LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

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-BF013017.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	4.967	249	252	262	rVB	991574	1354714	33.03%	1.877%
2	5.413	289	291	294	rBV	3212363	3324601	81.05%	4.607%
3	6.464	381	383	386	rBV	2674281	3557908	86.74%	4.930%
4	6.590	391	394	396	rVV	3177503	3508874	85.54%	4.862%
5	6.807	411	413	416	rBV	698600	795075	19.38%	1.102%
6	6.967	425	427	430	rBV	2817178	2506267	61.10%	3.473%
7	7.379	461	463	466	rBV	1782815	1910608	46.58%	2.647%
8	8.099	523	526	527	rBV	1124769	1051670	25.64%	1.457%
9	8.122	527	528	530	rVB	161792	125388	3.06%	0.174%
10	8.807	587	588	591	rBV	86561	75902	1.85%	0.105%
11	8.910	592	597	599	rBV	90523	98723	2.41%	0.137%
12	9.173	617	620	622	rBV	3540749	3180394	77.53%	4.407%
13	9.436	641	643	645	rBV	46016	67457	1.64%	0.093%
14	9.505	647	649	651	rBV	90725	120951	2.95%	0.168%
15	9.573	653	655	657	rVV	189396	232285	5.66%	0.322%
16	9.630	657	660	665	rVV	31394	57523	1.40%	0.080%
17	9.710	665	667	669	rBV	543656	471964	11.51%	0.654%
18	9.779	672	673	675	rVB	58570	46032	1.12%	0.064%
19	9.848	677	679	681	rVV	1058416	932785	22.74%	1.293%
20	9.882	681	682	684	rVB	216862	162474	3.96%	0.225%
21	10.008	690	693	694	rBV2	51770	79777	1.94%	0.111%
22	10.053	695	697	699	rVB	154728	146542	3.57%	0.203%
23	10.099	699	701	702	rVB2	40382	53628	1.31%	0.074%
24	10.168	705	707	708	rBV	52106	75016	1.83%	0.104%
25	10.282	713	717	718	rBV3	82204	199850	4.87%	0.277%
26	10.396	725	727	730	rVB	265549	255474	6.23%	0.354%
27	10.499	730	736	738	rBV4	93915	322841	7.87%	0.447%
28	10.556	739	741	742	rVB	63080	67974	1.66%	0.094%
29	10.636	746	748	751	rBV2	1134871	1435872	35.00%	1.990%
30	10.762	756	759	762	rVB2	242023	366362	8.93%	0.508%
31	10.945	772	775	776	rBV2	97114	136850	3.34%	0.190%
32	11.093	784	788	790	rBV3	92649	170400	4.15%	0.236%
33	11.139	790	792	794	rVV	163850	200264	4.88%	0.277%
34	11.196	794	797	798	rVV2	147304	168555	4.11%	0.234%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

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-BF013017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.231	798	800	803	rVB	300253	310754	7.58%	0.431%
36	11.333	807	809	810	rBV	870624	882751	21.52%	1.223%
37	11.356	810	811	813	rVV	2120267	2436499	59.40%	3.376%
38	11.413	813	816	817	rVV	638097	600740	14.64%	0.832%
39	11.448	817	819	820	rVB2	75000	74967	1.83%	0.104%
40	11.573	826	830	833	rBV2	266238	372824	9.09%	0.517%
41	11.631	833	835	836	rVB2	100540	129906	3.17%	0.180%
42	11.665	836	838	841	rVB2	182096	222810	5.43%	0.309%
43	11.745	843	845	847	rVB2	107887	143928	3.51%	0.199%
44	11.791	847	849	851	rBV	74418	93066	2.27%	0.129%
45	11.836	851	853	854	rBV	752691	671721	16.38%	0.931%
46	11.871	854	856	857	rVB	720942	794784	19.38%	1.101%
47	11.916	857	860	861	rBV	205421	213426	5.20%	0.296%
48	11.951	861	863	867	rVB2	931950	1547366	37.72%	2.144%
49	12.031	867	870	872	rBV3	80632	171661	4.18%	0.238%
50	12.065	872	873	875	rVB	53736	72841	1.78%	0.101%
51	12.134	877	879	880	rBV	344287	336568	8.20%	0.466%
52	12.168	880	882	884	rVB	521962	544324	13.27%	0.754%
53	12.202	884	885	886	rBV	83433	74259	1.81%	0.103%
54	12.282	889	892	893	rBV2	215738	305613	7.45%	0.423%
55	12.316	893	895	898	rVB2	176560	347181	8.46%	0.481%
56	12.385	899	901	903	rBV	562191	692799	16.89%	0.960%
57	12.419	903	904	907	rVB2	321233	409975	9.99%	0.568%
58	12.476	907	909	911	rVB2	441658	495583	12.08%	0.687%
59	12.556	913	916	918	rBV	3544393	3582595	87.34%	4.964%
60	12.614	918	921	922	rBV2	185155	256468	6.25%	0.355%
61	12.648	922	924	925	rVB	200741	195834	4.77%	0.271%
62	12.694	925	928	930	rBV2	271727	396194	9.66%	0.549%
63	12.785	933	936	938	rBV	3425884	4102021	100.00%	5.684%
64	12.831	938	940	944	rVB2	227793	366749	8.94%	0.508%
65	12.922	944	948	950	rBV	2583179	2885133	70.33%	3.998%
66	13.002	952	955	958	rBV2	401589	722394	17.61%	1.001%
67	13.105	960	964	966	rVB	572002	1023691	24.96%	1.418%
68	13.151	966	968	969	rBV2	79284	150083	3.66%	0.208%
69	13.174	969	970	971	rBV	282660	219369	5.35%	0.304%
70	13.208	971	973	977	rVB3	520092	825808	20.13%	1.144%
71	13.299	980	981	983	rBV	326752	377003	9.19%	0.522%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

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-BF013017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.334	983	984	988	rVB	439462	423994	10.34%	0.588%
73	13.425	990	992	993	rVB	85768	105210	2.56%	0.146%
74	13.482	996	997	999	rBV2	98635	176927	4.31%	0.245%
75	13.528	999	1001	1002	rVB	91145	74255	1.81%	0.103%
76	13.619	1005	1009	1011	rBV	597855	681829	16.62%	0.945%
77	13.677	1013	1014	1016	rBV	83355	65374	1.59%	0.091%
78	13.722	1016	1018	1019	rBV	461281	560899	13.67%	0.777%
79	13.779	1022	1023	1025	rBV2	236486	298872	7.29%	0.414%
80	13.825	1025	1027	1031	rVB2	442450	659428	16.08%	0.914%
81	13.894	1031	1033	1036	rBV2	100918	169204	4.12%	0.234%
82	13.974	1037	1040	1042	rBV2	1997463	3492887	85.15%	4.840%
83	14.008	1042	1043	1045	rVV	1849804	1354434	33.02%	1.877%
84	14.088	1047	1050	1051	rBV2	123388	229359	5.59%	0.318%
85	14.134	1051	1054	1058	rBV4	155620	392299	9.56%	0.544%
86	14.328	1069	1071	1072	rBV	151591	145428	3.55%	0.202%
87	14.362	1072	1074	1076	rVV	460665	592301	14.44%	0.821%
88	14.397	1076	1077	1079	rVV	281617	305009	7.44%	0.423%
89	14.442	1079	1081	1084	rVV4	181184	423929	10.33%	0.587%
90	14.488	1084	1085	1088	rVV2	270032	428958	10.46%	0.594%
91	14.557	1089	1091	1094	rVB2	144996	200228	4.88%	0.277%
92	14.842	1115	1116	1118	rBV2	123324	153448	3.74%	0.213%
93	15.002	1127	1130	1137	rBV	1166577	2360761	57.55%	3.271%
94	15.105	1137	1139	1141	rBV	240711	267974	6.53%	0.371%
95	15.288	1152	1155	1158	rVB	643616	847539	20.66%	1.174%
96	15.345	1158	1160	1163	rBV	792043	1164461	28.39%	1.614%
97	15.402	1163	1165	1167	rBV	391420	575937	14.04%	0.798%
98	16.808	1284	1288	1291	rBV	397083	815109	19.87%	1.129%
99	16.968	1299	1302	1304	rBV	96618	212291	5.18%	0.294%
100	17.231	1321	1325	1332	rVB	301323	679689	16.57%	0.942%

Sum of corrected areas: 72168721

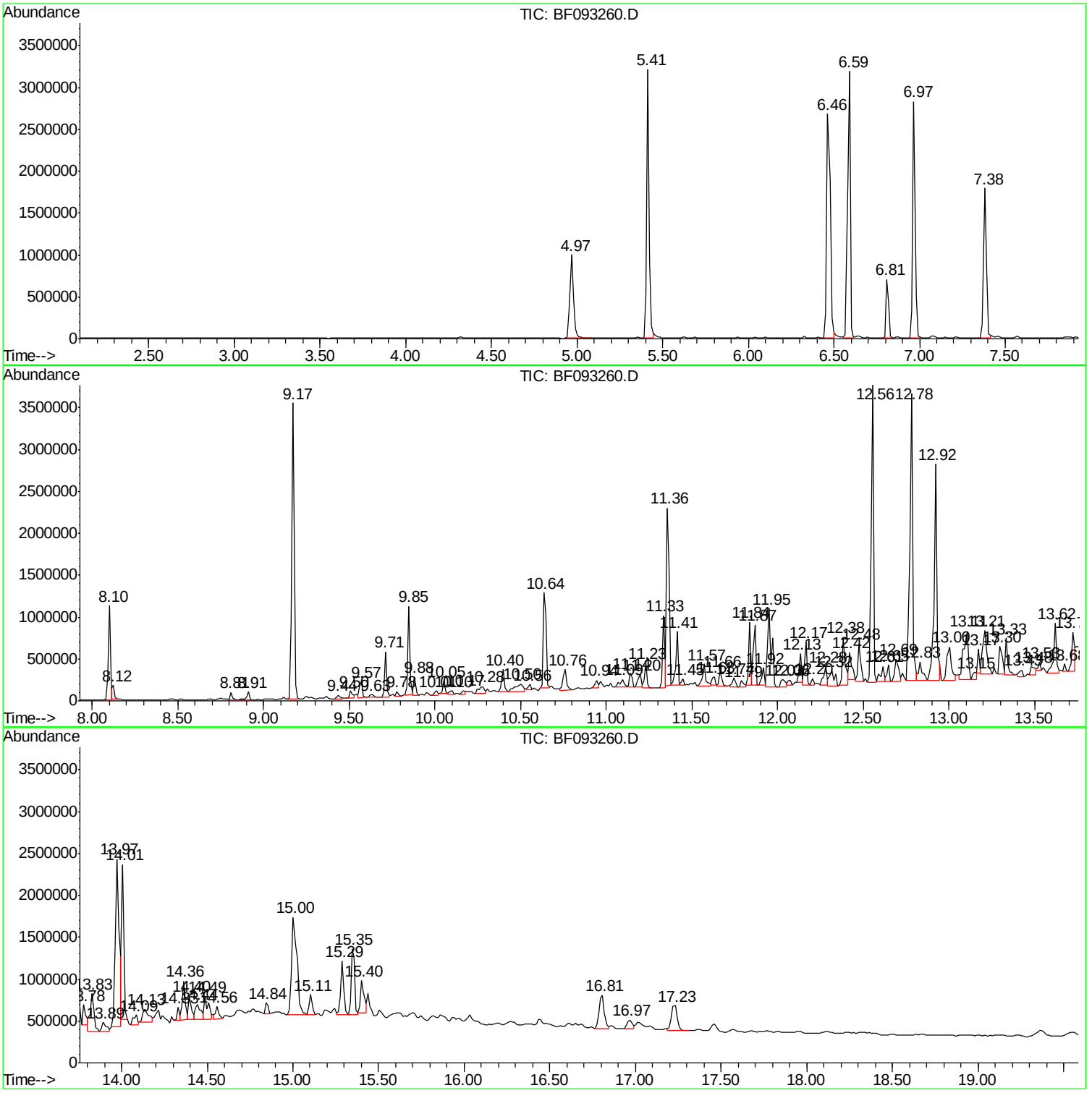
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

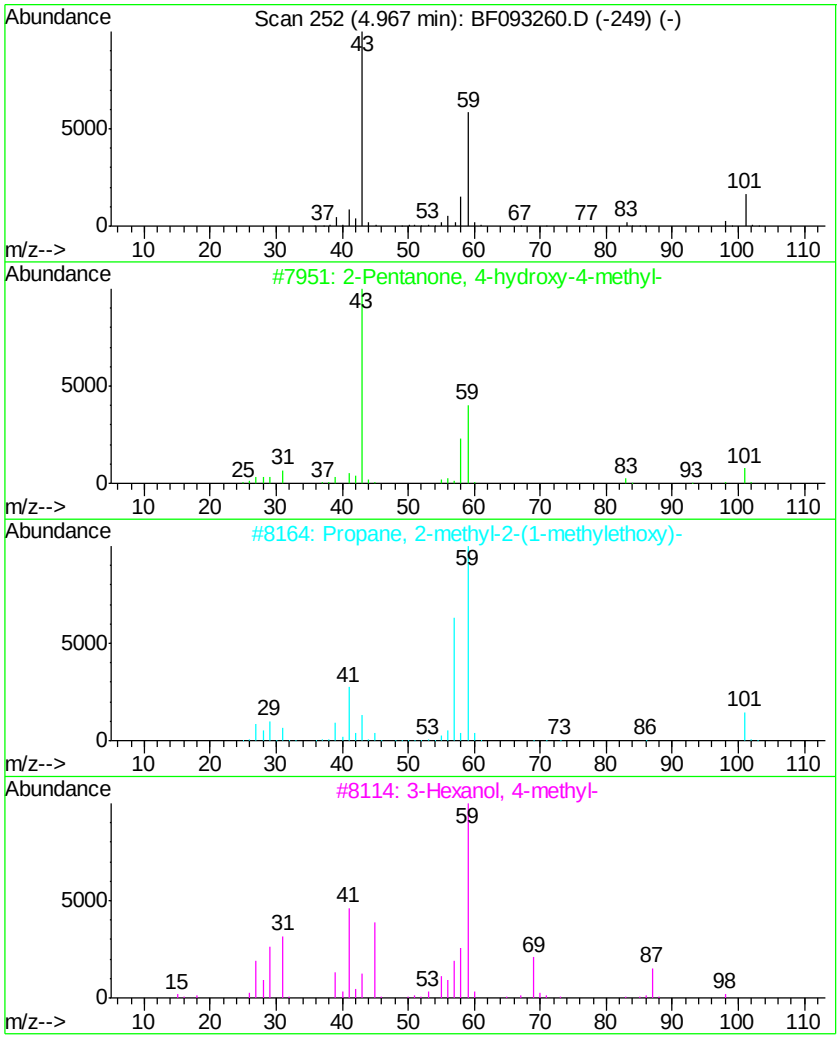
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

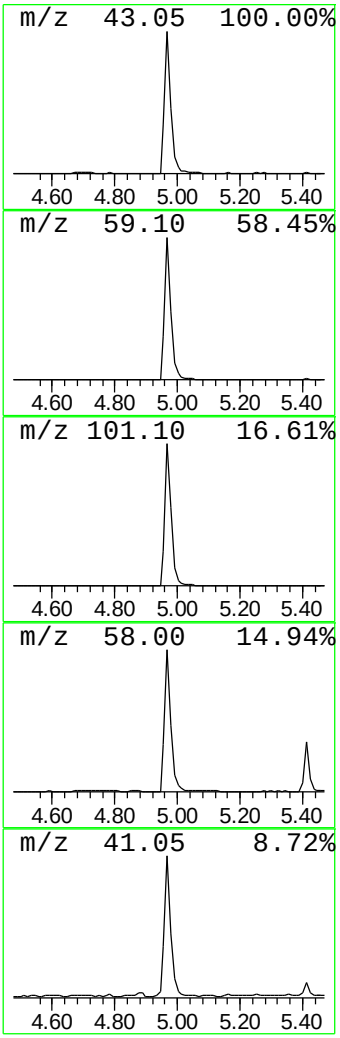
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.97	34.08 ng	1354710	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

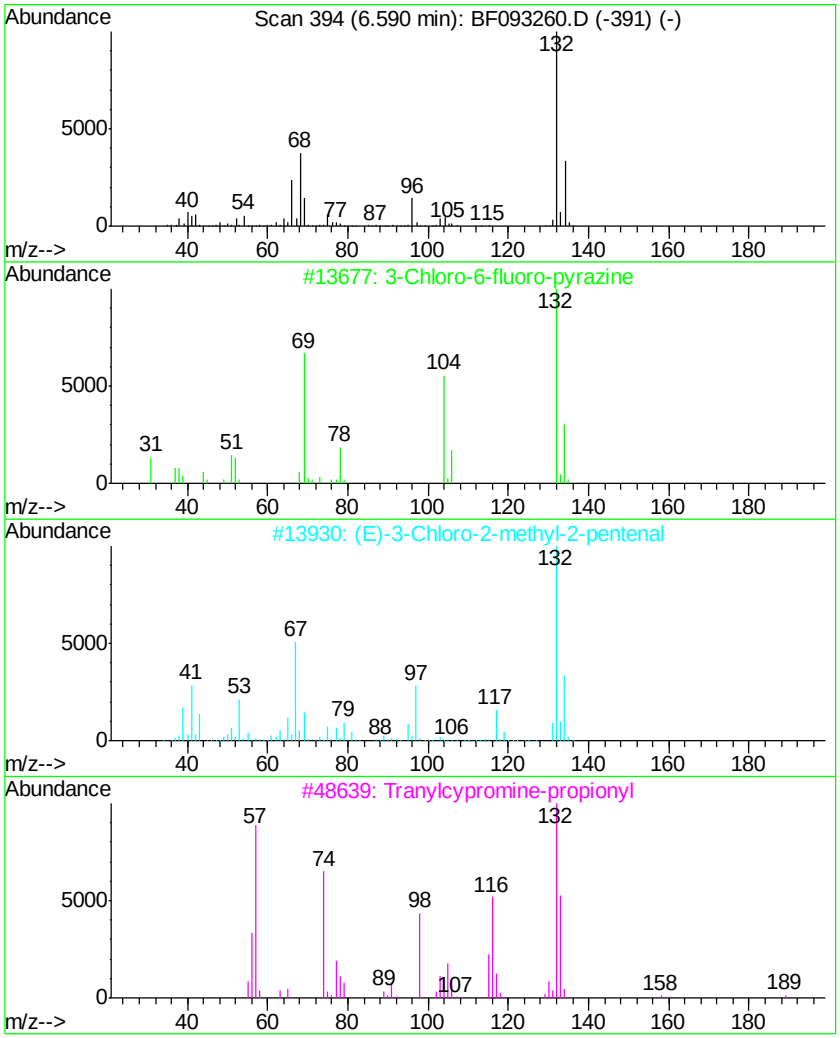
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

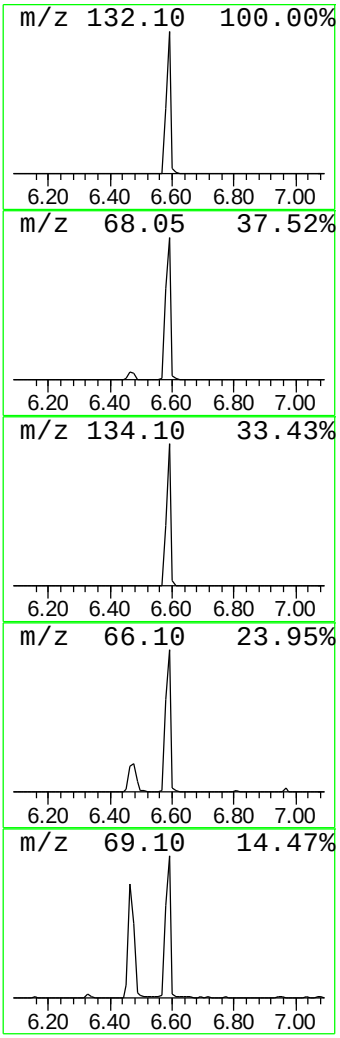
****

Peak Number 2 unknown6.59 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	88.27 ng	3508870	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

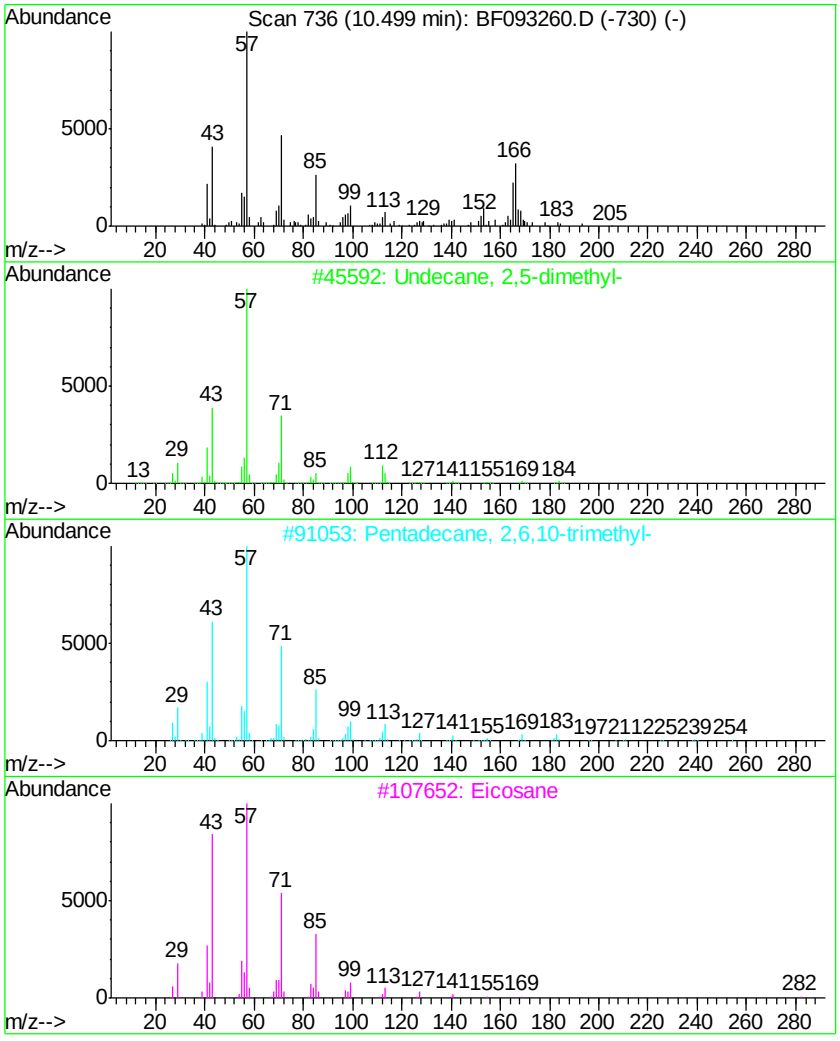
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

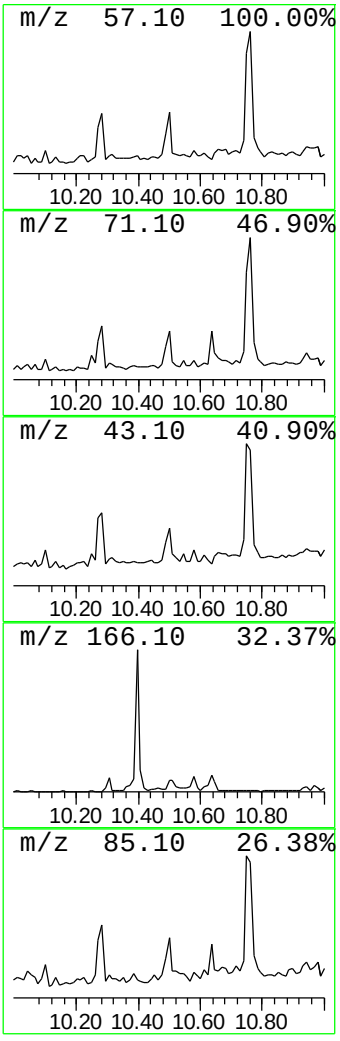
****

Peak Number 4 Undecane, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.50	6.92 ng	322841	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	50
2	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	49
3	Eicosane	282	C20H42	000112-95-8	49
4	Pentadecane	212	C15H32	000629-62-9	49
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	47





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

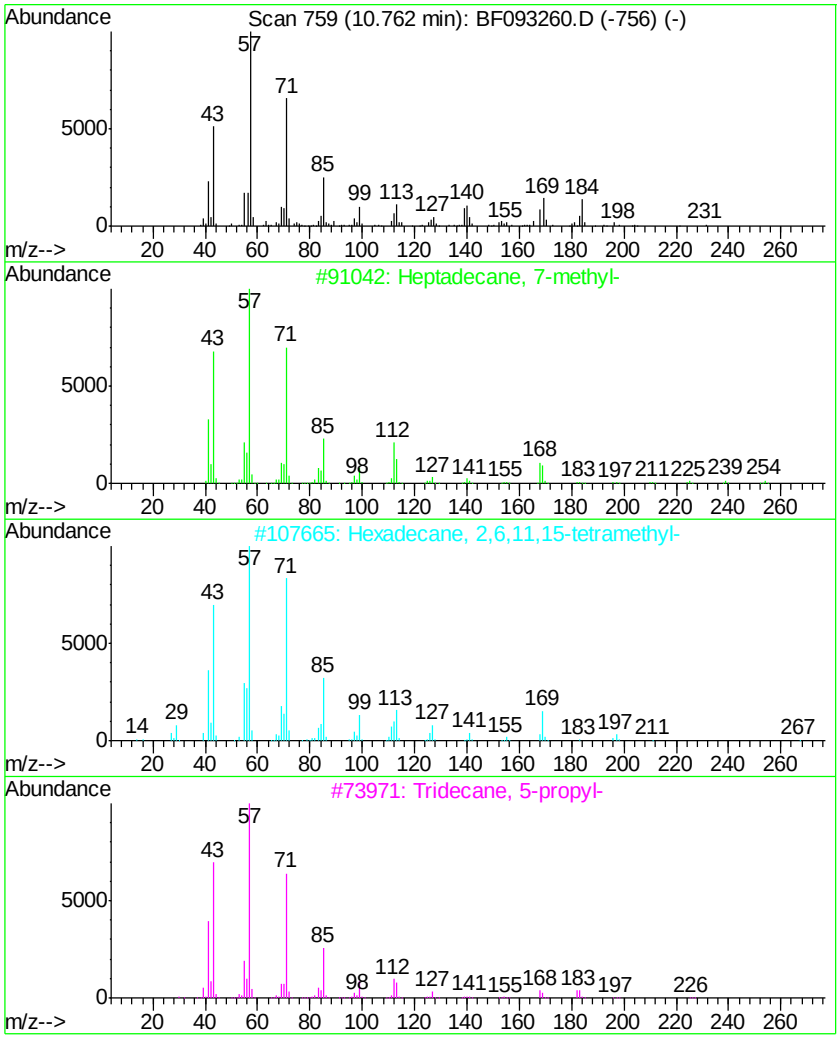
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

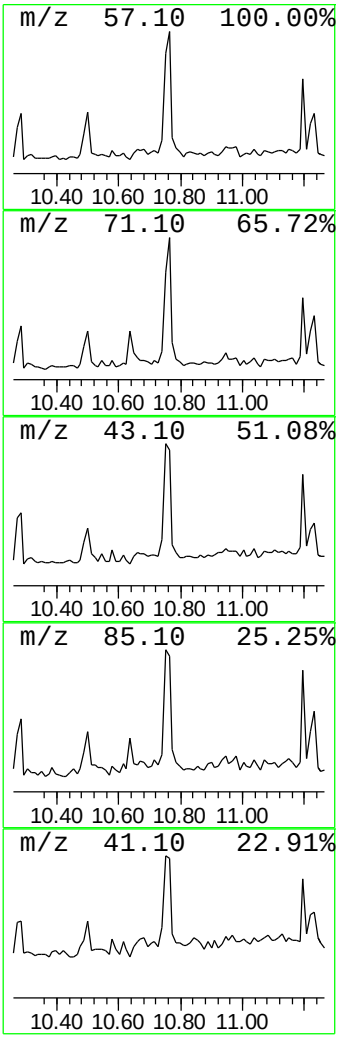
****

Peak Number 5 Heptadecane, 7-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	8.30 ng	366362	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 7-methyl-	254	C18H38	020959-33-5	64
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	62
3	Tridecane, 5-propyl-	226	C16H34	055045-11-9	58
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	58
5	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	58





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

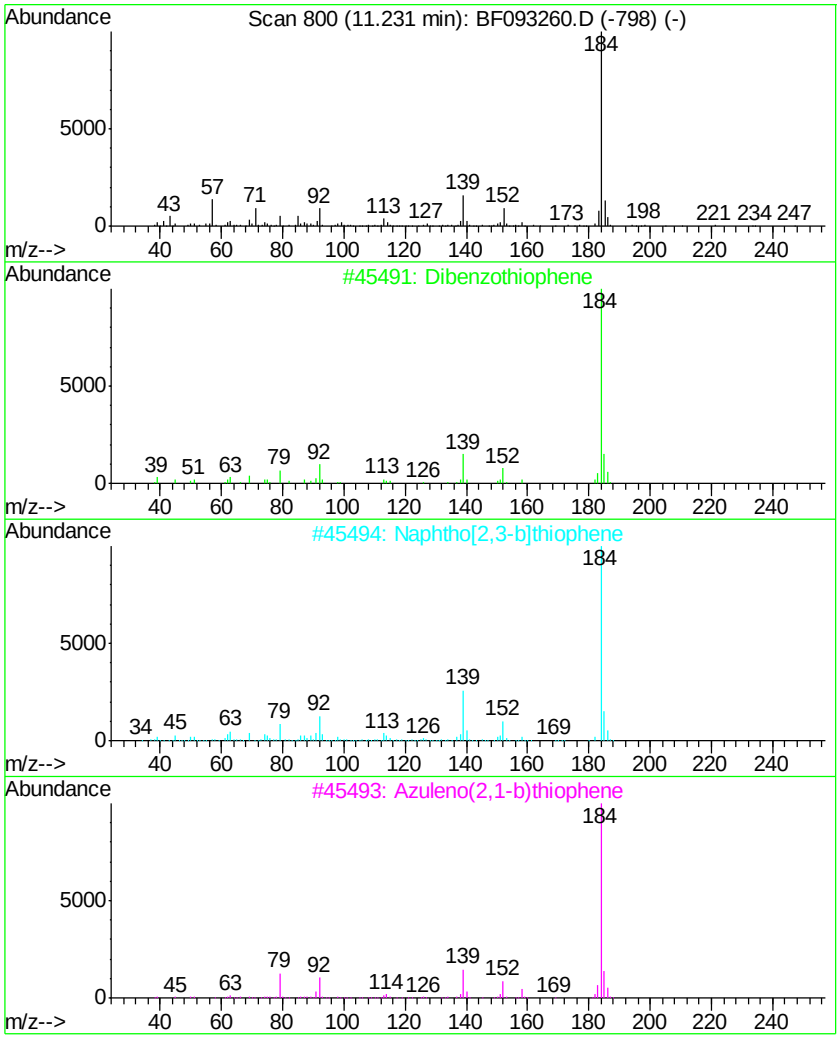
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

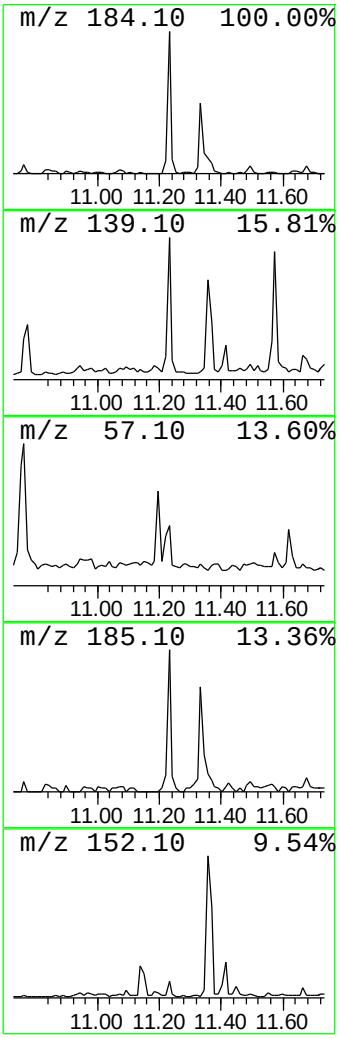
****

Peak Number 6 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	7.04 ng	310754	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	64





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

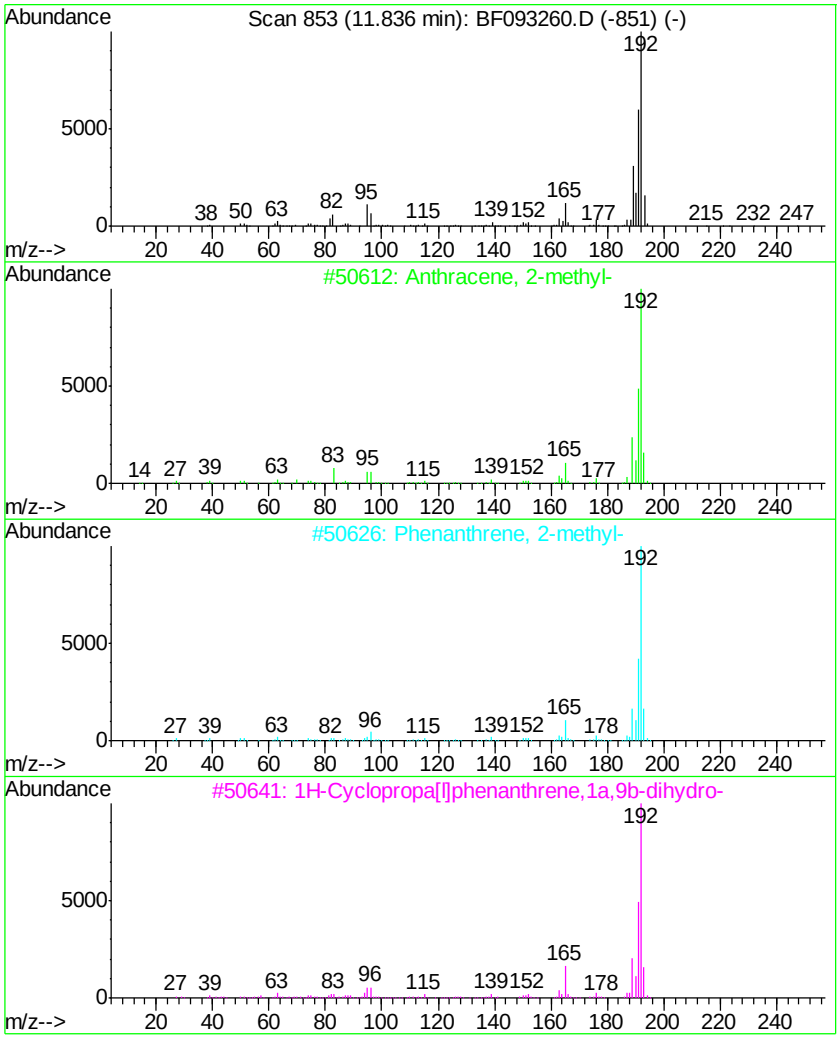
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

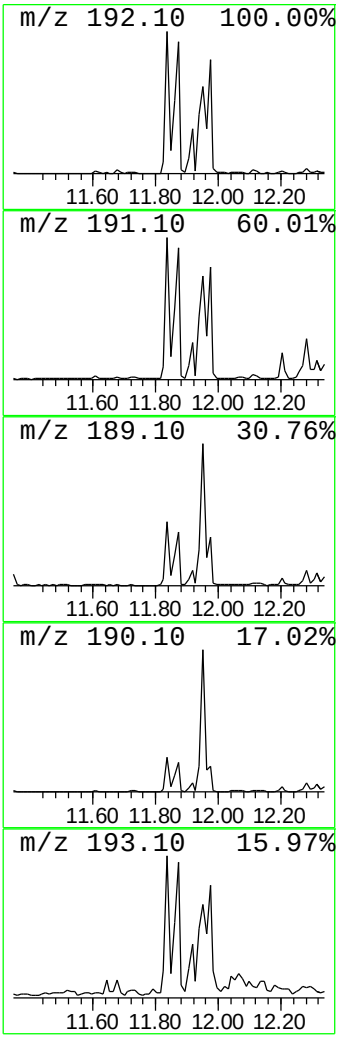
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	15.22 ng	671721	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

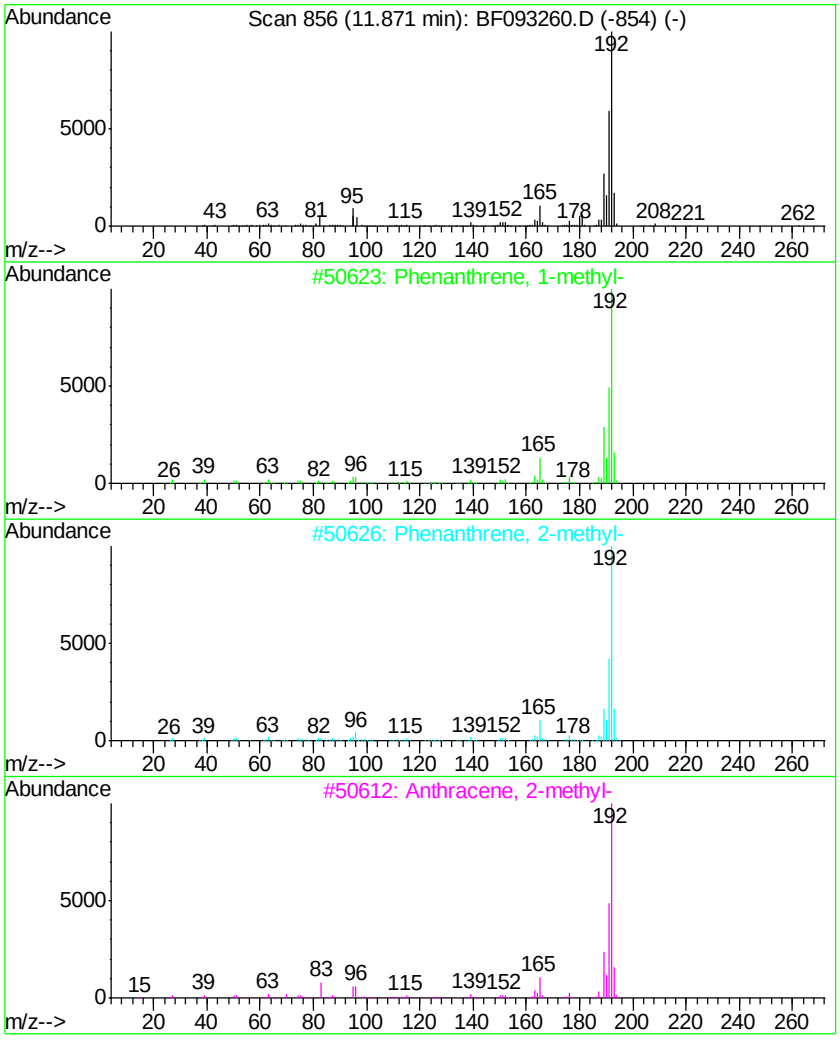
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

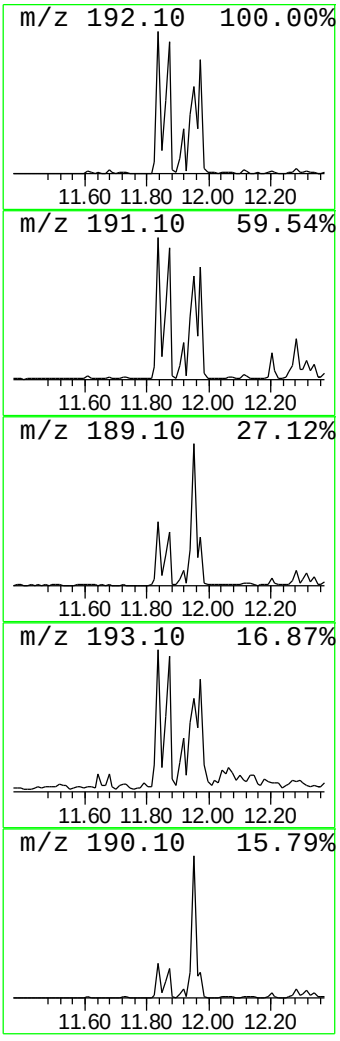
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	18.01 ng	794784	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

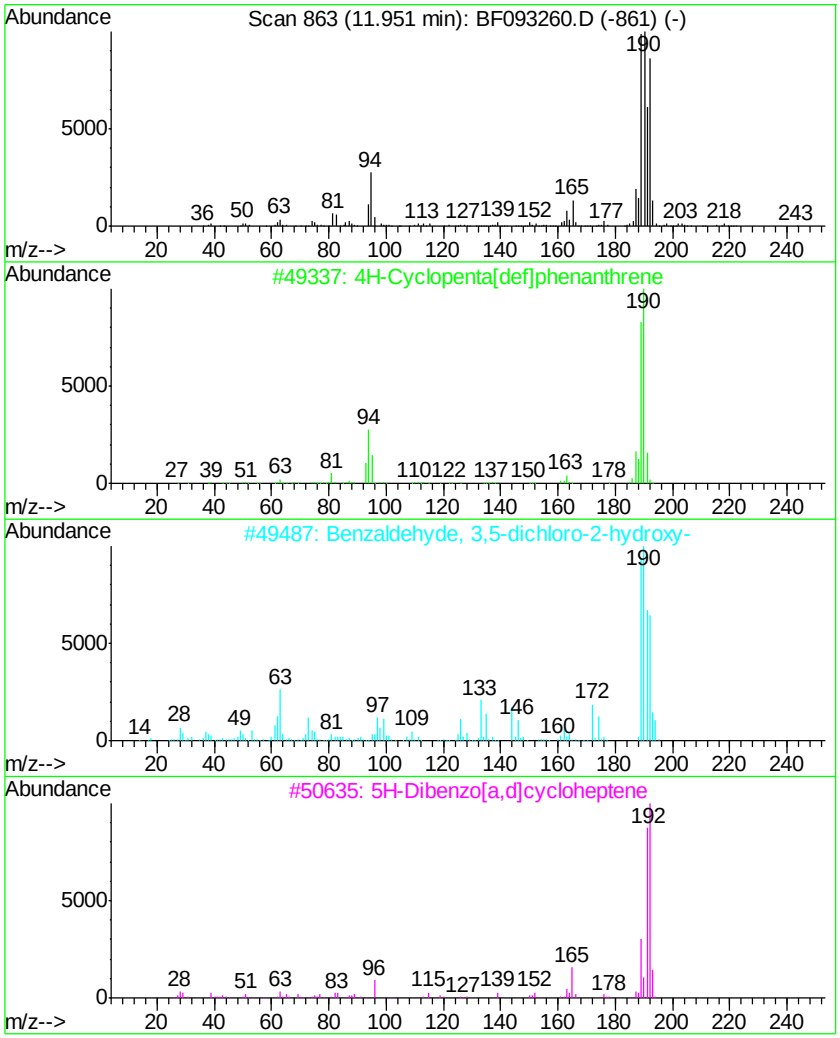
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

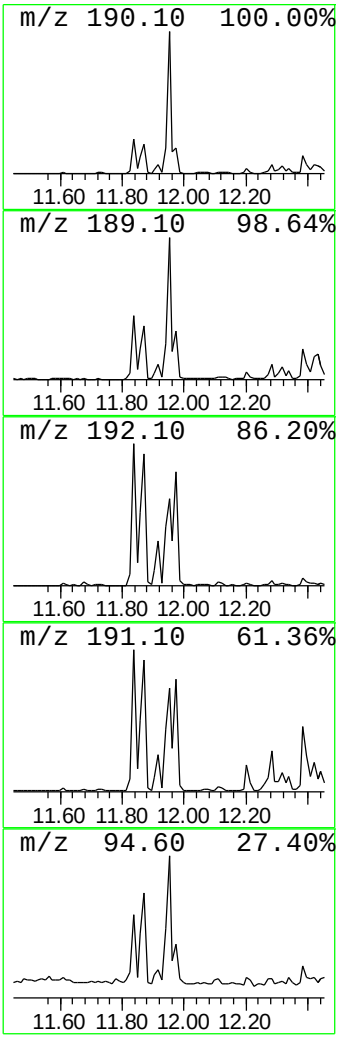
****

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	35.06 ng	1547370	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	38
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

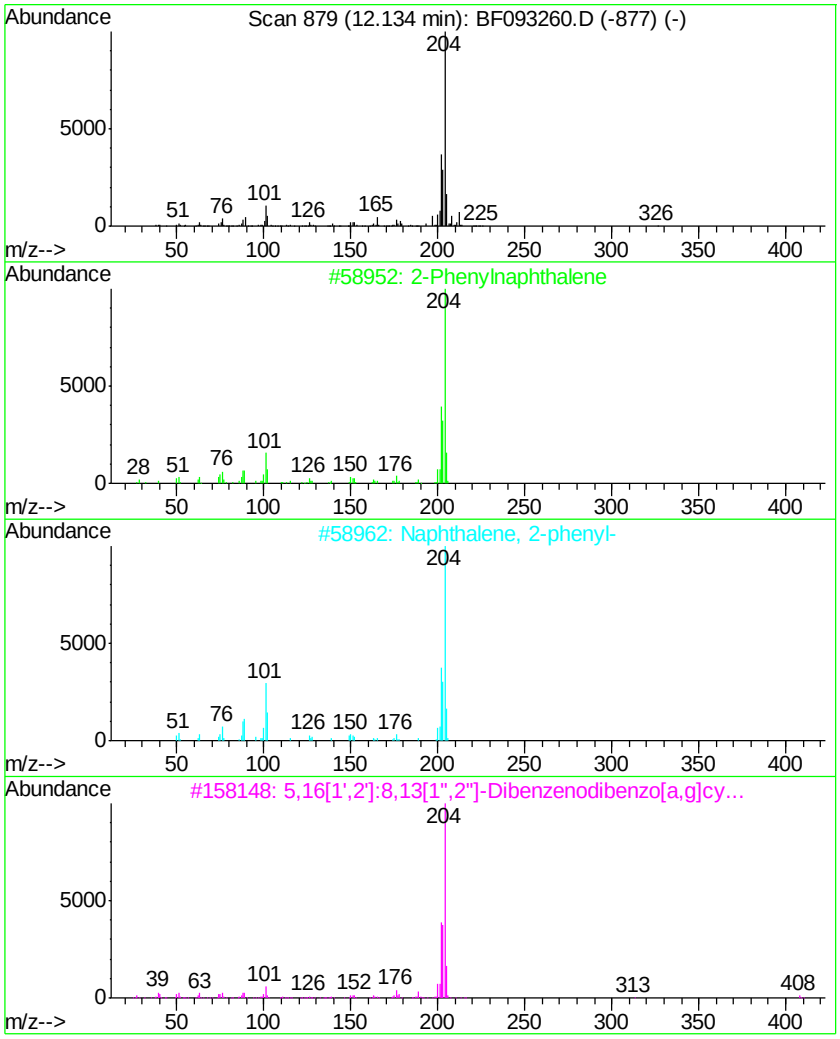
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

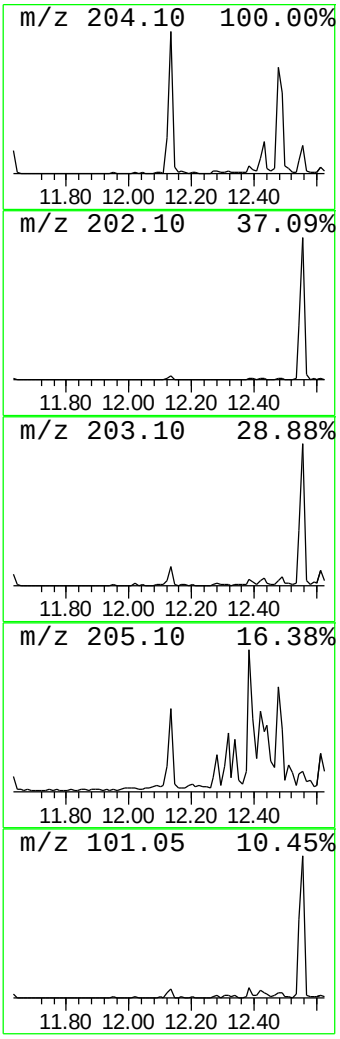
****

Peak Number 10 2-Phenylnaphthalene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	7.63 ng	336568	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	95
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

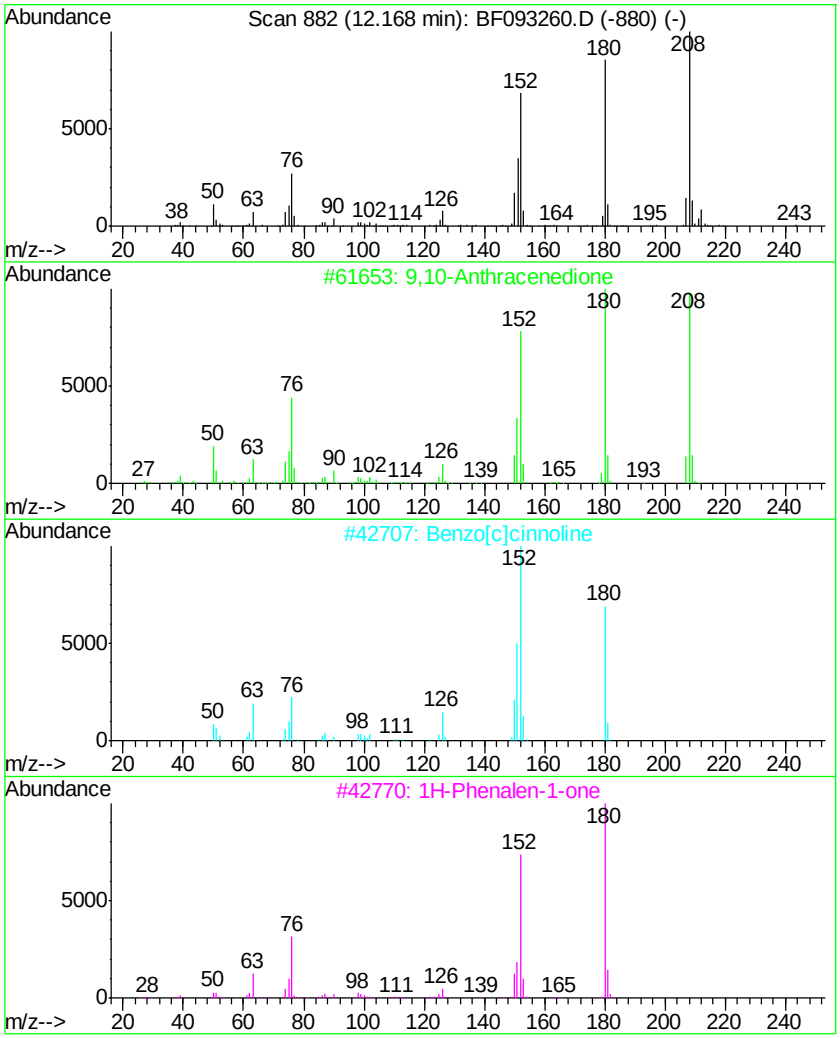
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

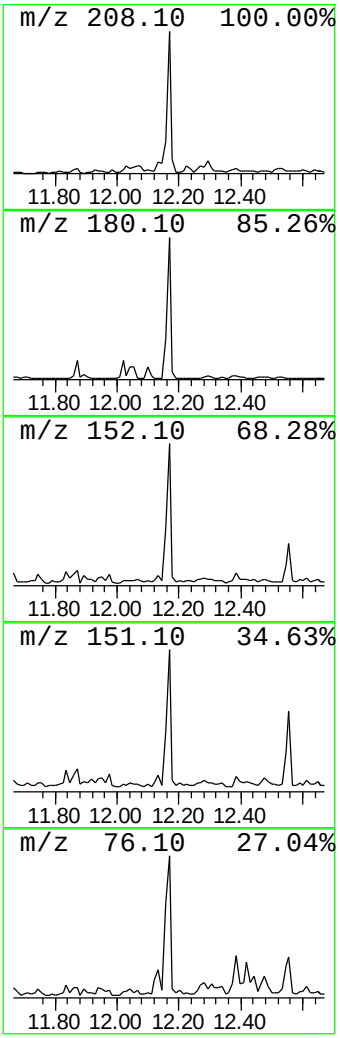
****

Peak Number 11 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	12.33 ng	544324	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	49
5	1,3-Benzenedicarboxaldehyde, 2,4...	180	C9H8O4	010209-57-1	38





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

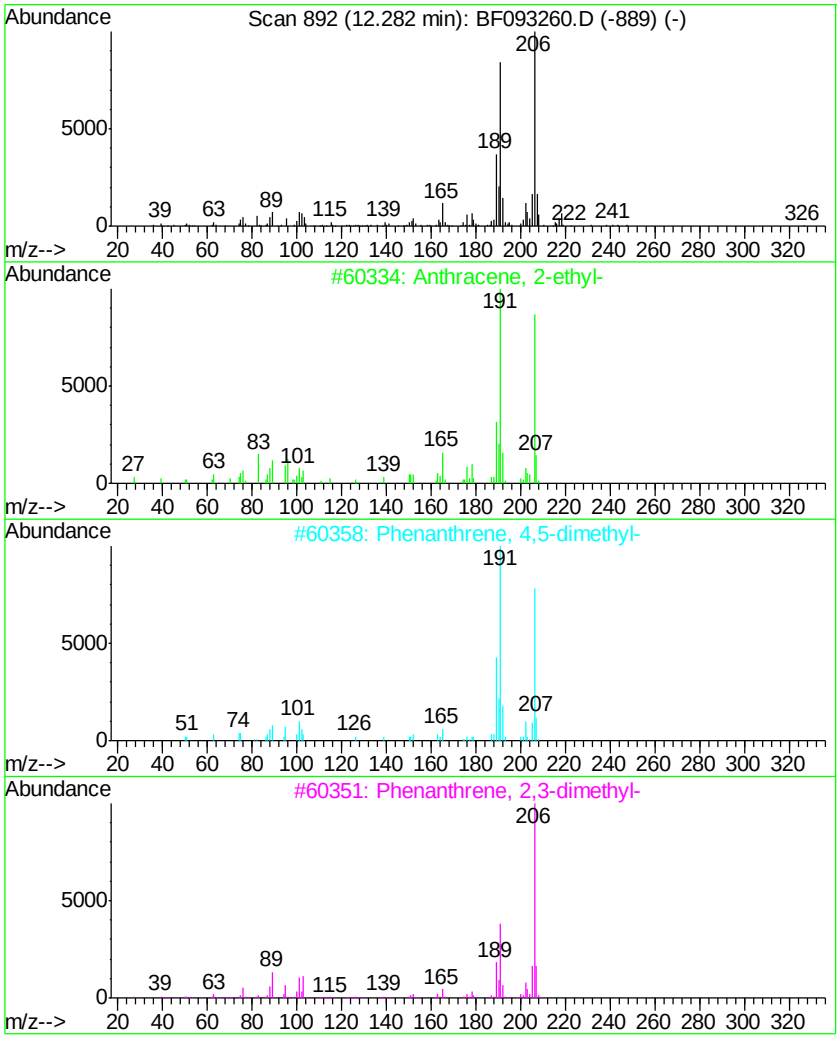
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

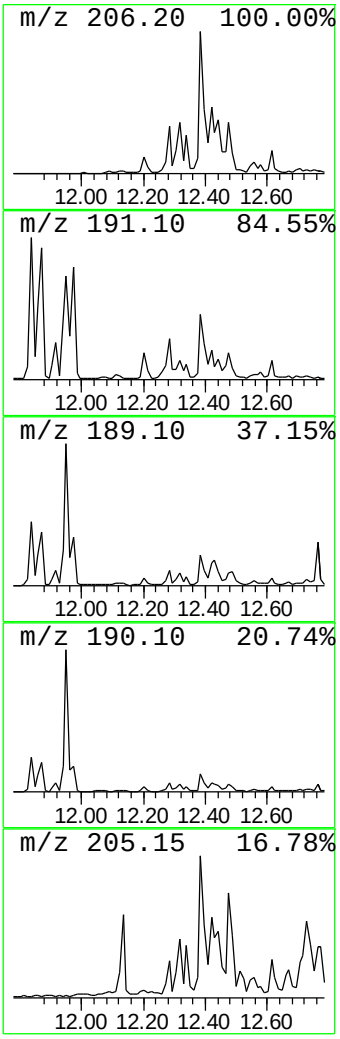
****

Peak Number 12 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.92 ng	305613	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
4	Phenanthrene, 2-ethyl-	206	C16H14	003674-74-6	81
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	80





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

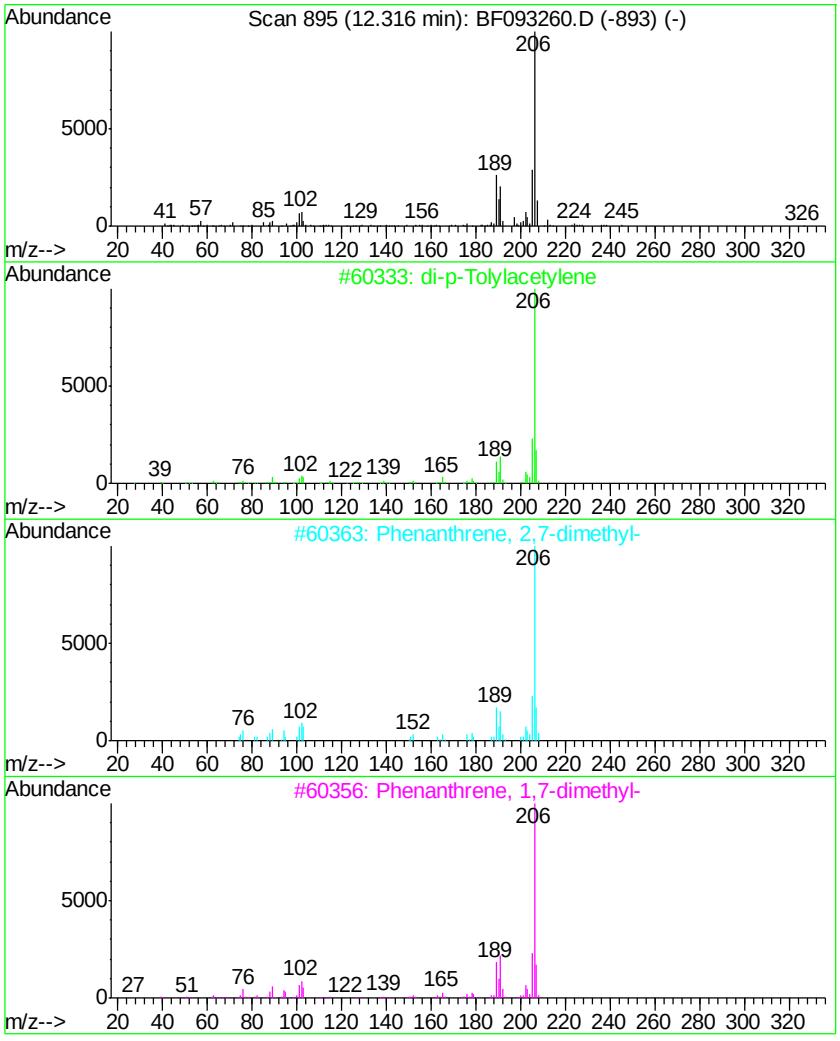
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

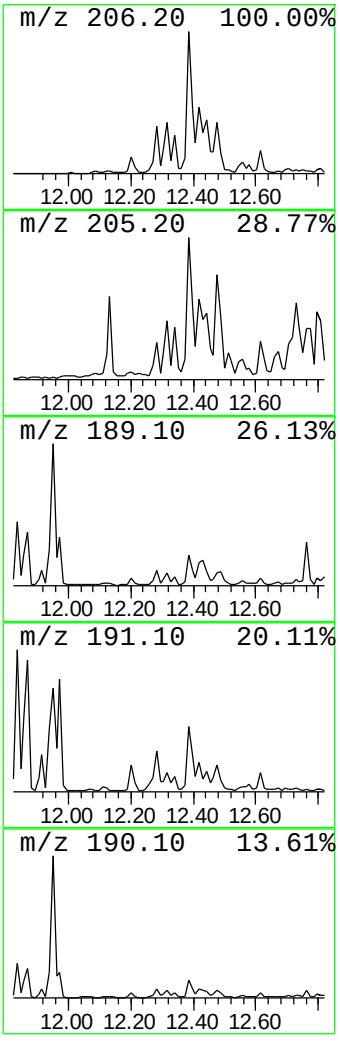
****

Peak Number 13 di-p-Tolylacetylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	7.87 ng	347181	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	83
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	74
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	72
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	72





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

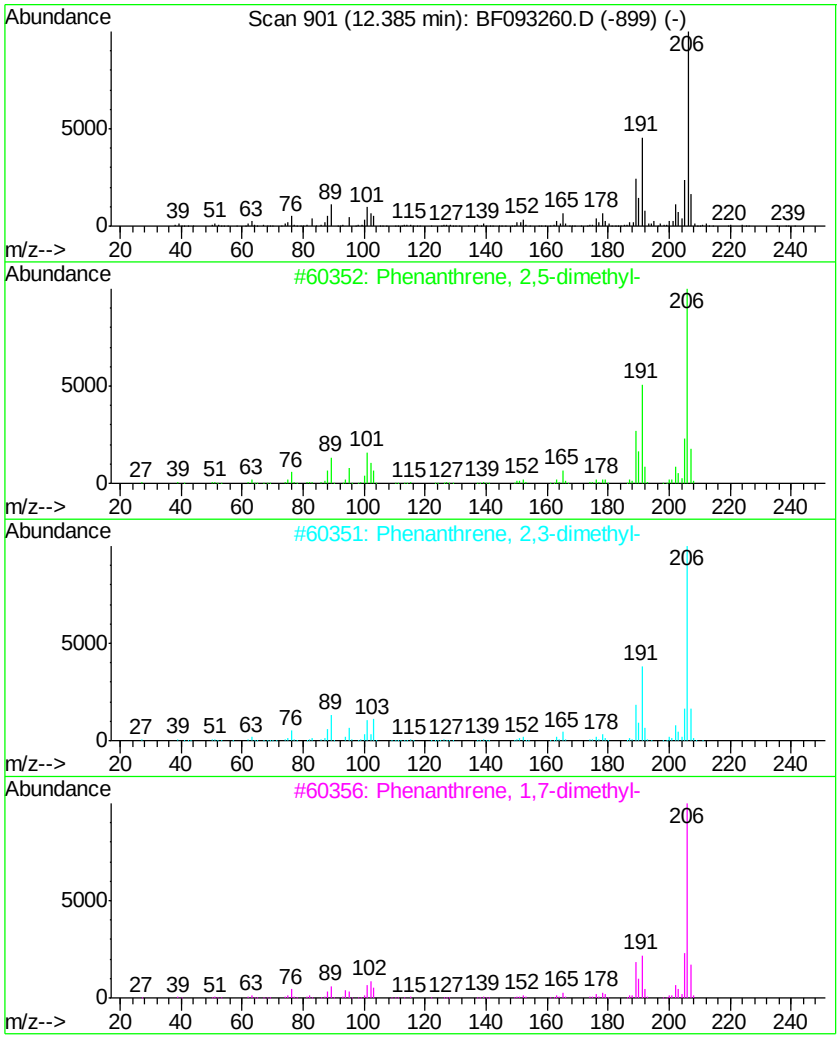
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

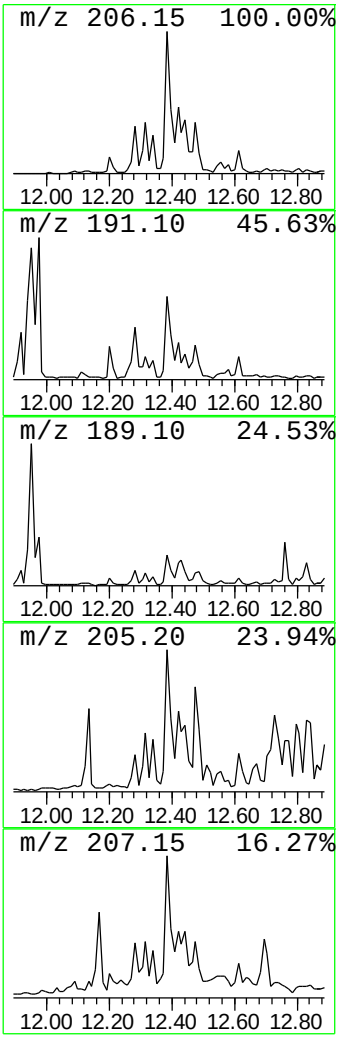
****

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	15.70 ng	692799	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

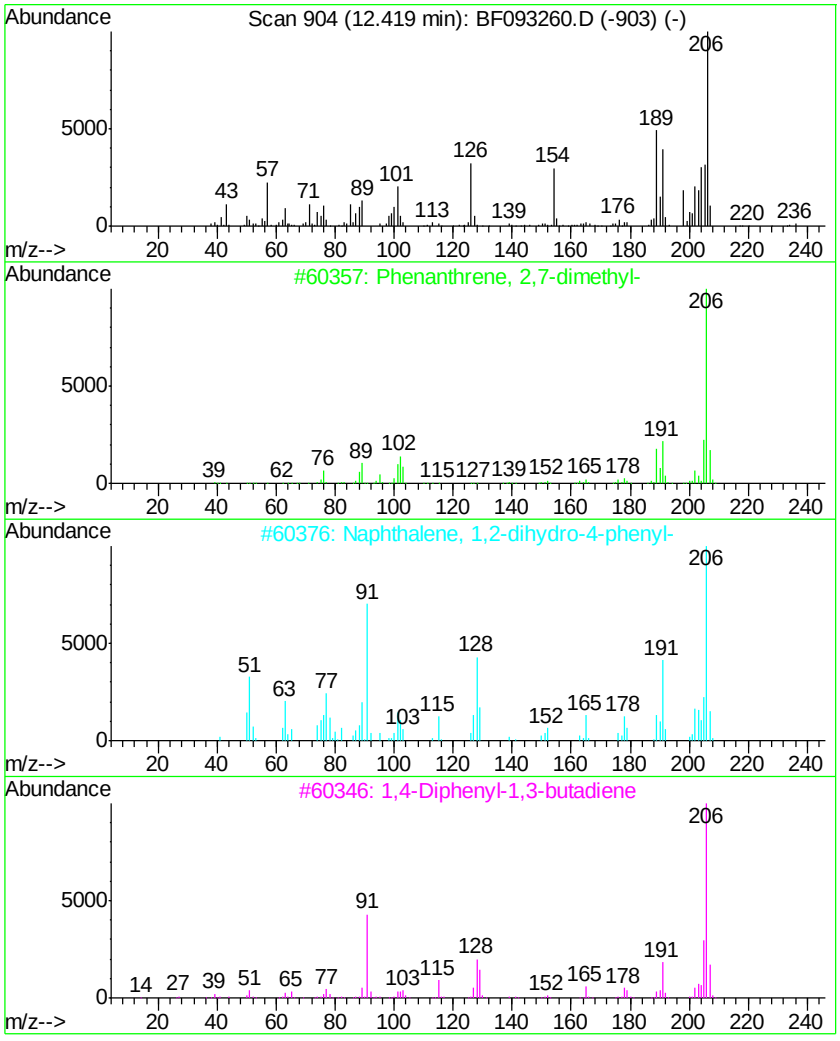
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

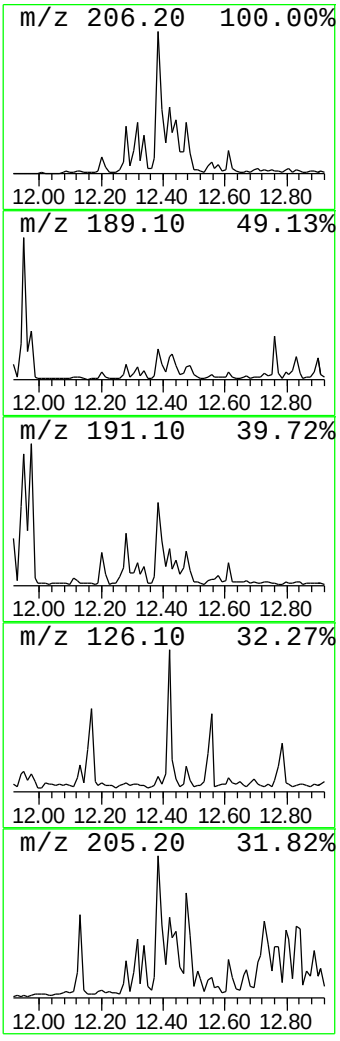
****

Peak Number 15 unknown12.42 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	9.29 ng	409975	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	43
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	43
3	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	38
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	37





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

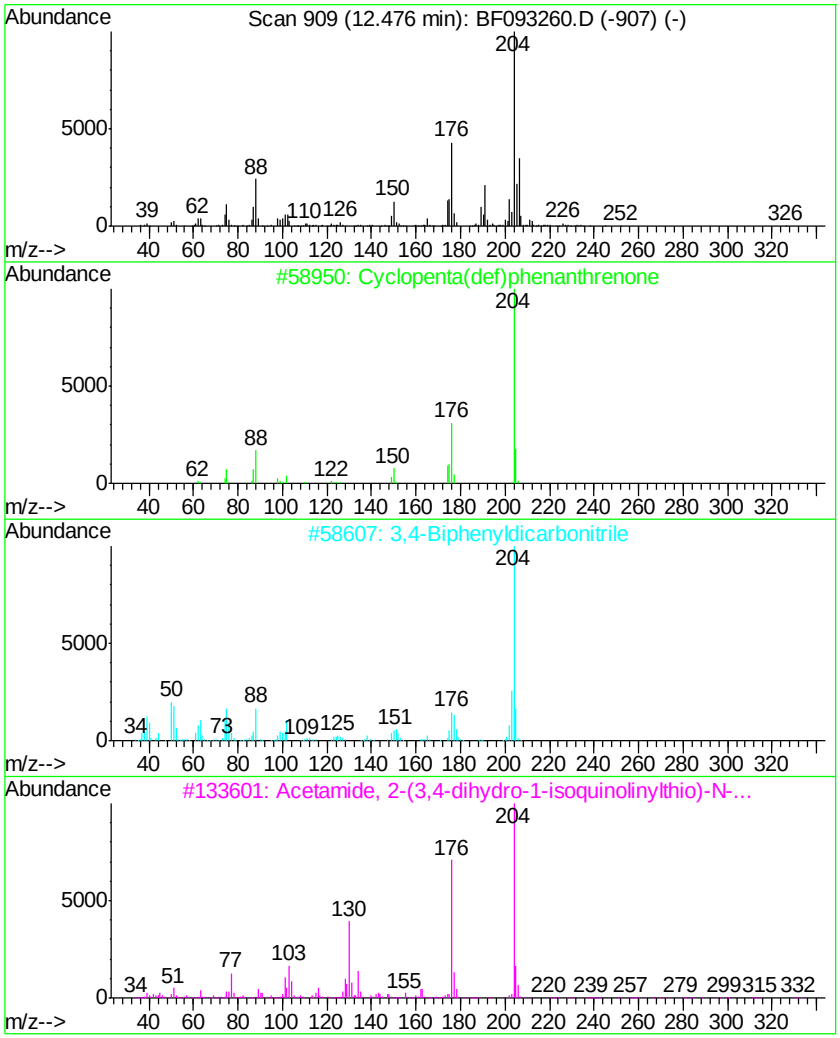
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

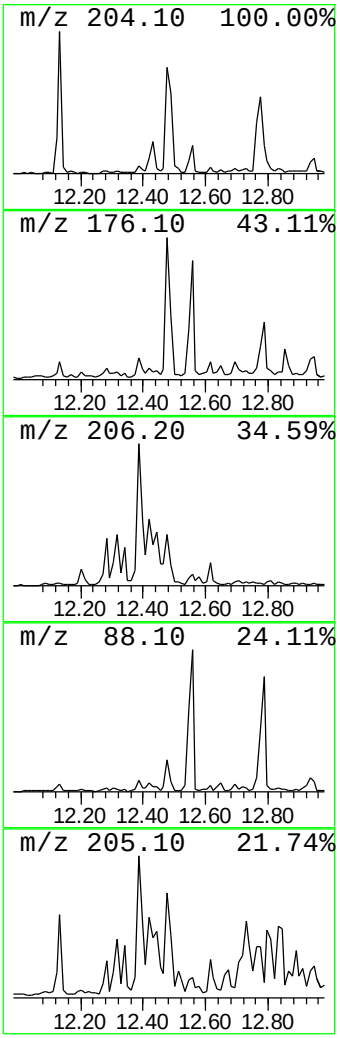
****

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	11.23 ng	495583	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53
3	Acetamide, 2-(3,4-dihydro-1-isoq...	332	C17H14F2N2OS	1000270-76-1	47
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

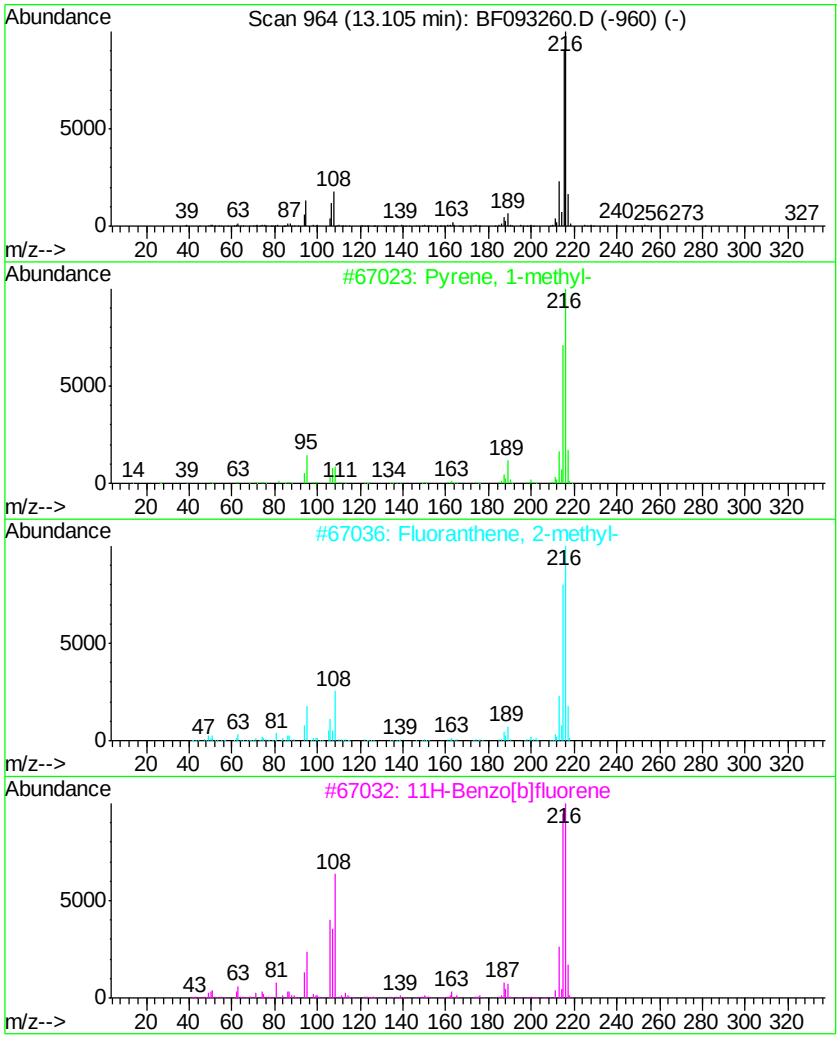
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

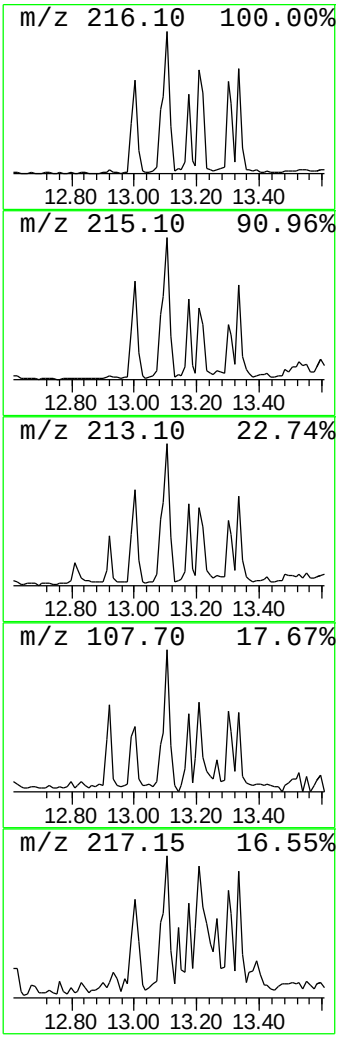
****

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	5.86 ng	1023690	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

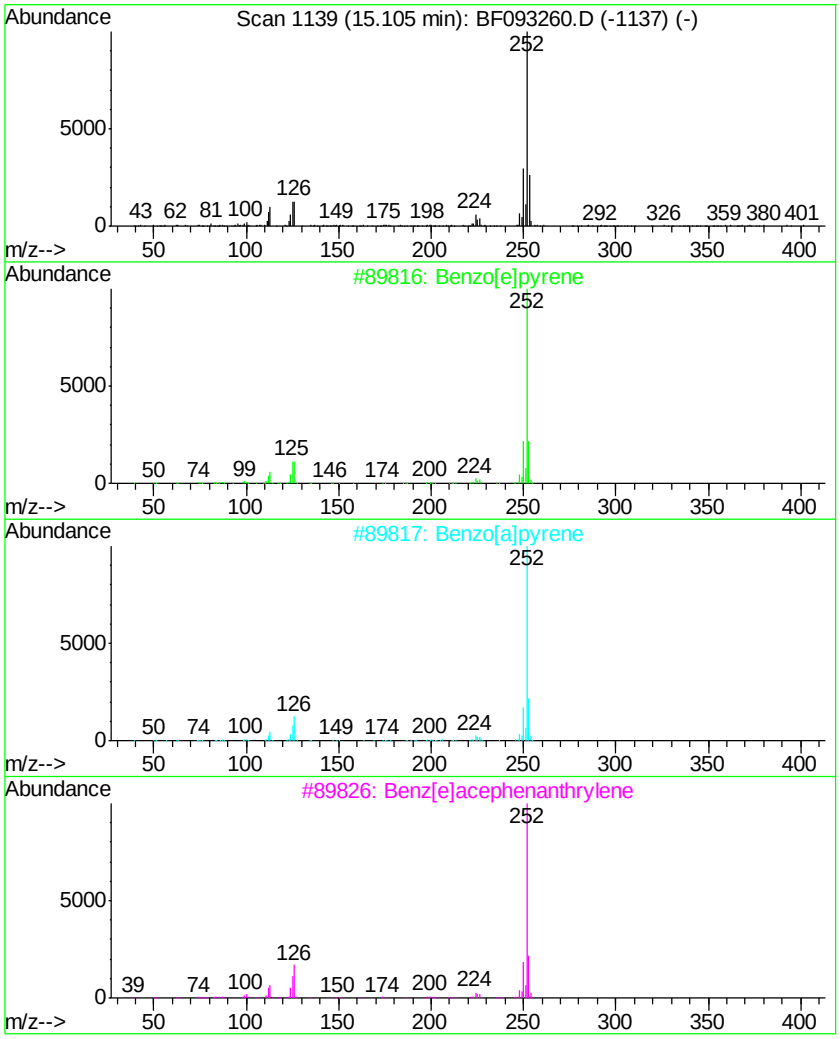
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

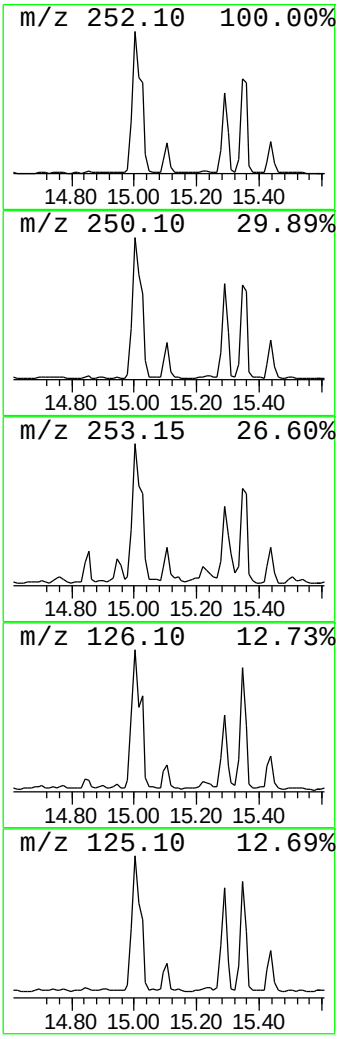
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.11	9.31 ng	267974	Perylene-d12	15.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

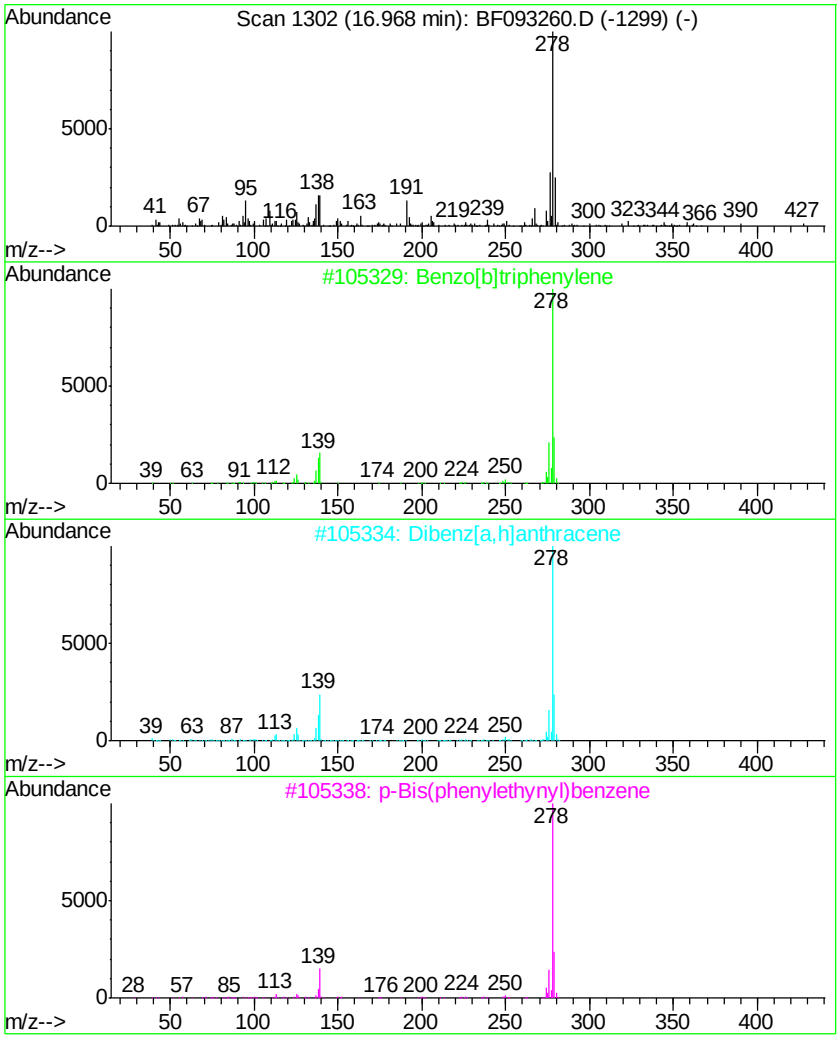
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

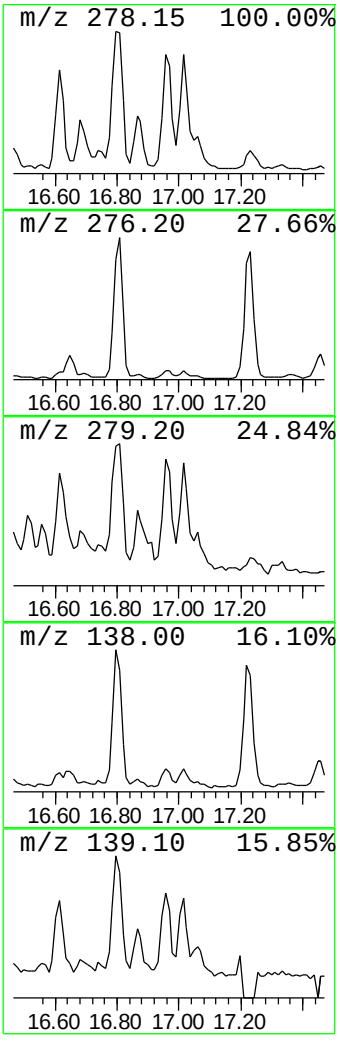
****

Peak Number 20 Benzo[b]triphenylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.97	7.37 ng	212291	Perylene-d12	15.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	70
3	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	70
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	64
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093260.D
Acq On : 28 Feb 2017 20:39
Operator : SJ/MA
Sample : I2017-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TK3-10-20170227

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.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...	4.97	34.1	ng	1354710	1	6.81	795075	20.0
unknown6.59	6.59	88.3	ng	3508870	1	6.81	795075	20.0
Undecane, 2,5-dim...	10.50	6.9	ng	322841	3	9.85	932785	20.0
Heptadecane, 7-me...	10.76	8.3	ng	366362	4	11.33	882751	20.0
Dibenzothiophene	11.23	7.0	ng	310754	4	11.33	882751	20.0
Anthracene, 2-met...	11.84	15.2	ng	671721	4	11.33	882751	20.0
Phenanthrene, 1-m...	11.87	18.0	ng	794784	4	11.33	882751	20.0
4H-Cyclopenta[def...	11.95	35.1	ng	1547370	4	11.33	882751	20.0
2-Phenylnaphthalene	12.13	7.6	ng	336568	4	11.33	882751	20.0
9,10-Anthracenedione	12.17	12.3	ng	544324	4	11.33	882751	20.0
Anthracene, 2-ethyl-	12.28	6.9	ng	305613	4	11.33	882751	20.0
di-p-Tolylacetylene	12.32	7.9	ng	347181	4	11.33	882751	20.0
Phenanthrene, 2,5...	12.39	15.7	ng	692799	4	11.33	882751	20.0
unknown12.42	12.42	9.3	ng	409975	4	11.33	882751	20.0
Cyclopenta(def)ph...	12.48	11.2	ng	495583	4	11.33	882751	20.0
Pyrene, 1-methyl-	13.11	5.9	ng	1023690	5	13.99	3492890	20.0
Benzo[e]pyrene	15.11	9.3	ng	267974	6	15.40	575937	20.0
Benzo[b]triphenylene	16.97	7.4	ng	212291	6	15.40	575937	20.0