LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

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-BF061219.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	5.251	534	538	549	rBV	3219724	3040386	35.64%	2.918%
2	6.286	709	714	729	rBV	3334952	3233013	37.89%	3.103%
3	6.410	731	735	739	rBV	3463326	3348043	39.24%	3.214%
4	6.645	771	775	778	rBV	1764073	1438927	16.87%	1.381%
5	6.798	797	801	804	rBV	3042751	2678465	31.39%	2.571%
6	7.204	866	870	873	rBV	2217351	1997698	23.42%	1.917%
7	7.928	988	993	995	rBV	2074744	1907516	22.36%	1.831%
8	8.639	1110	1114	1117	rBV	96892	92460	1.08%	0.089%
9	8.998	1171	1175	1186	rBV	3983564	3909145	45.82%	3.752%
10	9.392	1239	1242	1248	rBV	398077	391904	4.59%	0.376%
11	9.533	1262	1266	1273	rBV	315238	305687	3.58%	0.293%
12	9.674	1285	1290	1293	rBV	2103284	2092707	24.53%	2.009%
13	9.704	1293	1295	1299	rVB	152142	124892	1.46%	0.120%
14	9.874	1321	1324	1328	rVB	107642	93392	1.09%	0.090%
15	10.216	1379	1382	1388	rBV	188937	176761	2.07%	0.170%
16	10.451	1419	1422	1433	rBV	2023338	1951697	22.88%	1.873%
17	10.574	1440	1443	1447	rBV3	197117	218723	2.56%	0.210%
18	11.145	1536	1540	1542	rBV	2229359	1902821	22.30%	1.826%
19	11.169	1542	1544	1547	rVV	941922	731336	8.57%	0.702%
20	11.221	1547	1553	1556	rVV	833937	810948	9.51%	0.778%
21	11.257	1556	1559	1563	rVV3	99981	106177	1.24%	0.102%
22	11.374	1576	1579	1582	rVB	299303	228723	2.68%	0.220%
23	11.645	1621	1625	1627	rBV2	104246	102698	1.20%	0.099%
24	11.674	1627	1630	1632	rBV2	151994	148738	1.74%	0.143%
25	11.721	1635	1638	1641	rVB2	204730	183777	2.15%	0.176%
26	11.757	1641	1644	1647	rBV	1095446	970596	11.38%	0.932%
27	11.963	1677	1679	1683	rVB2	178619	163686	1.92%	0.157%
28	12.145	1708	1710	1713	rVB	126276	97674	1.14%	0.094%
29	12.192	1714	1718	1722	rBV2	158131	227410	2.67%	0.218%
30	12.233	1722	1725	1727	rVV	211385	207002	2.43%	0.199%
31	12.280	1730	1733	1737	rVV	861901	932239	10.93%	0.895%
32	12.363	1741	1747	1750	rVV	7509121	8333582	97.68%	7.999%
33	12.410	1750	1755	1759	rVV3	184840	273015	3.20%	0.262%
34	12.498	1764	1770	1775	rBV2	485517	633749	7.43%	0.608%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

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-BF061219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.586	1779	1785	1788	rBV2	6562274	8531568	100.00%	8.189%
36	12.627	1790	1792	1798	rVB2	291353	387400	4.54%	0.372%
37	12.698	1801	1804	1806	rBV	710498	621237	7.28%	0.596%
38	12.727	1806	1809	1815	rVB	3453737	3190487	37.40%	3.062%
39	12.798	1815	1821	1825	rBV2	820063	1291585	15.14%	1.240%
40	12.886	1832	1836	1837	rBV2	741117	820997	9.62%	0.788%
41	12.904	1837	1839	1843	rVB	1339205	1354254	15.87%	1.300%
42	12.974	1847	1851	1854	rBV	1349629	1191471	13.97%	1.144%
43	13.010	1854	1857	1859	rVV	1280265	1169149	13.70%	1.122%
44	13.033	1859	1861	1865	rVV	540206	496381	5.82%	0.476%
45	13.068	1865	1867	1869	rVB	175259	137026	1.61%	0.132%
46	13.098	1869	1872	1875	rBV	592505	535402	6.28%	0.514%
47	13.133	1875	1878	1882	rVV2	547840	633963	7.43%	0.608%
48	13.280	1900	1903	1906	rBV4	204962	298781	3.50%	0.287%
49	13.310	1906	1908	1910	rVV	255545	297363	3.49%	0.285%
50	13.333	1910	1912	1914	rVV	309933	276158	3.24%	0.265%
51	13.357	1914	1916	1918	rVV3	144267	132311	1.55%	0.127%
52	13.386	1918	1921	1923	rVV3	262382	345788	4.05%	0.332%
53	13.410	1923	1925	1930	rVV	493588	574018	6.73%	0.551%
54	13.474	1934	1936	1939	rVB	126856	94475	1.11%	0.091%
55	13.521	1939	1944	1946	rBV2	1073448	1176589	13.79%	1.129%
56	13.551	1946	1949	1950	rVV	749577	712019	8.35%	0.683%
57	13.568	1950	1952	1958	rVV2	864923	1245306	14.60%	1.195%
58	13.615	1958	1960	1964	rVB	676933	564126	6.61%	0.541%
59	13.662	1964	1968	1971	rBV	660430	692932	8.12%	0.665%
60	13.686	1971	1972	1976	rVB	239359	154023	1.81%	0.148%
61	13.762	1979	1985	1989	rBV2	3419733	5898698	69.14%	5.662%
62	13.798	1989	1991	1997	rVB	3829813	3608031	42.29%	3.463%
63	13.874	1999	2004	2007	rBV2	1005790	975252	11.43%	0.936%
64	13.957	2015	2018	2020	rVB3	159695	144968	1.70%	0.139%
65	13.980	2020	2022	2027	rVB	400287	360012	4.22%	0.346%
66	14.027	2027	2030	2032	rVB2	218139	173072	2.03%	0.166%
67	14.086	2037	2040	2043	rVB3	125374	142735	1.67%	0.137%
68	14.121	2043	2046	2048	rBV	189857	225163	2.64%	0.216%
69	14.157	2048	2052	2055	rVV2	839572	1054754	12.36%	1.012%
70	14.192	2055	2058	2061	rVV2	470042	522950	6.13%	0.502%
71	14.245	2061	2067	2069	rVV3	319436	517040	6.06%	0.496%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

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-BF061219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.274	2069	2072	2074	rVV3	515976	602362	7.06%	0.578%
73	14.298	2074	2076	2079	rVV2	492818	475941	5.58%	0.457%
74	14.333	2079	2082	2083	rVV	147326	159377	1.87%	0.153%
75	14.351	2083	2085	2091	rVB2	213244	225858	2.65%	0.217%
76	14.457	2099	2103	2105	rBV2	397239	439926	5.16%	0.422%
77	14.480	2105	2107	2113	rVV4	125174	201320	2.36%	0.193%
78	14.527	2113	2115	2117	rVV	138966	114824	1.35%	0.110%
79	14.557	2117	2120	2124	rVV2	188970	198542	2.33%	0.191%
80	14.621	2126	2131	2139	rVB3	273407	482549	5.66%	0.463%
81	14.686	2139	2142	2145	rBV2	160897	180600	2.12%	0.173%
82	14.715	2145	2147	2151	rVB	102058	104670	1.23%	0.100%
83	14.774	2151	2157	2165	rBV	3337068	6310824	73.97%	6.057%
84	14.839	2165	2168	2169	rVV	151096	146422	1.72%	0.141%
85	14.862	2169	2172	2175	rVB	567889	546602	6.41%	0.525%
86	14.945	2182	2186	2187	rBV2	144700	163171	1.91%	0.157%
87	14.998	2192	2195	2197	rBV2	152770	143794	1.69%	0.138%
88	15.039	2197	2202	2207	rVB	1937293	2273747	26.65%	2.182%
89	15.092	2207	2211	2216	rBV	1978004	2298596	26.94%	2.206%
90	15.145	2216	2220	2223	rBV2	1190815	1438992	16.87%	1.381%
91	15.174	2223	2225	2228	rVB	386630	334578	3.92%	0.321%
92	15.292	2240	2245	2250	rBV3	180865	399716	4.69%	0.384%
93	15.580	2290	2294	2299	rBV2	156063	280105	3.28%	0.269%
94	15.645	2302	2305	2313	rVB3	112664	211353	2.48%	0.203%
95	16.033	2366	2371	2373	rBV2	85301	160505	1.88%	0.154%
96	16.274	2408	2412	2415	rBV2	109276	190174	2.23%	0.183%
97	16.445	2435	2441	2451	rVB2	683864	1316072	15.43%	1.263%
98	16.598	2463	2467	2470	rBV2	68504	102373	1.20%	0.098%
99	16.645	2471	2475	2480	rVB3	121167	199130	2.33%	0.191%
100	16.833	2500	2507	2515	rVB	440330	879800	10.31%	0.844%

Sum of corrected areas: 104184994

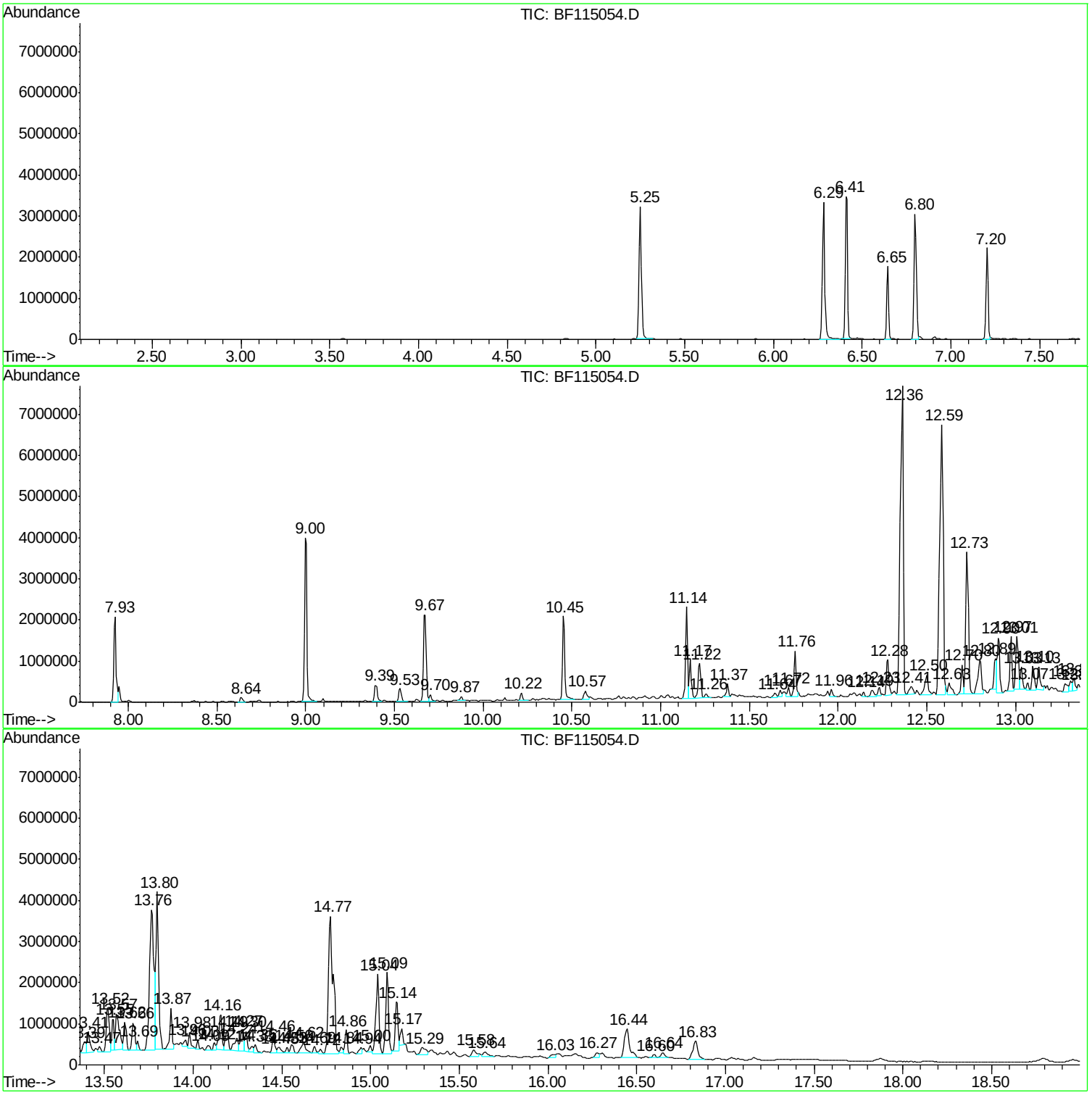
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

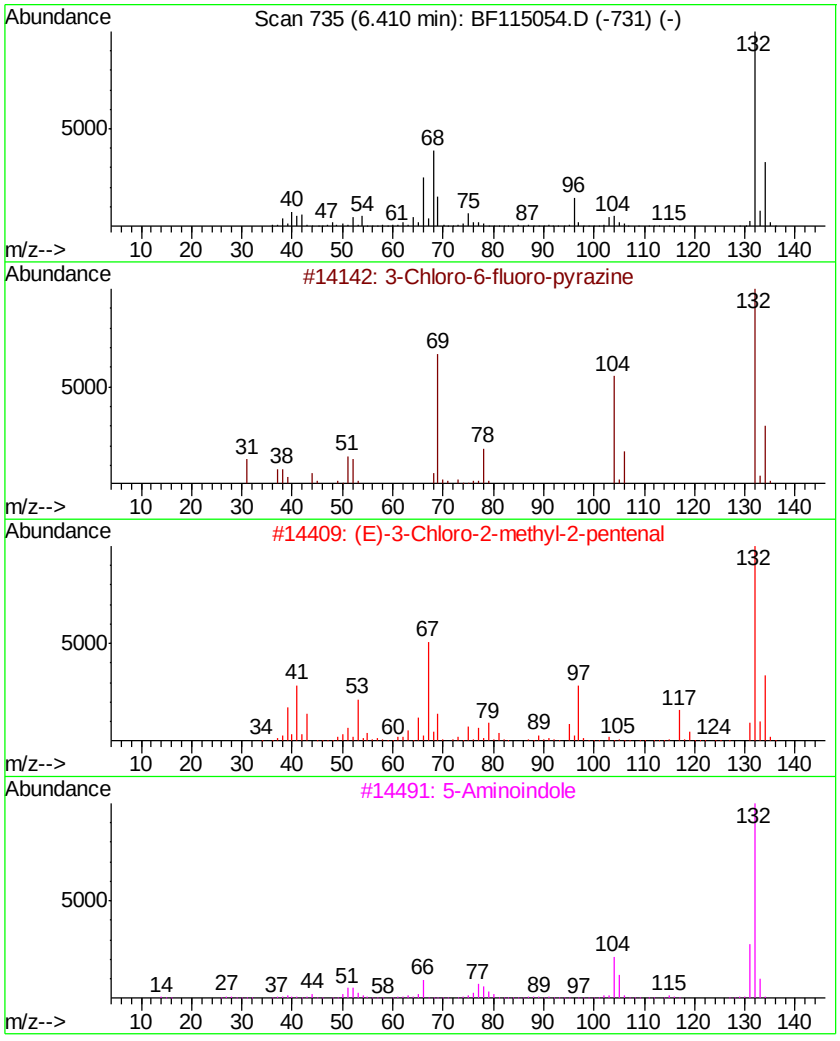
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

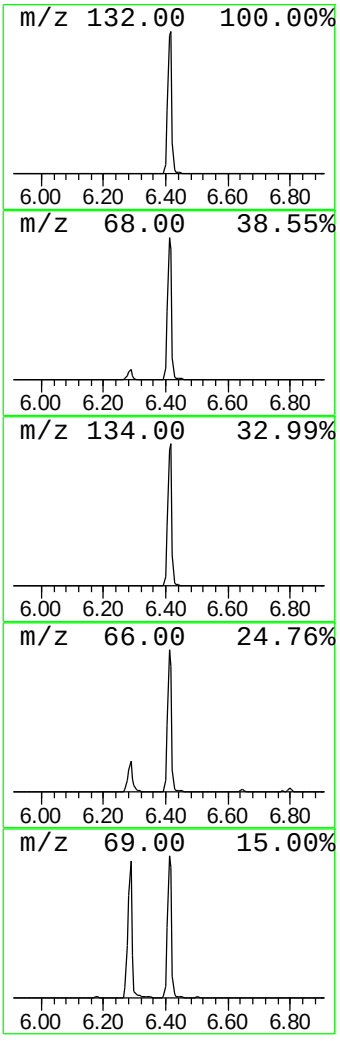
****

Peak Number 1 unknown6.41 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.41	46.54 ng	3348040	1,4-Dichlorobenzene-d4	6.65

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	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

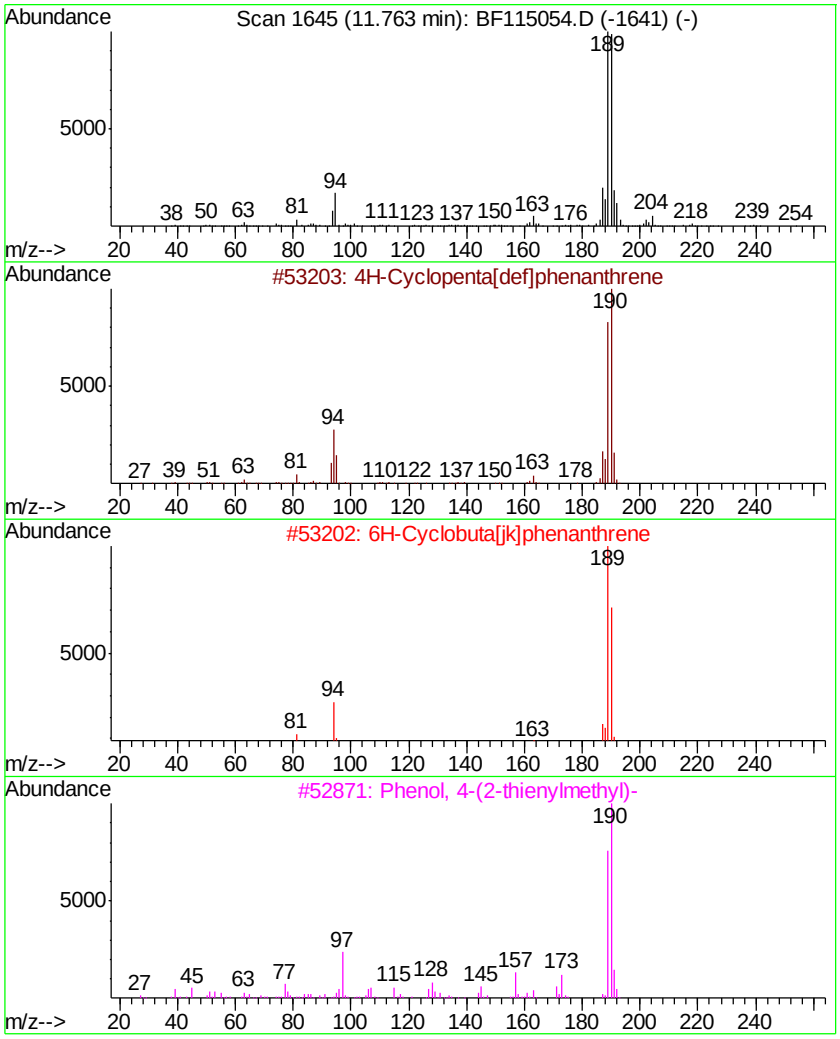
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

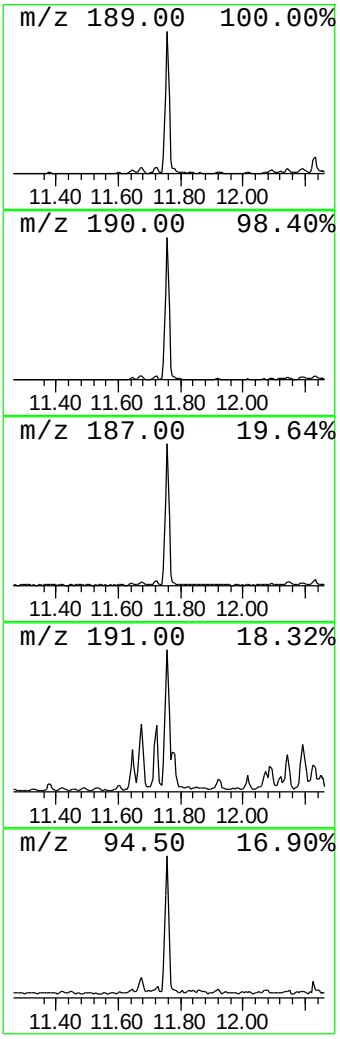
****

Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	10.20 ng	970596	Phenanthrene-d10	11.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	97
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	74
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	64
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	64
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

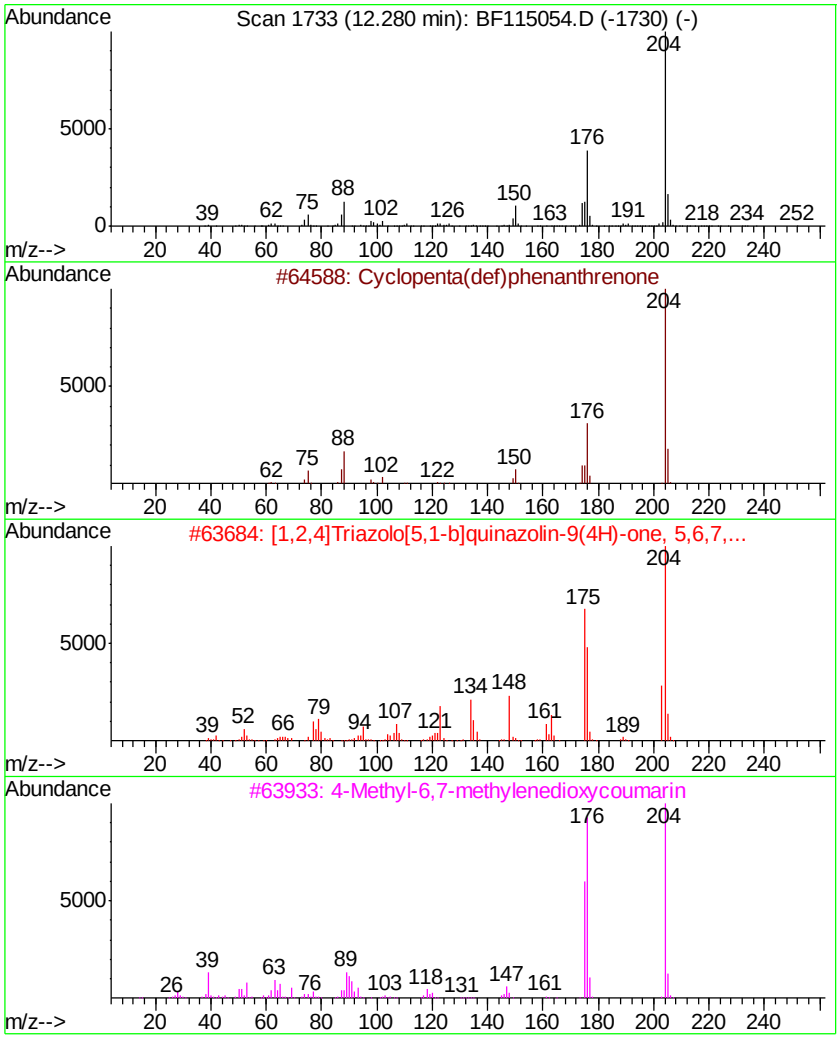
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

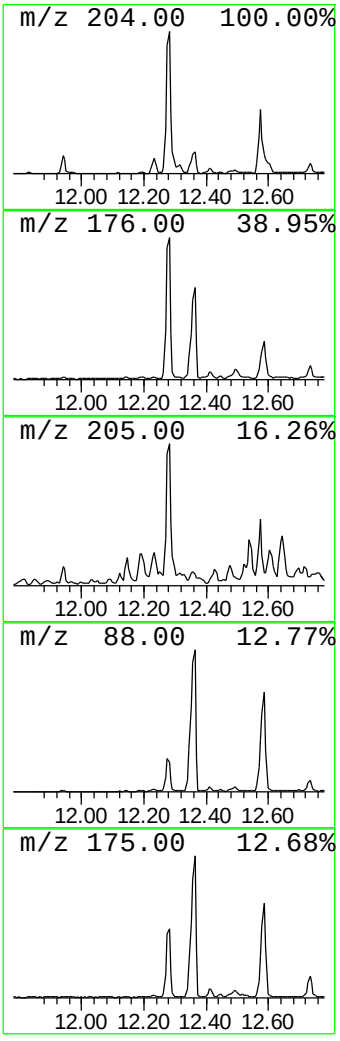
****

Peak Number 4 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	9.80 ng	932239	Phenanthrene-d10	11.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,2,4]Triazolo[5,1-b]quinazolin...	204	C10H12N4O	1000337-56-5	45
3	4-Methyl-6,7-methylenedioxycoumarin	204	C11H8O4	015071-04-2	45
4	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

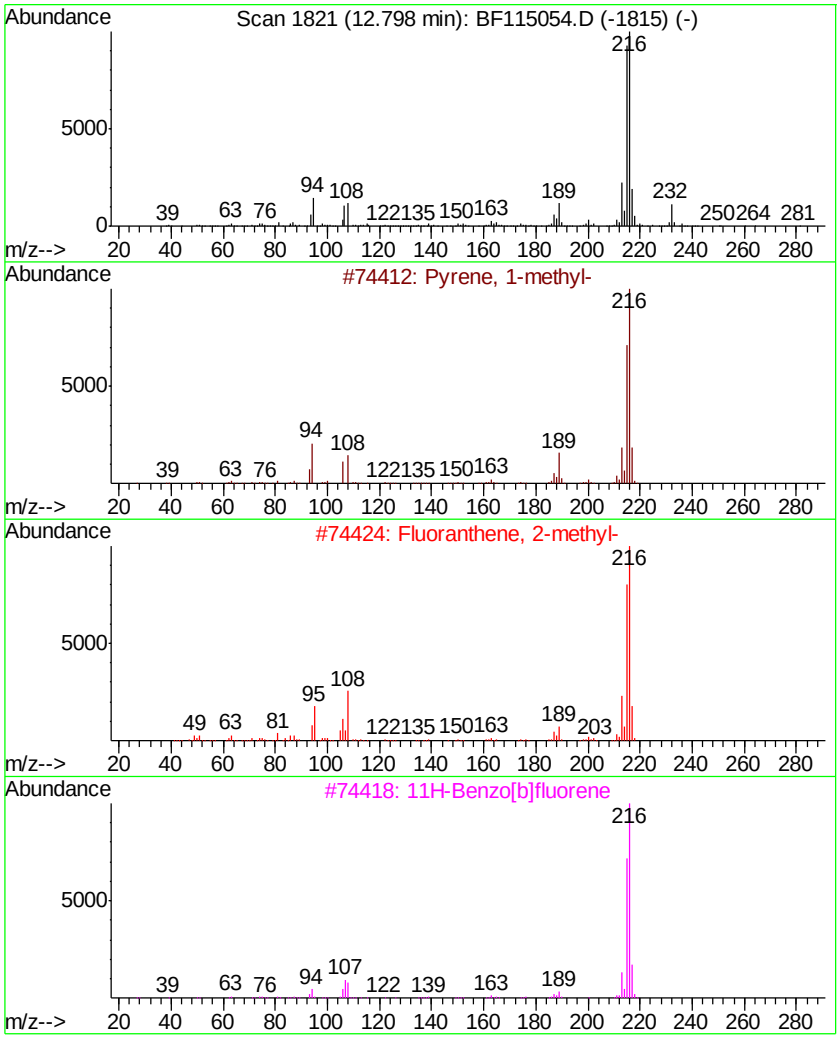
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

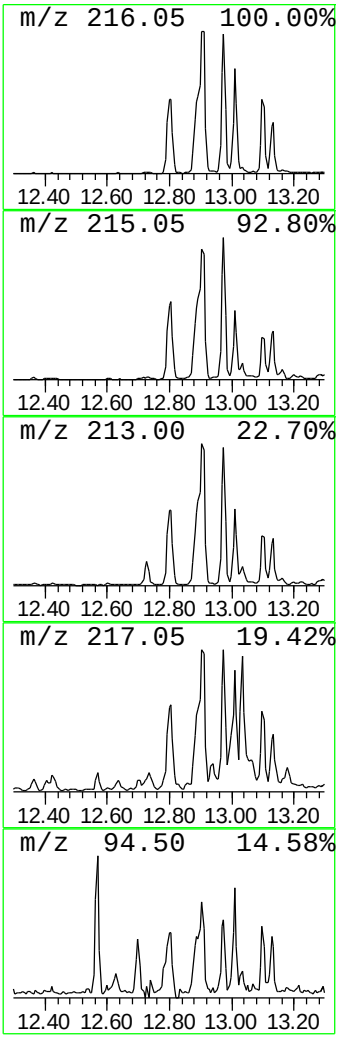
****

Peak Number 5 Pyrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	4.38 ng	1291590	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

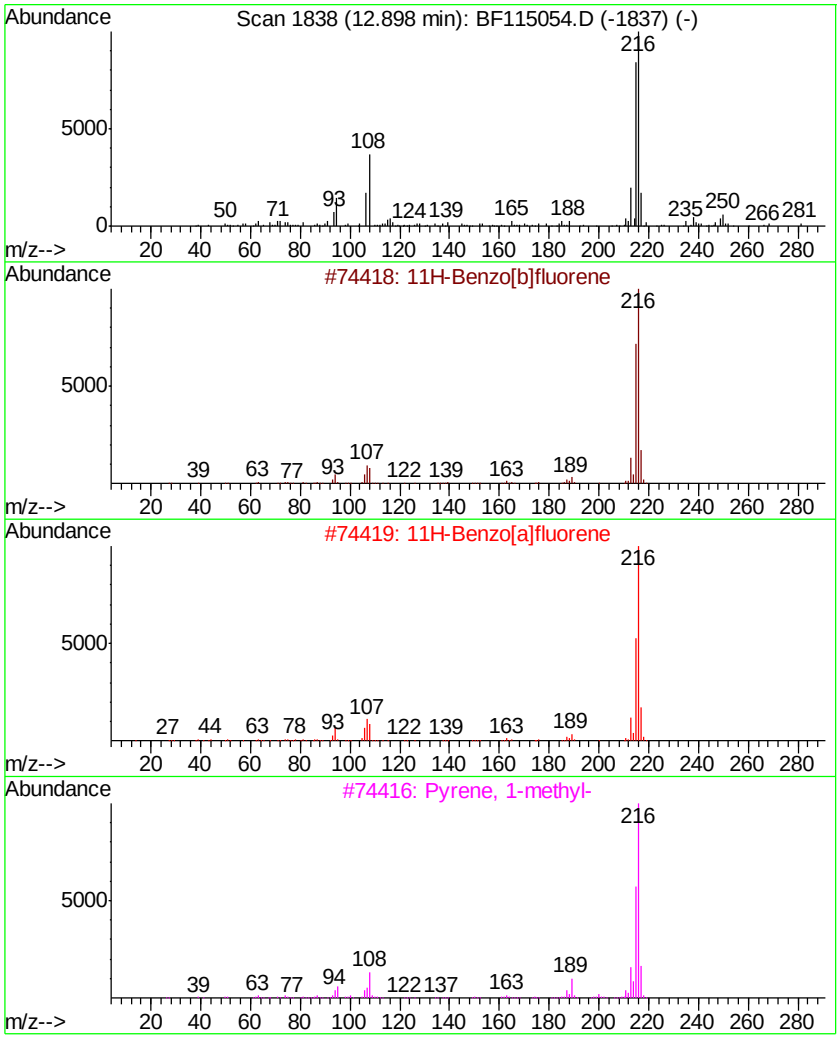
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

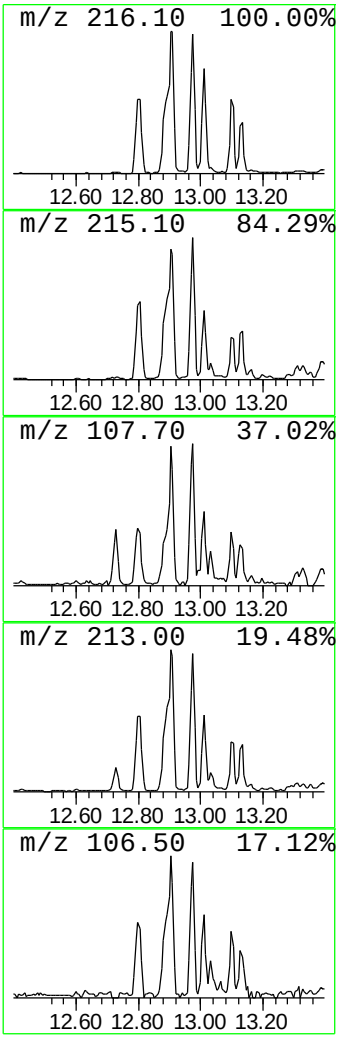
****

Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.90	4.59 ng	1354250	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

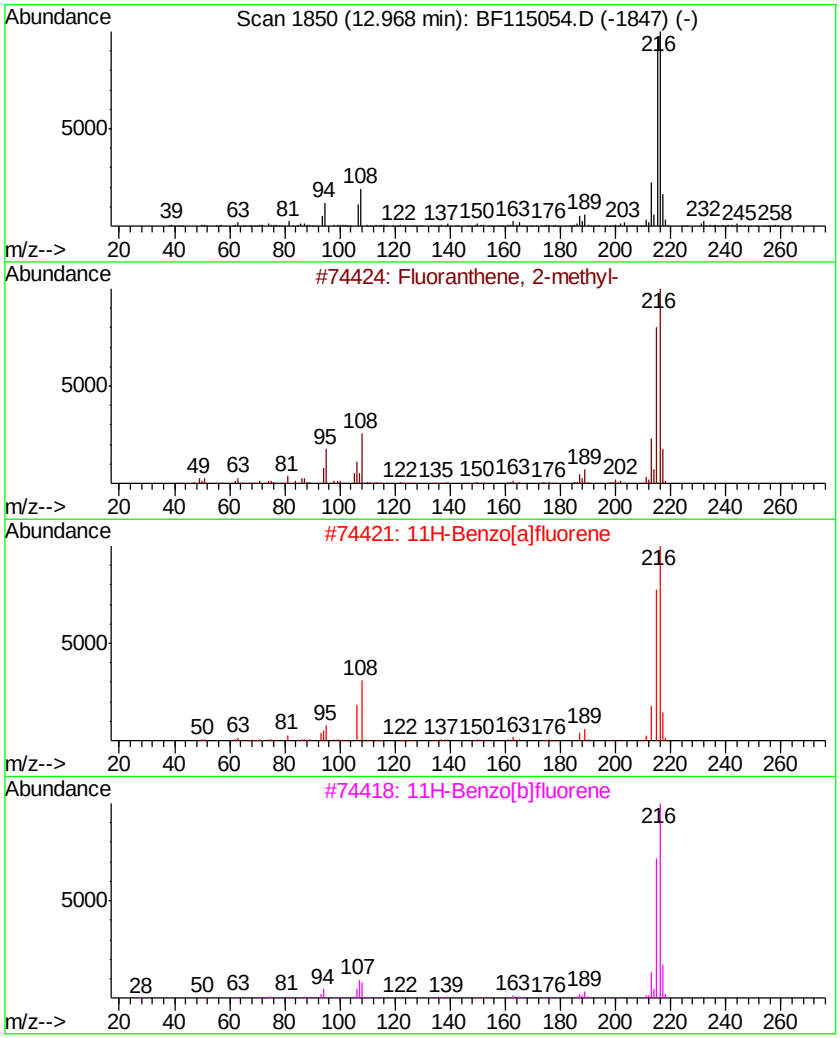
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

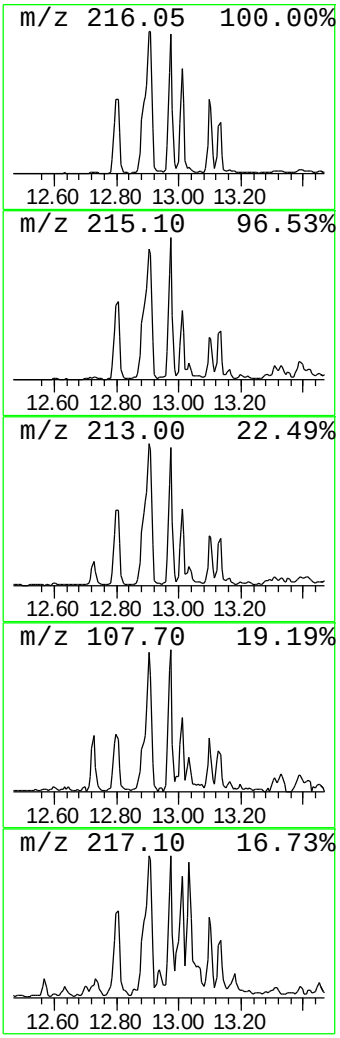
****

Peak Number 8 11H-Benzo[a]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.97	4.04 ng	1191470	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	62
5	Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

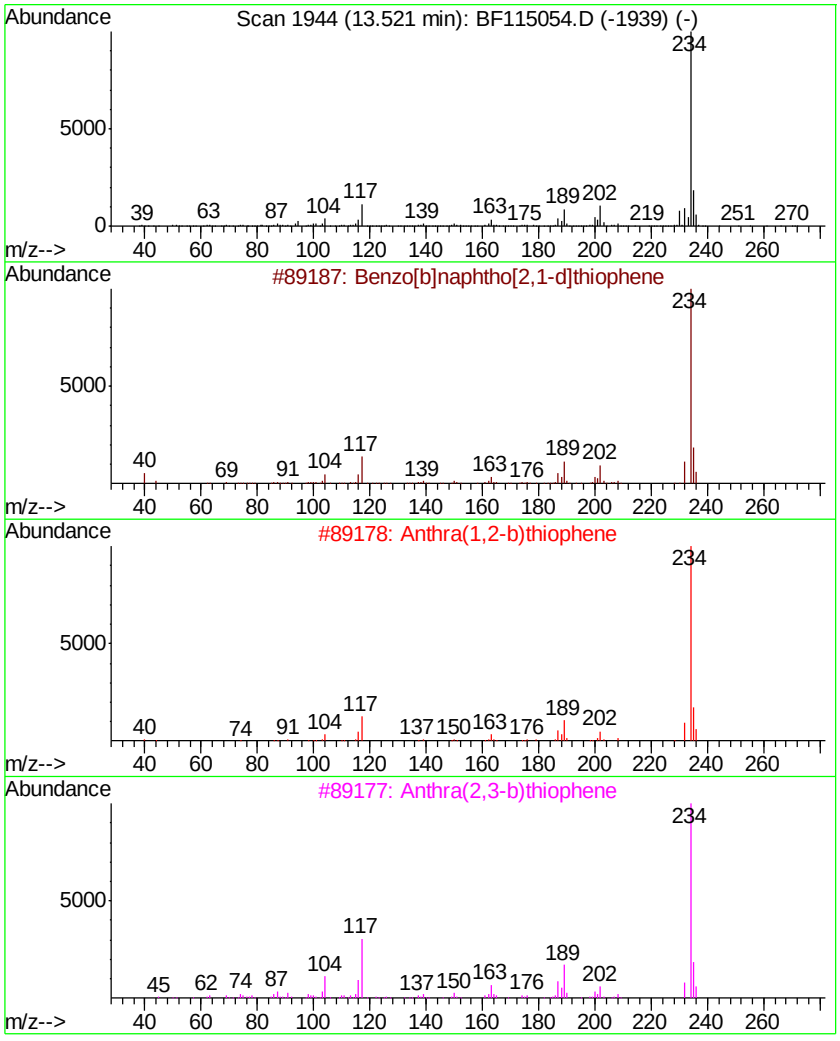
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

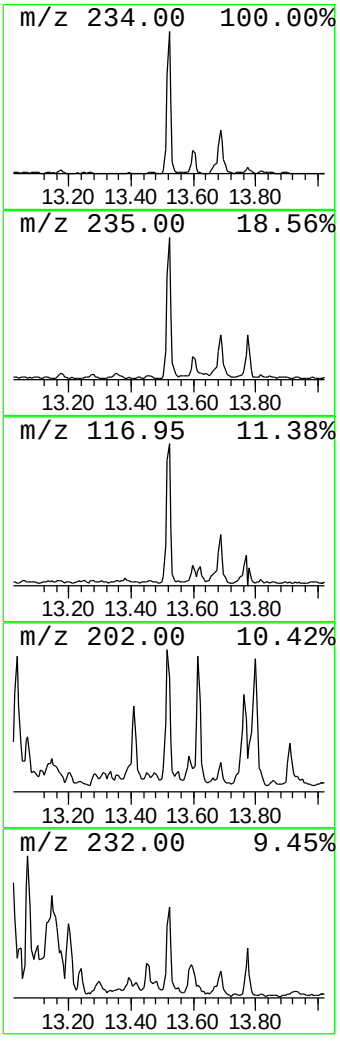
****

Peak Number 10 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.52	3.99 ng	1176590	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	97
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	95
3	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	93
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

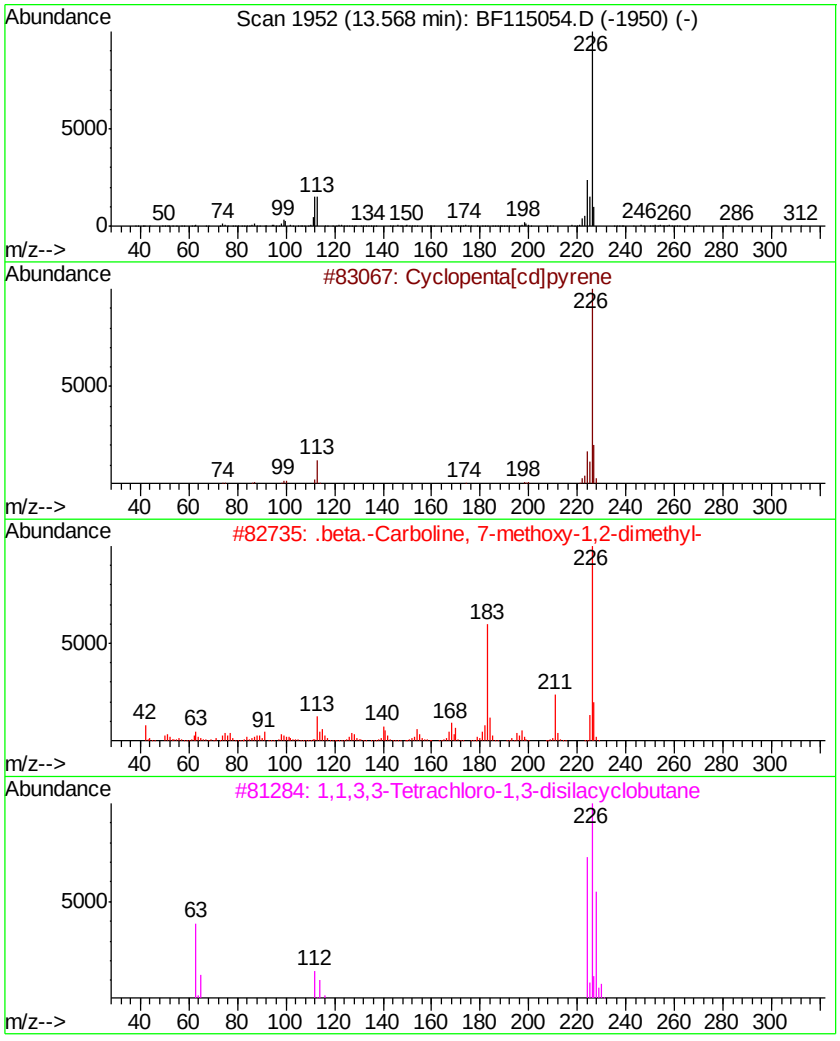
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

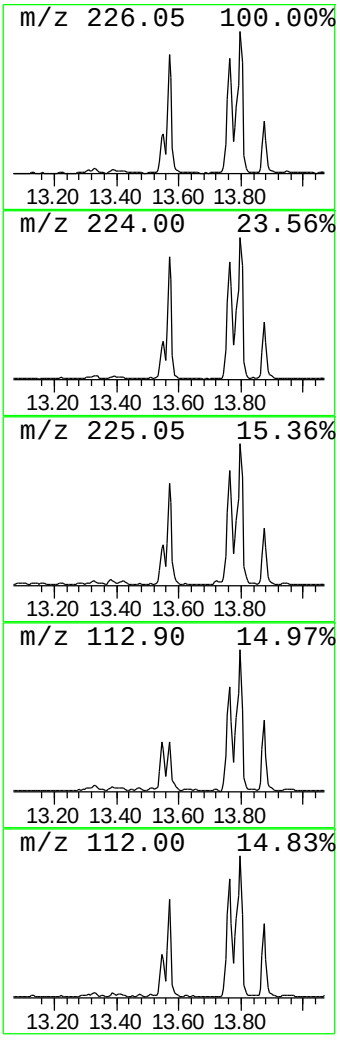
****

Peak Number 11 Cyclopenta[cd]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.22 ng	1245310	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	86
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	38
3	1,1,3,3-Tetrachloro-1,3-disilacy...	224	C2H4Cl4Si2	002146-97-6	36
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	35
5	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	33





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

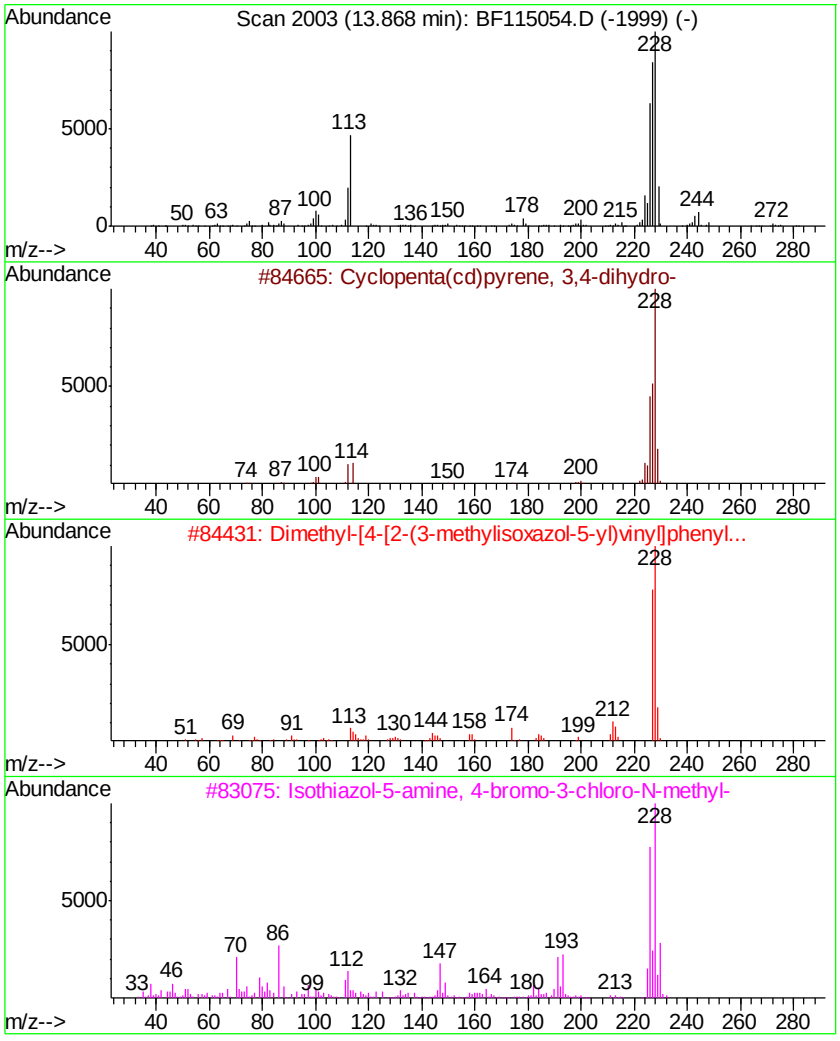
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

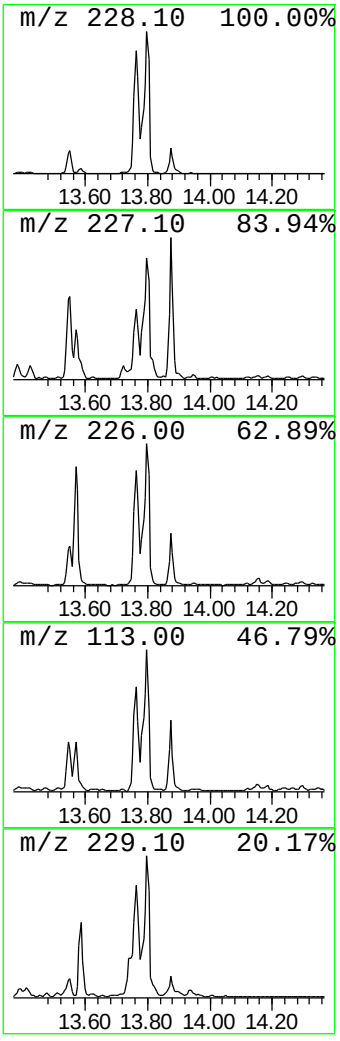
****

Peak Number 12 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	3.31 ng	975252	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
3	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	50
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	40
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

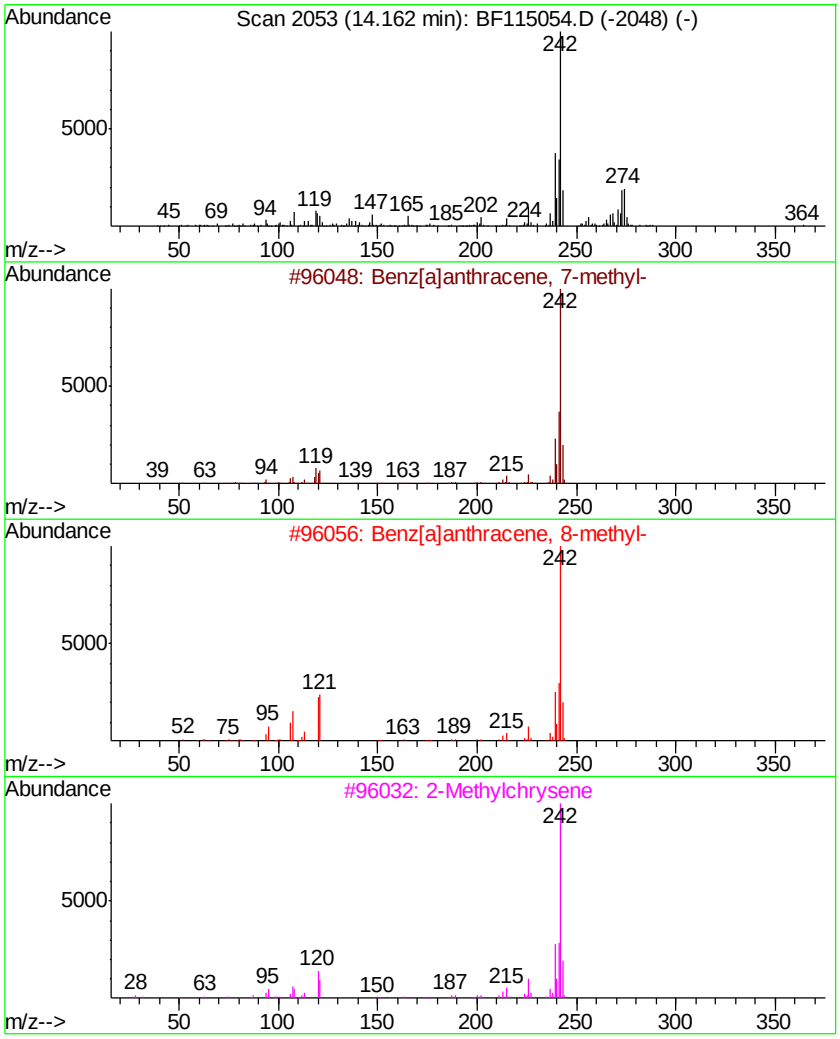
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

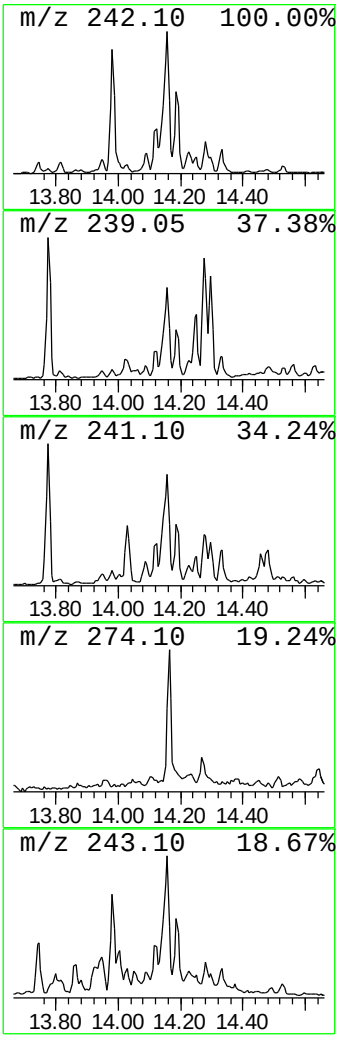
****

Peak Number 13 Benz[a]anthracene, 7-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.16	3.58 ng	1054750	Chrysene-d12	13.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	86
3	2-Methylchrysene	242	C19H14	003351-32-4	86
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	86
5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

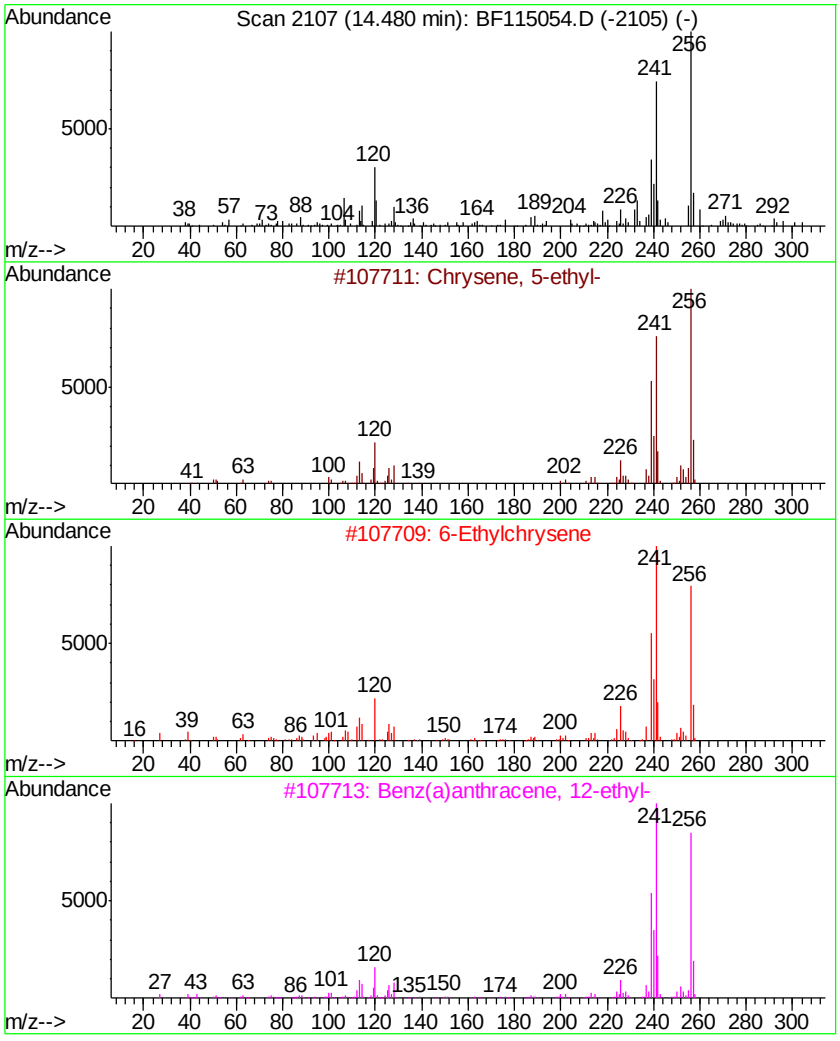
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

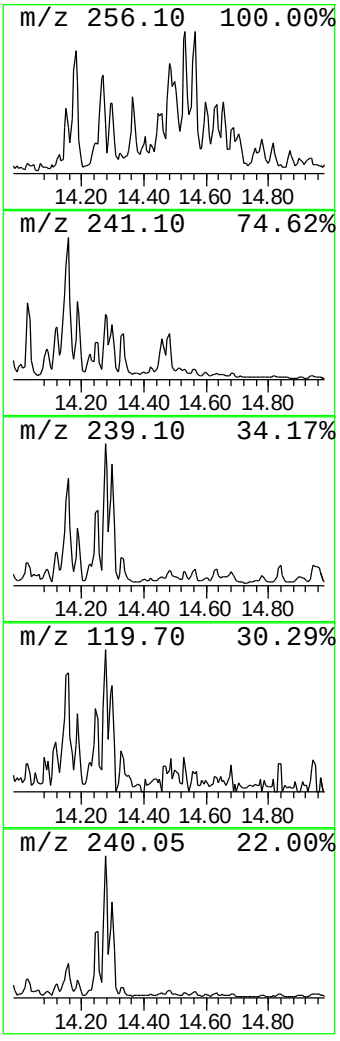
****

Peak Number 14 Chrysene, 5-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	2.80 ng	201320	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 5-ethyl-	256	C20H16	054986-62-8	91
2	6-Ethylchrysene	256	C20H16	1000342-58-3	90
3	Benz(a)anthracene, 12-ethyl-	256	C20H16	018868-66-1	87
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
5	Benz(a)anthracene, 7,8-dimethyl-	256	C20H16	000604-81-9	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

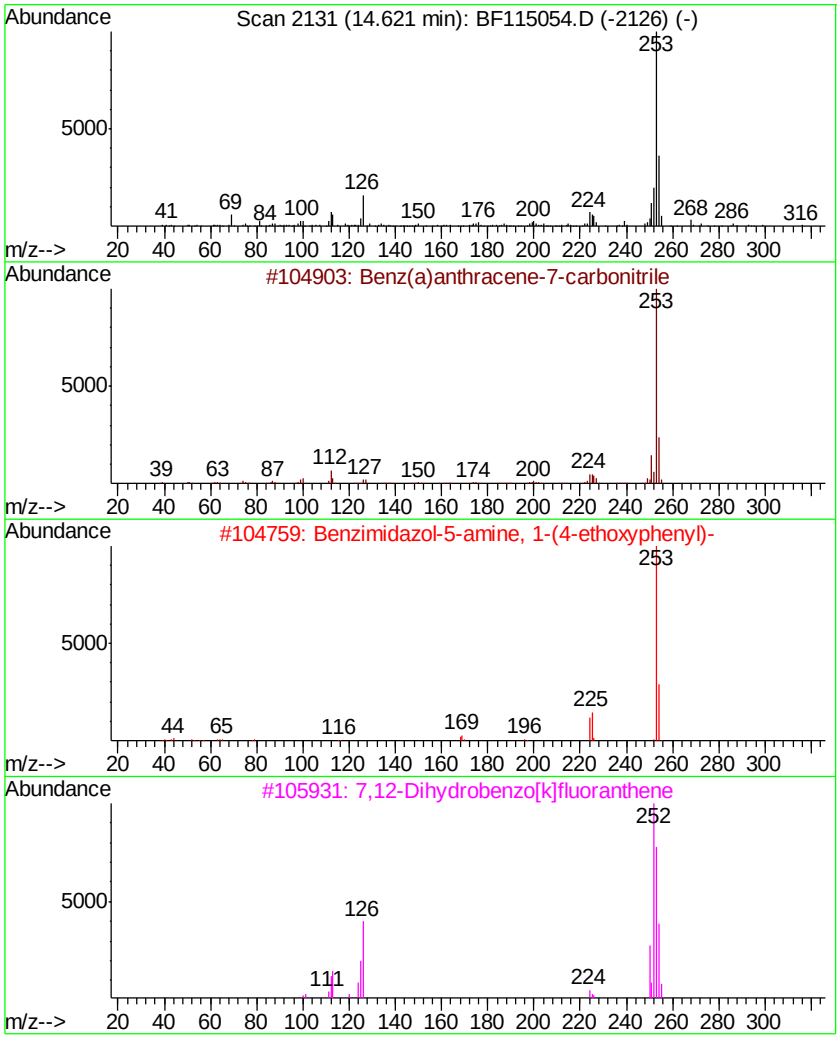
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

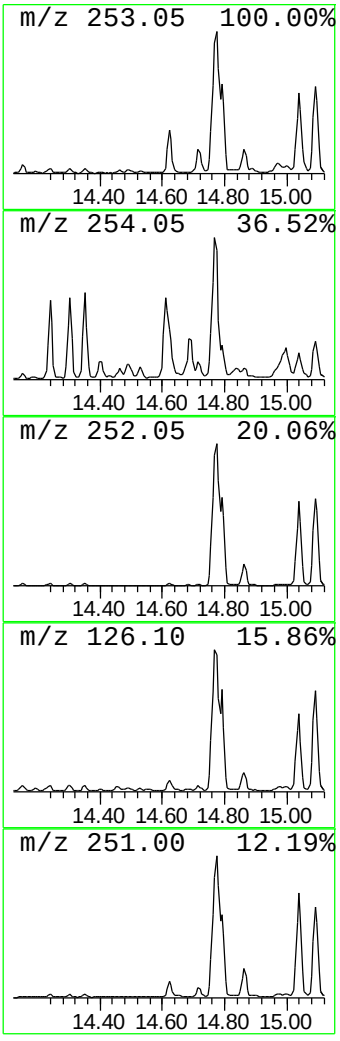
****

Peak Number 15 Benz(a)anthracene-7-carboni... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	6.71 ng	482549	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	76
2	Benzimidazol-5-amine, 1-(4-ethox...	253	C15H15N3O	007104-62-3	50
3	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	50
4	Ethyl 4-(5-methyl-1,1-dioxido-4-...	373	C19H19NO5S	1000294-64-6	38
5	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

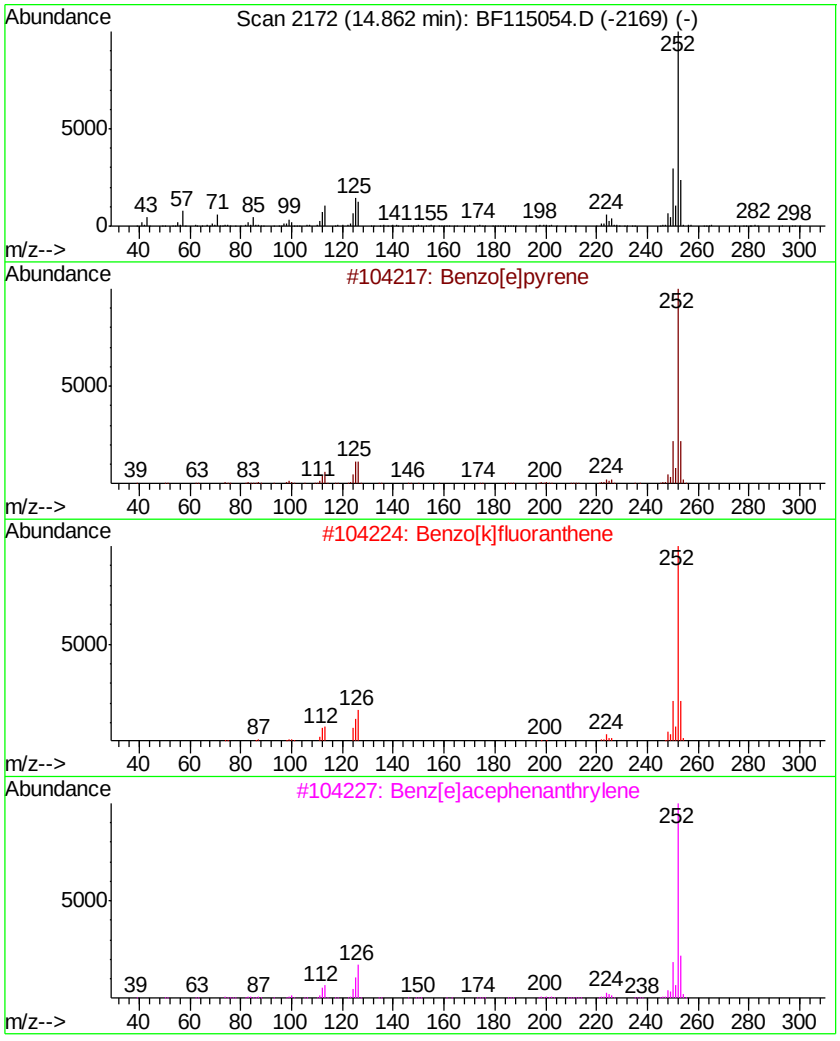
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

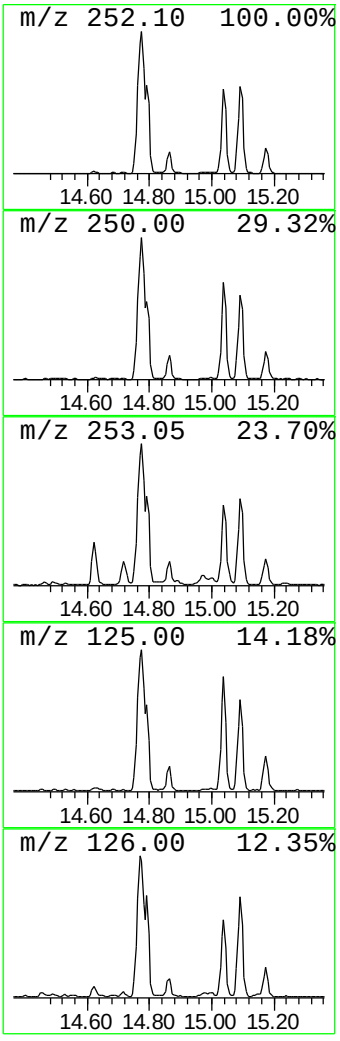
****

Peak Number 16 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	7.60 ng	546602	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

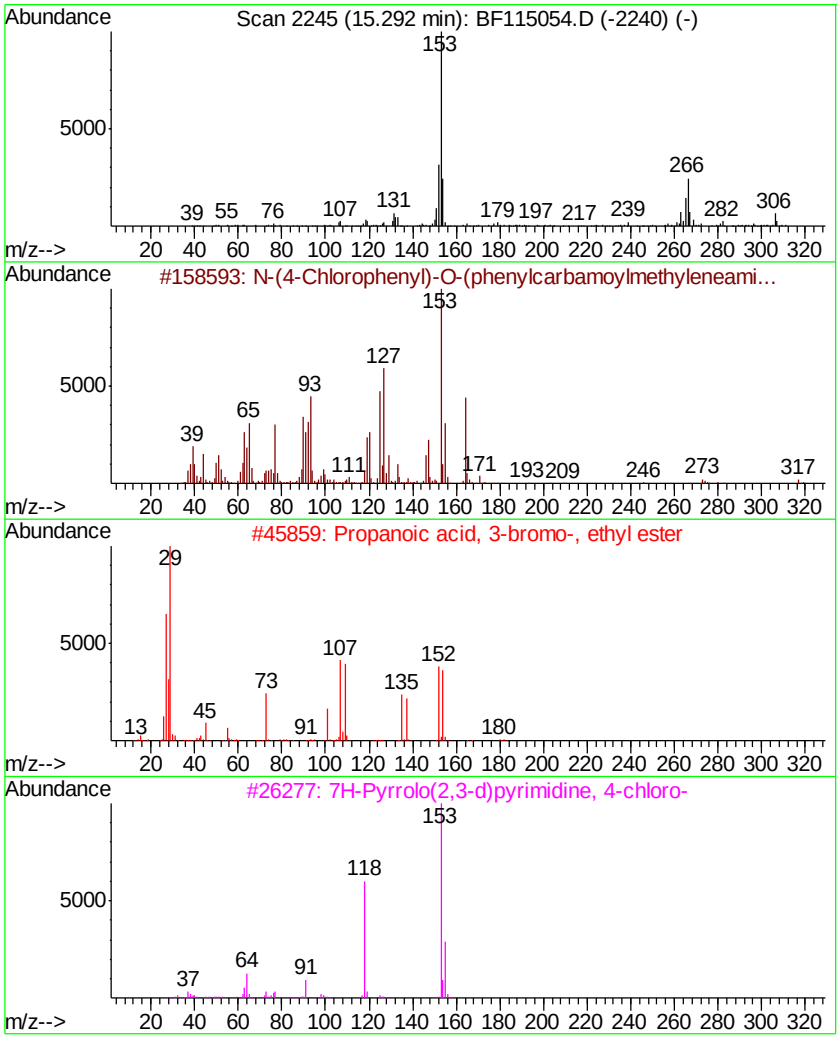
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

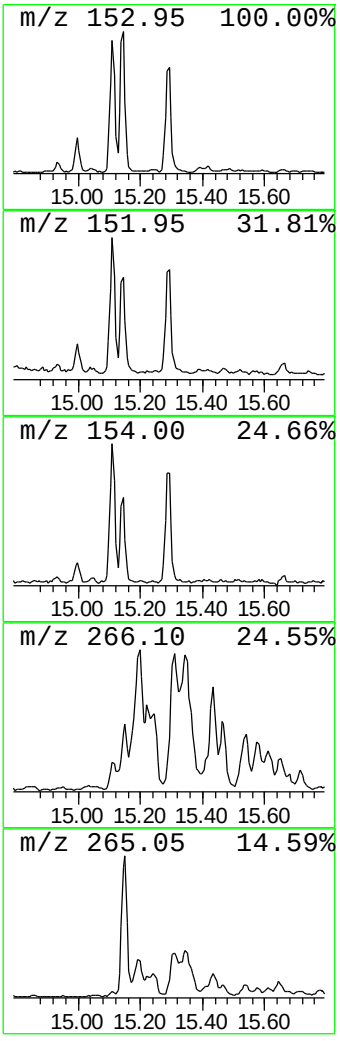
****

Peak Number 18 unknown15.29 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.29	5.56 ng	399716	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-(4-Chlorophenyl)-O-(phenylcarb...	317	C15H12ClN3O3	1000297-23-8	9
2	Propanoic acid, 3-bromo-, ethyl ...	180	C5H9BrO2	000539-74-2	9
3	7H-Pyrrolo(2,3-d)pyrimidine, 4-c...	153	C6H4ClN3	003680-69-1	9
4	.beta.-(1-Naphthyl)acrylic acid	198	C13H10O2	013026-12-5	9
5	9-Borabicyclo[3.3.1]nonane, 9,9'...	306	C16H28B2S2	120885-90-7	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

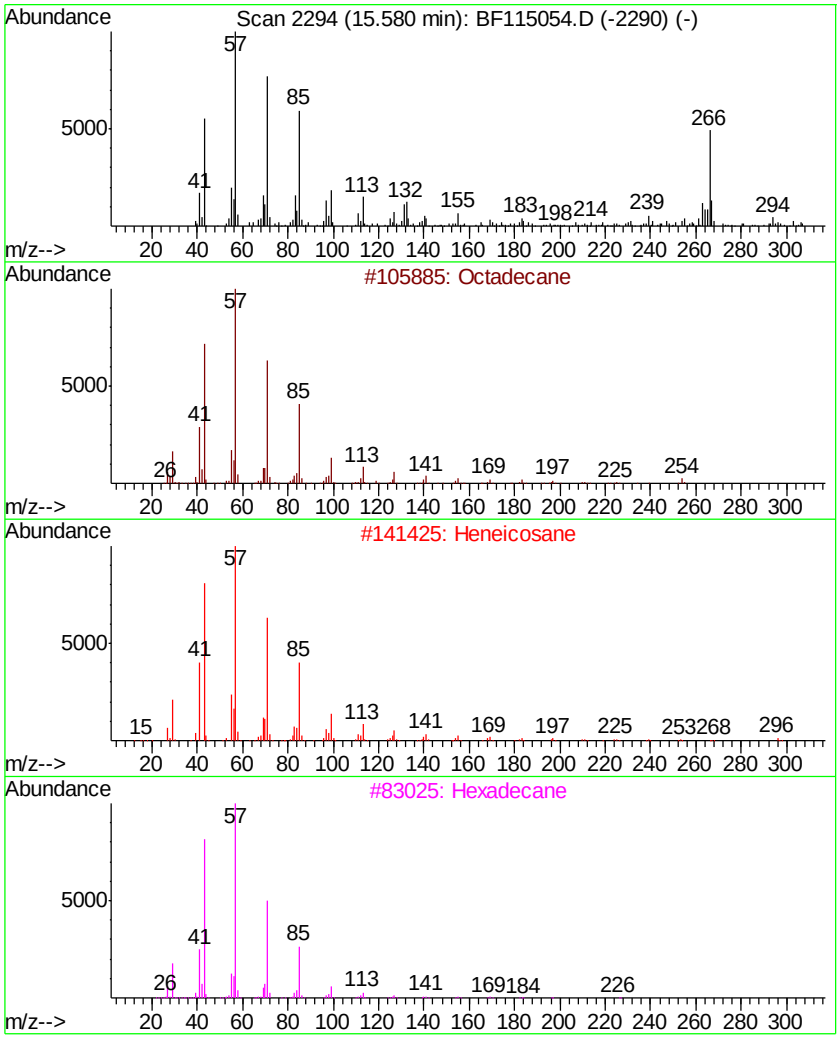
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

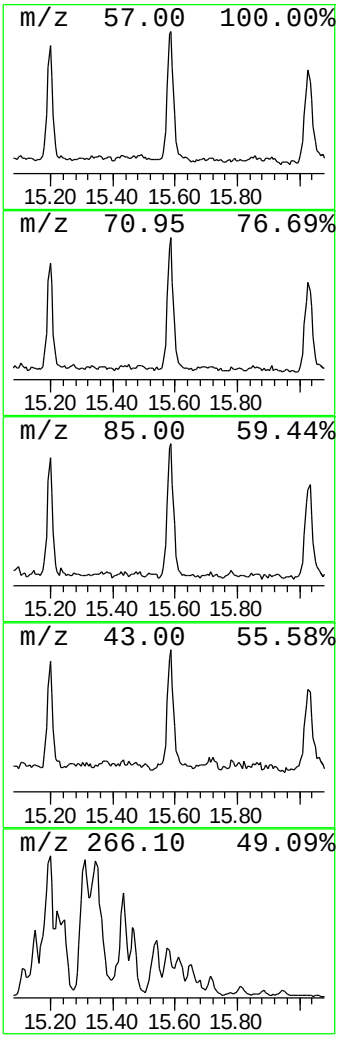
****

Peak Number 19 Octadecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.58	3.89 ng	280105	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	95
2	Heneicosane	296	C21H44	000629-94-7	87
3	Hexadecane	226	C16H34	000544-76-3	55
4	Heptadecane	240	C17H36	000629-78-7	55
5	Hexacosane	366	C26H54	000630-01-3	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

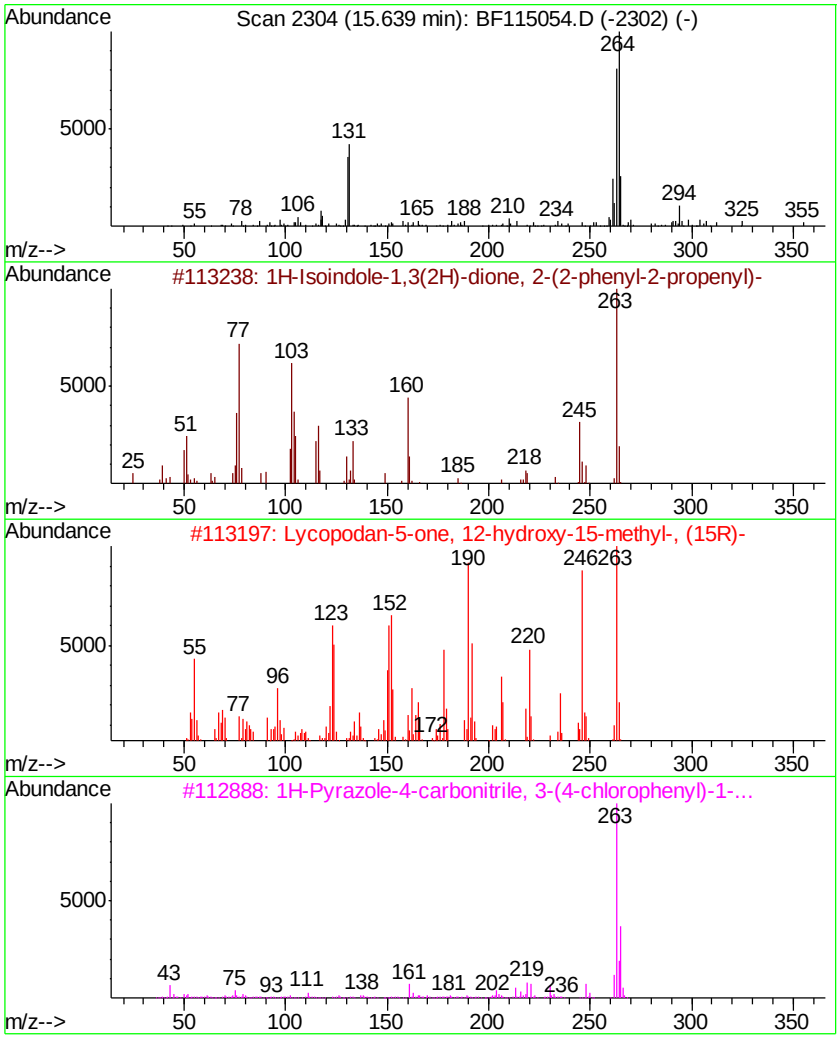
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

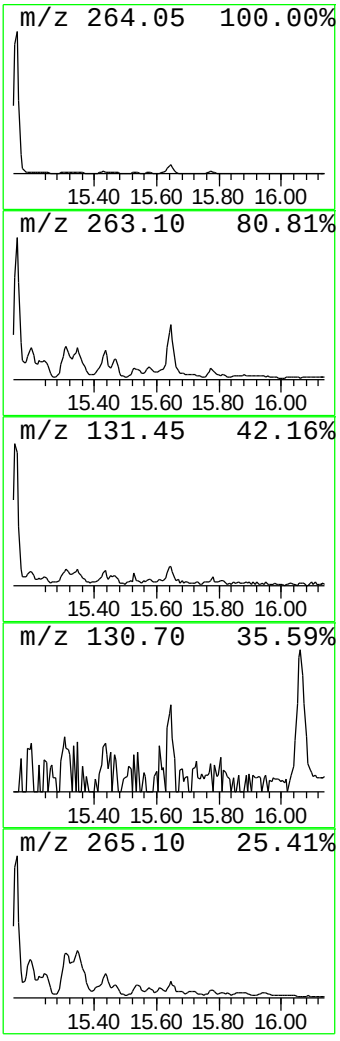
****

Peak Number 20 unknown15.64 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.64	2.94 ng	211353	Perylene-d12	15.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Isoindole-1,3(2H)-dione, 2-(2...	263	C17H13NO2	016307-59-8	38
2	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	35
3	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	27
4	Phenothiazine, 2-chloro-3-methoxy-	263	C13H10ClNOS	017800-08-7	27
5	2-[2-Quinolinyl]methylenequinucl...	264	C17H16N2O	1000257-08-0	22





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061419\
Data File : BF115054.D
Acq On : 14 Jun 2019 21:44
Operator : HP/JU
Sample : K3351-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RT-3425

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061219.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
unknown6.41	6.41	46.5	ng	3348040	1	6.65	1438930	20.0
4H-Cyclopenta[def...	11.76	10.2	ng	970596	4	11.15	1902820	20.0
Cyclopenta(def)ph...	12.28	9.8	ng	932239	4	11.15	1902820	20.0
Pyrene, 1-methyl-	12.80	4.4	ng	1291590	5	13.77	5898700	20.0
11H-Benzo[b]fluorene	12.90	4.6	ng	1354250	5	13.77	5898700	20.0
11H-Benzo[a]fluorene	12.97	4.0	ng	1191470	5	13.77	5898700	20.0
Benzo[b]naphtho[2...	13.52	4.0	ng	1176590	5	13.77	5898700	20.0
Cyclopenta[cd]pyrene	13.57	4.2	ng	1245310	5	13.77	5898700	20.0
Cyclopenta(cd)pyr...	13.87	3.3	ng	975252	5	13.77	5898700	20.0
Benz[a]anthracene...	14.16	3.6	ng	1054750	5	13.77	5898700	20.0
Chrysene, 5-ethyl-	14.48	2.8	ng	201320	6	15.15	1438990	20.0
Benz(a)anthracene...	14.62	6.7	ng	482549	6	15.15	1438990	20.0
Benzo[e]pyrene	14.86	7.6	ng	546602	6	15.15	1438990	20.0
unknown15.29	15.29	5.6	ng	399716	6	15.15	1438990	20.0
Octadecane	15.58	3.9	ng	280105	6	15.15	1438990	20.0
unknown15.64	15.64	2.9	ng	211353	6	15.15	1438990	20.0