LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.834	464	467	483	rVB	233260	348366	2.72%	0.240%
2	5.263	536	540	554	rBV	3353247	3640882	28.43%	2.505%
3	6.310	713	718	730	rBV	3519872	3903941	30.49%	2.686%
4	6.428	734	738	741	rBV	4141739	3725712	29.10%	2.563%
5	6.657	773	777	783	rBV	1127324	1088509	8.50%	0.749%
6	6.810	799	803	806	rBV	3242142	2788220	21.77%	1.918%
7	7.222	866	873	877	rBV	2386956	2564288	20.03%	1.764%
8	7.939	989	995	997	rBV	1688300	1623492	12.68%	1.117%
9	7.957	997	998	1002	rVB	1076694	758290	5.92%	0.522%
10	8.651	1110	1116	1119	rBV	1149676	974162	7.61%	0.670%
11	8.745	1127	1132	1136	rVB	930907	862172	6.73%	0.593%
12	9.016	1171	1178	1181	rBV	4367307	3718138	29.04%	2.558%
13	9.110	1187	1194	1200	rBV2	361204	435043	3.40%	0.299%
14	9.275	1217	1222	1226	rBV	482834	660864	5.16%	0.455%
15	9.351	1230	1235	1237	rVV	841871	891297	6.96%	0.613%
16	9.375	1237	1239	1242	rVV	649935	518158	4.05%	0.356%
17	9.410	1242	1245	1248	rVV	485268	404907	3.16%	0.279%
18	9.463	1251	1254	1260	rVV	442125	552436	4.31%	0.380%
19	9.551	1264	1269	1273	rVB	829389	778484	6.08%	0.536%
20	9.686	1284	1292	1295	rBV3	1640609	1742066	13.60%	1.198%
21	9.722	1295	1298	1302	rVB	1907775	1573813	12.29%	1.083%
22	9.892	1323	1327	1330	rVV	2190877	1870489	14.61%	1.287%
23	9.933	1331	1334	1341	rVB	293076	335159	2.62%	0.231%
24	10.004	1343	1346	1349	rBV3	288396	293059	2.29%	0.202%
25	10.092	1357	1361	1363	rBV	279429	314433	2.46%	0.216%
26	10.233	1381	1385	1391	rVB	2138205	2060081	16.09%	1.417%
27	10.392	1409	1412	1416	rVB	786751	671629	5.24%	0.462%
28	10.480	1420	1427	1430	rVV	2465041	2684386	20.96%	1.847%
29	10.522	1430	1434	1437	rVB2	217158	262018	2.05%	0.180%
30	10.598	1443	1447	1454	rVB2	366034	495940	3.87%	0.341%
31	10.780	1471	1478	1481	rBV3	431308	594477	4.64%	0.409%
32	10.910	1494	1500	1502	rBV3	325516	379330	2.96%	0.261%
33	10.933	1502	1504	1506	rVV	296796	284221	2.22%	0.196%
34	10.980	1509	1512	1516	rVB	1045067	961456	7.51%	0.661%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.022	1516	1519	1521	rBV	345972	368608	2.88%	0.254%
36	11.045	1521	1523	1524	rVV	361952	291220	2.27%	0.200%
37	11.069	1524	1527	1532	rVB	1191942	1110734	8.67%	0.764%
38	11.210	1540	1551	1554	rBV2	7812780	12805279	100.00%	8.809%
39	11.251	1554	1558	1561	rVV	3376894	3279097	25.61%	2.256%
40	11.280	1561	1563	1566	rVV2	343570	354970	2.77%	0.244%
41	11.410	1578	1585	1592	rBV2	1384057	1881677	14.69%	1.294%
42	11.469	1592	1595	1598	rVV3	397190	421564	3.29%	0.290%
43	11.510	1598	1602	1605	rVB3	287496	355528	2.78%	0.245%
44	11.674	1625	1630	1632	rVV	1183759	1207846	9.43%	0.831%
45	11.698	1632	1634	1638	rVB	1668903	1535831	11.99%	1.057%
46	11.745	1638	1642	1645	rBV	676636	690933	5.40%	0.475%
47	11.780	1645	1648	1651	rVV	1687887	1964997	15.35%	1.352%
48	11.804	1651	1652	1657	rVB	882855	588295	4.59%	0.405%
49	11.963	1676	1679	1682	rVV	973256	933846	7.29%	0.642%
50	11.998	1682	1685	1689	rVB	804080	687930	5.37%	0.473%
51	12.110	1700	1704	1708	rBV	240797	321489	2.51%	0.221%
52	12.221	1719	1723	1725	rBV	541181	585462	4.57%	0.403%
53	12.257	1725	1729	1732	rVV2	511793	690772	5.39%	0.475%
54	12.316	1735	1739	1745	rVB2	606567	708802	5.54%	0.488%
55	12.398	1745	1753	1756	rBV	7144947	9778912	76.37%	6.727%
56	12.533	1771	1776	1778	rBV	700947	731940	5.72%	0.504%
57	12.627	1784	1792	1794	rBV2	6304777	9615836	75.09%	6.615%
58	12.663	1794	1798	1805	rVB3	489241	671584	5.24%	0.462%
59	12.727	1805	1809	1811	rBV	630912	678484	5.30%	0.467%
60	12.757	1811	1814	1820	rVB2	2593139	2972250	23.21%	2.045%
61	12.833	1820	1827	1830	rBV2	624873	1067491	8.34%	0.734%
62	12.916	1837	1841	1843	rBV3	511054	714104	5.58%	0.491%
63	12.939	1843	1845	1848	rVB	1046008	823178	6.43%	0.566%
64	13.004	1853	1856	1858	rVB	452936	349188	2.73%	0.240%
65	13.039	1858	1862	1866	rBV2	804165	880243	6.87%	0.606%
66	13.133	1875	1878	1880	rBV	421660	333451	2.60%	0.229%
67	13.163	1880	1883	1887	rBV2	445931	427955	3.34%	0.294%
68	13.333	1906	1912	1914	rBV5	210496	377759	2.95%	0.260%
69	13.451	1929	1932	1936	rVV	943656	884986	6.91%	0.609%
70	13.557	1945	1950	1952	rBV	1044137	1094489	8.55%	0.753%
71	13.580	1952	1954	1956	rVV	861710	734218	5.73%	0.505%

LSC Area Percent Report

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Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.604	1956	1958	1964	rVV3	706928	1195799	9.34%	0.823%
73	13.657	1964	1967	1971	rVB	1019324	1087664	8.49%	0.748%
74	13.804	1985	1992	1996	rBV2	3801641	6976967	54.49%	4.800%
75	13.839	1996	1998	2001	rVV	3668813	3621786	28.28%	2.492%
76	13.915	2005	2011	2013	rVV	551811	639014	4.99%	0.440%
77	13.974	2016	2021	2024	rVV5	267847	548315	4.28%	0.377%
78	13.998	2024	2025	2027	rVV	314380	262687	2.05%	0.181%
79	14.039	2030	2032	2034	rVV	424676	356131	2.78%	0.245%
80	14.157	2049	2052	2054	rVV	338188	381633	2.98%	0.263%
81	14.192	2054	2058	2061	rVV	861848	1000680	7.81%	0.688%
82	14.221	2061	2063	2068	rVV2	416383	646404	5.05%	0.445%
83	14.274	2068	2072	2076	rVV2	363920	696101	5.44%	0.479%
84	14.315	2076	2079	2081	rVV2	483963	509410	3.98%	0.350%
85	14.333	2081	2082	2085	rVV	325738	299842	2.34%	0.206%
86	14.386	2089	2091	2094	rVV2	294543	296613	2.32%	0.204%
87	14.504	2108	2111	2119	rVB5	334166	551897	4.31%	0.380%
88	14.568	2119	2122	2129	rBV4	146007	259328	2.03%	0.178%
89	14.668	2136	2139	2142	rBV2	432963	438329	3.42%	0.302%
90	14.827	2159	2166	2168	rBV	3182328	5127447	40.04%	3.527%
91	14.915	2178	2181	2184	rVB	691605	663860	5.18%	0.457%
92	15.098	2207	2212	2218	rVB	1830473	2433674	19.01%	1.674%
93	15.162	2218	2223	2226	rVV	2501400	3035187	23.70%	2.088%
94	15.209	2227	2231	2234	rVV	748525	1006515	7.86%	0.692%
95	15.239	2234	2236	2245	rVB	923549	1039012	8.11%	0.715%
96	16.556	2453	2460	2466	rBV	989554	1868634	14.59%	1.286%
97	16.703	2480	2485	2490	rBV	172007	334361	2.61%	0.230%
98	16.962	2521	2529	2536	rVB	736139	1488072	11.62%	1.024%
99	17.168	2559	2564	2574	rVB2	188346	446723	3.49%	0.307%
100	18.986	2869	2873	2884	rVB2	173362	466992	3.65%	0.321%

Sum of corrected areas: 145359943

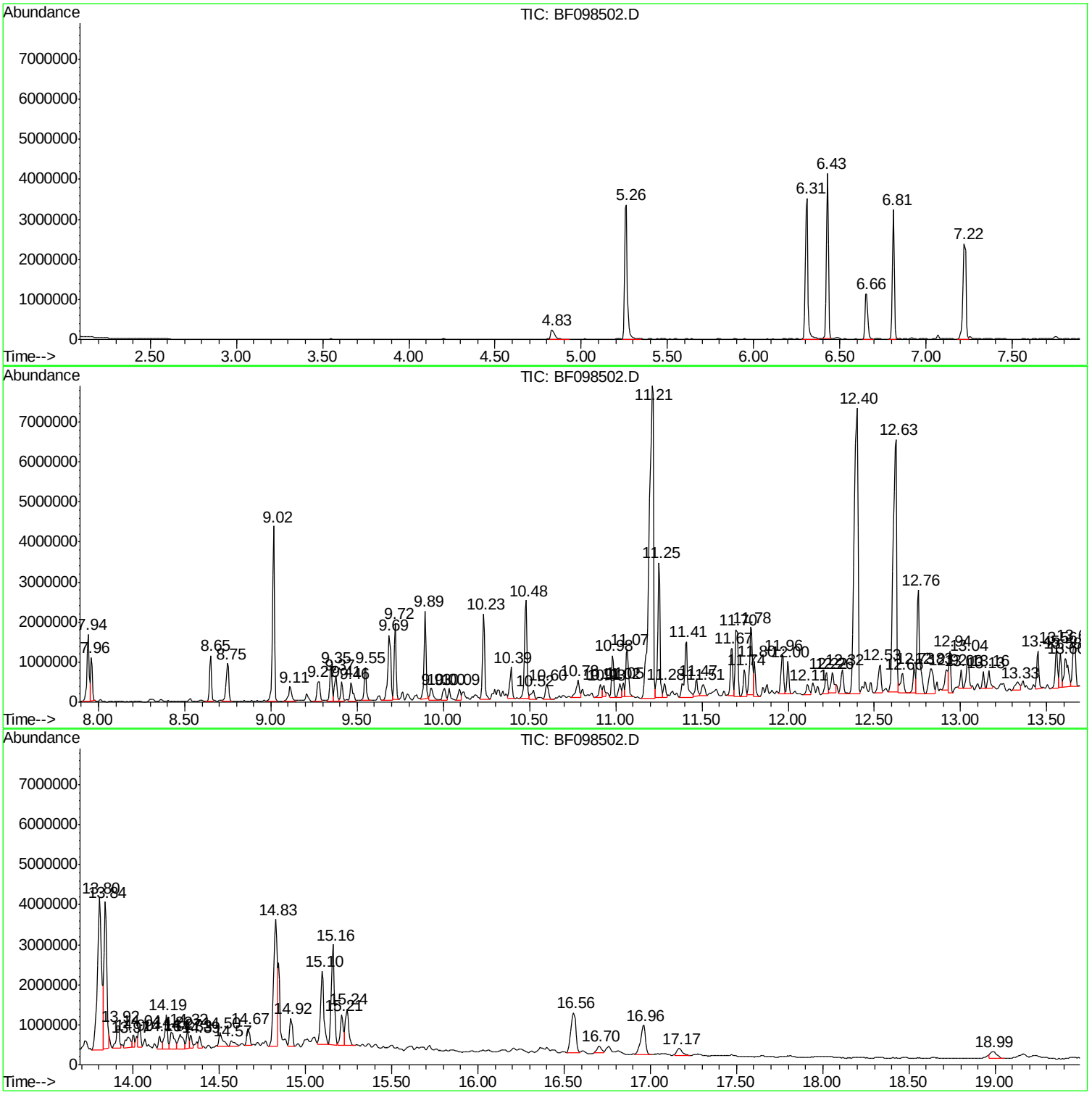
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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 : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

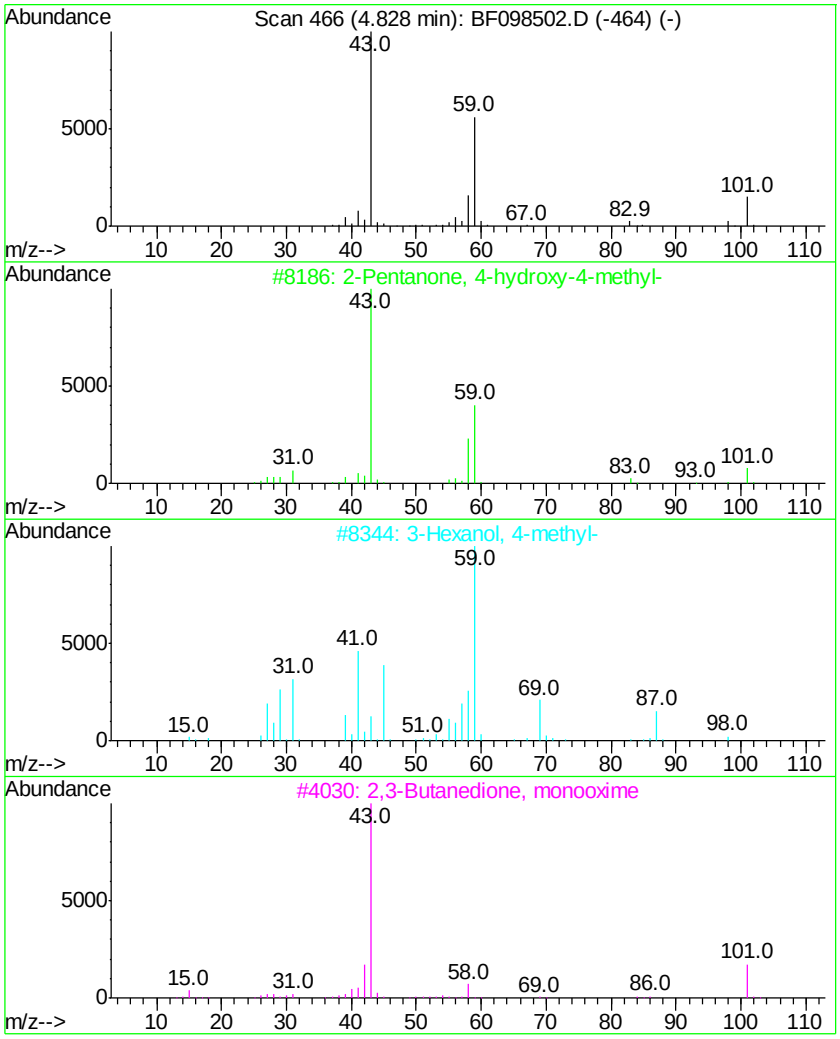
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

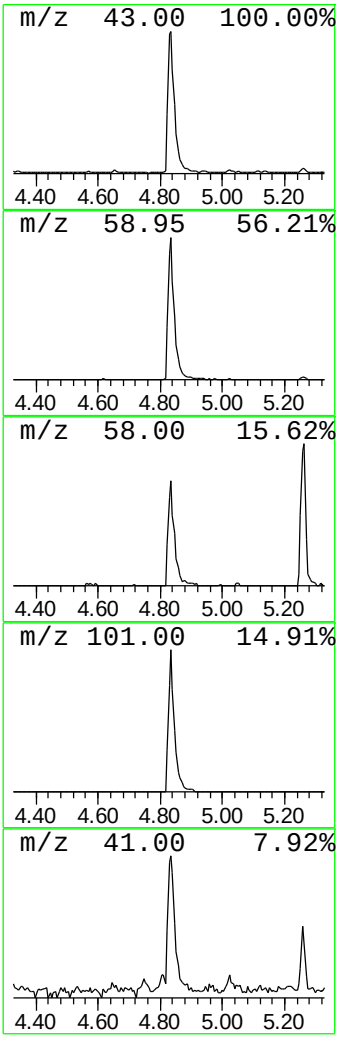
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.83	6.40 ng	348366	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	Acetone	58	C3H6O	000067-64-1	9





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
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Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

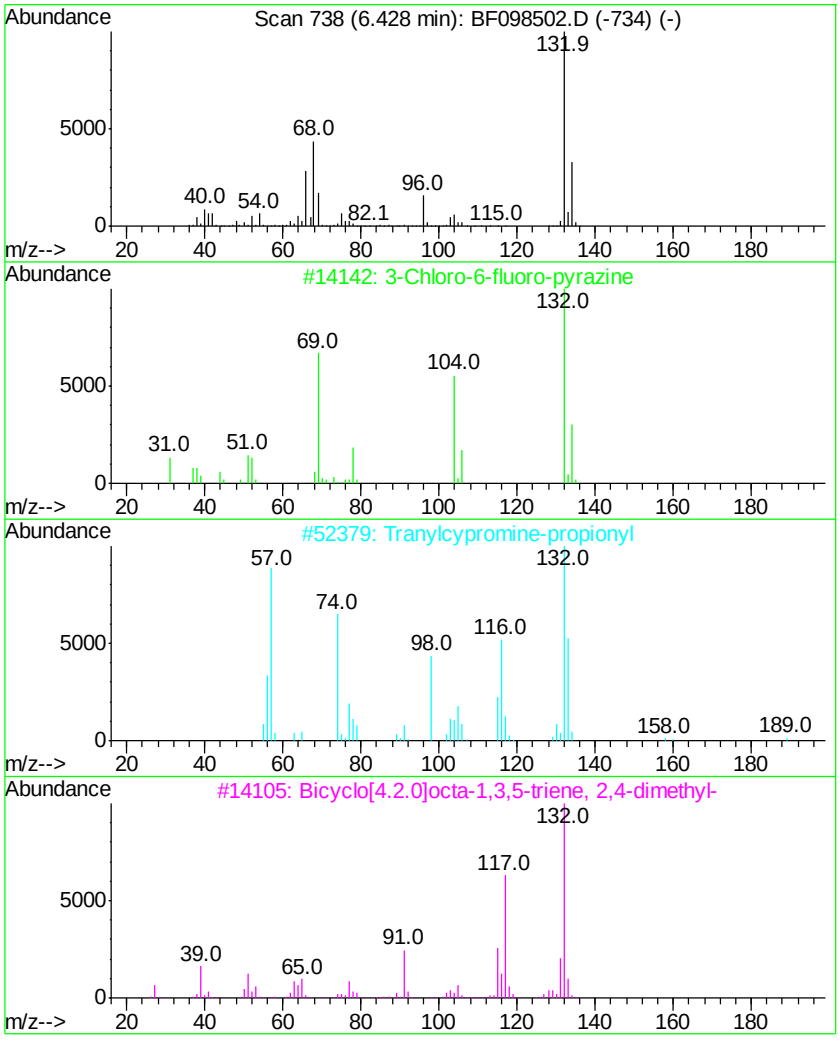
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

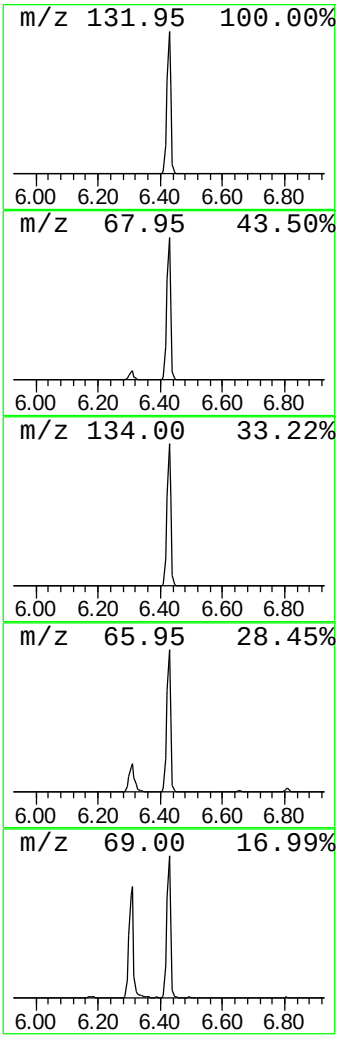
****

Peak Number 2 unknown6.43 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.43	68.46 ng	3725710	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

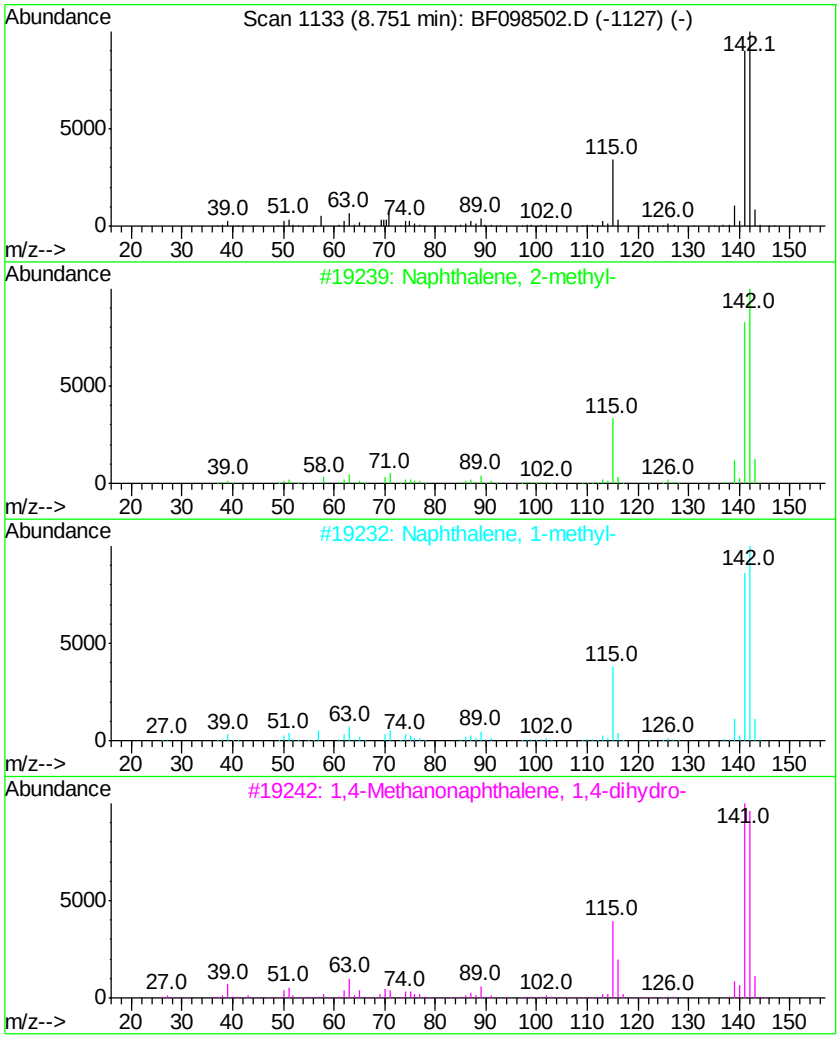
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

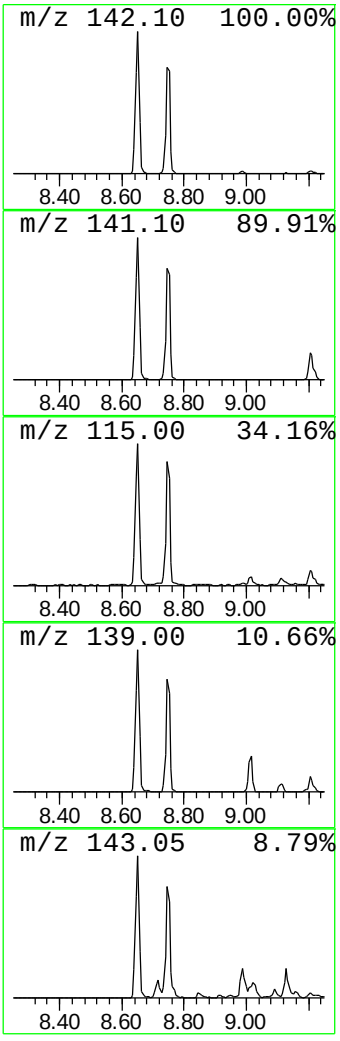
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	10.62 ng	862172	Naphthalene-d8	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	94
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	72





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

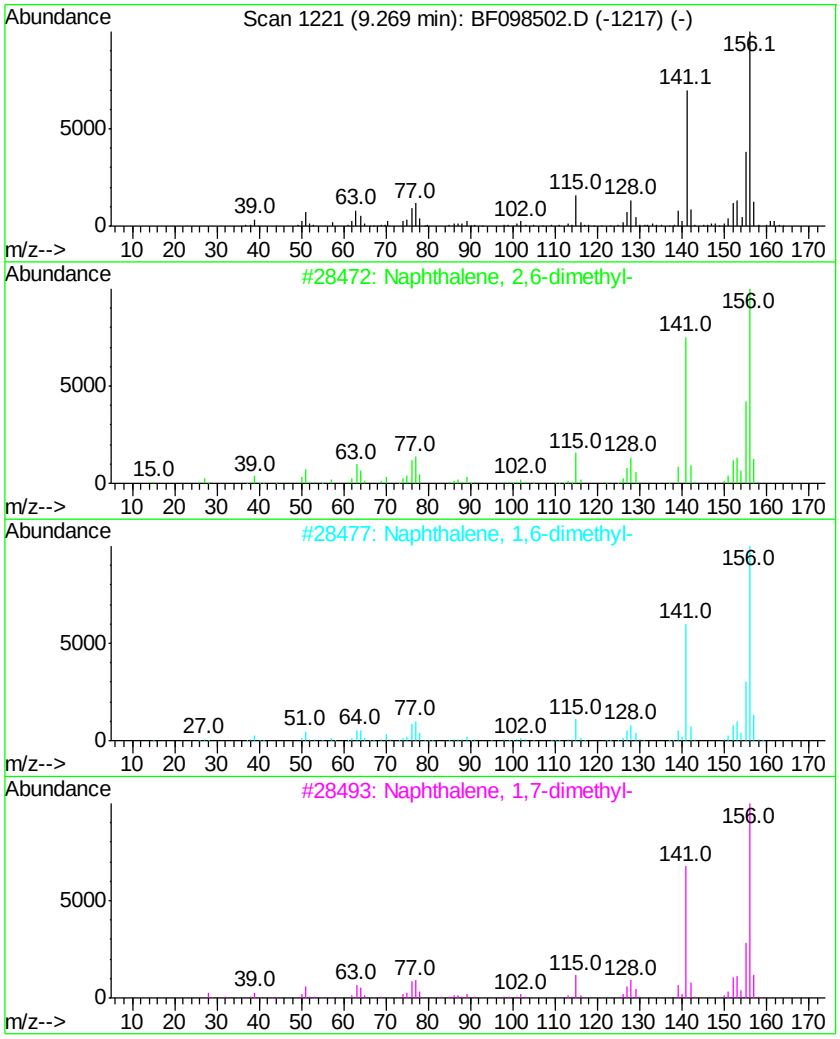
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

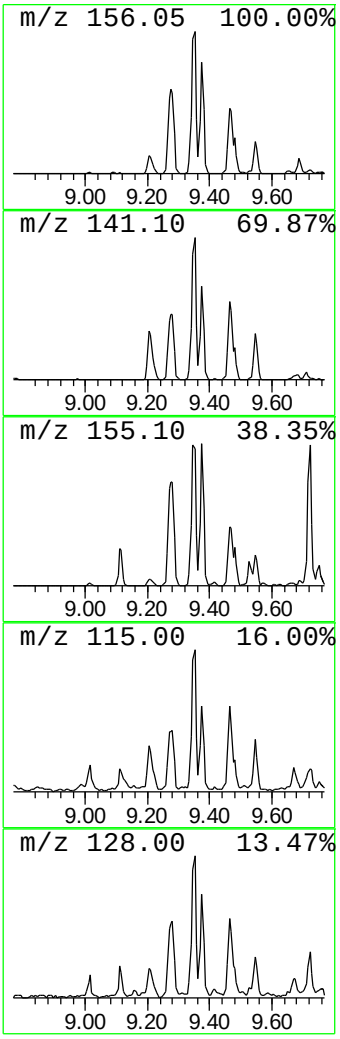
****

Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.27	7.59 ng	660864	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

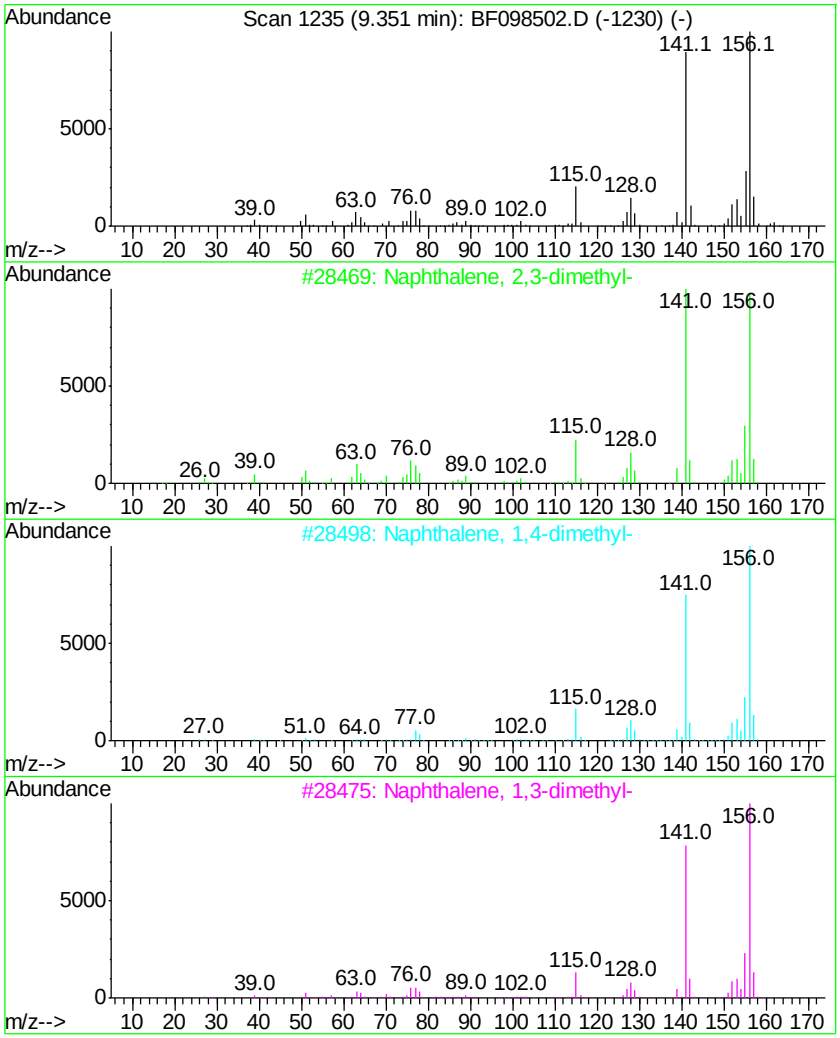
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

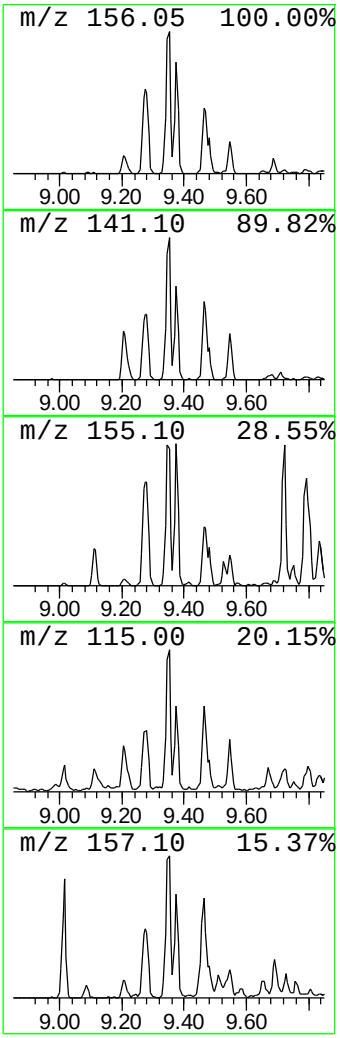
****

Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	10.23 ng	891297	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





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Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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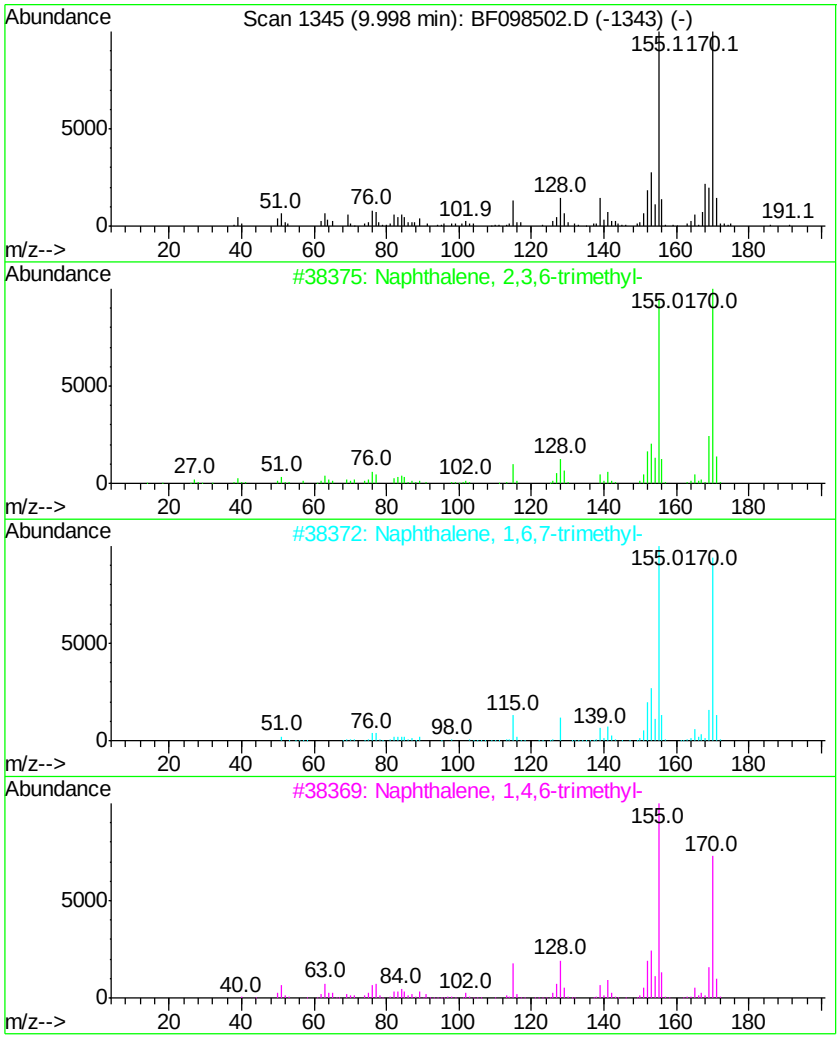
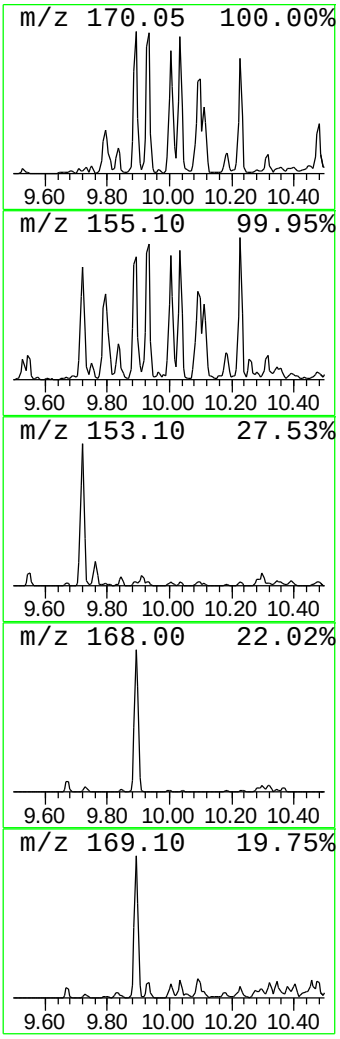
Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	3.36 ng	293059	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	98
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	93





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Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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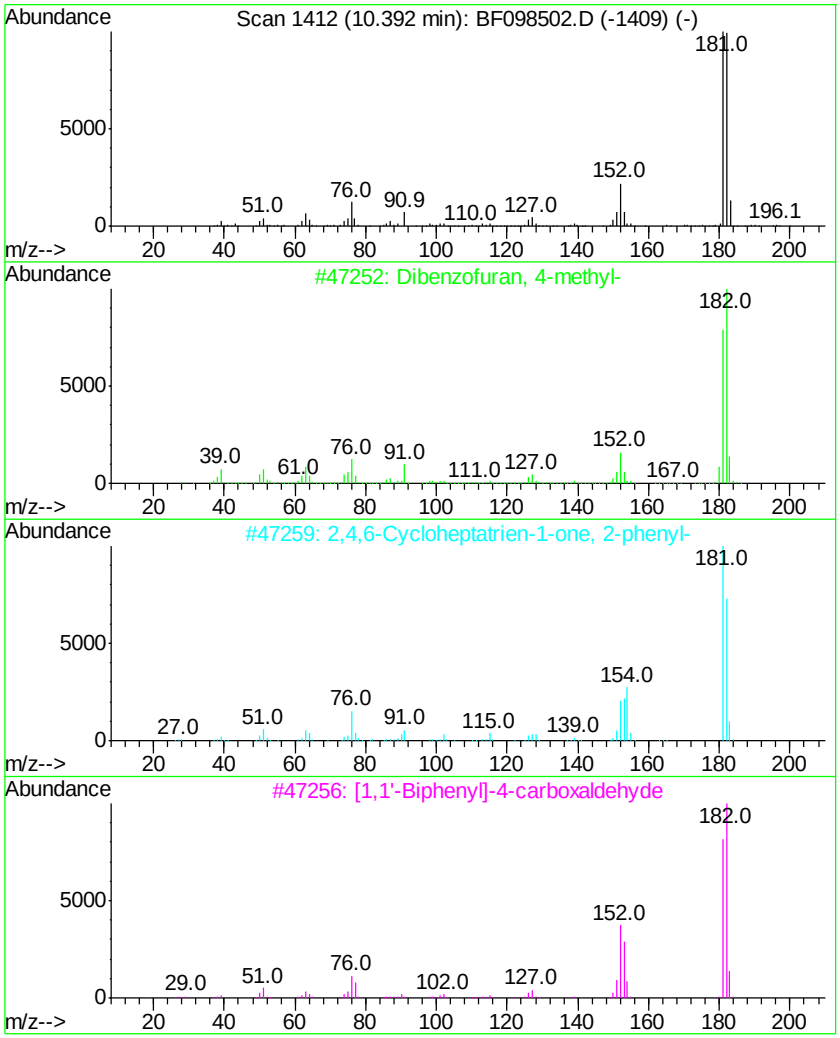
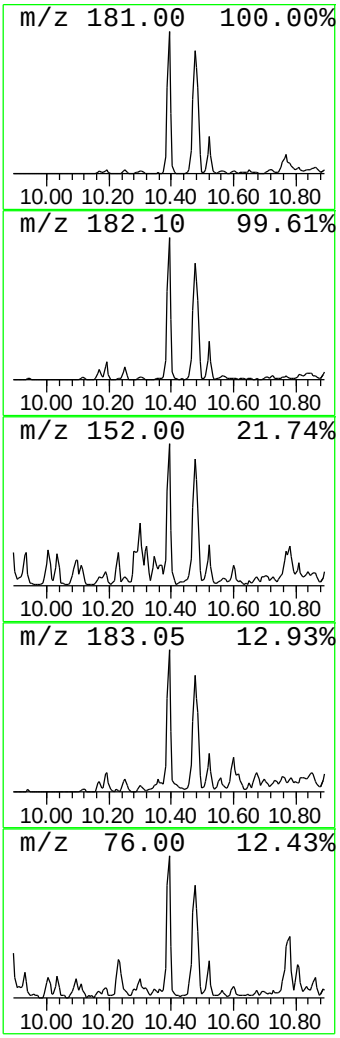
Peak Number 10 Dibenzofuran, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.39	7.71 ng	671629	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	89
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





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Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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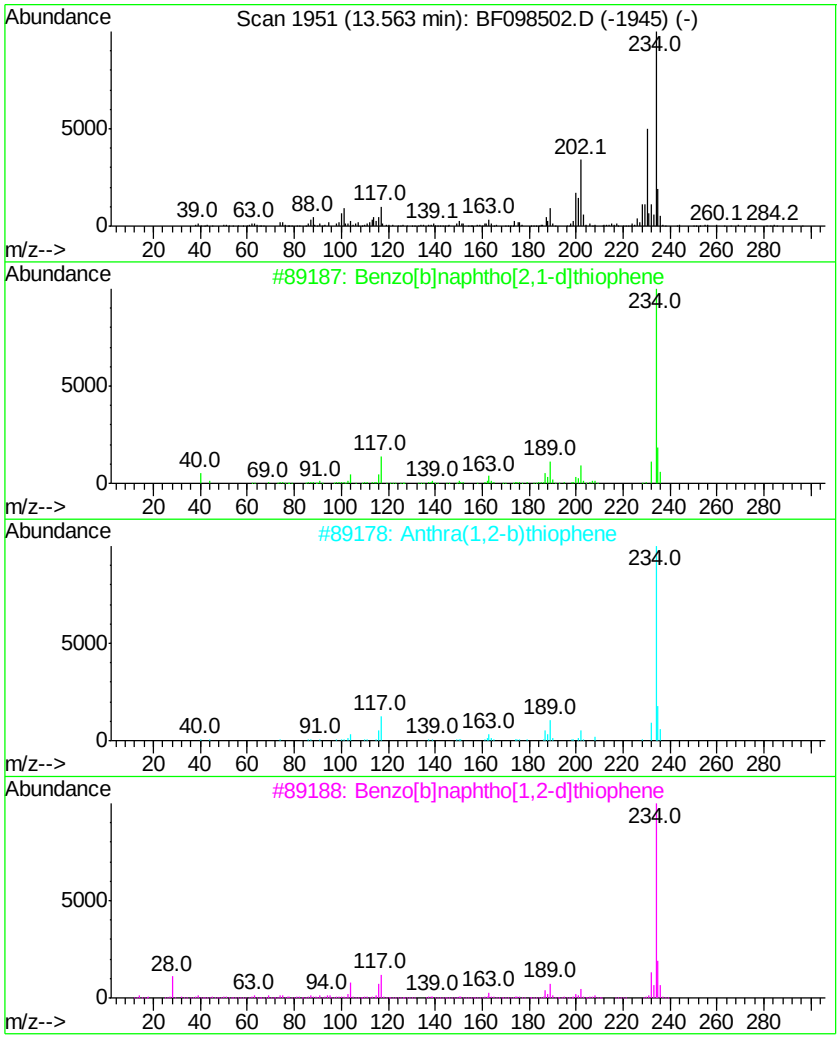
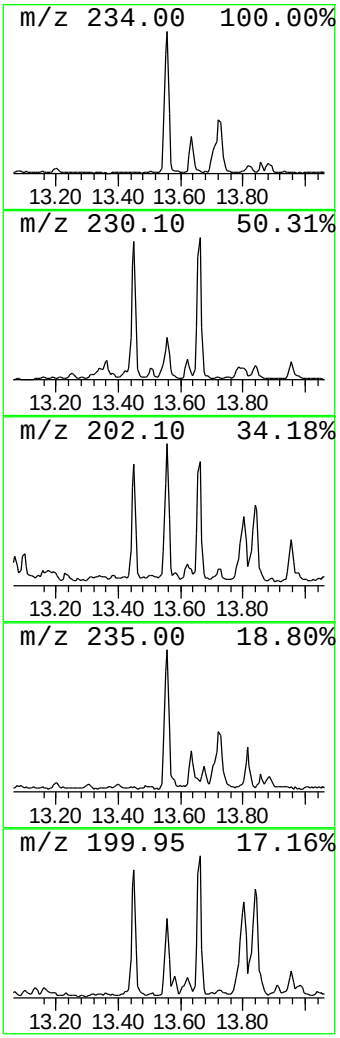
Peak Number 11 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.56	3.14 ng	1094490	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	83
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70
5	4-Pyridinamine, N-(1-naphthaleny...	234	C16H14N2	1000317-32-0	43





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Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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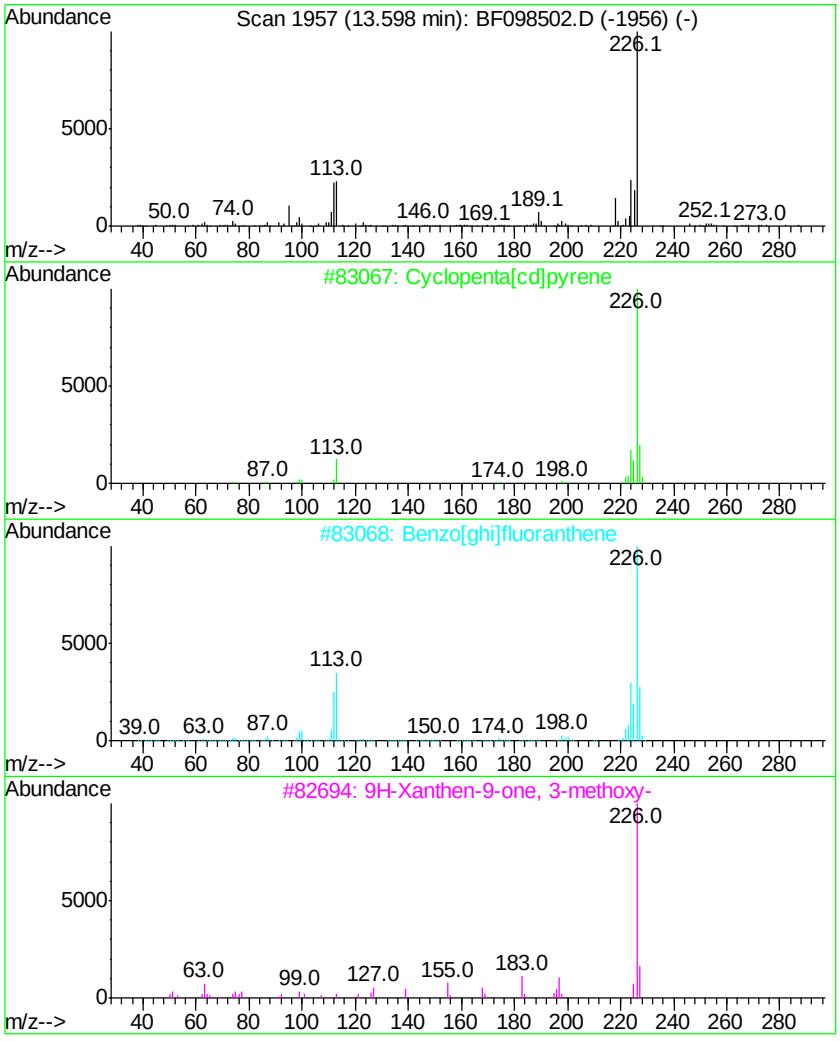
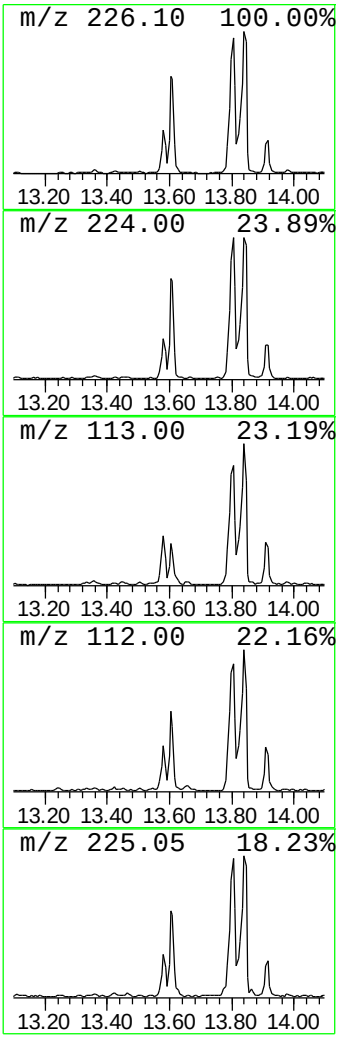
Peak Number 12 Cyclopenta[cd]pyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	3.43 ng	1195800	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	52
3	9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	38
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	36
5	2-Thiazolamine, 4-(1-naphthalenyl)-	226	C13H10N2S	056503-96-9	28





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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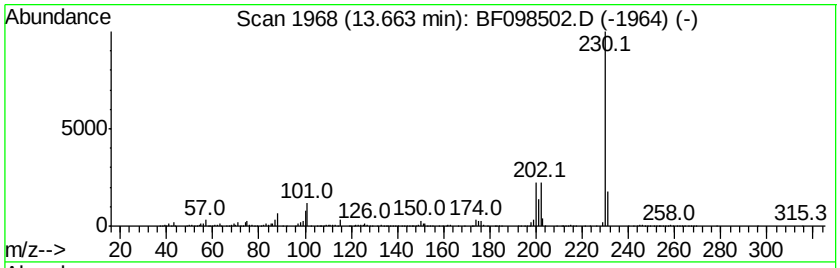
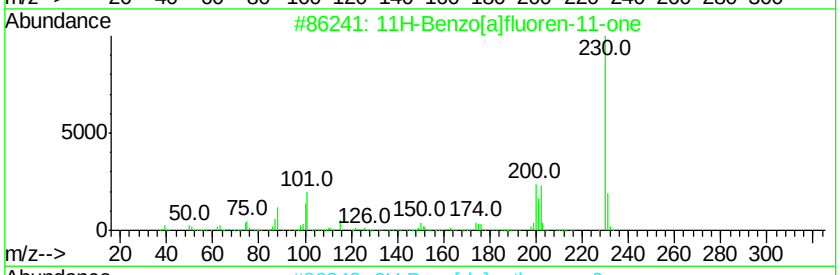
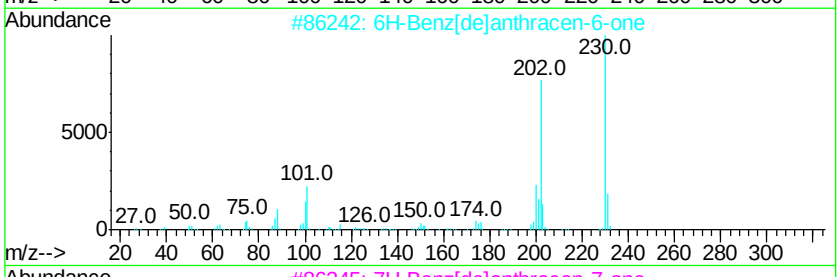
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 20

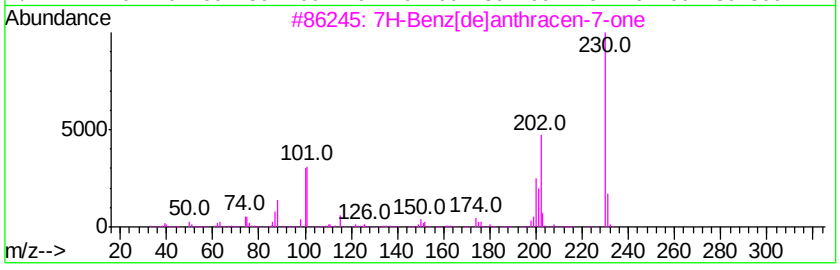
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.66	3.12 ng	1087660	Chrysene-d12	13.82

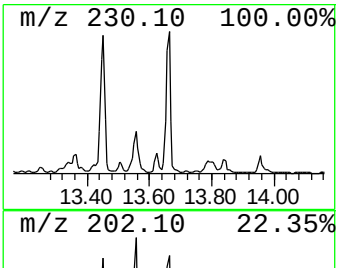
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	98
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
4	o-Terphenyl	230	C18H14	000084-15-1	59
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	53

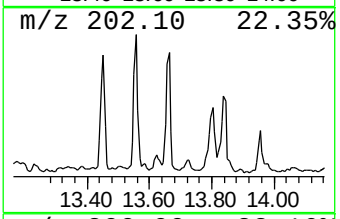


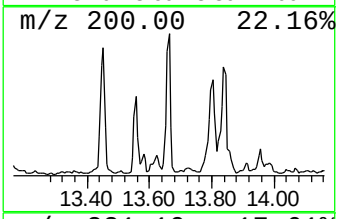


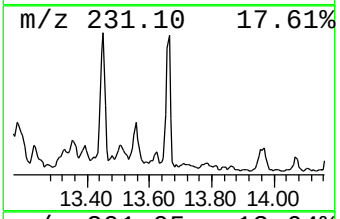


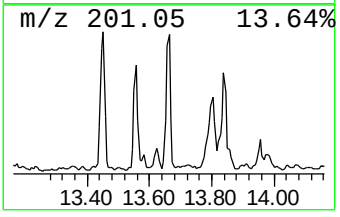












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Sample : I5182-05
Misc :
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Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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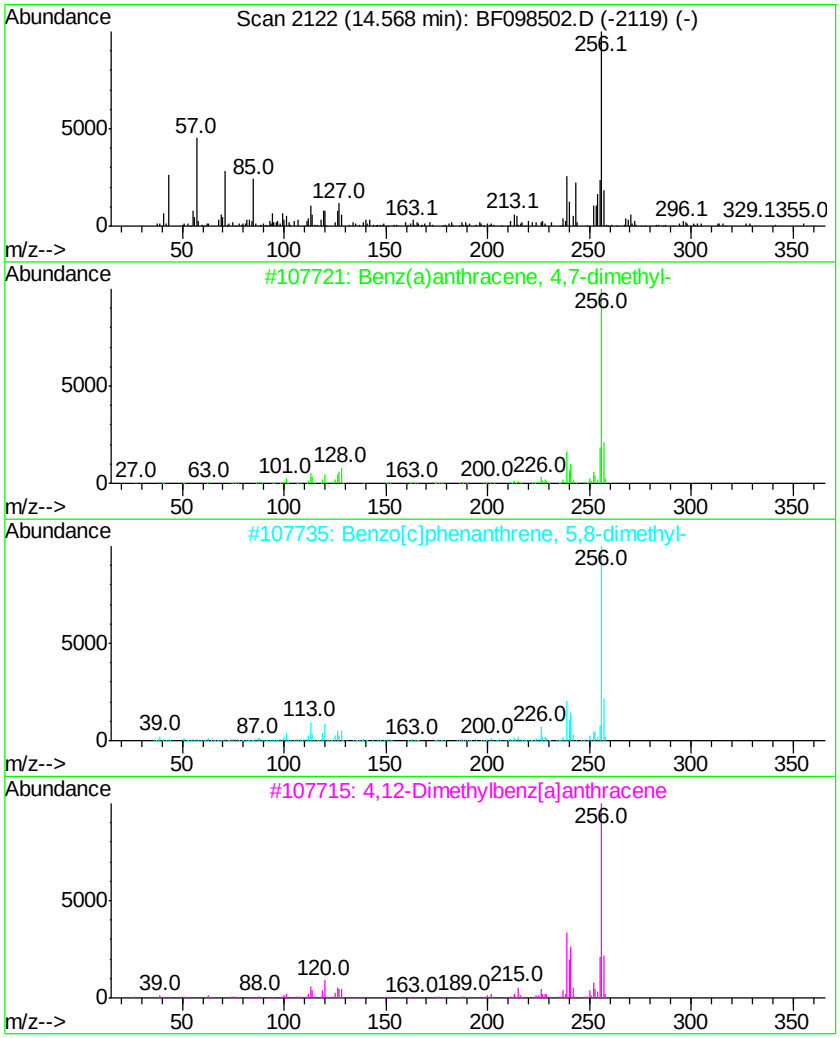
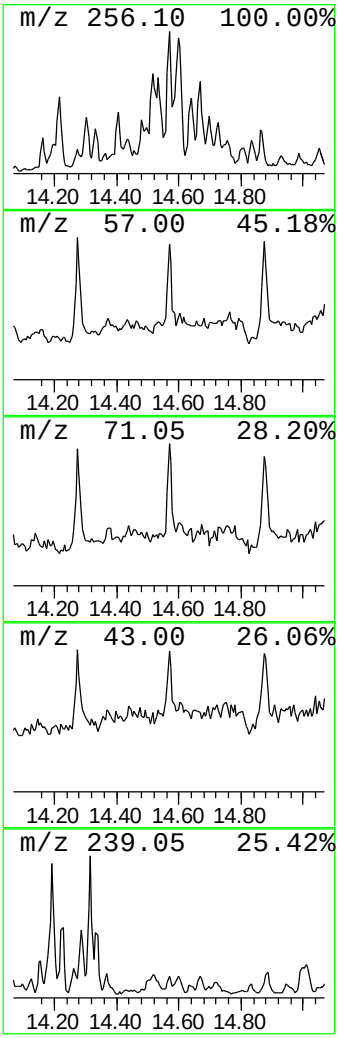
Peak Number 14 Benz(a)anthracene, 4,7-dime... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.57	5.15 ng	259328	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	76
2	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	64
3	4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	58
4	Benz(a)anthracene, 6,7-dimethyl-	256	C20H16	020627-28-5	53
5	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	52





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Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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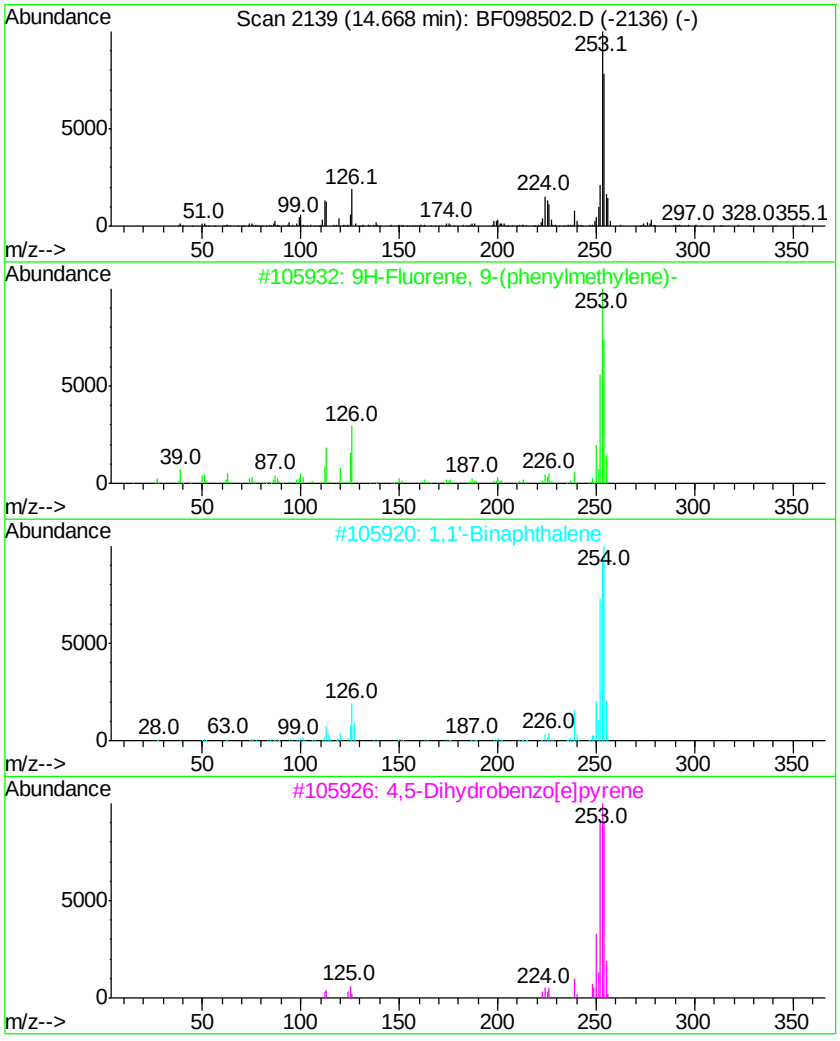
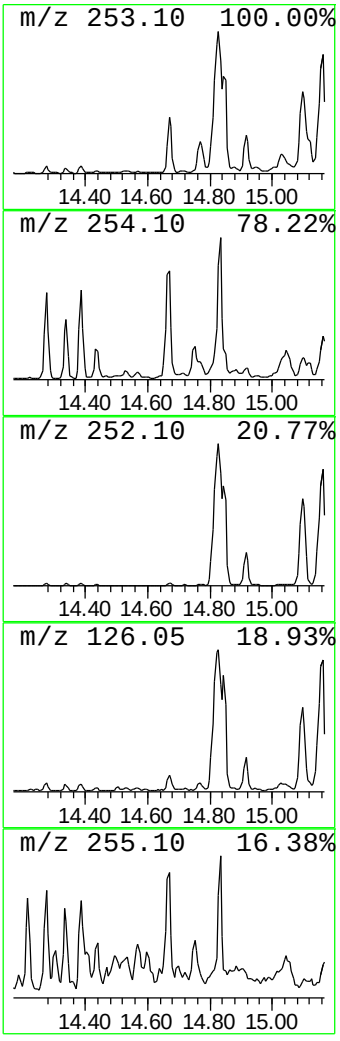
Peak Number 15 9H-Fluorene, 9-(phenylmethy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	8.71 ng	438329	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	81
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
3	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	74
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
5	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	72





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Instrument : BNA_F
ClientSampleId : G-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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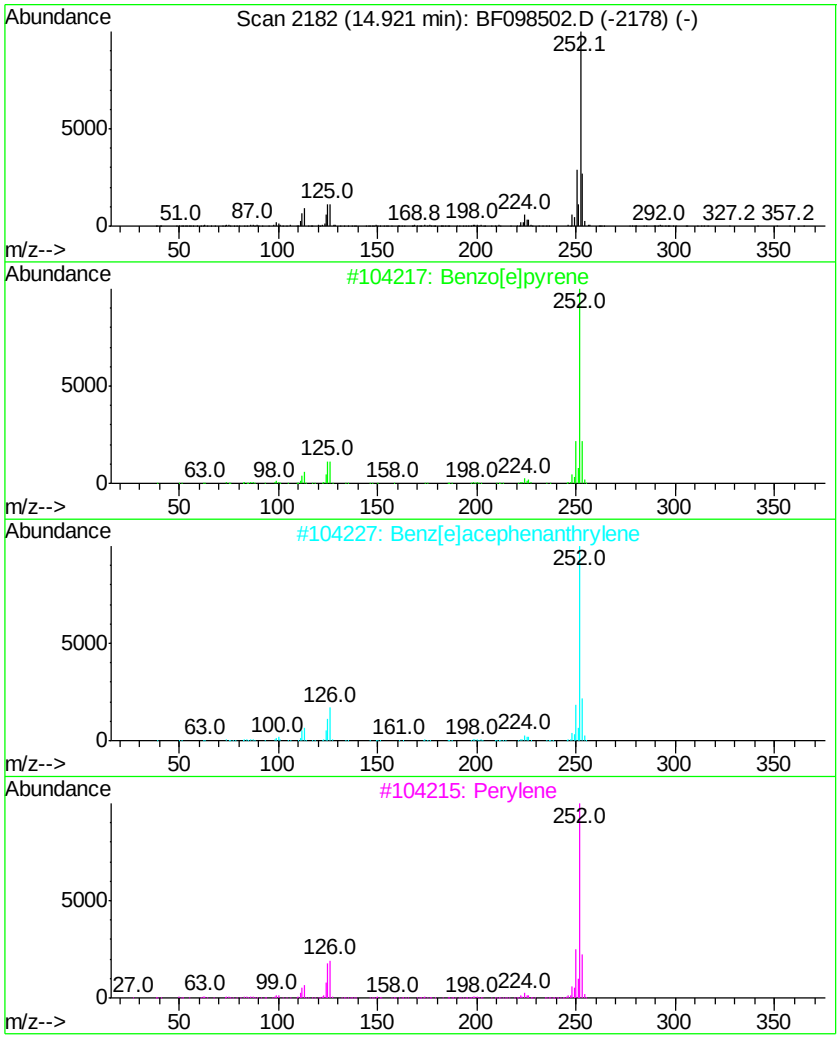
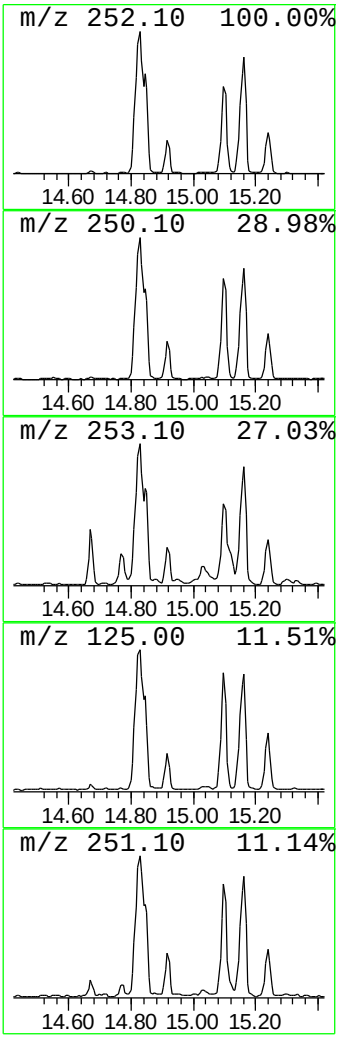
Peak Number 16 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	13.19 ng	663860	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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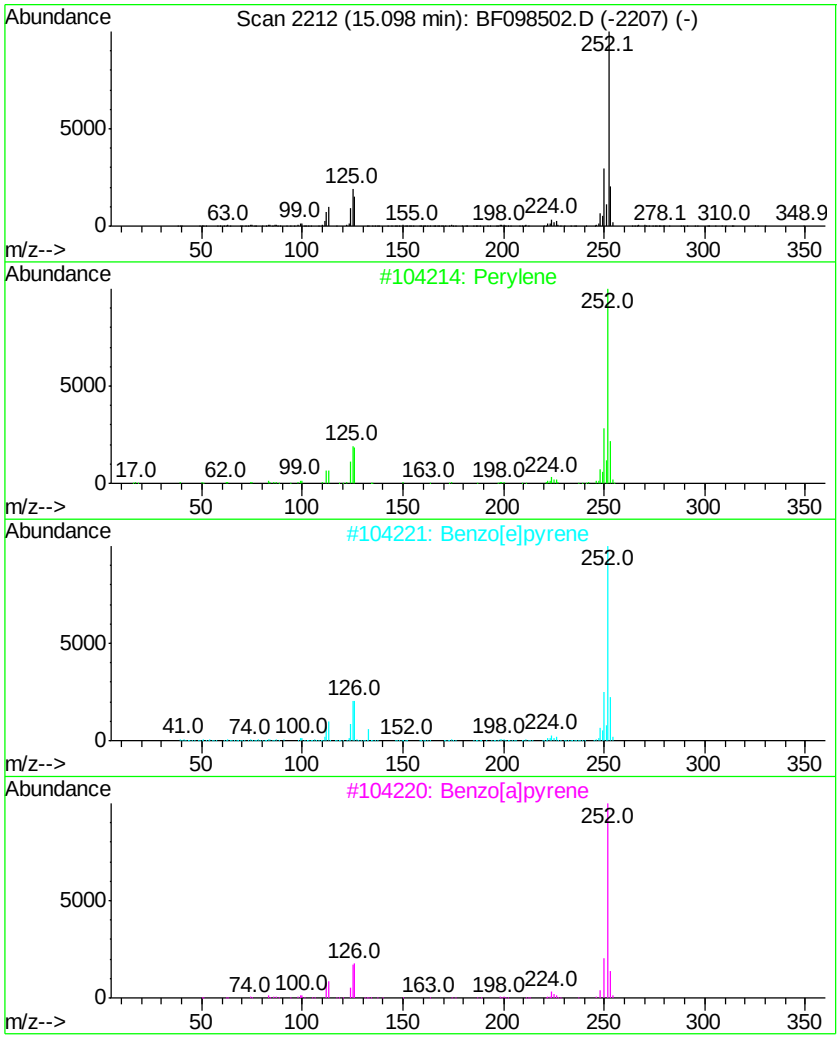
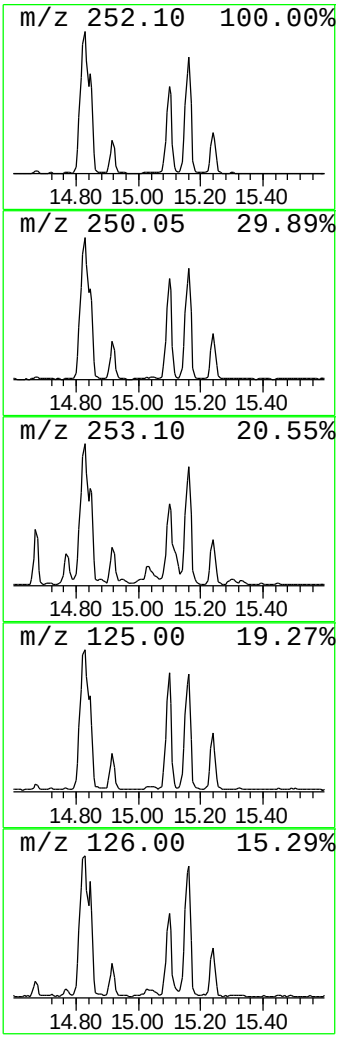
Peak Number 17 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	48.36 ng	2433670	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	99
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





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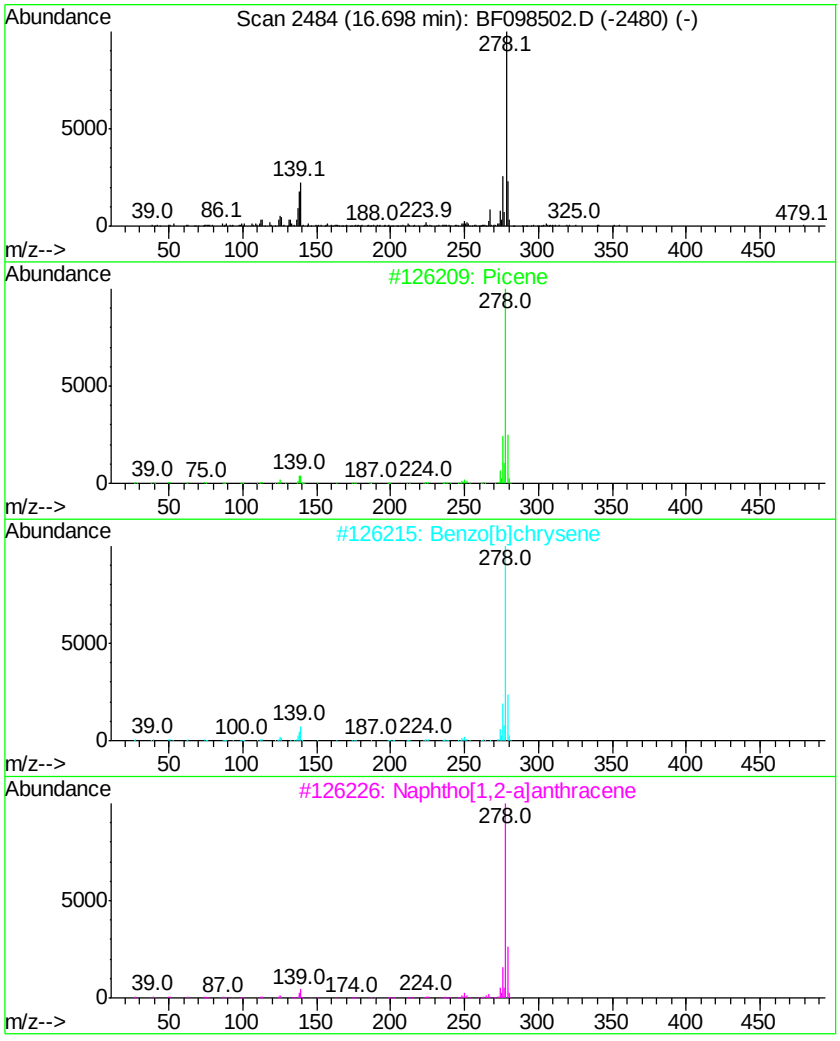
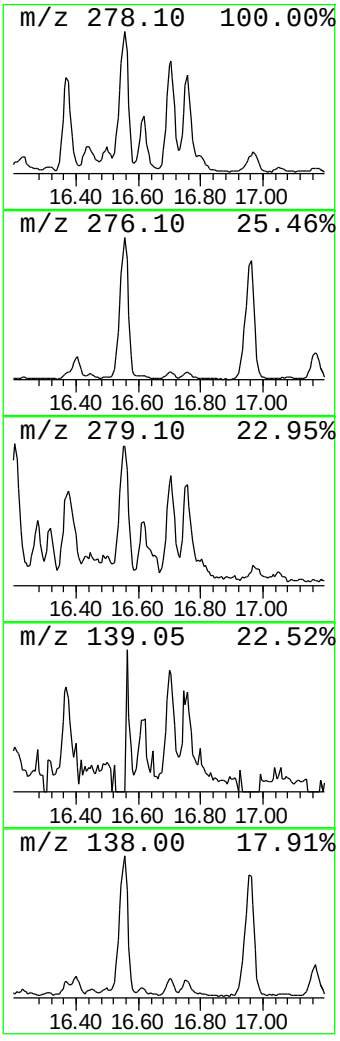
Peak Number 18 Picene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	6.64 ng	334361	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	97
2	Benzo[b]chrysene	278	C22H14	000214-17-5	97
3	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	96
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	96





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Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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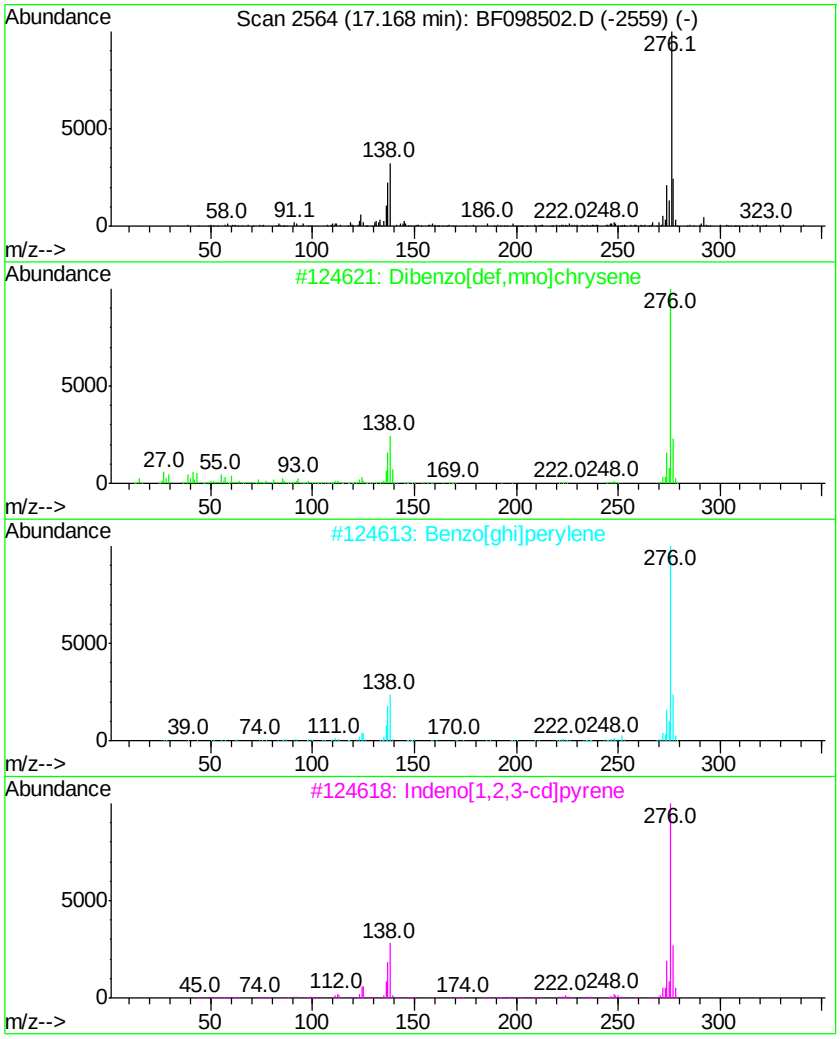
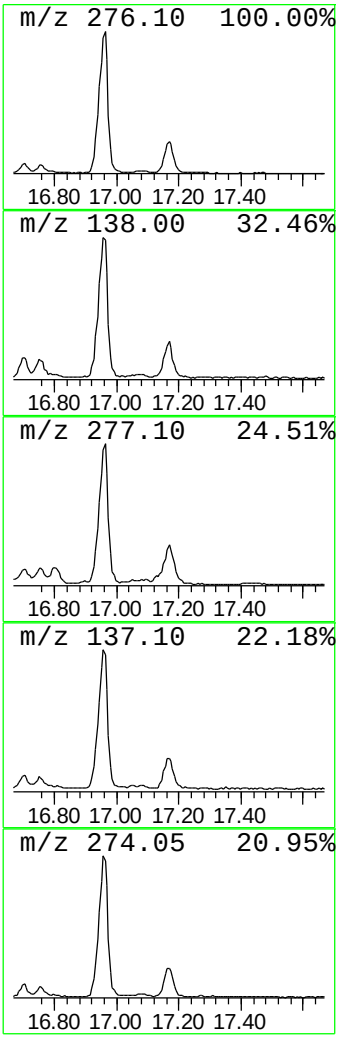
Peak Number 19 Dibenzo[def,mno]chrysene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.17	8.88 ng	446723	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	74
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	46





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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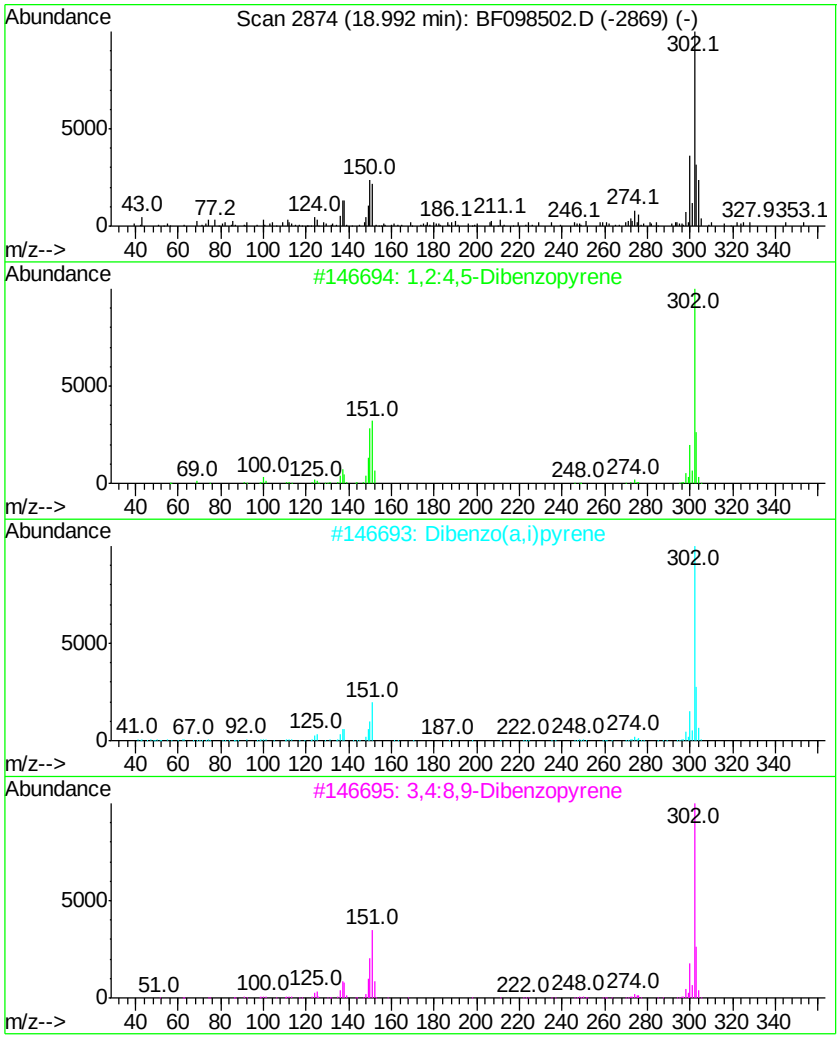
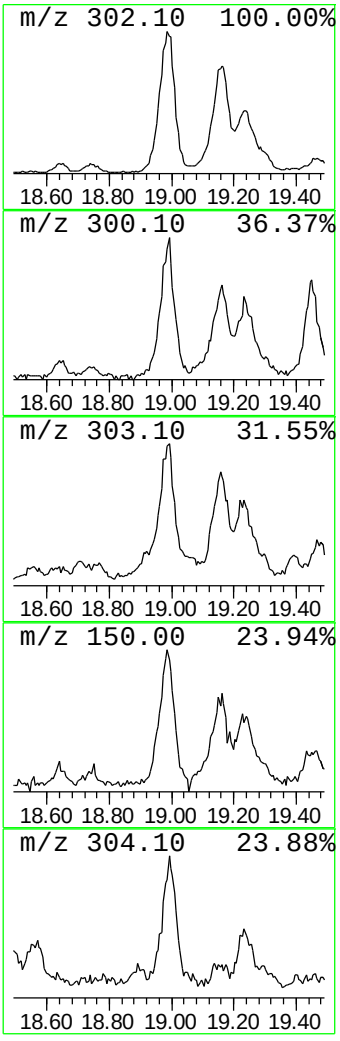
Peak Number 20 1,2:4,5-Dibenzopyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	9.28 ng	466992	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	76
2	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	76
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	70
4	1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	68
5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	58





Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF091317\
Data File : BF098502.D
Acq On : 13 Sep 2017 21:10
Operator : SJ/JU
Sample : I5182-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : G-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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
2-Pentanone, 4-hy...	4.83	6.4	ng	348366	1	6.66	1088510	20.0
unknown6.43	6.43	68.5	ng	3725710	1	6.66	1088510	20.0
Naphthalene, 1-me...	8.75	10.6	ng	862172	2	7.94	1623490	20.0
Naphthalene, 2,6-...	9.27	7.6	ng	660864	3	9.69	1742070	20.0
Naphthalene, 2,3-...	9.35	10.2	ng	891297	3	9.69	1742070	20.0
Naphthalene, 2,3,...	10.00	3.4	ng	293059	3	9.69	1742070	20.0
Dibenzofuran, 4-m...	10.39	7.7	ng	671629	3	9.69	1742070	20.0
Benzo[b]naphtho[2...	13.56	3.1	ng	1094490	5	13.82	6976970	20.0
Cyclopenta[cd]pyrene	13.60	3.4	ng	1195800	5	13.82	6976970	20.0
11H-Benzo[a]fluor...	13.66	3.1	ng	1087660	5	13.82	6976970	20.0
Benz(a)anthracene...	14.57	5.2	ng	259328	6	15.21	1006520	20.0
9H-Fluorene, 9-(p...	14.67	8.7	ng	438329	6	15.21	1006520	20.0
Benzo[e]pyrene	14.92	13.2	ng	663860	6	15.21	1006520	20.0
Perylene	15.10	48.4	ng	2433670	6	15.21	1006520	20.0
Picene	16.70	6.6	ng	334361	6	15.21	1006520	20.0
Dibenzo[def,mno]c...	17.17	8.9	ng	446723	6	15.21	1006520	20.0
1,2:4,5-Dibenzopy...	18.99	9.3	ng	466992	6	15.21	1006520	20.0