LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

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:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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	5.398	560	563	577	rBV	854807	903897	42.19%	2.433%
2	6.428	734	738	752	rBV	866066	941357	43.94%	2.534%
3	6.557	756	760	766	rBV	1183169	973792	45.45%	2.621%
4	6.786	796	799	807	rBV	631226	508768	23.75%	1.369%
5	6.945	822	826	839	rVB	822764	788328	36.79%	2.122%
6	7.357	892	896	911	rBV	495417	570422	26.62%	1.535%
7	8.075	1015	1018	1025	rBV	697187	667816	31.17%	1.797%
8	8.886	1151	1156	1162	rVV	109930	100251	4.68%	0.270%
9	9.145	1197	1200	1209	rVV	1264224	1106948	51.67%	2.979%
10	9.416	1242	1246	1250	rBV	90229	121538	5.67%	0.327%
11	9.486	1255	1258	1261	rVV	183282	193171	9.02%	0.520%
12	9.516	1261	1263	1266	rVV2	81753	101357	4.73%	0.273%
13	9.545	1266	1268	1275	rVV2	117476	151629	7.08%	0.408%
14	9.604	1275	1278	1287	rVB	116447	137977	6.44%	0.371%
15	9.692	1289	1293	1297	rVV2	265776	247146	11.54%	0.665%
16	9.827	1313	1316	1319	rVV2	747746	635591	29.67%	1.711%
17	9.863	1319	1322	1325	rVB	125312	107823	5.03%	0.290%
18	10.033	1347	1351	1354	rVV2	132023	154084	7.19%	0.415%
19	10.069	1354	1357	1361	rVB	165253	135960	6.35%	0.366%
20	10.145	1366	1370	1373	rBV2	174527	187673	8.76%	0.505%
21	10.233	1381	1385	1387	rBV2	85129	138820	6.48%	0.374%
22	10.380	1406	1410	1415	rVB3	183376	245522	11.46%	0.661%
23	10.445	1415	1421	1422	rBV2	75499	99502	4.64%	0.268%
24	10.622	1444	1451	1455	rBV2	648595	643142	30.02%	1.731%
25	10.739	1469	1471	1477	rVB2	116989	142071	6.63%	0.382%
26	10.927	1499	1503	1506	rBV3	168235	217798	10.17%	0.586%
27	10.957	1506	1508	1511	rVV	145277	132742	6.20%	0.357%
28	11.010	1514	1517	1520	rVV	148866	124006	5.79%	0.334%
29	11.057	1520	1525	1527	rVV2	80473	136409	6.37%	0.367%
30	11.080	1527	1529	1534	rVV3	84061	111240	5.19%	0.299%
31	11.127	1534	1537	1541	rVV2	87629	114988	5.37%	0.310%
32	11.174	1541	1545	1547	rVV3	97562	119232	5.57%	0.321%
33	11.216	1547	1552	1556	rVB	124504	161310	7.53%	0.434%
34	11.321	1566	1570	1572	rBV	718882	629057	29.36%	1.693%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

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:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.345	1572	1574	1577	rVV	1082342	838056	39.12%	2.256%
36	11.398	1580	1583	1585	rVV	419239	345793	16.14%	0.931%
37	11.433	1585	1589	1591	rVV2	130070	188682	8.81%	0.508%
38	11.474	1594	1596	1602	rVV4	76778	146416	6.83%	0.394%
39	11.557	1606	1610	1614	rBV3	96874	166465	7.77%	0.448%
40	11.651	1622	1626	1631	rVB2	170061	197772	9.23%	0.532%
41	11.733	1638	1640	1644	rVB	94143	101716	4.75%	0.274%
42	11.821	1652	1655	1658	rVV	501212	495655	23.13%	1.334%
43	11.851	1658	1660	1664	rVB	648779	581795	27.16%	1.566%
44	11.898	1664	1668	1671	rBV	266633	294672	13.75%	0.793%
45	11.933	1671	1674	1677	rVV2	787821	917970	42.85%	2.471%
46	11.957	1677	1678	1684	rVB	517832	372342	17.38%	1.002%
47	12.116	1698	1705	1710	rBV4	239367	362436	16.92%	0.976%
48	12.151	1710	1711	1716	rVB3	141698	129005	6.02%	0.347%
49	12.268	1729	1731	1733	rVV	158458	121450	5.67%	0.327%
50	12.298	1733	1736	1739	rVV	226121	209475	9.78%	0.564%
51	12.327	1739	1741	1743	rVB2	183157	141646	6.61%	0.381%
52	12.374	1743	1749	1752	rBV	684100	759185	35.43%	2.043%
53	12.416	1752	1756	1758	rVV3	364466	523641	24.44%	1.409%
54	12.433	1758	1759	1761	rVB	238594	122049	5.70%	0.329%
55	12.468	1761	1765	1769	rBV3	301531	466648	21.78%	1.256%
56	12.545	1773	1778	1781	rBV	1417859	1402351	65.45%	3.775%
57	12.580	1781	1784	1786	rVV2	125808	106403	4.97%	0.286%
58	12.604	1786	1788	1791	rVB2	171441	137465	6.42%	0.370%
59	12.692	1800	1803	1805	rBV3	130940	128871	6.02%	0.347%
60	12.716	1805	1807	1810	rVB2	111907	106383	4.97%	0.286%
61	12.774	1810	1817	1822	rBV	1872424	2142491	100.00%	5.767%
62	12.821	1822	1825	1829	rVB2	242012	270013	12.60%	0.727%
63	12.910	1837	1840	1842	rVV	952266	837884	39.11%	2.255%
64	12.927	1842	1843	1847	rVB2	188837	162433	7.58%	0.437%
65	12.986	1849	1853	1860	rBV3	329901	589535	27.52%	1.587%
66	13.045	1860	1863	1865	rBV	137199	120487	5.62%	0.324%
67	13.080	1865	1869	1871	rBV3	290013	411556	19.21%	1.108%
68	13.104	1871	1873	1875	rVB	509767	407520	19.02%	1.097%
69	13.168	1882	1884	1887	rVB	289546	255691	11.93%	0.688%
70	13.210	1887	1891	1895	rBV	559906	510927	23.85%	1.375%
71	13.304	1904	1907	1910	rBV	445295	386008	18.02%	1.039%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

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:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.339	1910	1913	1915	rVB	398531	380282	17.75%	1.024%
73	13.515	1940	1943	1945	rVV2	115257	139373	6.51%	0.375%
74	13.598	1954	1957	1960	rVV2	157443	263326	12.29%	0.709%
75	13.633	1960	1963	1967	rVV2	295646	386478	18.04%	1.040%
76	13.692	1970	1973	1976	rVV	155734	174827	8.16%	0.471%
77	13.745	1977	1982	1985	rVV3	289830	518160	24.18%	1.395%
78	13.768	1985	1986	1989	rVV	235138	202987	9.47%	0.546%
79	13.798	1989	1991	1994	rVV	136253	208492	9.73%	0.561%
80	13.827	1994	1996	1998	rVV	186737	209201	9.76%	0.563%
81	13.851	1998	2000	2003	rVV	219553	252147	11.77%	0.679%
82	14.004	2022	2026	2030	rBV2	968560	1546967	72.20%	4.164%
83	14.045	2030	2033	2040	rVB	883484	944777	44.10%	2.543%
84	14.104	2040	2043	2045	rBV	108885	101048	4.72%	0.272%
85	14.174	2053	2055	2061	rVB5	122386	212920	9.94%	0.573%
86	14.362	2084	2087	2090	rBV3	90787	107599	5.02%	0.290%
87	14.392	2090	2092	2094	rBV	137890	123874	5.78%	0.333%
88	14.439	2094	2100	2103	rVV	415364	542734	25.33%	1.461%
89	14.474	2103	2106	2110	rVB	262049	226532	10.57%	0.610%
90	14.515	2110	2113	2116	rBV2	169812	226532	10.57%	0.610%
91	14.574	2120	2123	2126	rBV	194967	197676	9.23%	0.532%
92	14.857	2169	2171	2174	rBV2	101375	135398	6.32%	0.364%
93	14.974	2189	2191	2195	rVB2	103592	104912	4.90%	0.282%
94	15.139	2215	2219	2226	rVB	425020	780604	36.43%	2.101%
95	15.245	2235	2237	2242	rVB	103652	104441	4.87%	0.281%
96	15.445	2267	2271	2277	rVB	312938	383819	17.91%	1.033%
97	15.509	2278	2282	2287	rVB	449105	568772	26.55%	1.531%
98	15.574	2289	2293	2296	rBV	328618	423459	19.76%	1.140%
99	17.056	2541	2545	2551	rVB	145730	239398	11.17%	0.644%
100	17.503	2617	2621	2628	rVB	121793	235691	11.00%	0.634%

Sum of corrected areas: 37152680

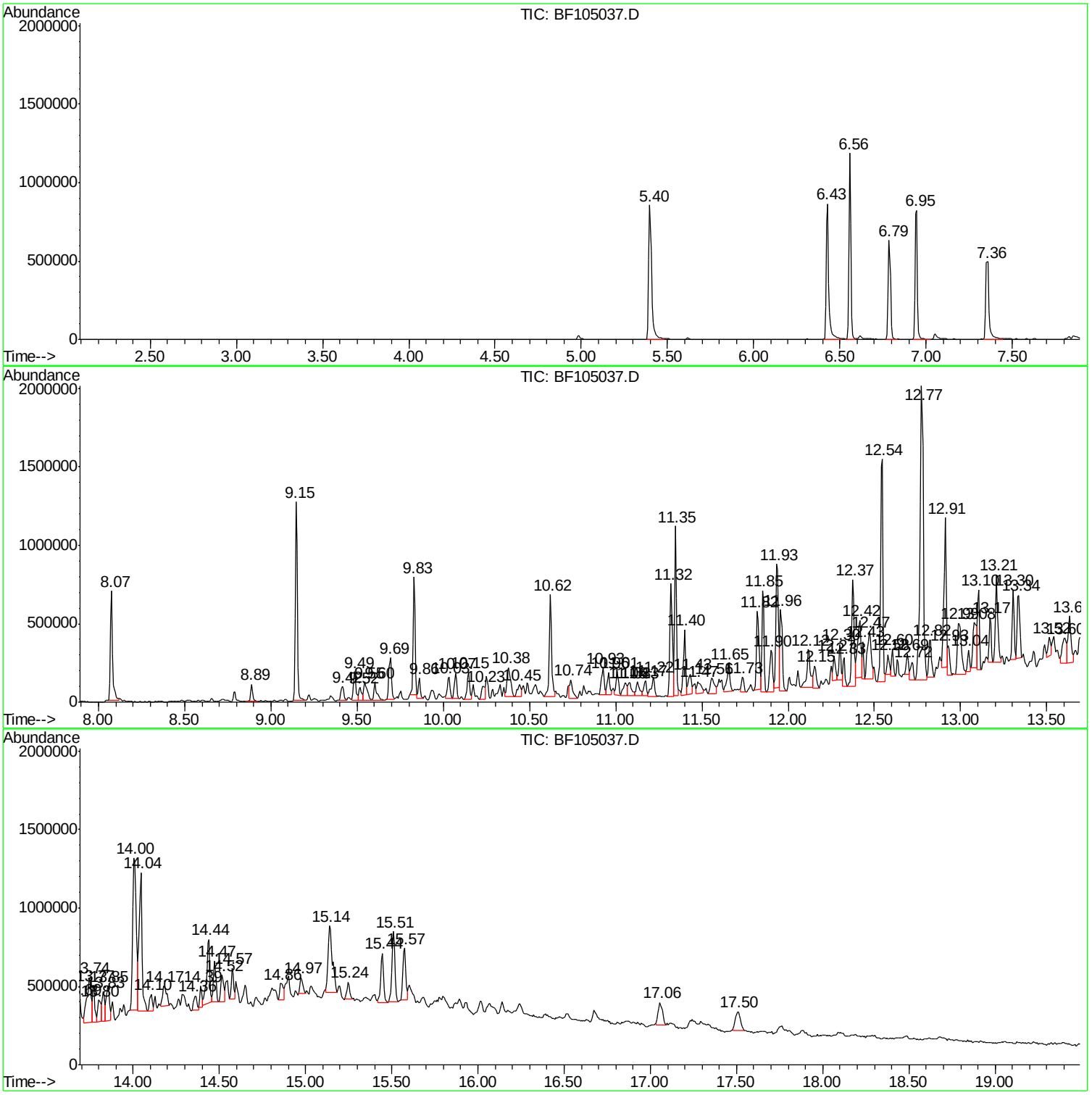
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

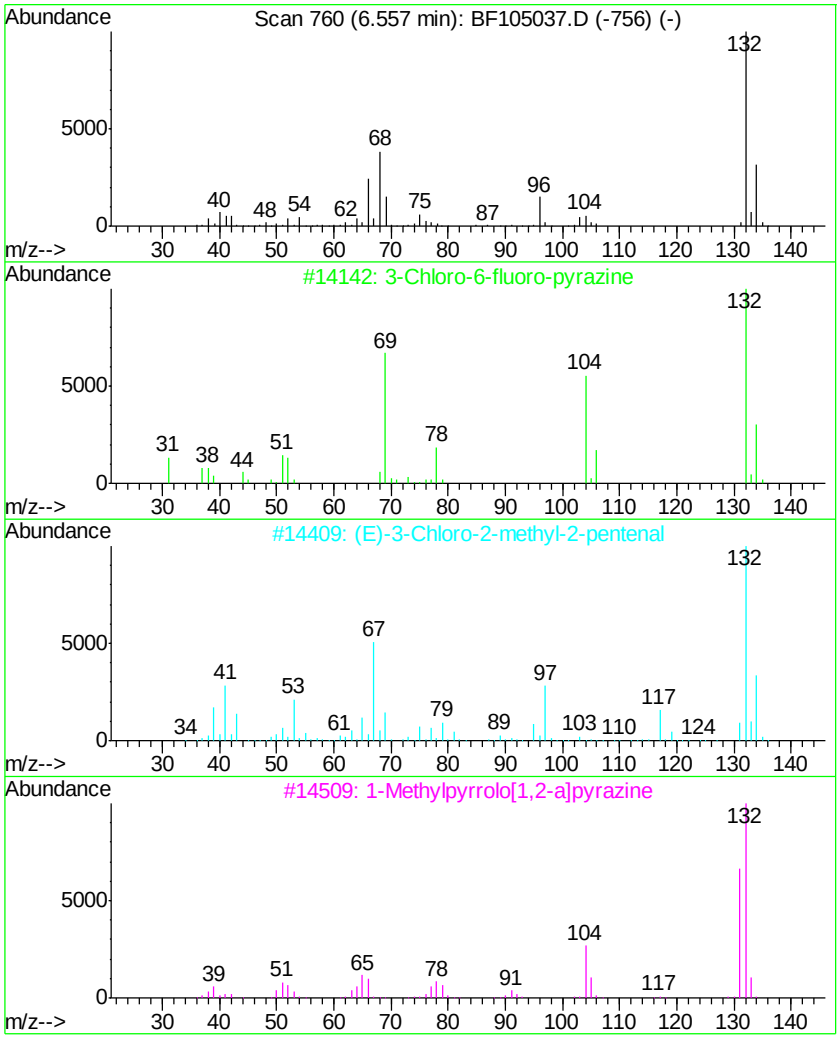
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

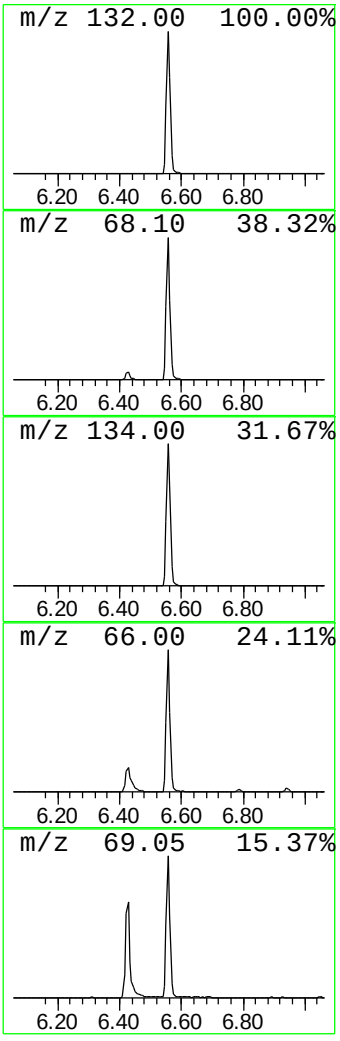
****

Peak Number 1 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	38.28 ng	973792	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

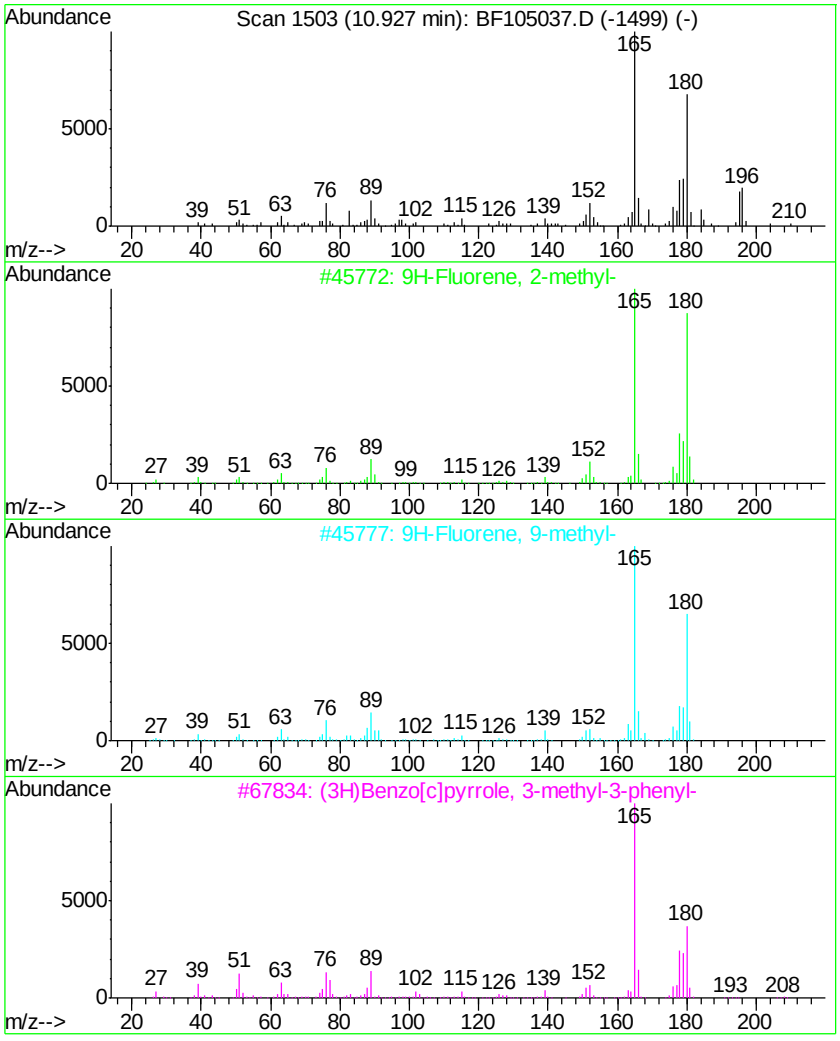
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

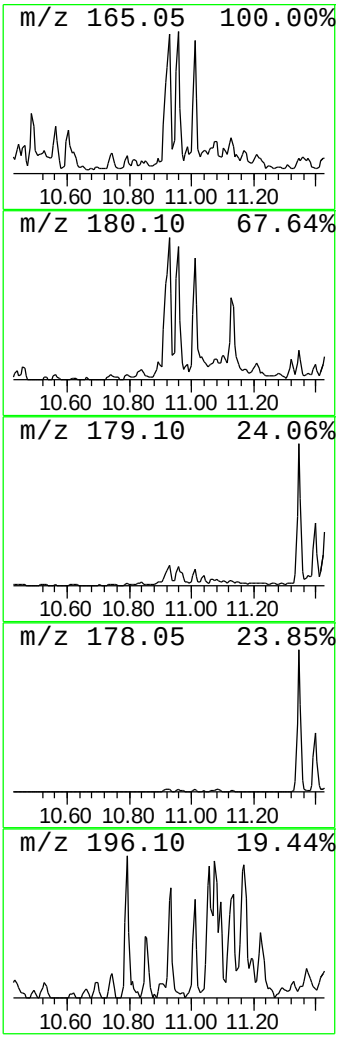
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	6.92 ng	217798	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	64
3	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	64
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	64
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	58





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

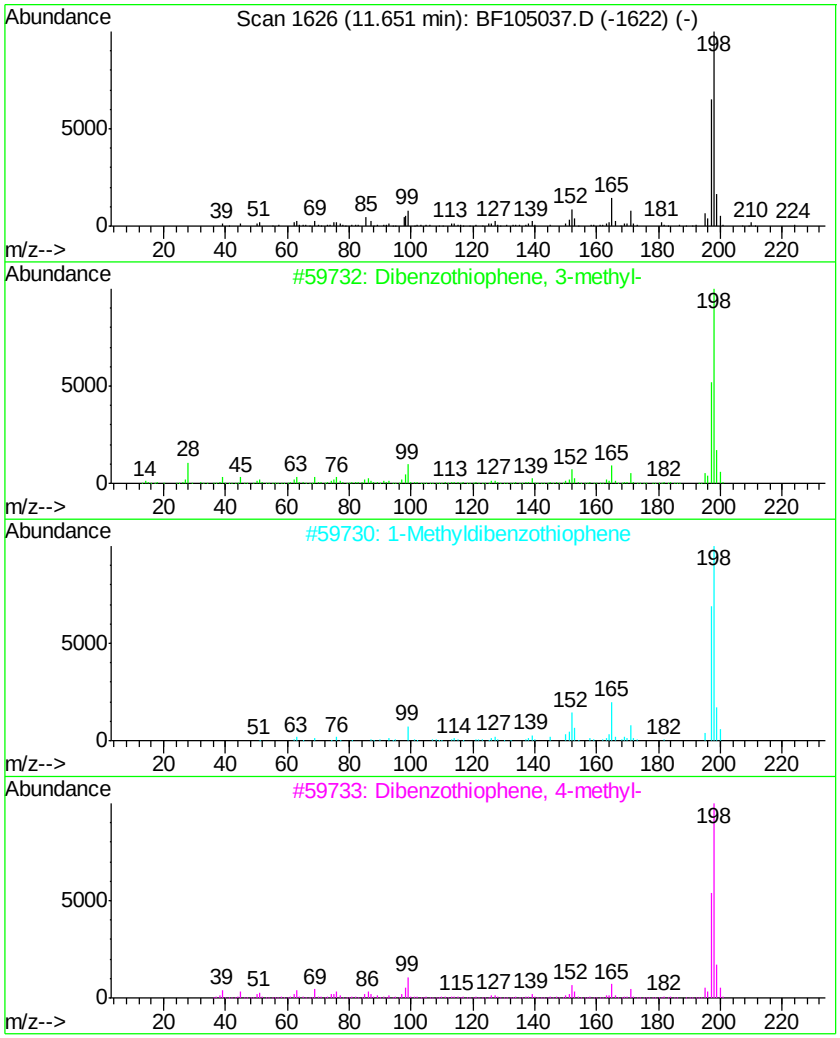
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

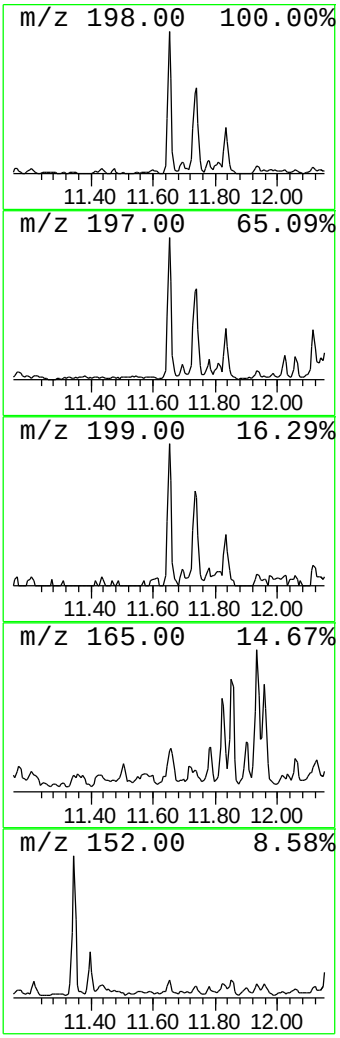
****

Peak Number 4 Dibenzothiophene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.65	6.29 ng	197772	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	97
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	95
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	95
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	93
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

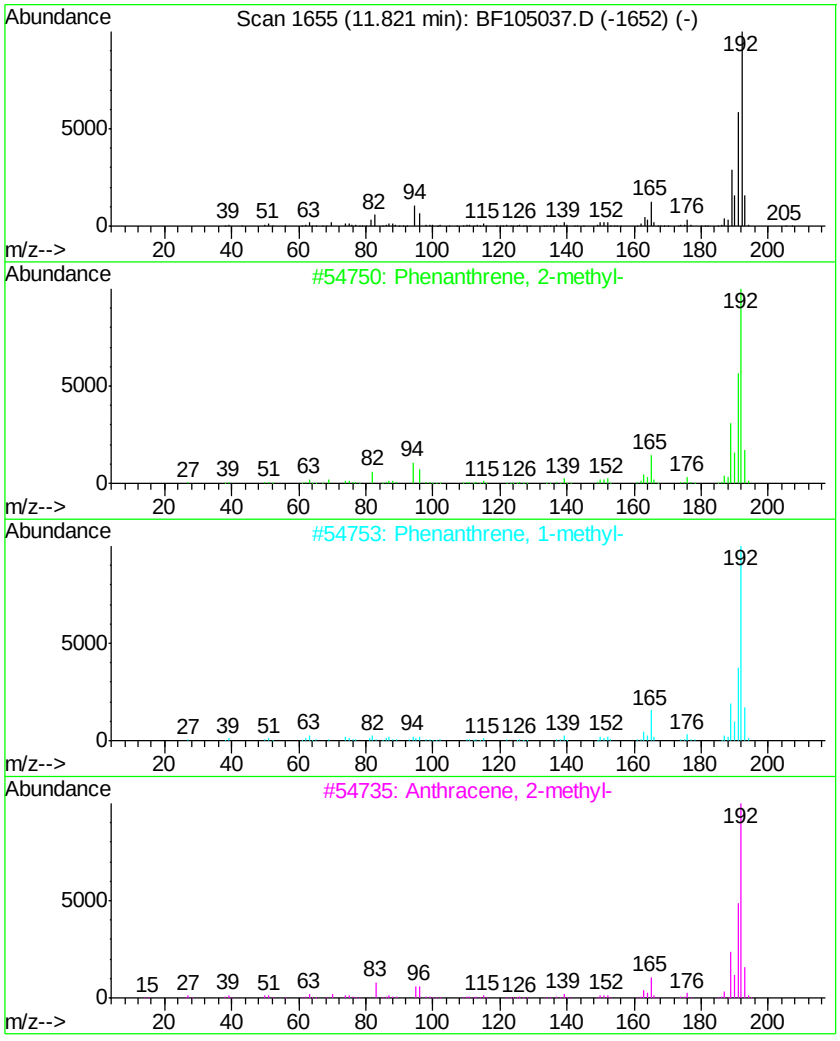
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

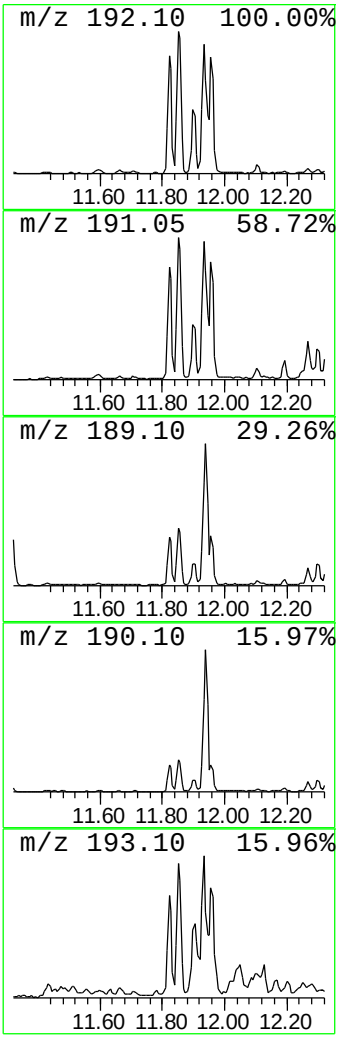
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	15.76 ng	495655	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

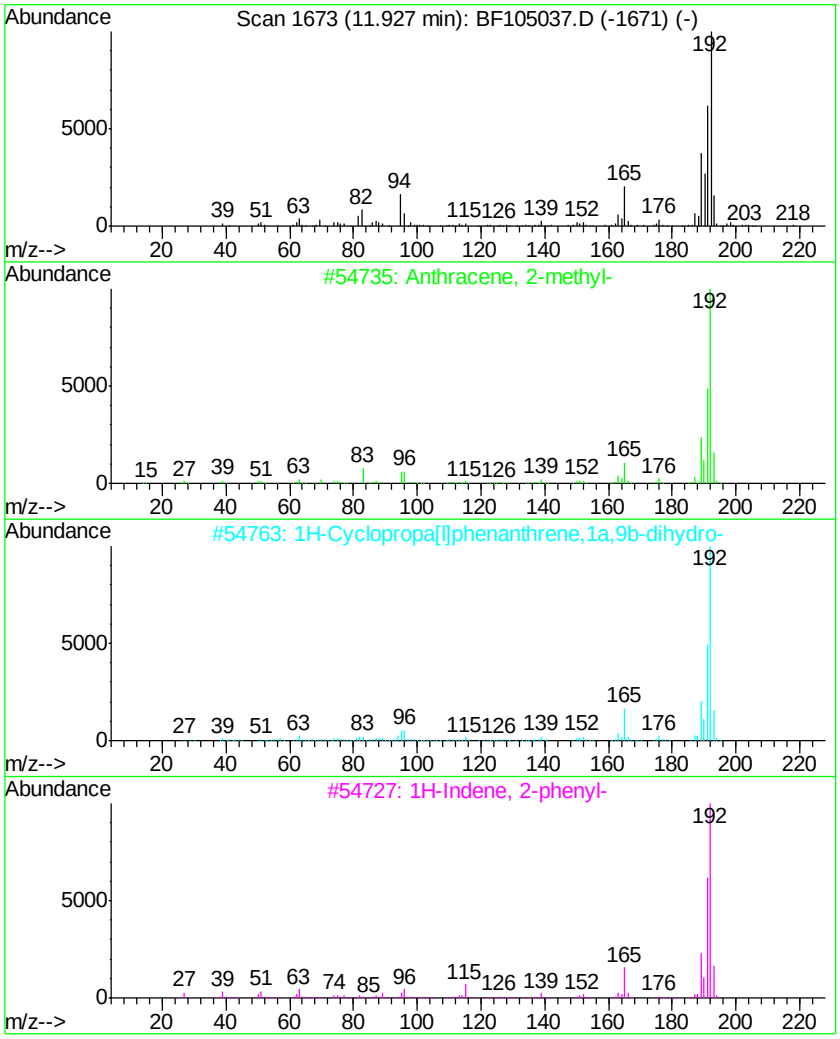
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

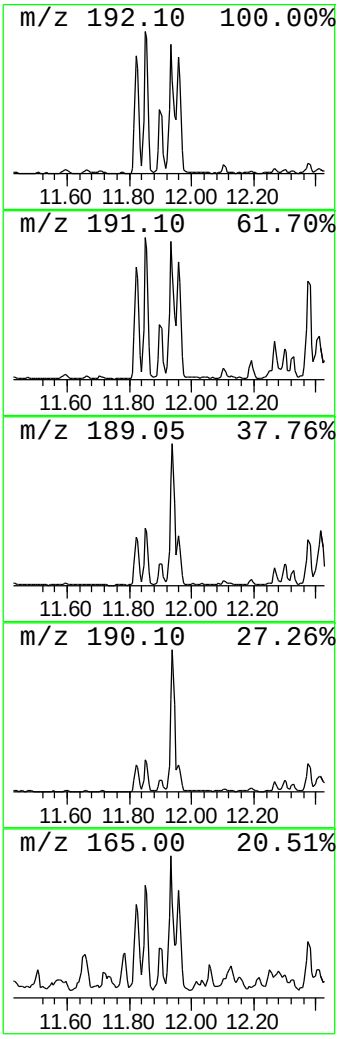
****

Peak Number 8 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	29.19 ng	917970	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	60
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	60
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	60
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	58
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	55





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

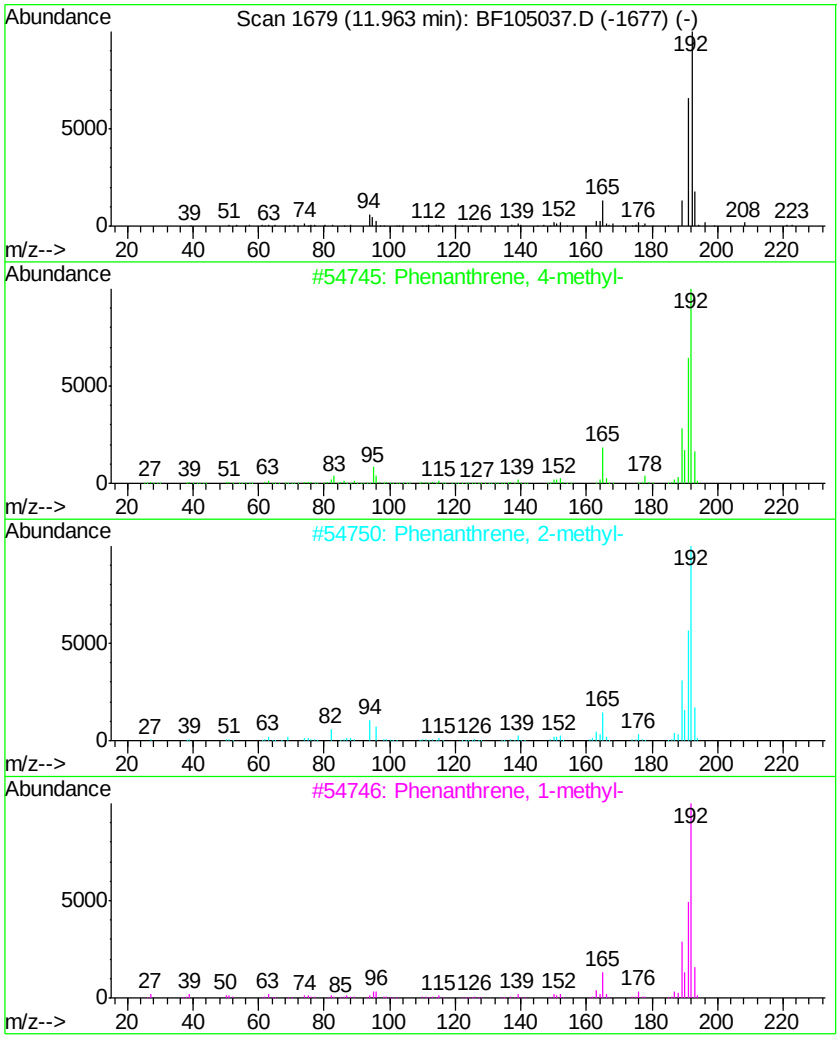
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

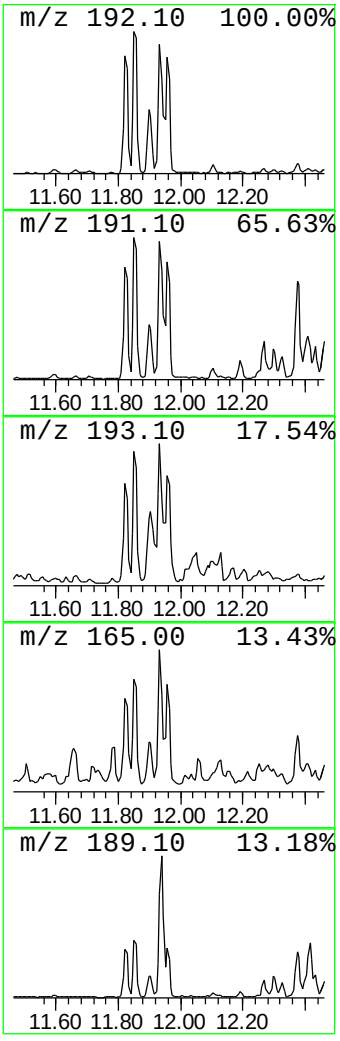
****

Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	11.84 ng	372342	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	81
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

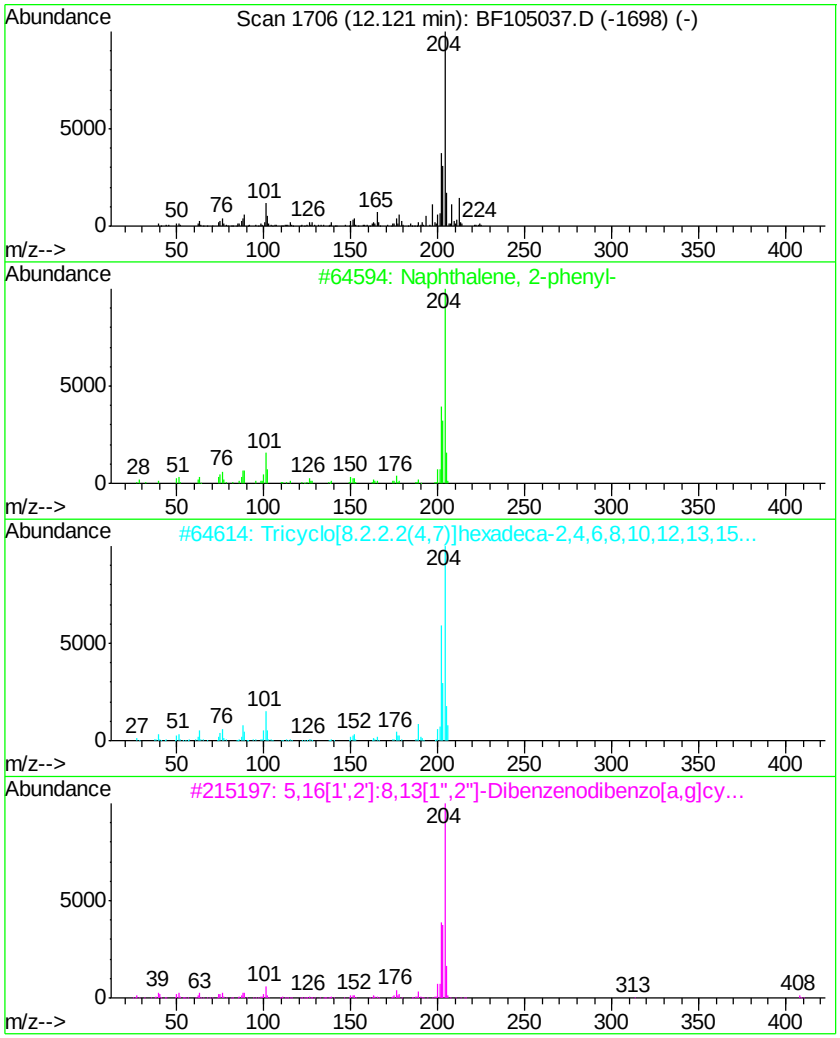
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

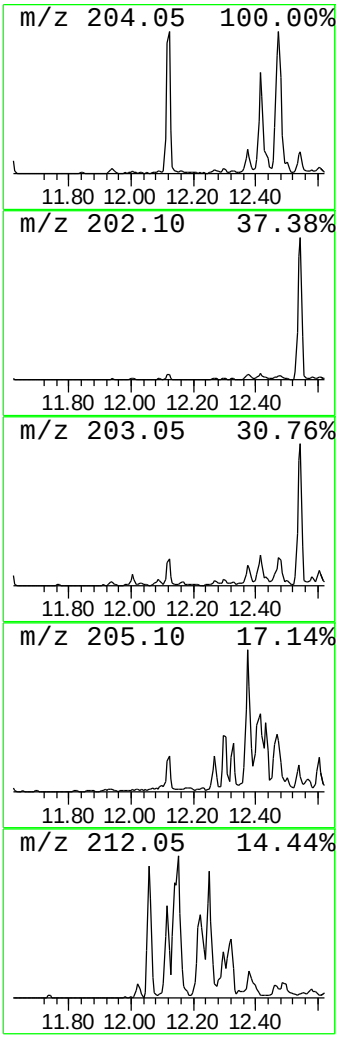
****

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	11.52 ng	362436	Phenanthrene-d10	11.32

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	60
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	52
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	46
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	45





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

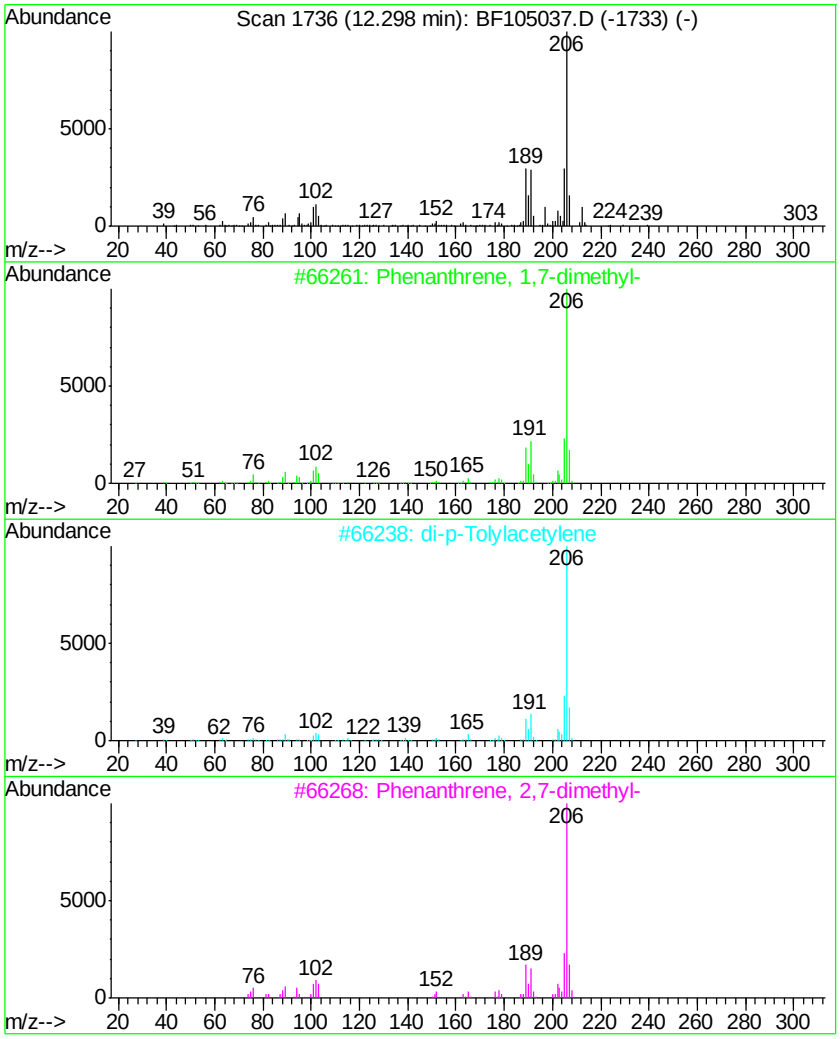
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

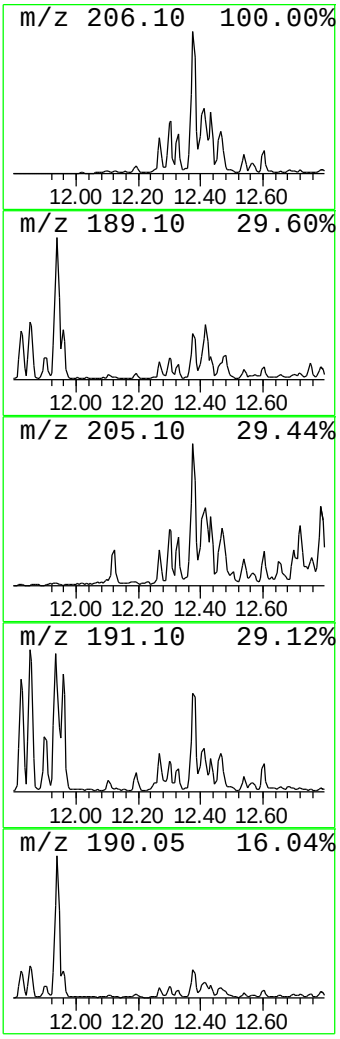
****

Peak Number 11 Phenanthrene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	6.66 ng	209475	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	98
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	70





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

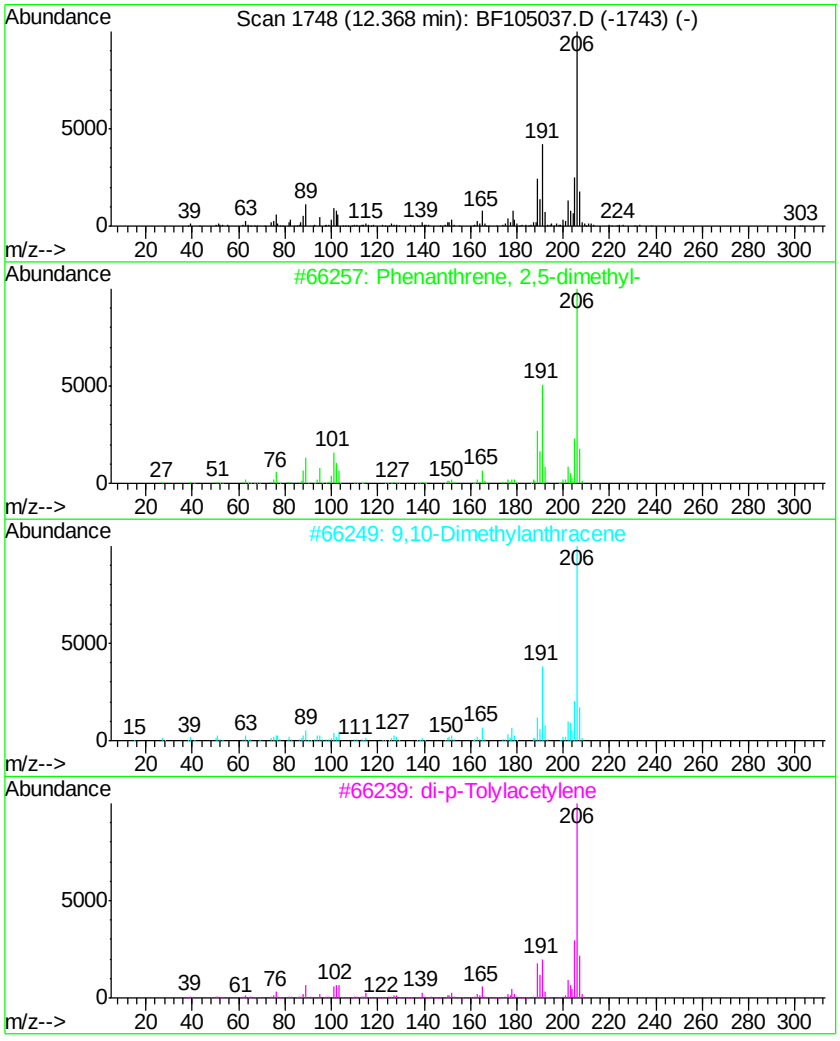
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

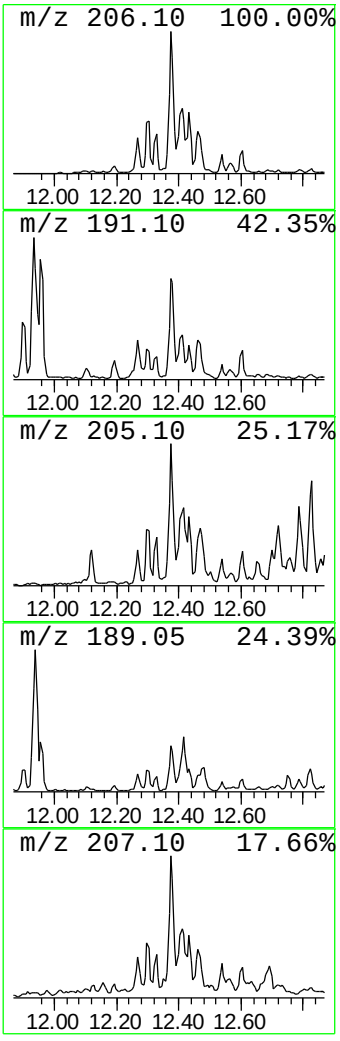
****

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	24.14 ng	759185	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

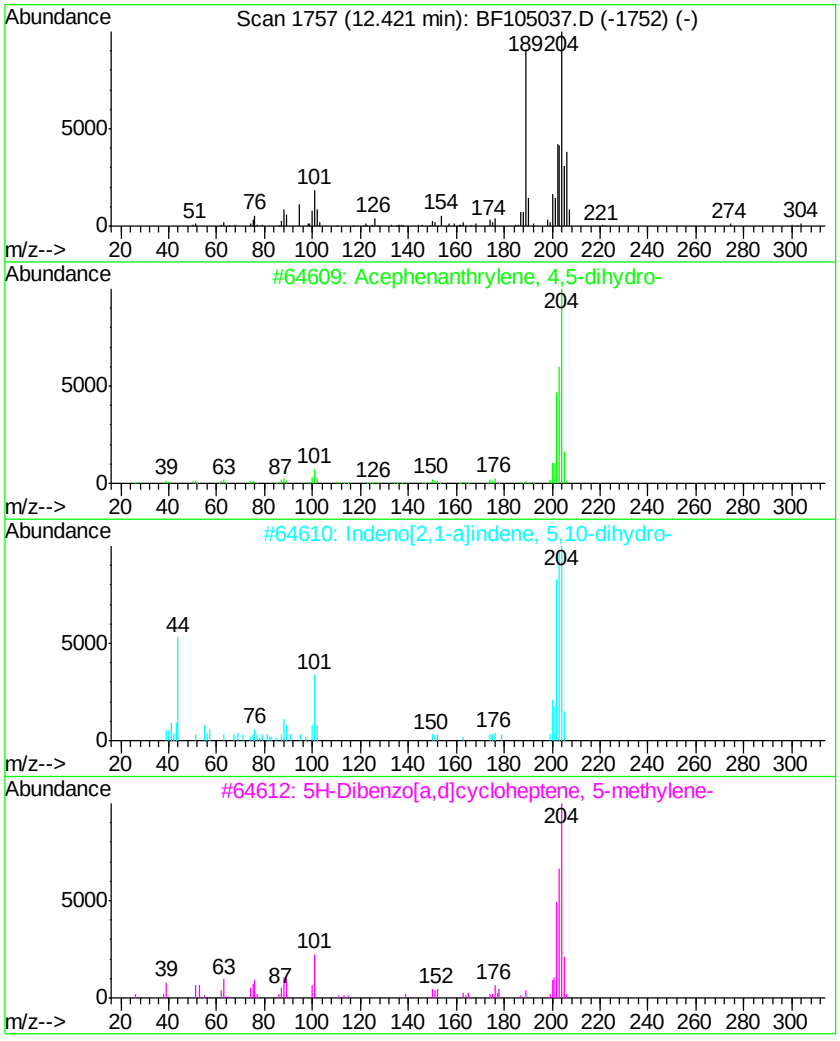
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

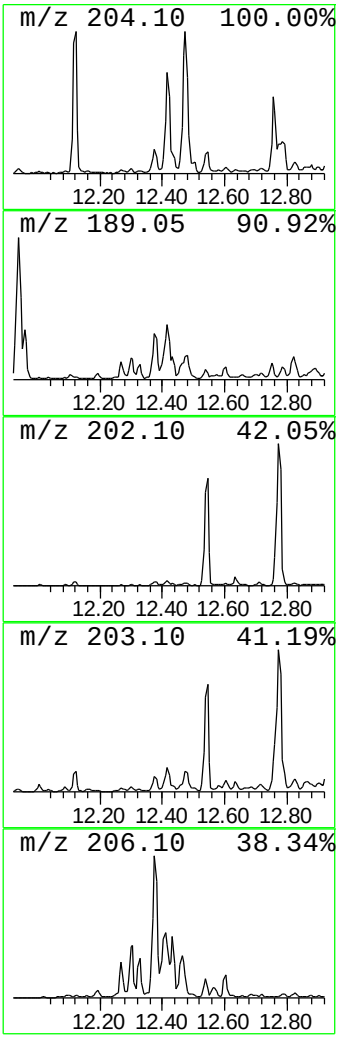
****

Peak Number 13 Acephenanthrylene, 4,5-dihy... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	16.65 ng	523641	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	72
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	42
3	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
5	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	30





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

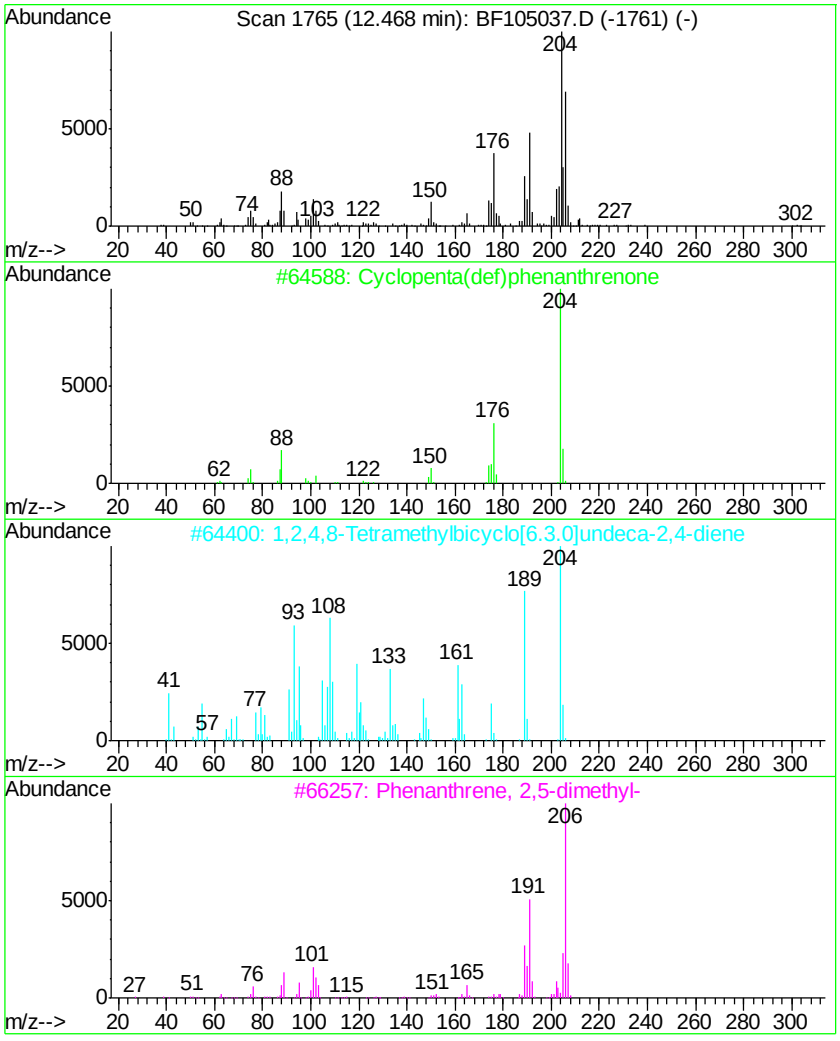
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

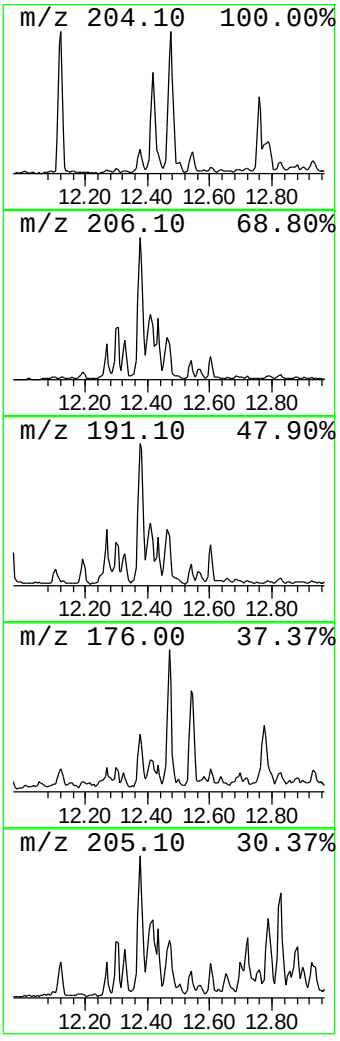
****

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	14.84 ng	466648	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	46
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

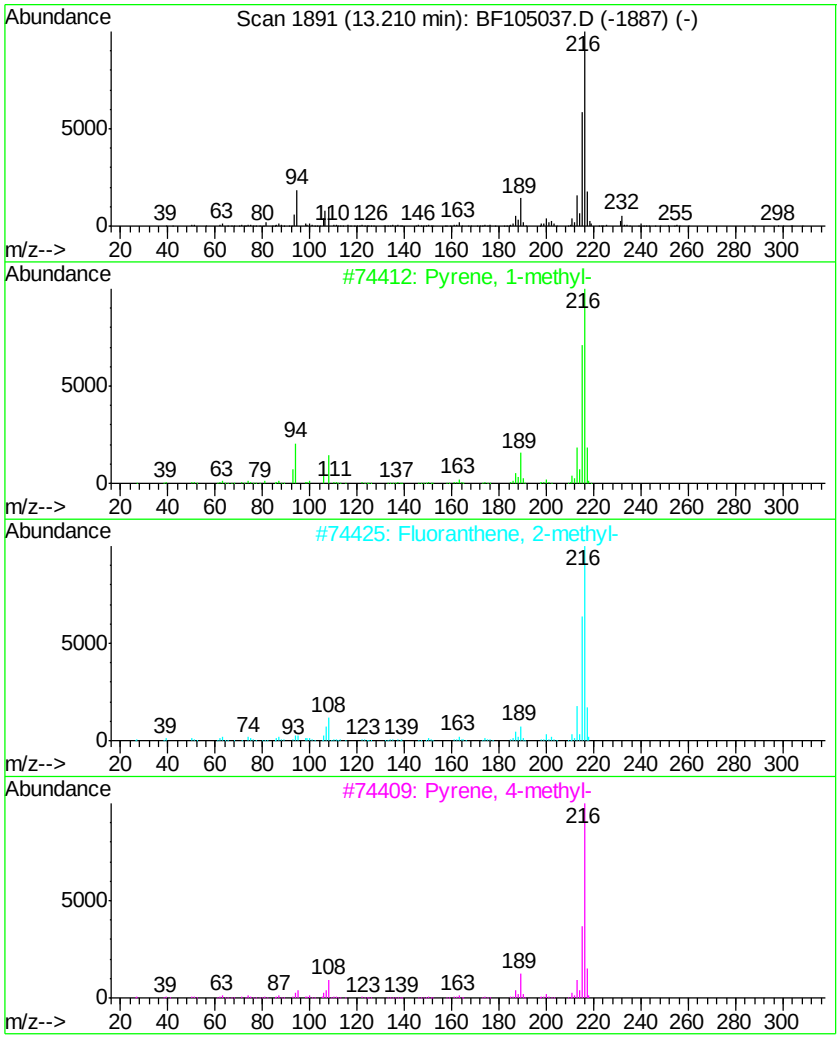
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

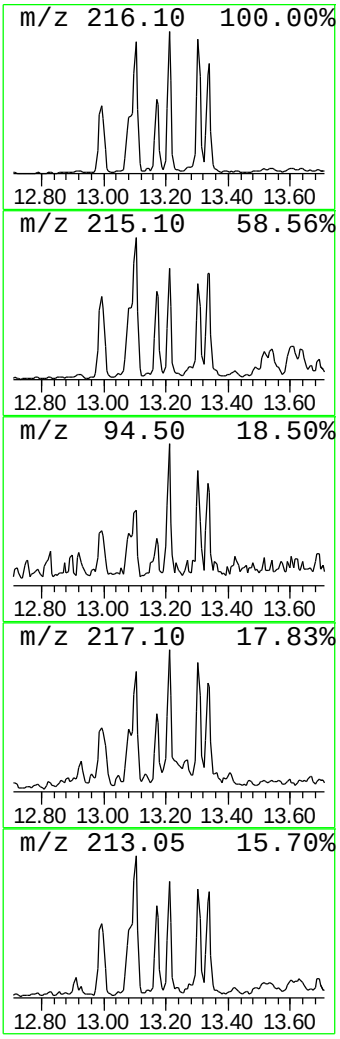
****

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	6.61 ng	510927	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

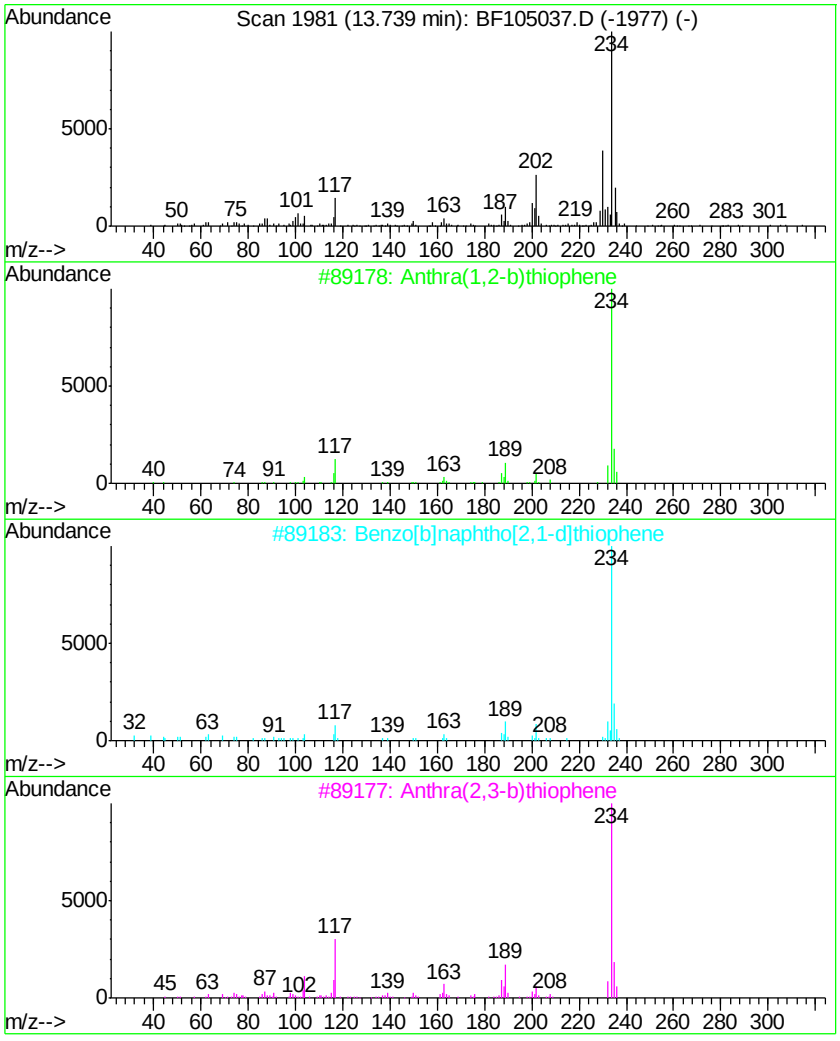
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

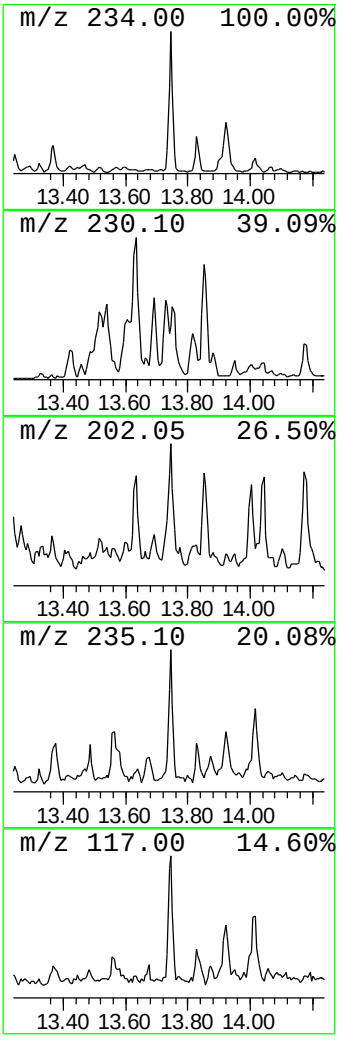
****

Peak Number 17 Anthra(1,2-b)thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.74	6.70 ng	518160	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	86
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
3	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	70
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	62
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	62





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

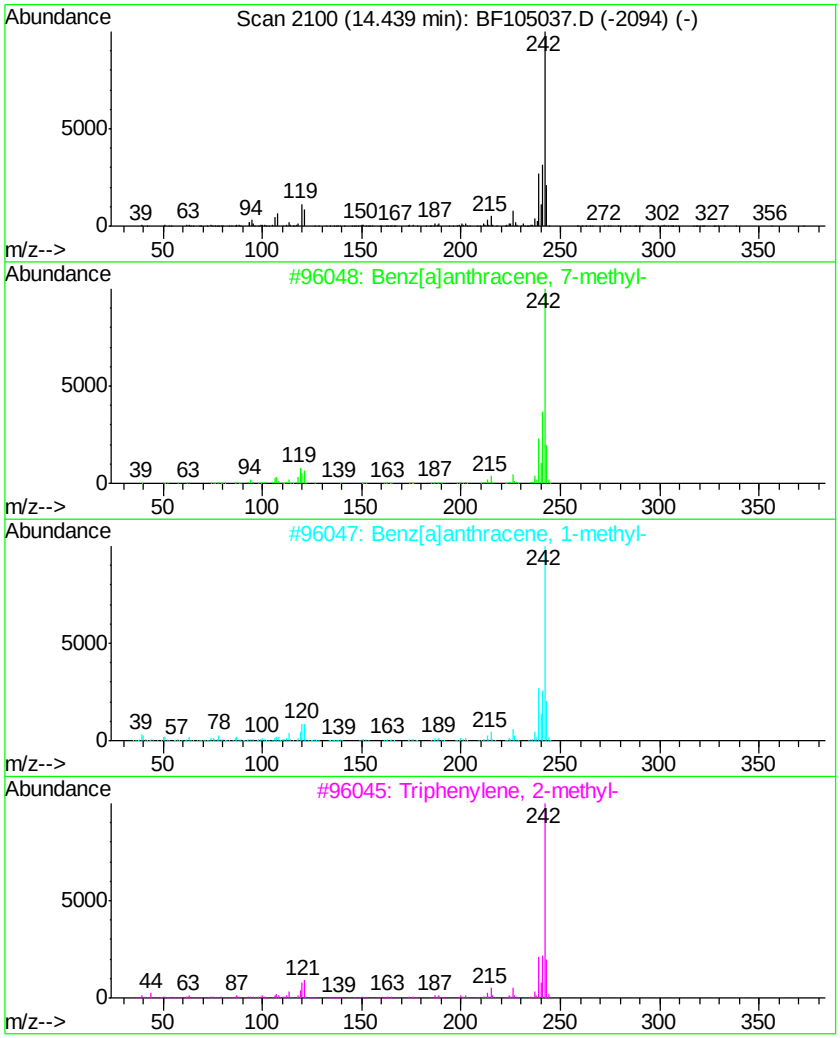
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

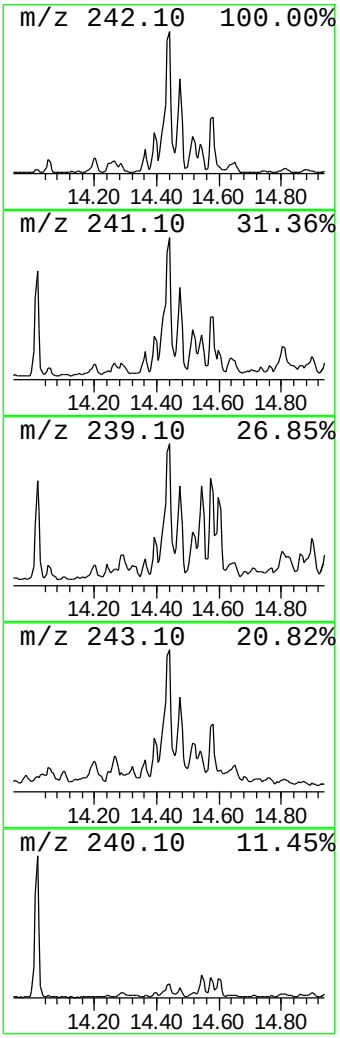
****

Peak Number 18 Benz[a]anthracene, 7-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.44	7.02 ng	542734	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	94
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	92
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	91
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

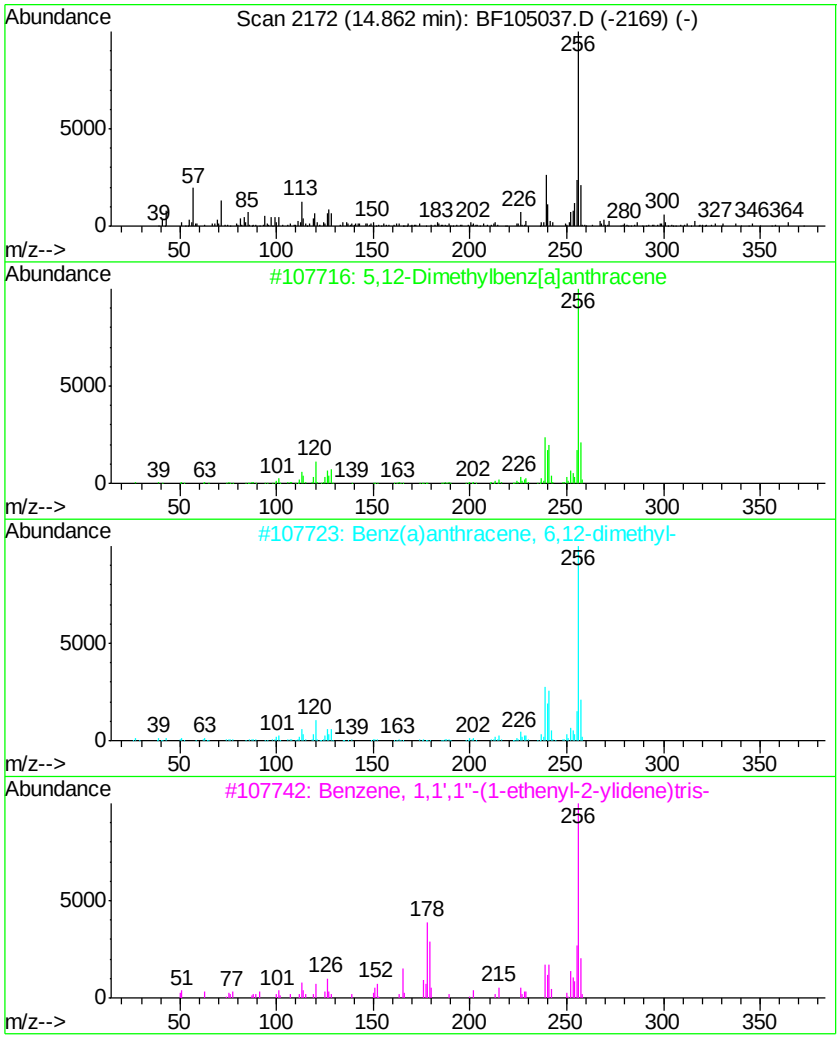
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

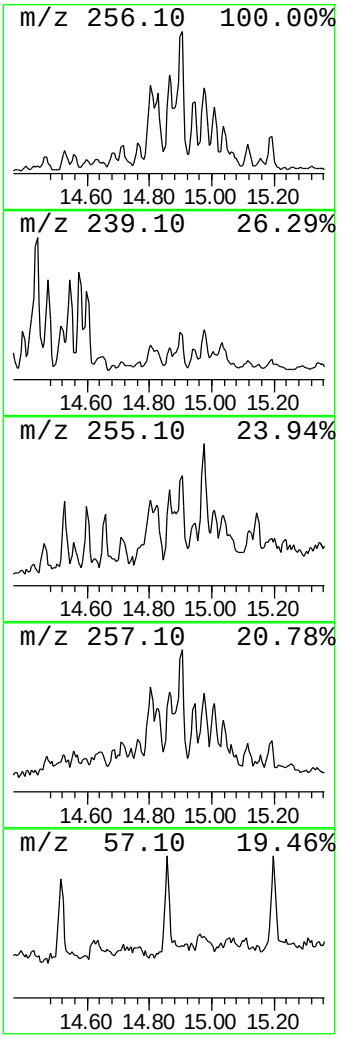
****

Peak Number 19 5,12-Dimethylbenz[a]anthracene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	6.39 ng	135398	Perylene-d12	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	90
2	Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	90
3	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	78
4	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	58
5	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	55





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

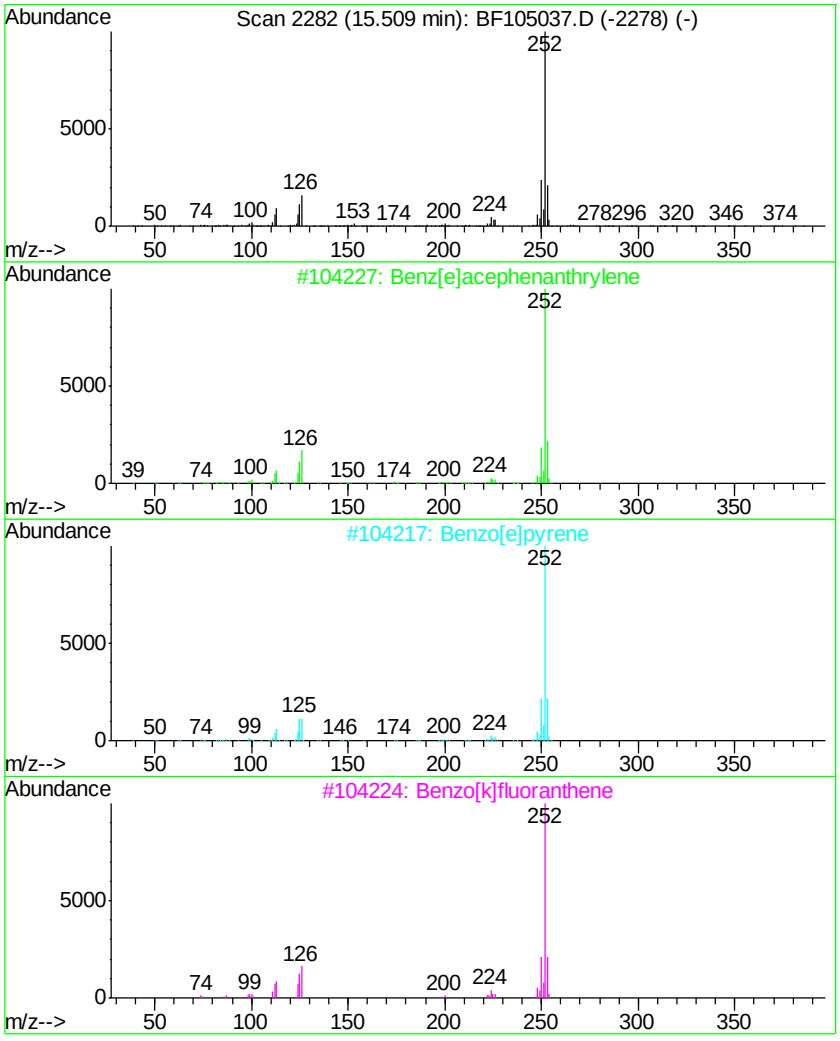
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

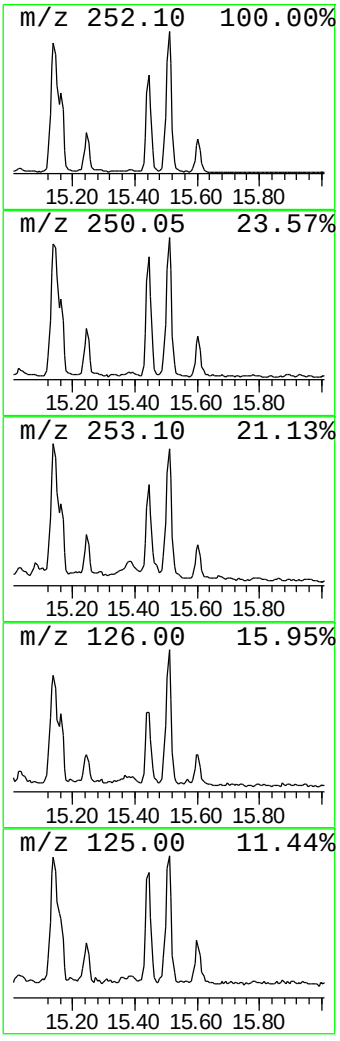
****

Peak Number 20 Benz[e]acephenanthrylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.51	26.86 ng	568772	Perylene-d12	15.57

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050218\
Data File : BF105037.D
Acq On : 2 May 2018 18:02
Operator : JU/SJ
Sample : J2157-17 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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
unknown6.56	6.56	38.3	ng	973792	1	6.79	508768	20.0
9H-Fluorene, 2-me...	10.93	6.9	ng	217798	4	11.32	629057	20.0
Dibenzothiophene,...	11.65	6.3	ng	197772	4	11.32	629057	20.0
Phenanthrene, 2-m...	11.82	15.8	ng	495655	4	11.32	629057	20.0
Anthracene, 2-met...	11.93	29.2	ng	917970	4	11.32	629057	20.0
Phenanthrene, 4-m...	11.96	11.8	ng	372342	4	11.32	629057	20.0
Naphthalene, 2-ph...	12.12	11.5	ng	362436	4	11.32	629057	20.0
Phenanthrene, 1,7...	12.30	6.7	ng	209475	4	11.32	629057	20.0
Phenanthrene, 2,5...	12.37	24.1	ng	759185	4	11.32	629057	20.0
Acephenanthrylene...	12.42	16.6	ng	523641	4	11.32	629057	20.0
Cyclopenta(def)ph...	12.47	14.8	ng	466648	4	11.32	629057	20.0
Pyrene, 1-methyl-	13.21	6.6	ng	510927	5	14.02	1546970	20.0
Anthra(1,2-b)thio...	13.74	6.7	ng	518160	5	14.02	1546970	20.0
Benz[a]anthracene...	14.44	7.0	ng	542734	5	14.02	1546970	20.0
5,12-Dimethylbenz...	14.86	6.4	ng	135398	6	15.57	423459	20.0
Benz[e]acephenant...	15.51	26.9	ng	568772	6	15.57	423459	20.0