LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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	2.116	3	5	20	rVB	1152911	1283977	22.52%	1.097%
2	5.487	573	578	581	rBV	5342837	5093182	89.33%	4.352%
3	6.498	745	750	762	rBV	5466393	5535083	97.08%	4.729%
4	6.628	768	772	775	rBV	6019912	5307856	93.09%	4.535%
5	6.851	807	810	817	rVB	2089469	1687935	29.60%	1.442%
6	7.010	833	837	840	rBV	4969944	4114761	72.17%	3.516%
7	7.416	901	906	909	rBV	3478460	3472597	60.90%	2.967%
8	8.134	1024	1028	1030	rBV	2582747	2084985	36.57%	1.781%
9	8.151	1030	1031	1037	rVB	345334	267576	4.69%	0.229%
10	8.775	1131	1137	1143	rVB	93252	159154	2.79%	0.136%
11	8.845	1146	1149	1155	rVB	236461	188808	3.31%	0.161%
12	9.204	1206	1210	1214	rBV	5710704	5191662	91.05%	4.436%
13	9.598	1274	1277	1285	rVB2	760556	790827	13.87%	0.676%
14	9.745	1298	1302	1306	rBV	913341	763943	13.40%	0.653%
15	9.886	1320	1326	1330	rBV	2639469	2296948	40.29%	1.963%
16	10.445	1416	1421	1426	rVB2	109823	169937	2.98%	0.145%
17	10.675	1456	1460	1469	rVB	3528303	3259803	57.17%	2.785%
18	10.798	1477	1481	1485	rBV3	204844	255305	4.48%	0.218%
19	11.175	1542	1545	1549	rVB	210805	181167	3.18%	0.155%
20	11.269	1558	1561	1566	rVB	231171	229003	4.02%	0.196%
21	11.375	1575	1579	1581	rBV	2150749	2329590	40.86%	1.990%
22	11.398	1581	1583	1589	rVV	2479547	2035558	35.70%	1.739%
23	11.445	1589	1591	1594	rVB	463323	352315	6.18%	0.301%
24	11.663	1623	1628	1631	rVV2	419304	443041	7.77%	0.379%
25	11.704	1632	1635	1638	rVV2	270401	241626	4.24%	0.206%
26	11.763	1642	1645	1647	rVV2	133723	139021	2.44%	0.119%
27	11.827	1653	1656	1660	rBV	145655	170906	3.00%	0.146%
28	11.874	1660	1664	1666	rVV	873207	820033	14.38%	0.701%
29	11.898	1666	1668	1672	rVV2	1441486	1342117	23.54%	1.147%
30	11.945	1674	1676	1679	rVV	173717	167231	2.93%	0.143%
31	11.980	1679	1682	1685	rVV2	1147304	1270195	22.28%	1.085%
32	12.010	1685	1687	1691	rVB	702129	575141	10.09%	0.491%
33	12.069	1691	1697	1701	rBV4	123377	267763	4.70%	0.229%
34	12.104	1701	1703	1706	rVV2	167559	160287	2.81%	0.137%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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	12.169	1710	1714	1716	rVV	741833	755368	13.25%	0.645%
36	12.192	1716	1718	1724	rVB2	832749	820671	14.39%	0.701%
37	12.316	1737	1739	1742	rVV	224320	205808	3.61%	0.176%
38	12.351	1742	1745	1747	rVB	205845	170096	2.98%	0.145%
39	12.374	1747	1749	1751	rVB	195308	148518	2.60%	0.127%
40	12.422	1751	1757	1760	rBV2	807805	1063058	18.64%	0.908%
41	12.457	1760	1763	1765	rVV2	384510	385692	6.76%	0.330%
42	12.480	1765	1767	1769	rVB	294643	216908	3.80%	0.185%
43	12.510	1769	1772	1777	rBV	740541	827914	14.52%	0.707%
44	12.586	1780	1785	1788	rBV	3769216	3377595	59.24%	2.886%
45	12.627	1789	1792	1794	rBV	239868	208618	3.66%	0.178%
46	12.680	1798	1801	1804	rBV	831946	678208	11.89%	0.579%
47	12.716	1804	1807	1809	rBV2	328887	303289	5.32%	0.259%
48	12.751	1809	1813	1819	rVB2	275644	467219	8.19%	0.399%
49	12.821	1819	1825	1830	rBV	5473712	5701706	100.00%	4.872%
50	12.869	1830	1833	1837	rVB2	267288	333946	5.86%	0.285%
51	12.951	1841	1847	1857	rVB	3739359	3979587	69.80%	3.400%
52	13.033	1857	1861	1868	rBV3	689190	1080471	18.95%	0.923%
53	13.086	1868	1870	1872	rBV2	186343	151280	2.65%	0.129%
54	13.121	1872	1876	1878	rBV3	647711	934536	16.39%	0.798%
55	13.186	1884	1887	1889	rBV3	137990	145072	2.54%	0.124%
56	13.210	1889	1891	1894	rVV	261756	250757	4.40%	0.214%
57	13.245	1894	1897	1905	rVB	1005215	1026892	18.01%	0.877%
58	13.310	1905	1908	1910	rBV3	159007	179449	3.15%	0.153%
59	13.339	1910	1913	1916	rVV	999956	901237	15.81%	0.770%
60	13.368	1916	1918	1922	rVB	833164	687703	12.06%	0.588%
61	13.457	1930	1933	1940	rBV6	186560	362782	6.36%	0.310%
62	13.651	1962	1966	1971	rVB	693641	756480	13.27%	0.646%
63	13.757	1979	1984	1987	rBV2	712910	932276	16.35%	0.797%
64	13.786	1987	1989	1992	rVV	809928	710733	12.47%	0.607%
65	13.816	1992	1994	1996	rVV	672430	558270	9.79%	0.477%
66	13.857	1996	2001	2006	rVB3	699387	1178471	20.67%	1.007%
67	14.010	2022	2027	2030	rBV2	2952136	4616915	80.97%	3.945%
68	14.039	2030	2032	2040	rVB	2994669	2922151	51.25%	2.497%
69	14.098	2040	2042	2046	rBV3	163952	222004	3.89%	0.190%
70	14.139	2046	2049	2050	rVV2	208794	199913	3.51%	0.171%
71	14.163	2050	2053	2062	rVB	1064598	1424590	24.99%	1.217%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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	14.268	2069	2071	2074	rBV3	189761	187056	3.28%	0.160%
73	14.363	2085	2087	2089	rBV	220987	216322	3.79%	0.185%
74	14.404	2089	2094	2097	rVV	864364	1102934	19.34%	0.942%
75	14.439	2097	2100	2104	rVV2	618447	838889	14.71%	0.717%
76	14.480	2104	2107	2112	rVV3	744037	1224034	21.47%	1.046%
77	14.527	2112	2115	2117	rVV3	592580	676092	11.86%	0.578%
78	14.551	2117	2119	2122	rVV	545981	499961	8.77%	0.427%
79	14.598	2125	2127	2130	rVB	411621	380508	6.67%	0.325%
80	14.786	2157	2159	2163	rVB4	129117	146855	2.58%	0.125%
81	14.827	2163	2166	2169	rVB2	343957	373406	6.55%	0.319%
82	14.863	2169	2172	2174	rBV2	131844	136359	2.39%	0.117%
83	14.892	2174	2177	2181	rBV2	128178	235128	4.12%	0.201%
84	14.927	2181	2183	2186	rVB2	265845	220481	3.87%	0.188%
85	14.957	2186	2188	2190	rBV3	120705	141725	2.49%	0.121%
86	15.063	2201	2206	2213	rBV	2328490	4521585	79.30%	3.863%
87	15.121	2213	2216	2218	rVV2	404923	467810	8.20%	0.400%
88	15.145	2218	2220	2222	rVV2	369872	467375	8.20%	0.399%
89	15.168	2222	2224	2228	rVB	570384	552505	9.69%	0.472%
90	15.368	2253	2258	2263	rVB	2001410	2565441	44.99%	2.192%
91	15.433	2263	2269	2272	rBV	2143945	2766782	48.53%	2.364%
92	15.492	2272	2279	2282	rBV	1310376	1926899	33.80%	1.646%
93	15.698	2311	2314	2320	rVB4	305575	446054	7.82%	0.381%
94	15.810	2330	2333	2336	rVB	138250	148755	2.61%	0.127%
95	15.933	2349	2354	2358	rBV3	450712	663070	11.63%	0.567%
96	16.051	2371	2374	2378	rVB2	221840	290091	5.09%	0.248%
97	16.721	2484	2488	2493	rBV2	247261	490333	8.60%	0.419%
98	16.962	2523	2529	2535	rVB	892944	1634186	28.66%	1.396%
99	17.409	2598	2605	2612	rVB	809973	1621585	28.44%	1.385%
100	17.539	2623	2627	2638	rVB10	206776	563435	9.88%	0.481%

Sum of corrected areas: 117041172

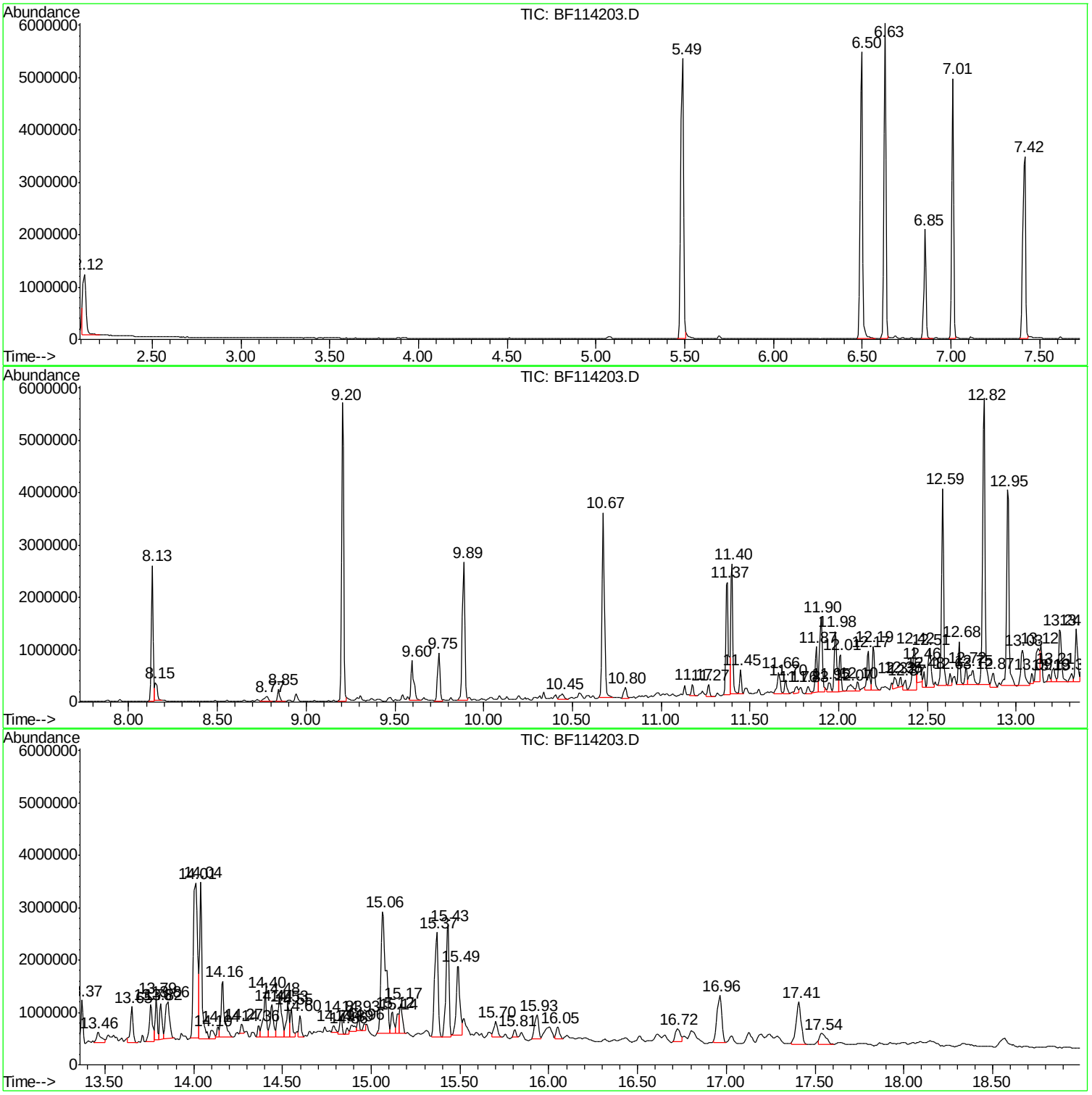
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

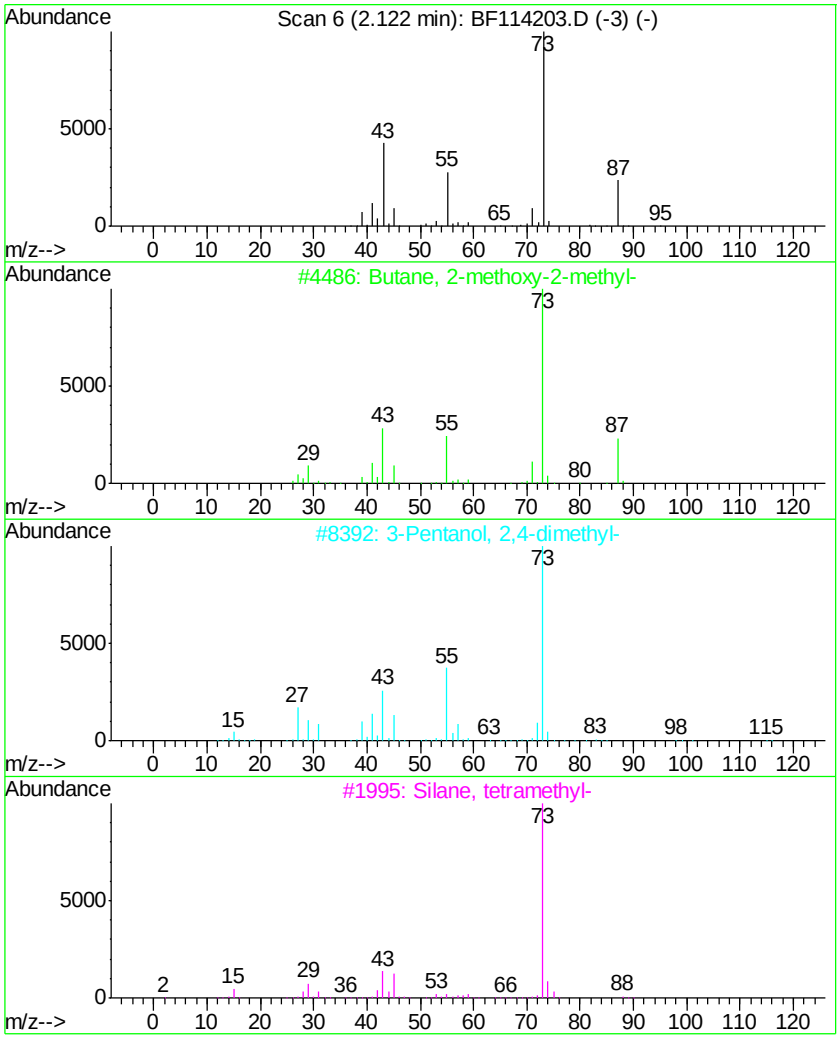
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

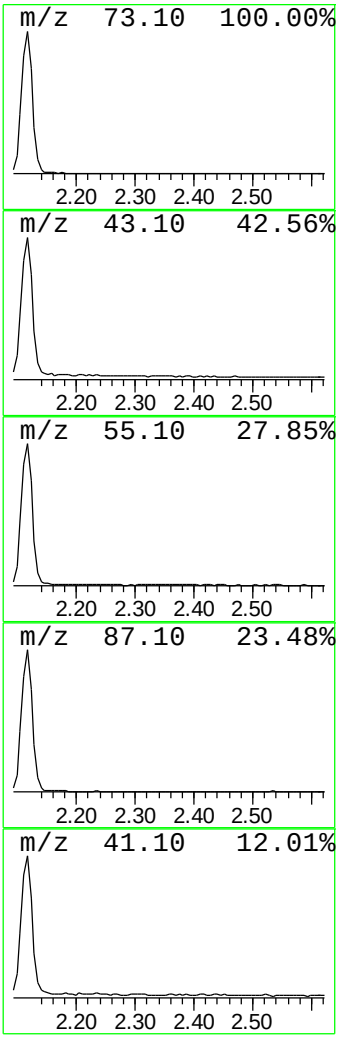
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.12	15.21 ng	1283980	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

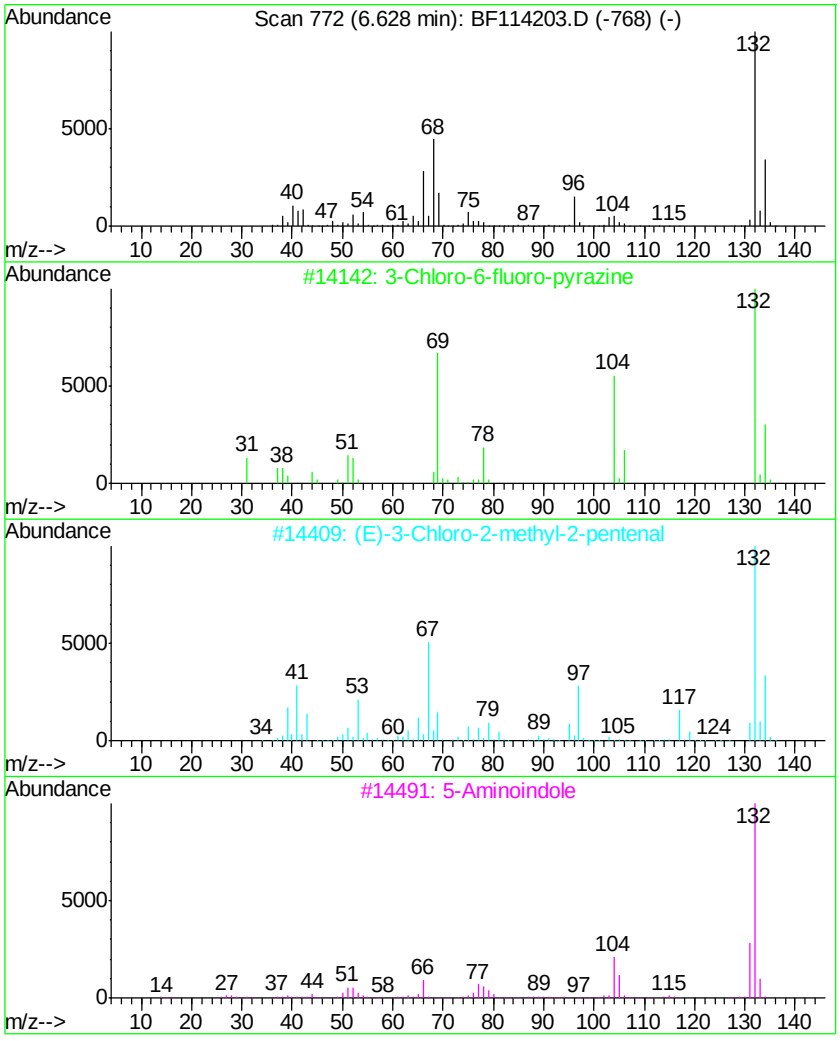
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

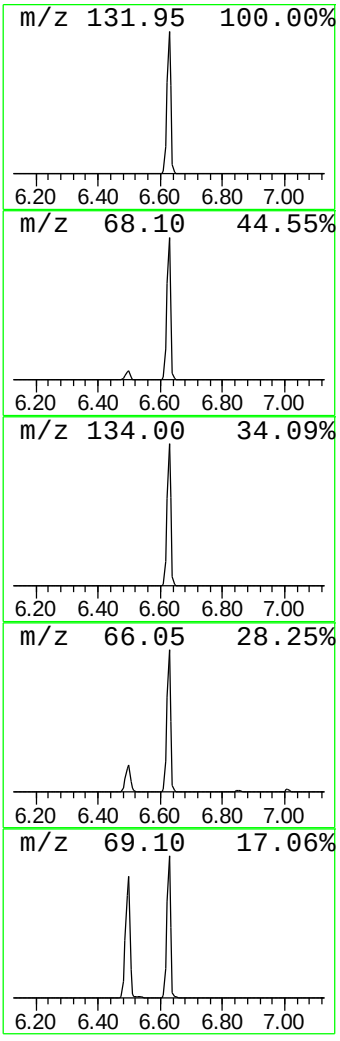
****

Peak Number 2 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	62.89 ng	5307860	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	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	1,2,4-Trifluorobenzene	132	C6H3F3	000367-23-7	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

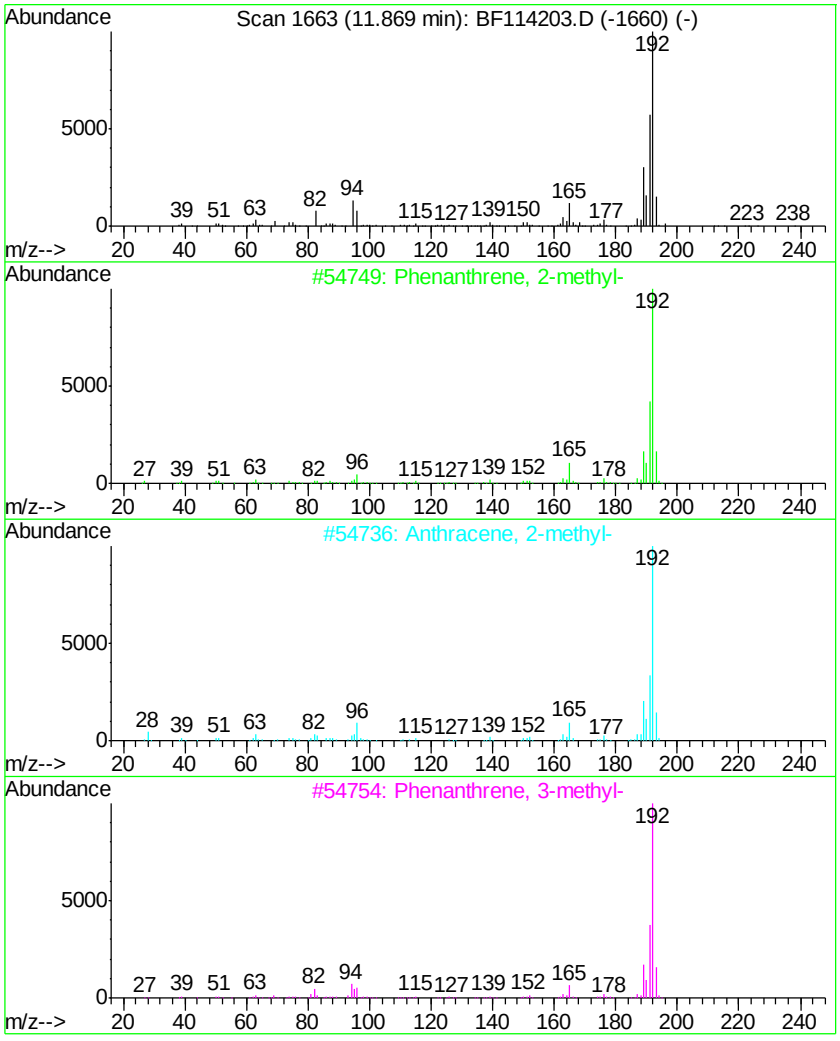
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

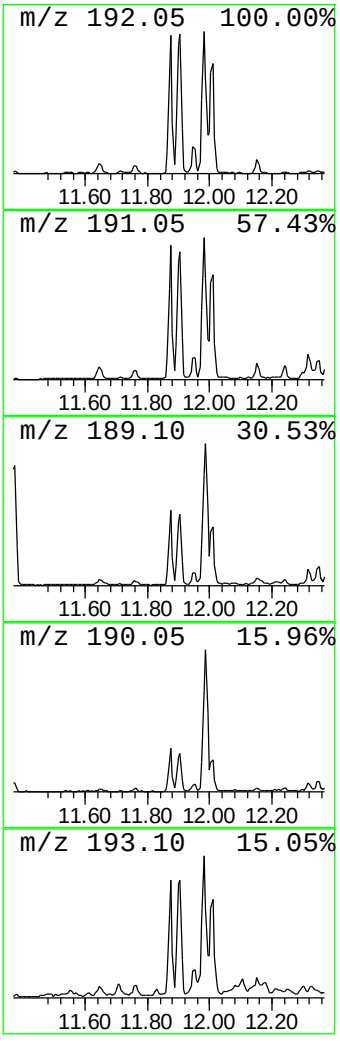
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	7.04 ng	820033	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

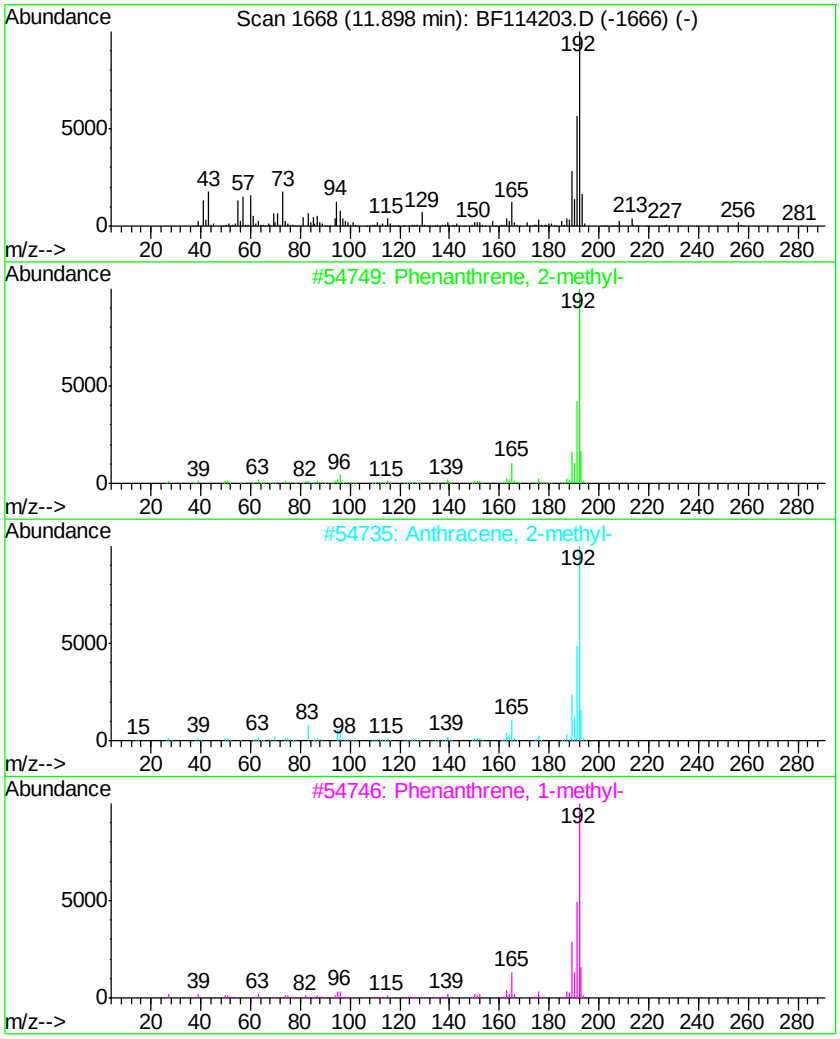
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

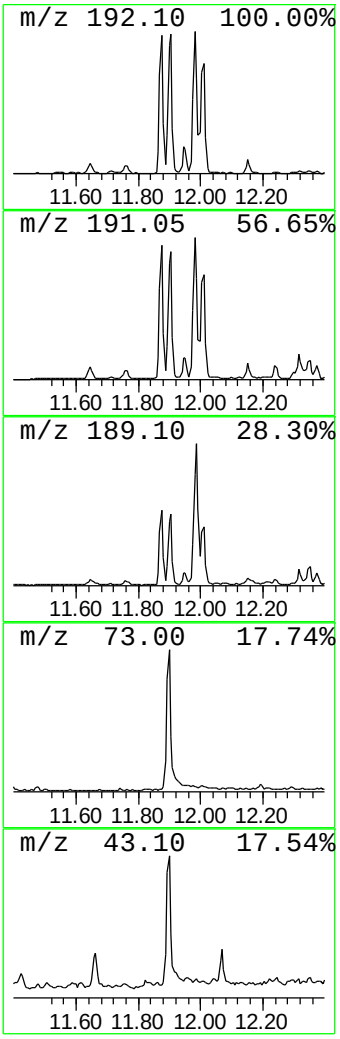
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	11.52 ng	1342120	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

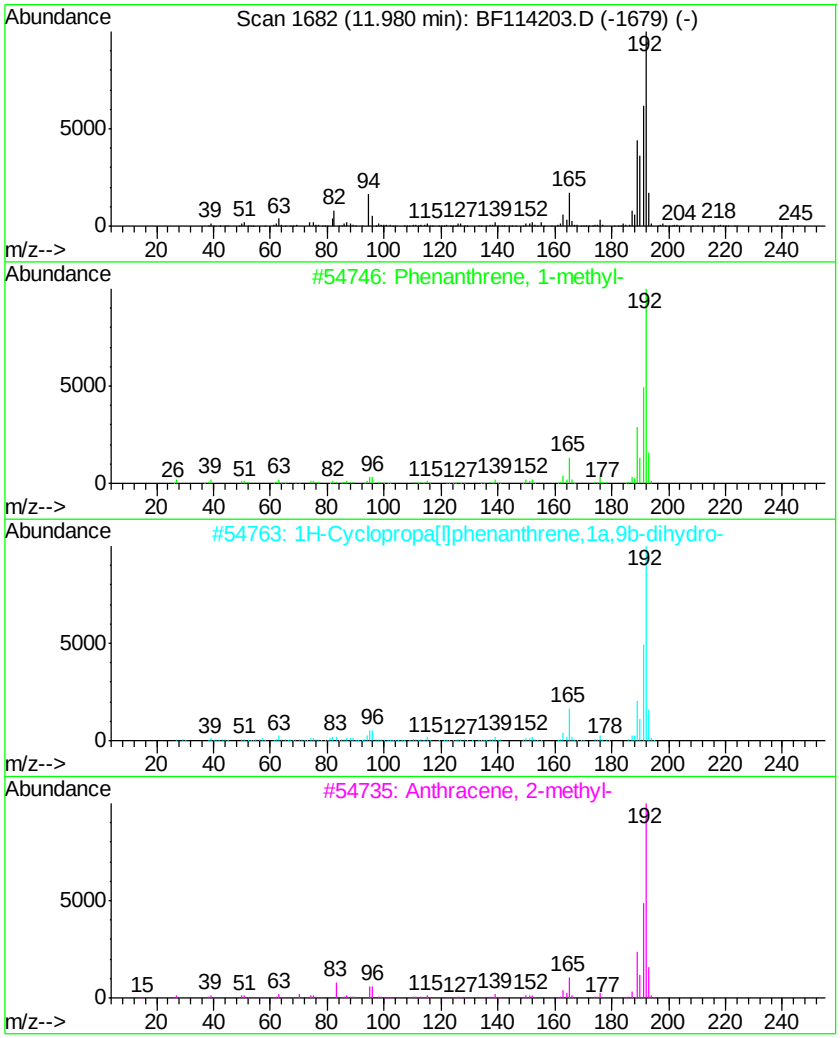
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

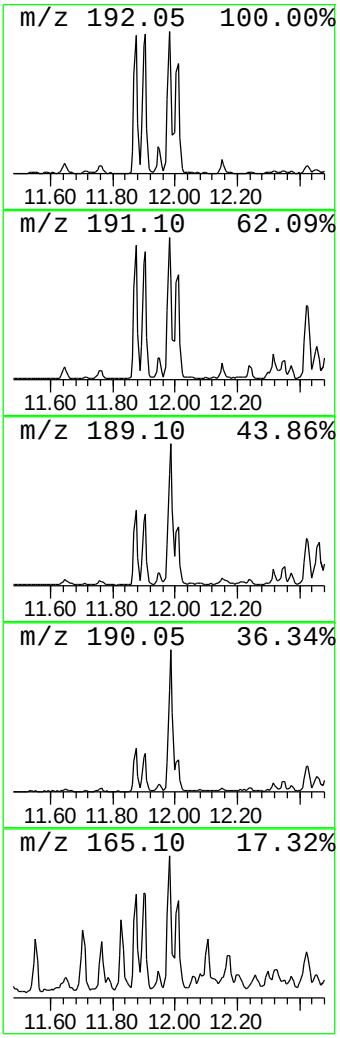
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	10.90 ng	1270200	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	92





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

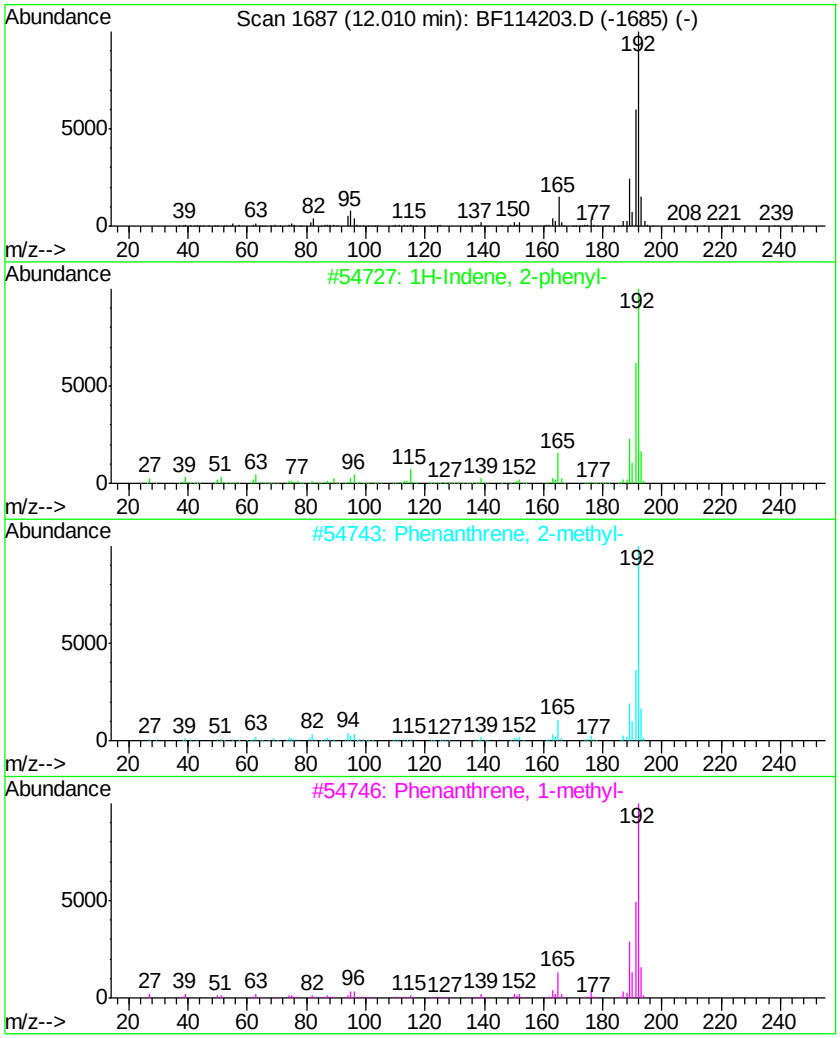
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

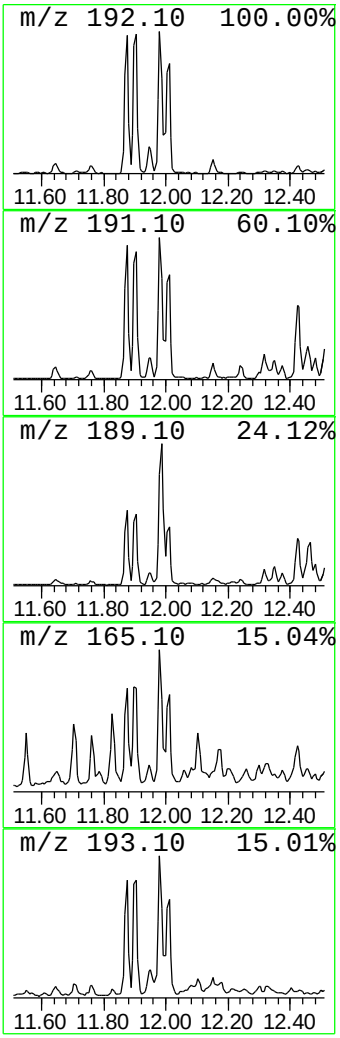
****

Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.94 ng	575141	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	91
5	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

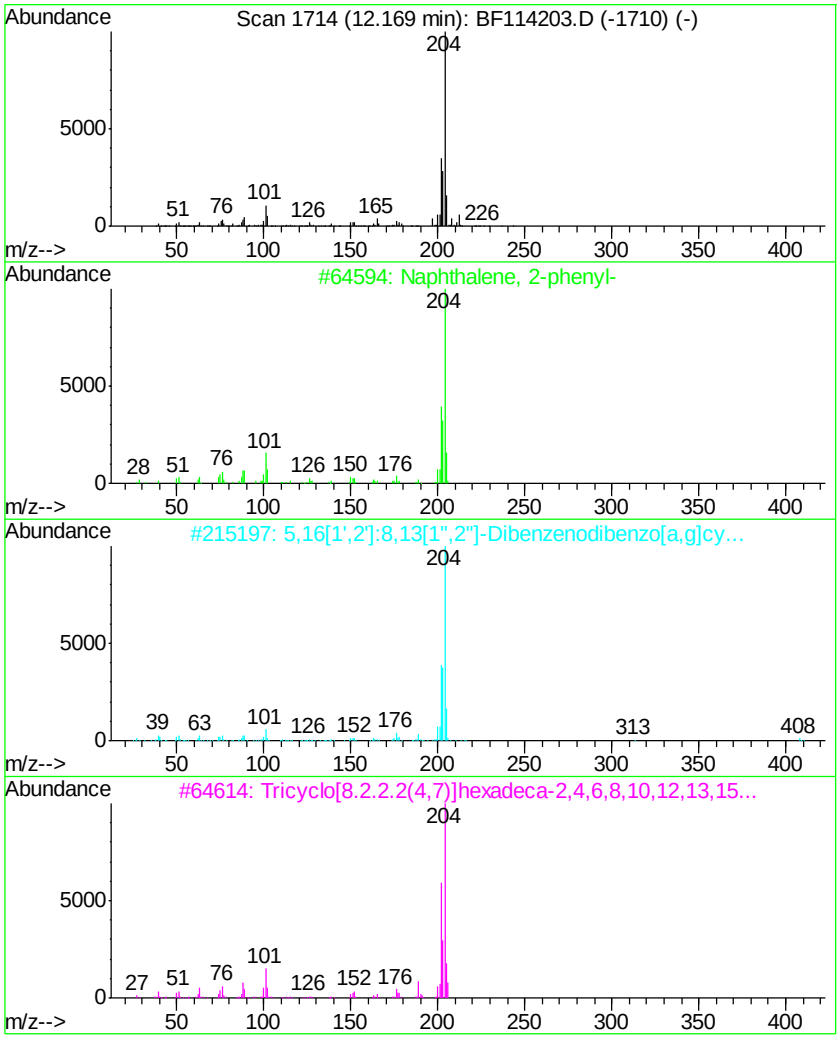
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

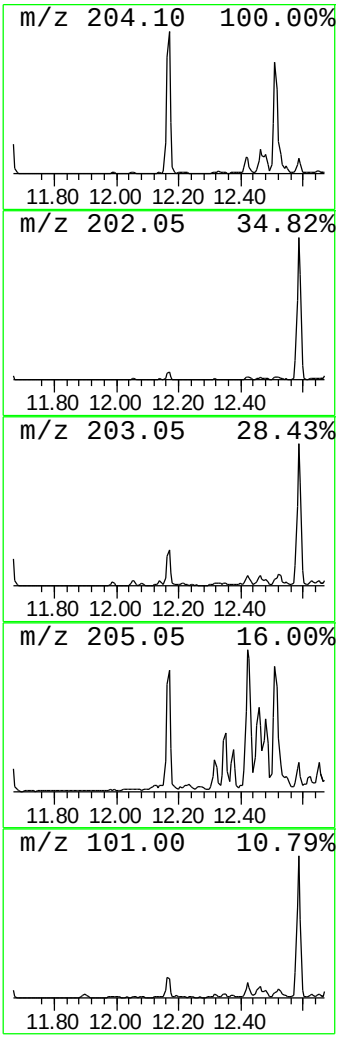
****

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	6.48 ng	755368	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	50
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

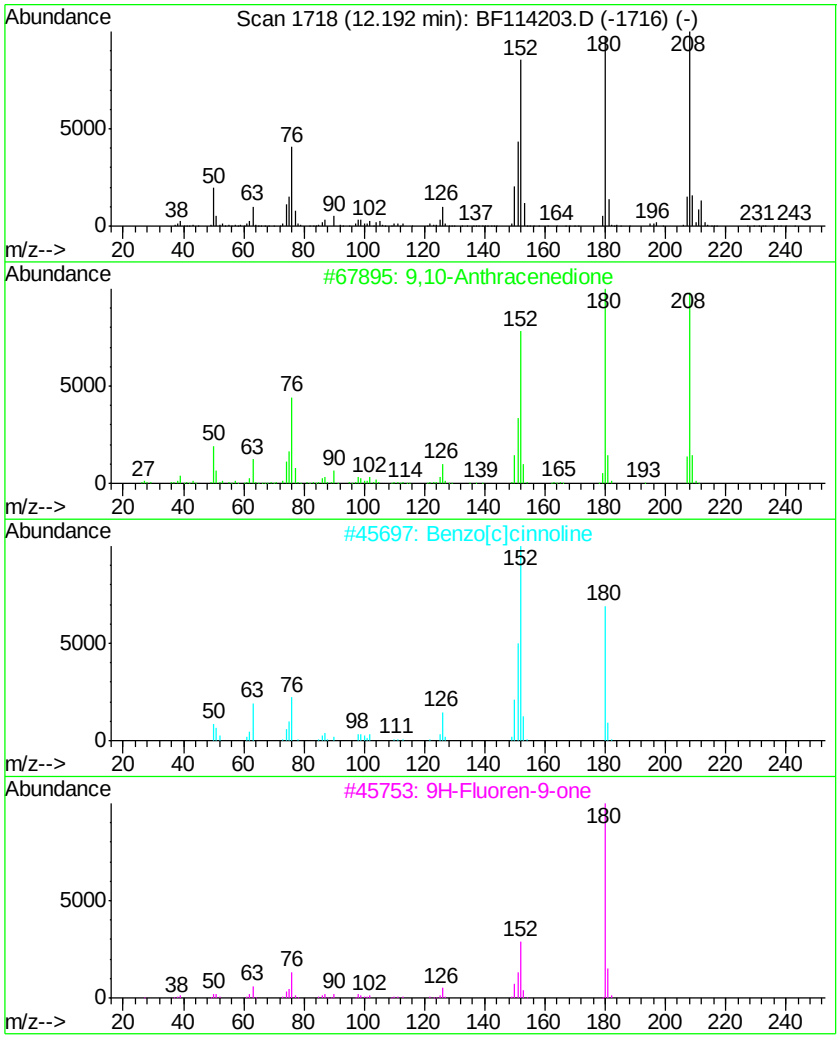
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

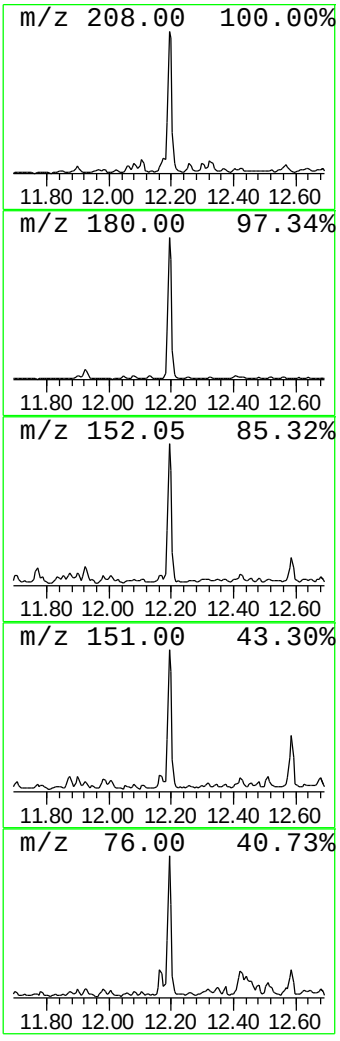
****

Peak Number 9 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	7.05 ng	820671	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

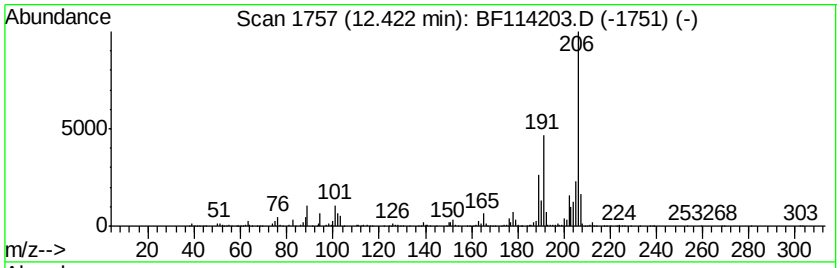
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

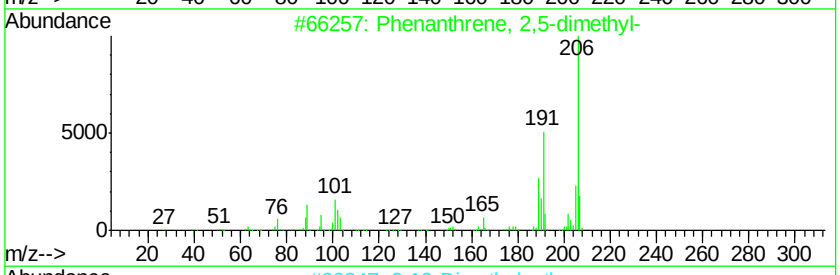
****

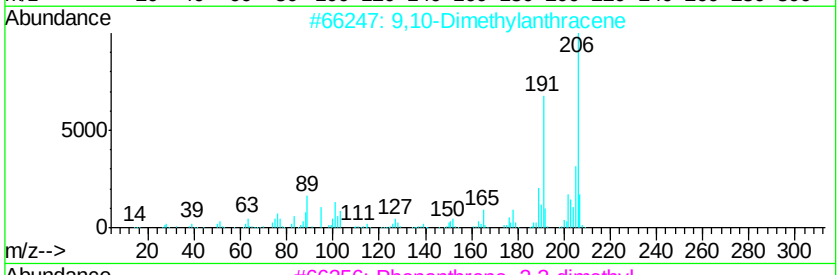
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

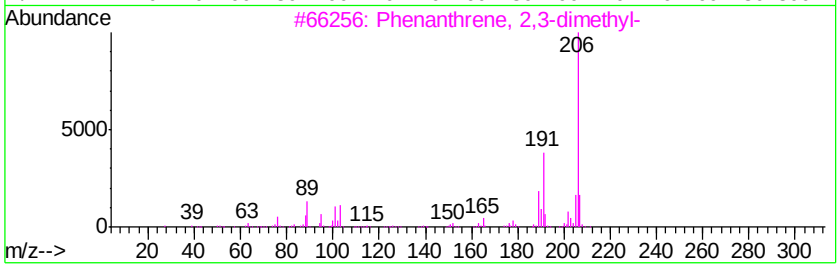
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	9.13 ng	1063060	Phenanthrene-d10	11.37

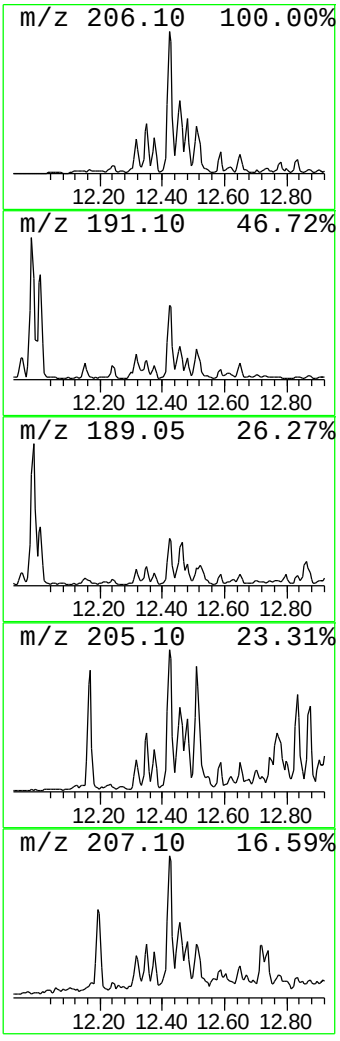
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90











Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

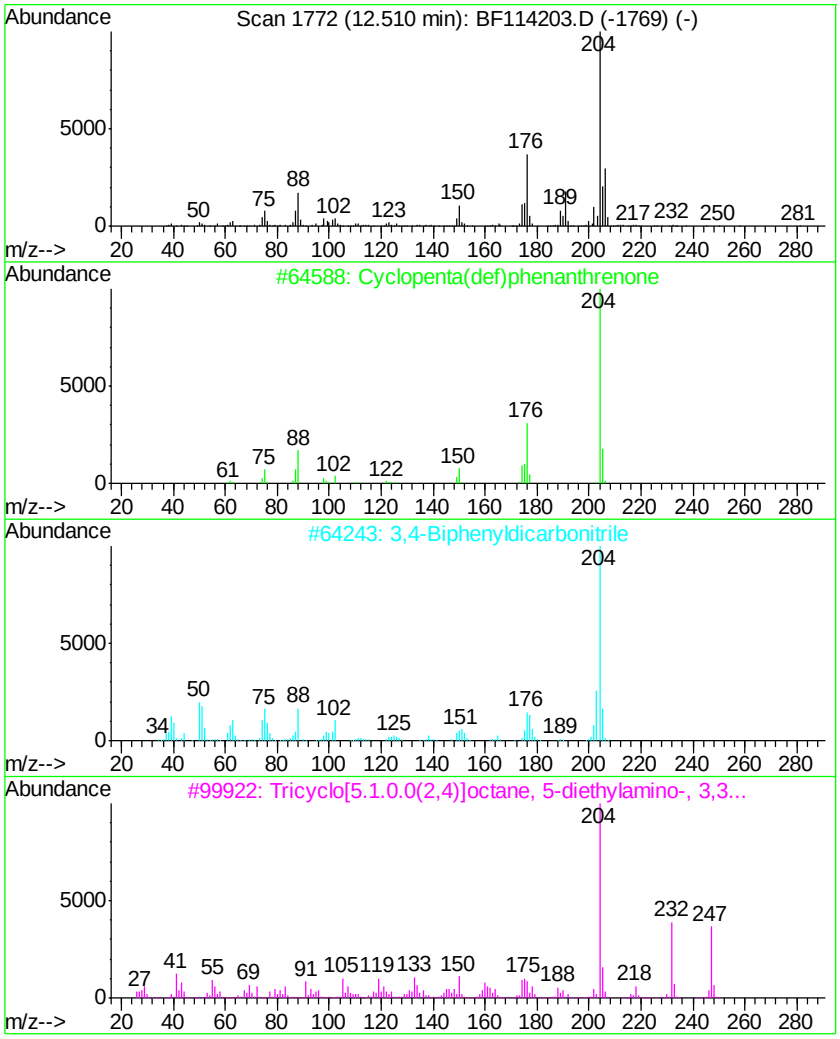
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

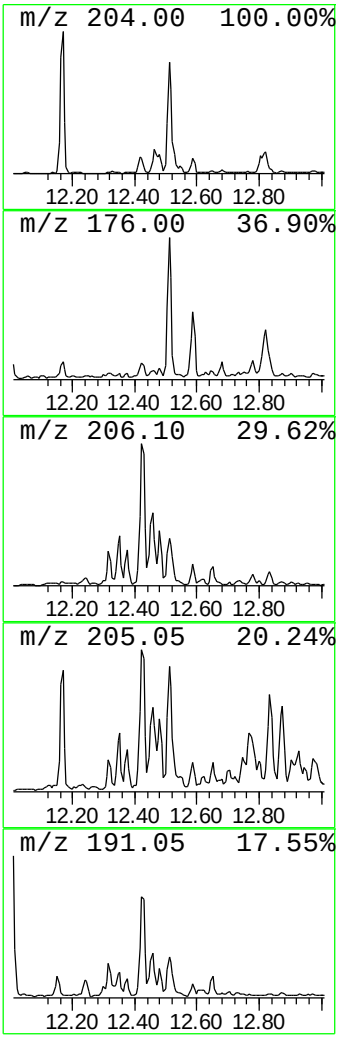
****

Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	7.11 ng	827914	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
3	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	53
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

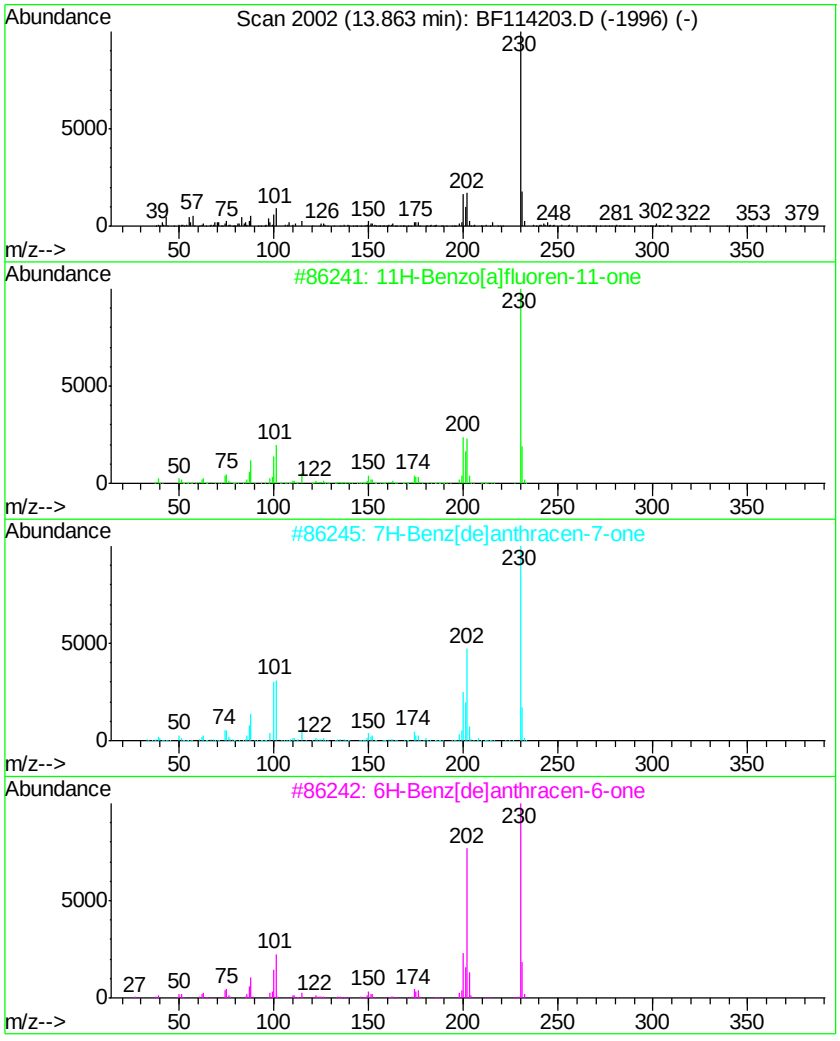
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

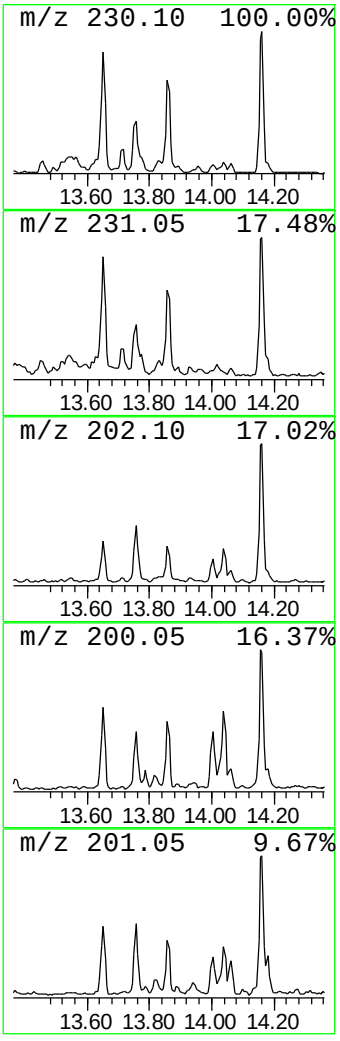
****

Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.86	5.11 ng	1178470	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	98
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	64
5	o-Terphenyl	230	C18H14	000084-15-1	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

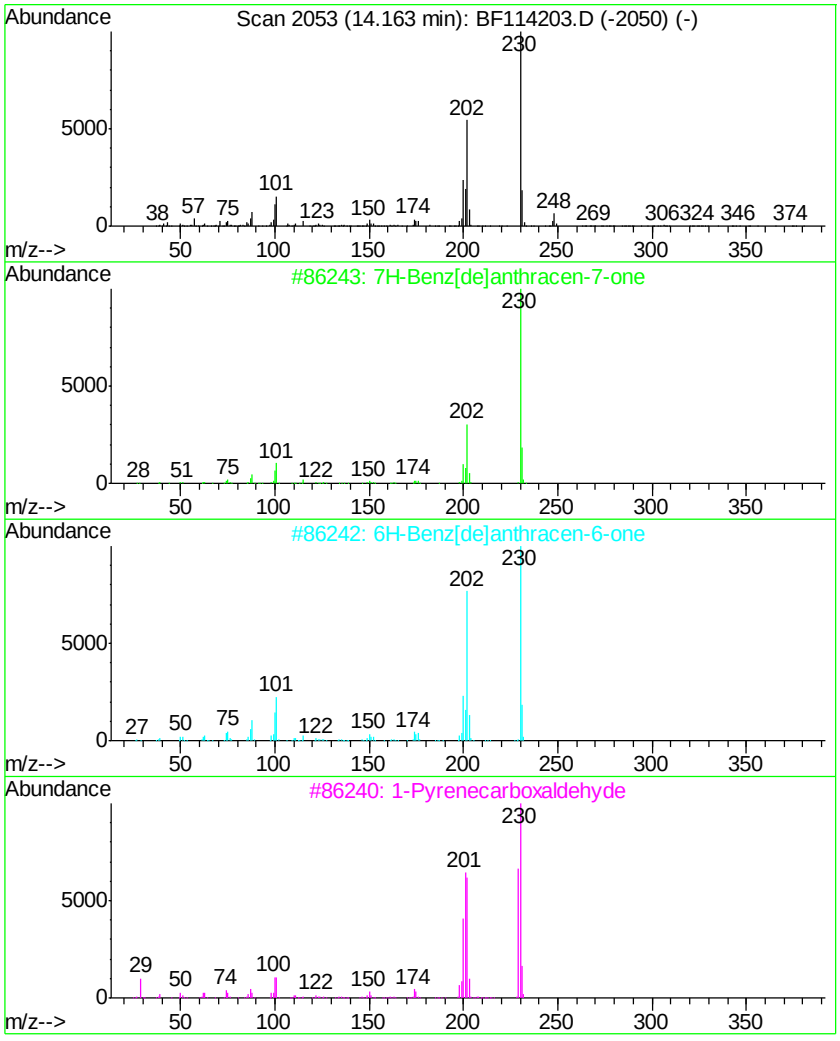
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

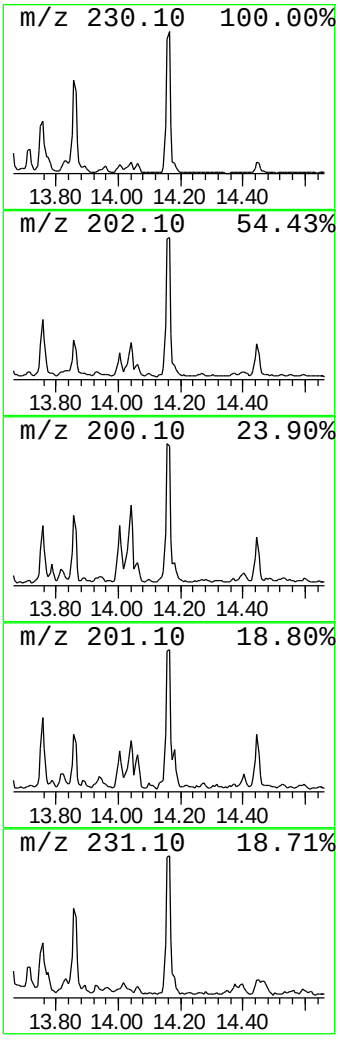
****

Peak Number 14 7H-Benz[de]anthracen-7-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.16	6.17 ng	1424590	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	97
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	94
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	89
4	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	80
5	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

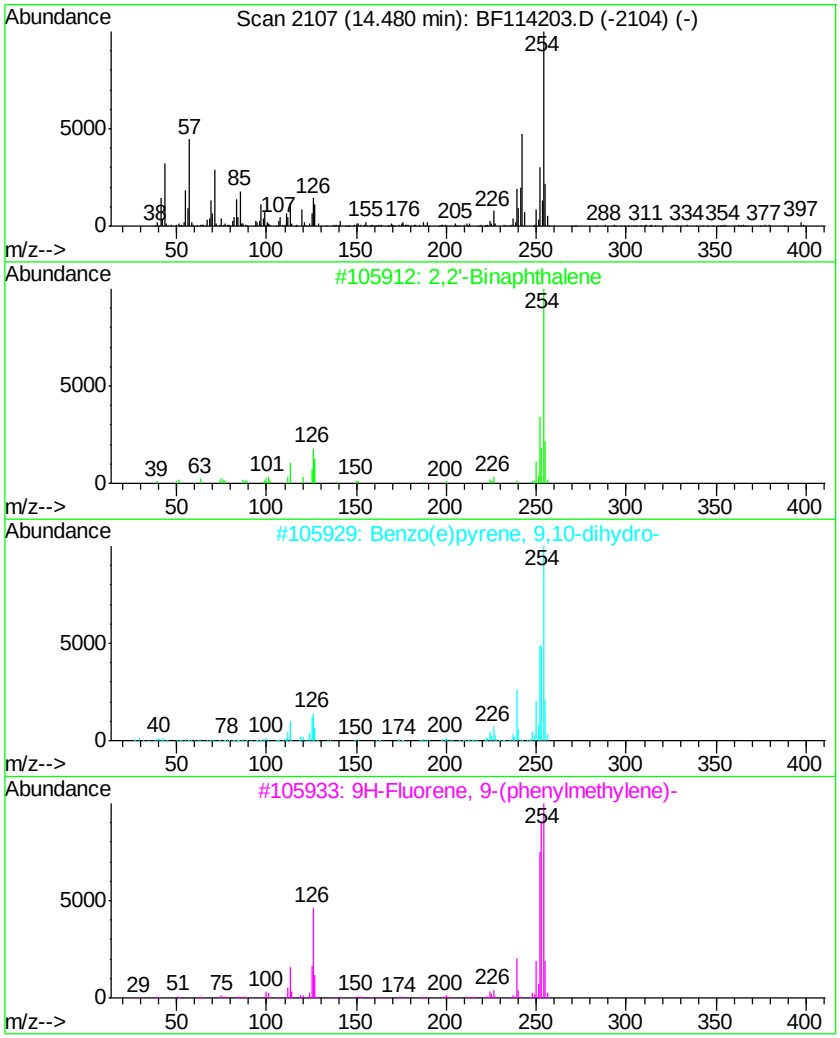
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

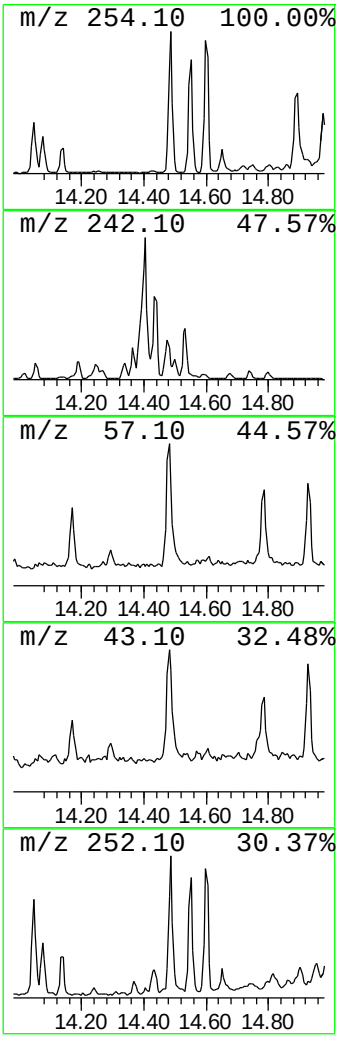
****

Peak Number 15 2,2'-Binaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	5.30 ng	1224030	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'-Binaphthalene	254	C20H14	000612-78-2	86
2	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	55
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	45
4	Phenanthrene, 2-phenyl-	254	C20H14	004325-77-3	43
5	(6-Isopropyl-3,4-bis(methylamino...	254	C15H18N4	014203-76-0	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

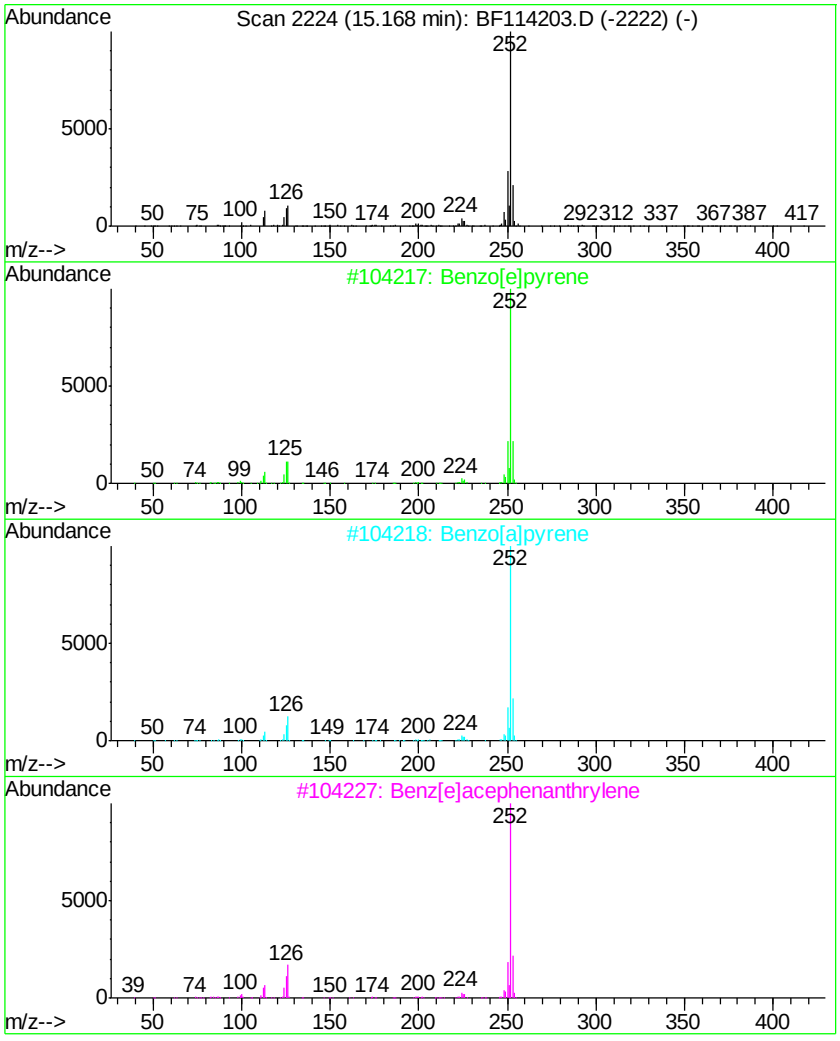
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

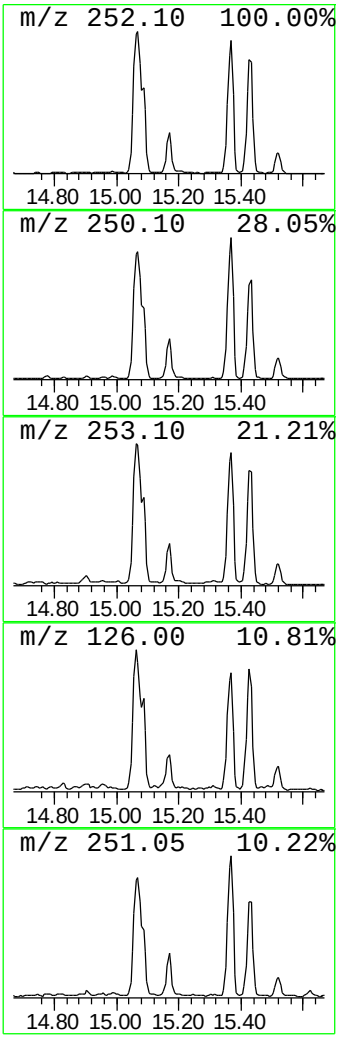
****

Peak Number 16 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	5.73 ng	552505	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

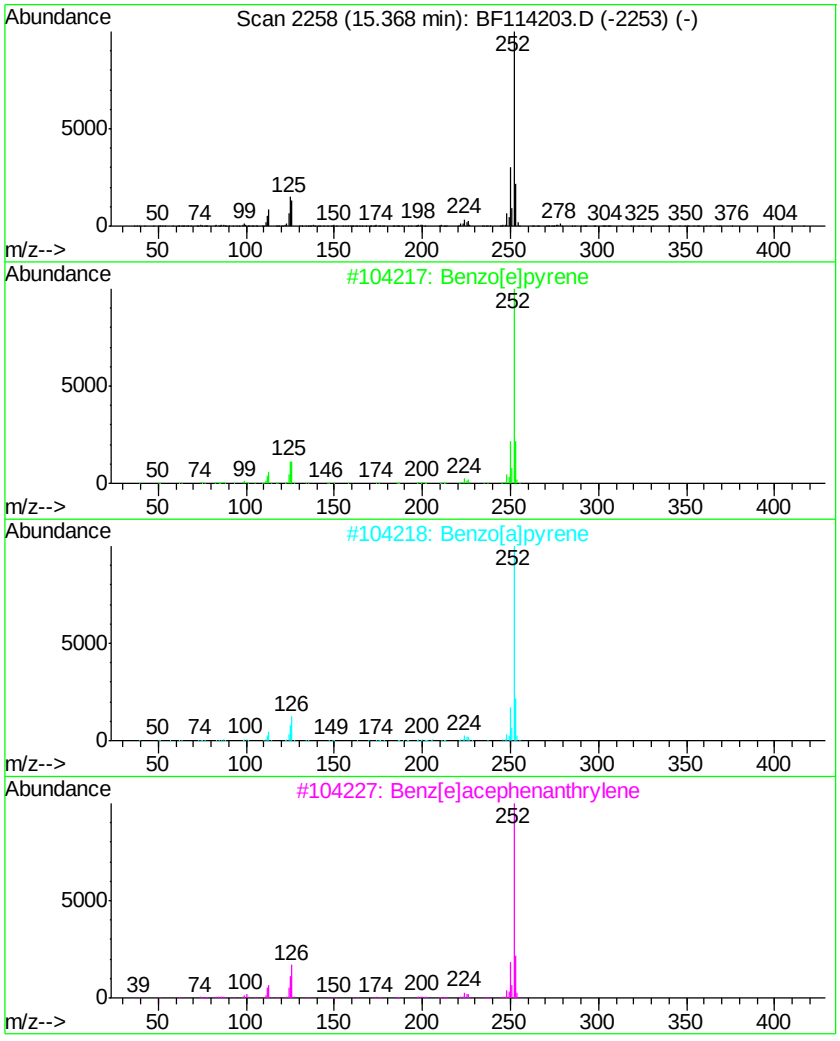
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

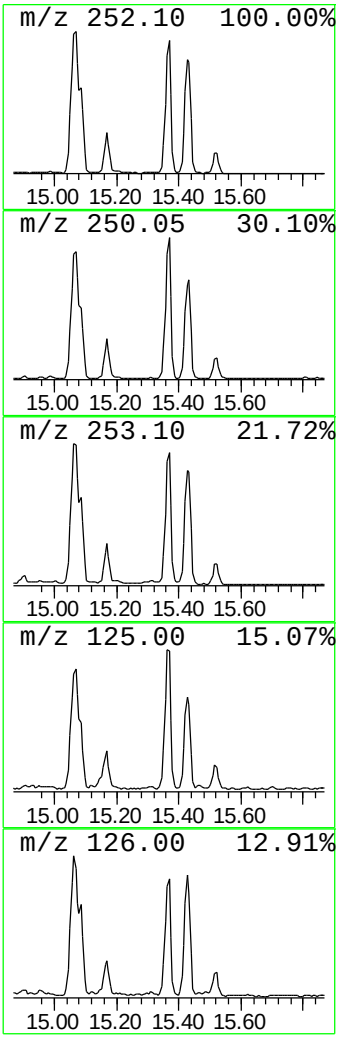
****

Peak Number 17 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	26.63 ng	2565440	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	97
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Perylene	252	C20H12	000198-55-0	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

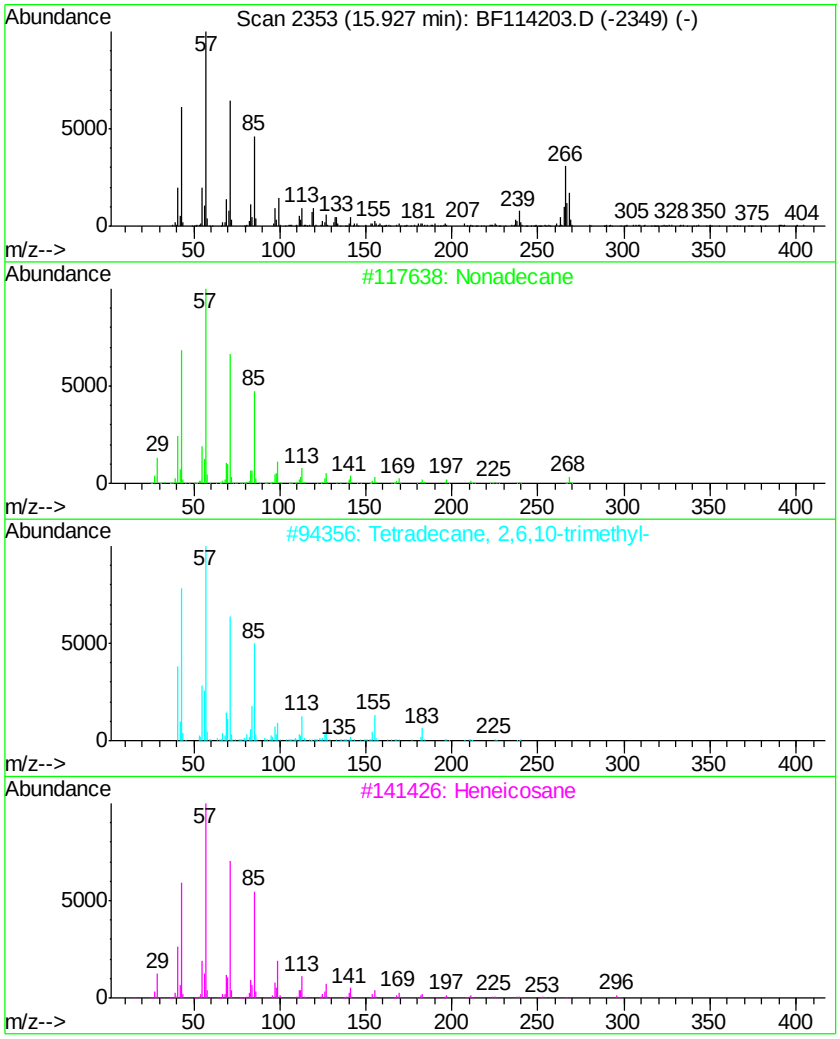
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

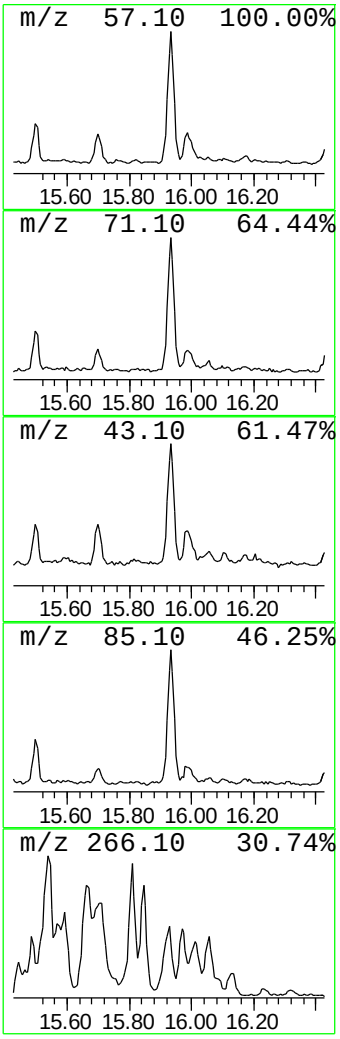
****

Peak Number 18 Nonadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.93	6.88 ng	663070	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	90
2	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	90
3	Heneicosane	296	C21H44	000629-94-7	87
4	Octacosane	394	C28H58	000630-02-4	87
5	Hexacosane	366	C26H54	000630-01-3	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

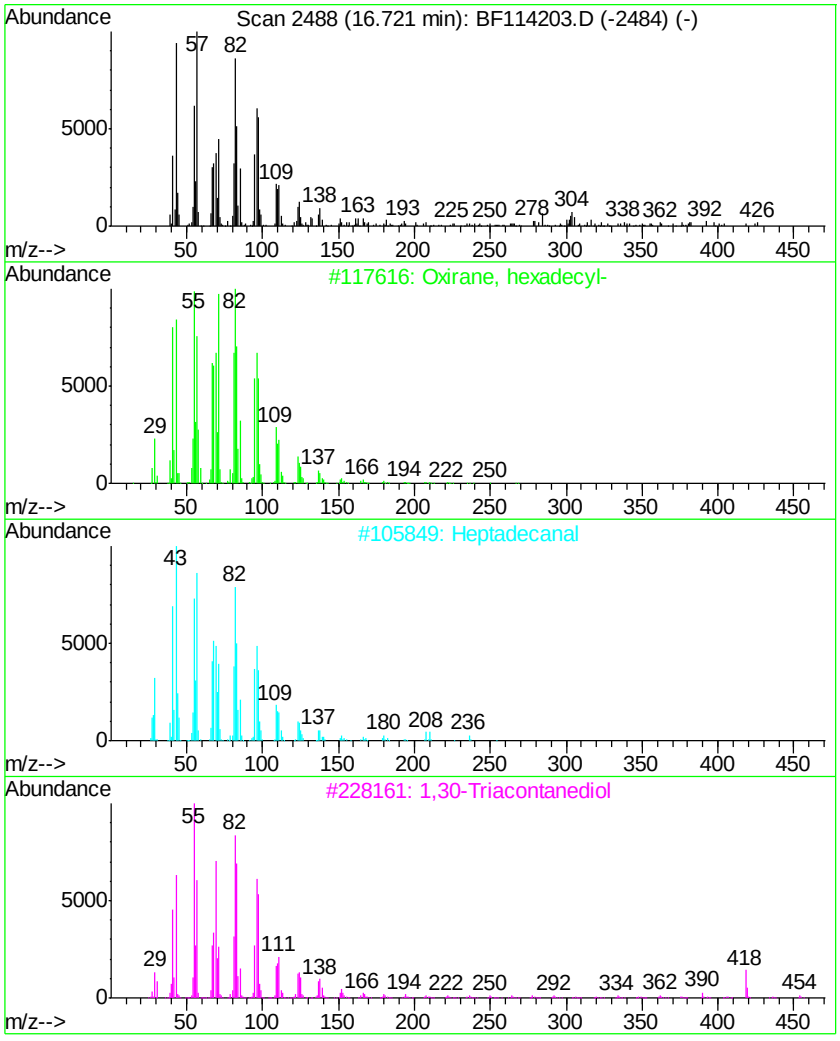
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

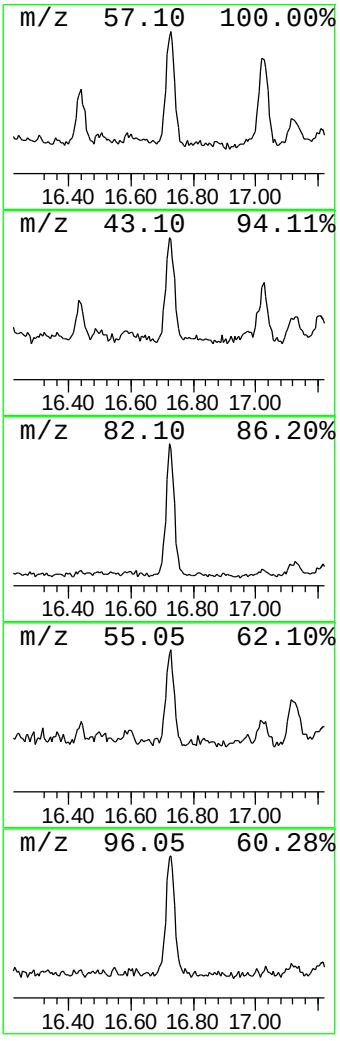
****

Peak Number 19 Oxirane, hexadecyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.72	5.09 ng	490333	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
2	Heptadecanal	254	C17H34O	1000376-70-0	86
3	1,30-Triacontanediol	454	C30H62O2	036645-68-8	83
4	1,19-Eicosadiene	278	C20H38	014811-95-1	70
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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

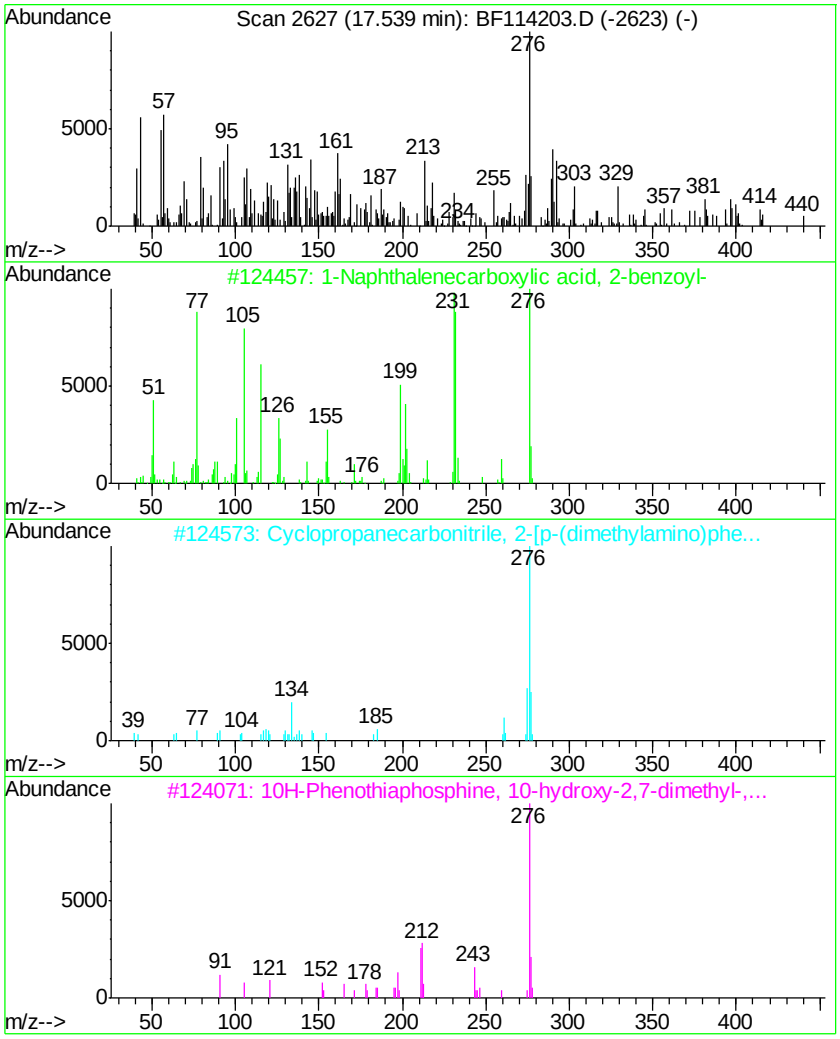
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

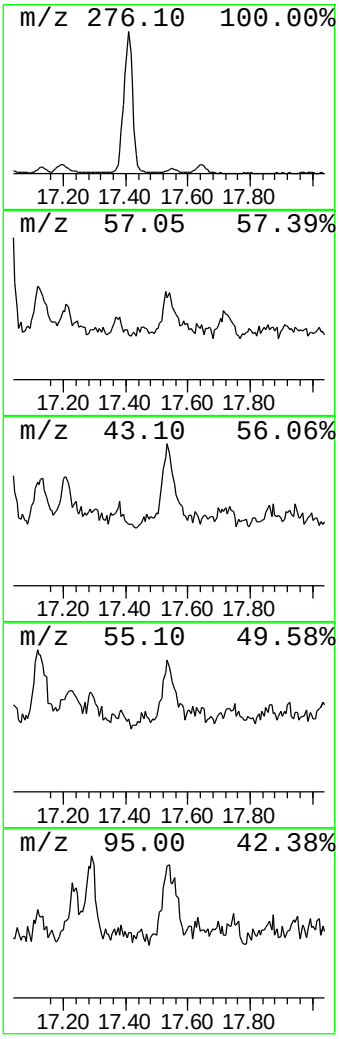
****

Peak Number 20 1-Naphthalenecarboxylic aci... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	5.85 ng	563435	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	59
2	Cyclopropanecarbonitrile, 2-[p-(...	276	C19H20N2	032589-51-8	42
3	10H-Phenothiaphosphine, 10-hydro...	276	C14H13O2PS	054964-91-9	38
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	30
5	2-Thiophenecarbaldehyde, 5-[5-(t...	276	C13H8OS3	1000217-28-5	30





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051219\
Data File : BF114203.D
Acq On : 12 May 2019 19:58
Operator : JU/SJ
Sample : K2768-09
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P026-SS015-0002-01

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
Butane, 2-methoxy...	2.12	15.2	ng	1283980	1	6.85	1687940	20.0
unknown6.63	6.63	62.9	ng	5307860	1	6.85	1687940	20.0
Phenanthrene, 2-m...	11.87	7.0	ng	820033	4	11.37	2329590	20.0
Anthracene, 2-met...	11.90	11.5	ng	1342120	4	11.37	2329590	20.0
Phenanthrene, 1-m...	11.98	10.9	ng	1270200	4	11.37	2329590	20.0
1H-Indene, 2-phenyl-	12.01	4.9	ng	575141	4	11.37	2329590	20.0
Naphthalene, 2-ph...	12.17	6.5	ng	755368	4	11.37	2329590	20.0
9,10-Anthracenedione	12.19	7.0	ng	820671	4	11.37	2329590	20.0
Phenanthrene, 2,5...	12.42	9.1	ng	1063060	4	11.37	2329590	20.0
Cyclopenta(def)ph...	12.51	7.1	ng	827914	4	11.37	2329590	20.0
11H-Benzo[a]fluor...	13.86	5.1	ng	1178470	5	14.02	4616920	20.0
7H-Benz[de]anthra...	14.16	6.2	ng	1424590	5	14.02	4616920	20.0
2,2'-Binaphthalene	14.48	5.3	ng	1224030	5	14.02	4616920	20.0
Benzo[e]pyrene	15.17	5.7	ng	552505	6	15.49	1926900	20.0
Benzo[j]fluoranthene	15.37	26.6	ng	2565440	6	15.49	1926900	20.0
Nonadecane	15.93	6.9	ng	663070	6	15.49	1926900	20.0
Oxirane, hexadecyl-	16.72	5.1	ng	490333	6	15.49	1926900	20.0
1-Naphthalenecarb...	17.54	5.8	ng	563435	6	15.49	1926900	20.0