LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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-BF040216.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	4.899	243	246	257	rBV	165195	325145	13.08%	0.702%
2	5.333	281	284	286	rBV	1518828	2086296	83.94%	4.503%
3	6.385	373	376	384	rBV	1919633	2302410	92.64%	4.969%
4	6.499	384	386	389	rVV	1854179	2164904	87.10%	4.672%
5	6.739	405	407	409	rBV	528242	665756	26.79%	1.437%
6	6.887	418	420	423	rBV	1904392	1758764	70.76%	3.796%
7	7.310	454	457	459	rBV	1196548	1486156	59.80%	3.207%
8	8.019	517	519	524	rBV	1042344	969722	39.02%	2.093%
9	8.739	580	582	586	rVB	51097	44820	1.80%	0.097%
10	9.093	611	613	616	rBV	2145606	2451029	98.62%	5.290%
11	9.368	634	637	641	rBV	28793	47043	1.89%	0.102%
12	9.436	641	643	644	rVV	56648	55939	2.25%	0.121%
13	9.459	644	645	647	rVV	33598	39492	1.59%	0.085%
14	9.493	647	648	652	rVV	270510	247061	9.94%	0.533%
15	9.551	652	653	656	rVV	27233	34507	1.39%	0.074%
16	9.631	659	660	663	rVV	88001	97124	3.91%	0.210%
17	9.711	665	667	669	rVB	46350	41379	1.66%	0.089%
18	9.768	670	672	674	rVV	944991	940837	37.85%	2.031%
19	9.802	674	675	678	rVB	171444	146722	5.90%	0.317%
20	9.973	688	690	693	rVV	63723	104135	4.19%	0.225%
21	10.019	693	694	697	rVB2	36568	38028	1.53%	0.082%
22	10.179	706	708	709	rBV	36520	46204	1.86%	0.100%
23	10.202	709	710	712	rVB	76201	66354	2.67%	0.143%
24	10.316	718	720	723	rVB	150422	155421	6.25%	0.335%
25	10.385	723	726	727	rBV	28482	39914	1.61%	0.086%
26	10.431	727	730	733	rVV3	32373	57883	2.33%	0.125%
27	10.476	733	734	736	rVB	73387	61415	2.47%	0.133%
28	10.556	739	741	744	rBV2	1129399	1375187	55.33%	2.968%
29	10.682	750	752	756	rVB2	86913	159138	6.40%	0.343%
30	10.762	756	759	762	rBV3	16795	43349	1.74%	0.094%
31	10.865	765	768	770	rVV2	64826	102221	4.11%	0.221%
32	10.934	772	774	777	rVV4	24434	55011	2.21%	0.119%
33	11.014	777	781	784	rVV3	50339	121645	4.89%	0.263%
34	11.071	784	786	788	rVV	81439	82333	3.31%	0.178%

LSC Area Percent Report

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Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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-BF040216.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.128	788	791	792	rVV2	51630	105845	4.26%	0.228%
36	11.151	792	793	797	rVB	128513	120655	4.85%	0.260%
37	11.254	800	802	803	rBV	996945	921407	37.07%	1.989%
38	11.276	803	804	806	rVV	1796918	1496151	60.20%	3.229%
39	11.334	806	809	811	rVV	436368	515871	20.76%	1.113%
40	11.368	811	812	815	rVB2	28033	45716	1.84%	0.099%
41	11.494	821	823	826	rBV2	105574	168388	6.78%	0.363%
42	11.551	826	828	829	rVV	80872	75031	3.02%	0.162%
43	11.585	829	831	834	rVB2	40949	73278	2.95%	0.158%
44	11.665	834	838	841	rBV4	29914	65803	2.65%	0.142%
45	11.756	844	846	847	rBV	228315	202492	8.15%	0.437%
46	11.791	847	849	851	rVV2	385556	472932	19.03%	1.021%
47	11.836	851	853	854	rVV	86156	111753	4.50%	0.241%
48	11.871	854	856	860	rVB	318356	549999	22.13%	1.187%
49	11.951	861	863	865	rBV2	35054	81032	3.26%	0.175%
50	12.054	870	872	873	rVV	141862	157910	6.35%	0.341%
51	12.088	873	875	877	rVB	96200	98722	3.97%	0.213%
52	12.202	882	885	886	rBV2	55204	74082	2.98%	0.160%
53	12.237	886	888	889	rBV	28811	44259	1.78%	0.096%
54	12.305	891	894	895	rBV	135891	141246	5.68%	0.305%
55	12.339	895	897	900	rVB3	89123	159373	6.41%	0.344%
56	12.397	900	902	906	rVB	150246	168100	6.76%	0.363%
57	12.465	906	908	911	rBV	2225701	2437224	98.06%	5.260%
58	12.534	913	914	915	rVB	51231	35144	1.41%	0.076%
59	12.568	915	917	919	rBV	70504	79091	3.18%	0.171%
60	12.614	919	921	923	rBV	126383	108978	4.38%	0.235%
61	12.694	925	928	931	rBV	2161928	2485403	100.00%	5.364%
62	12.751	931	933	935	rVB2	93244	130413	5.25%	0.281%
63	12.842	938	941	943	rVV	1419719	1922450	77.35%	4.149%
64	12.911	944	947	949	rBV2	134910	235636	9.48%	0.509%
65	13.025	953	957	959	rBV	303054	435075	17.51%	0.939%
66	13.094	959	963	964	rBV2	142930	269695	10.85%	0.582%
67	13.128	964	966	970	rBV	183665	242629	9.76%	0.524%
68	13.219	972	974	975	rBV	100568	74164	2.98%	0.160%
69	13.254	975	977	981	rVB2	85507	132822	5.34%	0.287%
70	13.322	981	983	987	rVB3	46081	85363	3.43%	0.184%
71	13.414	988	991	993	rBV3	56717	121930	4.91%	0.263%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.540	997	1002	1004	rBV2	154917	223847	9.01%	0.483%
73	13.642	1008	1011	1014	rBV2	241640	454020	18.27%	0.980%
74	13.688	1014	1015	1018	rVV2	121767	202632	8.15%	0.437%
75	13.745	1018	1020	1024	rVB	372308	448674	18.05%	0.968%
76	13.814	1024	1026	1029	rVB	51693	59675	2.40%	0.129%
77	13.882	1029	1032	1034	rBV2	1344739	2211259	88.97%	4.772%
78	13.917	1034	1035	1039	rVB	1008107	917814	36.93%	1.981%
79	13.997	1040	1042	1044	rBV	189570	155321	6.25%	0.335%
80	14.042	1044	1046	1049	rBV3	62277	129433	5.21%	0.279%
81	14.088	1049	1050	1051	rVV	62947	68597	2.76%	0.148%
82	14.122	1051	1053	1055	rVB2	76680	96787	3.89%	0.209%
83	14.282	1062	1067	1068	rBV2	180386	327925	13.19%	0.708%
84	14.317	1068	1070	1071	rVB2	57804	60291	2.43%	0.130%
85	14.374	1071	1075	1076	rBV3	90870	178040	7.16%	0.384%
86	14.602	1092	1095	1097	rBV2	74554	152144	6.12%	0.328%
87	14.762	1107	1109	1110	rBV	119116	140967	5.67%	0.304%
88	14.911	1119	1122	1126	rBV	976546	2002109	80.55%	4.321%
89	15.003	1128	1130	1132	rBV	218953	231649	9.32%	0.500%
90	15.185	1143	1146	1149	rBV	467980	720818	29.00%	1.556%
91	15.243	1149	1151	1153	rVB	918173	1087516	43.76%	2.347%
92	15.300	1153	1156	1157	rBV	418649	624642	25.13%	1.348%
93	16.637	1270	1273	1277	rBV	433855	839104	33.76%	1.811%
94	16.797	1284	1287	1290	rBV	106795	245142	9.86%	0.529%
95	17.048	1305	1309	1315	rVB	333563	722372	29.06%	1.559%
96	17.266	1325	1328	1335	rBV	109889	302298	12.16%	0.652%
97	18.123	1401	1403	1405	rBV2	28701	46085	1.85%	0.099%
98	18.946	1474	1475	1480	rVB5	25491	36210	1.46%	0.078%
99	19.106	1483	1489	1499	rVB	90094	377886	15.20%	0.816%
100	19.277	1500	1504	1510	rBV	50542	211645	8.52%	0.457%

Sum of corrected areas: 46334308

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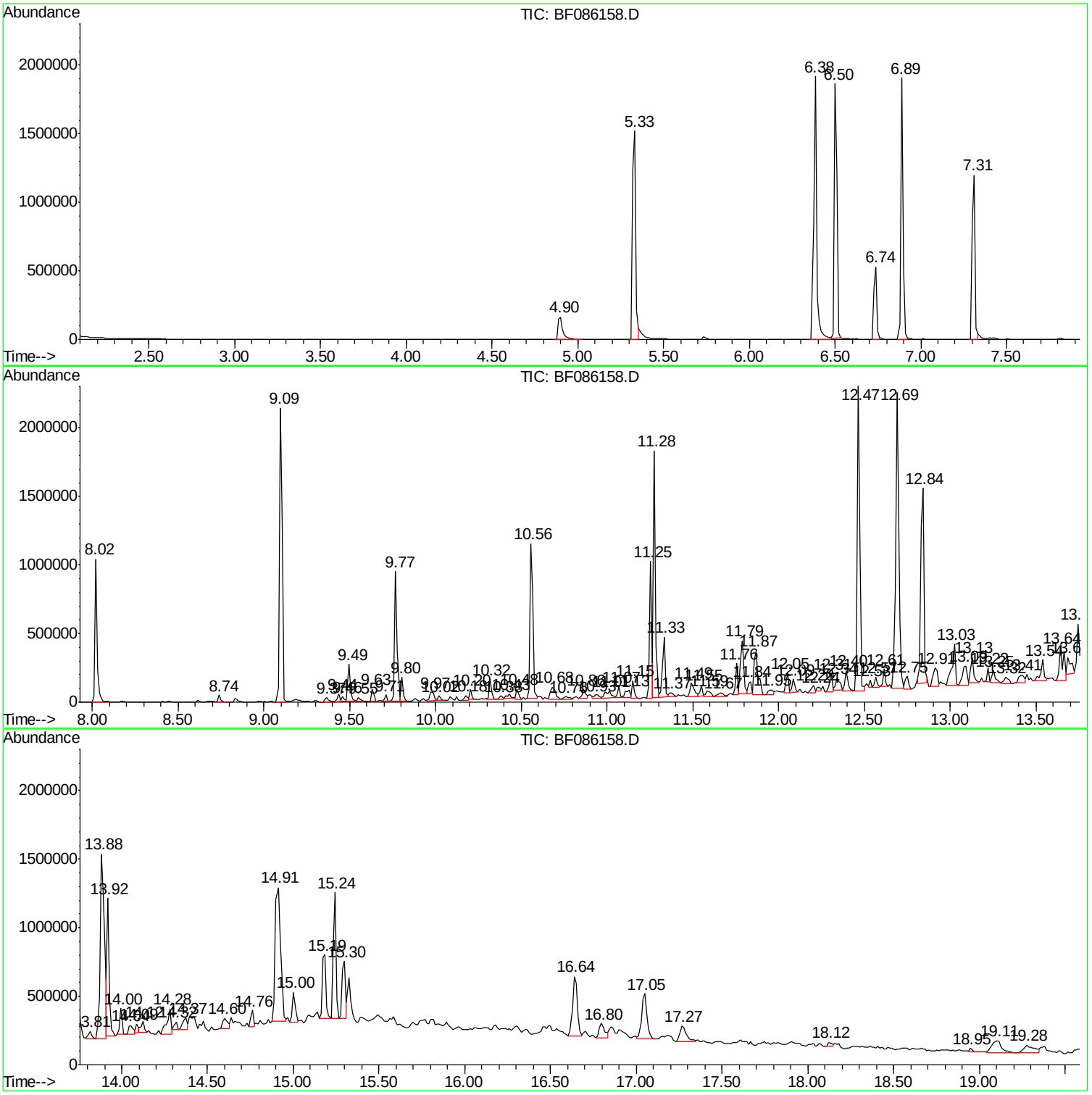
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
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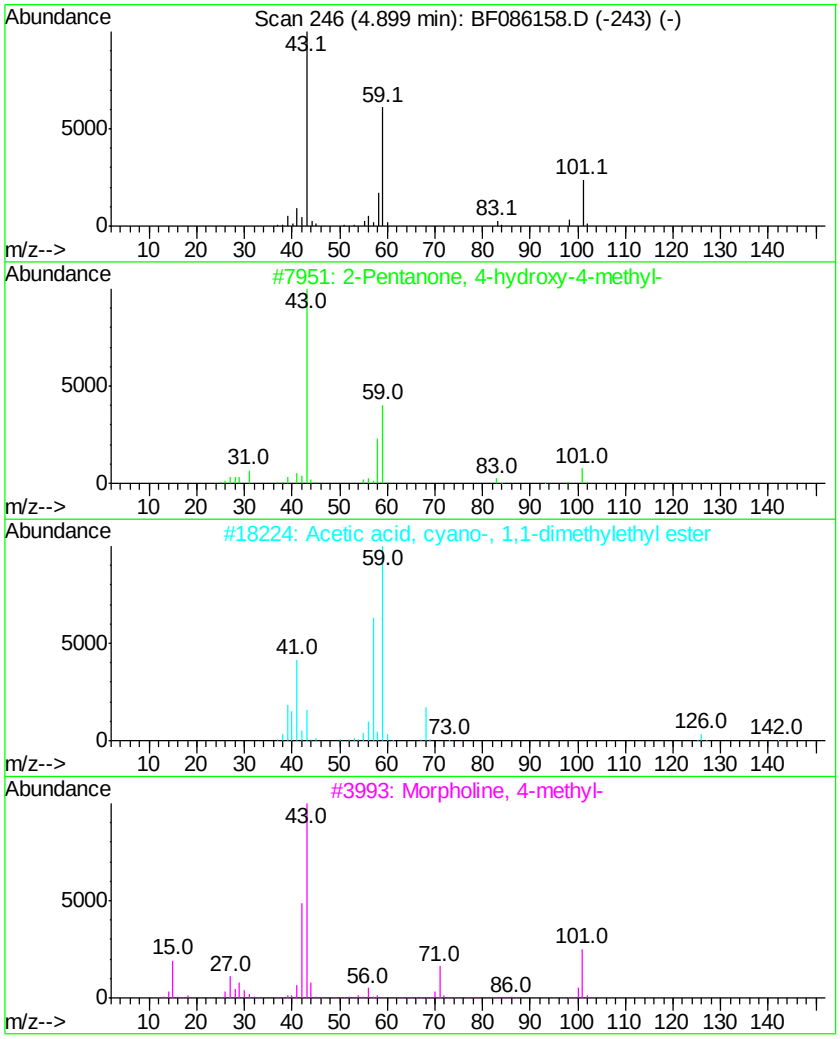
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

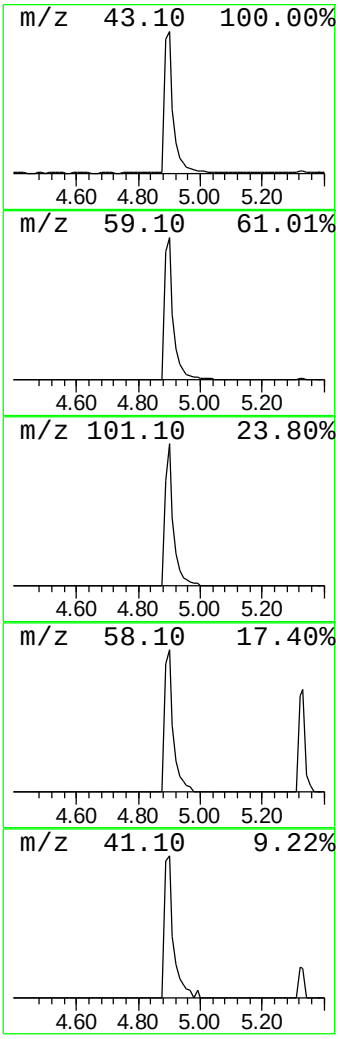
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.90	9.77 ng	325145	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	Butane	58	C4H10	000106-97-8	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





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Sample : H2310-02
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

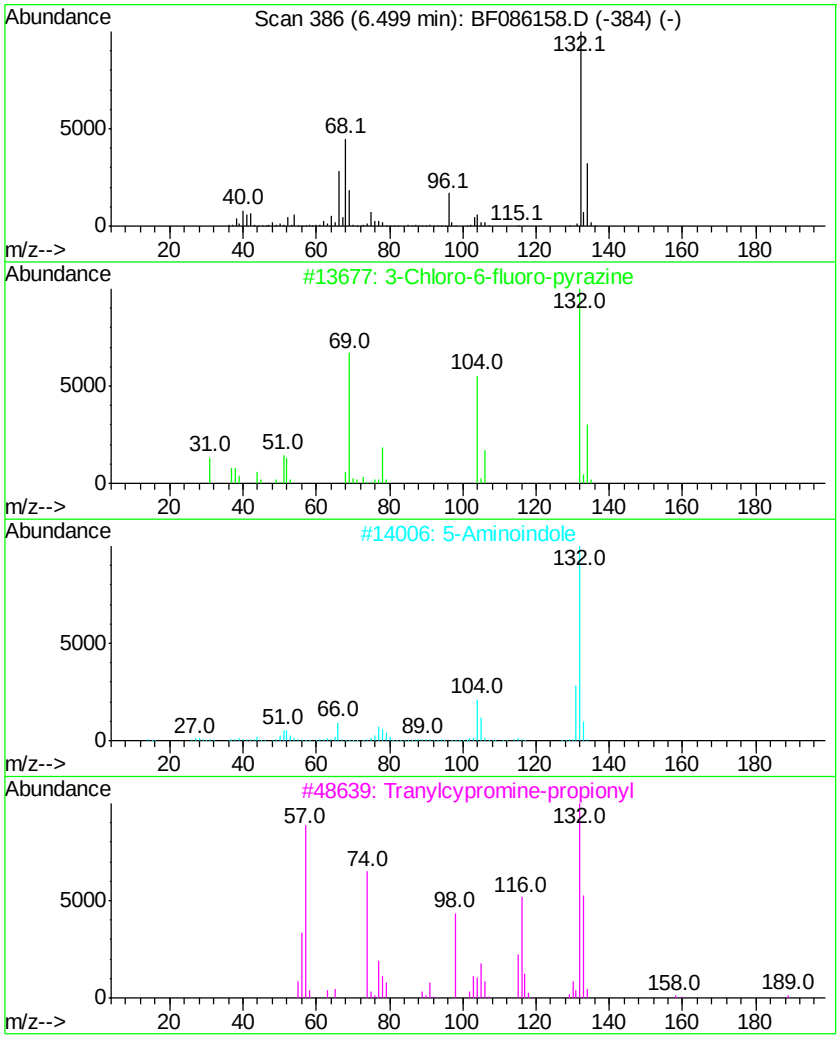
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

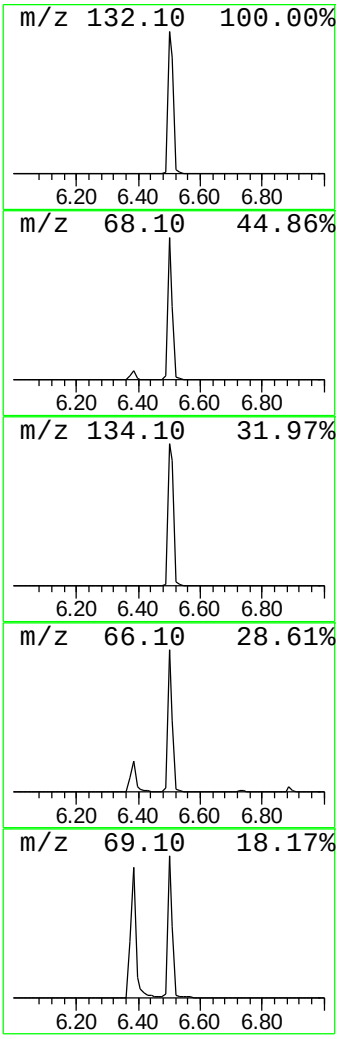
****

Peak Number 2 unknown6.50 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	65.04 ng	2164900	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
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Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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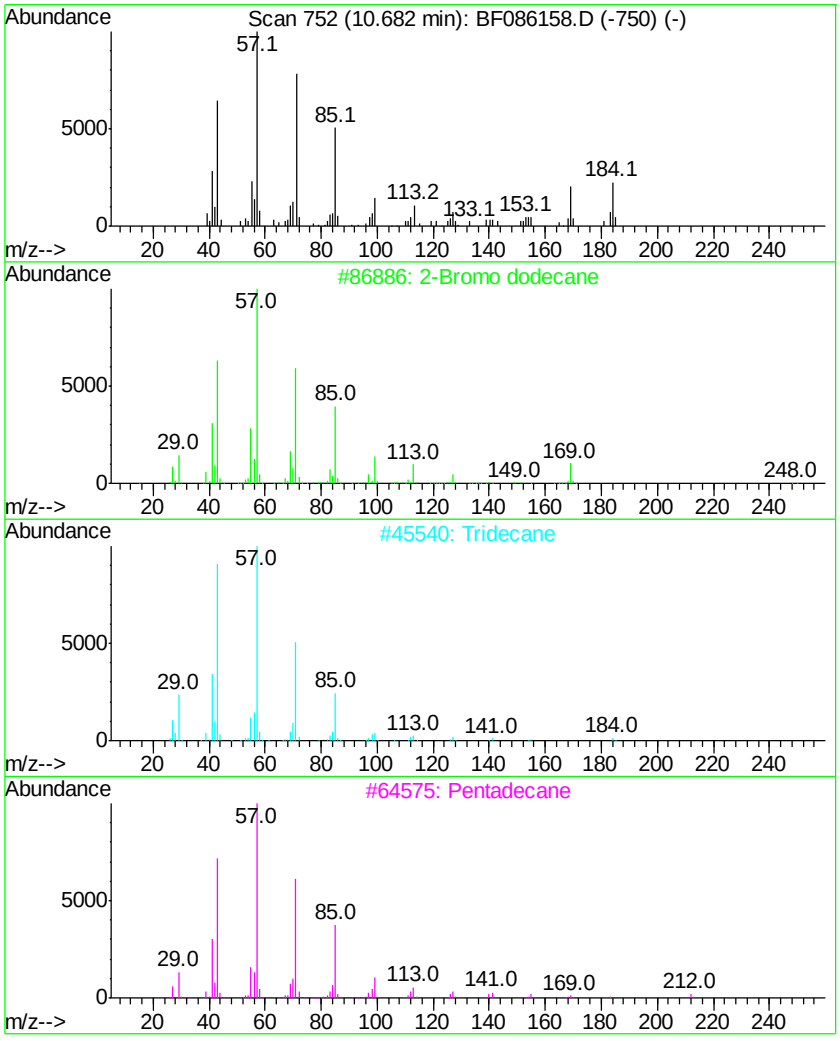
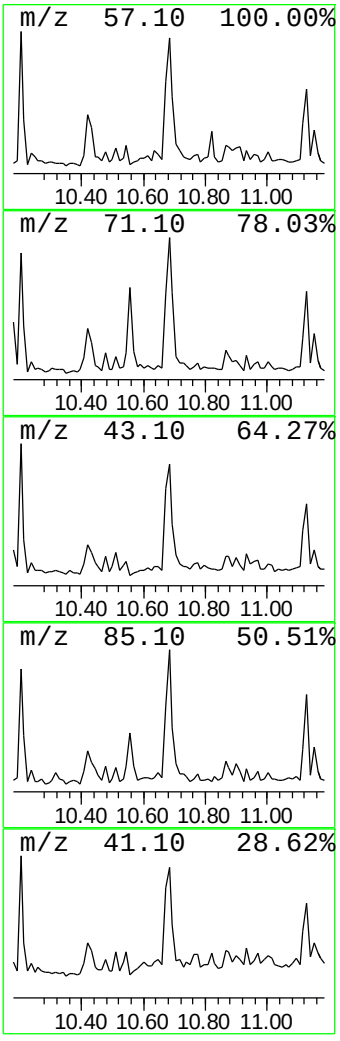
Peak Number 4 2-Bromo dodecane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	3.45 ng	159138	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	72
2	Tridecane	184	C13H28	000629-50-5	72
3	Pentadecane	212	C15H32	000629-62-9	68
4	Heptadecane	240	C17H36	000629-78-7	68
5	Octadecane	254	C18H38	000593-45-3	64





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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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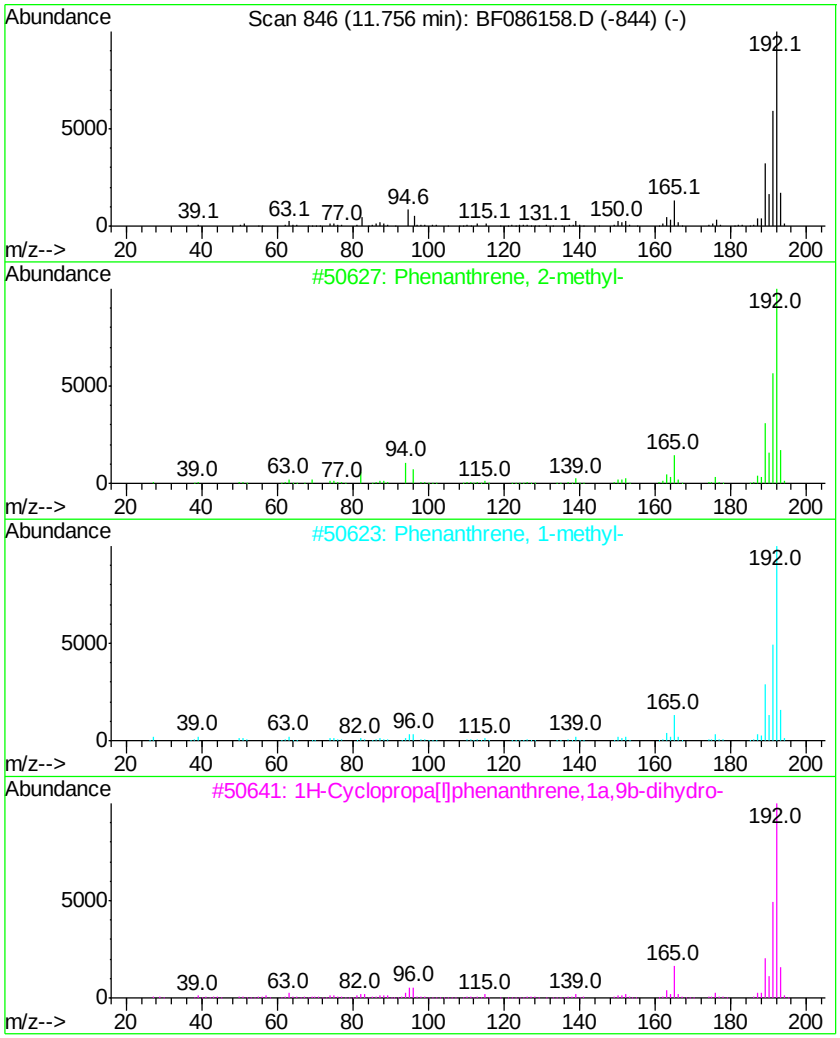
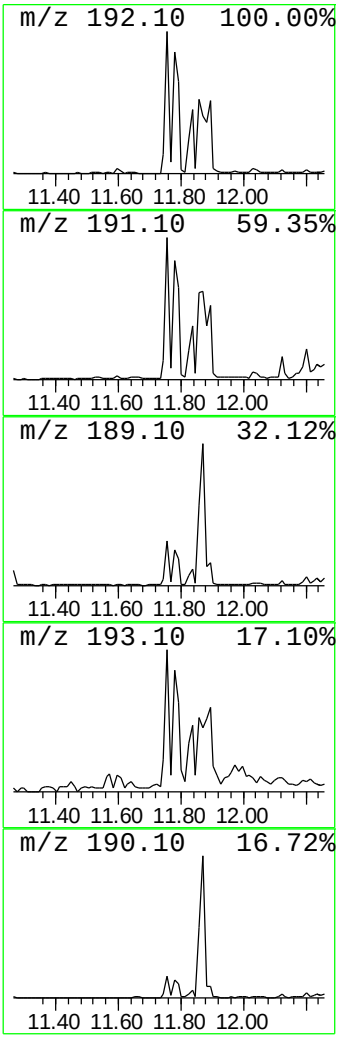
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	4.40 ng	202492	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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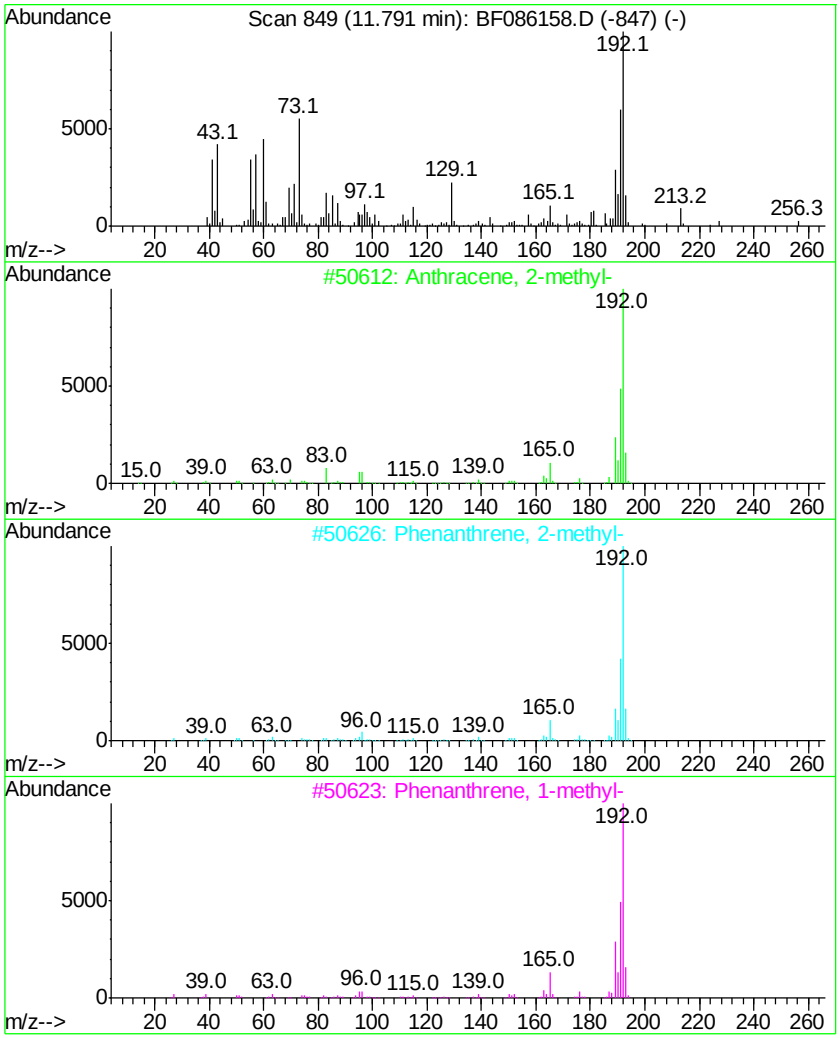
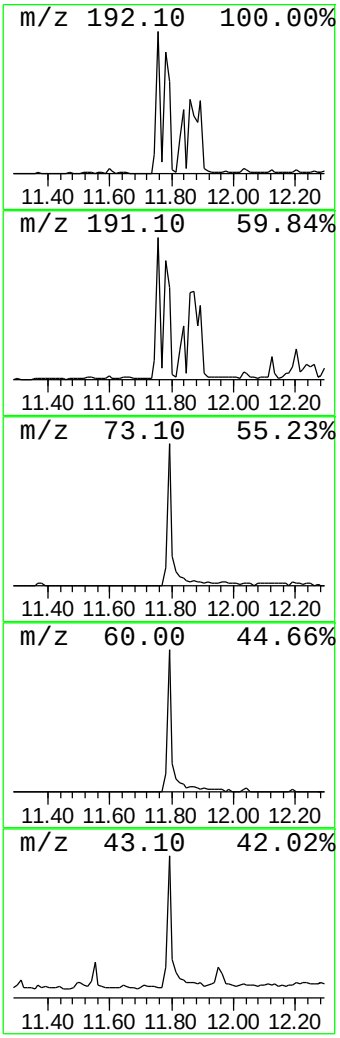
Peak Number 6 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	10.27 ng	472932	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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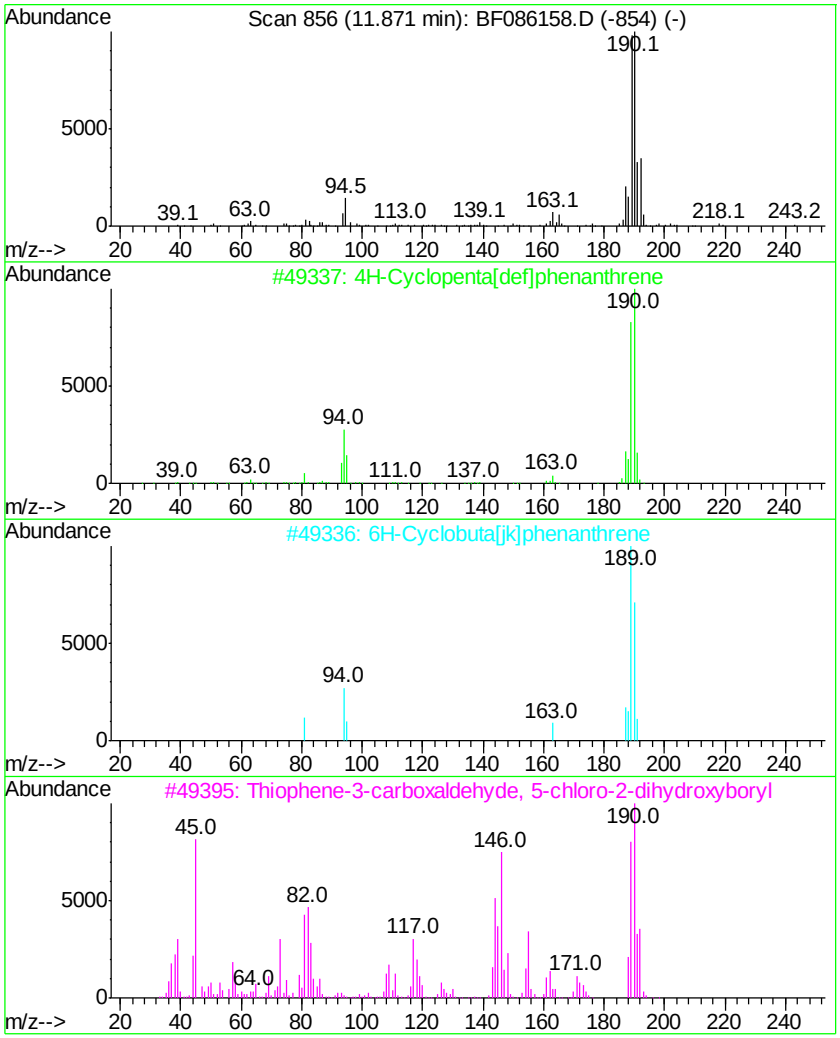
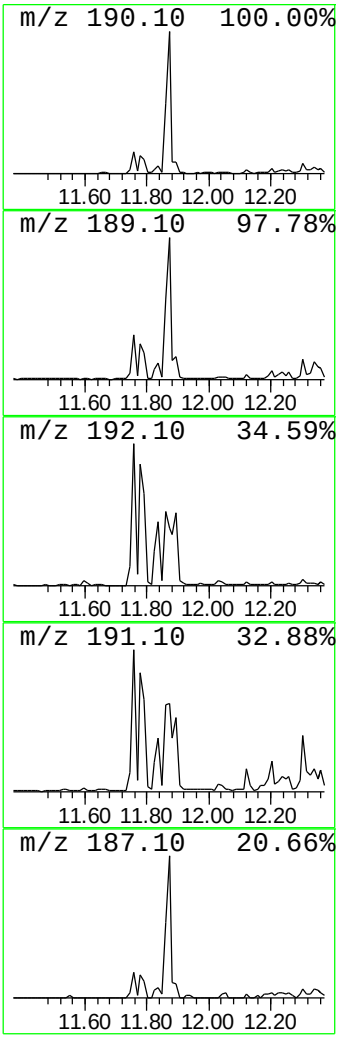
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	11.94 ng	549999	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	35





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Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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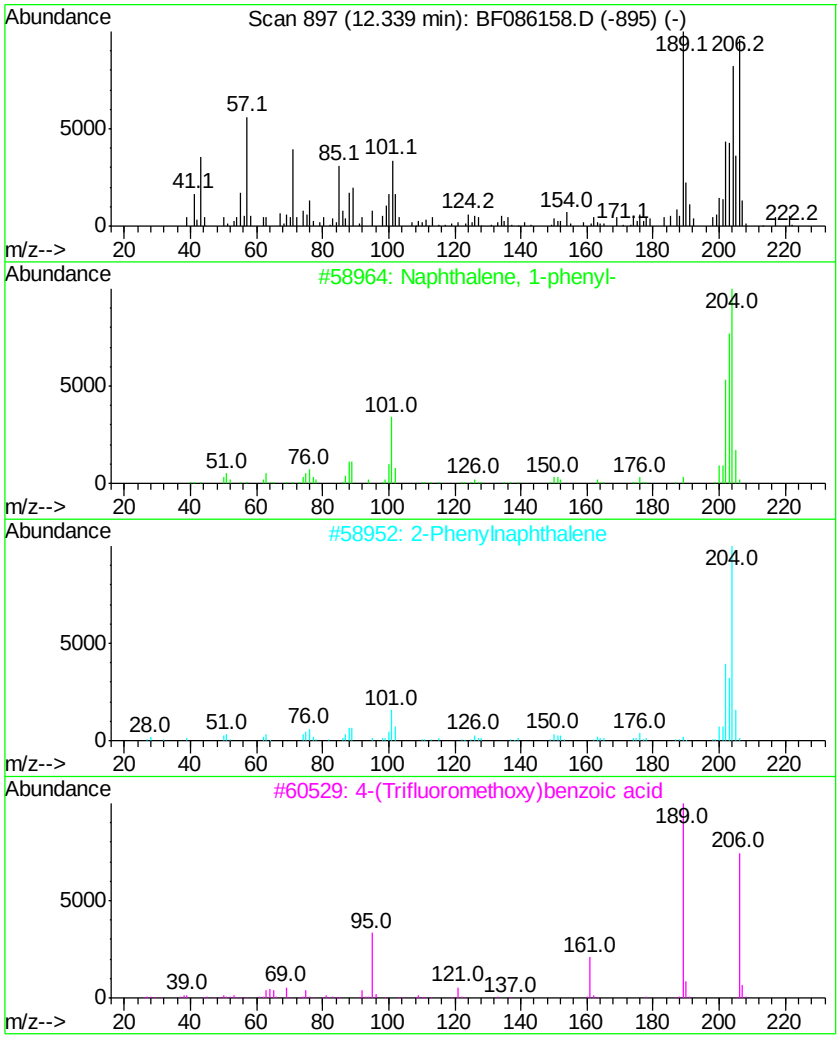
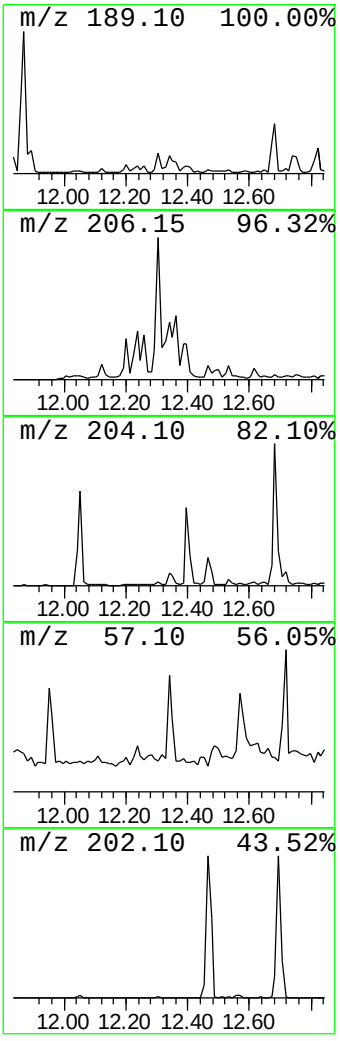
Peak Number 8 unknown12.34 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	3.46 ng	159373	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	42
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	30
3	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	27
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	25





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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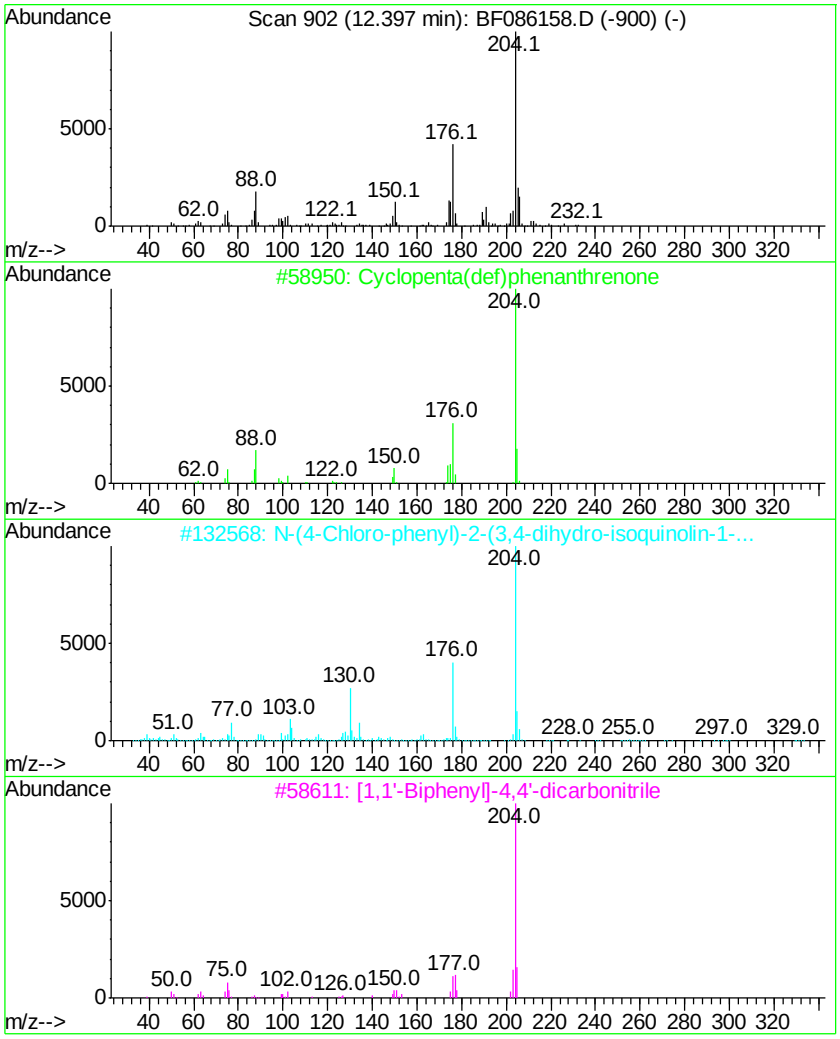
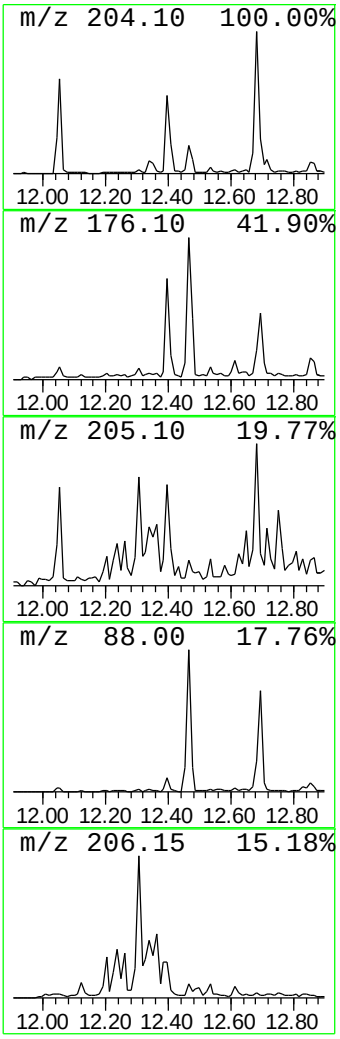
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	3.65 ng	168100	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
5	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	45





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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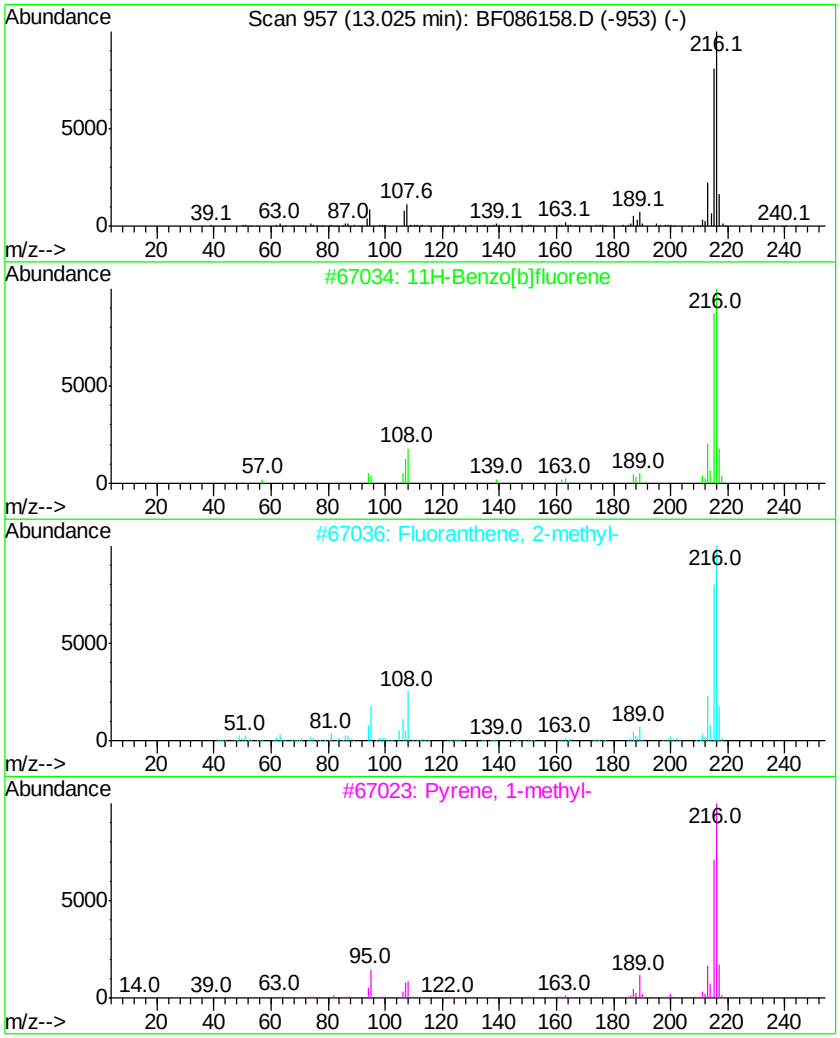
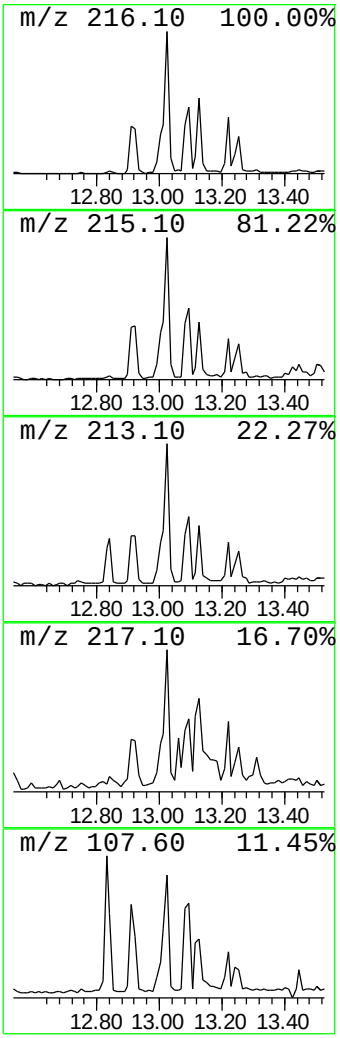
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	3.94 ng	435075	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	trans-3-(Trifluoromethyl)cinnamic	216	C10H7F3O2	000779-89-5	59





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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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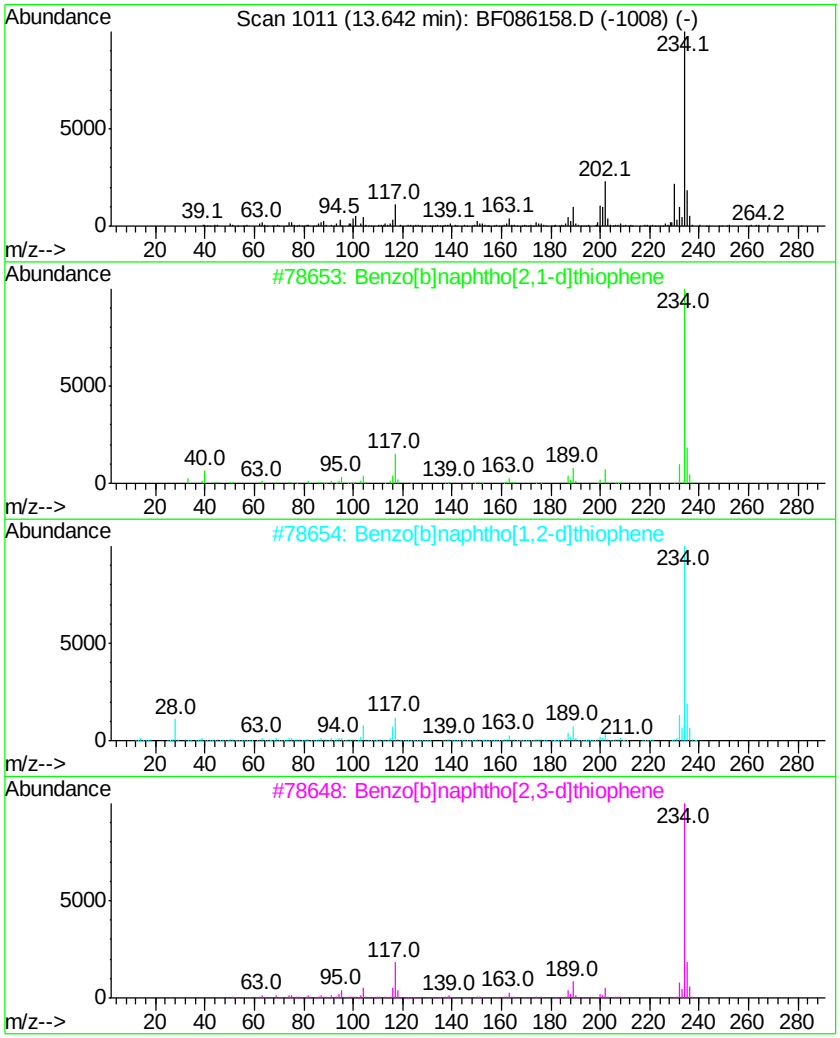
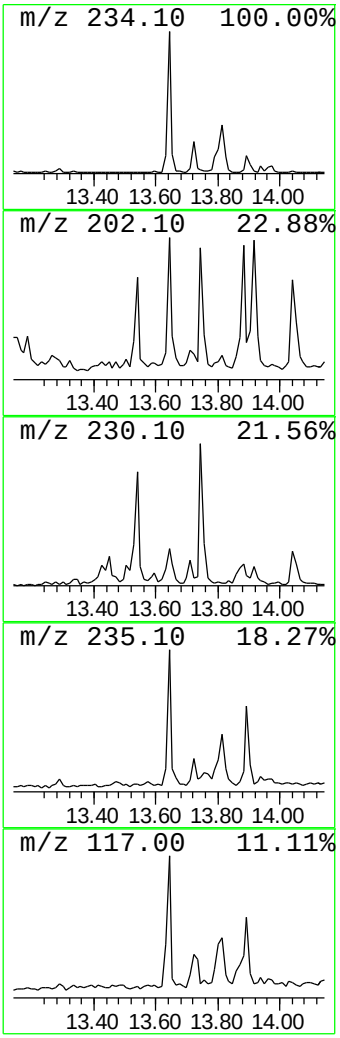
Peak Number 11 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	4.11 ng	454020	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
2	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	64
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	58
4	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	46
5	Bicyclo[3.1.0]hexane, 1,6-diphenyl-	234	C18H18	056143-23-8	37





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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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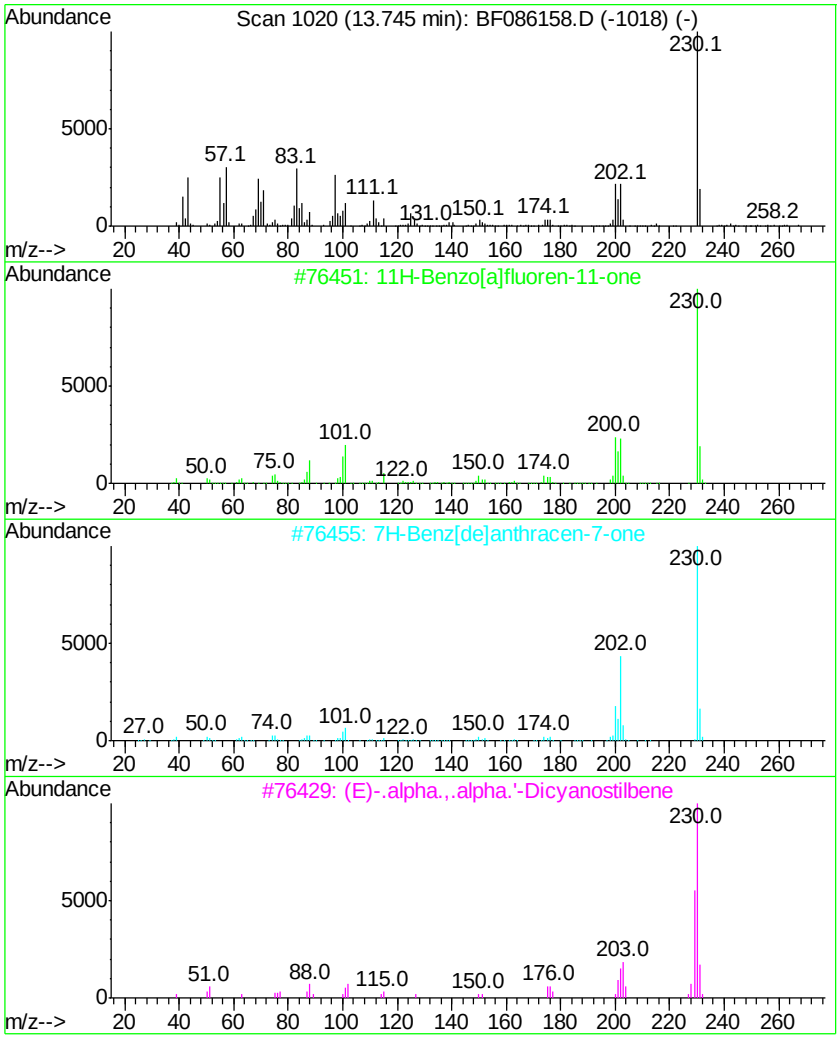
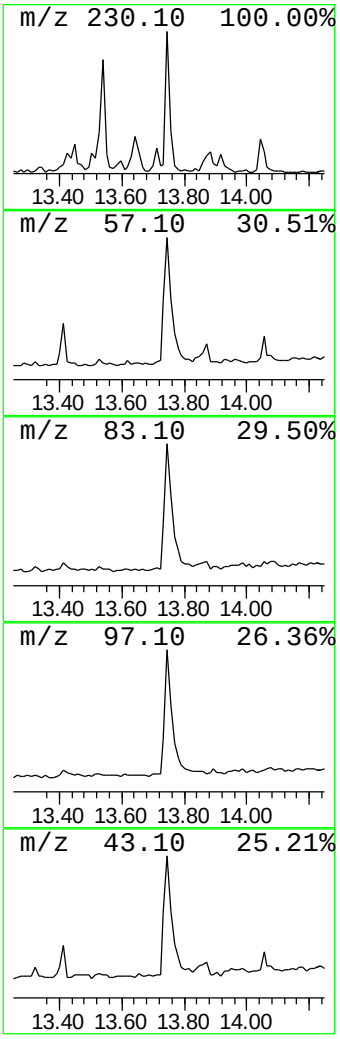
Peak Number 12 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	4.06 ng	448674	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
3	(E)-.alpha.,.alpha.'-Dicyanostil...	230	C16H10N2	002450-55-7	50
4	4-Chloro-indeno[1,2-b]pyridin-5-...	230	C12H7ClN2O	1000294-18-6	47
5	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	47





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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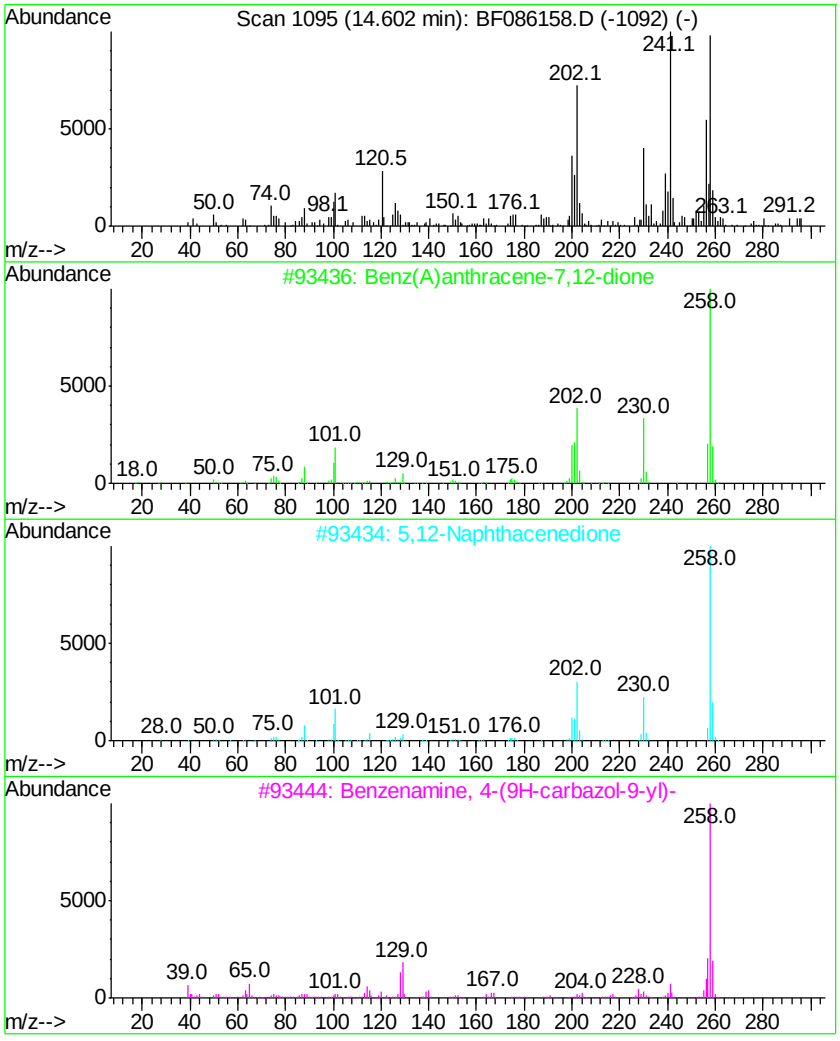
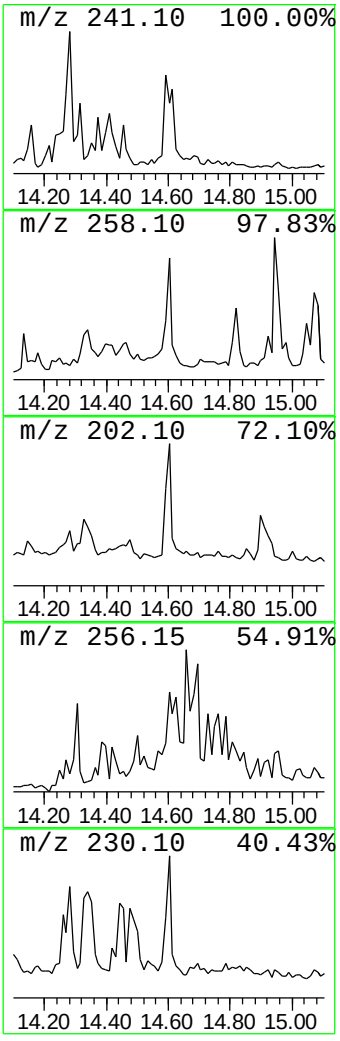
Peak Number 13 Benz(A)anthracene-7,12-dione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.60	4.87 ng	152144	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	95
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	86
3	Benzenamine, 4-(9H-carbazol-9-yl)-	258	C18H14N2	052708-37-9	38
4	1,4-Chrysenequinone	258	C18H10O2	100900-16-1	35
5	3-Bromobenzo(b)thiophene-6-carbo...	256	C9H5BrO2S	006177-89-5	22





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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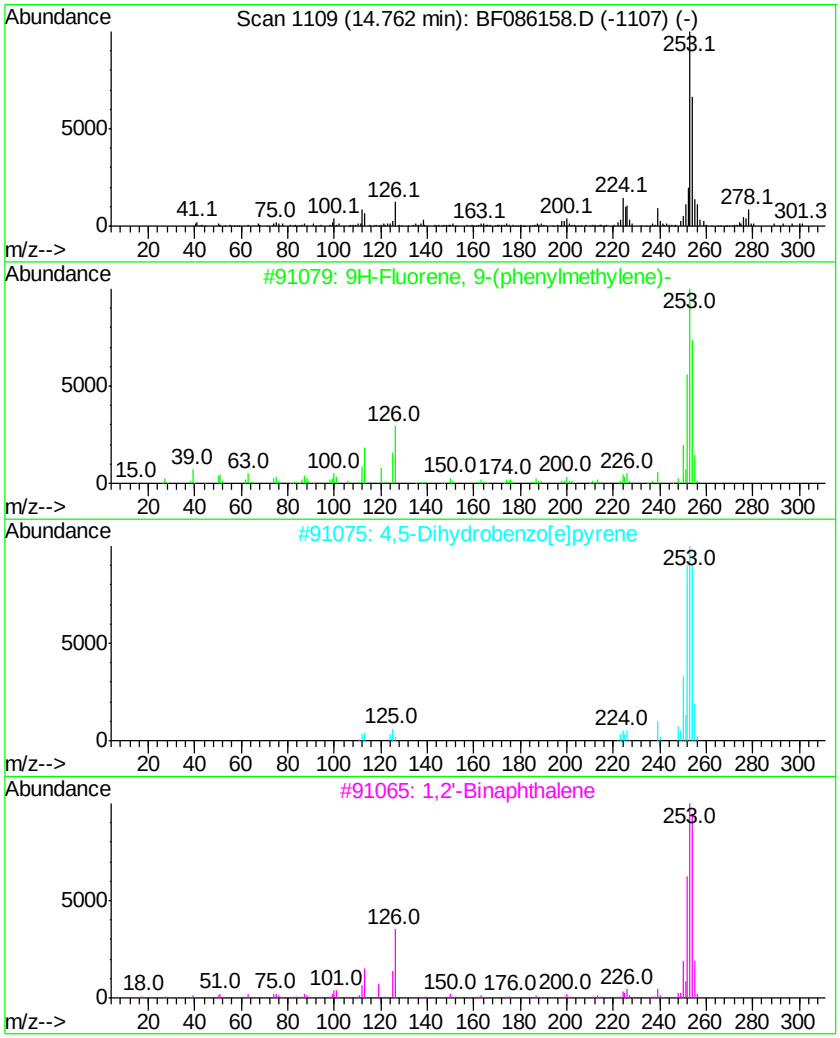
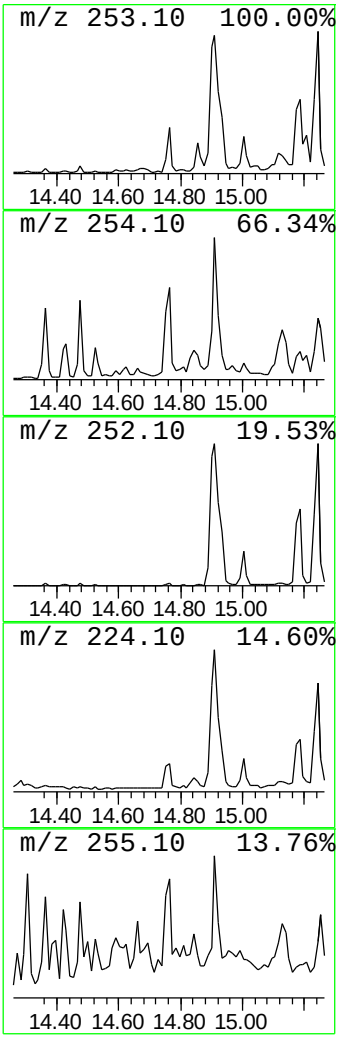
Peak Number 14 9H-Fluorene, 9-(phenylmethy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.76	4.51 ng	140967	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	68
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	68
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	59
4	10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	59
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	58





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Misc :
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Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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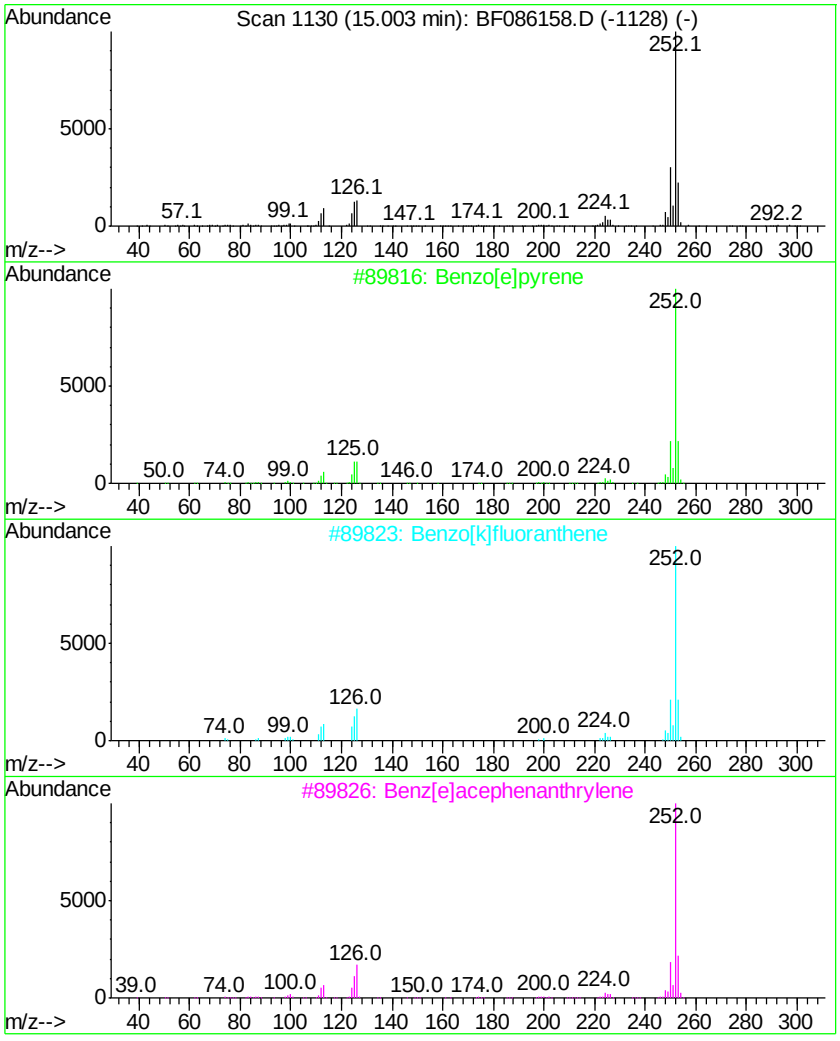
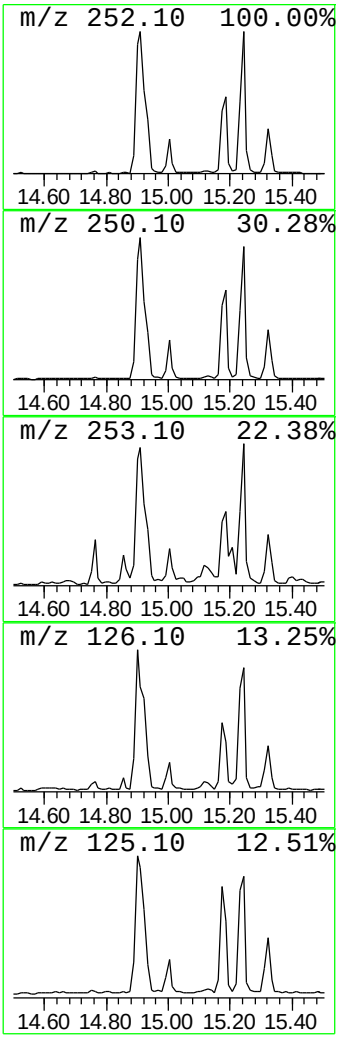
Peak Number 15 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	7.42 ng	231649	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Perylene	252	C20H12	000198-55-0	95
5	Benzo[a]pyrene	252	C20H12	000050-32-8	91





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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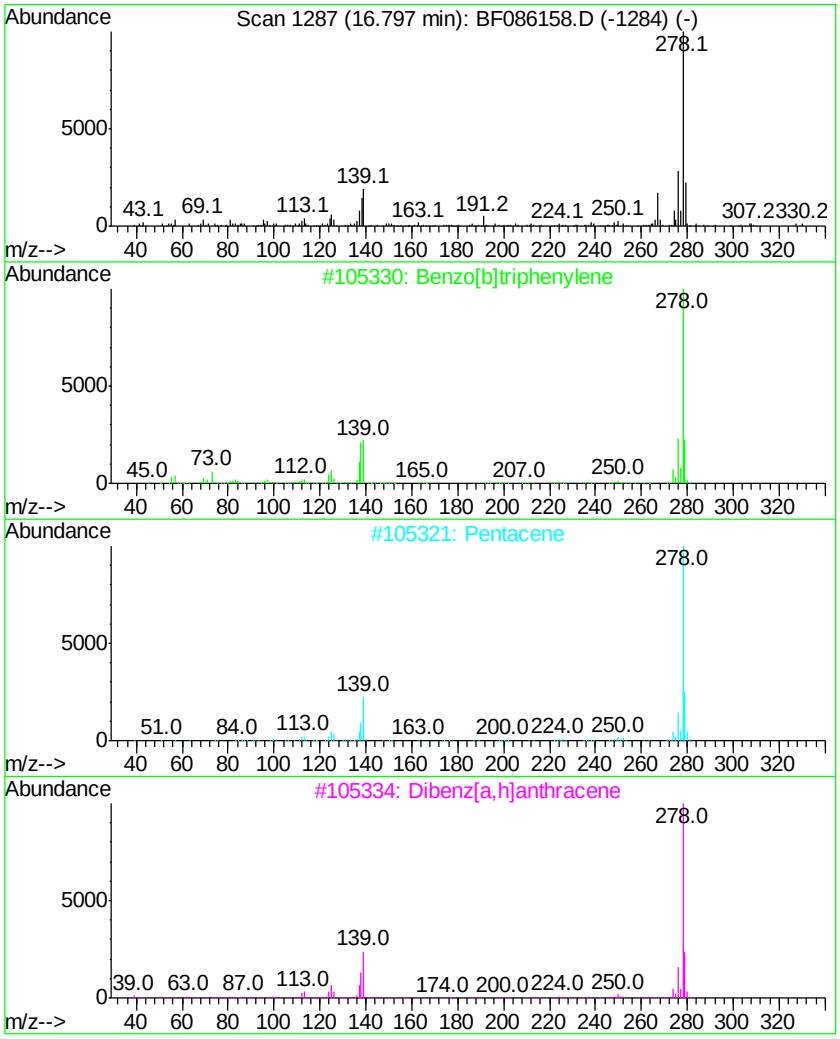
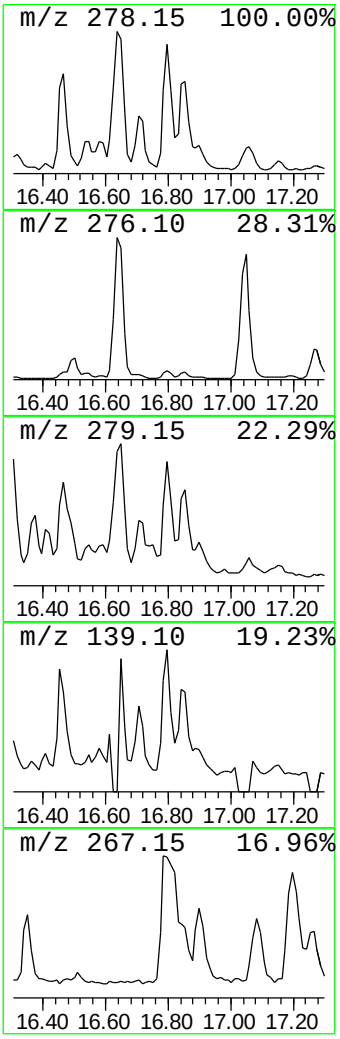
Peak Number 17 Benzo[b]triphenylene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.80	7.85 ng	245142	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Pentacene	278	C22H14	000135-48-8	94
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
4	Pentaphene	278	C22H14	000222-93-5	93
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93





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TIC Library : C:\DATABASE\NIST02.L
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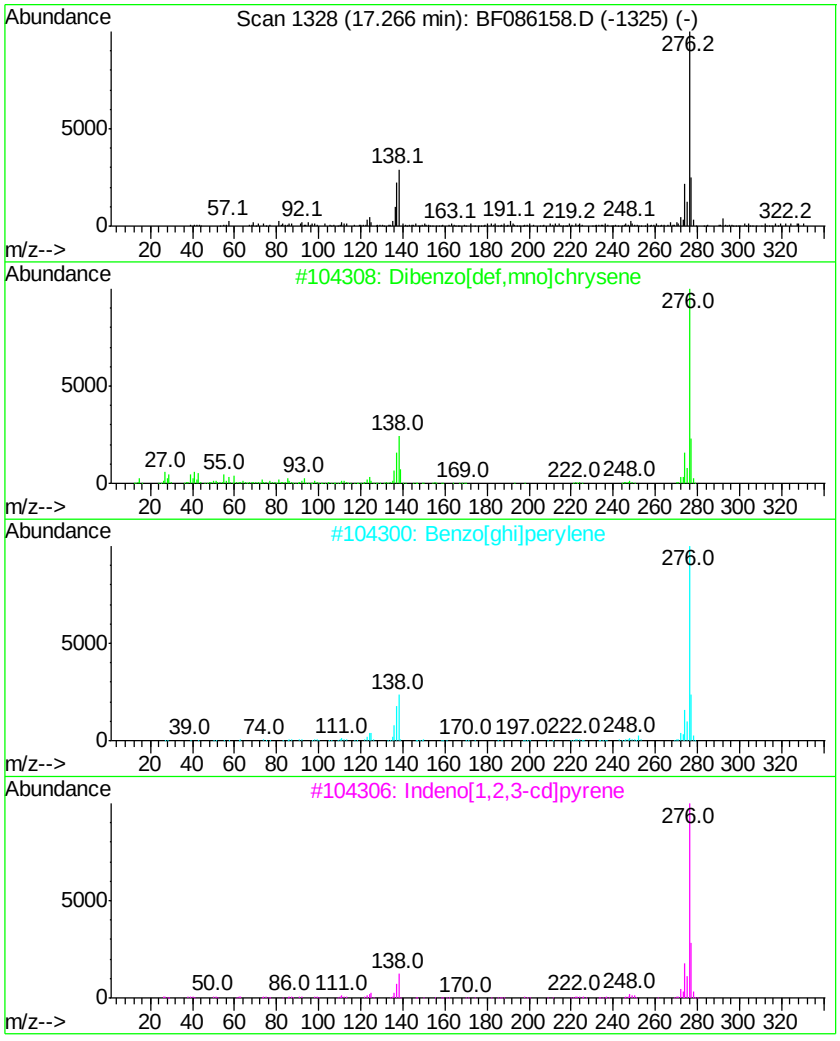
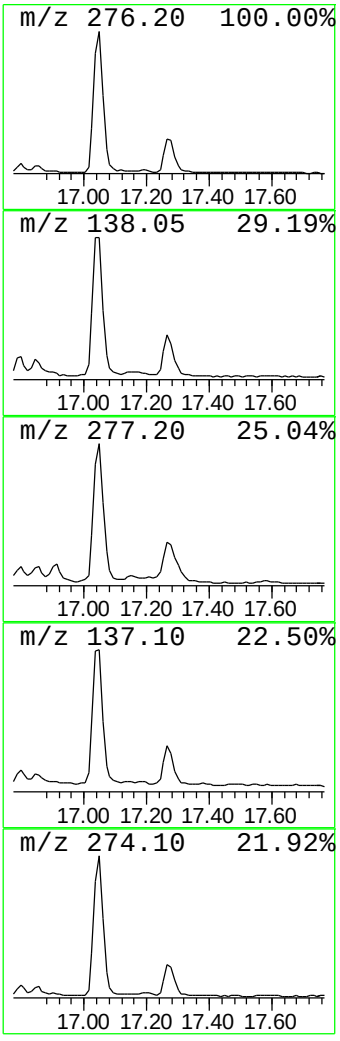
Peak Number 18 Dibenzo[def,mno]chrysene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	9.68 ng	302298	Perylene-d12	15.30

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	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	49
5	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	43





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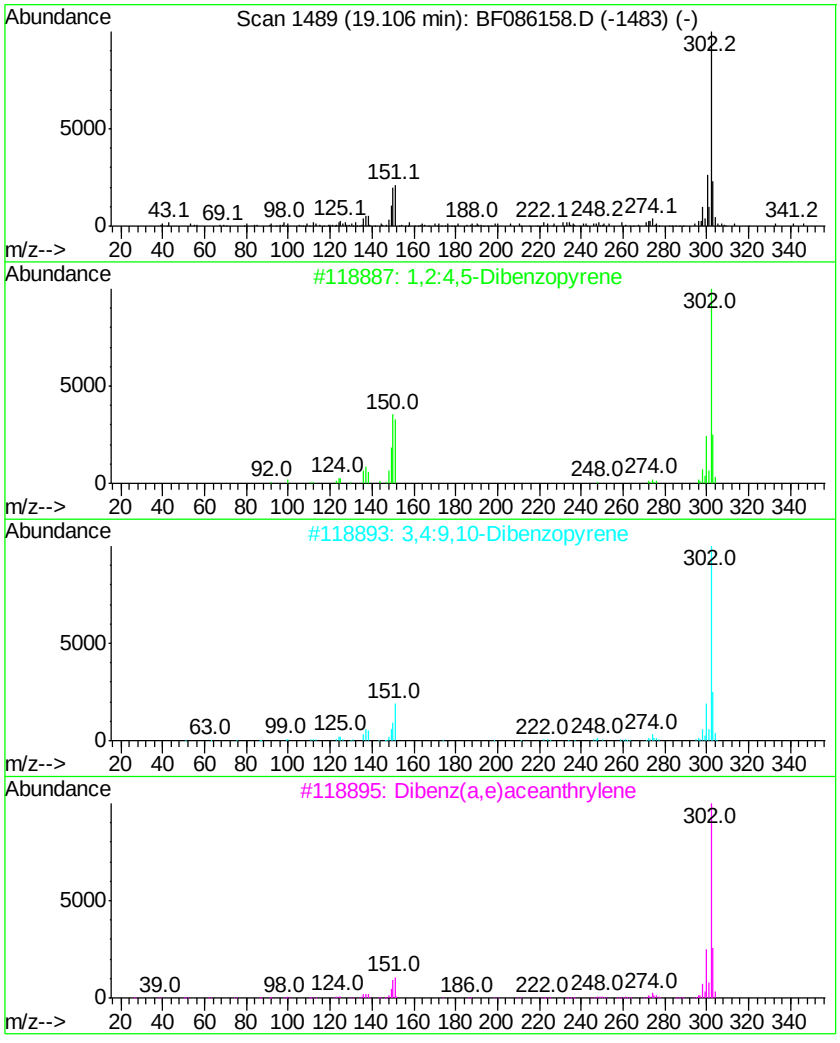
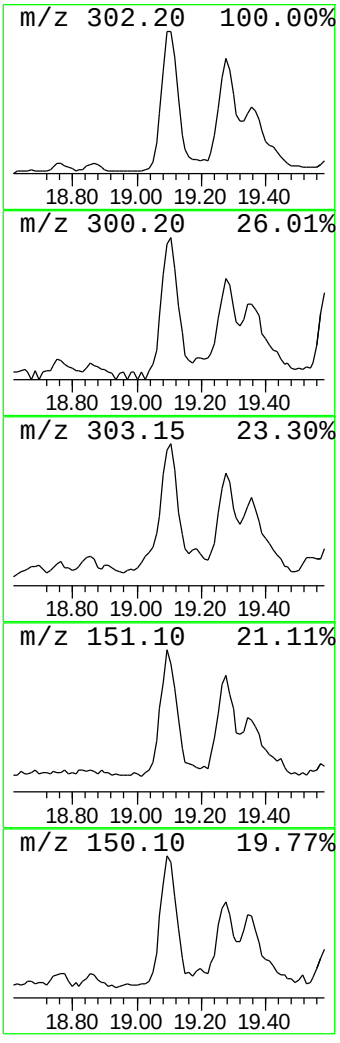
Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.11	12.10 ng	377886	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
2	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	94
3	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	93
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\
Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

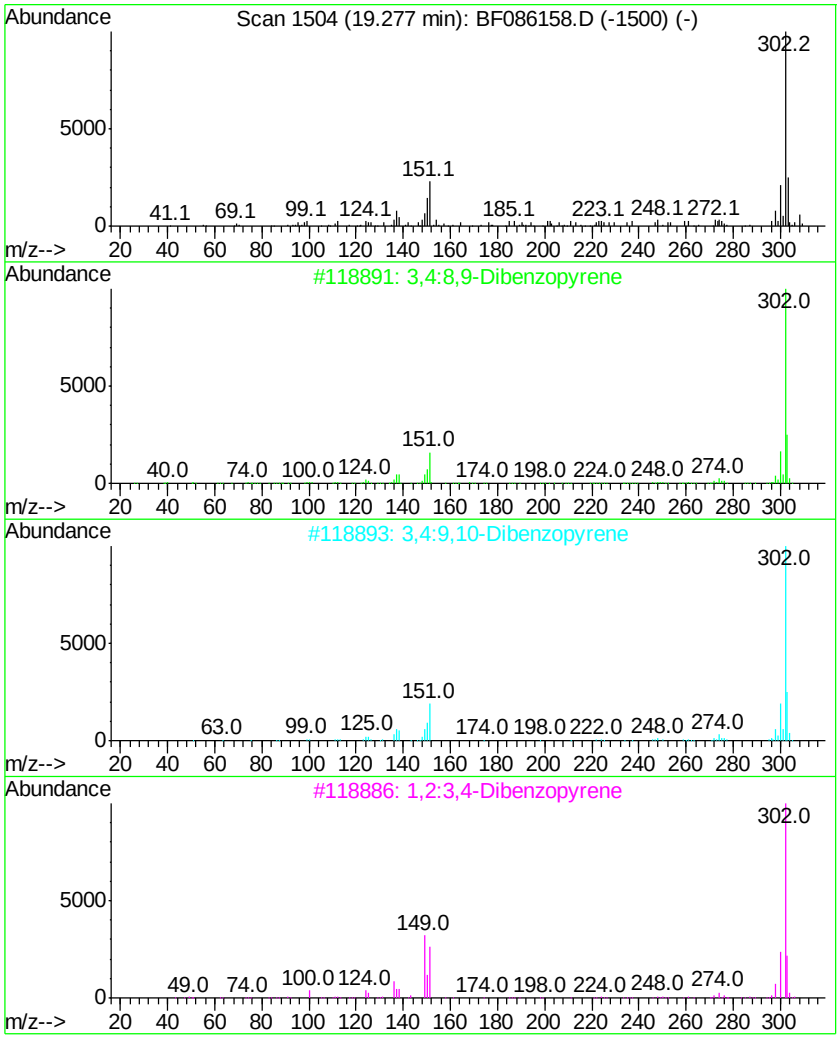
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

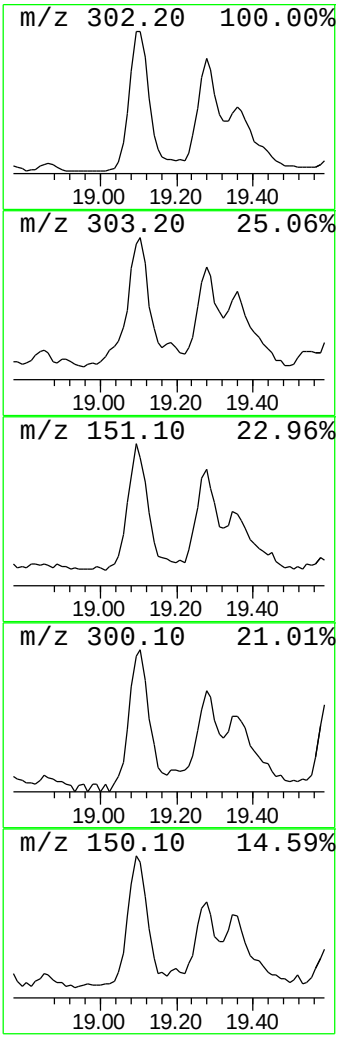
****

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	6.78 ng	211645	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	93
2	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	76
3	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	70
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	70
5	2-Methoxy-6-(4-trifluoromethylph...	302	C18H13F3O	161980-15-0	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF040716\
Data File : BF086158.D
Acq On : 8 Apr 2016 4:38
Operator : UM/SJ
Sample : H2310-02
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PEDBR-SB2-0-6.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	9.8	ng	325145	1	6.74	665756	20.0
unknown6.50	6.50	65.0	ng	2164900	1	6.74	665756	20.0
2-Bromo dodecane	10.68	3.5	ng	159138	4	11.25	921407	20.0
Phenanthrene, 2-m...	11.76	4.4	ng	202492	4	11.25	921407	20.0
Anthracene, 2-met...	11.79	10.3	ng	472932	4	11.25	921407	20.0
4H-Cyclopenta[def...	11.87	11.9	ng	549999	4	11.25	921407	20.0
unknown12.34	12.34	3.5	ng	159373	4	11.25	921407	20.0
Cyclopenta(def)ph...	12.40	3.6	ng	168100	4	11.25	921407	20.0
11H-Benzo[b]fluorene	13.03	3.9	ng	435075	5	13.89	2211260	20.0
Benzo[b]naphtho[2...	13.64	4.1	ng	454020	5	13.89	2211260	20.0
11H-Benzo[a]fluor...	13.75	4.1	ng	448674	5	13.89	2211260	20.0
Benz(A)anthracene...	14.60	4.9	ng	152144	6	15.30	624642	20.0
9H-Fluorene, 9-(p...	14.76	4.5	ng	140967	6	15.30	624642	20.0
Benzo[e]pyrene	15.00	7.4	ng	231649	6	15.30	624642	20.0
Benzo[b]triphenylene	16.80	7.8	ng	245142	6	15.30	624642	20.0
Dibenzo[def,mno]c...	17.27	9.7	ng	302298	6	15.30	624642	20.0
1,2:4,5-Dibenzopy...	19.11	12.1	ng	377886	6	15.30	624642	20.0
3,4:8,9-Dibenzopy...	19.28	6.8	ng	211645	6	15.30	624642	20.0