LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090969.D
Acq On : 1 Nov 2016 23:38
Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.190	6	9	21	rVB	91565	220557	3.43%	0.266%
2	2.338	21	22	34	rVB	133970	264786	4.12%	0.319%
3	4.350	195	198	201	rBV	254540	334015	5.20%	0.403%
4	4.910	244	247	260	rBV	827912	1470246	22.88%	1.773%
5	5.344	282	285	287	rBV	4820197	6081789	94.64%	7.333%
6	6.396	373	377	379	rBV	3814834	6426216	100.00%	7.748%
7	6.510	384	387	389	rVV	5284527	5727184	89.12%	6.905%
8	6.590	392	394	399	rVB	34932	68174	1.06%	0.082%
9	6.739	405	407	409	rBV	1163130	1078893	16.79%	1.301%
10	6.899	418	421	423	rBV	4158418	4835088	75.24%	5.830%
11	7.310	454	457	459	rBV	3431590	3988295	62.06%	4.809%
12	7.413	464	466	472	rVB	47899	78022	1.21%	0.094%
13	7.767	495	497	501	rBV2	43165	77776	1.21%	0.094%
14	8.019	517	519	524	rBV2	1209477	2095927	32.62%	2.527%
15	8.739	579	582	584	rBV	215071	196751	3.06%	0.237%
16	8.830	588	590	593	rVV	112263	131039	2.04%	0.158%
17	9.105	611	614	616	rBV	5742330	5471429	85.14%	6.597%
18	9.208	620	623	625	rBV2	43909	67123	1.04%	0.081%
19	9.368	634	637	638	rBV	70518	120819	1.88%	0.146%
20	9.436	641	643	644	rVV	94724	93690	1.46%	0.113%
21	9.505	647	649	651	rVB	1330193	1361830	21.19%	1.642%
22	9.630	658	660	663	rVB	80999	110761	1.72%	0.134%
23	9.722	666	668	670	rVB	71615	66523	1.04%	0.080%
24	9.779	670	673	674	rBV	1634990	1589289	24.73%	1.916%
25	9.802	674	675	678	rVB	236247	287473	4.47%	0.347%
26	9.985	689	691	693	rBV	260429	355041	5.52%	0.428%
27	10.190	705	709	710	rBV2	45608	79630	1.24%	0.096%
28	10.213	710	711	713	rVB	152514	159843	2.49%	0.193%
29	10.316	719	720	724	rBV	223838	256201	3.99%	0.309%
30	10.431	727	730	733	rBV2	69073	153483	2.39%	0.185%
31	10.476	733	734	737	rVB2	81173	107746	1.68%	0.130%
32	10.568	739	742	744	rBV	3247724	3267280	50.84%	3.939%
33	10.693	751	753	757	rBV	281895	406994	6.33%	0.491%
34	10.876	764	769	774	rBV4	64080	206276	3.21%	0.249%

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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

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.025	777	782	784	rBV4	46815	131355	2.04%	0.158%
36	11.059	784	785	788	rVB	229969	313255	4.87%	0.378%
37	11.139	790	792	797	rVB2	273153	540254	8.41%	0.651%
38	11.288	800	805	807	rBV2	3836008	5060327	78.75%	6.101%
39	11.333	807	809	811	rVB	513876	472436	7.35%	0.570%
40	11.493	820	823	827	rBV	337446	482611	7.51%	0.582%
41	11.562	827	829	830	rVV2	242209	227066	3.53%	0.274%
42	11.596	830	832	836	rVB2	50044	87824	1.37%	0.106%
43	11.722	840	843	844	rBV2	38469	65462	1.02%	0.079%
44	11.756	844	846	847	rBV	272716	257784	4.01%	0.311%
45	11.791	847	849	851	rVB	342815	368327	5.73%	0.444%
46	11.836	851	853	854	rBV2	82232	101110	1.57%	0.122%
47	11.871	854	856	861	rBV2	357758	578831	9.01%	0.698%
48	11.974	861	865	866	rBV2	184789	248217	3.86%	0.299%
49	12.076	871	874	877	rBV2	380561	548025	8.53%	0.661%
50	12.202	883	885	887	rBV3	64841	101704	1.58%	0.123%
51	12.259	887	890	892	rBV2	81323	150702	2.35%	0.182%
52	12.316	892	895	896	rBV2	111105	187477	2.92%	0.226%
53	12.362	896	899	900	rVB2	139858	174916	2.72%	0.211%
54	12.396	900	902	904	rVB	169495	193587	3.01%	0.233%
55	12.476	906	909	910	rBV	2695937	3325338	51.75%	4.009%
56	12.614	918	921	925	rBV4	125154	324544	5.05%	0.391%
57	12.694	925	928	930	rVV2	2109980	2848994	44.33%	3.435%
58	12.728	930	931	937	rVB3	140070	250827	3.90%	0.302%
59	12.842	939	941	944	rVV	3145920	4183448	65.10%	5.044%
60	12.922	944	948	952	rVV4	128934	372870	5.80%	0.450%
61	13.025	952	957	959	rVB3	210860	418032	6.51%	0.504%
62	13.094	960	963	964	rVV3	114166	168110	2.62%	0.203%
63	13.128	964	966	968	rBV	322963	403504	6.28%	0.487%
64	13.219	971	974	975	rVV2	175939	266817	4.15%	0.322%
65	13.254	975	977	978	rVB2	98583	115815	1.80%	0.140%
66	13.425	990	992	996	rBV4	145465	306271	4.77%	0.369%
67	13.528	999	1001	1005	rBV2	299598	495335	7.71%	0.597%
68	13.642	1008	1011	1012	rBV	288600	420981	6.55%	0.508%
69	13.745	1017	1020	1024	rVB2	500747	794476	12.36%	0.958%
70	13.894	1028	1033	1034	rBV2	1773915	2887146	44.93%	3.481%
71	13.997	1040	1042	1044	rVB	184928	168001	2.61%	0.203%

LSC Area Percent Report

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Smoothing : ON Filtering: 5
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.282	1065	1067	1068	rVV	204476	181209	2.82%	0.218%
73	14.317	1068	1070	1072	rVB2	139955	140080	2.18%	0.169%
74	14.477	1082	1084	1087	rBV	188535	272287	4.24%	0.328%
75	14.900	1119	1121	1126	rBV	1132695	2220392	34.55%	2.677%
76	15.185	1143	1146	1148	rBV	522027	864048	13.45%	1.042%
77	15.242	1148	1151	1153	rVV	756397	1110238	17.28%	1.339%
78	15.300	1153	1156	1163	rVB2	589379	1348032	20.98%	1.625%
79	16.625	1269	1272	1276	rVB2	386166	763841	11.89%	0.921%
80	17.025	1304	1307	1320	rVB	300785	761743	11.85%	0.918%

Sum of corrected areas: 82939838

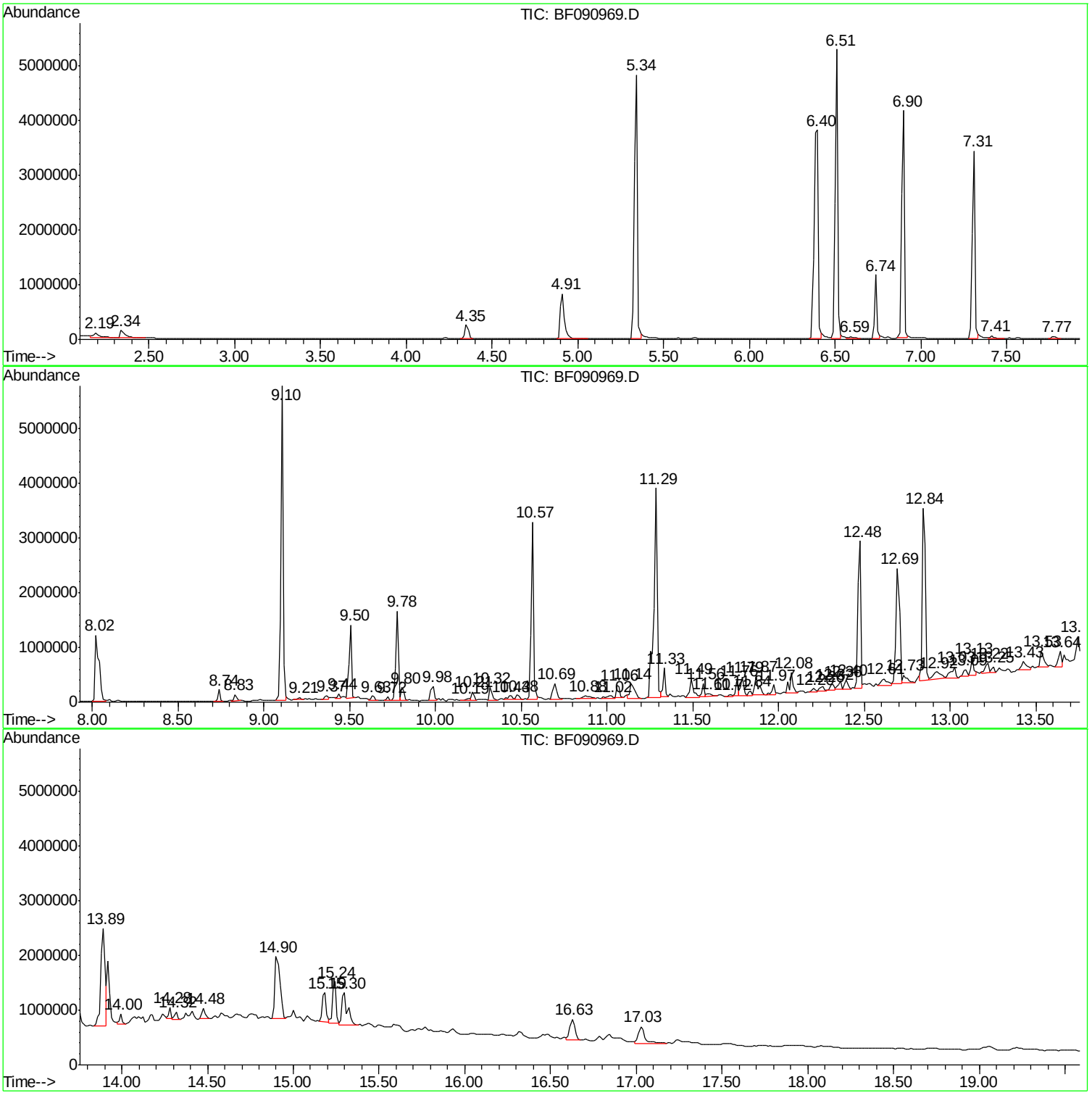
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090969.D
Acq On : 1 Nov 2016 23:38
Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090969.D
Acq On : 1 Nov 2016 23:38
Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

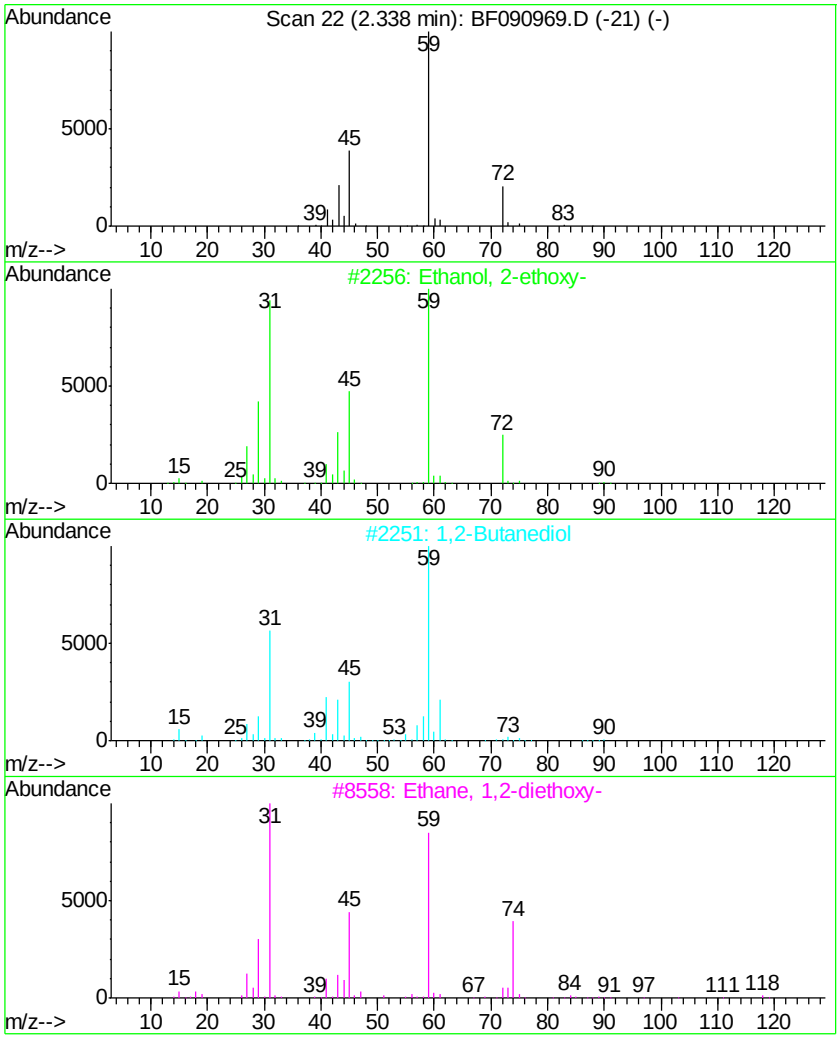
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

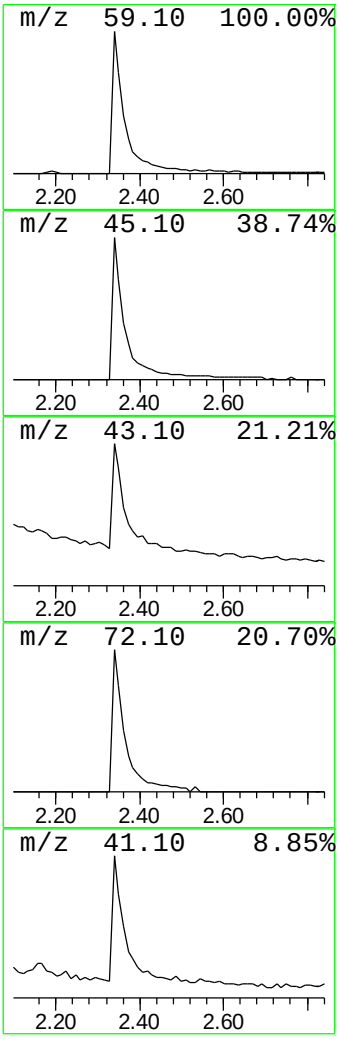
****

Peak Number 2 Ethanol, 2-ethoxy- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.34	4.91 ng	264786	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-ethoxy-	90	C4H10O2	000110-80-5	83
2	1,2-Butanediol	90	C4H10O2	000584-03-2	39
3	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	39
4	Guanidine, monothiocyanate	116	C2H4N4S	056960-89-5	9
5	Butanamide	87	C4H9NO	000541-35-5	9





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Sample : H5489-14
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ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
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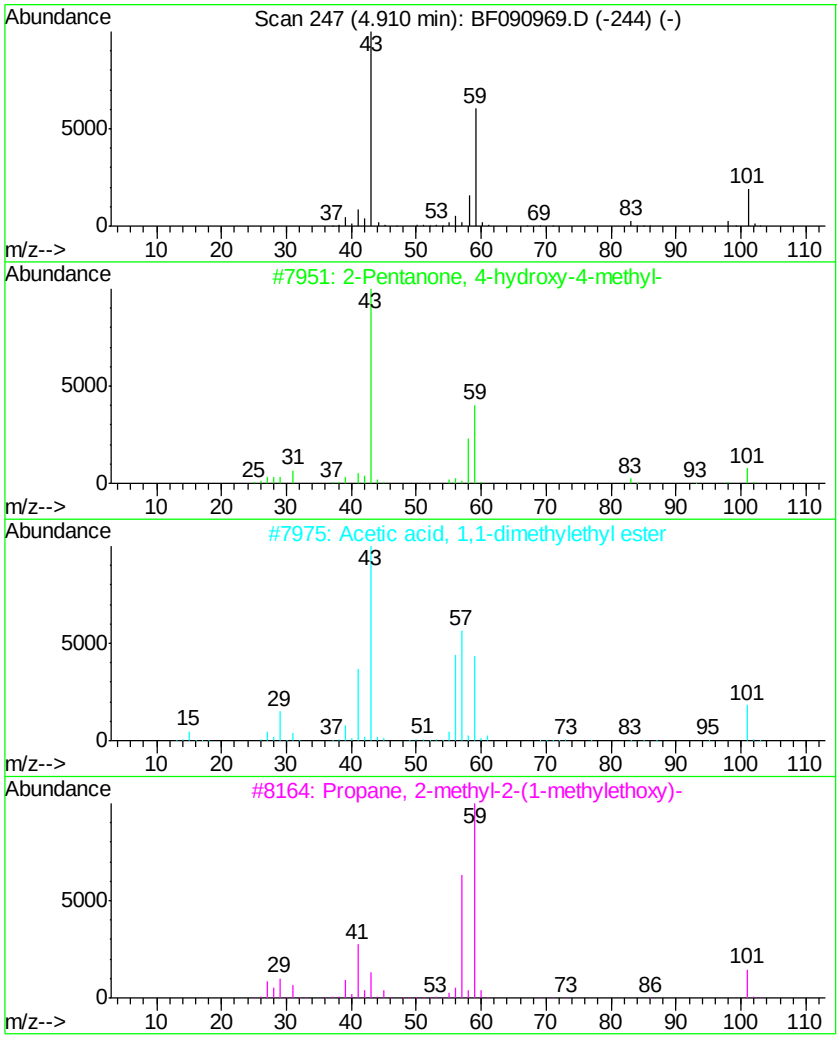
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

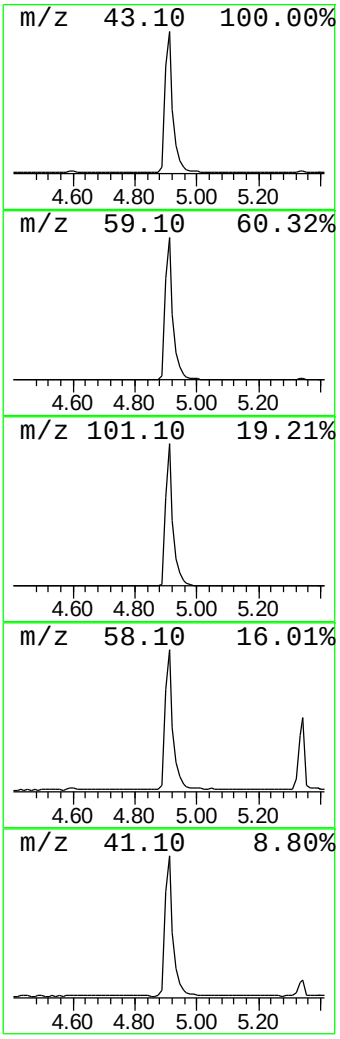
****

Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.91	27.25 ng	1470250	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, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	5-Hexen-2-one	98	C6H10O	000109-49-9	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
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Acq On : 1 Nov 2016 23:38
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TIC Library : C:\DATABASE\NIST02.L
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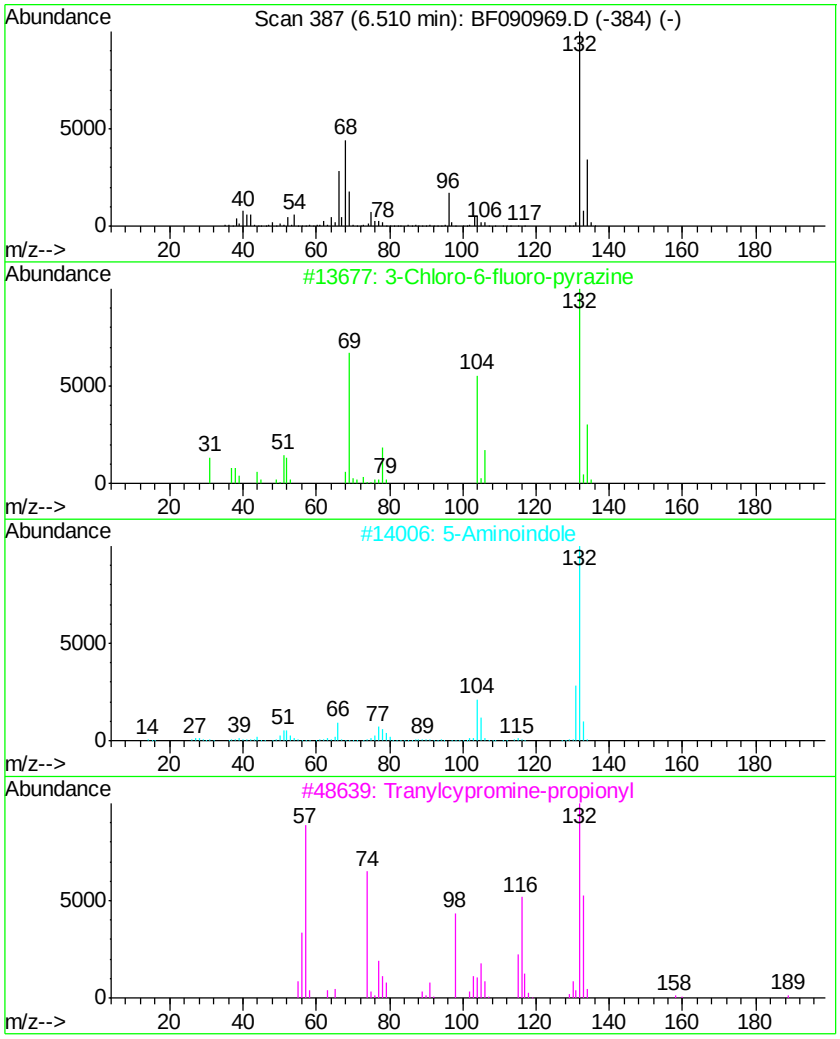
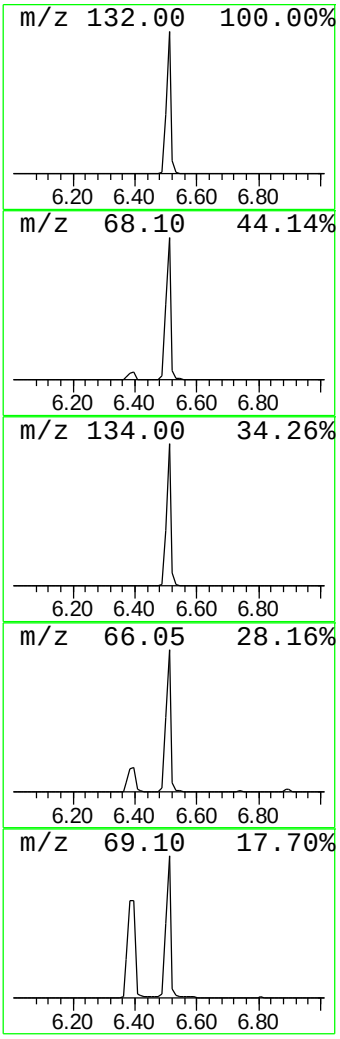
****

Peak Number 5 unknown6.51 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	106.17 ng	5727180	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	16
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	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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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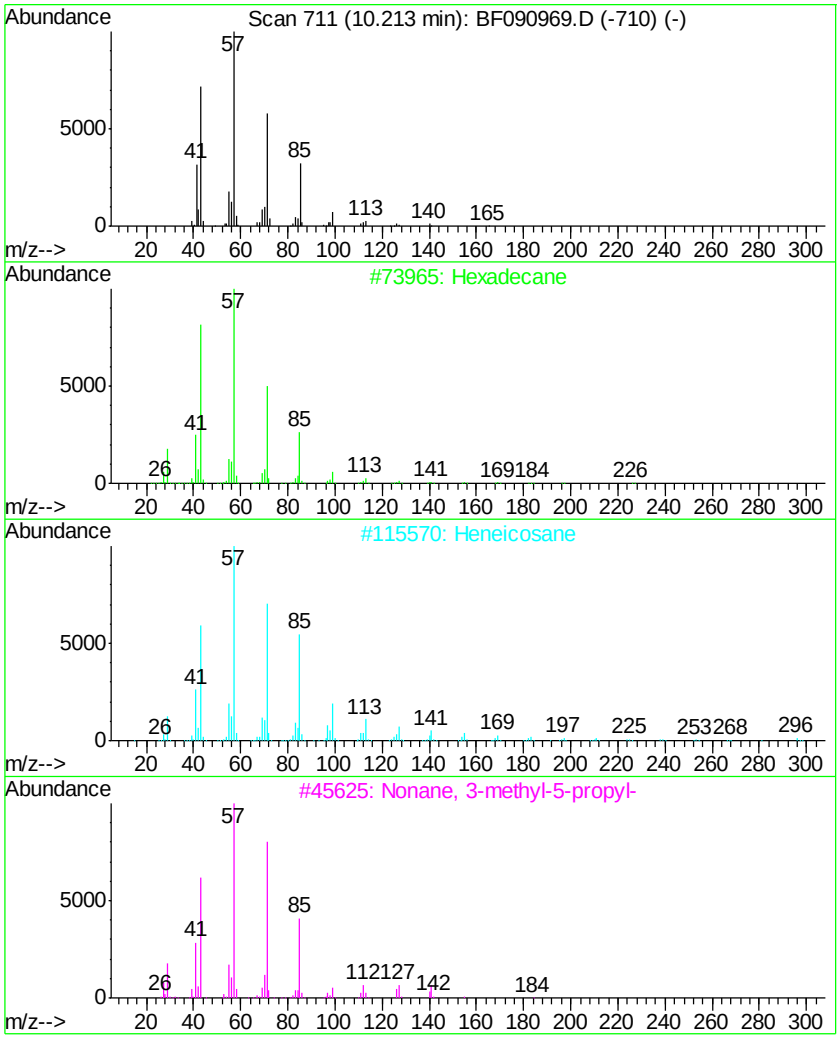
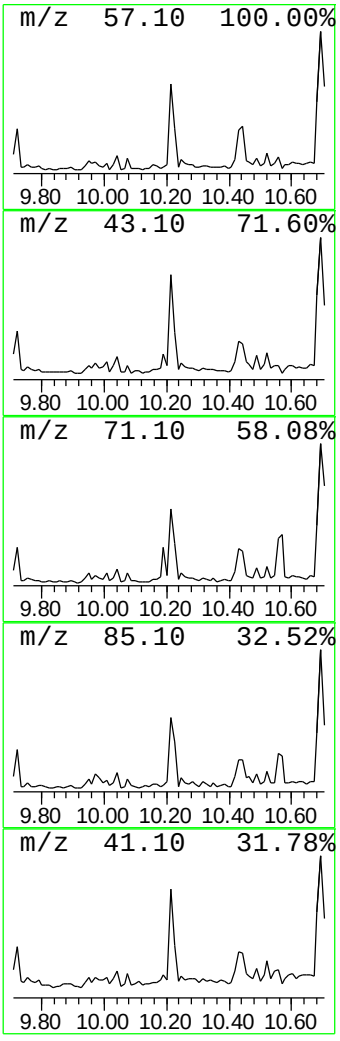
Peak Number 7 Hexadecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	2.01 ng	159843	Acenaphthene-d10	9.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Heneicosane	296	C21H44	000629-94-7	83
3	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	83
4	Heptadecane	240	C17H36	000629-78-7	83
5	Dodecane, 2-methyl-	184	C13H28	001560-97-0	64





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Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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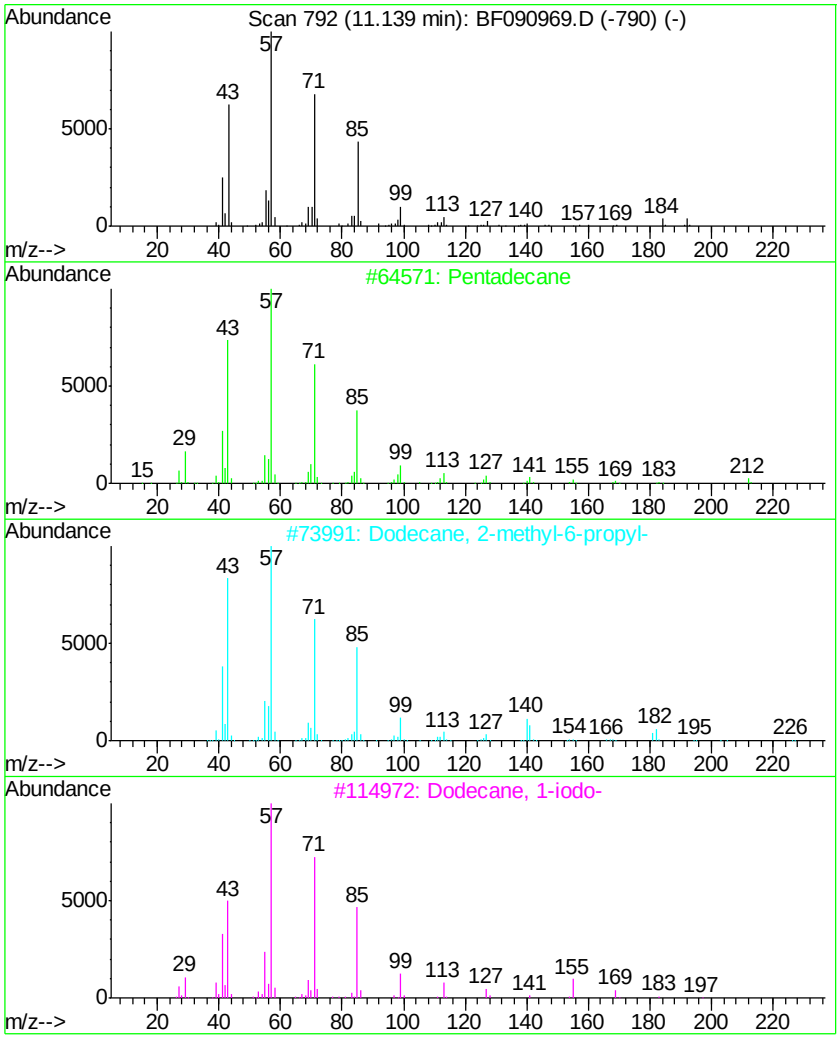
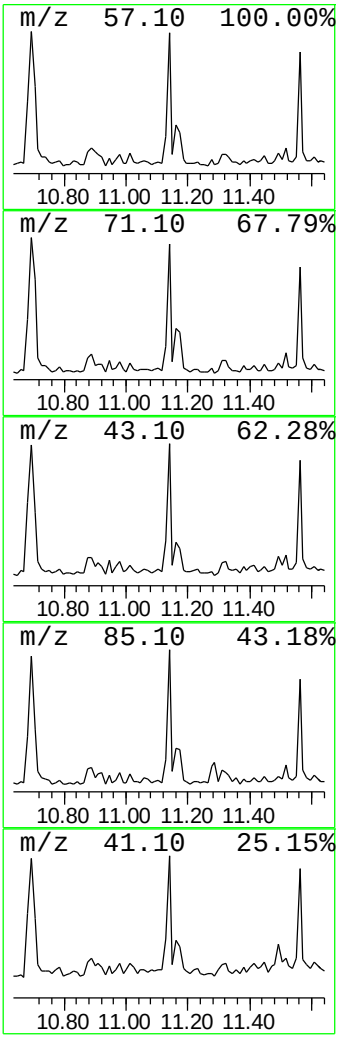
Peak Number 8 Pentadecane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	2.14 ng	540254	Phenanthrene-d10	11.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	86
2	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	80
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
4	1,3-Dimethylcyclopentanol	114	C7H14O	019550-46-0	64
5	Decane, 3-methyl-	156	C11H24	013151-34-3	64





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Data File : BF090969.D
Acq On : 1 Nov 2016 23:38
Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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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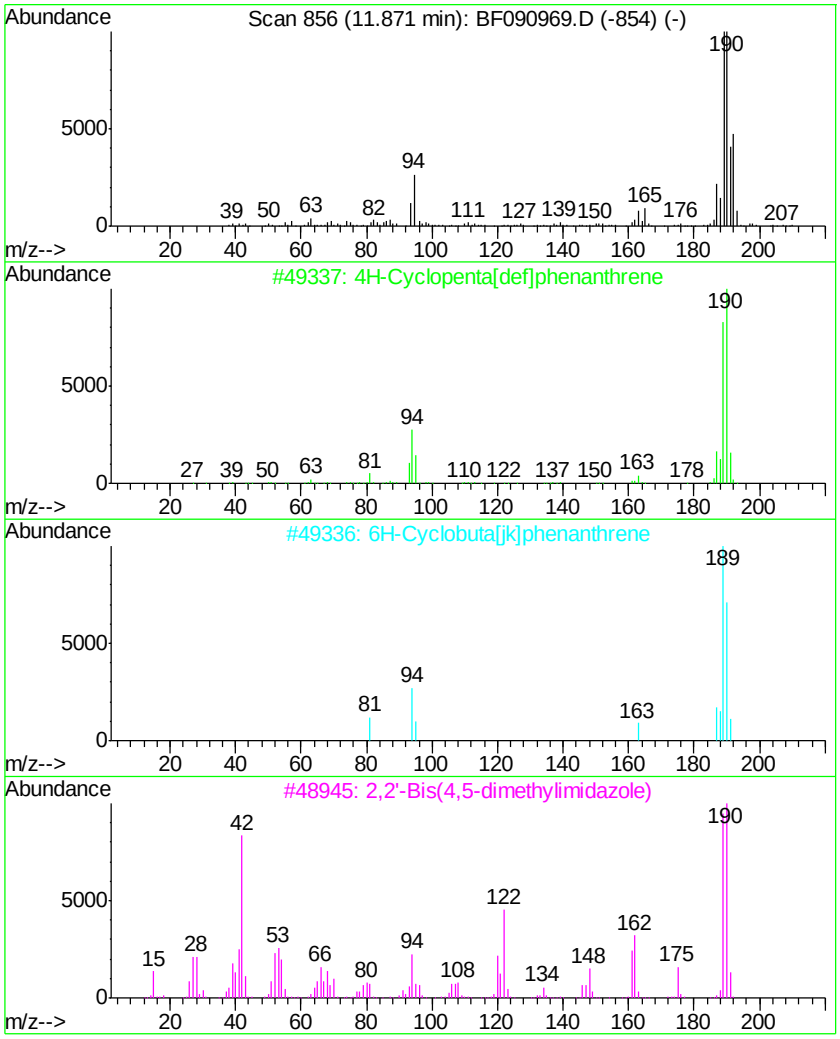
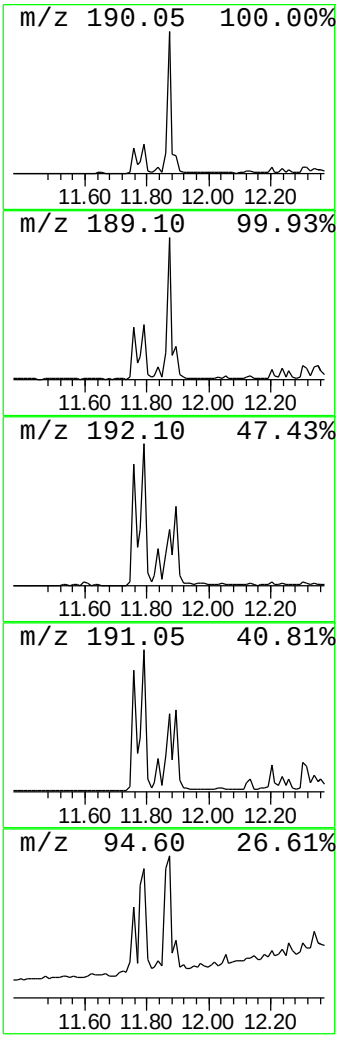
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	2.29 ng	578831	Phenanthrene-d10	11.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17
5	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	17





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090969.D
Acq On : 1 Nov 2016 23:38
Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

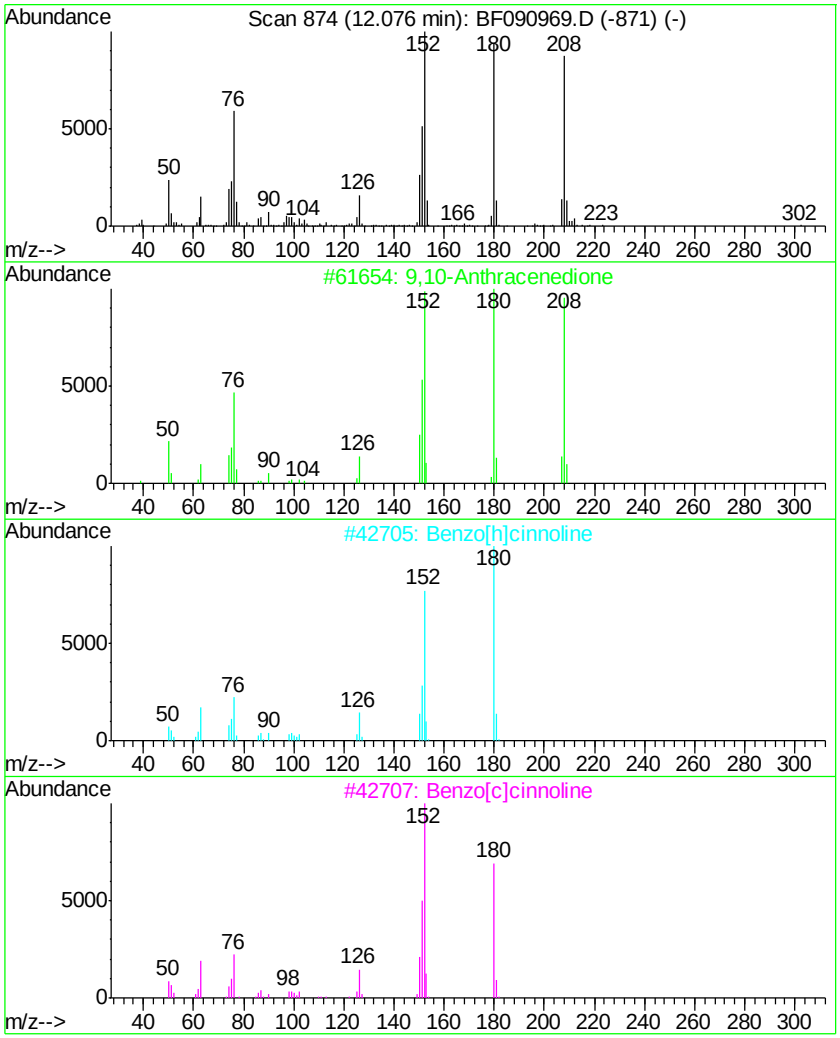
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

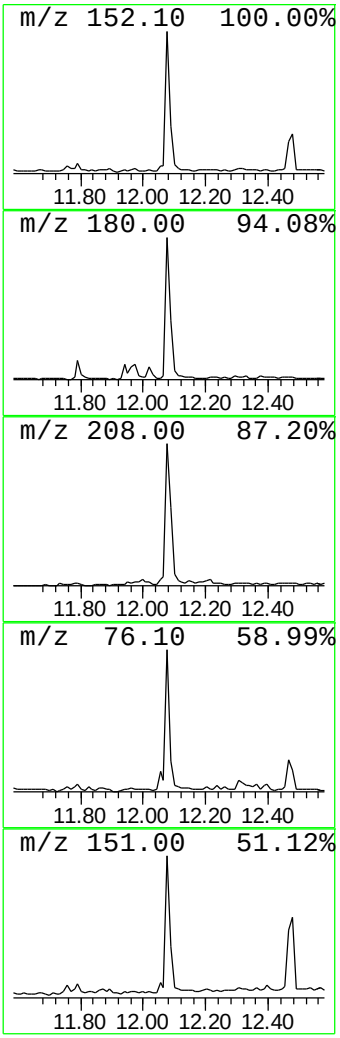
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	2.17 ng	548025	Phenanthrene-d10	11.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53





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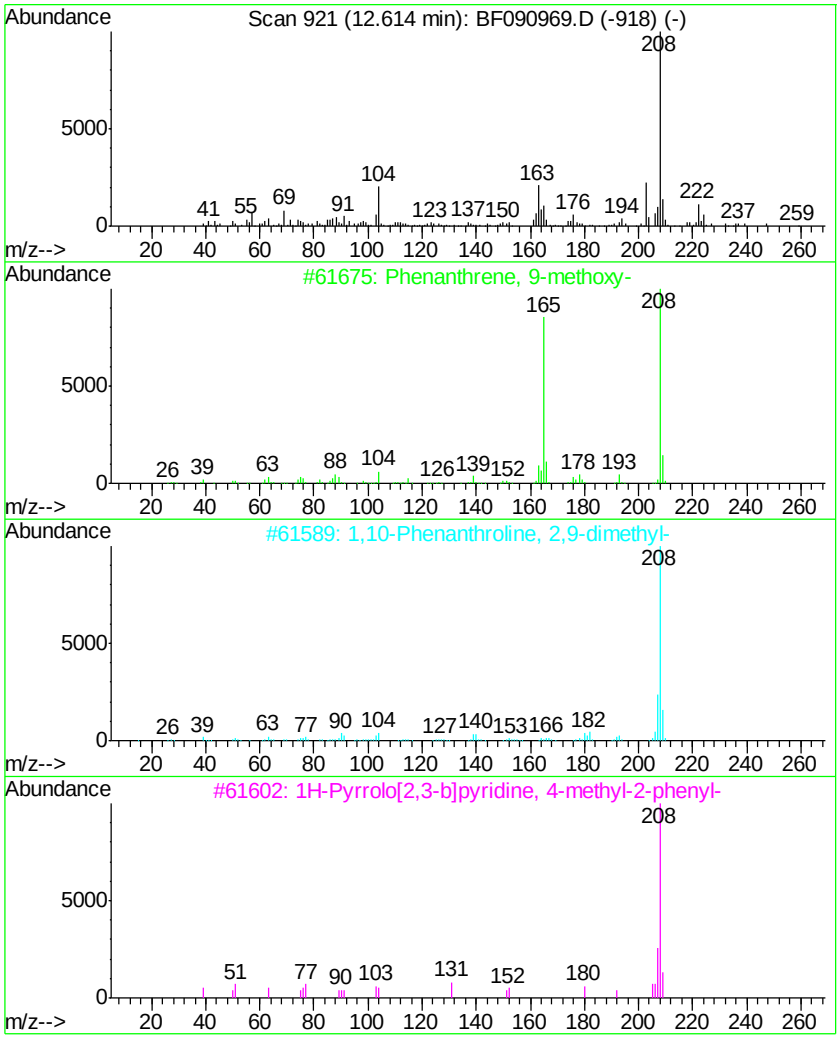
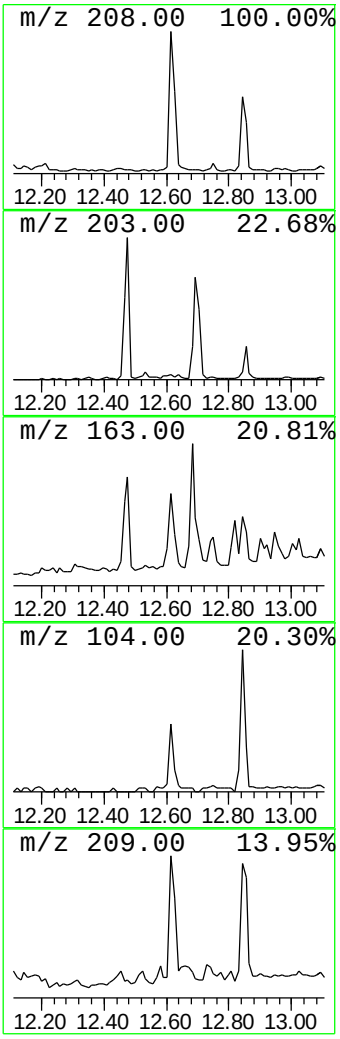
Peak Number 11 unknown12.61 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	2.25 ng	324544	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9-methoxy-	208	C15H12O	005085-74-5	46
2	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	43
3	1H-Pyrrolo[2,3-b]pyridine, 4-met...	208	C14H12N2	023688-50-8	43
4	Indole, 6-methyl-2-(3-pyridyl)-	208	C14H12N2	293762-69-3	43
5	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	43





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ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
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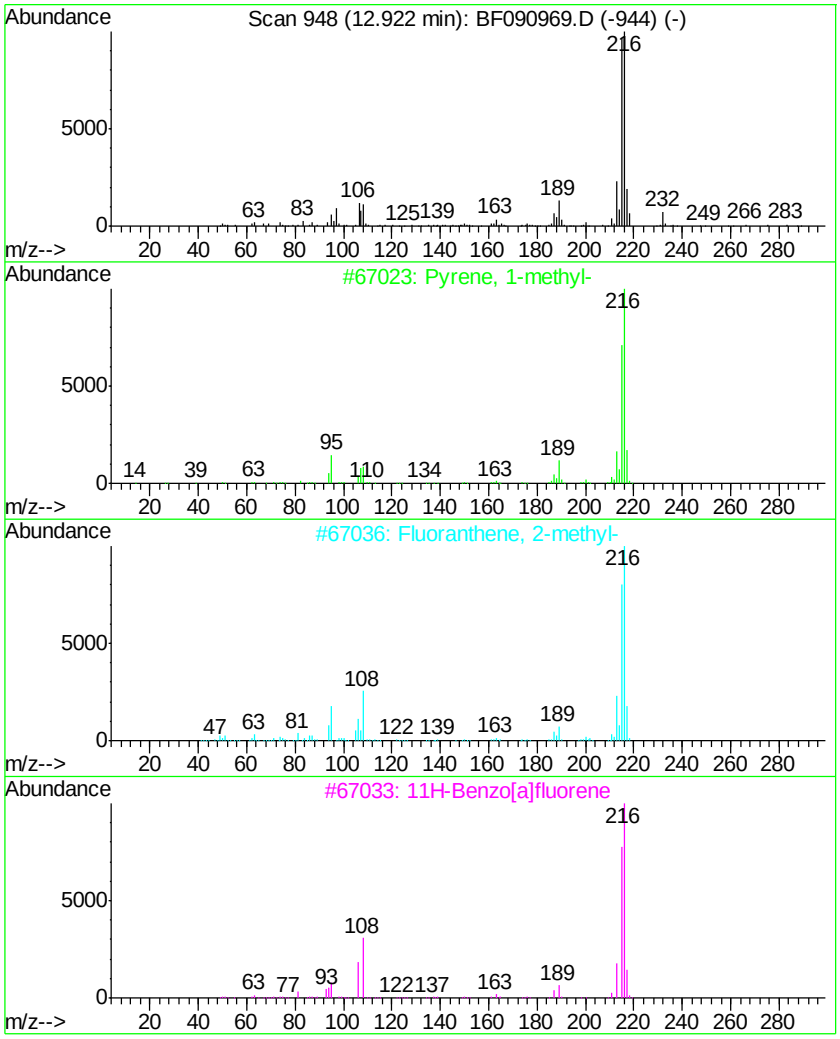
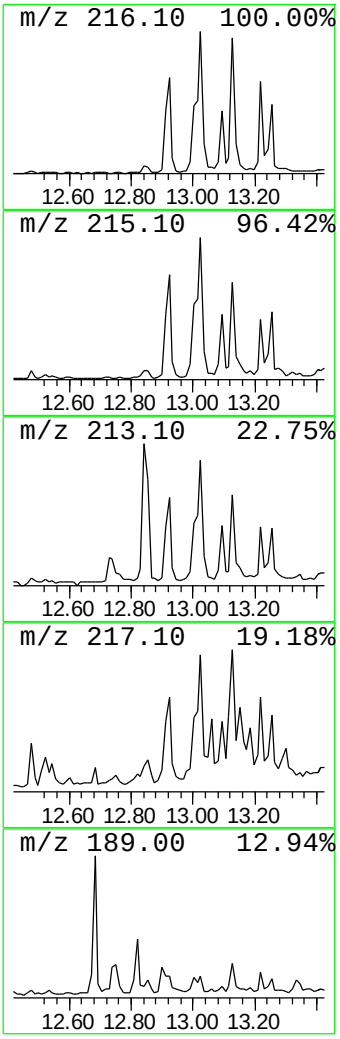
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	2.58 ng	372870	Chrysene-d12	13.89

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	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
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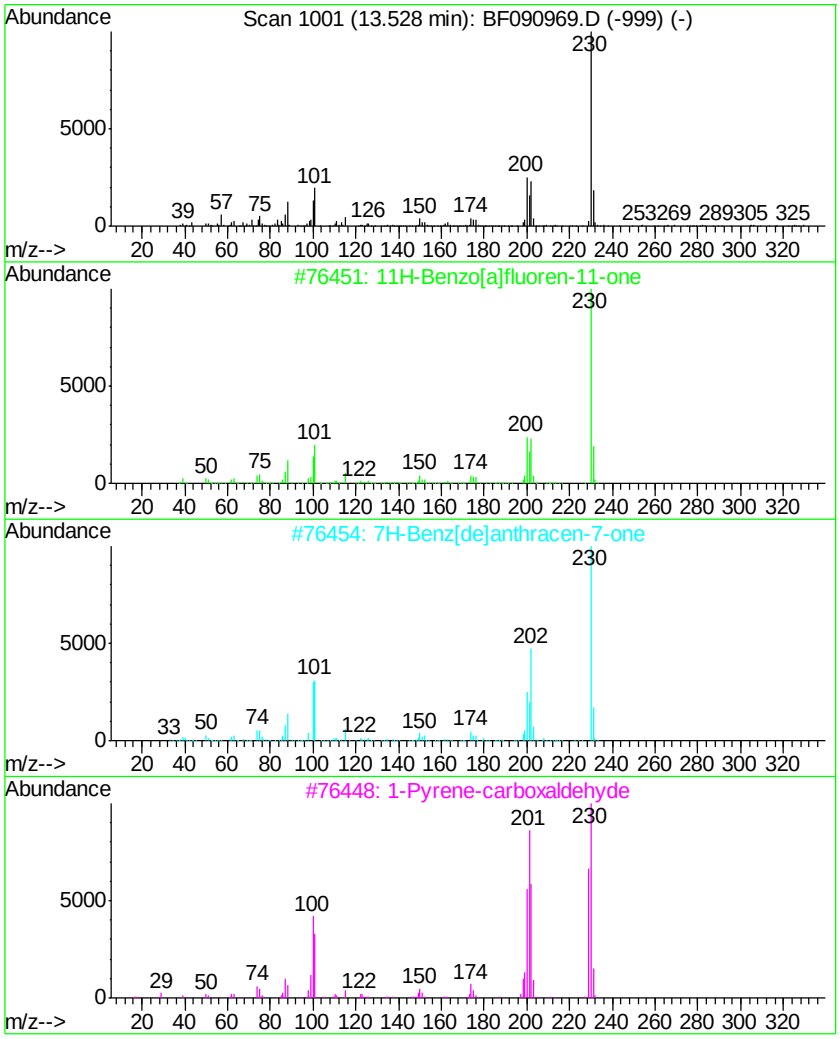
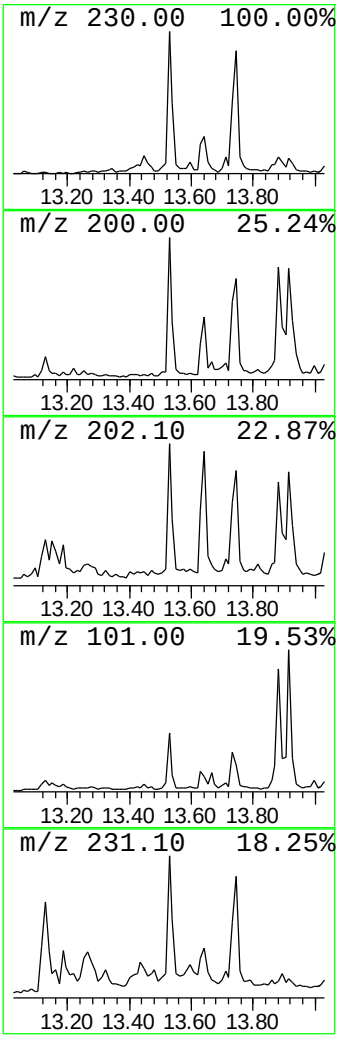
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.53	3.43 ng	495335	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	99
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	72
4	4-Methoxy-2-(p-methoxyphenyl)-6-...	230	C13H14N2O2	063896-93-5	47
5	2-Chloro-9-xanthenone	230	C13H7ClO2	013210-15-6	47





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Operator : UM/SJ
Sample : H5489-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-74-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
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TIC Integration Parameters: LSCINT.P

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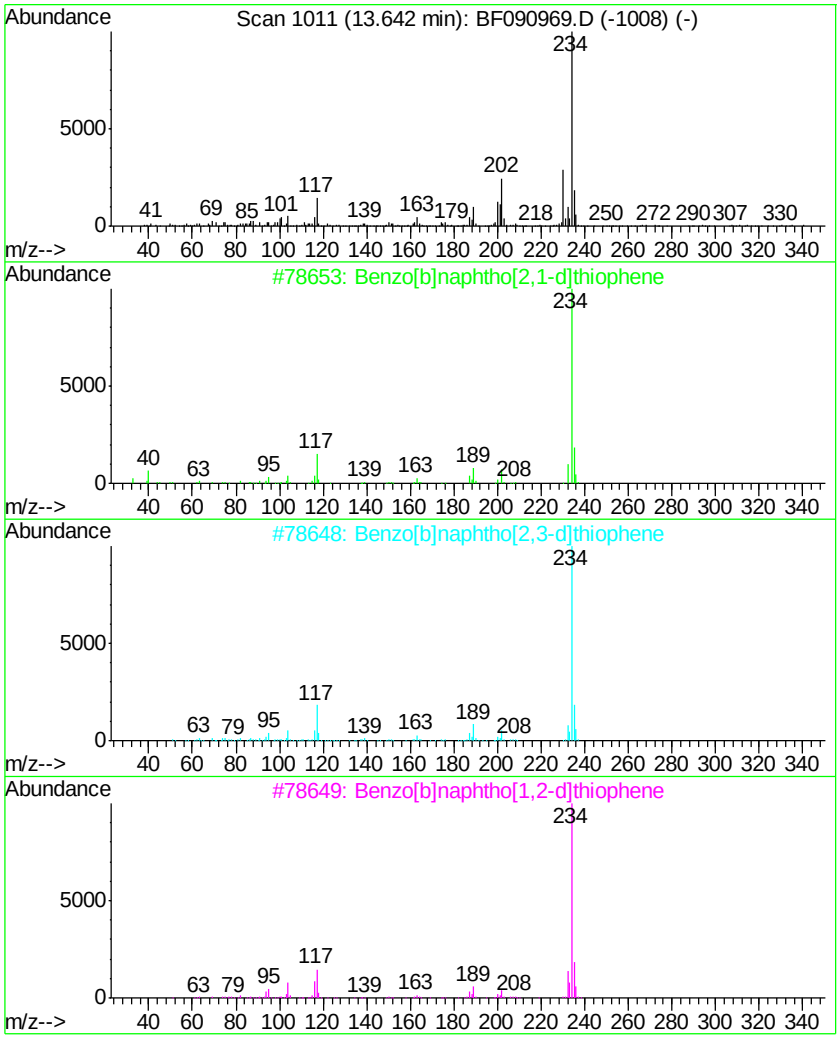
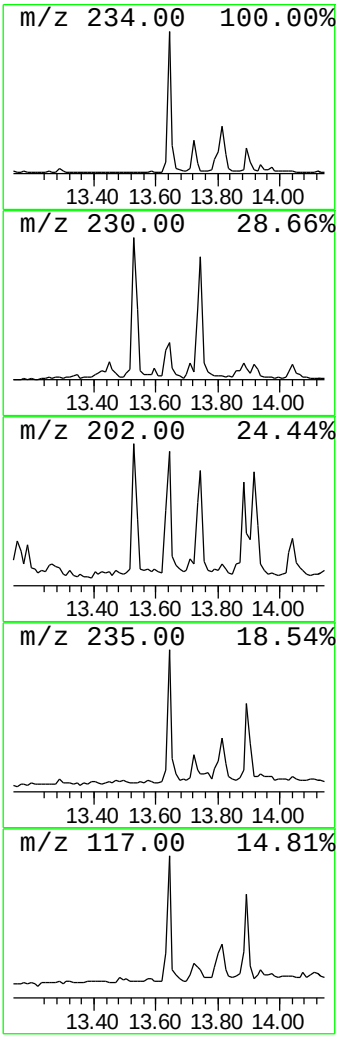
Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	2.92 ng	420981	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	91
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	86
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	49
4	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	43
5	Anthra[1,9a,9-cd;5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	38





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Instrument : BNA_F
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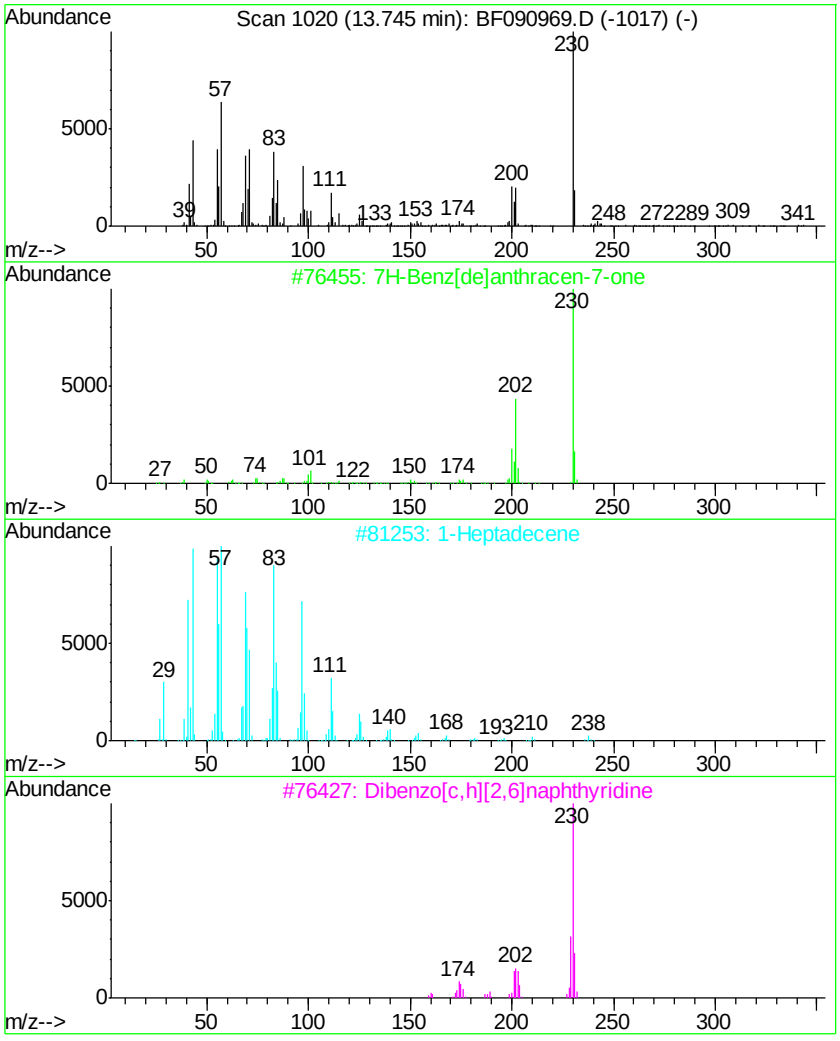
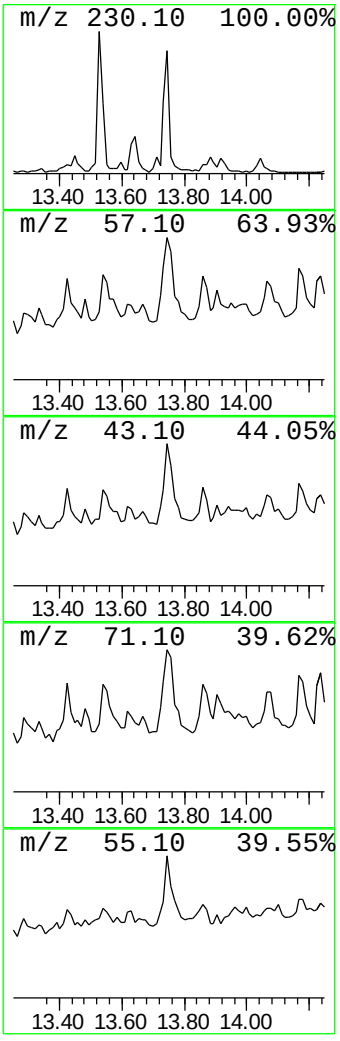
Peak Number 18 7H-Benz[de]anthracen-7-one Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	5.50 ng	794476	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	62
2	1-Heptadecene	238	C17H34	006765-39-5	60
3	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	59
4	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	38
5	m-Terphenyl	230	C18H14	000092-06-8	25





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
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ClientSampleId : SB-74-0.5-1.0

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

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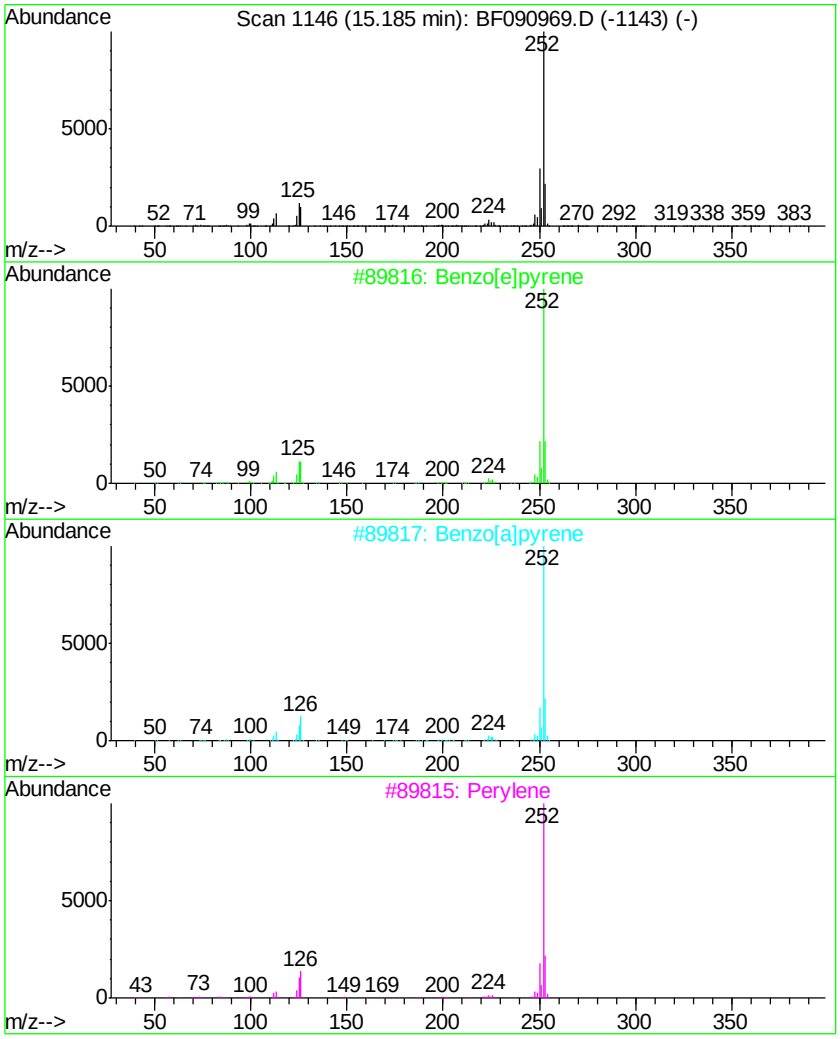
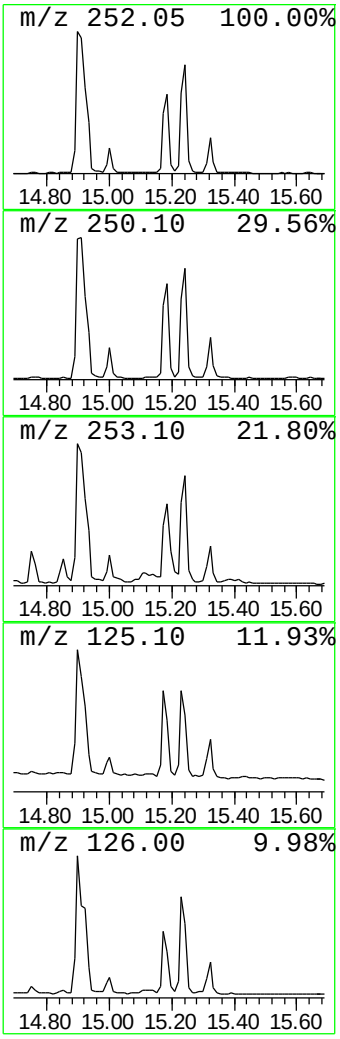
Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	12.82 ng	864048	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[a]pyrene	252	C20H12	000050-32-8	93
3	Perylene	252	C20H12	000198-55-0	90
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

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

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethanol, 2-ethoxy-	2.34	4.9	ng	264786	1	6.74	1078890	20.0
2-Pentanone, 4-hy...	4.91	27.3	ng	1470250	1	6.74	1078890	20.0
unknown6.51	6.51	106.2	ng	5727180	1	6.74	1078890	20.0
Hexadecane	10.21	2.0	ng	159843	3	9.78	1589290	20.0
Pentadecane	11.14	2.1	ng	540254	4	11.26	5060330	20.0
4H-Cyclopenta[def...	11.87	2.3	ng	578831	4	11.26	5060330	20.0
9,10-Anthracenedione	12.08	2.2	ng	548025	4	11.26	5060330	20.0
unknown12.61	12.61	2.3	ng	324544	5	13.89	2887150	20.0
Pyrene, 1-methyl-	12.92	2.6	ng	372870	5	13.89	2887150	20.0
11H-Benzo[a]fluor...	13.53	3.4	ng	495335	5	13.89	2887150	20.0
Benzo[b]naphtho[2...	13.64	2.9	ng	420981	5	13.89	2887150	20.0
7H-Benz[de]anthra...	13.75	5.5	ng	794476	5	13.89	2887150	20.0
Benzo[e]pyrene	15.19	12.8	ng	864048	6	15.30	1348030	20.0