LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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	4.898	243	246	260	rBV	712940	1077574	21.17%	1.488%
2	5.287	277	280	282	rBV2	31071	54413	1.07%	0.075%
3	5.333	282	284	287	rBV	4027336	4200340	82.51%	5.799%
4	5.550	301	303	308	rBV	57364	88517	1.74%	0.122%
5	6.384	373	376	384	rBV	3899090	4678674	91.91%	6.459%
6	6.510	384	387	389	rVV	4001778	4910761	96.46%	6.779%
7	6.567	389	392	395	rVB2	69734	125049	2.46%	0.173%
8	6.613	395	396	404	rVB	29549	54338	1.07%	0.075%
9	6.739	404	407	409	rBV	1042154	1091112	21.43%	1.506%
10	6.887	418	420	423	rBV	2799739	3464845	68.06%	4.783%
11	7.002	427	430	434	rVB	77195	122450	2.41%	0.169%
12	7.299	454	456	459	rBV	1866443	2805667	55.11%	3.873%
13	7.344	459	460	463	rVB2	63634	88480	1.74%	0.122%
14	7.779	495	498	499	rBV2	55687	72842	1.43%	0.101%
15	8.019	517	519	525	rBV2	1501987	1852109	36.38%	2.557%
16	8.453	555	557	562	rVB2	38301	70237	1.38%	0.097%
17	8.625	570	572	574	rBV	104787	105909	2.08%	0.146%
18	8.670	574	576	579	rVV2	49321	96117	1.89%	0.133%
19	8.739	579	582	584	rVV	114339	114866	2.26%	0.159%
20	8.830	588	590	594	rVB	68561	87554	1.72%	0.121%
21	9.105	611	614	616	rBV	5535609	5090719	100.00%	7.028%
22	9.185	619	621	624	rBV2	90177	130661	2.57%	0.180%
23	9.367	634	637	638	rBV	40554	67214	1.32%	0.093%
24	9.436	641	643	644	rBV	68583	64160	1.26%	0.089%
25	9.505	646	649	651	rBV2	691257	991607	19.48%	1.369%
26	9.630	658	660	663	rBV	733028	904205	17.76%	1.248%
27	9.722	666	668	670	rVB	121379	133393	2.62%	0.184%
28	9.779	670	673	675	rBV	1455060	1645965	32.33%	2.272%
29	9.939	684	687	689	rBV3	54233	108738	2.14%	0.150%
30	9.973	689	690	692	rVB	50913	67721	1.33%	0.093%
31	10.088	698	700	703	rBV2	106631	187356	3.68%	0.259%
32	10.179	706	708	709	rBV2	47733	75523	1.48%	0.104%
33	10.225	709	712	714	rVV2	247589	374365	7.35%	0.517%
34	10.293	716	718	719	rVB	123432	105379	2.07%	0.145%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

35	10.328	719	721	724	rVB	93164	147081	2.89%	0.203%
36	10.430	727	730	733	rBV	195949	327393	6.43%	0.452%
37	10.499	733	736	739	rVB4	56240	134879	2.65%	0.186%
38	10.568	739	742	744	rBV	2164751	2578051	50.64%	3.559%
39	10.682	750	752	756	rBV3	325611	685592	13.47%	0.946%
40	10.876	766	769	774	rBV4	48598	173751	3.41%	0.240%
41	11.013	779	781	783	rVV2	138711	180148	3.54%	0.249%
42	11.059	783	785	787	rVV2	91445	129038	2.53%	0.178%
43	11.139	790	792	793	rVV2	188173	244241	4.80%	0.337%
44	11.162	793	794	797	rVB	151732	173910	3.42%	0.240%
45	11.253	800	802	807	rBV2	1371320	1674784	32.90%	2.312%
46	11.333	807	809	811	rVV	490631	442174	8.69%	0.610%
47	11.368	811	812	814	rVB2	77467	71270	1.40%	0.098%
48	11.413	814	816	818	rBV2	31934	60223	1.18%	0.083%
49	11.493	821	823	824	rBV	76728	74357	1.46%	0.103%
50	11.562	827	829	830	rVB2	136441	116676	2.29%	0.161%
51	11.756	844	846	847	rBV	118695	122136	2.40%	0.169%
52	11.791	847	849	851	rVB	93608	144880	2.85%	0.200%
53	11.836	851	853	854	rBV	152120	181853	3.57%	0.251%
54	11.871	854	856	861	rVB	238749	416161	8.17%	0.575%
55	11.973	863	865	869	rVV3	77337	165922	3.26%	0.229%
56	12.236	886	888	891	rVB4	105689	195736	3.84%	0.270%
57	12.305	892	894	896	rBV	300356	359904	7.07%	0.497%
58	12.339	896	897	900	rVV2	141946	293225	5.76%	0.405%
59	12.396	900	902	904	rVV2	217613	330405	6.49%	0.456%
60	12.465	906	908	910	rBV	1222675	1123677	22.07%	1.551%
61	12.511	910	912	915	rVV4	61183	113259	2.22%	0.156%
62	12.556	915	916	918	rVB	190039	217332	4.27%	0.300%
63	12.614	918	921	922	rBV2	83493	166231	3.27%	0.229%
64	12.694	925	928	930	rBV	1896762	1876921	36.87%	2.591%
65	12.751	932	933	935	rVB	130345	168991	3.32%	0.233%
66	12.842	939	941	944	rVV	3451763	3596352	70.65%	4.965%
67	12.911	945	947	951	rBV2	276885	500864	9.84%	0.691%
68	13.002	953	955	959	rVB2	291615	676529	13.29%	0.934%
69	13.094	961	963	964	rVV2	132754	158698	3.12%	0.219%
70	13.128	964	966	968	rVV	495123	505374	9.93%	0.698%
71	13.219	970	974	975	rVV	531816	627076	12.32%	0.866%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

72	13.254	975	977	979	rVV	404757	470282	9.24%	0.649%
73	13.288	979	980	982	rVV2	73843	72543	1.43%	0.100%
74	13.334	982	984	986	rVV3	146638	224153	4.40%	0.309%
75	13.391	988	989	991	rVV2	144167	213008	4.18%	0.294%
76	13.471	995	996	998	rVV	159151	141786	2.79%	0.196%
77	13.528	999	1001	1004	rVV2	210481	333838	6.56%	0.461%
78	13.642	1008	1011	1014	rBV4	225596	633520	12.44%	0.875%
79	13.745	1018	1020	1024	rVB2	473412	650814	12.78%	0.898%
80	13.894	1030	1033	1039	rVB2	1455174	3313822	65.10%	4.575%
81	14.214	1059	1061	1062	rBV2	139850	204444	4.02%	0.282%
82	14.282	1064	1067	1068	rVV	407665	448569	8.81%	0.619%
83	14.317	1068	1070	1071	rVB	225301	257283	5.05%	0.355%
84	14.385	1071	1076	1077	rBV5	304420	673022	13.22%	0.929%
85	14.911	1119	1122	1127	rBV	1293190	2769266	54.40%	3.823%
86	15.002	1128	1130	1132	rVB	428080	431710	8.48%	0.596%
87	15.185	1143	1146	1148	rVB	841982	1166213	22.91%	1.610%
88	15.242	1148	1151	1153	rBV	1386228	1647912	32.37%	2.275%
89	15.300	1153	1156	1157	rBV	657460	914705	17.97%	1.263%
90	15.585	1179	1181	1183	rBV	110484	133114	2.61%	0.184%
91	15.814	1199	1201	1205	rVB3	163488	309587	6.08%	0.427%
92	16.625	1269	1272	1277	rVB	510424	1034252	20.32%	1.428%
93	16.785	1283	1286	1288	rBV	117757	228947	4.50%	0.316%
94	16.843	1288	1291	1293	rVV2	102830	186069	3.66%	0.257%
95	17.037	1304	1308	1315	rVB	469696	1057851	20.78%	1.460%
96	17.243	1324	1326	1334	rVB2	93366	238848	4.69%	0.330%
97	19.060	1480	1485	1493	rVB2	112112	416342	8.18%	0.575%

Sum of corrected areas: 72435854

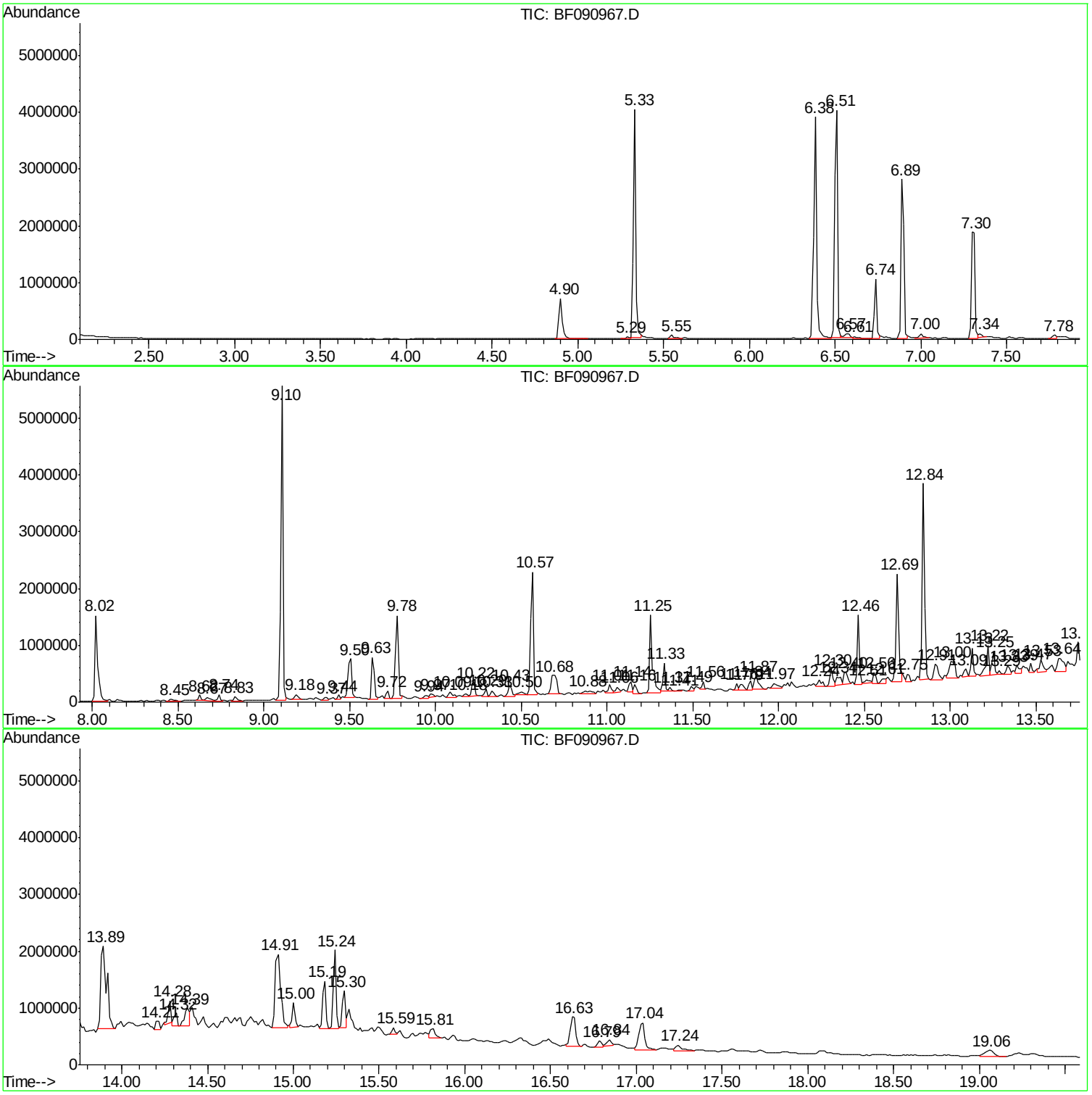
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

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 : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

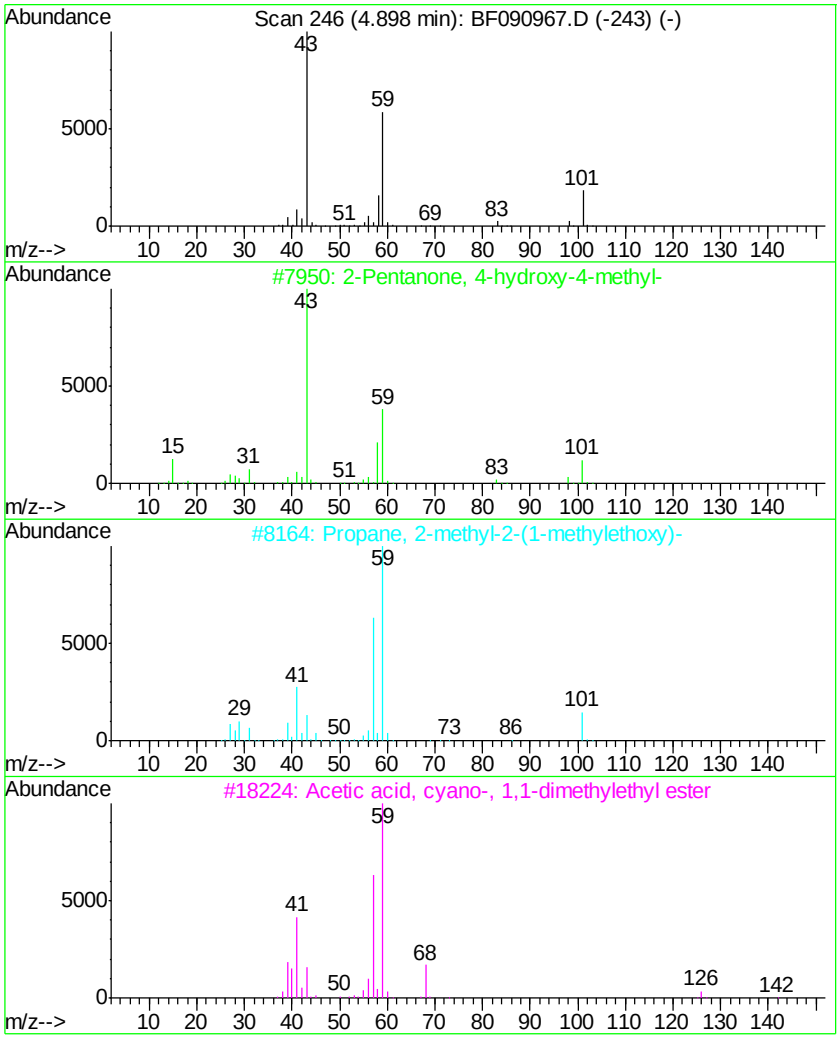
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

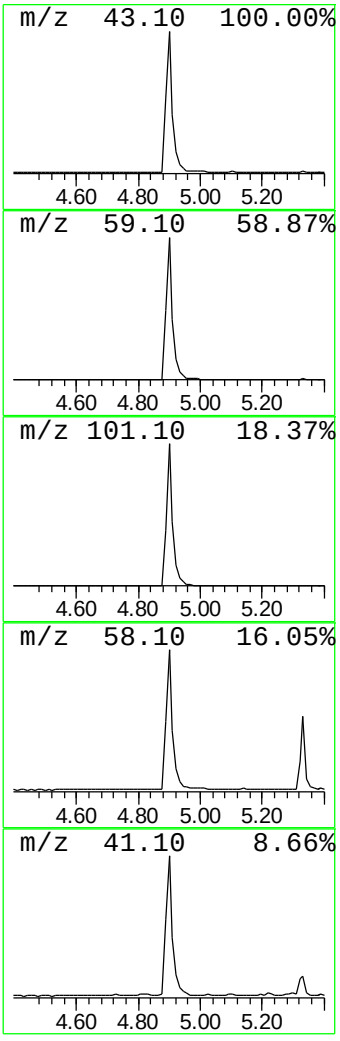
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.90	19.75 ng	1077570	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	59
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

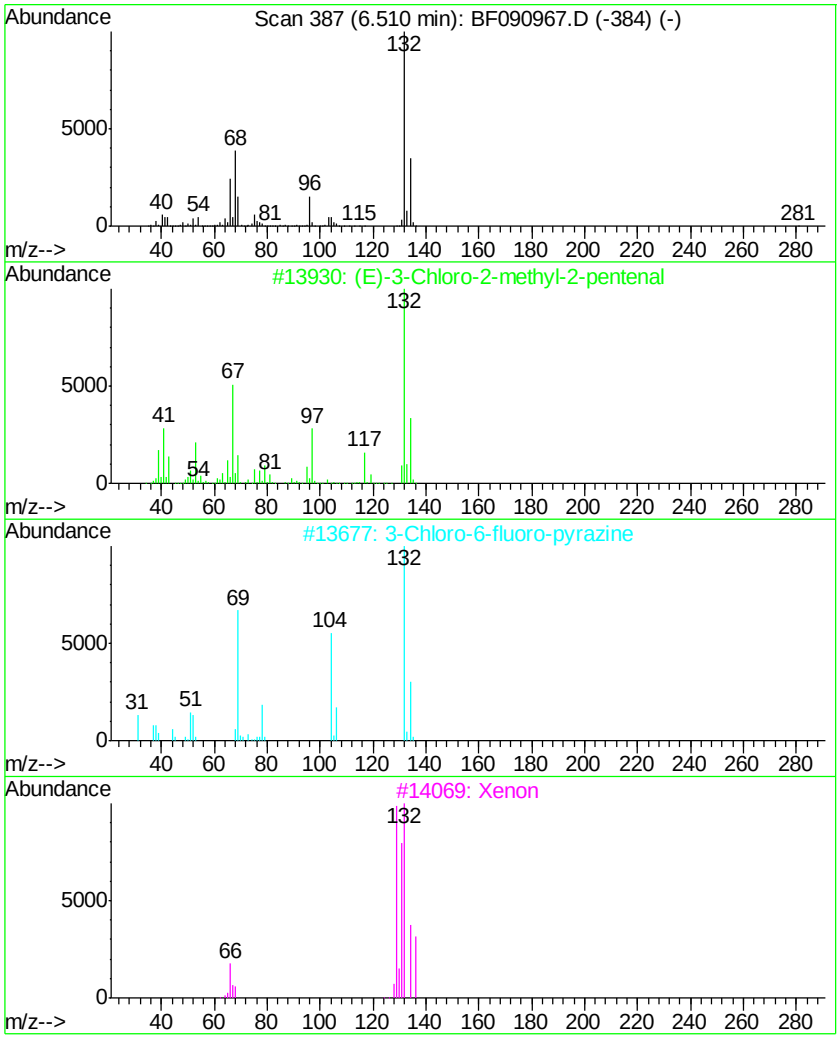
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

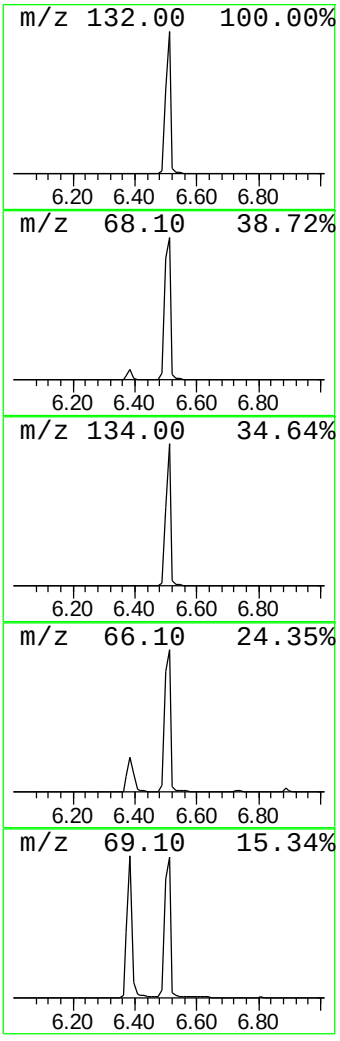
****

Peak Number 2 unknown6.51 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	90.01 ng	4910760	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	Xenon	132	Xe	007440-63-3	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

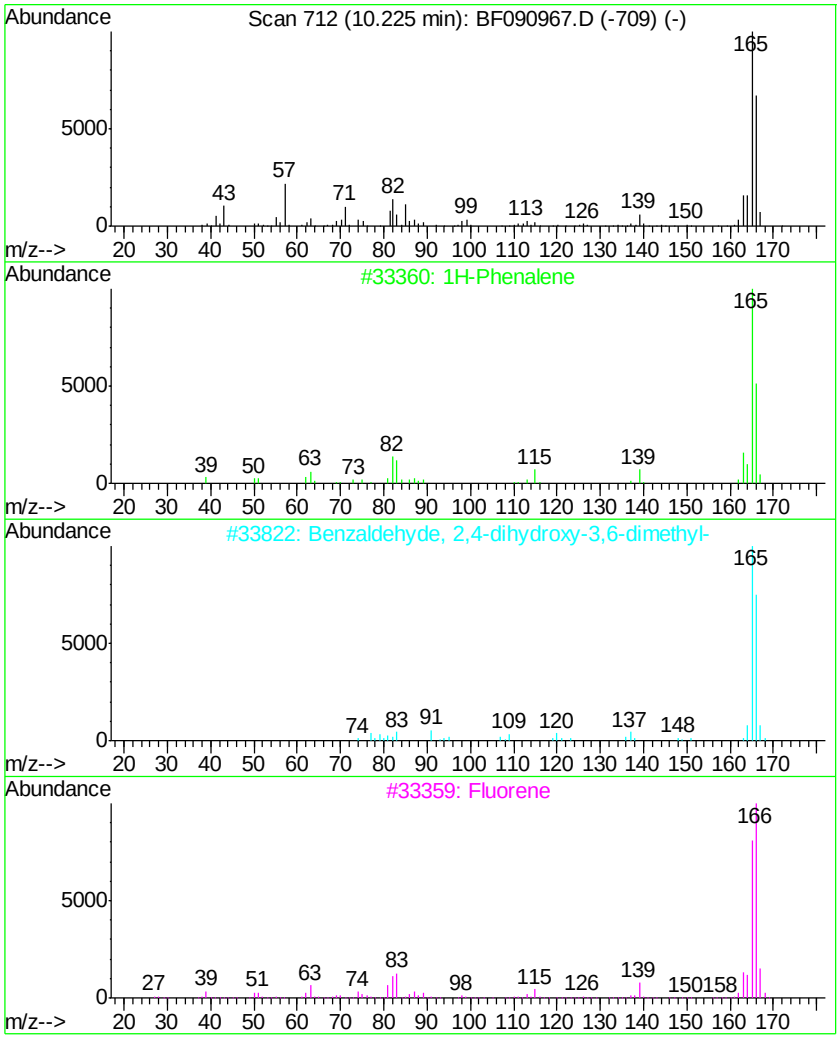
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

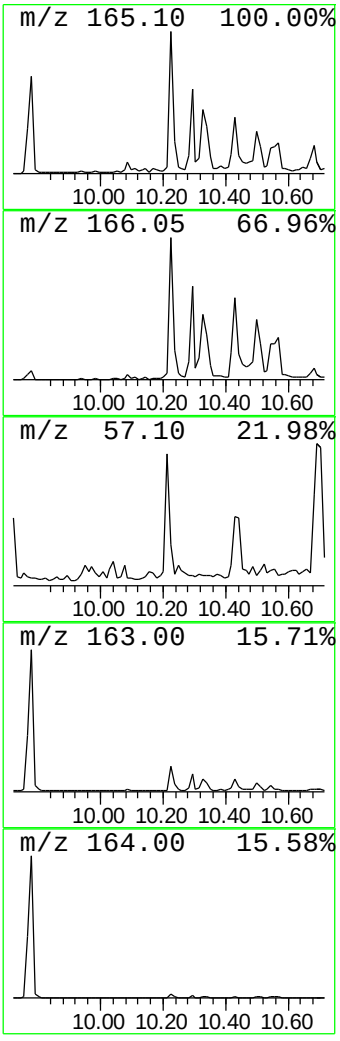
****

Peak Number 4 1H-Phenalene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	4.55 ng	374365	Acenaphthene-d10	9.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Phenalene	166	C13H10	000203-80-5	72
2	Benzaldehyde, 2,4-dihydroxy-3,6-...	166	C9H10O3	034883-14-2	64
3	Fluorene	166	C13H10	000086-73-7	38
4	1,3-Benzodioxole-5-carboxylic acid	166	C8H6O4	000094-53-1	38
5	1,4-Oxathiino[3,2-b]pyridine, 6-...	165	C8H7NOS	056114-39-7	37





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

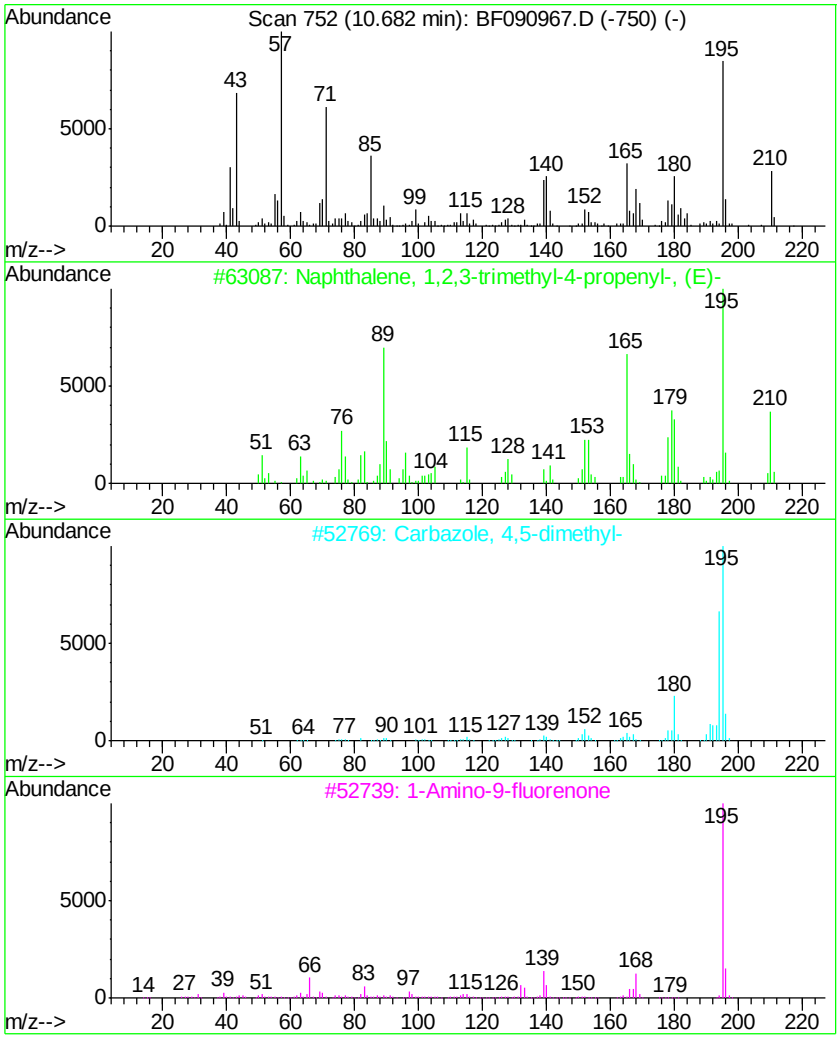
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

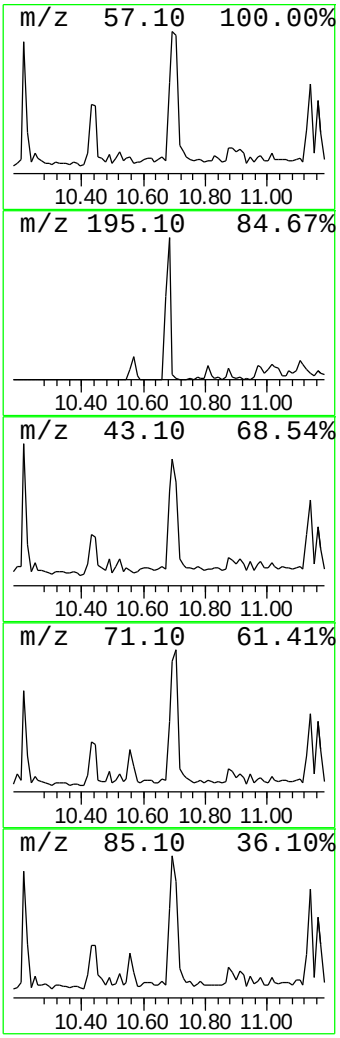
****

Peak Number 6 Naphthalene, 1,2,3-trimethy... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	8.19 ng	685592	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3-trimethyl-4-p...	210	C16H18	026137-53-1	70
2	Carbazole, 4,5-dimethyl-	195	C14H13N	018992-66-0	43
3	1-Amino-9-fluorenone	195	C13H9NO	006344-62-3	41
4	4-Cyano-4'-hydroxybiphenyl	195	C13H9NO	019812-93-2	38
5	5H-Dibenz[b,f]azepine, 10,11-dih...	195	C14H13N	000494-19-9	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

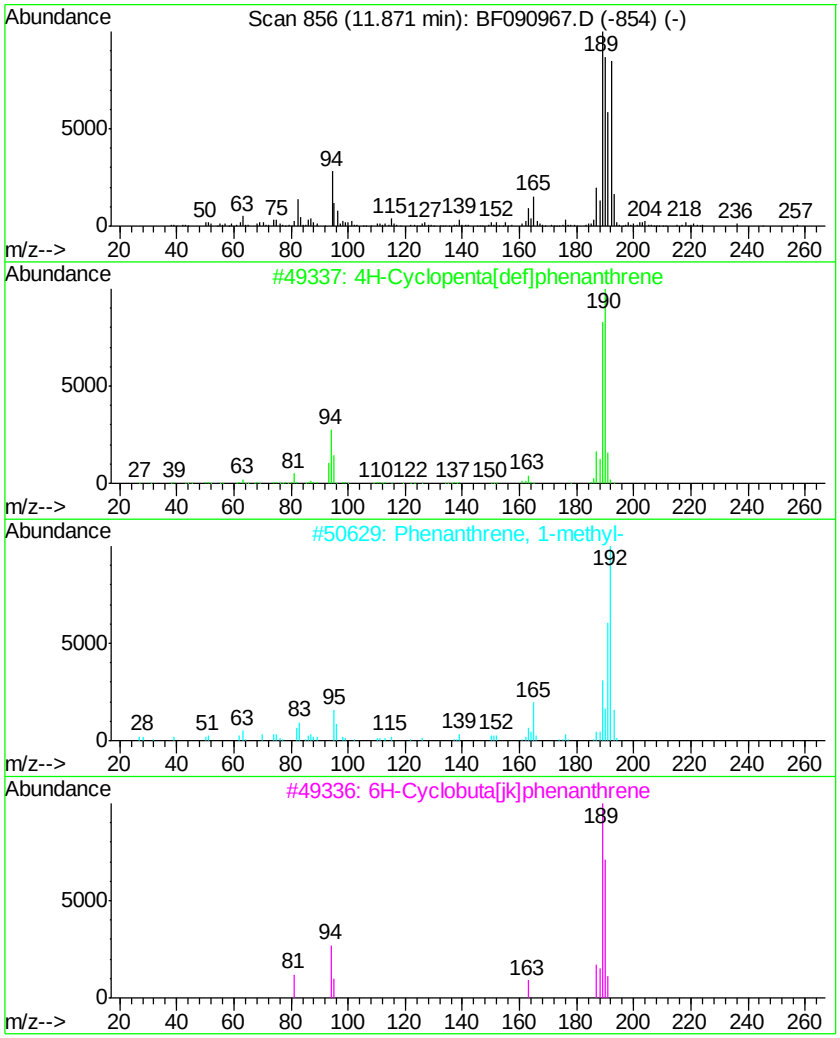
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

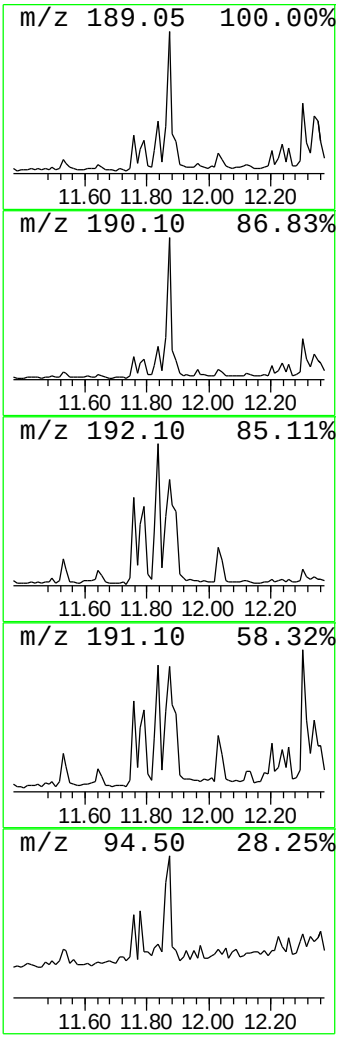
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	4.97 ng	416161	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	59
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	46
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

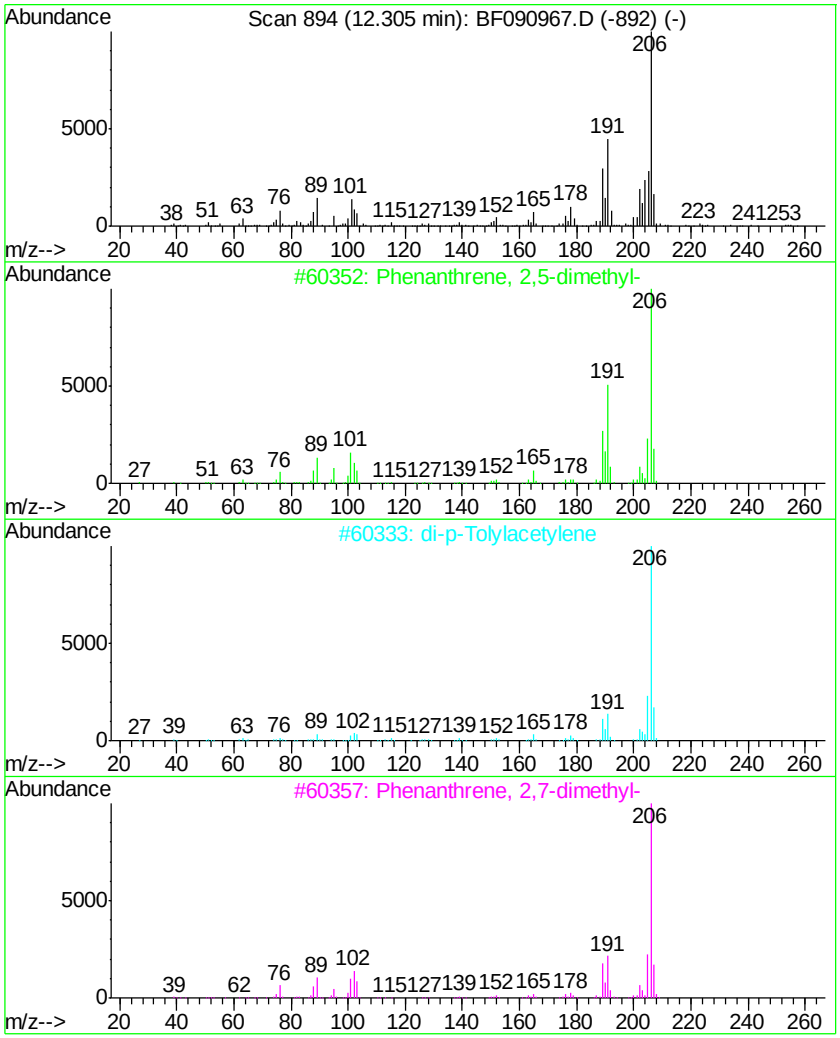
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

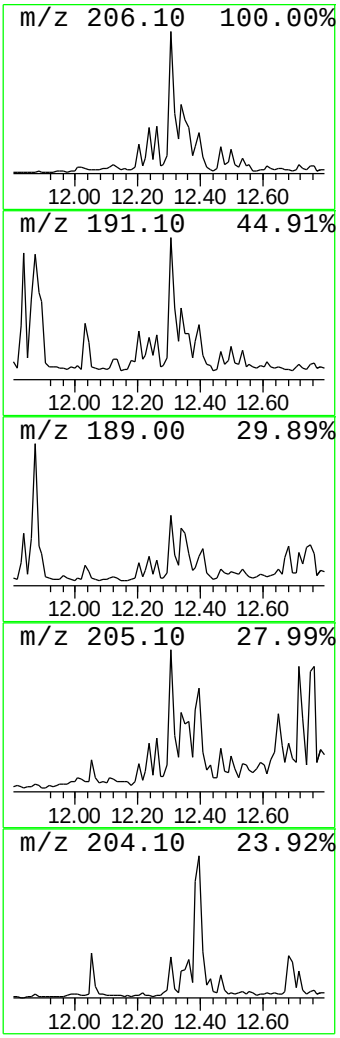
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	4.30 ng	359904	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

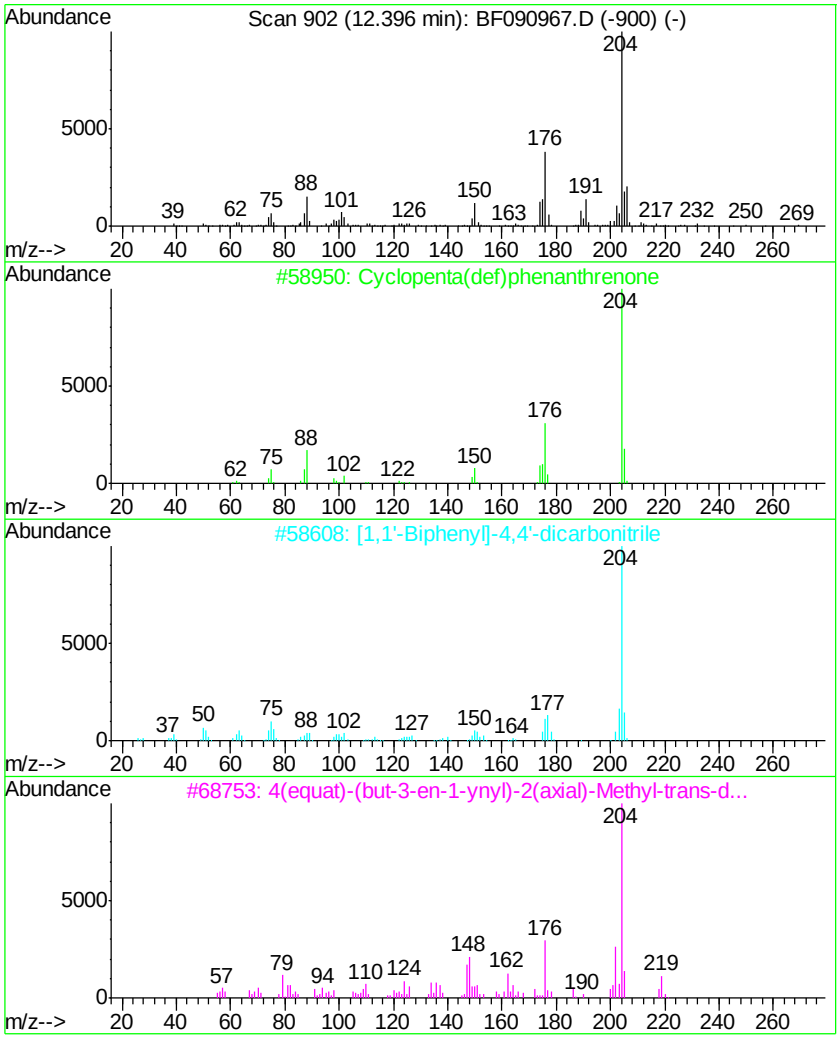
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

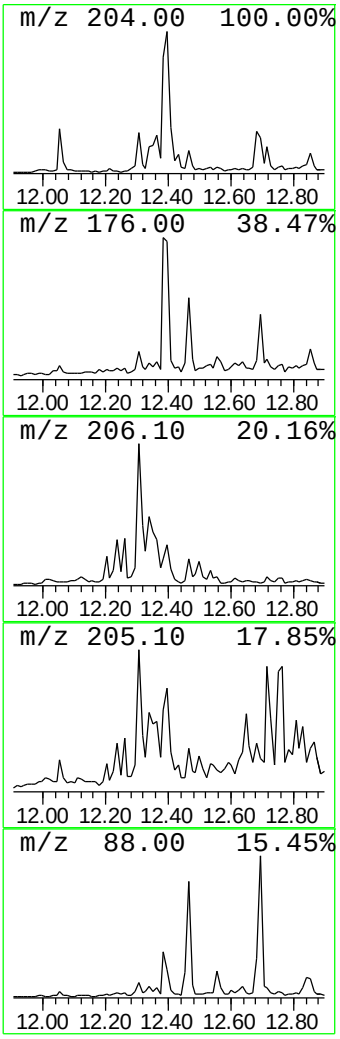
****

Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	3.95 ng	330405	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
3	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	40
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	38
5	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

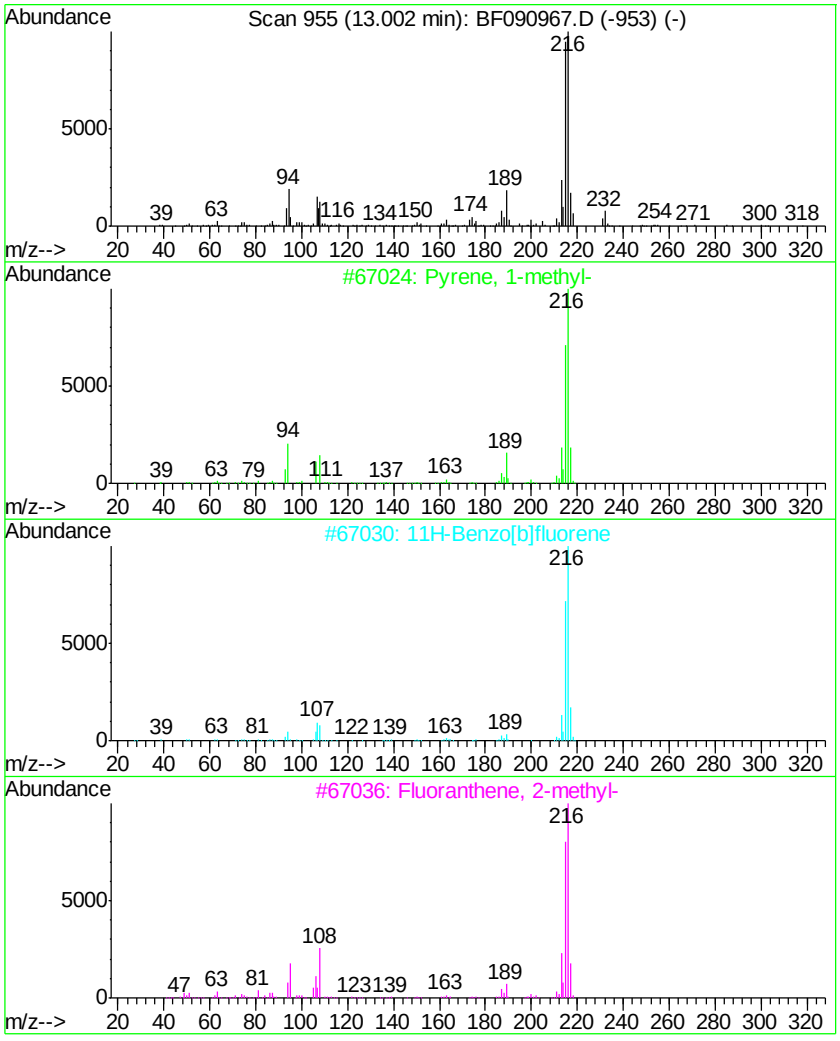
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

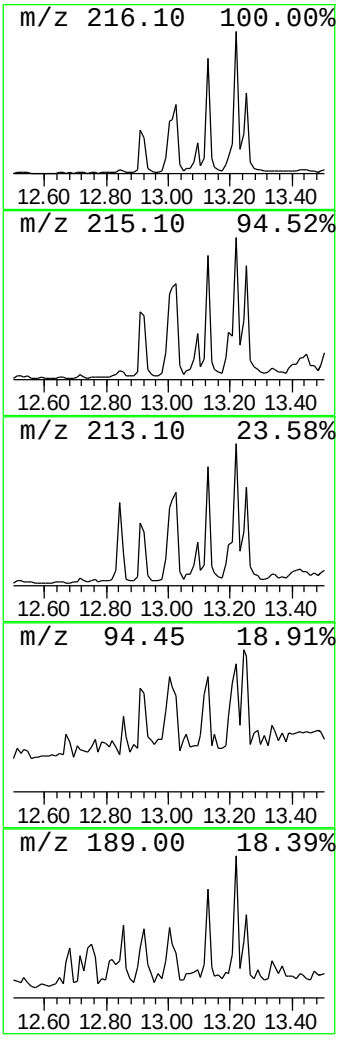
****

Peak Number 10 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	4.08 ng	676529	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	78





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

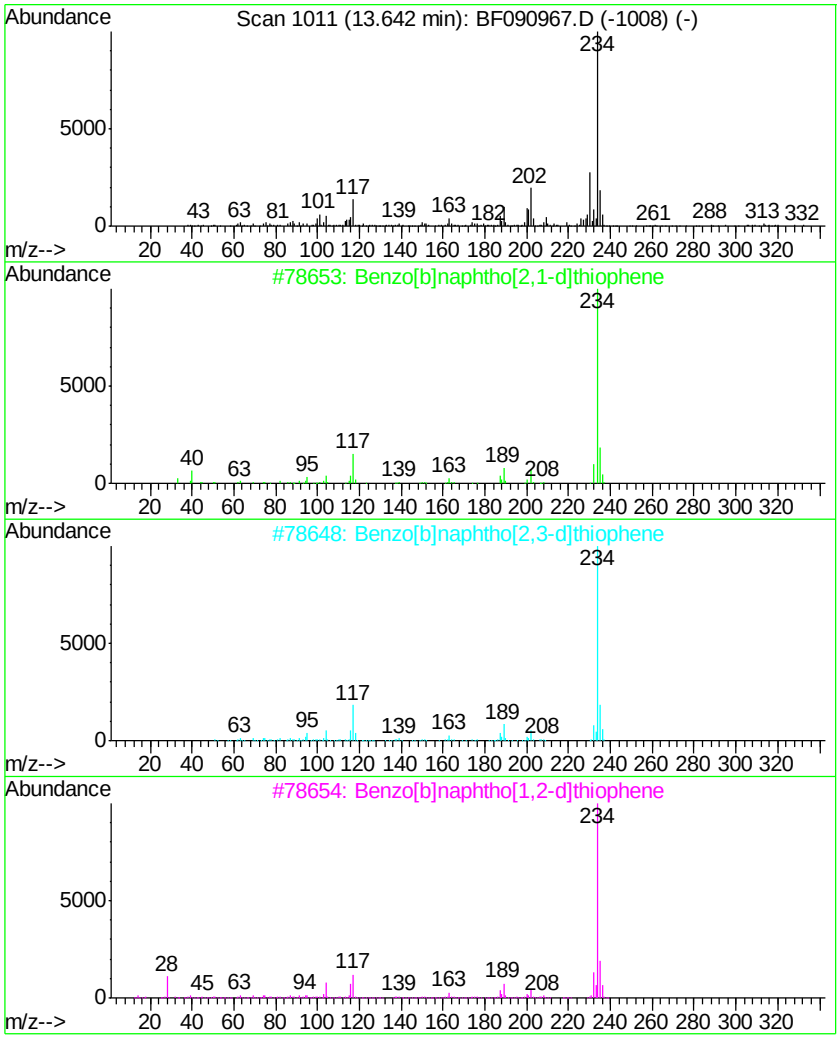
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

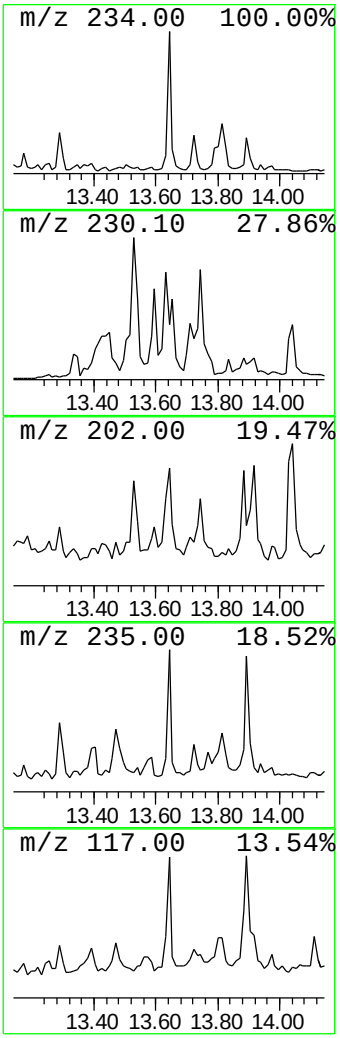
****

Peak Number 11 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.64	3.82 ng	633520	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	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	89
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	58
4	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	47
5	Quinoxaline, 2-(3,4-dimethylphen...	234	C16H14N2	1000266-28-1	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

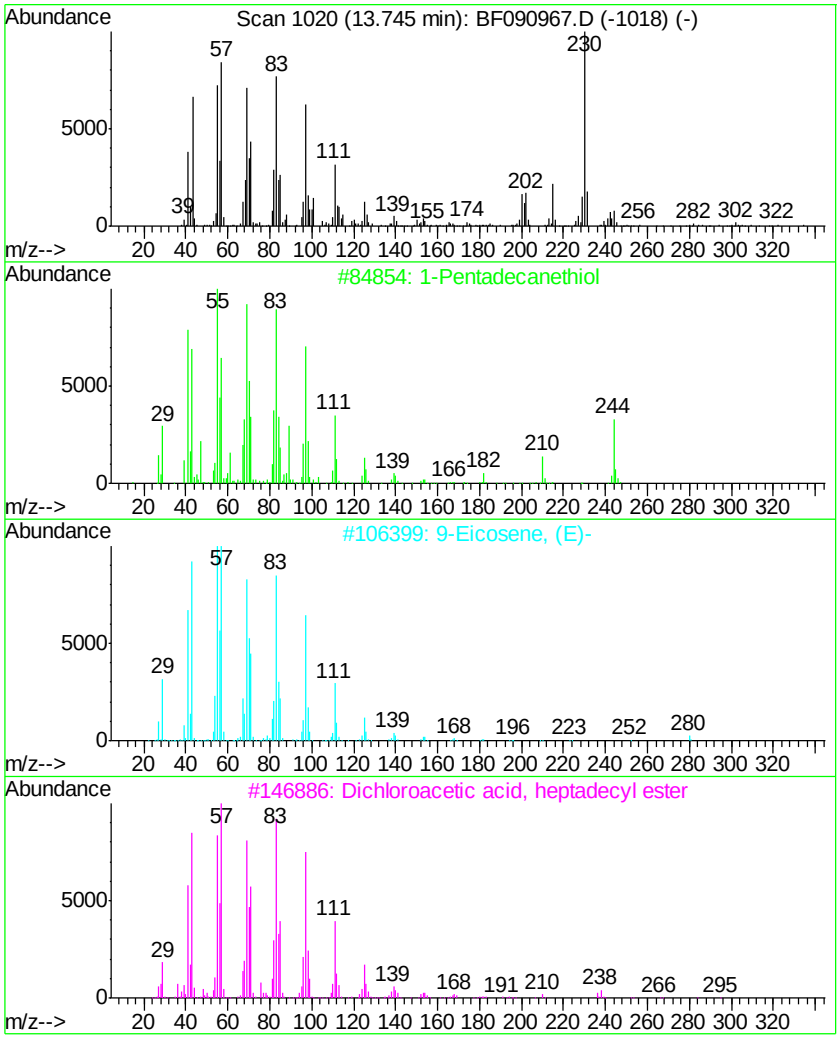
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

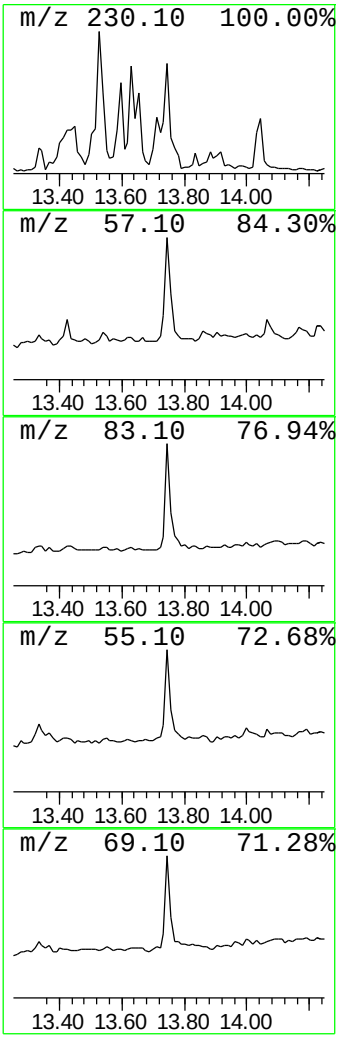
****

Peak Number 12 1-Pentadecanethiol Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	3.93 ng	650814	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentadecanethiol	244	C15H32S	025276-70-4	95
2	9-Eicosene, (E)-	280	C20H40	074685-29-3	89
3	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	83
4	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	64
5	1-Docosene	308	C22H44	001599-67-3	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

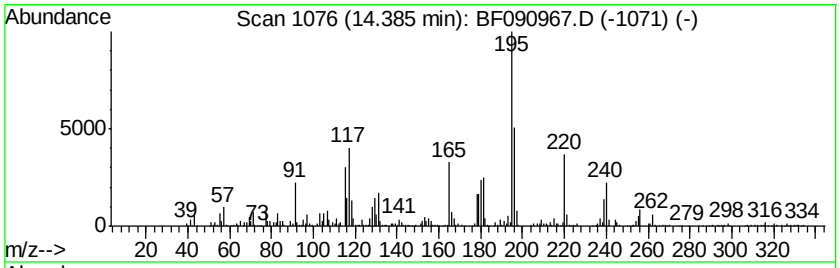
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

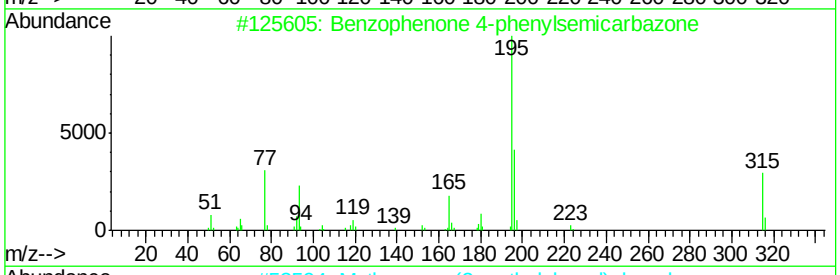
****

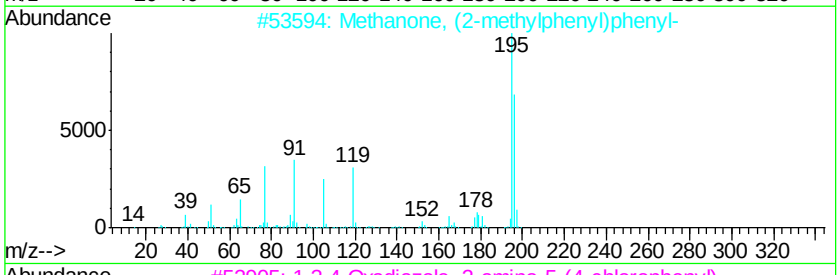
Peak Number 13 unknown14.39 Concentration Rank 16

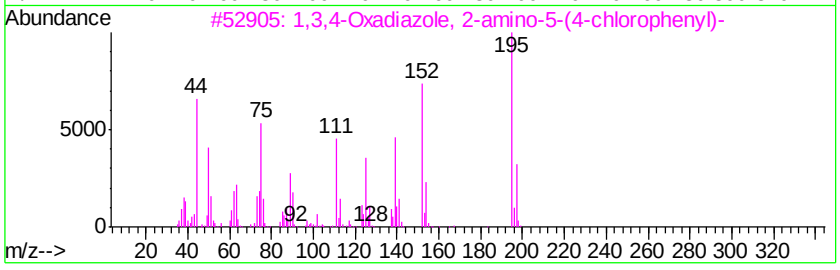
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	4.06 ng	673022	Chrysene-d12	13.89

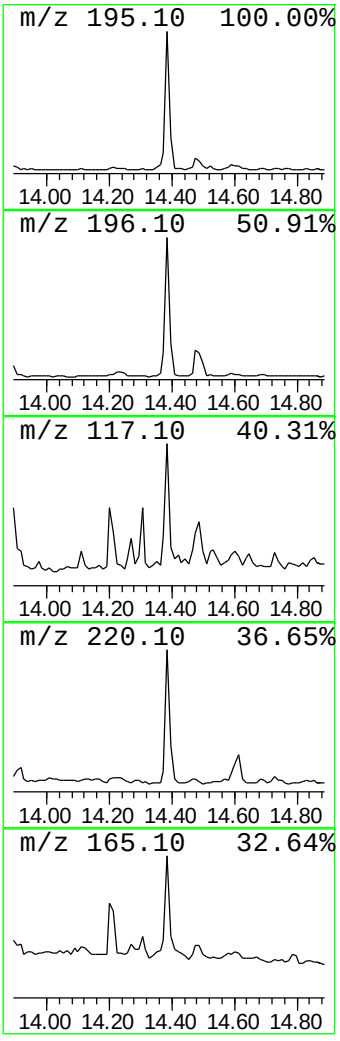
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone 4-phenylsemicarbazone	315	C20H17N3O	003043-79-6	38
2	Methanone, (2-methylphenyl)phenyl-	196	C14H12O	000131-58-8	25
3	1,3,4-Oxadiazole, 2-amino-5-(4-c...	195	C8H6ClN3O	033621-61-3	18
4	2-[1-[Pyrazinyllethylidene]hydra...	195	C7H9N5S	1000212-02-3	16
5	3-Methyl-2-azafluorenone	195	C13H9NO	018631-14-6	14











Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

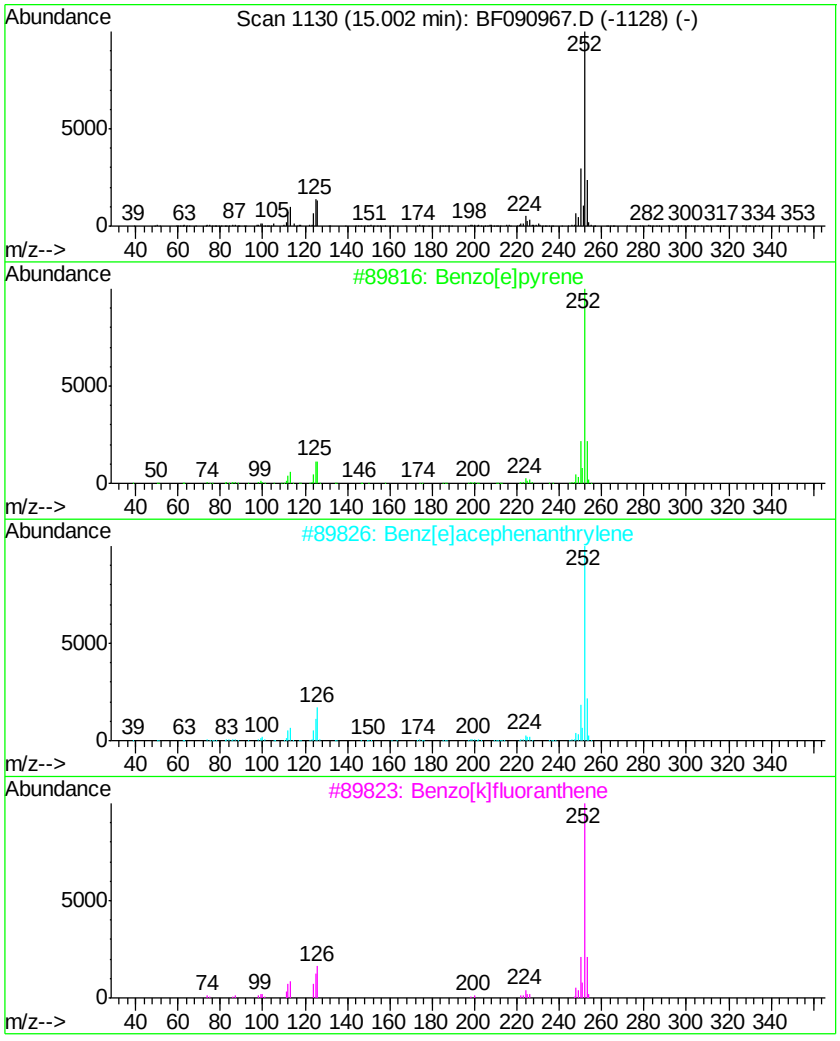
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

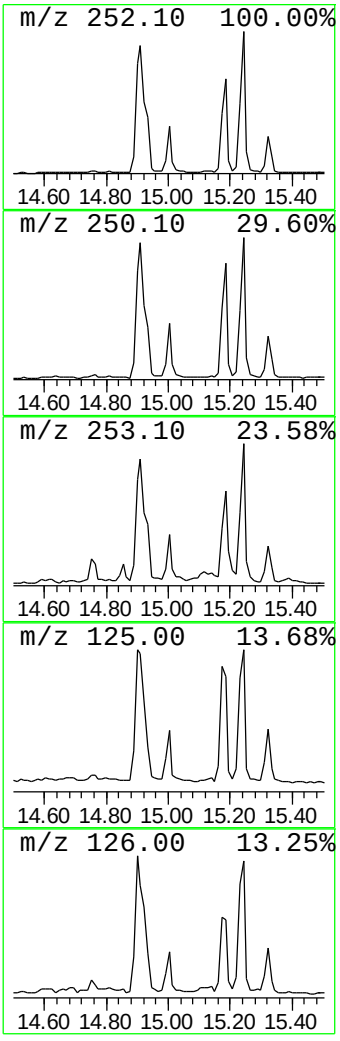
****

Peak Number 14 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	9.44 ng	431710	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	97
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

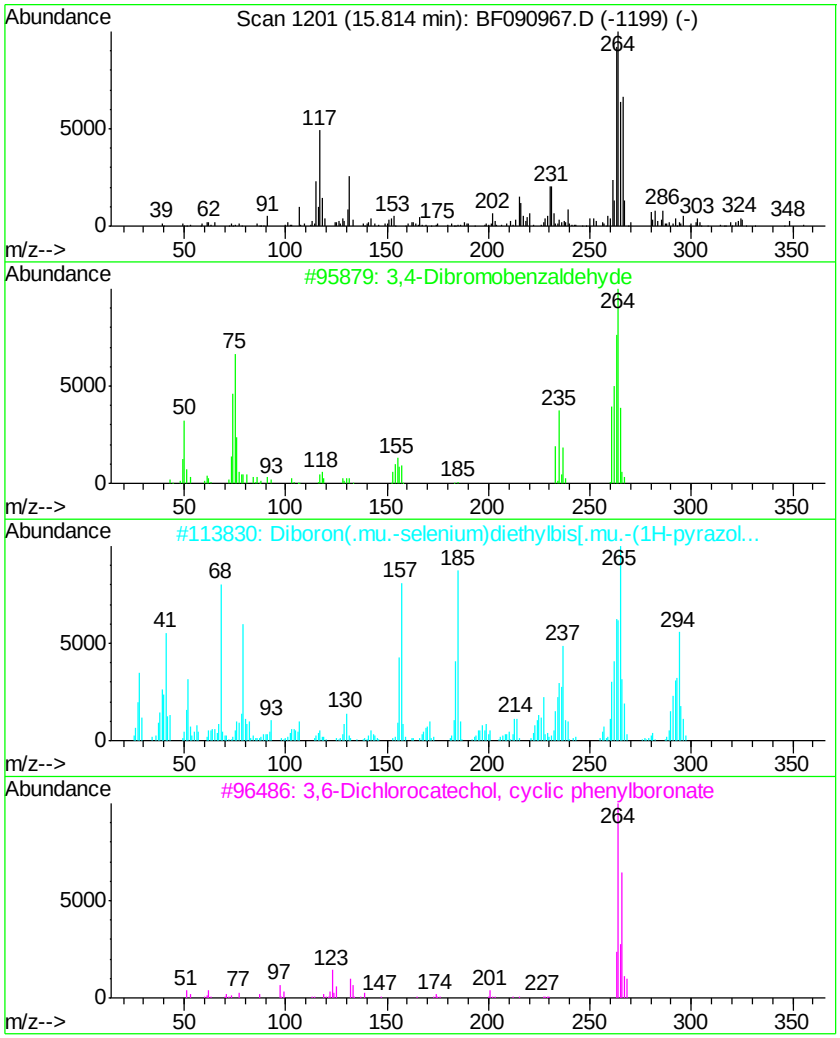
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

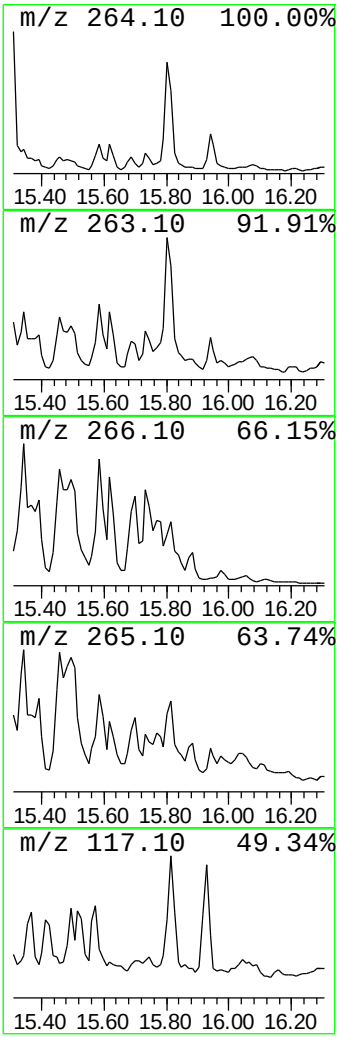
****

Peak Number 16 unknown15.81 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	6.77 ng	309587	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	38
2	Diboron(.mu.-selenium)diethylbis...	294	C10H16B2N4Se	1000159-49-7	35
3	3,6-Dichlorocatechol, cyclic phe...	264	C12H7BCl2O2	1000293-25-1	35
4	Naphthalen-2-ol, 1-(2-fluorophen...	265	C17H12FNO	073621-66-6	22
5	1,3-Dichlorophenazine 5-oxide	264	C12H6Cl2N2O	053601-82-4	22





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

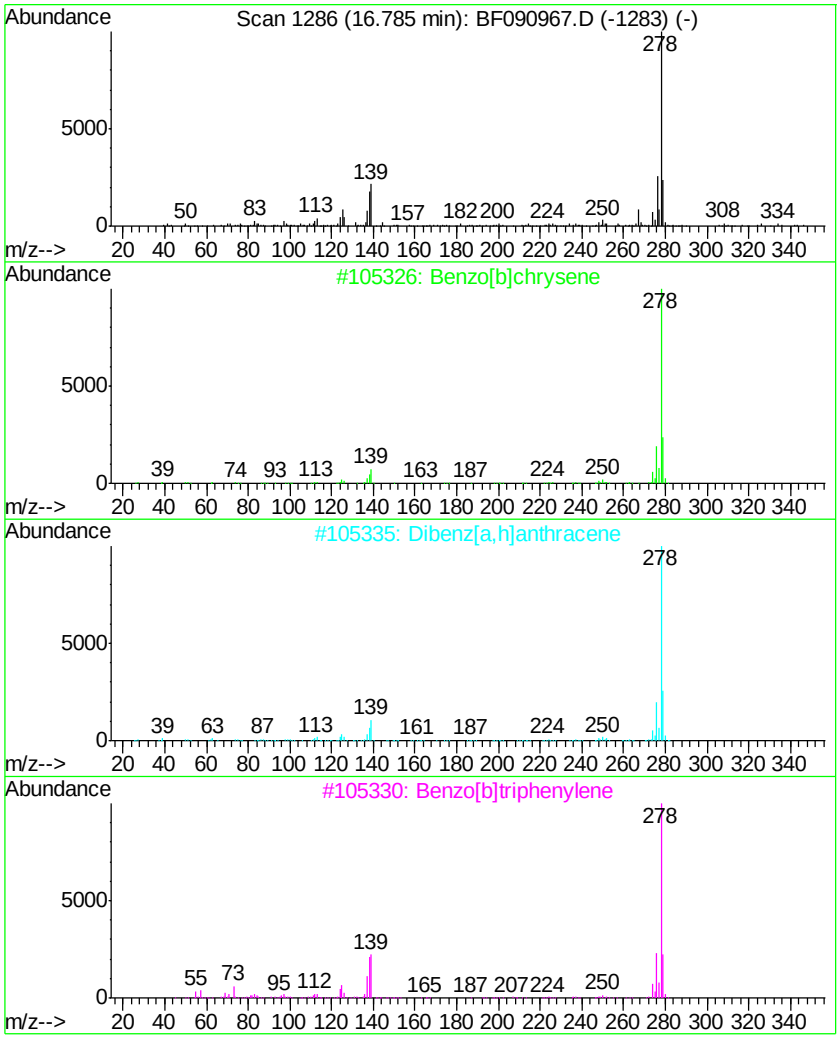
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

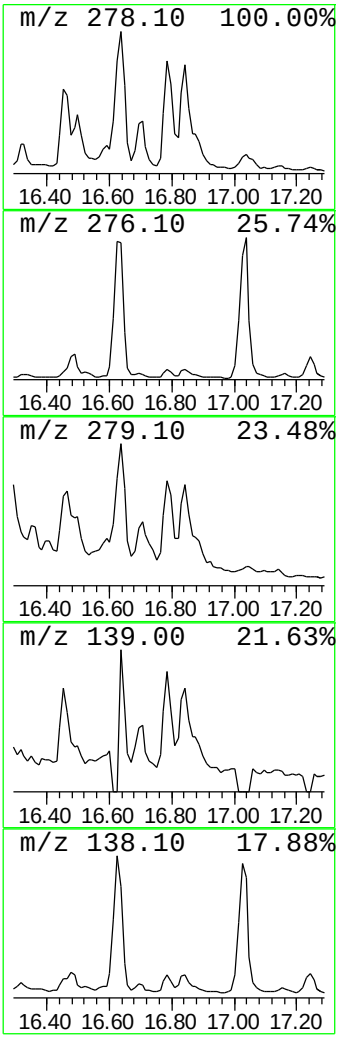
****

Peak Number 17 Benzo[b]chrysene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.79	5.01 ng	228947	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]chrysene	278	C22H14	000214-17-5	97
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	95
5	Pentaphene	278	C22H14	000222-93-5	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

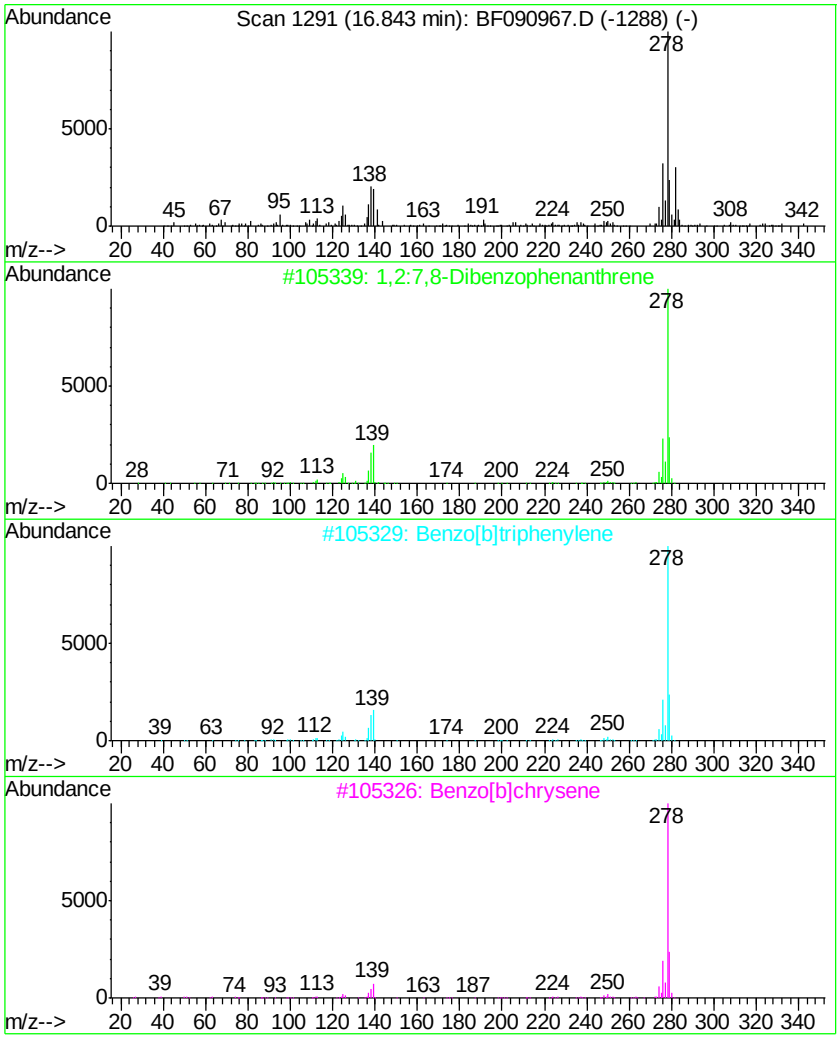
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

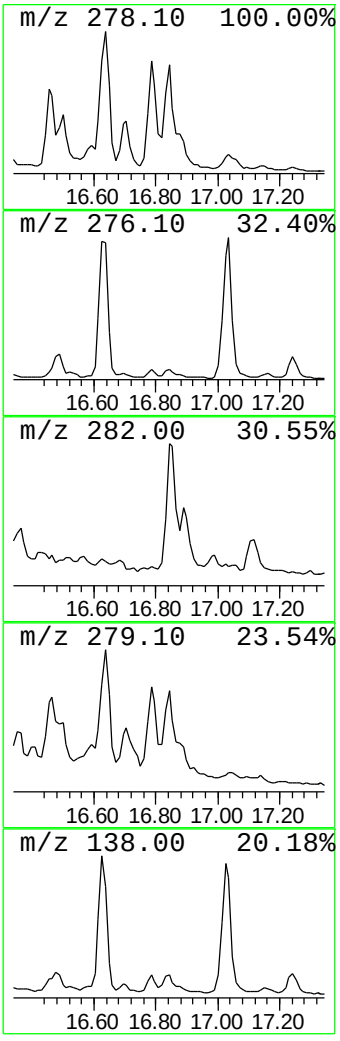
****

Peak Number 18 1,2:7,8-Dibenzophenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.84	4.07 ng	186069	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
3	Benzo[b]chrysene	278	C22H14	000214-17-5	93
4	Pentaphene	278	C22H14	000222-93-5	93
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

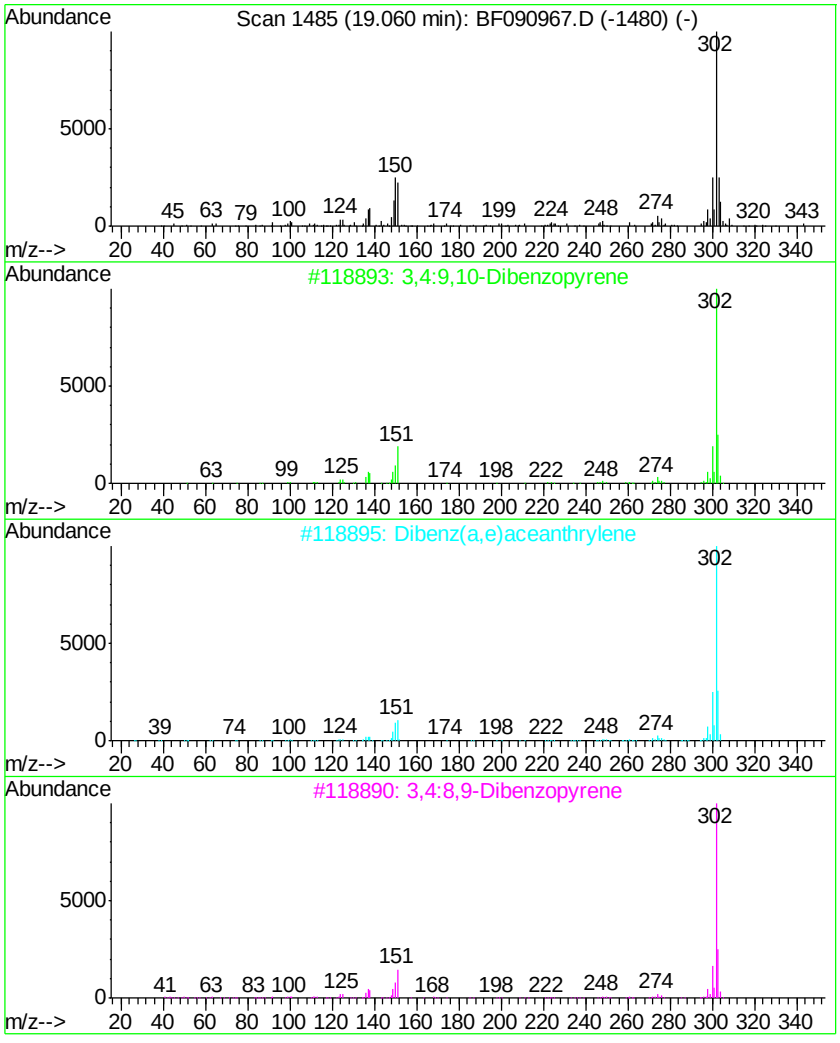
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

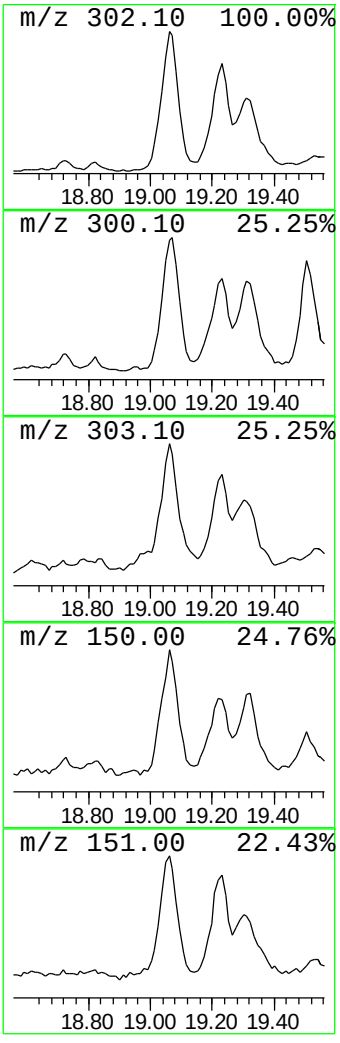
****

Peak Number 20 3,4:9,10-Dibenzopyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.06	9.10 ng	416342	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	96
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	95
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	94
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110116\
Data File : BF090967.D
Acq On : 1 Nov 2016 22:44
Operator : UM/SJ
Sample : H5463-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0-2)

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	19.8	ng	1077570	1	6.74	1091110	20.0
unknown6.51	6.51	90.0	ng	4910760	1	6.74	1091110	20.0
1H-Phenalene	10.22	4.5	ng	374365	3	9.78	1645970	20.0
Naphthalene, 1,2,...	10.68	8.2	ng	685592	4	11.25	1674780	20.0
4H-Cyclopenta[def...	11.87	5.0	ng	416161	4	11.25	1674780	20.0
Phenanthrene, 2,5...	12.30	4.3	ng	359904	4	11.25	1674780	20.0
Cyclopenta(def)ph...	12.40	4.0	ng	330405	4	11.25	1674780	20.0
Pyrene, 1-methyl-	13.00	4.1	ng	676529	5	13.89	3313820	20.0
Benzo[b]naphtho[2...	13.64	3.8	ng	633520	5	13.89	3313820	20.0
1-Pentadecanethiol	13.75	3.9	ng	650814	5	13.89	3313820	20.0
unknown14.39	14.39	4.1	ng	673022	5	13.89	3313820	20.0
Benzo[e]pyrene	15.00	9.4	ng	431710	6	15.30	914705	20.0
unknown15.81	15.81	6.8	ng	309587	6	15.30	914705	20.0
Benzo[b]chrysene	16.79	5.0	ng	228947	6	15.30	914705	20.0
1,2:7,8-Dibenzoph...	16.84	4.1	ng	186069	6	15.30	914705	20.0
3,4:9,10-Dibenzop...	19.06	9.1	ng	416342	6	15.30	914705	20.0