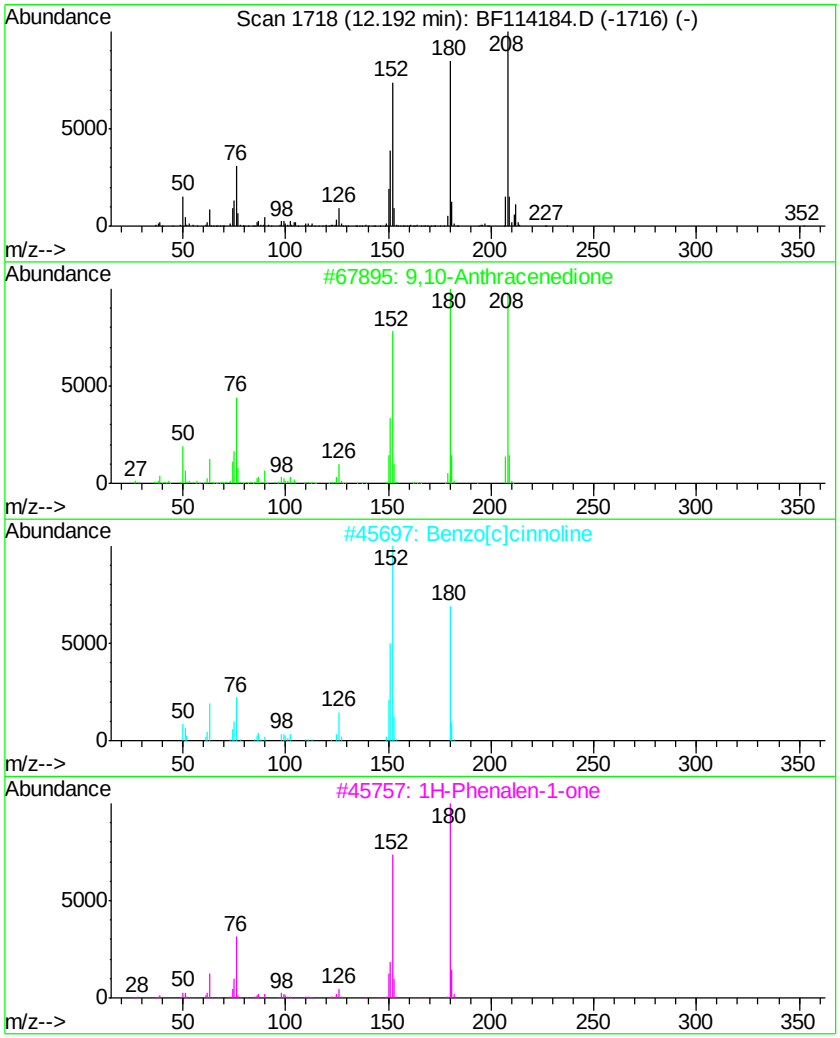
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

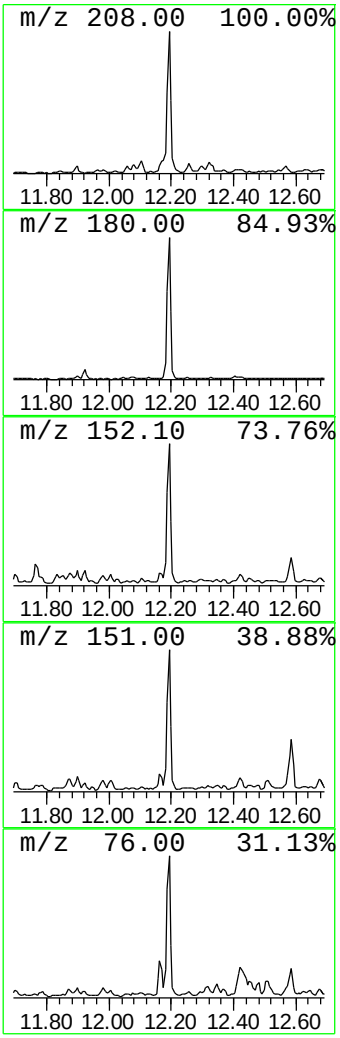
****

Peak Number 9 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	8.78 ng	1104110	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

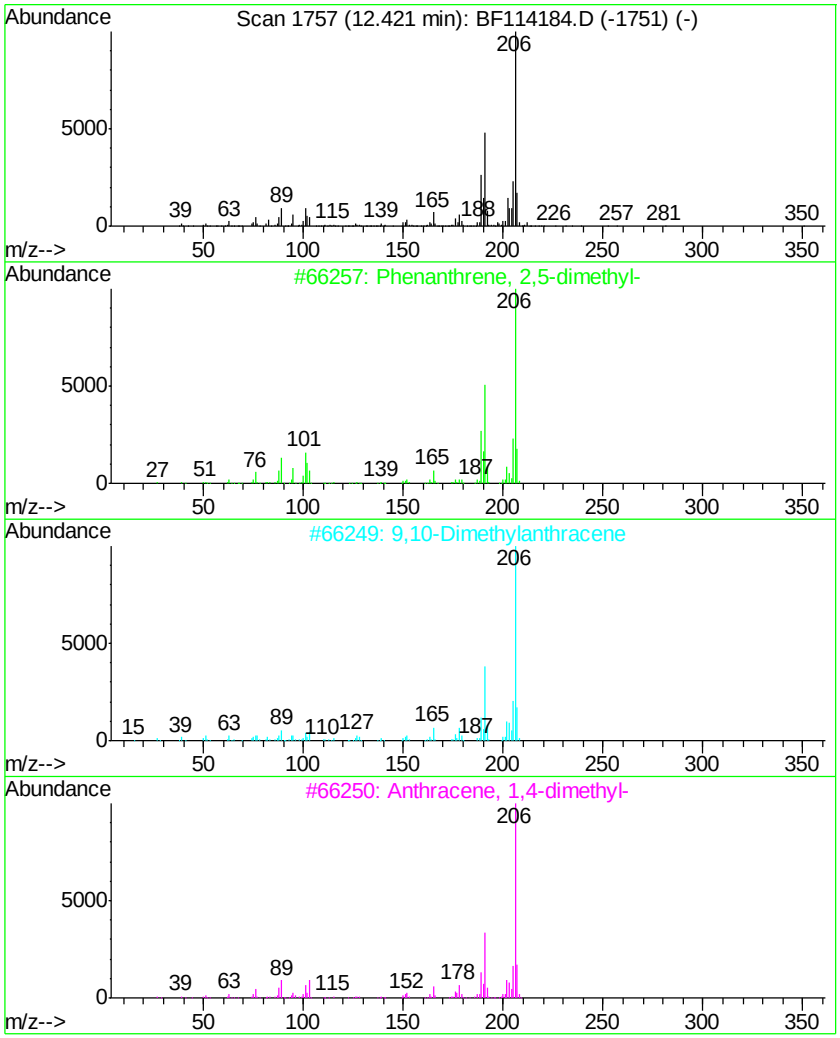
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

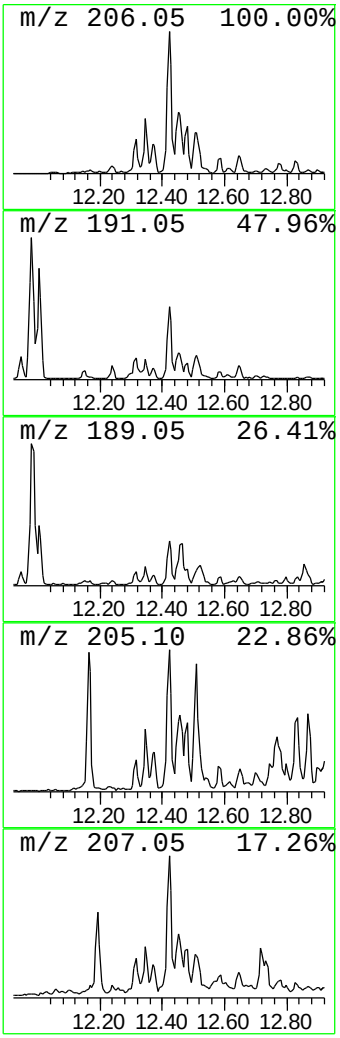
****

Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	12.12 ng	1525000	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	94
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

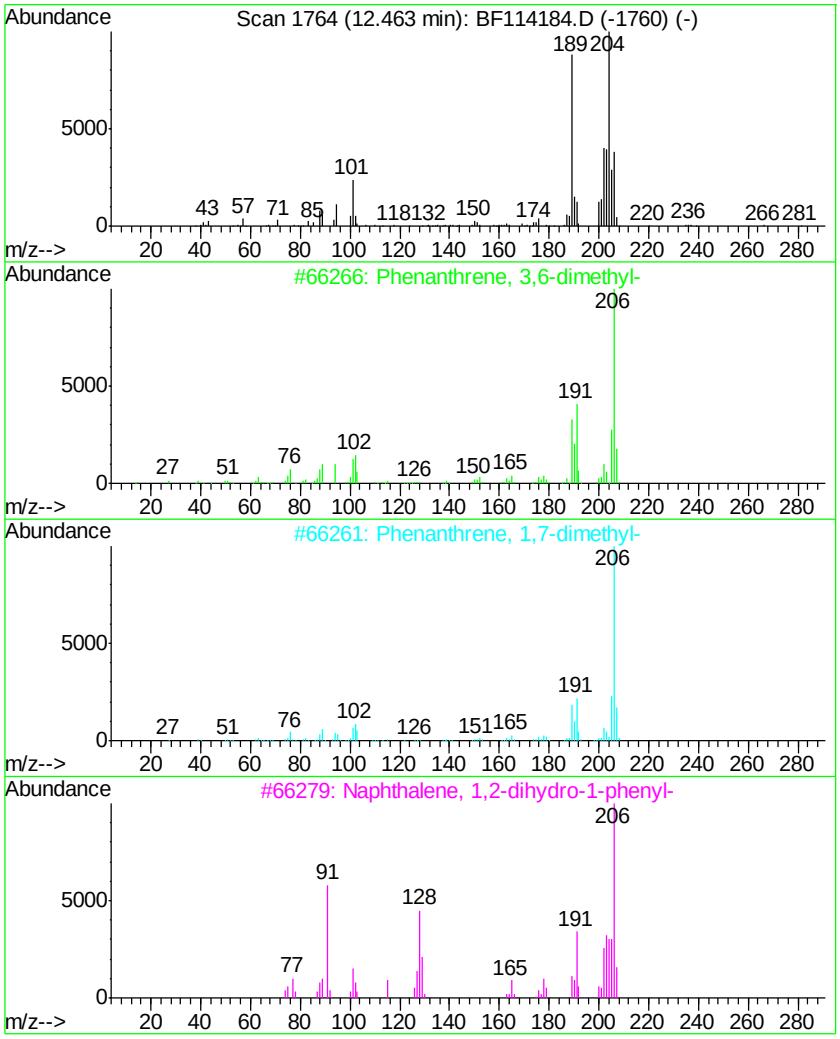
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

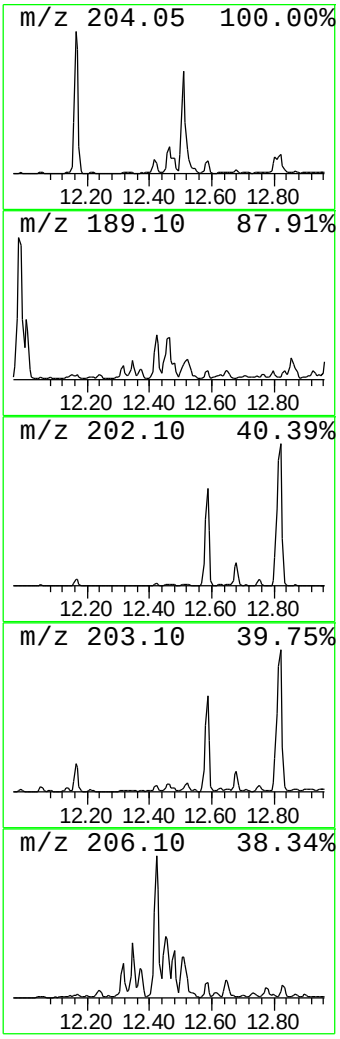
****

Peak Number 11 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	6.25 ng	786094	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	58
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	49
3	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	46
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	46
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

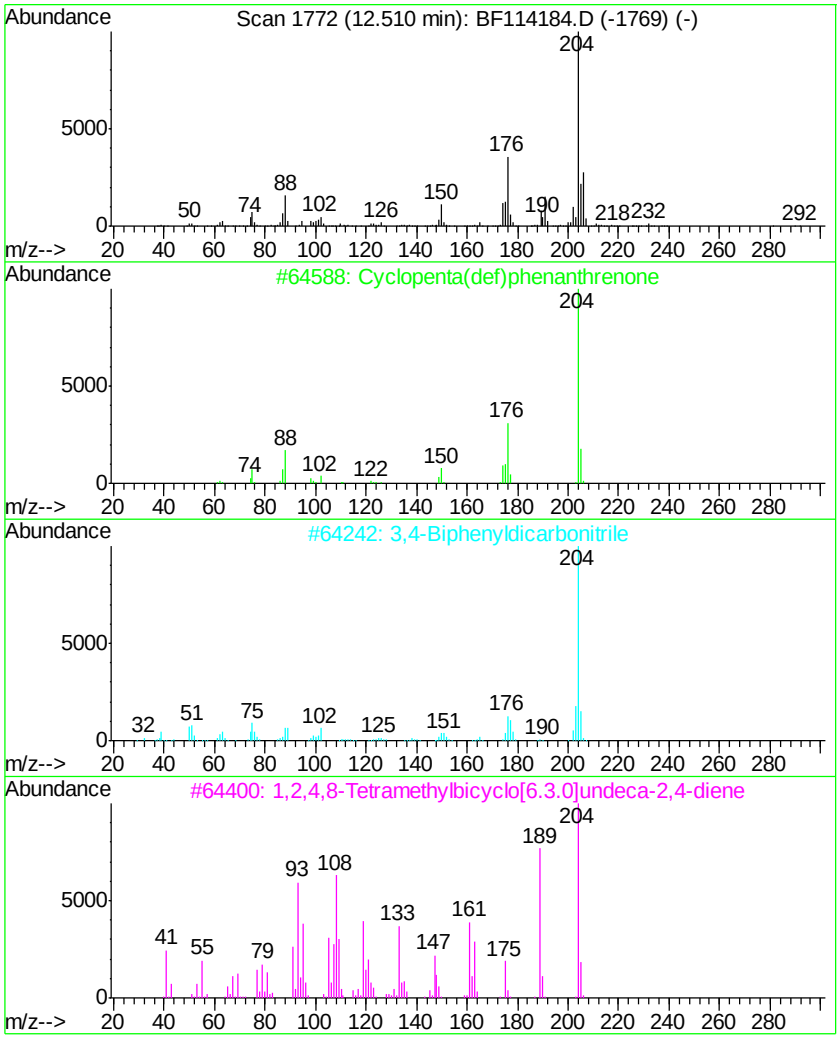
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

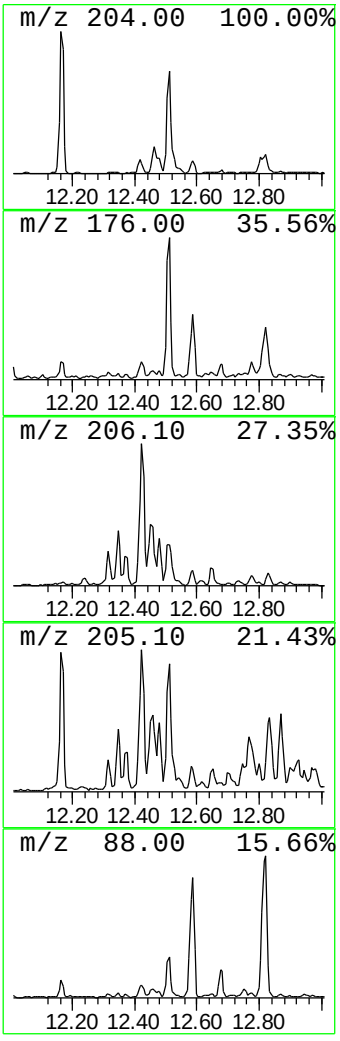
****

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	9.79 ng	1231040	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	64
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

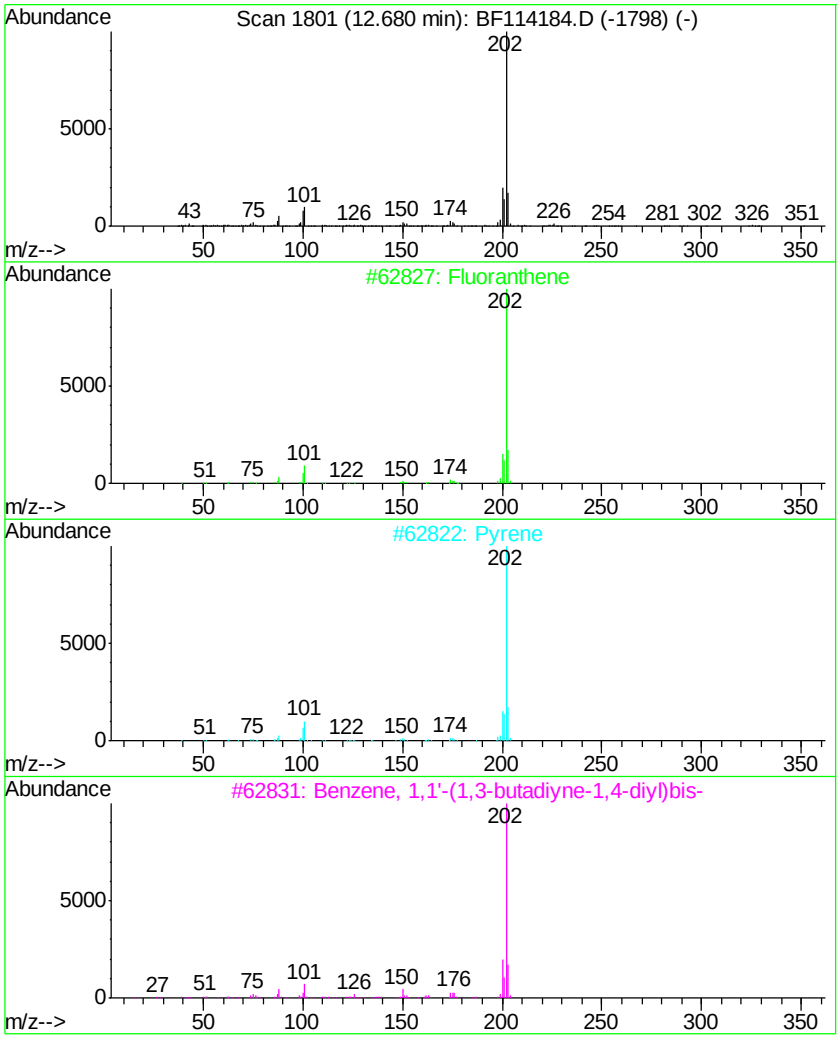
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

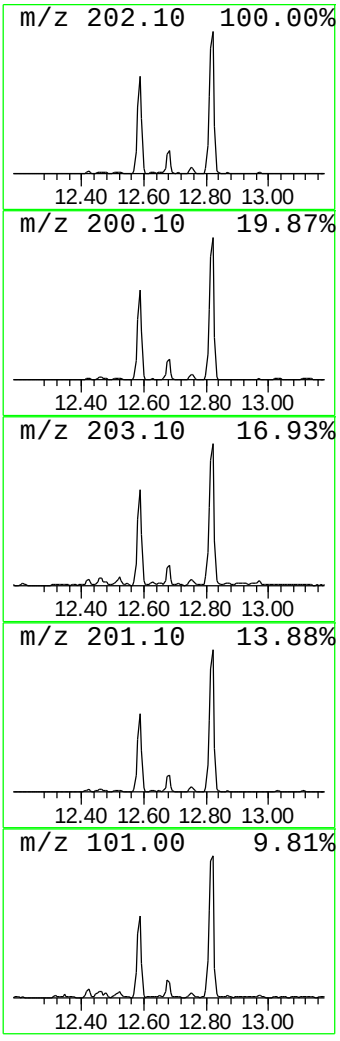
****

Peak Number 13 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.68	8.50 ng	1068750	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	96
2	Pyrene	202	C16H10	000129-00-0	94
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	72
4	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	52
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	39





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

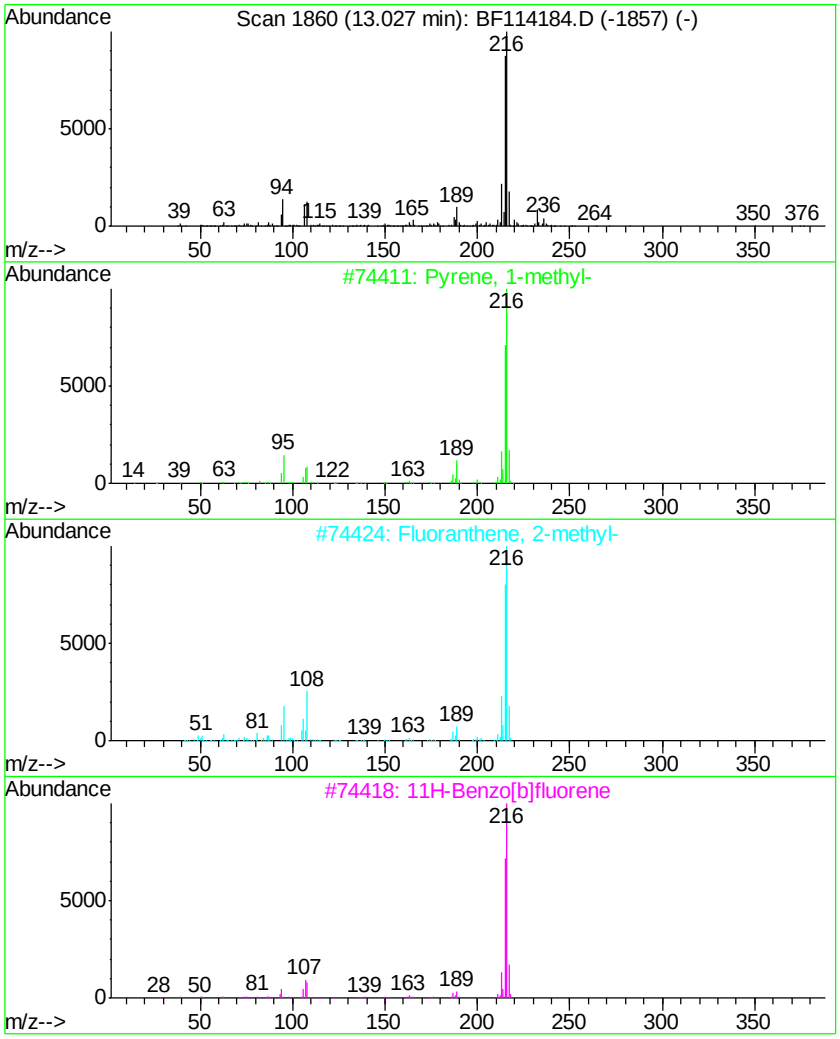
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

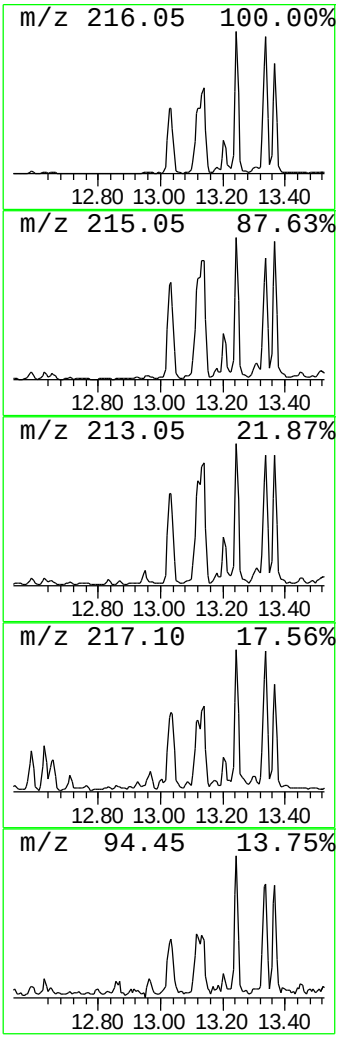
****

Peak Number 14 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	4.57 ng	1502630	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

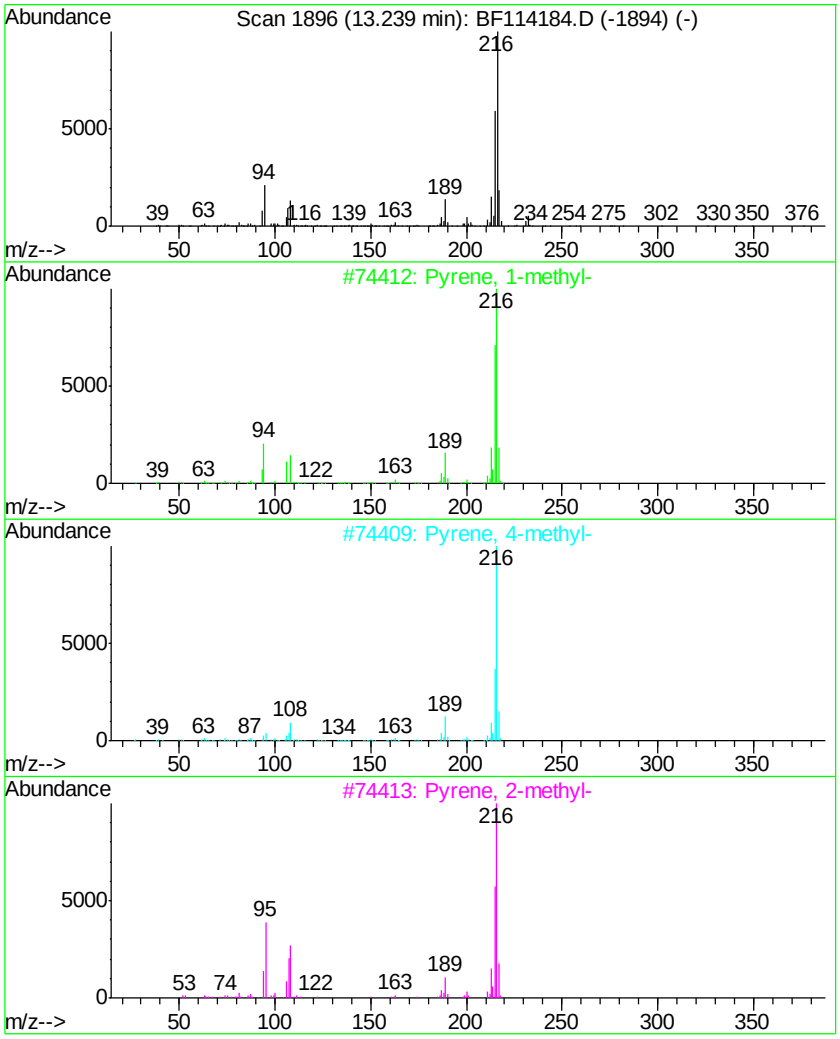
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

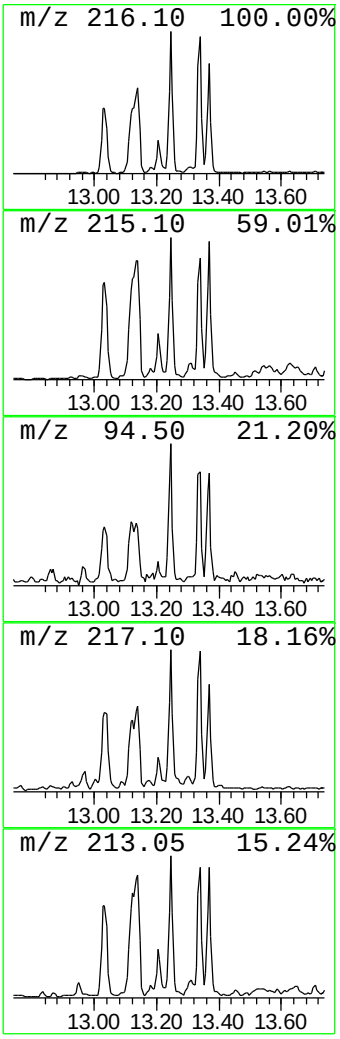
****

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.24	4.44 ng	1461420	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

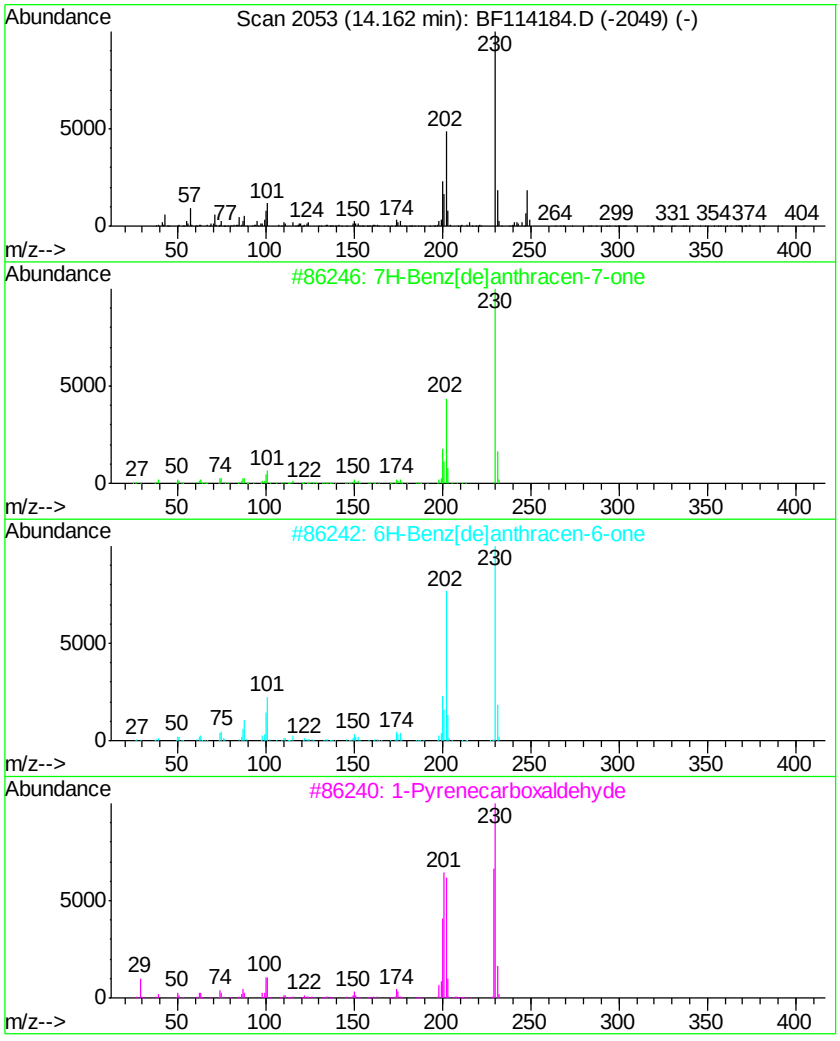
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

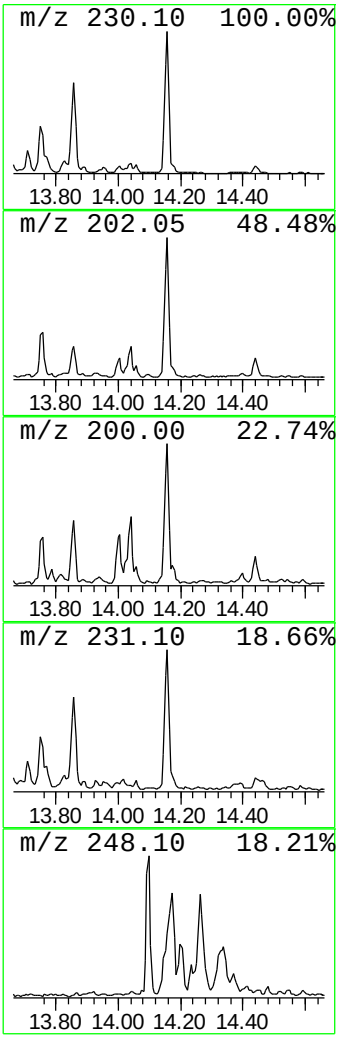
****

Peak Number 16 7H-Benz[de]anthracen-7-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.16	5.42 ng	1783460	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	95
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	95
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	81
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	76
5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

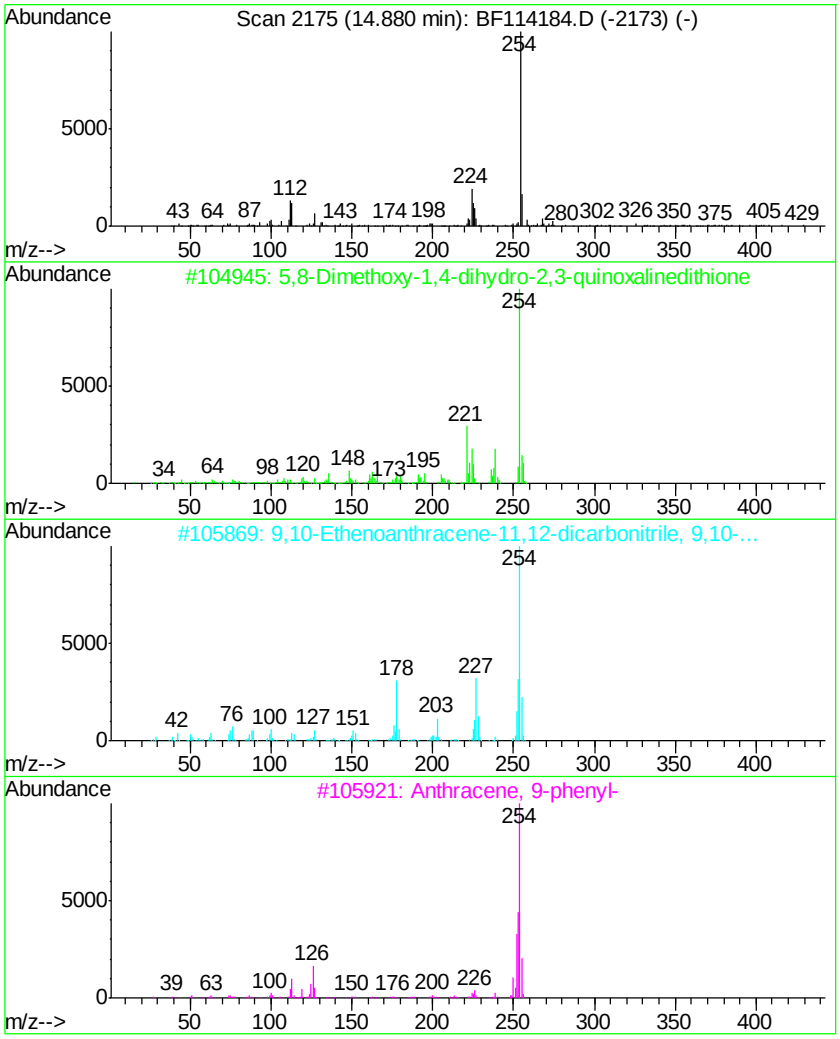
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

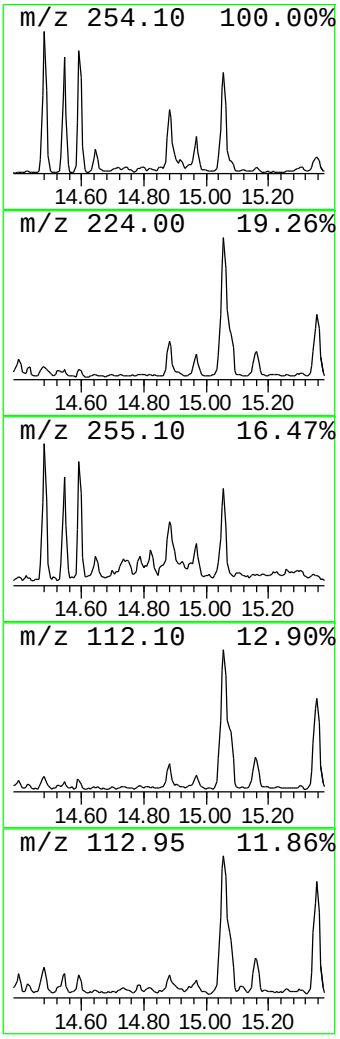
****

Peak Number 17 5,8-Dimethoxy-1,4-dihydro-2... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.88	4.58 ng	518132	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	53
2	9,10-Ethenoanthracene-11,12-dica...	254	C18H10N2	019067-49-3	50
3	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	50
4	1-Propene, 1,2-bis(4-methoxyphen...	254	C17H18O2	020802-02-2	47
5	Chrysin	254	C15H10O4	000480-40-0	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

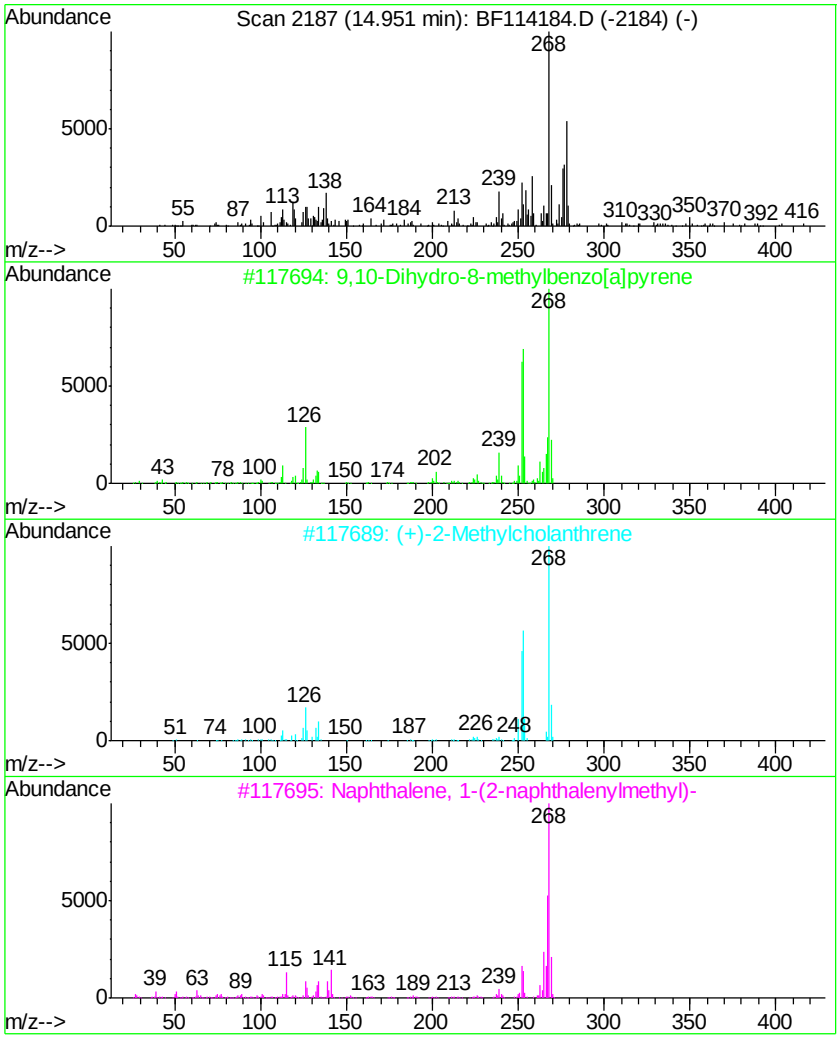
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

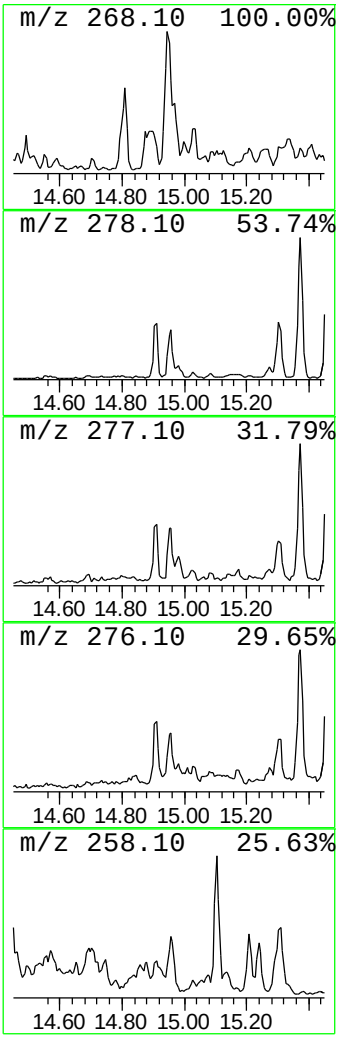
****

Peak Number 18 9,10-Dihydro-8-methylbenzo[... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.95	4.69 ng	531592	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	66
2	(+)-2-Methylcholanthrene	268	C21H16	1000126-56-1	38
3	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	38
4	3-Methylcholanthrene	268	C21H16	000056-49-5	38
5	(-)-2-Methylcholanthrene	268	C21H16	1000126-56-2	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

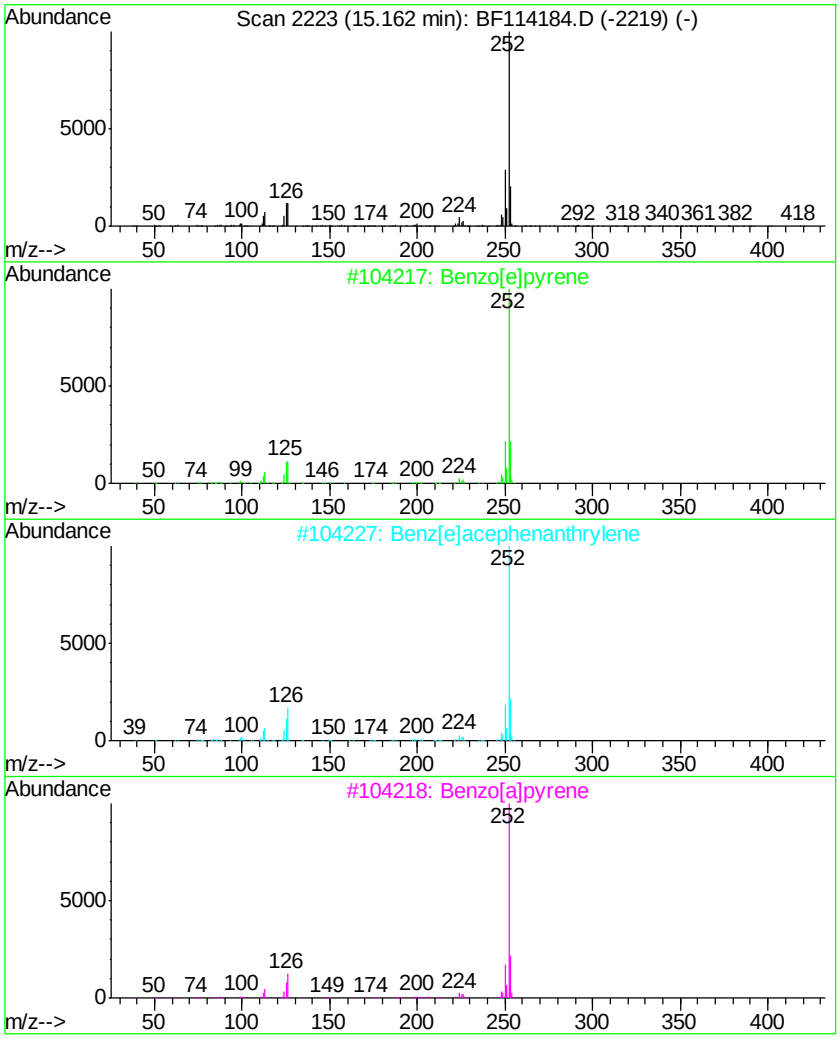
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

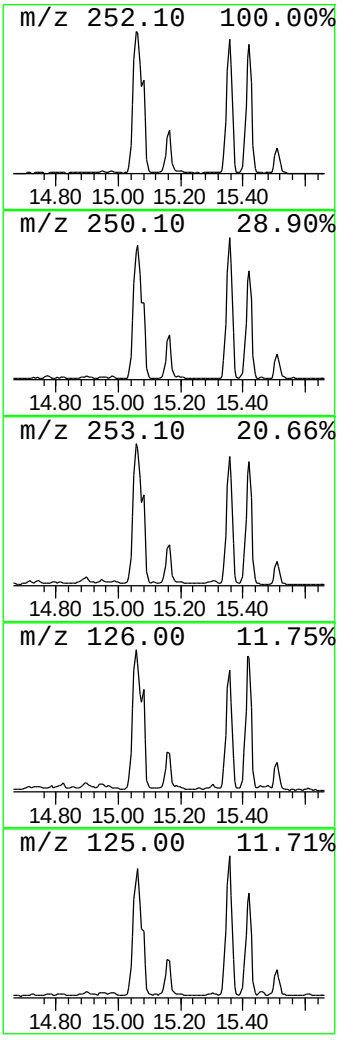
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	6.05 ng	685529	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	76





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

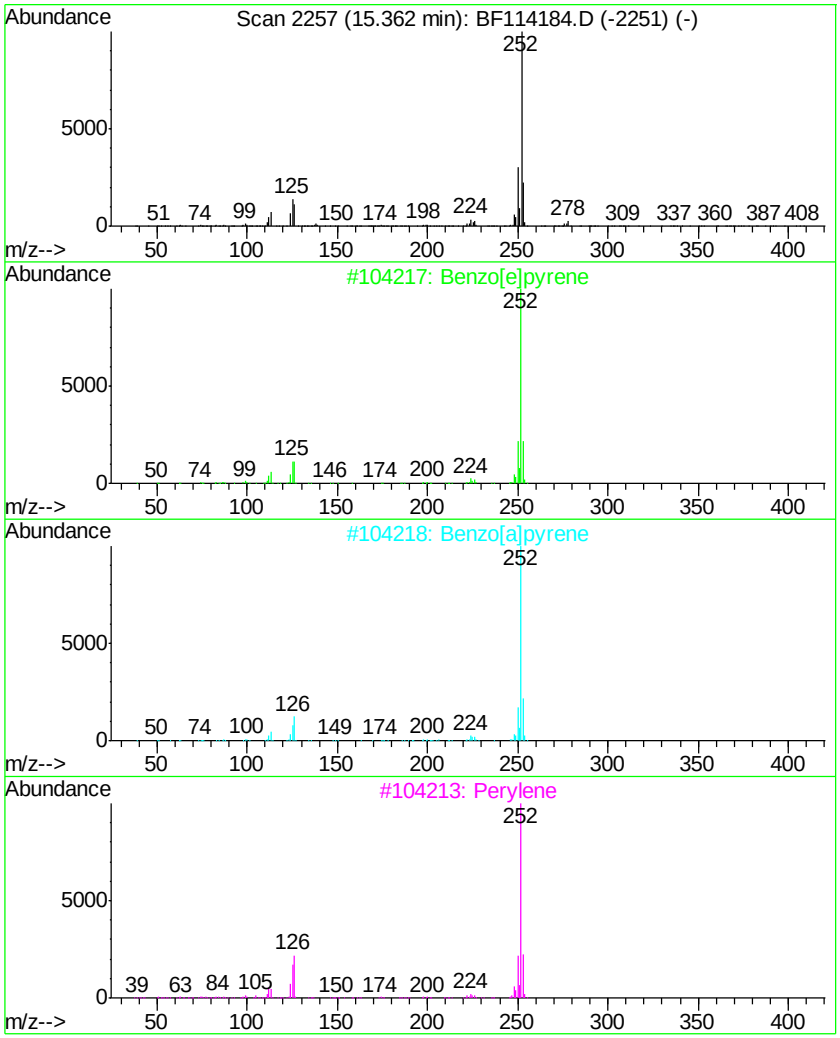
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

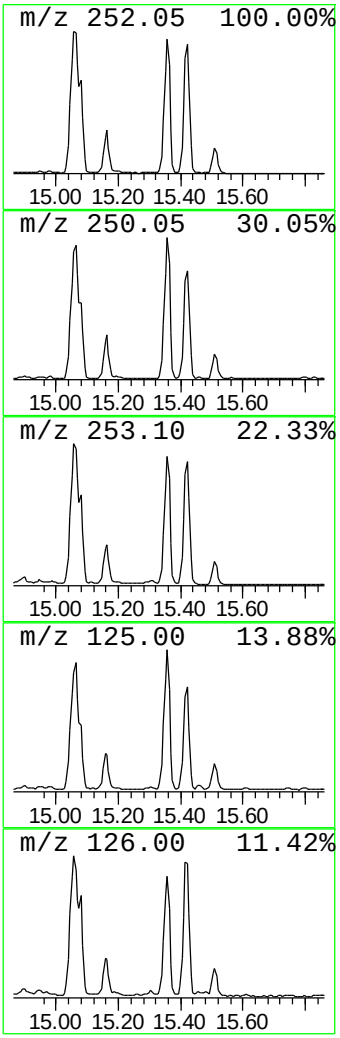
****

Peak Number 20 unknown15.36 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	23.98 ng	2715190	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	97
3	Perylene	252	C20H12	000198-55-0	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
Data File : BF114184.D
Acq On : 12 May 2019 5:15
Operator : JU/SJ
Sample : K2765-18 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS006-0002-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.62	6.62	22.0	ng	1781950	1	6.85	1621310	20.0
Anthracene, 9-eth...	11.66	4.2	ng	531047	4	11.37	2515650	20.0
Phenanthrene, 2-m...	11.87	9.5	ng	1196410	4	11.37	2515650	20.0
Anthracene, 9-met...	11.90	10.6	ng	1333020	4	11.37	2515650	20.0
Anthracene, 2-met...	11.98	16.3	ng	2049630	4	11.37	2515650	20.0
Naphthalene, 2-ph...	12.16	9.8	ng	1237150	4	11.37	2515650	20.0
9,10-Anthracenedione	12.19	8.8	ng	1104110	4	11.37	2515650	20.0
Phenanthrene, 2,5...	12.42	12.1	ng	1525000	4	11.37	2515650	20.0
Phenanthrene, 3,6...	12.46	6.3	ng	786094	4	11.37	2515650	20.0
Cyclopenta(def)ph...	12.51	9.8	ng	1231040	4	11.37	2515650	20.0
4,4'-Bis(tetrahyd...	12.68	8.5	ng	1068750	4	11.37	2515650	20.0
Pyrene, 1-methyl-	13.03	4.6	ng	1502630	5	14.02	6577040	20.0
11H-Benzo[b]fluorene	13.24	4.4	ng	1461420	5	14.02	6577040	20.0
7H-Benz[de]anthra...	14.16	5.4	ng	1783460	5	14.02	6577040	20.0
5,8-Dimethoxy-1,4...	14.88	4.6	ng	518132	6	15.48	2264930	20.0
9,10-Dihydro-8-me...	14.95	4.7	ng	531592	6	15.48	2264930	20.0
Benzo[e]pyrene	15.16	6.0	ng	685529	6	15.48	2264930	20.0
unknown15.36	15.36	24.0	ng	2715190	6	15.48	2264930	20.0