LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

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-BF120916.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	4.990	252	254	262	rVV2	2623577	4970090	17.91%	0.697%
2	5.424	289	292	294	rVB	7558558	8068501	29.07%	1.132%
3	5.573	303	305	307	rBV	999719	1391935	5.02%	0.195%
4	5.619	307	309	310	rVB	972652	1029128	3.71%	0.144%
5	5.653	310	312	317	rVB2	687870	1385444	4.99%	0.194%
6	5.824	323	327	329	rBV2	1785365	2954364	10.64%	0.414%
7	5.881	329	332	333	rBV2	991599	1578463	5.69%	0.221%
8	5.961	337	339	342	rVB2	2589683	3023357	10.89%	0.424%
9	6.019	342	344	346	rBV2	1448977	2586107	9.32%	0.363%
10	6.064	346	348	351	rVB2	5664480	7151763	25.77%	1.003%
11	6.121	351	353	354	rBV	2861963	2677219	9.65%	0.375%
12	6.156	354	356	362	rVB4	1584138	5069981	18.27%	0.711%
13	6.259	362	365	367	rBV3	3001862	5059898	18.23%	0.710%
14	6.350	371	373	378	rBV4	4887575	9572017	34.49%	1.342%
15	6.464	378	383	384	rBV	8617614	14324054	51.61%	2.009%
16	6.590	389	394	399	rBV2	8440778	18405275	66.31%	2.581%
17	6.681	399	402	404	rBV	2902784	4547172	16.38%	0.638%
18	6.773	404	410	411	rBV3	2714200	7214290	25.99%	1.012%
19	6.819	413	414	418	rVB3	3993550	6352037	22.89%	0.891%
20	6.887	418	420	422	rBV	3351064	6139206	22.12%	0.861%
21	6.979	422	428	433	rVB5	10157013	25957796	93.53%	3.640%
22	7.070	433	436	437	rBV3	3432184	6688785	24.10%	0.938%
23	7.104	437	439	441	rVB	5110035	7592095	27.35%	1.065%
24	7.150	441	443	444	rBV2	1226355	1079047	3.89%	0.151%
25	7.184	444	446	447	rBV2	2388987	3910547	14.09%	0.548%
26	7.230	447	450	451	rBV2	5076871	6859396	24.71%	0.962%
27	7.379	456	463	465	rBV4	9347222	27754354	100.00%	3.892%
28	7.424	465	467	470	rVB4	3046035	4862395	17.52%	0.682%
29	7.482	470	472	475	rVB2	6386781	10337048	37.24%	1.450%
30	7.539	475	477	480	rBV3	2274598	5797335	20.89%	0.813%
31	7.619	480	484	485	rBV3	2942981	7497103	27.01%	1.051%
32	7.653	485	487	489	rVB3	5532879	7379928	26.59%	1.035%
33	7.687	489	490	491	rBV	1790547	1667702	6.01%	0.234%
34	7.767	492	497	499	rVB4	6867046	19908827	71.73%	2.792%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

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-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.870	504	506	511	rVB4	4678443	11576694	41.71%	1.624%
36	7.950	511	513	515	rBV2	4563869	7306283	26.32%	1.025%
37	7.996	515	517	518	rBV	3488726	4615009	16.63%	0.647%
38	8.122	522	528	531	rBV7	6044612	20900205	75.30%	2.931%
39	8.339	541	547	551	rBV8	4891512	22218956	80.06%	3.116%
40	8.430	551	555	556	rVV4	4716870	9598915	34.59%	1.346%
41	8.464	556	558	559	rBV	1517561	1846144	6.65%	0.259%
42	8.579	564	568	572	rVV2	8051201	17697757	63.77%	2.482%
43	8.647	572	574	575	rVB2	2683949	3515797	12.67%	0.493%
44	8.682	575	577	580	rBV4	2845509	6759181	24.35%	0.948%
45	8.830	588	590	592	rVB3	4846414	6485180	23.37%	0.910%
46	8.887	593	595	596	rBV2	2189120	2693218	9.70%	0.378%
47	9.047	607	609	611	rVB3	4342459	4970341	17.91%	0.697%
48	9.173	617	620	621	rBV2	7009681	10137869	36.53%	1.422%
49	9.207	621	623	624	rVB	2977316	3478158	12.53%	0.488%
50	9.287	628	630	633	rBV3	3042885	6888598	24.82%	0.966%
51	9.619	656	659	662	rBV2	7200419	13014919	46.89%	1.825%
52	9.756	669	671	673	rBV3	1833672	2867428	10.33%	0.402%
53	9.790	673	674	676	rVB2	2897479	3846078	13.86%	0.539%
54	9.859	679	680	683	rVV3	3158018	6221097	22.41%	0.872%
55	9.916	683	685	686	rVV2	2330259	3120269	11.24%	0.438%
56	9.985	690	691	693	rVB	3995554	3859228	13.90%	0.541%
57	10.076	697	699	701	rVV2	4376295	4986550	17.97%	0.699%
58	10.133	701	704	707	rVB3	4487487	9250747	33.33%	1.297%
59	10.190	707	709	712	rBV2	2973547	4478430	16.14%	0.628%
60	10.282	715	717	719	rVB2	2730209	3784507	13.64%	0.531%
61	10.328	719	721	723	rBV3	1427011	2089951	7.53%	0.293%
62	10.408	726	728	732	rBV4	1955185	3605567	12.99%	0.506%
63	10.522	735	738	741	rVB	6541103	7727059	27.84%	1.084%
64	10.568	741	742	744	rVB2	1503025	1434500	5.17%	0.201%
65	10.648	746	749	751	rVB3	2397156	3973832	14.32%	0.557%
66	10.785	759	761	765	rVB	7442905	9044676	32.59%	1.268%
67	10.945	774	775	777	rVB2	1299299	1213035	4.37%	0.170%
68	10.979	777	778	781	rVB3	877675	1283050	4.62%	0.180%
69	11.128	787	791	793	rBV2	2644036	3607040	13.00%	0.506%
70	11.242	800	801	803	rVB	2090741	2487729	8.96%	0.349%
71	11.299	803	806	808	rVV2	3163479	4306714	15.52%	0.604%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

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-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.356	808	811	814	rVV2	839485	2303159	8.30%	0.323%
73	11.482	819	822	827	rVV6	1504141	4290648	15.46%	0.602%
74	11.562	827	829	830	rVV2	2006799	2444230	8.81%	0.343%
75	11.608	830	833	835	rVV3	5838731	9644964	34.75%	1.353%
76	11.642	835	836	838	rVV	6614808	6329896	22.81%	0.888%
77	11.676	838	839	842	rVV2	2411649	4236723	15.27%	0.594%
78	11.745	842	845	846	rVV2	8671111	11517061	41.50%	1.615%
79	11.768	846	847	851	rVV3	2045170	5007551	18.04%	0.702%
80	11.836	851	853	855	rVV	6308924	8124578	29.27%	1.139%
81	11.893	855	858	860	rVV2	4403481	9804057	35.32%	1.375%
82	11.939	860	862	864	rVV2	9711752	16208513	58.40%	2.273%
83	11.973	864	865	868	rVV	6231656	8314958	29.96%	1.166%
84	12.042	868	871	874	rVV2	8274015	17796164	64.12%	2.496%
85	12.099	874	876	878	rVV3	5697810	13509295	48.67%	1.895%
86	12.145	878	880	882	rVV2	11060449	18075662	65.13%	2.535%
87	12.202	882	885	890	rVV3	5380075	16621215	59.89%	2.331%
88	12.293	890	893	897	rVV3	7186203	12223072	44.04%	1.714%
89	12.373	897	900	903	rVV	9422277	17066984	61.49%	2.394%
90	12.419	903	904	905	rVV	1336929	1263044	4.55%	0.177%
91	12.465	905	908	910	rVV	3814083	5858713	21.11%	0.822%
92	12.602	917	920	921	rVV2	3562538	5933327	21.38%	0.832%
93	12.648	923	924	926	rVV	2145553	1922012	6.93%	0.270%
94	12.716	928	930	933	rVV3	796432	1696408	6.11%	0.238%
95	12.899	943	946	947	rBV	7381863	8742781	31.50%	1.226%
96	12.922	947	948	954	rVV	5299899	5943435	21.41%	0.834%
97	13.059	956	960	967	rVB	3280049	5092675	18.35%	0.714%
98	13.402	987	990	993	rVB2	862314	1576026	5.68%	0.221%
99	13.962	1036	1039	1045	rVB2	1802160	2153588	7.76%	0.302%
100	15.379	1160	1163	1168	rVB	1137315	1658528	5.98%	0.233%

Sum of corrected areas: 713042637

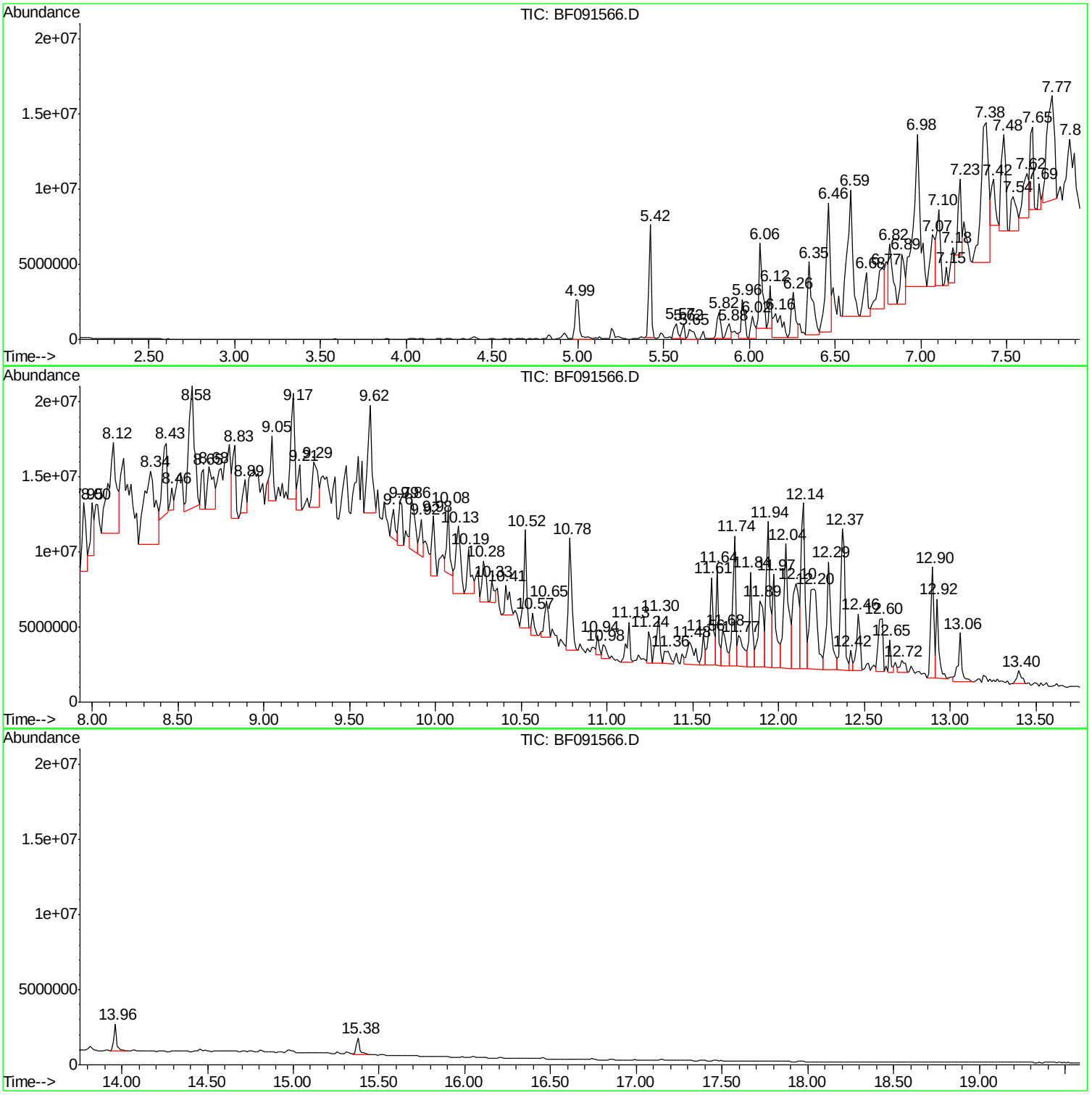
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

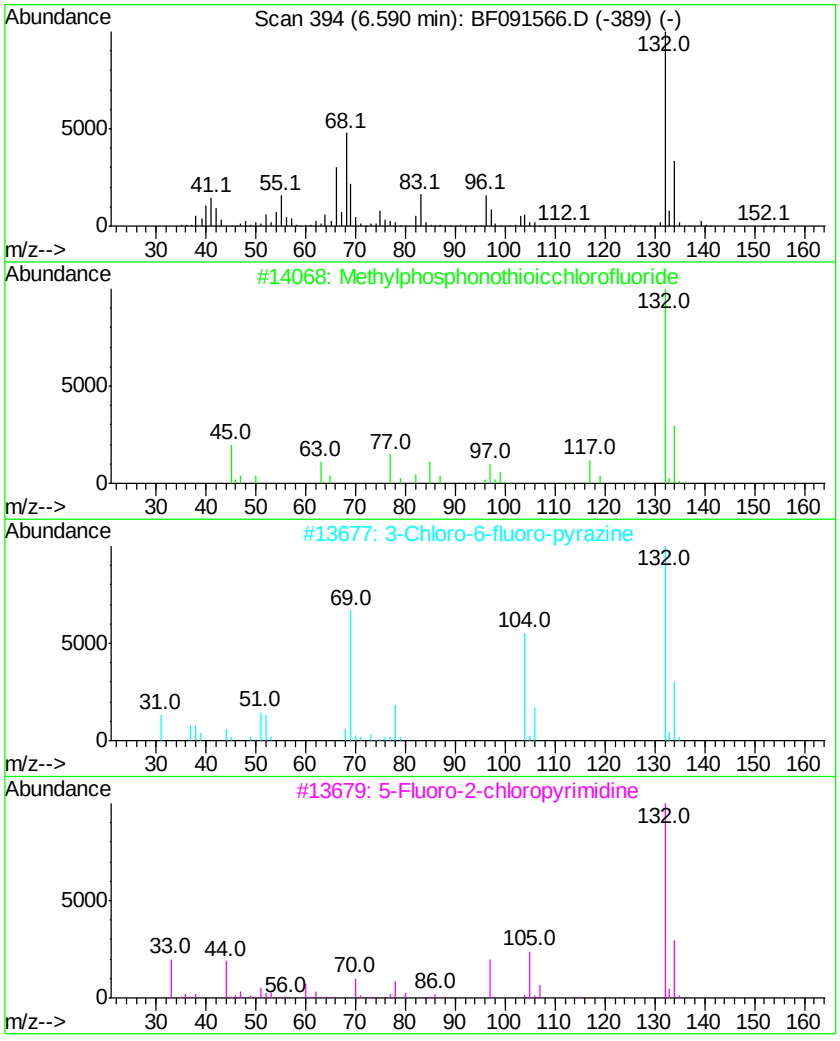
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

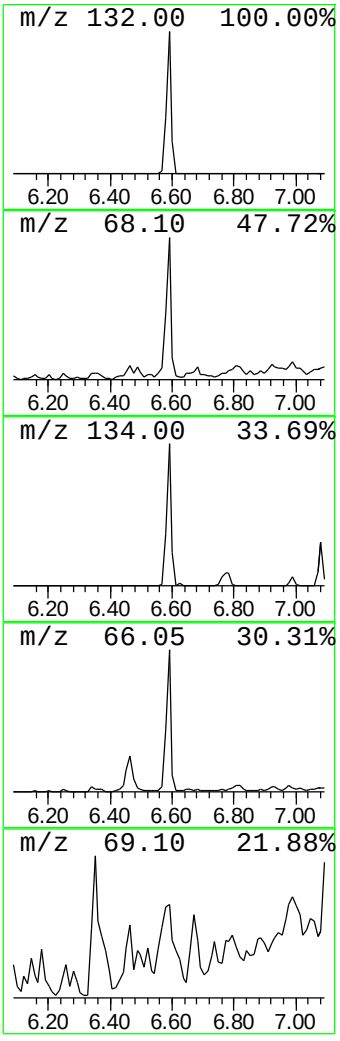
****

Peak Number 1 unknown6.59 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	57.95 ng	18405300	1,4-Dichlorobenzene-d4	6.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylphosphonothioicchlorofluoride	132	CH3ClFPS	027127-27-1	27
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	10
5	1,2,3-Trifluorobenzene	132	C6H3F3	001489-53-8	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

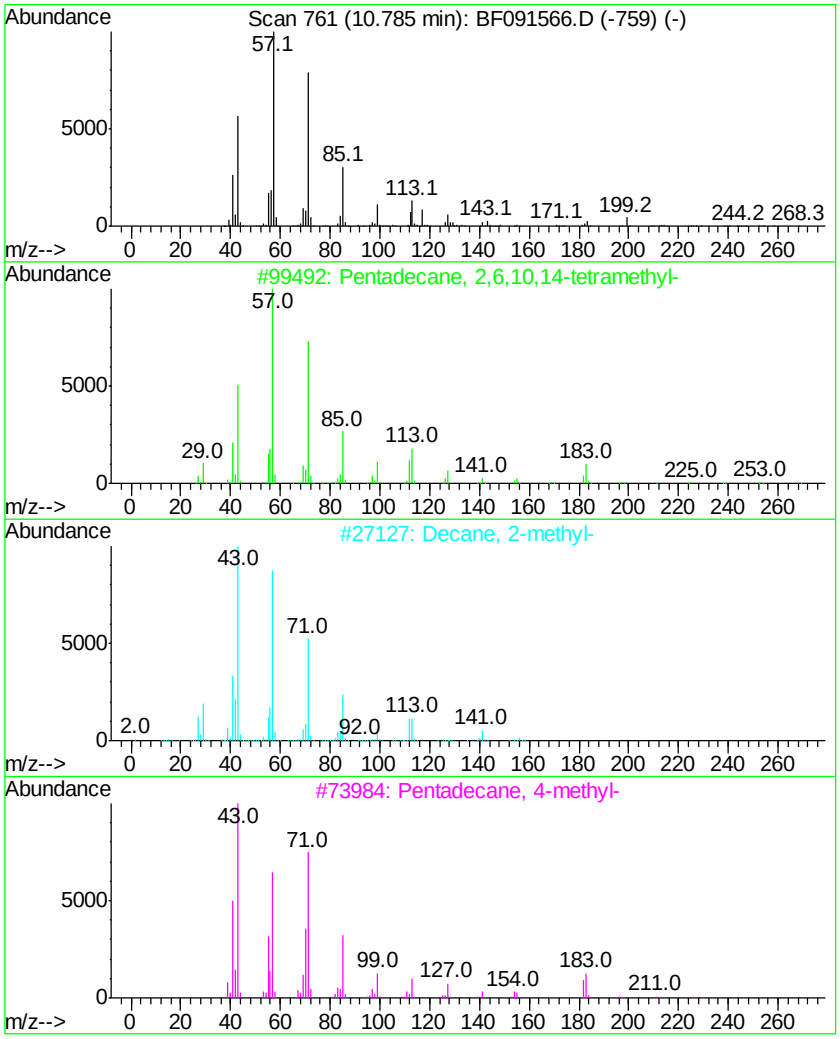
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

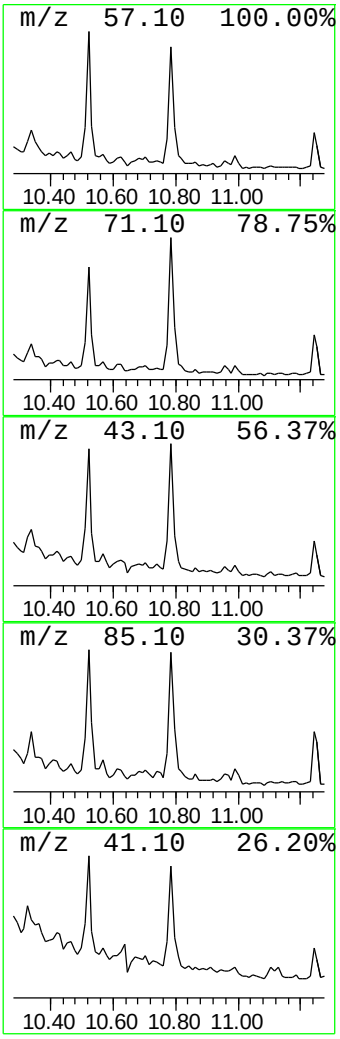
****

Peak Number 3 Pentadecane, 2,6,10,14-tetr... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	78.54 ng	9044680	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	93
2	Decane, 2-methyl-	156	C11H24	006975-98-0	83
3	Pentadecane, 4-methyl-	226	C16H34	002801-87-8	81
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	80
5	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	78





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

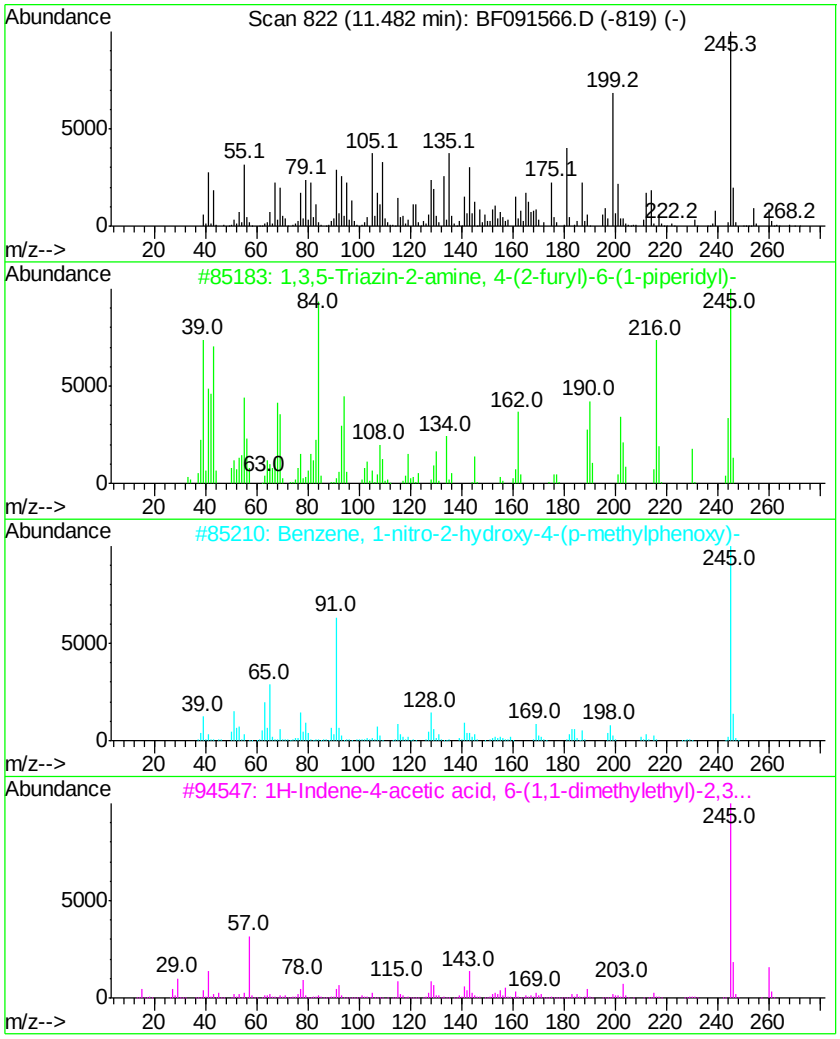
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

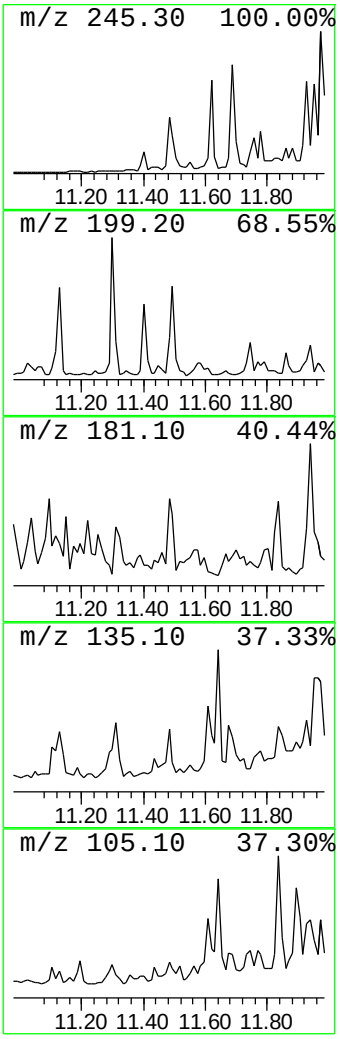
****

Peak Number 4 unknown11.48 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.48	37.26 ng	4290650	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,5-Triazin-2-amine, 4-(2-furv...	245	C12H15N5O	148403-53-6	38
2	Benzene, 1-nitro-2-hydroxy-4-(p-...	245	C13H11NO4	128237-07-0	30
3	1H-Indene-4-acetic acid, 6-(1,1-...	260	C17H24O2	055591-05-4	30
4	10H-Indeno[1,2-g]quinoline, 2,4-...	245	C18H15N	050519-37-4	30
5	7H-Benz[c]acridin-12-one	245	C17H11NO	050405-26-0	30





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

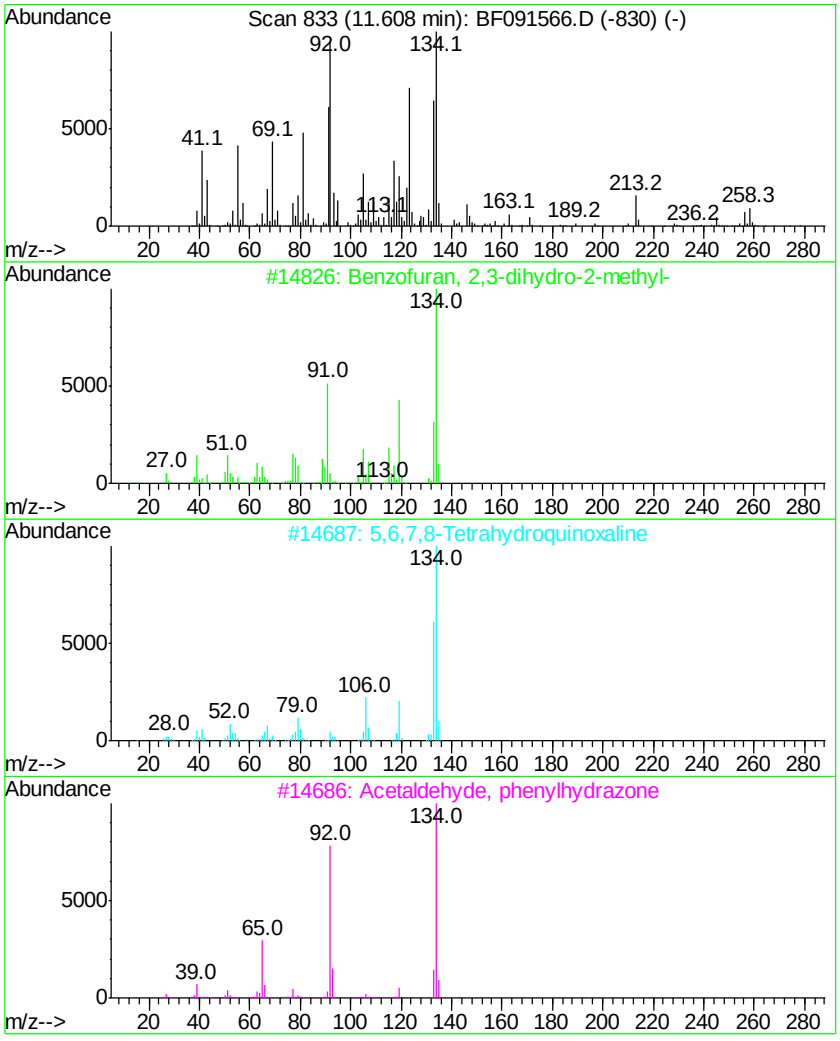
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

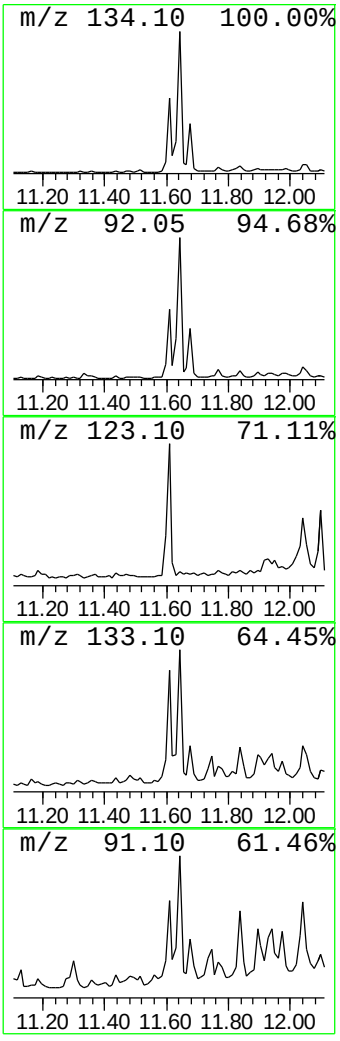
****

Peak Number 5 unknown11.61 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.61	83.75 ng	9644960	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 2,3-dihydro-2-methyl-	134	C9H10O	001746-11-8	42
2	5,6,7,8-Tetrahydroquinoxaline	134	C8H10N2	034413-35-9	38
3	Acetaldehyde, phenylhydrazone	134	C8H10N2	000935-07-9	38
4	5-Methylene-4,5,6,6a-tetrahydro-...	134	C9H10O	1000193-02-7	38
5	Pyridine, 3-(4-methyl-5-trans-ph...	240	C15H16N2O	1000142-75-2	27





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

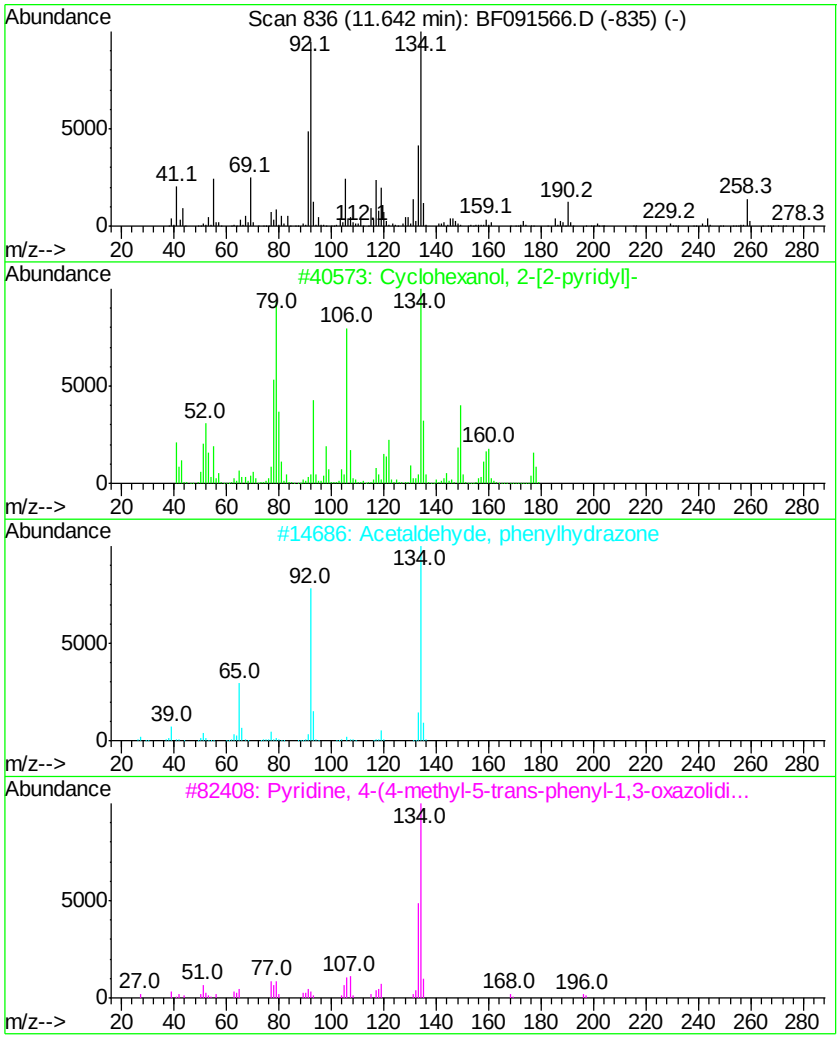
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

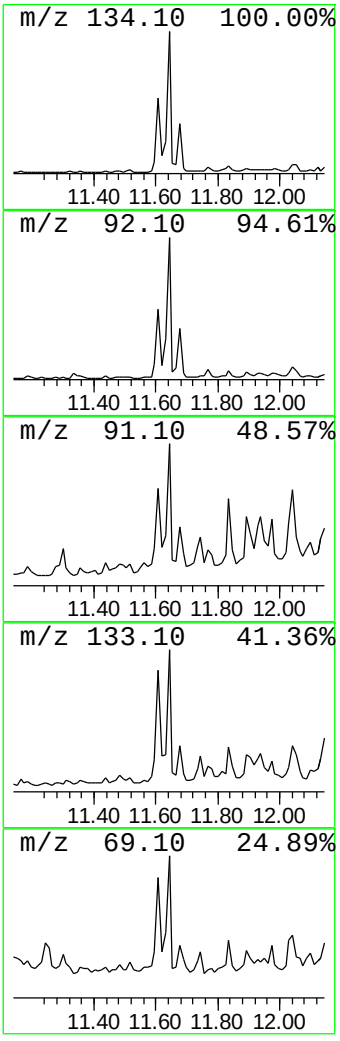
****

Peak Number 6 Cyclohexanol, 2-[2-pyridyl]- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.64	54.97 ng	6329900	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanol, 2-[2-pyridyl]-	177	C11H15NO	099858-60-3	60
2	Acetaldehyde, phenylhydrazone	134	C8H10N2	000935-07-9	47
3	Pyridine, 4-(4-methyl-5-trans-ph...	240	C15H16N2O	1000142-75-4	47
4	Bicyclopentyl-1,1'-diene	134	C10H14	000934-02-1	38
5	5,6,7,8-Tetrahydroquinoxaline	134	C8H10N2	034413-35-9	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

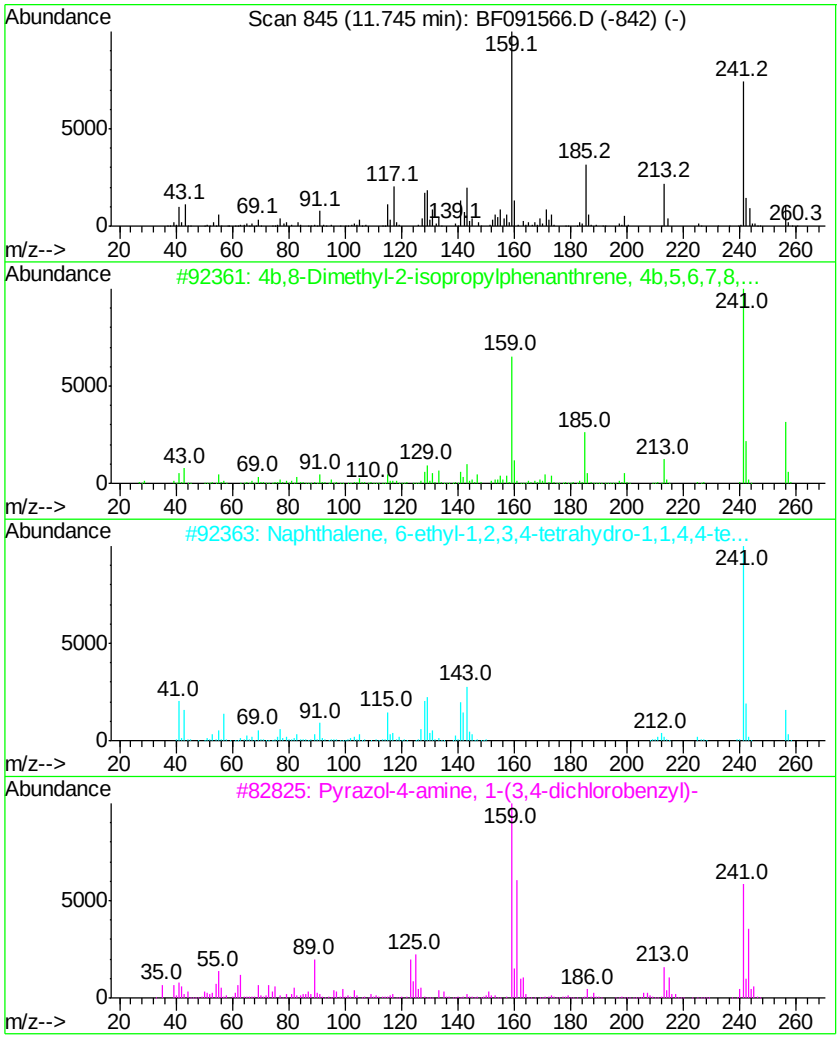
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

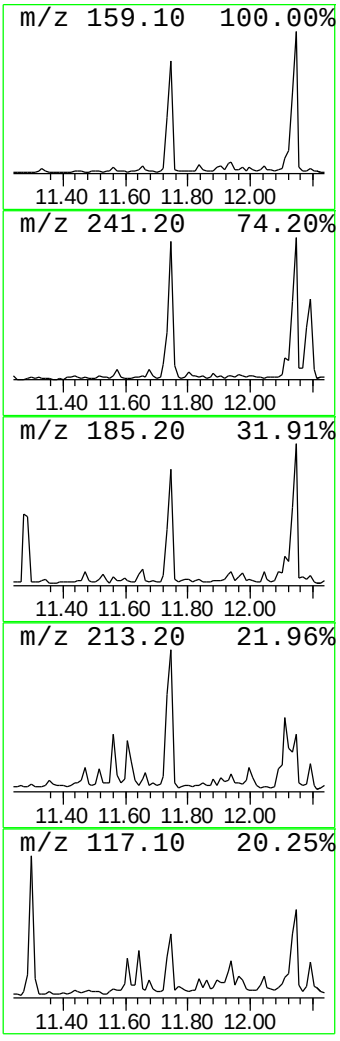
****

Peak Number 7 4b,8-Dimethyl-2-isopropylph... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	100.01 ng	11517100	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	90
2	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	89
3	Pyrazol-4-amine, 1-(3,4-dichloro...	241	C10H9Cl2N3	1000273-77-4	50
4	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1000212-95-2	30
5	Phosphoric acid, bis(trimethylsi...	256	C7H21O4PSi2	018291-81-1	27





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

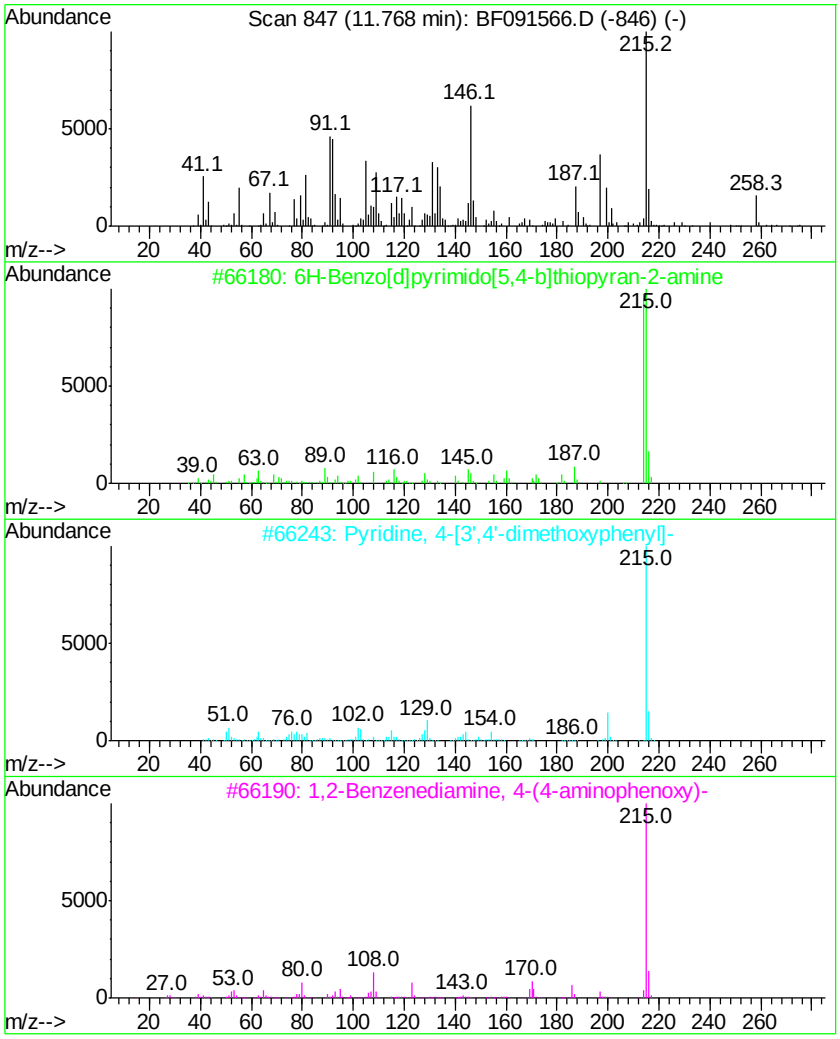
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

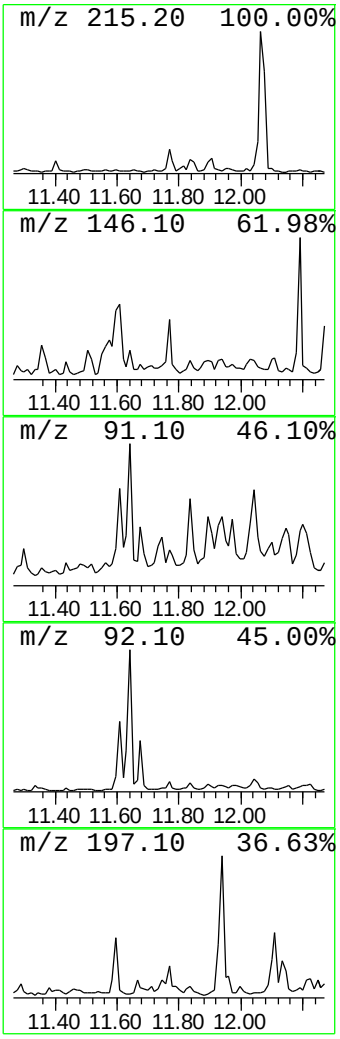
****

Peak Number 8 unknown11.77 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	43.48 ng	5007550	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benzo[d]pyrimido[5,4-b]thiopy...	215	C11H9N3S	1000267-44-6	22
2	Pyridine, 4-[3',4'-dimethoxyphen...	215	C13H13NO2	039795-63-6	22
3	1,2-Benzenediamine, 4-(4-aminoph...	215	C12H13N3O	006264-66-0	14
4	1-Buten-3-one, 1-amino-4,4,4-tri...	215	C10H8F3NO	120460-59-5	14
5	2(3H)-Benzofuranone, 3-[3-(dimet...	215	C13H13NO2	056771-83-6	12





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

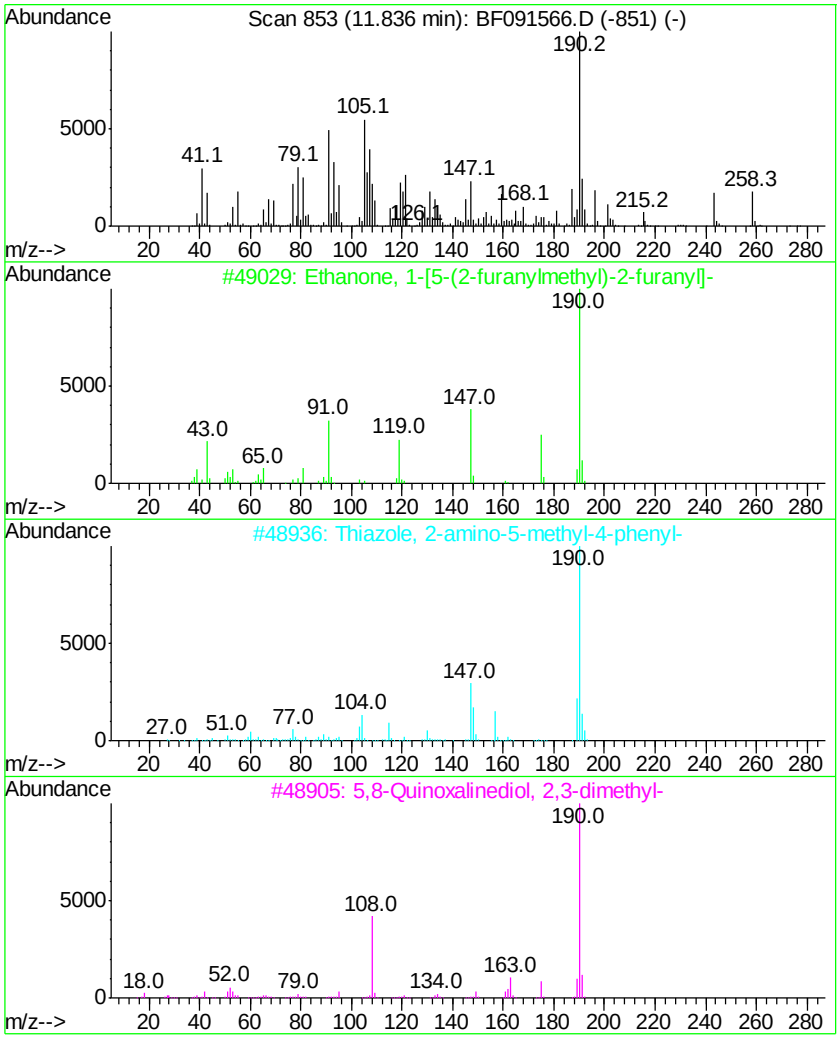
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

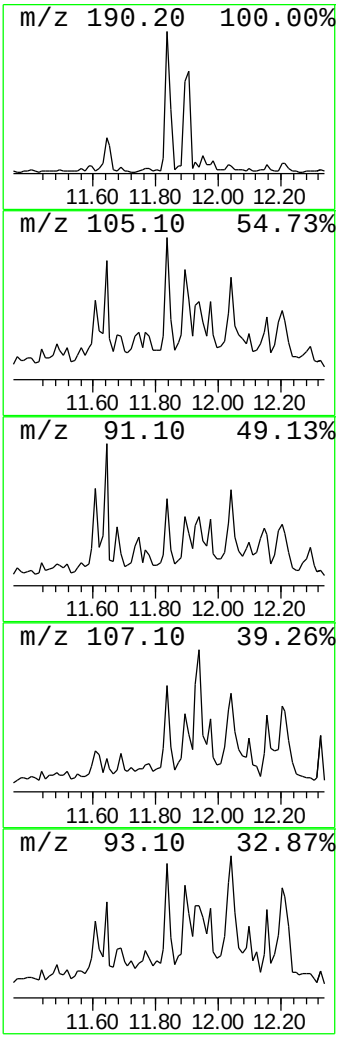
****

Peak Number 9 unknown11.84 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	70.55 ng	8124580	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-[5-(2-furanylmethyl)...	190	C11H10O3	052805-84-2	43
2	Thiazole, 2-amino-5-methyl-4-phe...	190	C10H10N2S	030709-67-2	27
3	5,8-Quinoxalinediol, 2,3-dimethyl-	190	C10H10N2O2	007698-00-2	27
4	2-Cyano-6-methoxybenzothiazole	190	C9H6N2OS	000943-03-3	27
5	2,6-Piperazinedione, 4-phenyl-	190	C10H10N2O2	042239-75-8	25





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

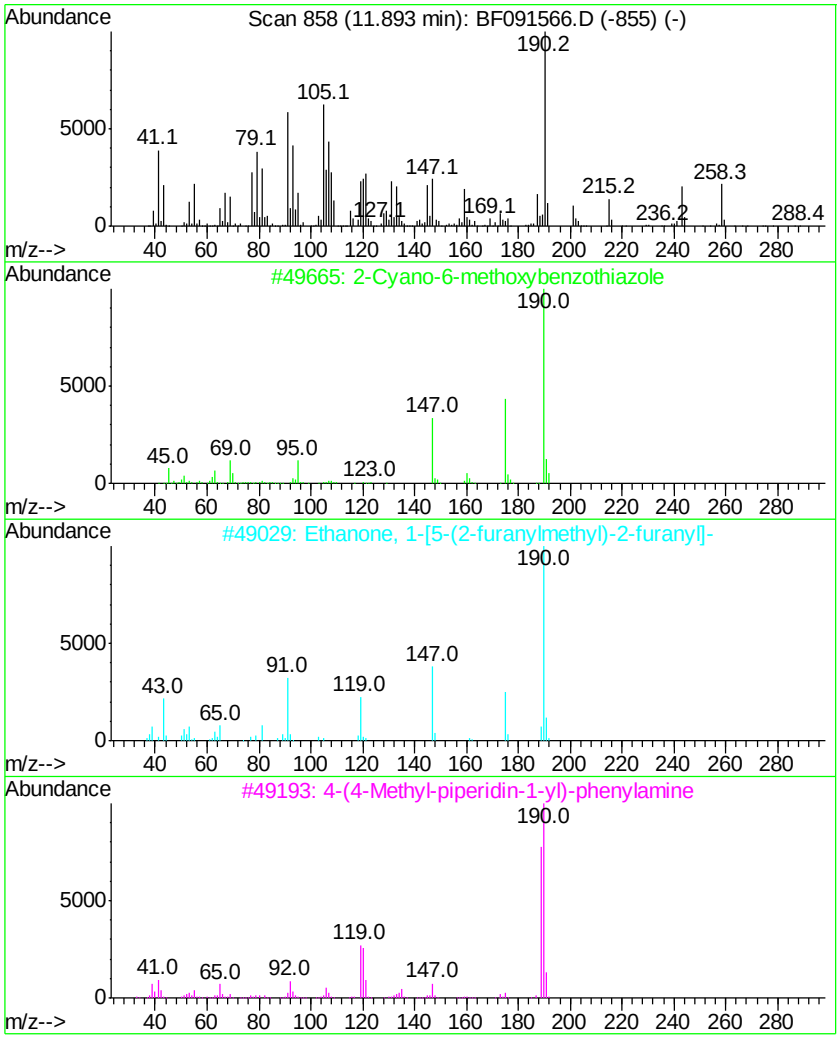
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

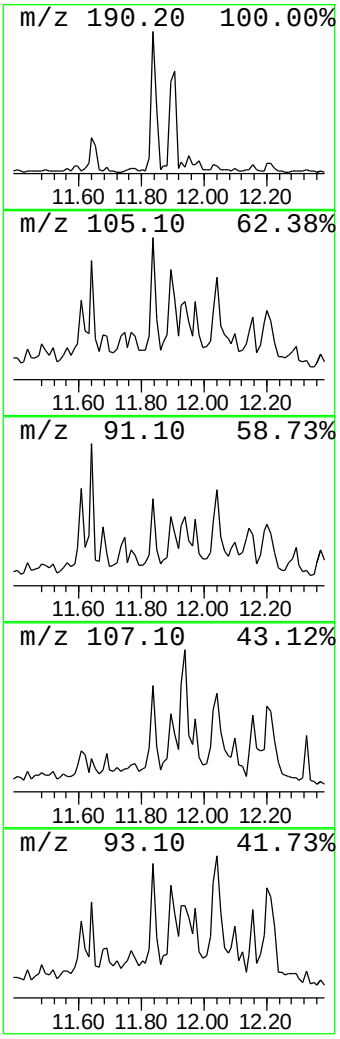
****

Peak Number 10 unknown11.89 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	85.14 ng	9804060	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyano-6-methoxybenzothiazole	190	C9H6N2OS	000943-03-3	38
2	Ethanone, 1-[5-(2-furanylmethyl)...	190	C11H10O3	052805-84-2	38
3	4-(4-Methyl-piperidin-1-yl)-phen...	190	C12H18N2	342013-25-6	35
4	6,7-Dimethoxyquinoxaline	190	C10H10N2O2	006295-29-0	27
5	2,6-Piperazinedione, 4-phenyl-	190	C10H10N2O2	042239-75-8	22





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

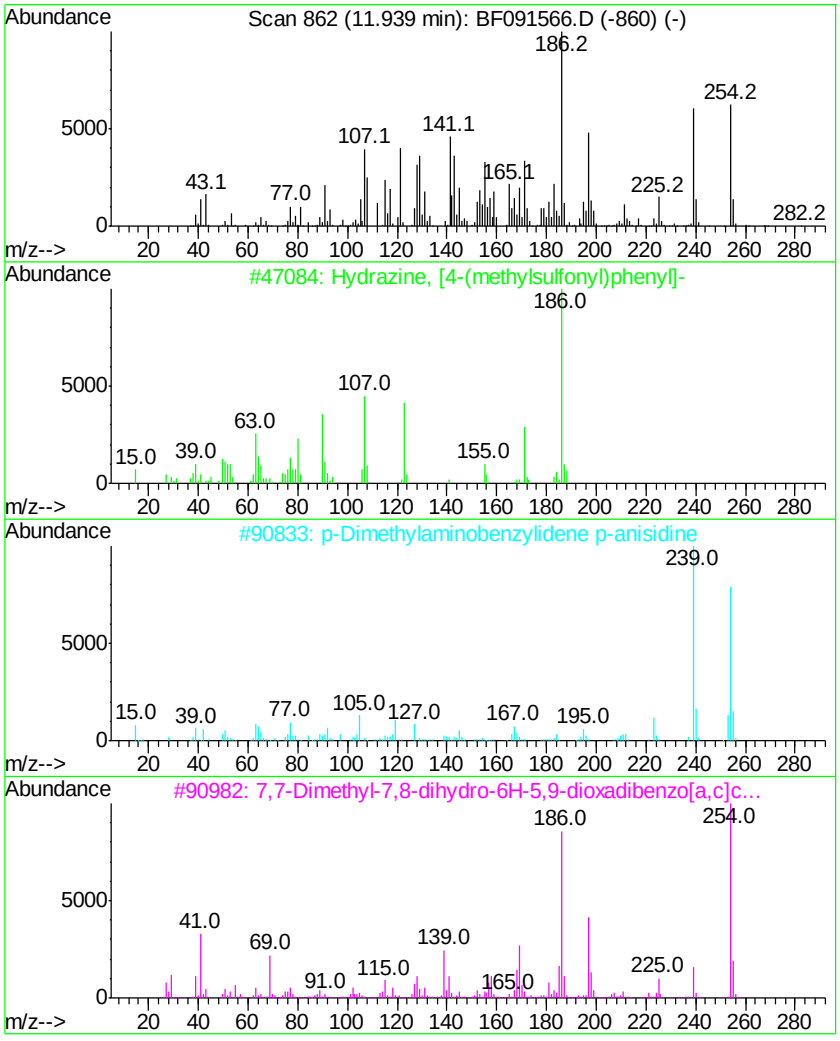
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

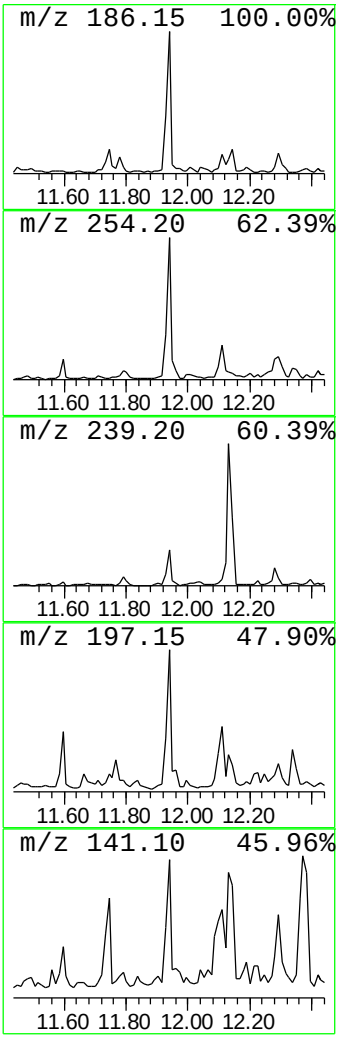
****

Peak Number 11 unknown11.94 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	140.75 ng	16208500	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrazine, [4-(methylsulfonyl)ph...	186	C7H10N2O2S	000877-66-7	30
2	p-Dimethylaminobenzylidene p-ani...	254	C16H18N2O	001749-04-8	25
3	7,7-Dimethyl-7,8-dihydro-6H-5,9-...	254	C17H18O2	161895-54-1	22
4	1-Naphthol, 2,5,8-trimethyl-	186	C13H14O	033583-02-7	22
5	Anthracene, 1,2,3,4,5,6,7,8-octa...	186	C14H18	001079-71-6	15





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

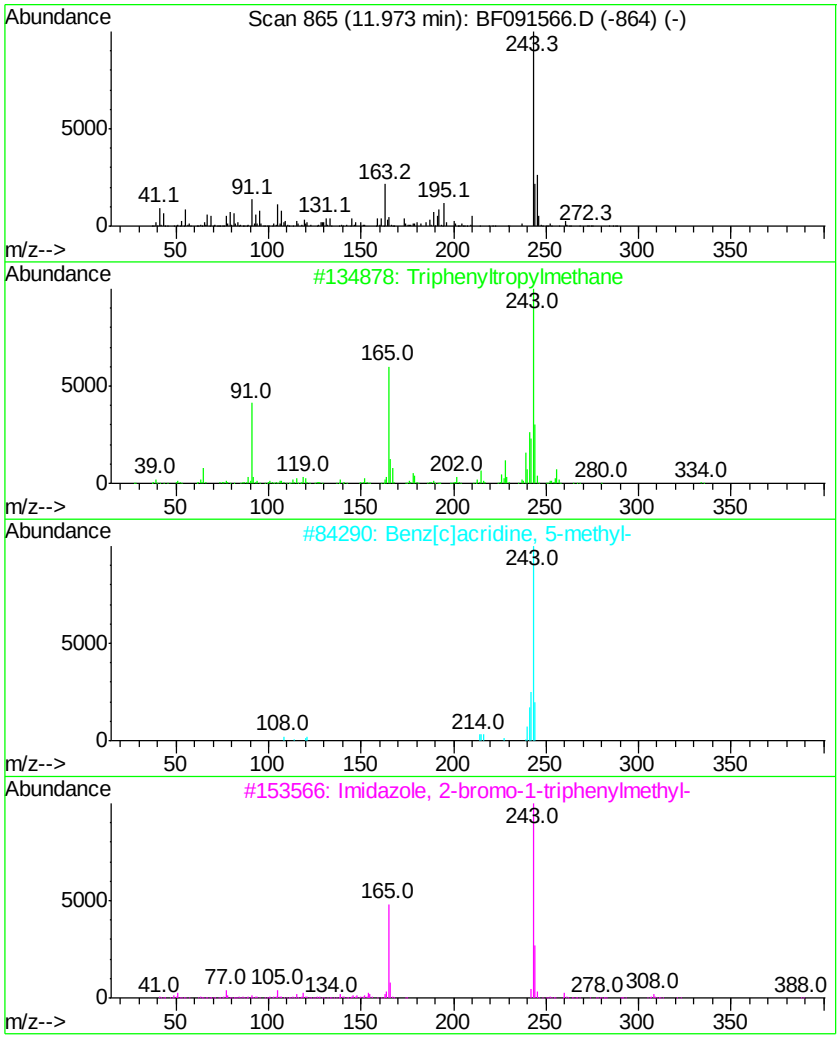
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

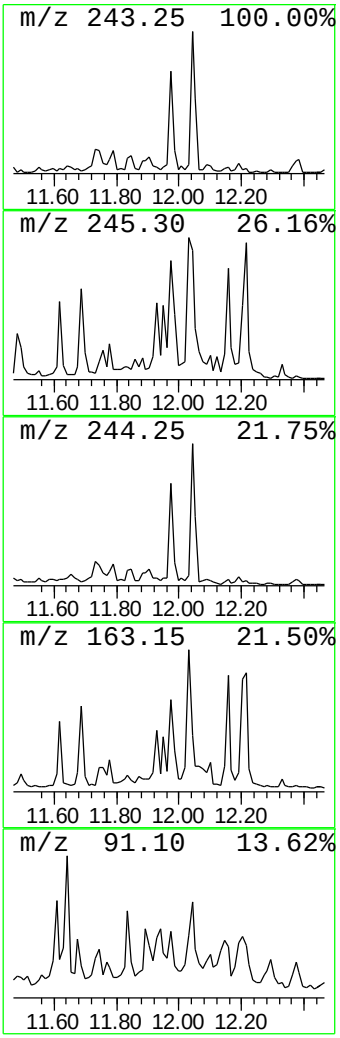
****

Peak Number 12 unknown11.97 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	72.20 ng	8314960	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenyltropylmethane	334	C26H22	020952-64-1	47
2	Benz[c]acridine, 5-methyl-	243	C18H13N	003519-87-7	43
3	Imidazole, 2-bromo-1-triphenylme...	388	C22H17BrN2	067478-47-1	38
4	Imidazole, 4-[.alpha.-hydroxy-.a...	484	C30H23F3N2O	161530-05-8	38
5	4-Ethyl-1,1,1,4-tetraphenyl-octa...	460	C34H36O	1000186-91-2	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

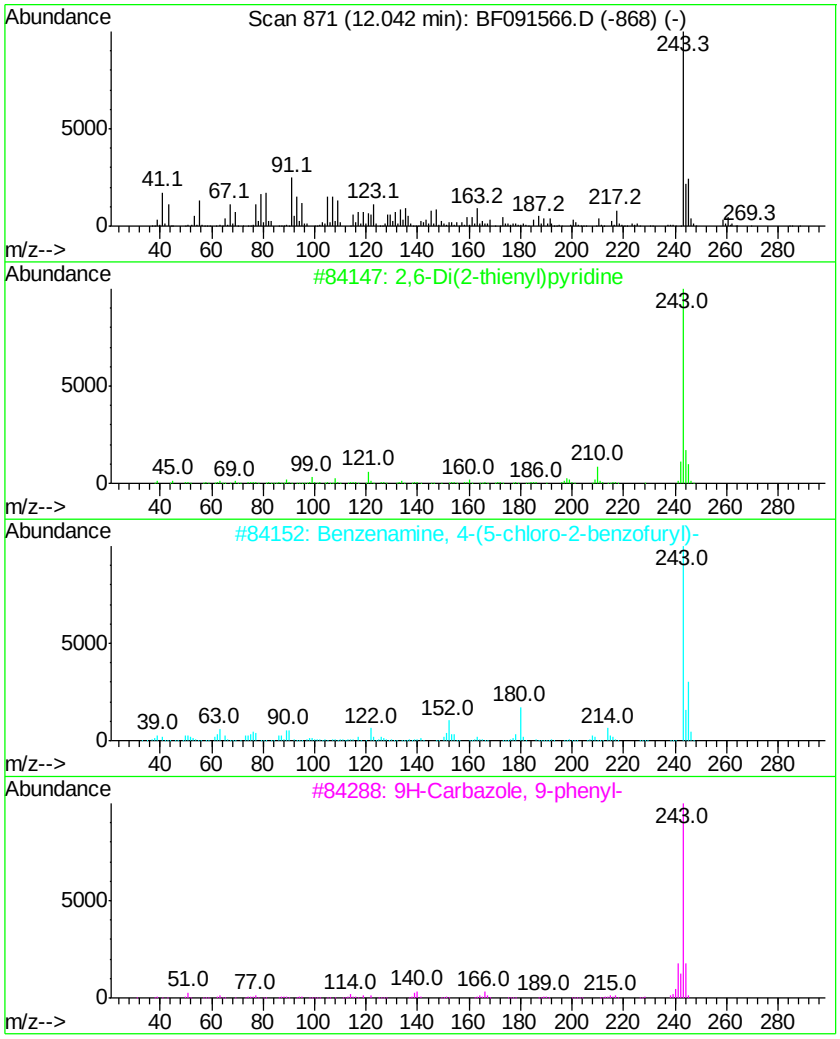
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

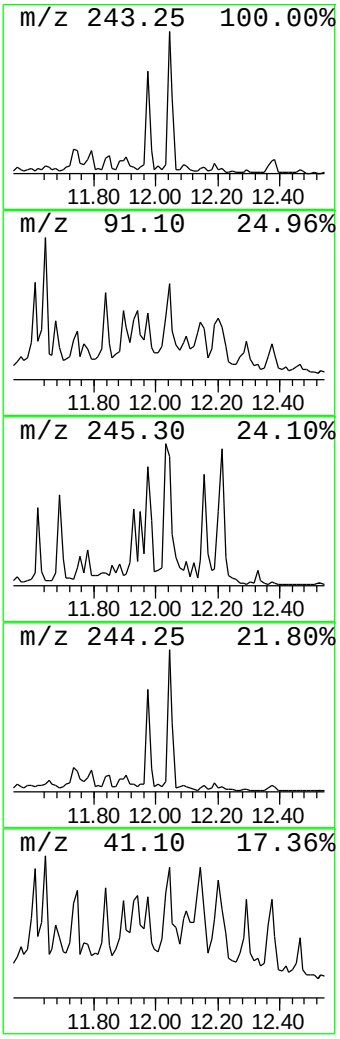
****

Peak Number 13 2,6-Di(2-thienyl)pyridine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	154.54 ng	17796200	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-Di(2-thienyl)pyridine	243	C13H9NS2	035299-71-9	53
2	Benzenamine, 4-(5-chloro-2-benzo...	243	C14H10ClNO	032432-30-7	53
3	9H-Carbazole, 9-phenyl-	243	C18H13N	001150-62-5	47
4	3-Phenyl-4-azafluorene	243	C18H13N	033777-97-8	47
5	Imidazole, 4-[.alpha.-hydroxy-.a...	484	C30H23F3N2O	161530-05-8	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

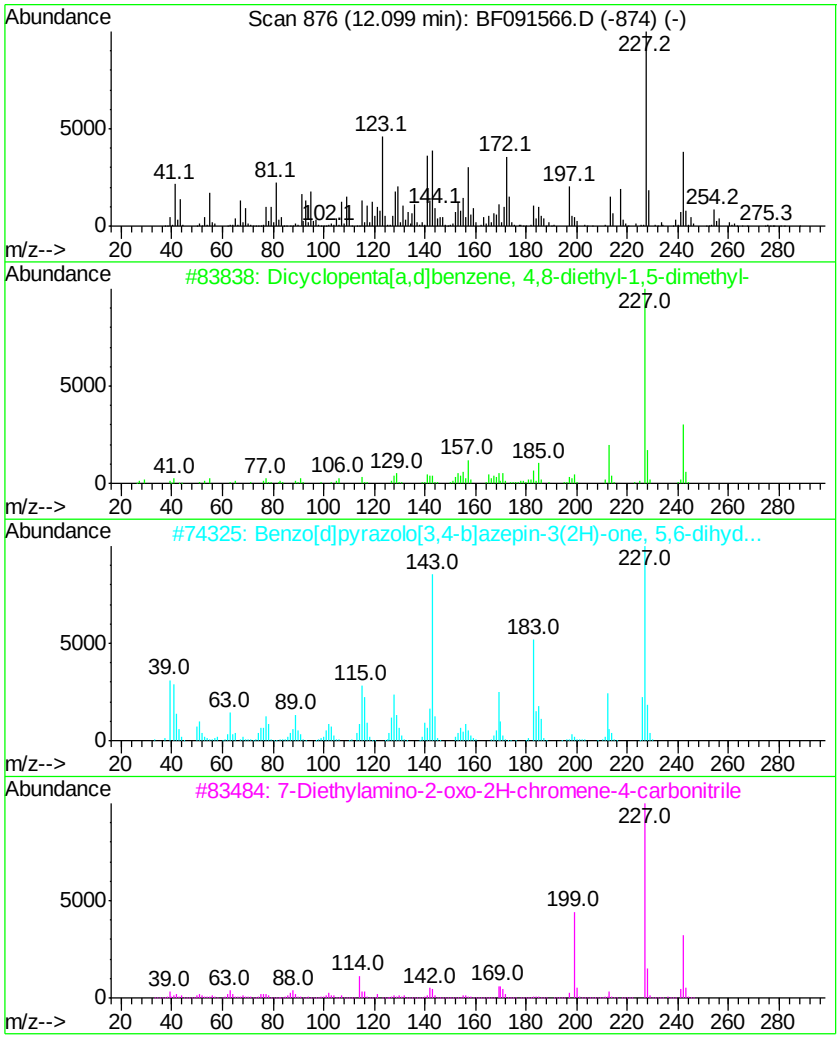
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

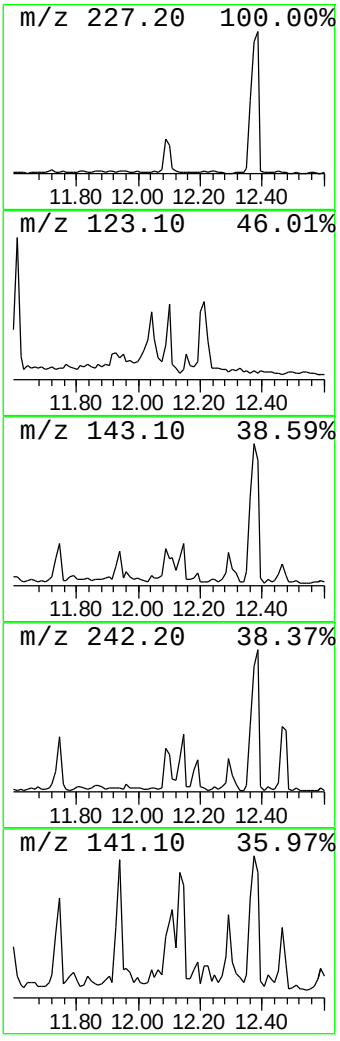
****

Peak Number 14 Dicyclopenta[a,d]benzene, 4... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	117.31 ng	13509300	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dicyclopenta[a,d]benzene, 4,8-di...	242	C18H26	1000156-41-6	80
2	Benzo[d]pyrazolo[3,4-b]azepin-3(...	227	C13H13N3O	263550-89-6	30
3	7-Diethylamino-2-oxo-2H-chromene...	242	C14H14N2O2	332411-59-3	30
4	1,4-Naphthalenedione, 2-hydroxy-...	242	C15H14O3	004042-39-1	30
5	Sulfur diimide, bis(4-methylphen...	242	C14H14N2S	003839-88-1	30





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

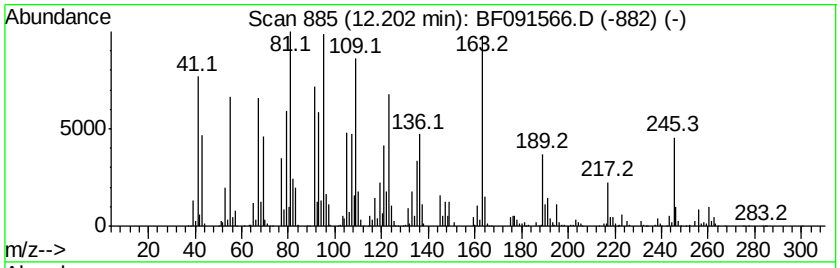
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

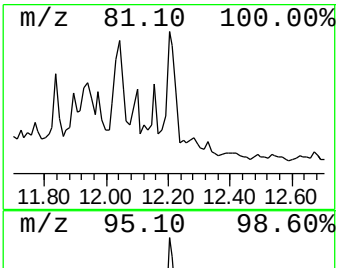
****

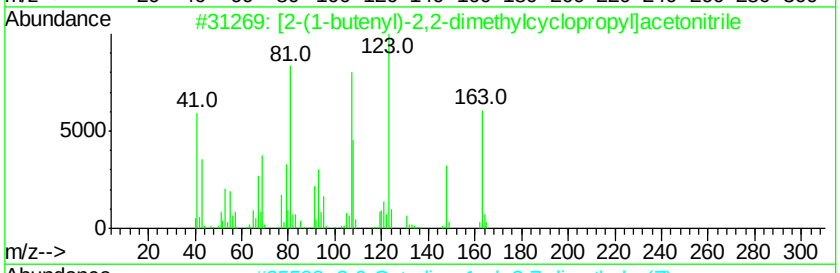
Peak Number 16 unknown12.20 Concentration Rank 4

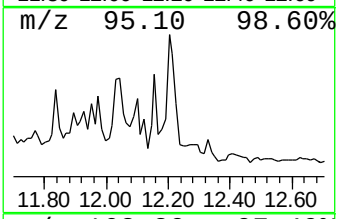
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	144.33 ng	16621200	Phenanthrene-d10	11.34

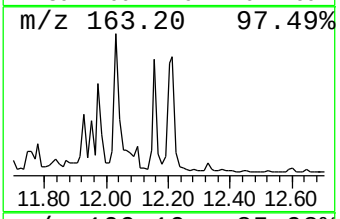
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[2-(1-butenyl)-2,2-dimethylcyclo...	163	C11H17N	1000111-15-4	30
2	3,6-Octadien-1-ol, 3,7-dimethyl-...	154	C10H18O	005944-20-7	27
3	Bicyclo[2.2.1]heptan-2-ol, 1,7,7...	196	C12H20O2	005655-61-8	25
4	2-Dodecyne	166	C12H22	000629-49-2	22
5	3-Methyl-cis-3a,4,7,7a-tetrahydr...	136	C10H16	1000144-04-4	18

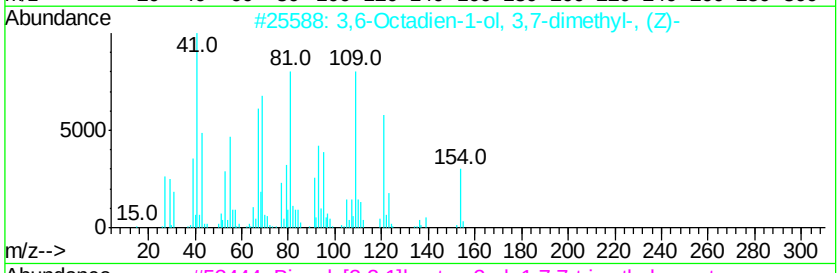


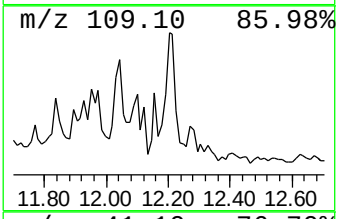


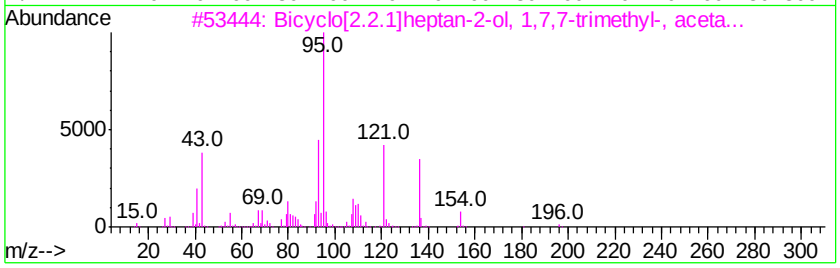


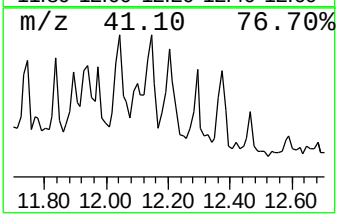












Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

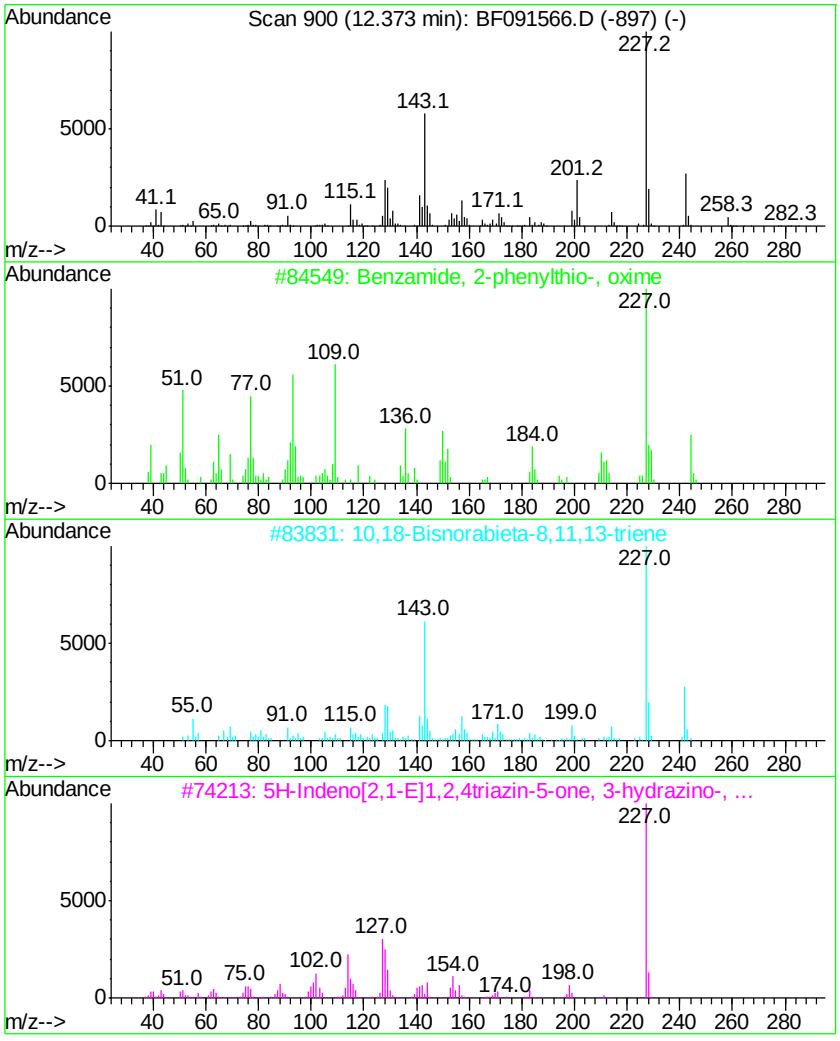
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

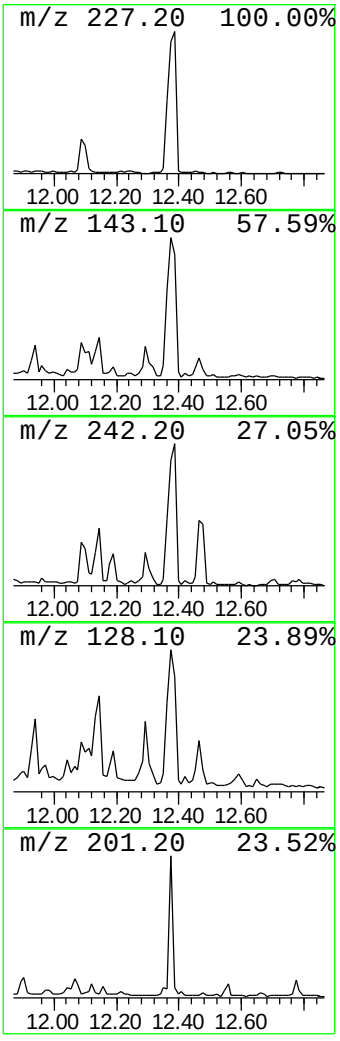
****

Peak Number 18 Benzamide, 2-phenylthio-, o... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	148.21 ng	17067000	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzamide, 2-phenylthio-, oxime	244	C13H12N2OS	117596-54-0	86
2	10,18-Bisnorabieta-8,11,13-triene	242	C18H26	032624-67-2	78
3	5H-Indeno[2,1-E]1,2,4triazin-5-o...	227	C10H9N7	1000271-75-1	53
4	Dicyclopenta[a,d]benzene, 4,8-di...	242	C18H26	1000156-41-6	50
5	1,4-Naphthalenedione, 2-hydroxy-...	242	C15H14O3	000084-79-7	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

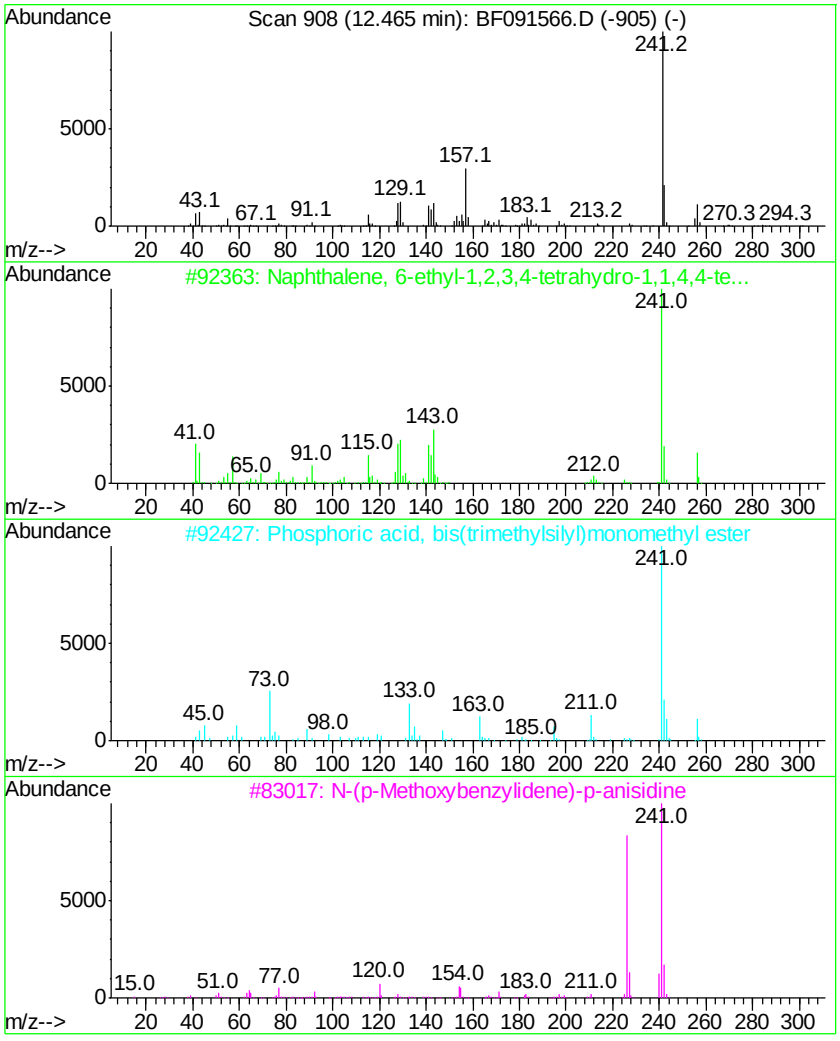
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

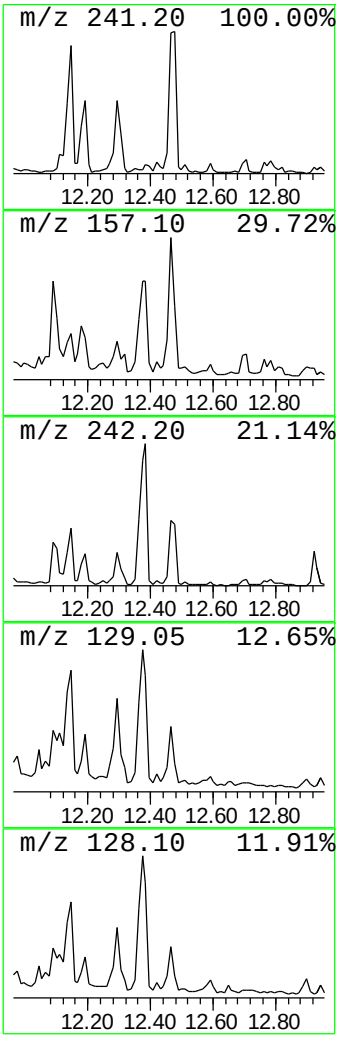
****

Peak Number 19 Naphthalene, 6-ethyl-1,2,3,... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	50.88 ng	5858710	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	55
2	Phosphoric acid, bis(trimethylsi...	256	C7H21O4PSi2	018291-81-1	47
3	N-(p-Methoxybenzylidene)-p-anisi...	241	C15H15NO2	001749-08-2	46
4	1H-Pyrazolo[3,4-b]pyridin-3(2H)-...	241	C13H11N3O2	071290-80-7	43
5	1-Chloro-2-tripropyl-silyloxyben...	284	C15H25ClOSi	1000292-68-4	33





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

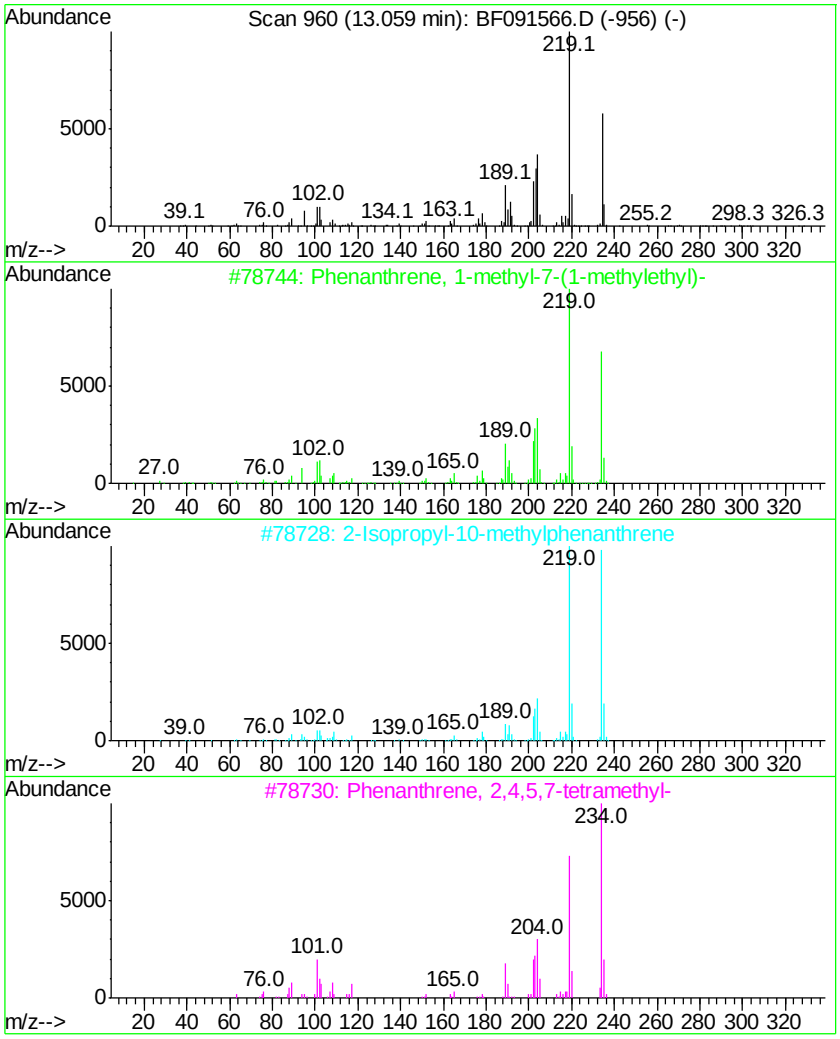
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

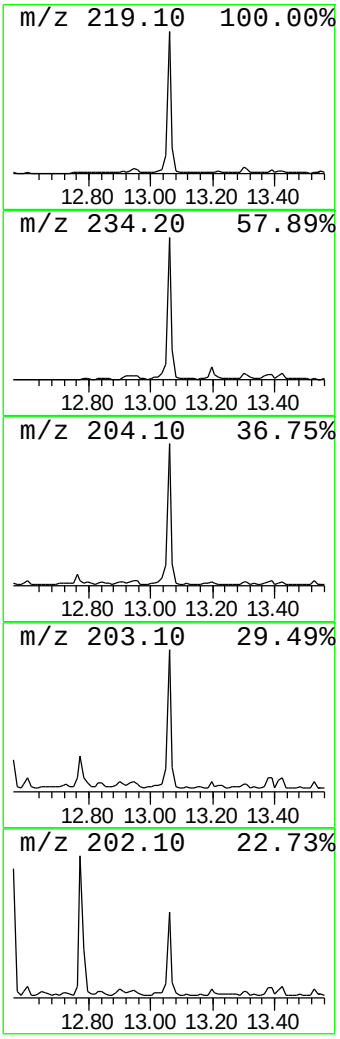
****

Peak Number 20 Phenanthrene, 1-methyl-7-(1... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	47.29 ng	5092680	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	99
2	2-Isopropyl-10-methylphenanthrene	234	C18H18	066552-97-4	91
3	Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	89
4	1-Phenyl-4-(3,5-dimethylphenyl)b...	234	C18H18	1000202-15-0	83
5	2,5-Diphenyl-2,4-hexadiene	234	C18H18	016819-47-9	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121316\
Data File : BF091566.D
Acq On : 13 Dec 2016 20:52
Operator : UM/SJ
Sample : H5994-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-47(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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
unknown6.59	6.59	58.0	ng	18405300	1	6.82	6352040	20.0
Pentadecane, 2,6,...	10.78	78.5	ng	9044680	4	11.34	2303160	20.0
unknown11.48	11.48	37.3	ng	4290650	4	11.34	2303160	20.0
unknown11.61	11.61	83.8	ng	9644960	4	11.34	2303160	20.0
Cyclohexanol, 2-[...	11.64	55.0	ng	6329900	4	11.34	2303160	20.0
4b,8-Dimethyl-2-i...	11.74	100.0	ng	11517100	4	11.34	2303160	20.0
unknown11.77	11.77	43.5	ng	5007550	4	11.34	2303160	20.0
unknown11.84	11.84	70.5	ng	8124580	4	11.34	2303160	20.0
unknown11.89	11.89	85.1	ng	9804060	4	11.34	2303160	20.0
unknown11.94	11.94	140.8	ng	16208500	4	11.34	2303160	20.0
unknown11.97	11.97	72.2	ng	8314960	4	11.34	2303160	20.0
2,6-Di(2-thienyl)...	12.04	154.5	ng	17796200	4	11.34	2303160	20.0
Dicyclopenta[a,d]...	12.10	117.3	ng	13509300	4	11.34	2303160	20.0
unknown12.20	12.20	144.3	ng	16621200	4	11.34	2303160	20.0
Benzamide, 2-phen...	12.37	148.2	ng	17067000	4	11.34	2303160	20.0
Naphthalene, 6-et...	12.46	50.9	ng	5858710	4	11.34	2303160	20.0
Phenanthrene, 1-m...	13.06	47.3	ng	5092680	5	13.96	2153590	20.0