LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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	5.002	252	255	265	rBV	2502107	3543405	36.70%	2.713%
2	5.424	289	292	295	rBV	6874266	8082619	83.71%	6.187%
3	6.465	379	383	385	rBV	6345412	9654999	100.00%	7.391%
4	6.590	391	394	396	rVB	7134267	9172209	95.00%	7.022%
5	6.807	411	413	415	rVB	1485867	1728764	17.91%	1.323%
6	6.967	425	427	429	rBV	5872815	5920096	61.32%	4.532%
7	7.379	460	463	465	rVB	5118360	5405656	55.99%	4.138%
8	7.459	468	470	473	rBV4	131263	230955	2.39%	0.177%
9	7.619	483	484	486	rVB2	153783	163806	1.70%	0.125%
10	7.745	492	495	498	rVB3	154335	283464	2.94%	0.217%
11	8.099	523	526	527	rVV	2730286	2812310	29.13%	2.153%
12	8.145	529	530	532	rVV2	125902	155829	1.61%	0.119%
13	8.305	539	544	546	rBV5	142416	386312	4.00%	0.296%
14	8.385	549	551	553	rVB2	121334	182568	1.89%	0.140%
15	8.533	562	564	566	rBV2	227944	353033	3.66%	0.270%
16	8.602	568	570	572	rBV3	96689	153967	1.59%	0.118%
17	8.762	577	584	585	rBV6	115006	348780	3.61%	0.267%
18	8.808	585	588	590	rVB2	522585	609865	6.32%	0.467%
19	8.911	594	597	599	rVV2	628992	715603	7.41%	0.548%
20	9.013	602	606	607	rBV4	65320	165170	1.71%	0.126%
21	9.128	614	616	618	rBV3	261688	335572	3.48%	0.257%
22	9.173	618	620	623	rVV	6629328	7318820	75.80%	5.603%
23	9.276	625	629	630	rVB2	230819	342792	3.55%	0.262%
24	9.322	630	633	634	rBV2	171998	217564	2.25%	0.167%
25	9.436	640	643	645	rBV	322130	442272	4.58%	0.339%
26	9.505	645	649	651	rBV	494123	795603	8.24%	0.609%
27	9.539	651	652	653	rVV	324800	246640	2.55%	0.189%
28	9.573	653	655	657	rVV	972953	1115752	11.56%	0.854%
29	9.631	657	660	662	rVB2	260456	501131	5.19%	0.384%
30	9.711	664	667	669	rVB	1101953	918392	9.51%	0.703%
31	9.848	676	679	681	rBV	2886753	2794063	28.94%	2.139%
32	9.882	681	682	686	rVB2	550822	561567	5.82%	0.430%
33	9.962	686	689	691	rBV	99787	150235	1.56%	0.115%
34	10.053	694	697	699	rBV	1247773	1124950	11.65%	0.861%

LSC Area Percent Report

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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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	10.088	699	700	704	rVB2	195501	241721	2.50%	0.185%
36	10.168	704	707	708	rBV	319725	354855	3.68%	0.272%
37	10.259	712	715	717	rBV	194634	379698	3.93%	0.291%
38	10.293	717	718	720	rVB2	178026	152974	1.58%	0.117%
39	10.362	720	724	725	rBV4	66752	160448	1.66%	0.123%
40	10.396	725	727	729	rBV	1888269	1735387	17.97%	1.328%
41	10.556	739	741	743	rVB	348477	375329	3.89%	0.287%
42	10.636	745	748	750	rBV	5022560	5394087	55.87%	4.129%
43	10.762	755	759	762	rVB2	408951	525646	5.44%	0.402%
44	10.945	771	775	776	rBV	307351	448714	4.65%	0.344%
45	11.128	790	791	794	rVB2	106391	157767	1.63%	0.121%
46	11.185	794	796	797	rBV	188432	240073	2.49%	0.184%
47	11.231	797	800	802	rVB2	394870	768931	7.96%	0.589%
48	11.334	806	809	810	rBV	2347286	3144001	32.56%	2.407%
49	11.356	810	811	813	rVB	6292044	5138785	53.22%	3.934%
50	11.402	813	815	817	rVB	1144671	1110835	11.51%	0.850%
51	11.436	817	818	821	rBV2	207910	232897	2.41%	0.178%
52	11.562	826	829	830	rBV2	534818	580923	6.02%	0.445%
53	11.585	830	831	833	rBV2	127592	164521	1.70%	0.126%
54	11.631	833	835	837	rBV2	360424	307462	3.18%	0.235%
55	11.734	842	844	845	rBV	183814	224384	2.32%	0.172%
56	11.768	845	847	851	rBV4	93292	198395	2.05%	0.152%
57	11.836	851	853	854	rBV	445362	647168	6.70%	0.495%
58	11.859	854	855	858	rVB2	968214	1047687	10.85%	0.802%
59	11.905	858	859	861	rBV	387754	558255	5.78%	0.427%
60	11.939	861	862	865	rVV3	1074842	1585600	16.42%	1.214%
61	12.019	867	869	873	rVV5	445754	860023	8.91%	0.658%
62	12.077	873	874	877	rVB3	402914	528069	5.47%	0.404%
63	12.145	877	880	881	rBV2	422590	798243	8.27%	0.611%
64	12.191	881	884	886	rVB2	480603	695640	7.20%	0.533%
65	12.282	889	892	895	rBV4	219610	557043	5.77%	0.426%
66	12.328	895	896	898	rBV2	237033	241255	2.50%	0.185%
67	12.385	900	901	903	rBV2	201359	165569	1.71%	0.127%
68	12.545	913	915	917	rBV	5042772	4568415	47.32%	3.497%
69	12.579	917	918	921	rVB3	102627	189399	1.96%	0.145%
70	12.637	921	923	927	rBV2	489825	962703	9.97%	0.737%
71	12.774	932	935	937	rVV	3647296	4568372	47.32%	3.497%

LSC Area Percent Report

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Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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	12.819	937	939	943	rVB3	197009	279977	2.90%	0.214%
73	12.888	943	945	946	rBV	297748	419828	4.35%	0.321%
74	12.922	946	948	950	rVV	4408901	5338317	55.29%	4.087%
75	12.991	950	954	955	rVB2	203043	274900	2.85%	0.210%
76	13.094	961	963	965	rVB	608630	619044	6.41%	0.474%
77	13.162	967	969	970	rVV	732878	633407	6.56%	0.485%
78	13.197	970	972	974	rVV	407156	462497	4.79%	0.354%
79	13.288	978	980	982	rVV	207447	241187	2.50%	0.185%
80	13.322	982	983	987	rVB2	202980	209897	2.17%	0.161%
81	13.494	996	998	1002	rVB5	157169	282449	2.93%	0.216%
82	13.711	1015	1017	1018	rBV2	210635	266028	2.76%	0.204%
83	13.745	1018	1020	1024	rVV3	227598	637872	6.61%	0.488%
84	13.814	1024	1026	1029	rVB2	281296	377793	3.91%	0.289%
85	13.962	1036	1039	1040	rBV2	2153699	3139988	32.52%	2.404%
86	14.065	1046	1048	1050	rBV	297343	286493	2.97%	0.219%
87	14.191	1057	1059	1060	rVB	129939	155950	1.62%	0.119%
88	14.351	1071	1073	1074	rVB	163949	206371	2.14%	0.158%
89	14.820	1112	1114	1118	rVB2	95137	185627	1.92%	0.142%
90	14.980	1125	1128	1132	rBV	1114759	2405432	24.91%	1.841%
91	15.071	1134	1136	1139	rVB	235340	293962	3.04%	0.225%
92	15.254	1150	1152	1155	rVB	609365	907436	9.40%	0.695%
93	15.323	1155	1158	1160	rVB	896974	1331531	13.79%	1.019%
94	15.380	1160	1163	1164	rBV	1239620	1596640	16.54%	1.222%
95	16.591	1264	1269	1274	rBV3	94041	299310	3.10%	0.229%
96	16.740	1279	1282	1286	rVB2	532593	974072	10.09%	0.746%
97	17.151	1314	1318	1326	rVB	427019	905253	9.38%	0.693%
98	17.368	1334	1337	1344	rVB	147637	321709	3.33%	0.246%
99	19.232	1495	1500	1509	rVB2	92246	423786	4.39%	0.324%
100	19.403	1511	1515	1519	rBV2	59863	205787	2.13%	0.158%

Sum of corrected areas: 130628580

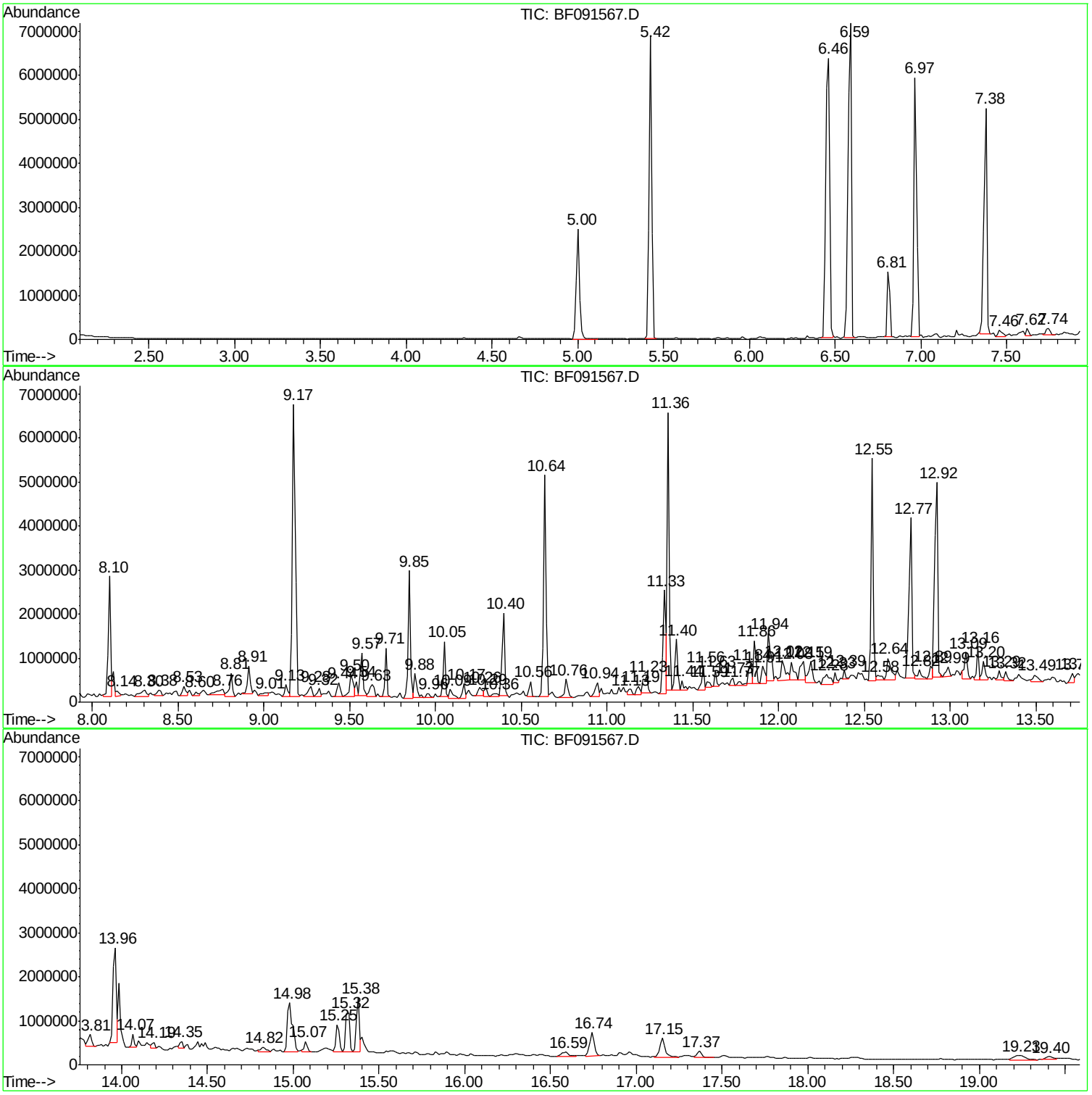
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-46(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 : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

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

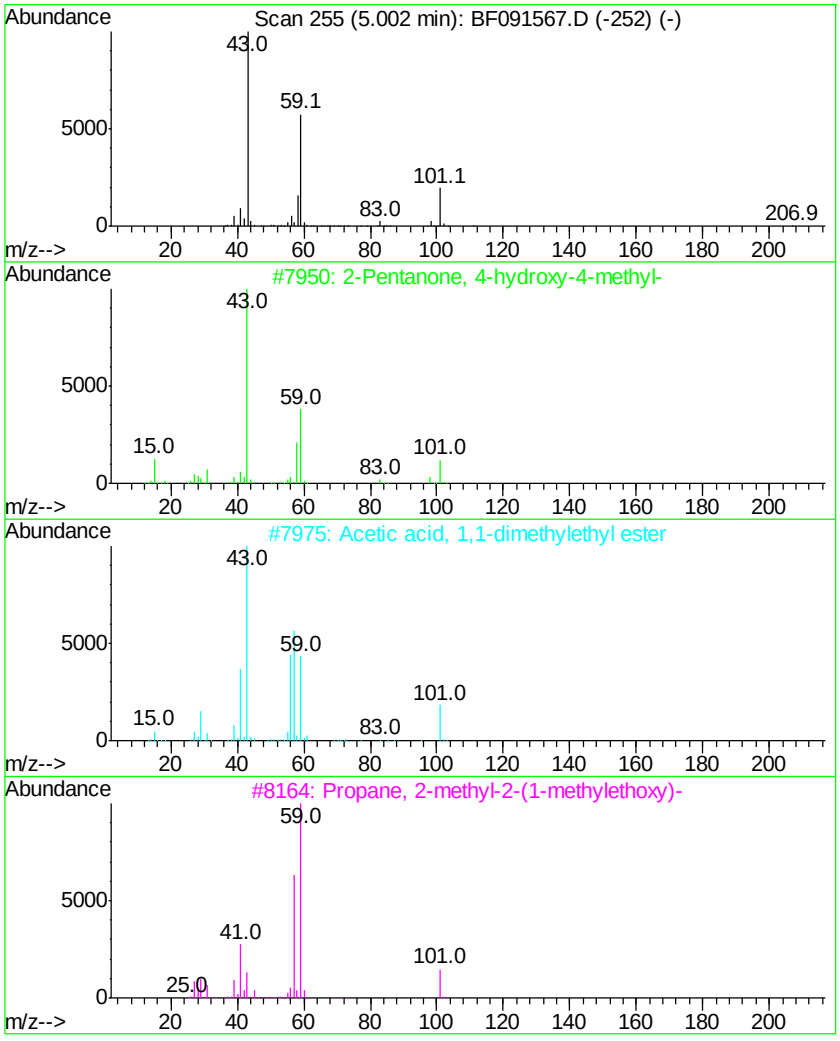
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

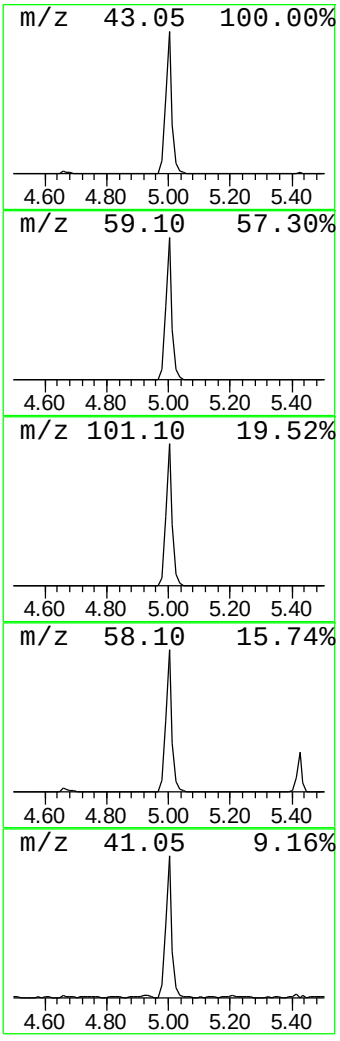
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	40.99 ng	3543410	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
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	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
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Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

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

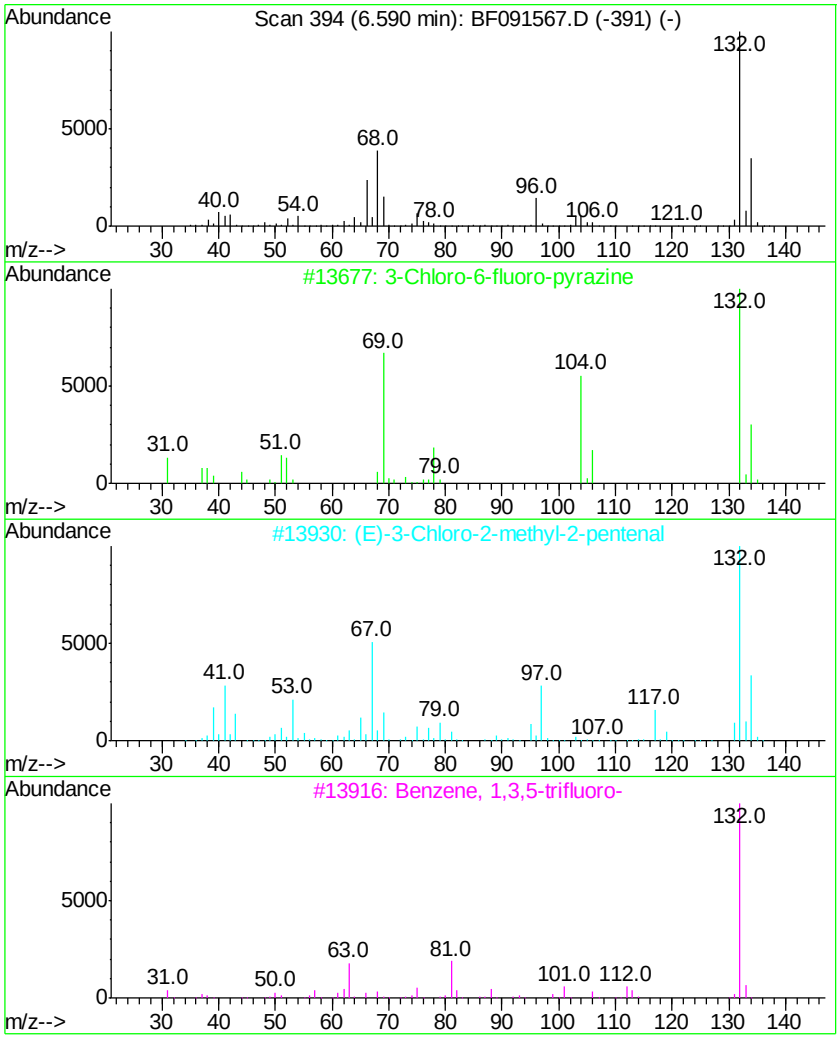
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

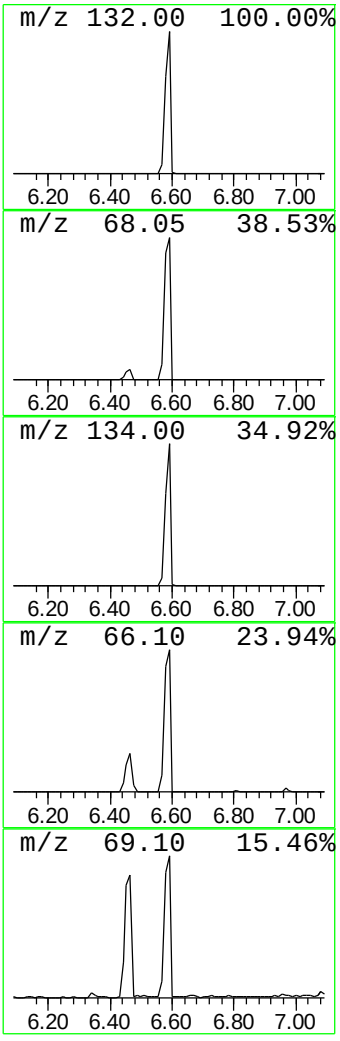
****

Peak Number 2 unknown6.59 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	106.11 ng	9172210	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	Xenon	132	Xe	007440-63-3	9





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Operator : UM/SJ
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Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

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

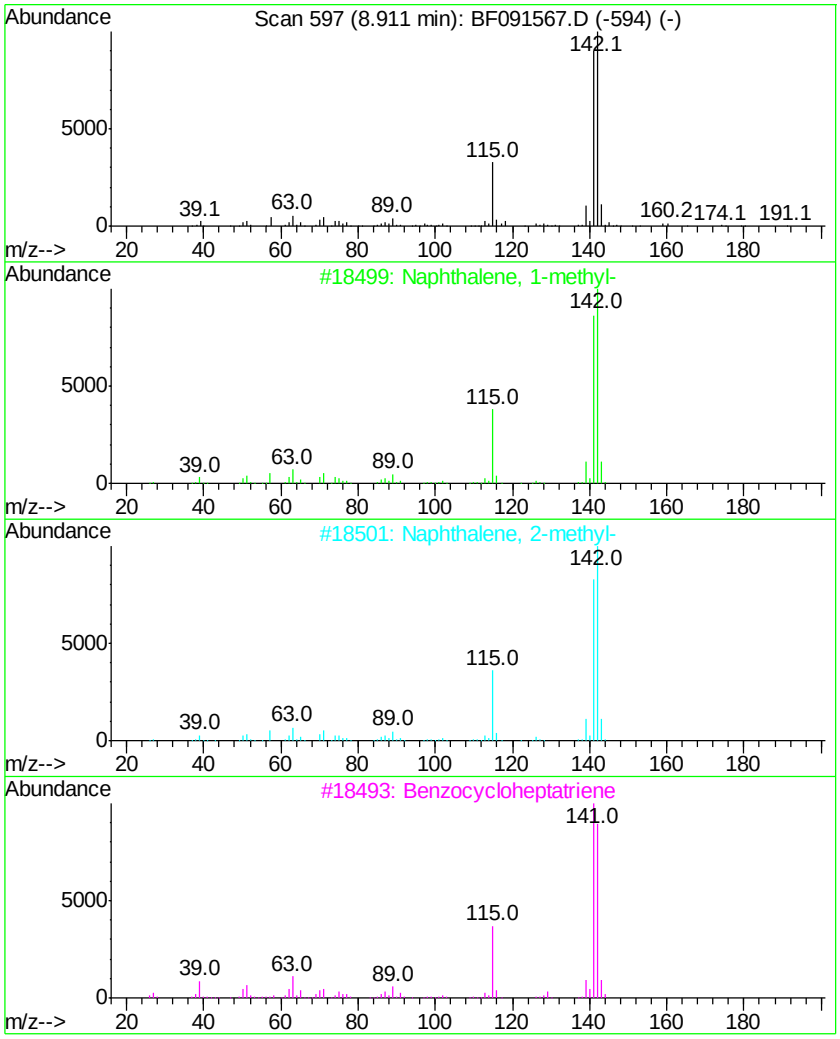
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

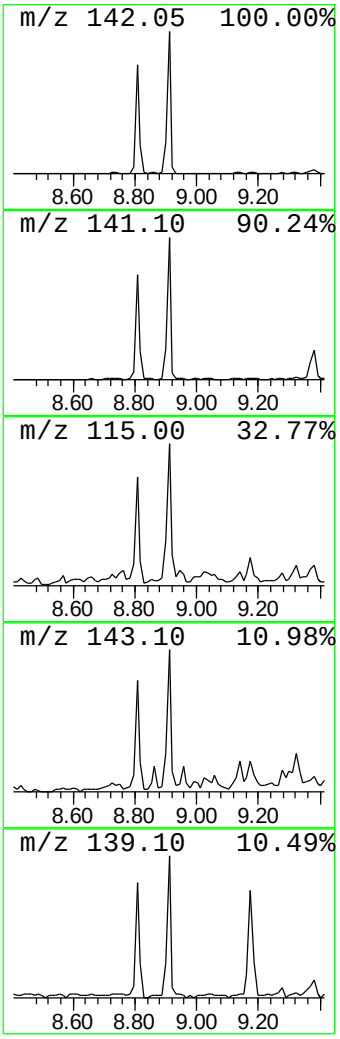
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.91	5.09 ng	715603	Naphthalene-d8	8.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	59





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

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

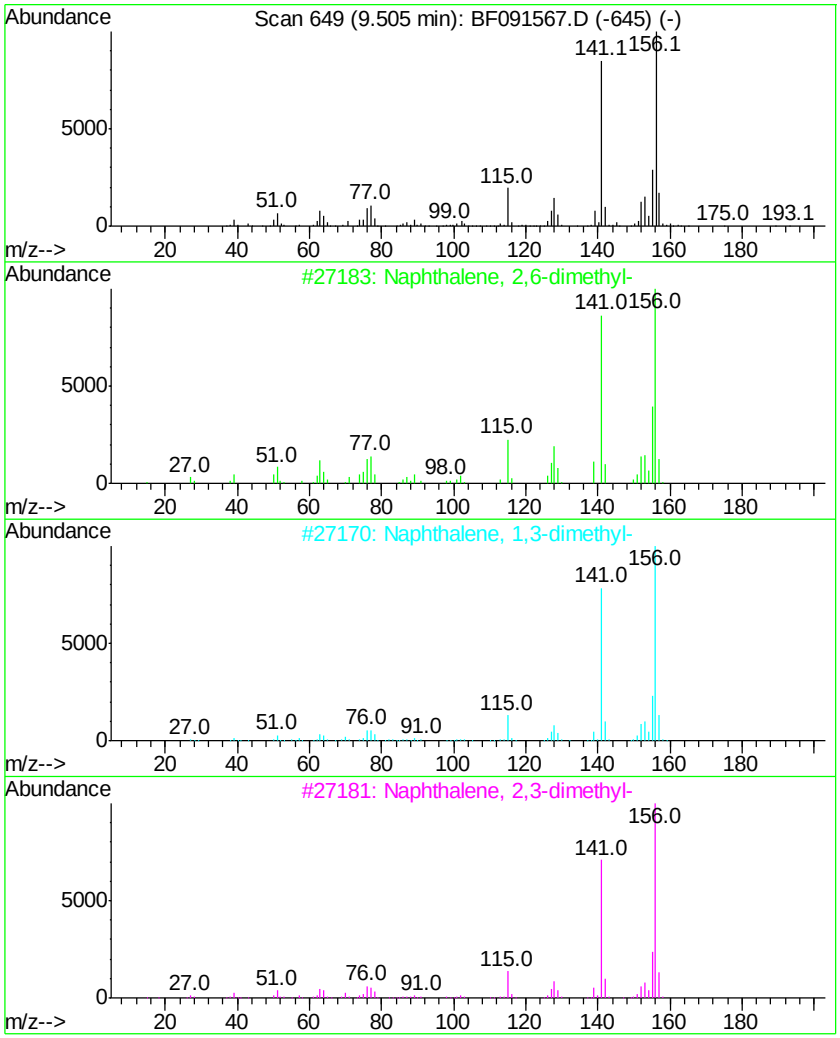
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

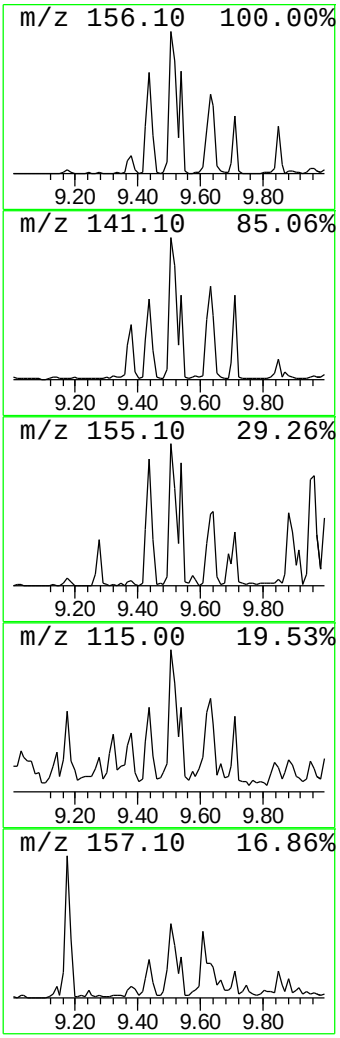
****

Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	5.69 ng	795603	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

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

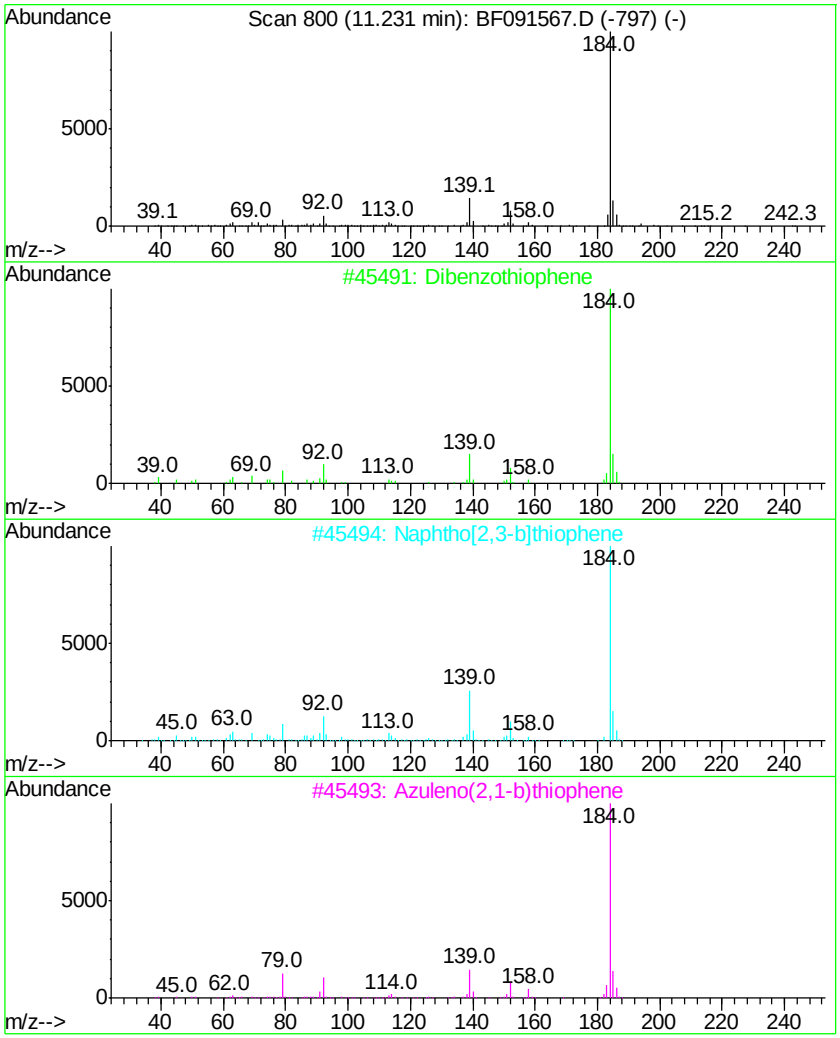
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

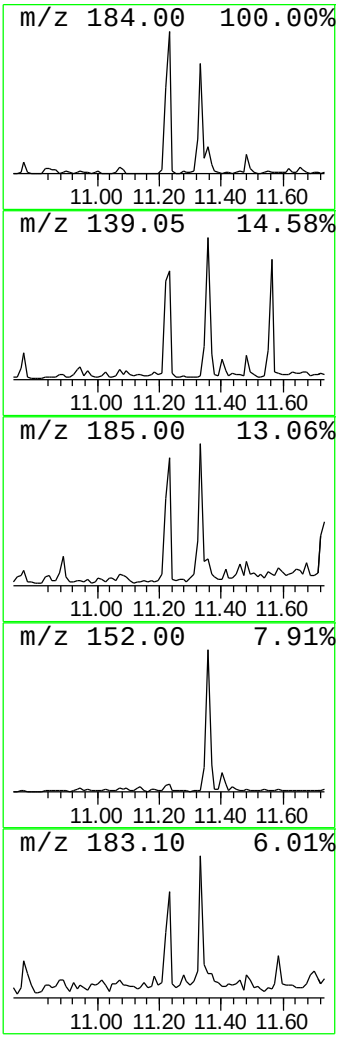
****

Peak Number 6 Dibenzothiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	4.89 ng	768931	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72





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Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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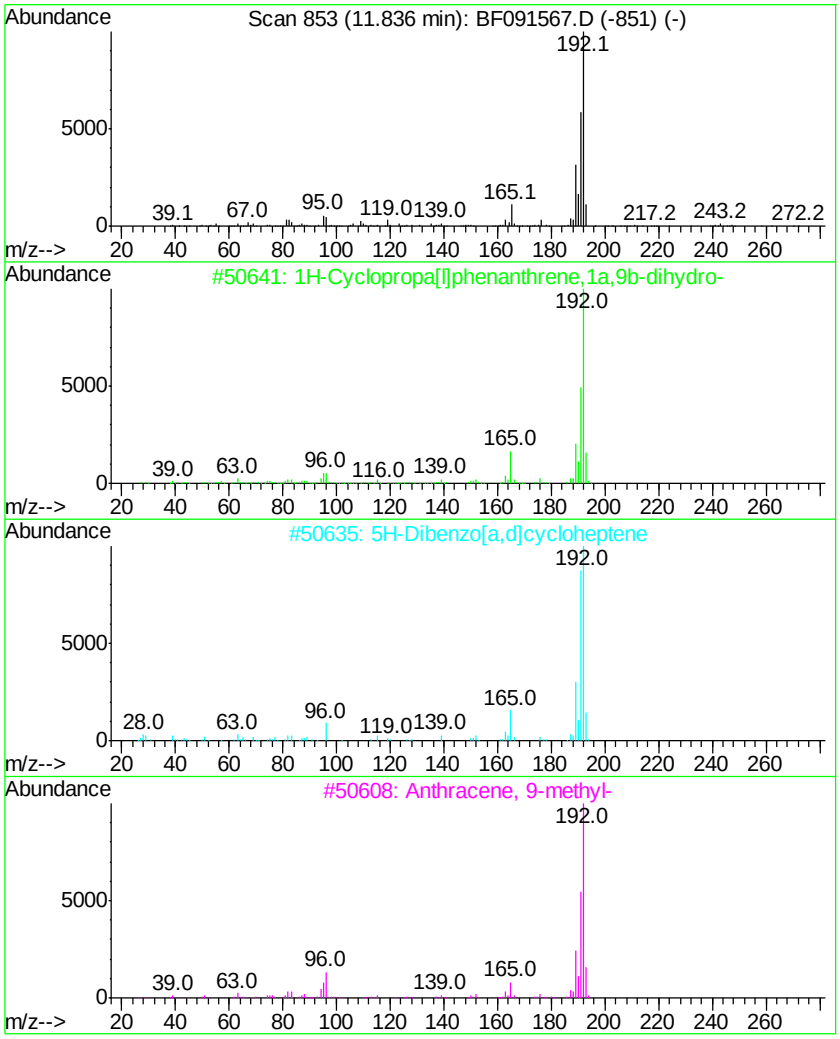
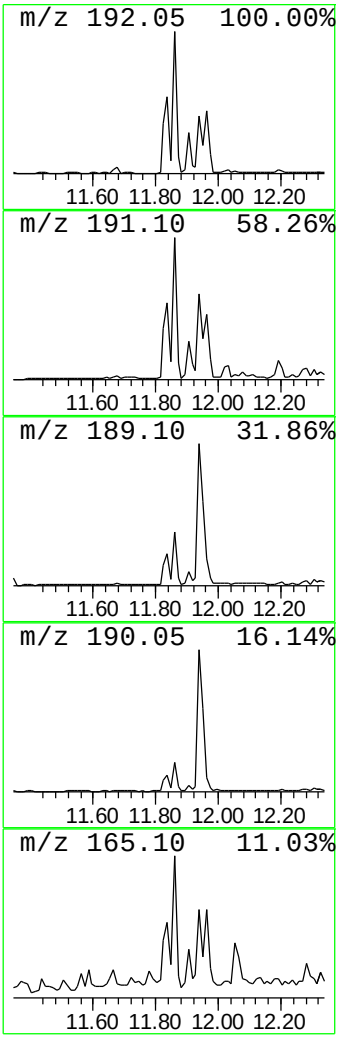
Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	4.12 ng	647168	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	87
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74





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Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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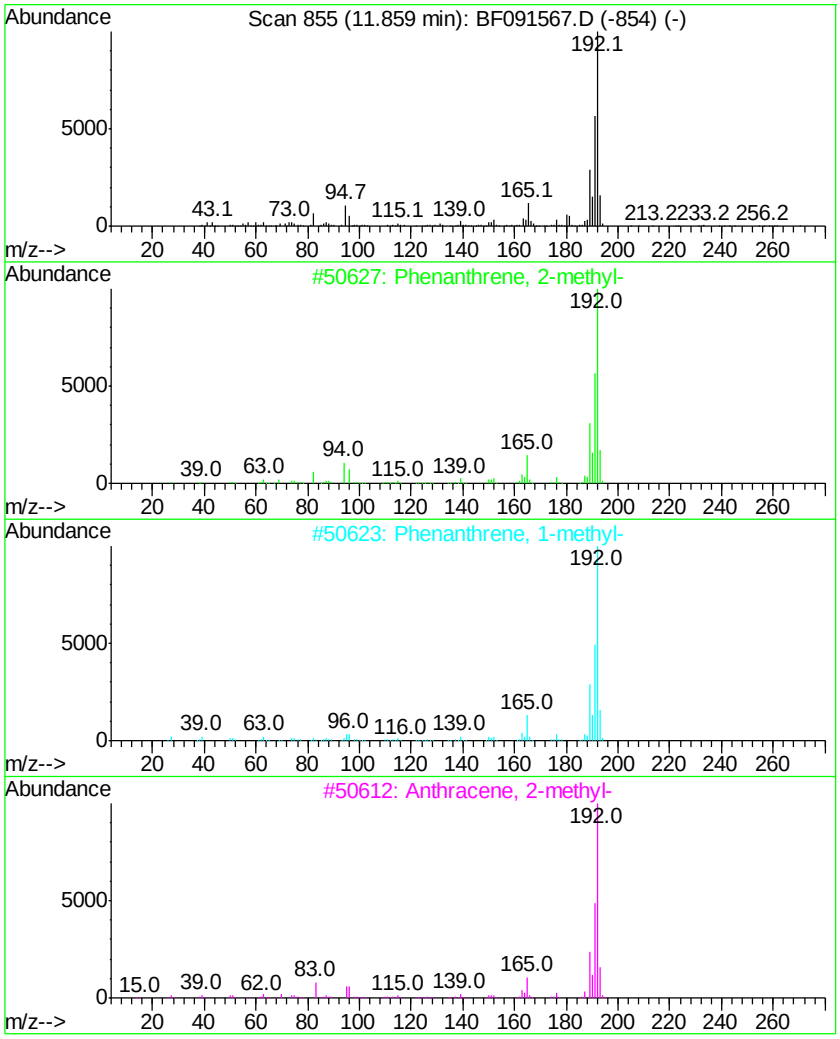
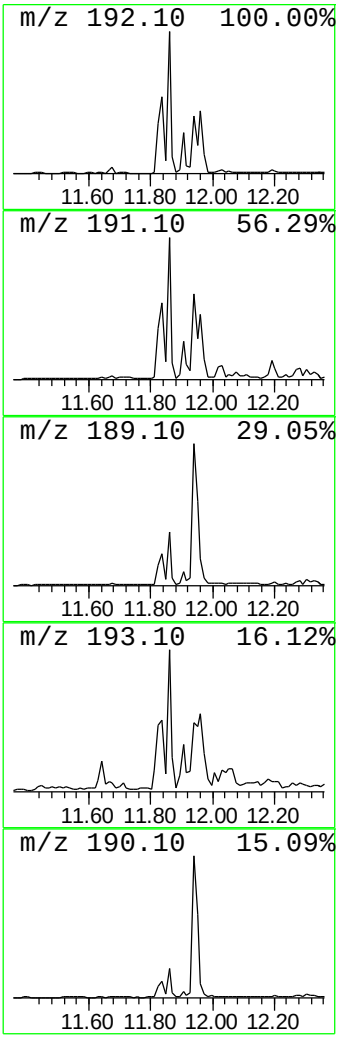
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	6.66 ng	1047690	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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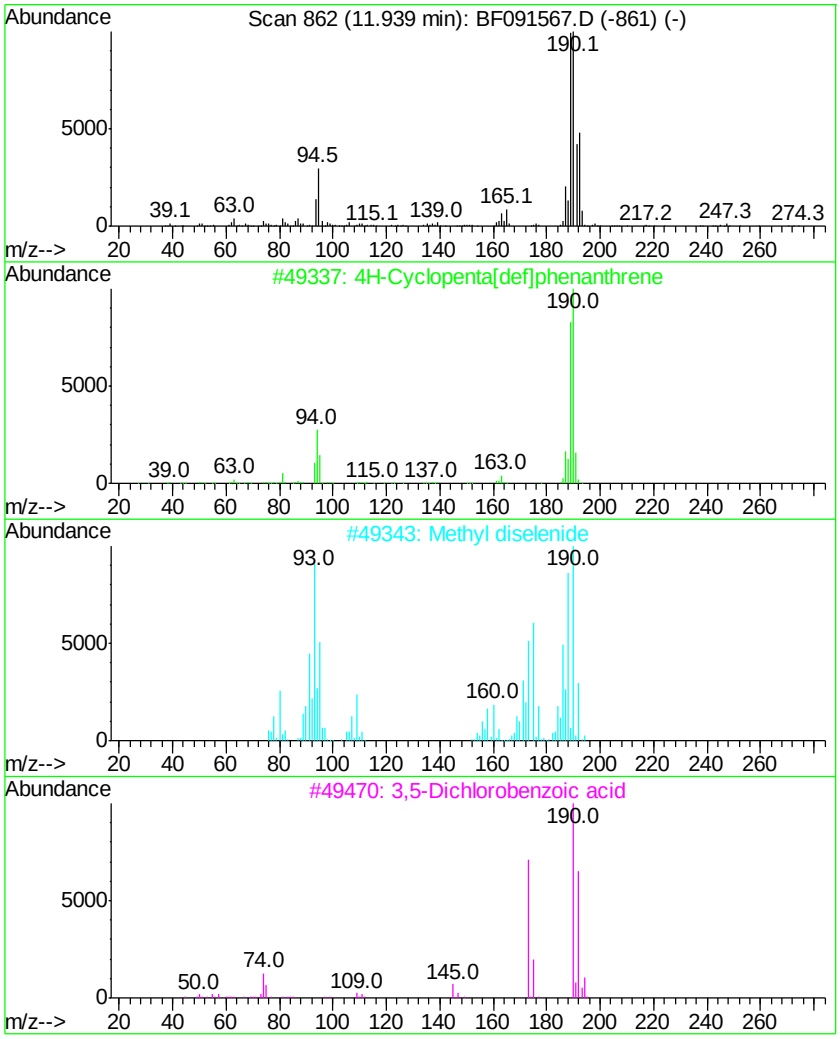
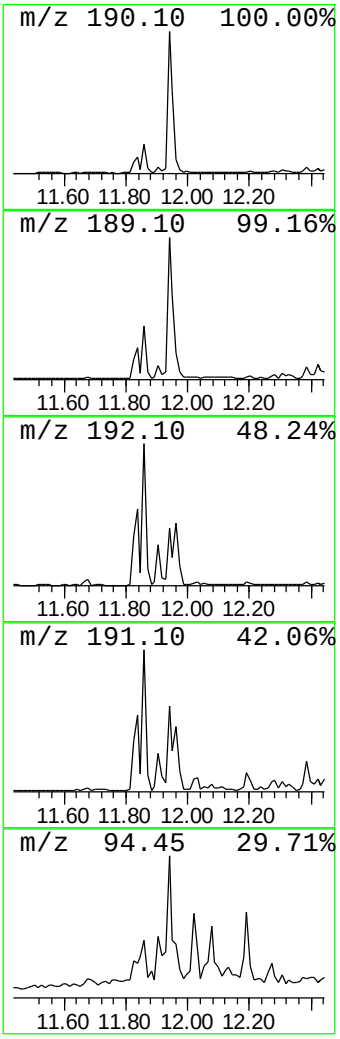
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	10.09 ng	1585600	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Methyl diselenide	190	C2H6Se2	007101-31-7	38
3	3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	27
4	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	11
5	3,5-Dichloro-2,4-dimethylphenol	190	C8H8Cl2O	1000250-17-3	9





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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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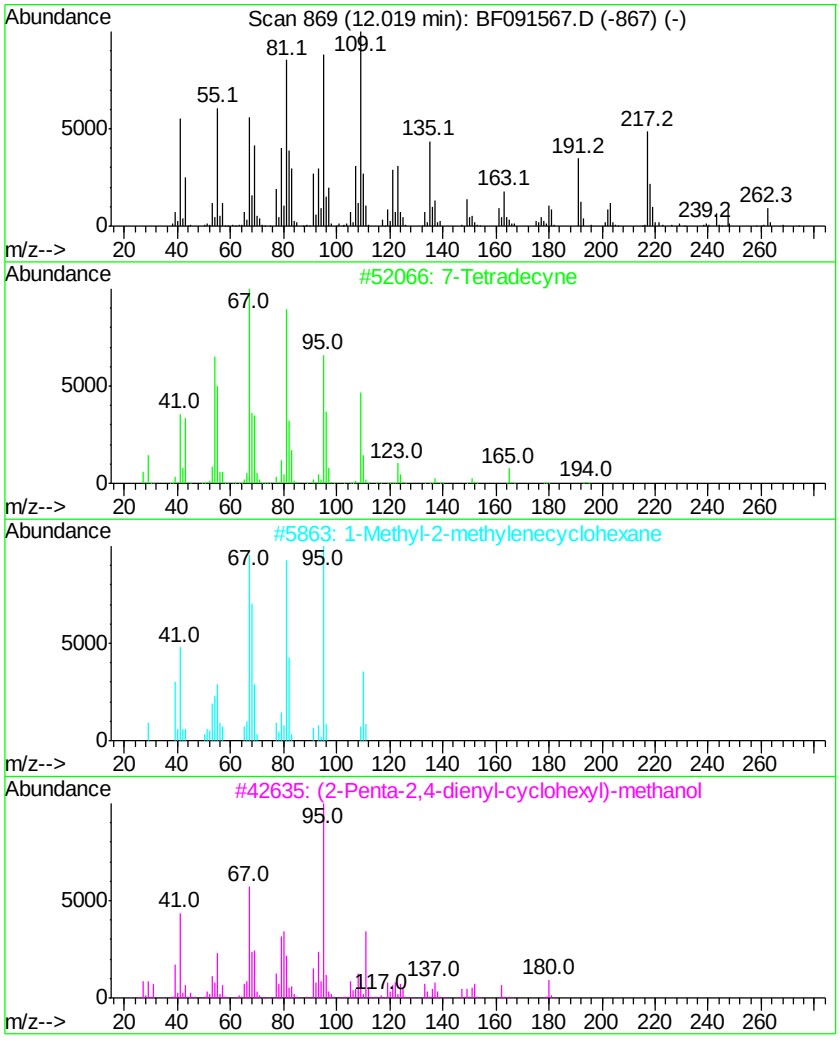
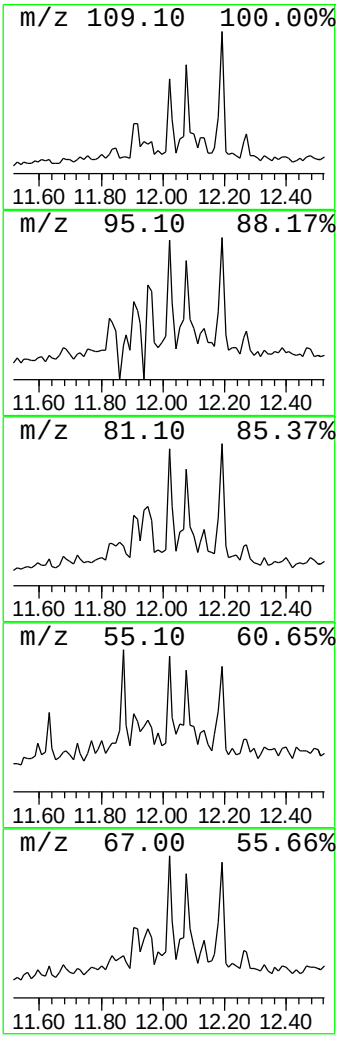
Peak Number 10 unknown12.02 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	5.47 ng	860023	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Tetradecyne	194	C14H26	035216-11-6	38
2	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	30
3	(2-Penta-2,4-dienyl-cyclohexyl)-...	180	C12H20O	1000186-20-6	25
4	Santolina epoxide	152	C10H16O	060485-45-2	15
5	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	11





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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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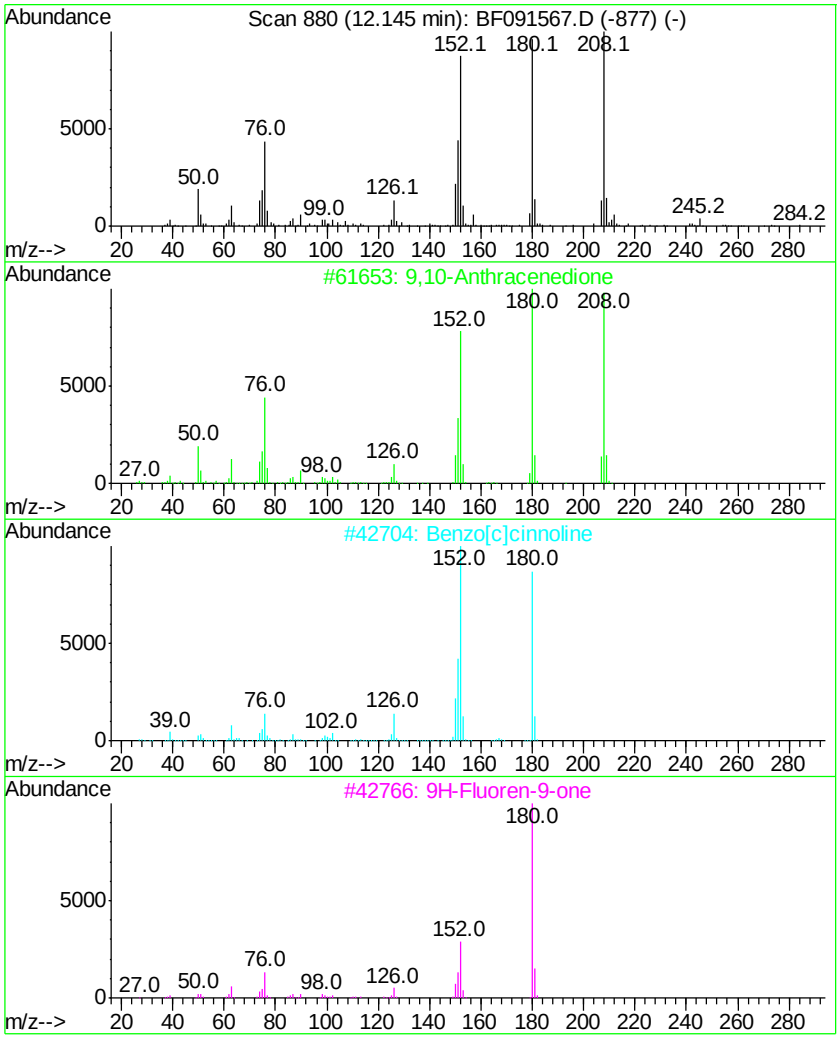
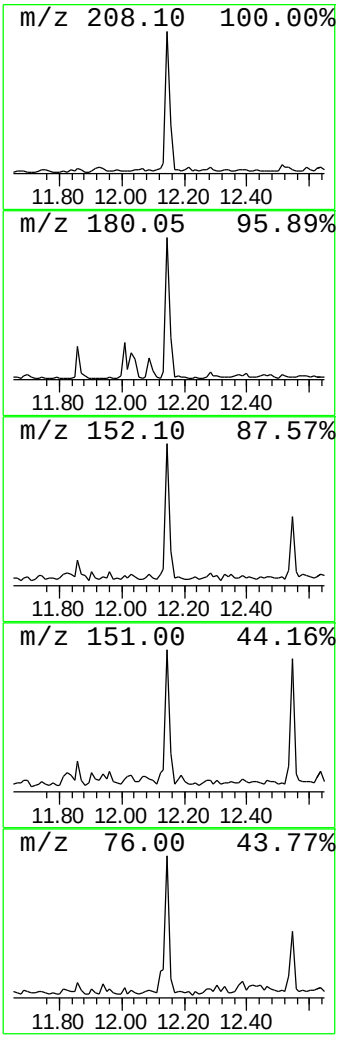
Peak Number 11 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	5.08 ng	798243	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	52





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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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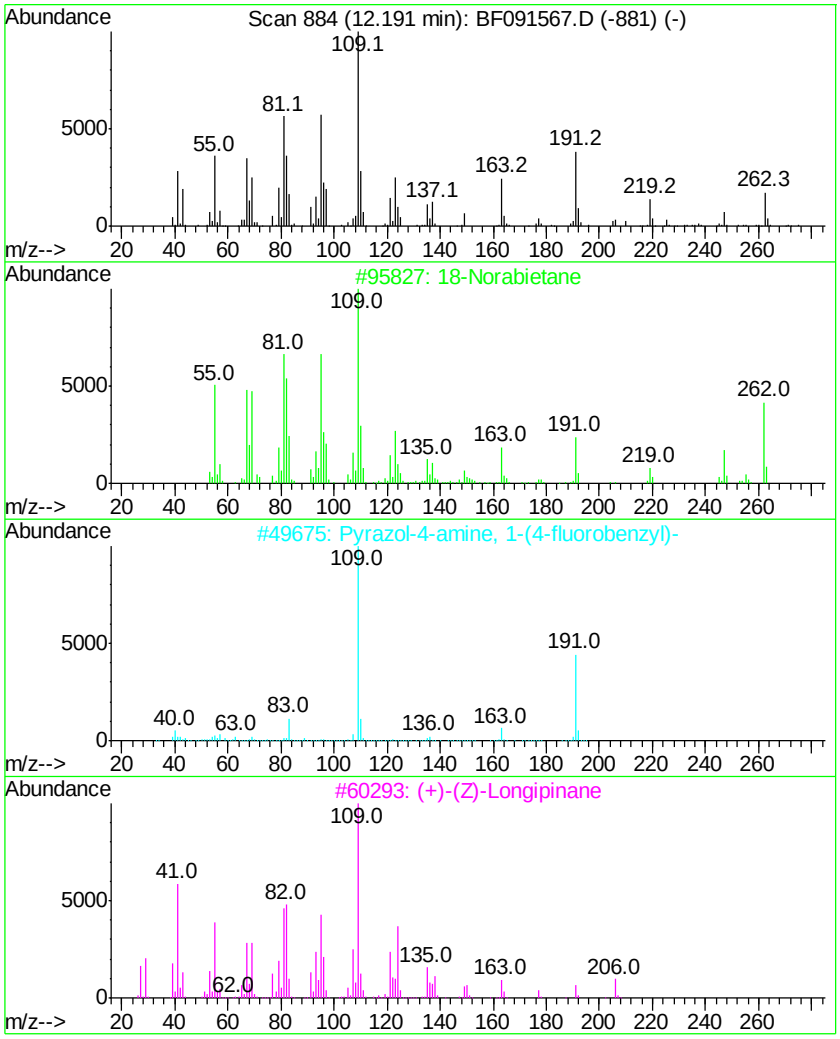
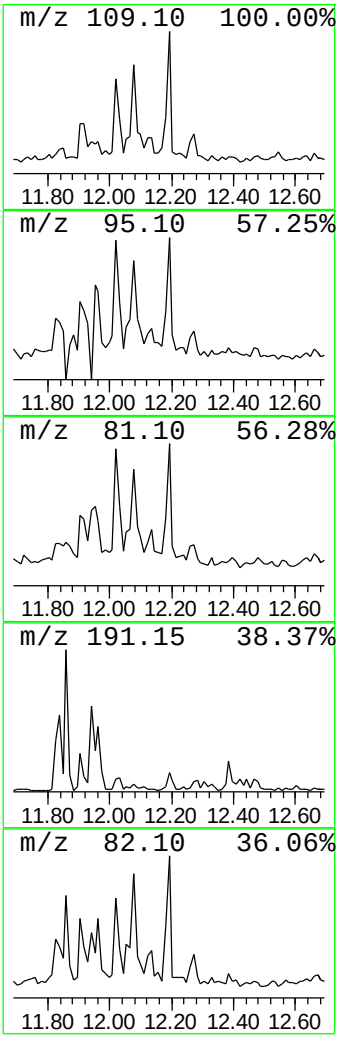
Peak Number 12 18-Norabietane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	4.43 ng	695640	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	18-Norabietane	262	C19H34	1000293-16-6	93
2	Pyrazol-4-amine, 1-(4-fluorobenz...	191	C10H10FN3	1000272-83-9	43
3	(+)-(Z)-Longipinane	206	C15H26	1000156-12-3	38
4	1,2-Benzooxazine,2-cyclohexyl-4-...	262	C16H26N2O	037898-39-8	38
5	Anthracene, 9-cyclohexyltetradec...	274	C20H34	055255-70-4	35





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Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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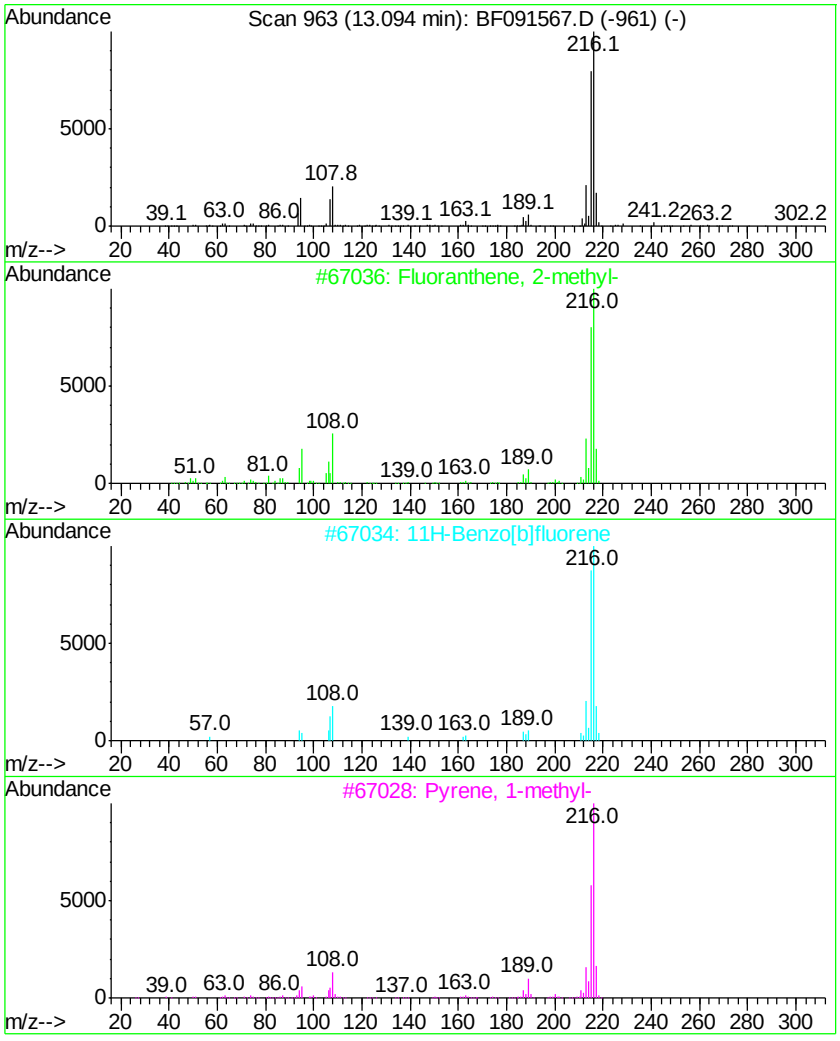
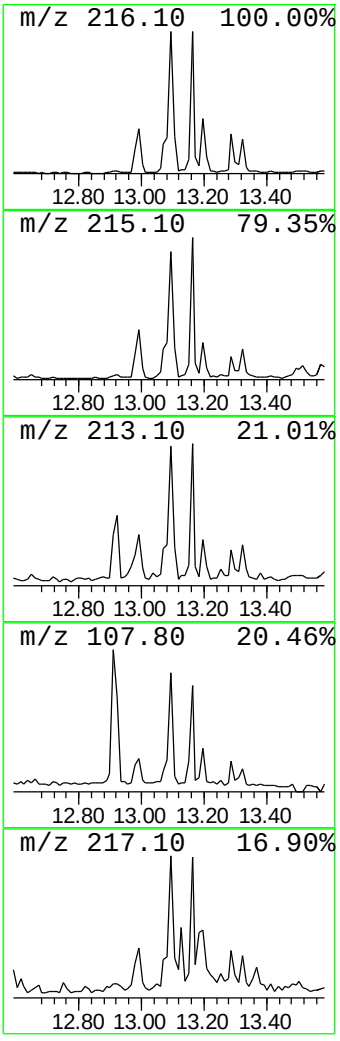
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	3.94 ng	619044	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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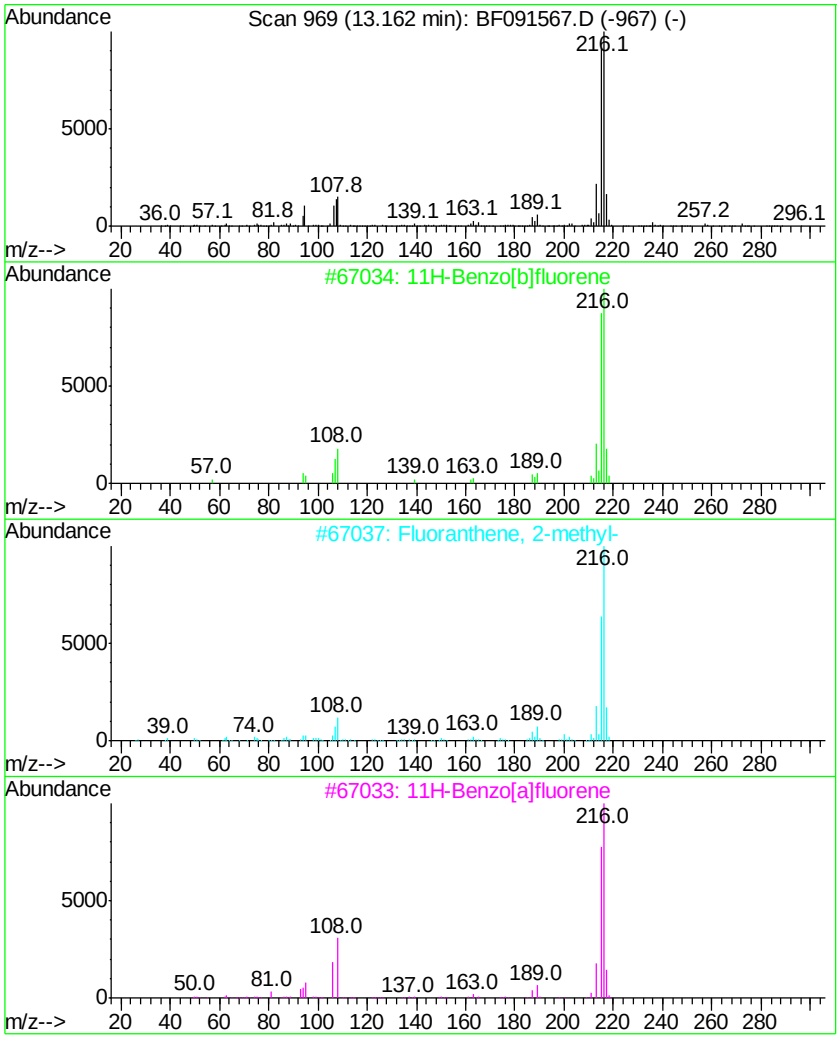
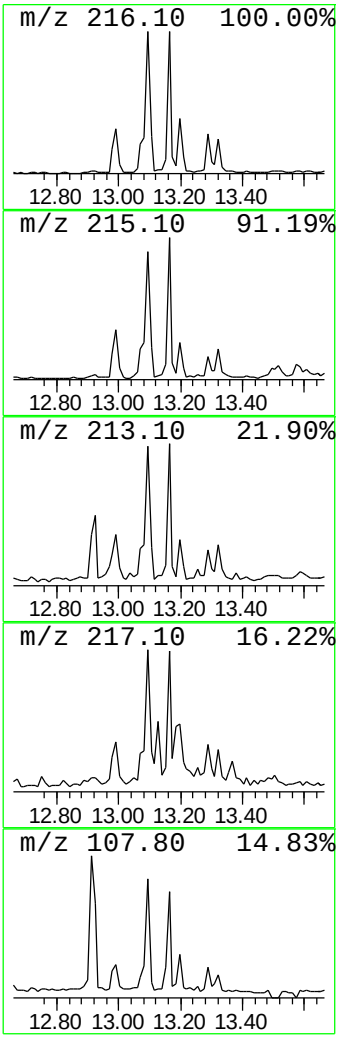
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.03 ng	633407	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64





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Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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

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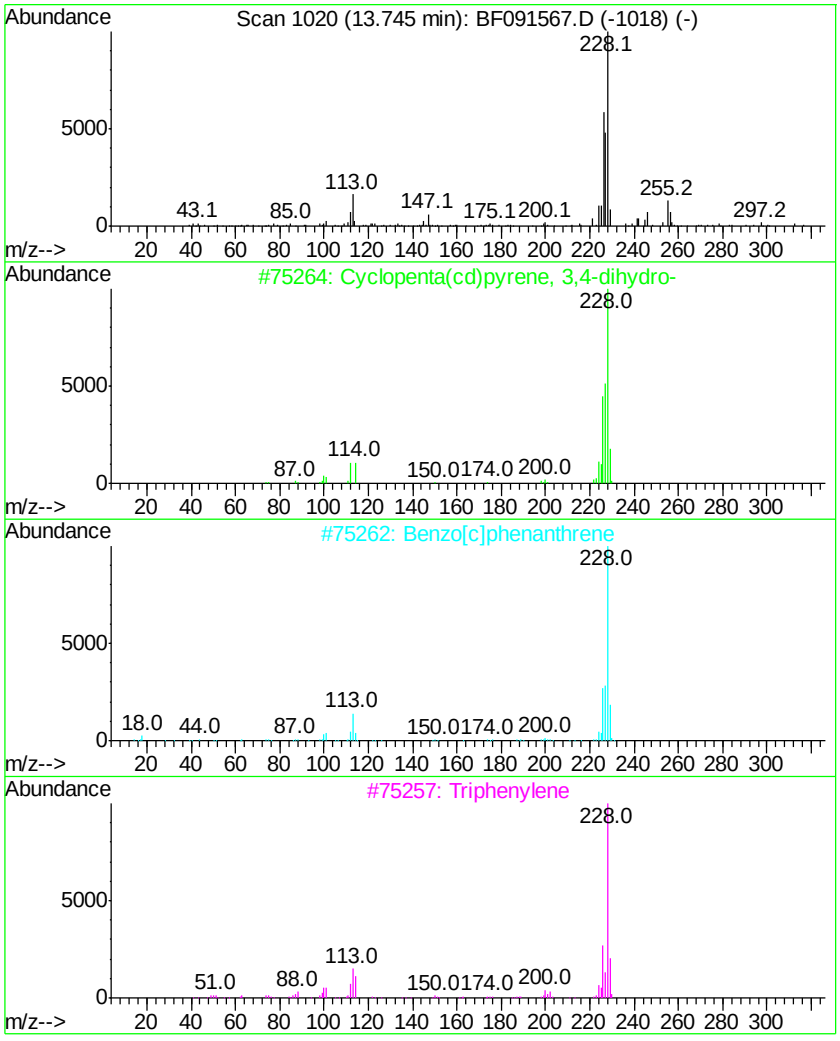
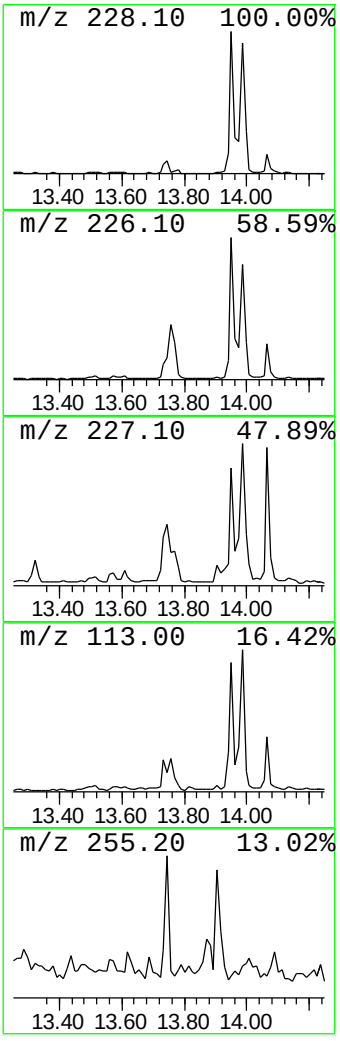
Peak Number 16 unknown13.75 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	4.06 ng	637872	Chrysene-d12	13.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	47
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
3	Triphenylene	228	C18H12	000217-59-4	38
4	Naphthacene	228	C18H12	000092-24-0	32
5	Benz[a]anthracene	228	C18H12	000056-55-3	25





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Acq On : 13 Dec 2016 21:20
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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(6-8)-12-8-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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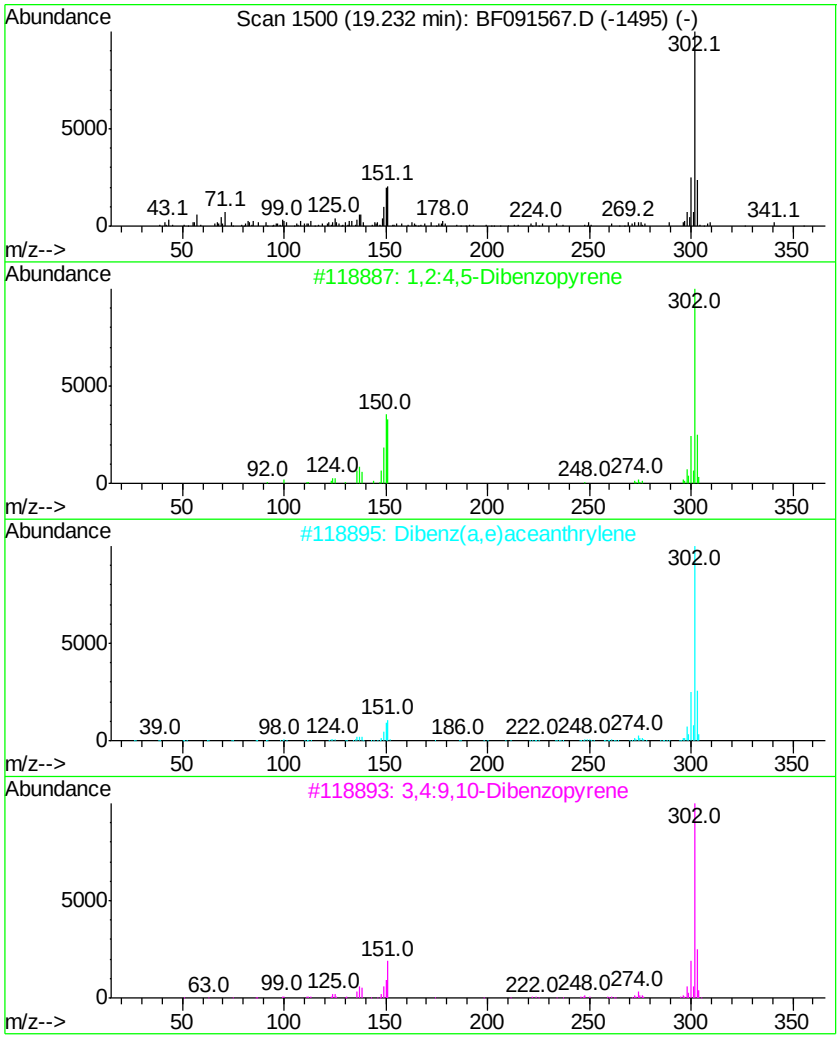
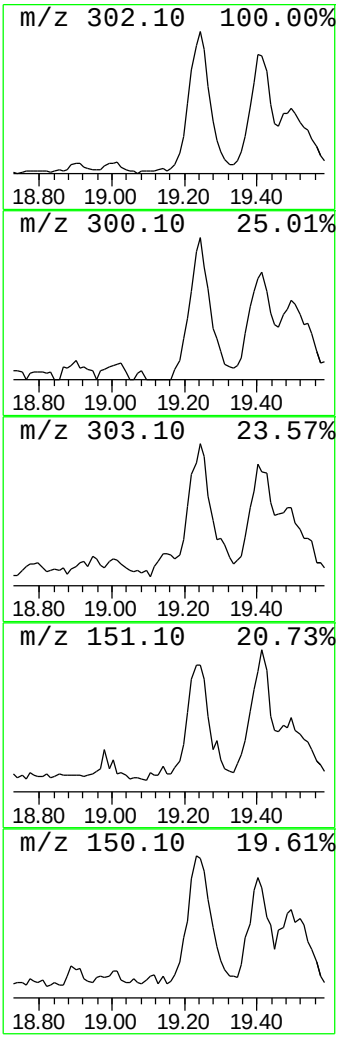
Peak Number 20 1,2:4,5-Dibenzopyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.23	5.31 ng	423786	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
3	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	89
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	81
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121316\
Data File : BF091567.D
Acq On : 13 Dec 2016 21:20
Operator : UM/SJ
Sample : H5994-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46(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
2-Pentanone, 4-hy...	5.00	41.0	ng	3543410	1	6.81	1728760	20.0
unknown6.59	6.59	106.1	ng	9172210	1	6.81	1728760	20.0
Naphthalene, 1-me...	8.91	5.1	ng	715603	2	8.10	2812310	20.0
Naphthalene, 2,6-...	9.50	5.7	ng	795603	3	9.85	2794060	20.0
Dibenzothiophene	11.23	4.9	ng	768931	4	11.33	3144000	20.0
1H-Cyclopropa[l]p...	11.84	4.1	ng	647168	4	11.33	3144000	20.0
Phenanthrene, 2-m...	11.86	6.7	ng	1047690	4	11.33	3144000	20.0
4H-Cyclopenta[def...	11.94	10.1	ng	1585600	4	11.33	3144000	20.0
unknown12.02	12.02	5.5	ng	860023	4	11.33	3144000	20.0
9,10-Anthracenedione	12.15	5.1	ng	798243	4	11.33	3144000	20.0
18-Norabietane	12.19	4.4	ng	695640	4	11.33	3144000	20.0
Fluoranthene, 2-m...	13.09	3.9	ng	619044	5	13.96	3139990	20.0
11H-Benzo[b]fluorene	13.16	4.0	ng	633407	5	13.96	3139990	20.0
unknown13.75	13.75	4.1	ng	637872	5	13.96	3139990	20.0
1,2:4,5-Dibenzopy...	19.23	5.3	ng	423786	6	15.38	1596640	20.0