LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

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-BF050916.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	1.633	3	4	13	rVB	541184	1126575	16.18%	1.603%
2	1.747	13	14	37	rVB	3247516	6964640	100.00%	9.912%
3	4.776	278	279	287	rBV	95591	190005	2.73%	0.270%
4	5.221	316	318	321	rBV	2222504	3185323	45.74%	4.533%
5	6.296	410	412	419	rBV	2606872	3077149	44.18%	4.380%
6	6.410	419	422	424	rBV	2806833	3308906	47.51%	4.709%
7	6.627	439	441	444	rBV	806861	933641	13.41%	1.329%
8	6.787	453	455	463	rVV	2858980	2549402	36.60%	3.628%
9	7.210	489	492	494	rBV	1720636	2179645	31.30%	3.102%
10	7.805	541	544	547	rBV4	27449	73759	1.06%	0.105%
11	7.919	552	554	555	rVV	1341628	1148096	16.48%	1.634%
12	8.353	591	592	596	rBV3	95006	192442	2.76%	0.274%
13	8.456	600	601	605	rVB4	53219	80977	1.16%	0.115%
14	8.627	614	616	618	rBV2	71644	105549	1.52%	0.150%
15	8.730	623	625	627	rVB	124779	123216	1.77%	0.175%
16	8.799	627	631	634	rBV5	105859	199306	2.86%	0.284%
17	8.948	642	644	646	rBV	65317	90861	1.30%	0.129%
18	9.005	646	649	651	rBV	1896270	2497999	35.87%	3.555%
19	9.085	653	656	658	rBV3	124092	213924	3.07%	0.304%
20	9.256	670	671	674	rBV2	54563	96622	1.39%	0.138%
21	9.336	676	678	679	rBV	93075	123358	1.77%	0.176%
22	9.370	679	681	682	rVB2	97529	107509	1.54%	0.153%
23	9.405	682	684	685	rBV	261702	259302	3.72%	0.369%
24	9.530	693	695	698	rBV	132331	152117	2.18%	0.216%
25	9.576	698	699	701	rVB	110120	91002	1.31%	0.130%
26	9.610	701	702	704	rBV	156643	170915	2.45%	0.243%
27	9.668	704	707	709	rVV	1114722	1121529	16.10%	1.596%
28	9.702	709	710	713	rVV	366200	303210	4.35%	0.432%
29	9.793	715	718	719	rVV2	42332	73675	1.06%	0.105%
30	9.828	719	721	723	rVV3	50550	96672	1.39%	0.138%
31	9.873	723	725	727	rVV	243061	221503	3.18%	0.315%
32	9.919	727	729	732	rVB2	71873	149813	2.15%	0.213%
33	9.988	732	735	740	rBV3	60695	143562	2.06%	0.204%
34	10.068	740	742	744	rBV3	58149	90752	1.30%	0.129%

LSC Area Percent Report

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Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

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-BF050916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.113	744	746	748	rVB	228199	189264	2.72%	0.269%
36	10.159	748	750	753	rVB4	38925	94127	1.35%	0.134%
37	10.216	753	755	757	rBV	309467	342385	4.92%	0.487%
38	10.273	758	760	761	rBV	47764	76457	1.10%	0.109%
39	10.331	763	765	767	rVV	94469	131592	1.89%	0.187%
40	10.376	767	769	771	rVB	95447	129636	1.86%	0.185%
41	10.456	773	776	778	rBV	1765624	1654594	23.76%	2.355%
42	10.491	778	779	782	rVB2	51088	80993	1.16%	0.115%
43	10.582	785	787	791	rVB	243769	286709	4.12%	0.408%
44	10.753	799	802	804	rBV2	72266	158331	2.27%	0.225%
45	10.913	811	816	819	rBV3	84848	273945	3.93%	0.390%
46	11.005	822	824	825	rBV	82897	105184	1.51%	0.150%
47	11.039	825	827	831	rVB2	157524	269271	3.87%	0.383%
48	11.176	834	839	840	rBV2	1648908	2927753	42.04%	4.167%
49	11.222	840	843	845	rVB	825850	714434	10.26%	1.017%
50	11.256	845	846	848	rBV	82932	91804	1.32%	0.131%
51	11.382	855	857	861	rVB2	113459	196208	2.82%	0.279%
52	11.451	861	863	864	rBV2	63391	97645	1.40%	0.139%
53	11.645	878	880	881	rBV	359466	346530	4.98%	0.493%
54	11.679	881	883	885	rVV	321996	492857	7.08%	0.701%
55	11.725	885	887	888	rVV	185408	218974	3.14%	0.312%
56	11.759	888	890	895	rVB2	601623	958547	13.76%	1.364%
57	11.839	895	897	898	rBV2	52765	79191	1.14%	0.113%
58	11.942	904	906	907	rBV	256317	198941	2.86%	0.283%
59	11.965	907	908	911	rVB2	82710	101561	1.46%	0.145%
60	12.091	917	919	921	rBV	116837	119673	1.72%	0.170%
61	12.125	921	922	925	rVB	81547	122279	1.76%	0.174%
62	12.194	926	928	930	rBV	244916	317908	4.56%	0.452%
63	12.228	930	931	934	rVB2	138121	230570	3.31%	0.328%
64	12.285	934	936	940	rVB3	184660	257794	3.70%	0.367%
65	12.354	940	942	945	rBV	2556723	3311381	47.55%	4.713%
66	12.422	945	948	949	rBV3	71623	130965	1.88%	0.186%
67	12.502	952	955	957	rBV	183940	289507	4.16%	0.412%
68	12.582	959	962	965	rBV	2842661	3632516	52.16%	5.170%
69	12.731	971	975	978	rBV	2236172	2325803	33.39%	3.310%
70	12.799	978	981	983	rBV2	238591	388488	5.58%	0.553%
71	12.914	986	991	993	rVB2	516454	840766	12.07%	1.197%

LSC Area Percent Report

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Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

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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Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.971	995	996	998	rBV	327705	384395	5.52%	0.547%
73	13.016	998	1000	1004	rBV2	285701	593021	8.51%	0.844%
74	13.131	1009	1010	1012	rBV	189166	212489	3.05%	0.302%
75	13.519	1042	1044	1046	rBV	201620	386301	5.55%	0.550%
76	13.554	1046	1047	1048	rVB	182871	148515	2.13%	0.211%
77	13.771	1063	1066	1068	rBV2	1787433	2948559	42.34%	4.197%
78	13.805	1068	1069	1071	rVV	1504710	1207145	17.33%	1.718%
79	13.885	1073	1076	1077	rBV2	216802	349784	5.02%	0.498%
80	14.159	1098	1100	1102	rBV	254655	371786	5.34%	0.529%
81	14.228	1104	1106	1110	rVV4	262635	519723	7.46%	0.740%
82	14.777	1151	1154	1158	rBV	1166435	2085948	29.95%	2.969%
83	14.868	1160	1162	1167	rVB	316206	674095	9.68%	0.959%
84	15.040	1174	1177	1179	rVB	521915	846052	12.15%	1.204%
85	15.085	1179	1181	1184	rVB	782910	1140384	16.37%	1.623%
86	15.142	1184	1186	1187	rBV	510949	553452	7.95%	0.788%
87	16.160	1273	1275	1276	rVB2	171139	146127	2.10%	0.208%
88	16.205	1276	1279	1280	rBV3	197836	313676	4.50%	0.446%
89	16.400	1293	1296	1300	rVB2	345721	602962	8.66%	0.858%
90	16.788	1326	1330	1333	rBV	301289	755882	10.85%	1.076%
91	16.868	1335	1337	1339	rVB2	213991	267652	3.84%	0.381%
92	16.971	1344	1346	1348	rBV2	161224	291835	4.19%	0.415%
93	17.005	1348	1349	1352	rVV3	342603	480020	6.89%	0.683%
94	17.108	1356	1358	1359	rBV2	294785	223272	3.21%	0.318%
95	18.434	1472	1474	1475	rBV2	77454	109931	1.58%	0.156%
96	18.606	1487	1489	1492	rVB4	151626	251865	3.62%	0.358%
97	18.686	1494	1496	1500	rVB3	145785	299383	4.30%	0.426%
98	18.937	1516	1518	1519	rVB2	146142	123945	1.78%	0.176%
99	19.360	1553	1555	1558	rBV4	97645	271833	3.90%	0.387%
100	19.440	1560	1562	1564	rVB2	68584	74612	1.07%	0.106%

Sum of corrected areas: 70262183

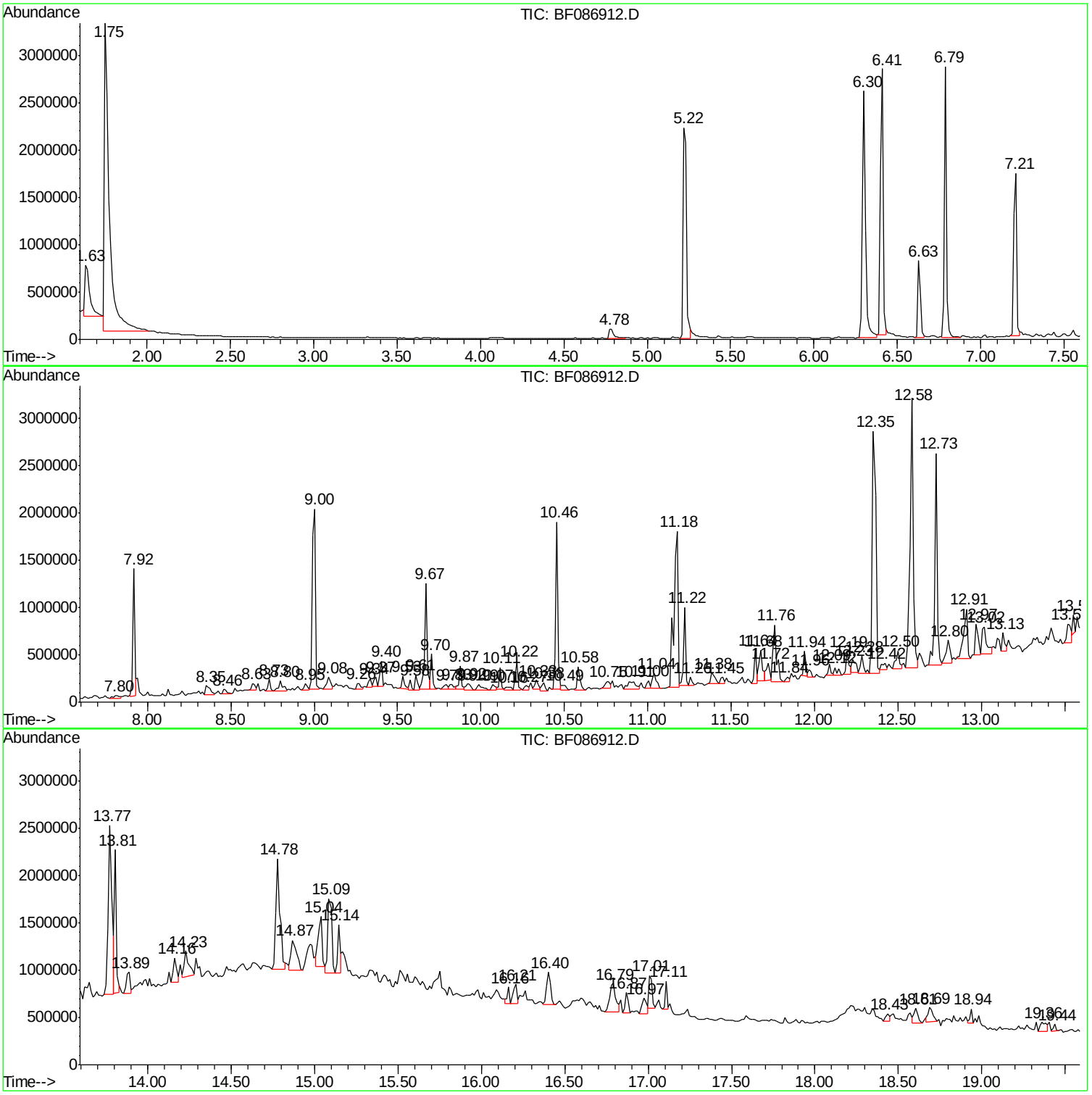
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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\BF051116\
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Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

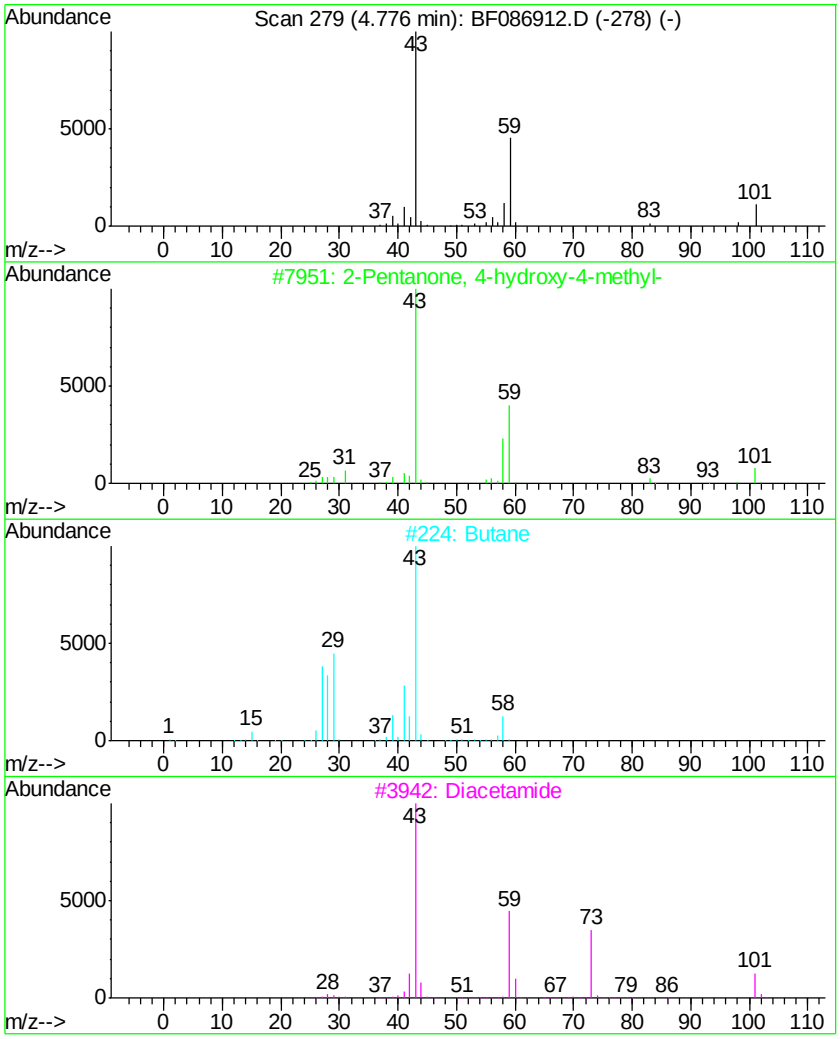
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

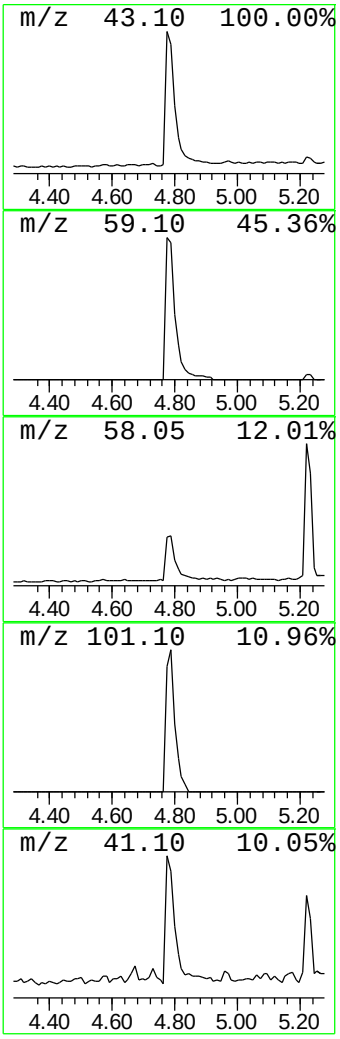
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.78	4.07 ng	190005	1,4-Dichlorobenzene-d4	6.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Butane	58	C4H10	000106-97-8	9
3	Diacetamide	101	C4H7NO2	000625-77-4	9
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

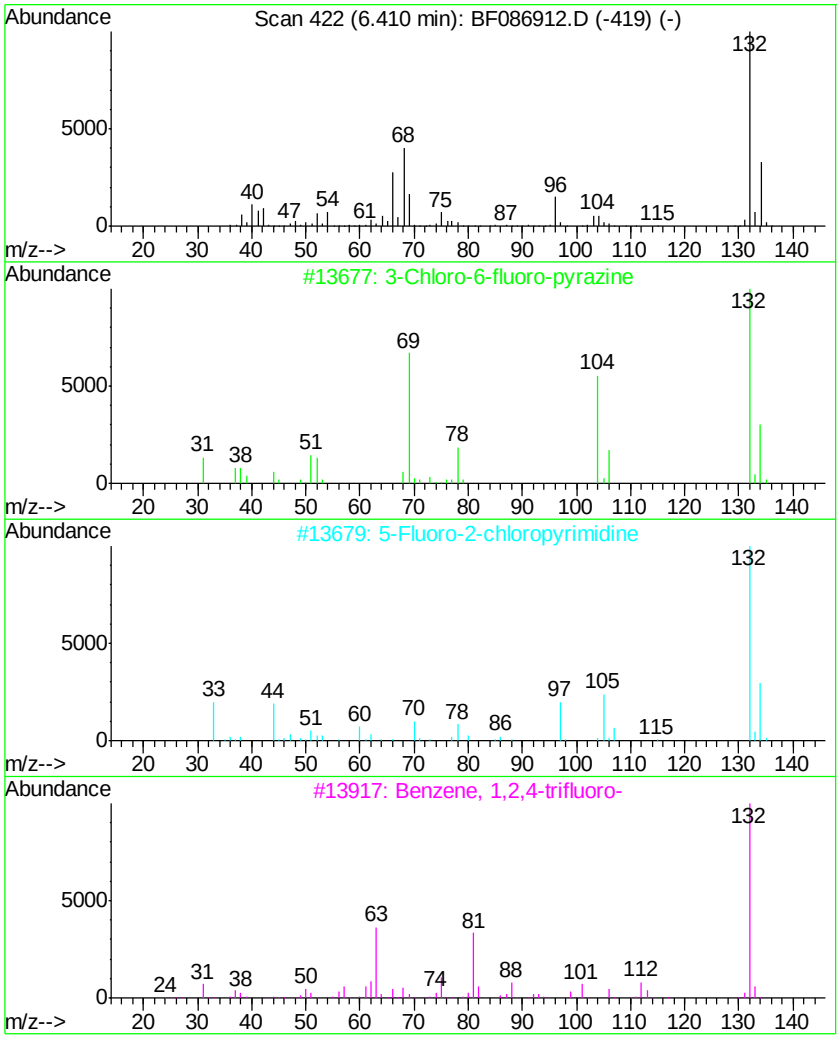
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

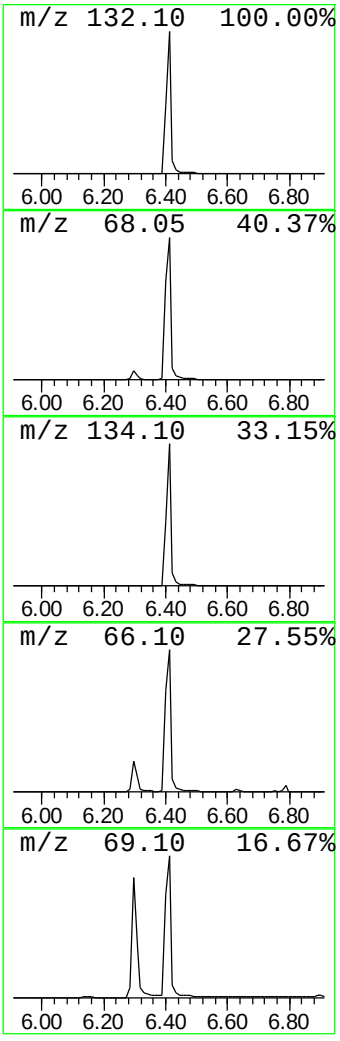
****

Peak Number 4 unknown6.41 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.41	70.88 ng	3308910	1,4-Dichlorobenzene-d4	6.63

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9
4	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
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Sample : H2965-02
Misc :
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Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

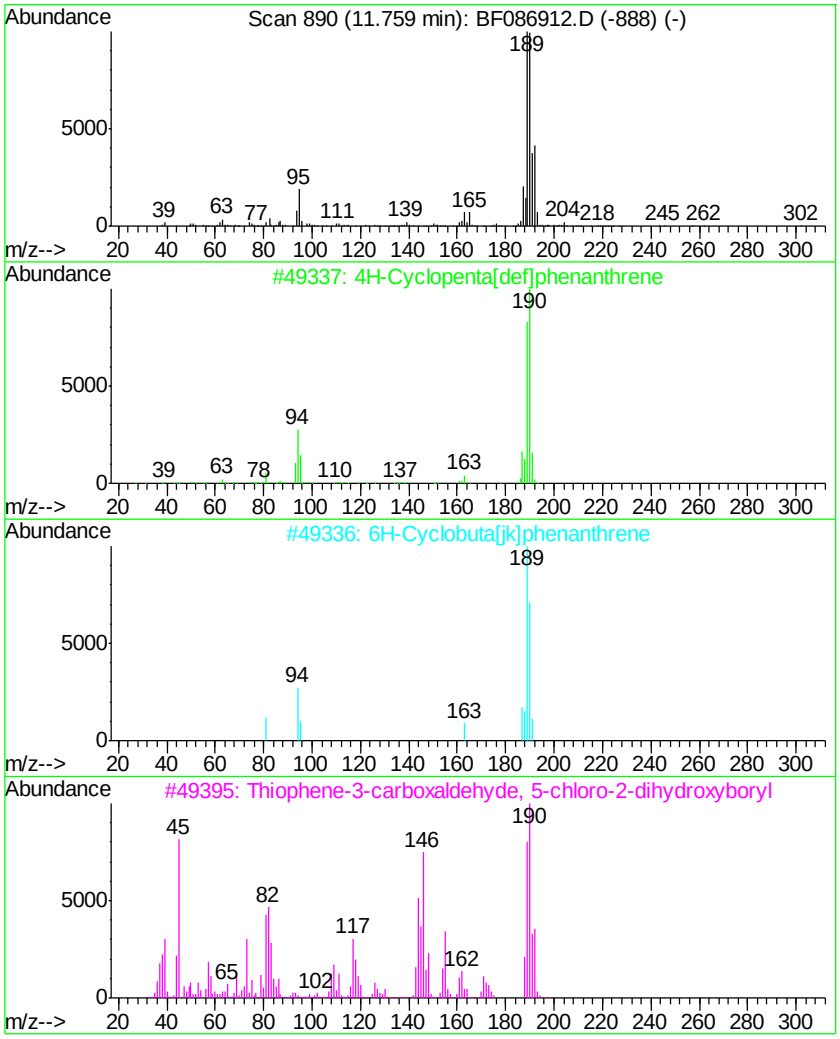
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

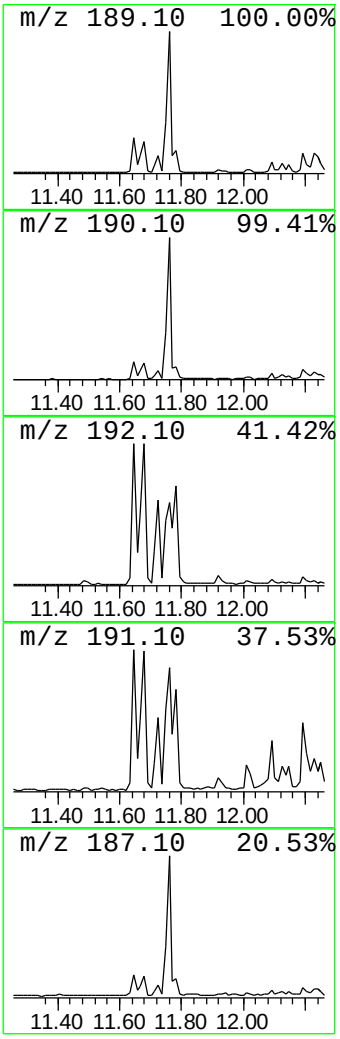
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	6.55 ng	958547	Phenanthrene-d10	11.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	89
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	52
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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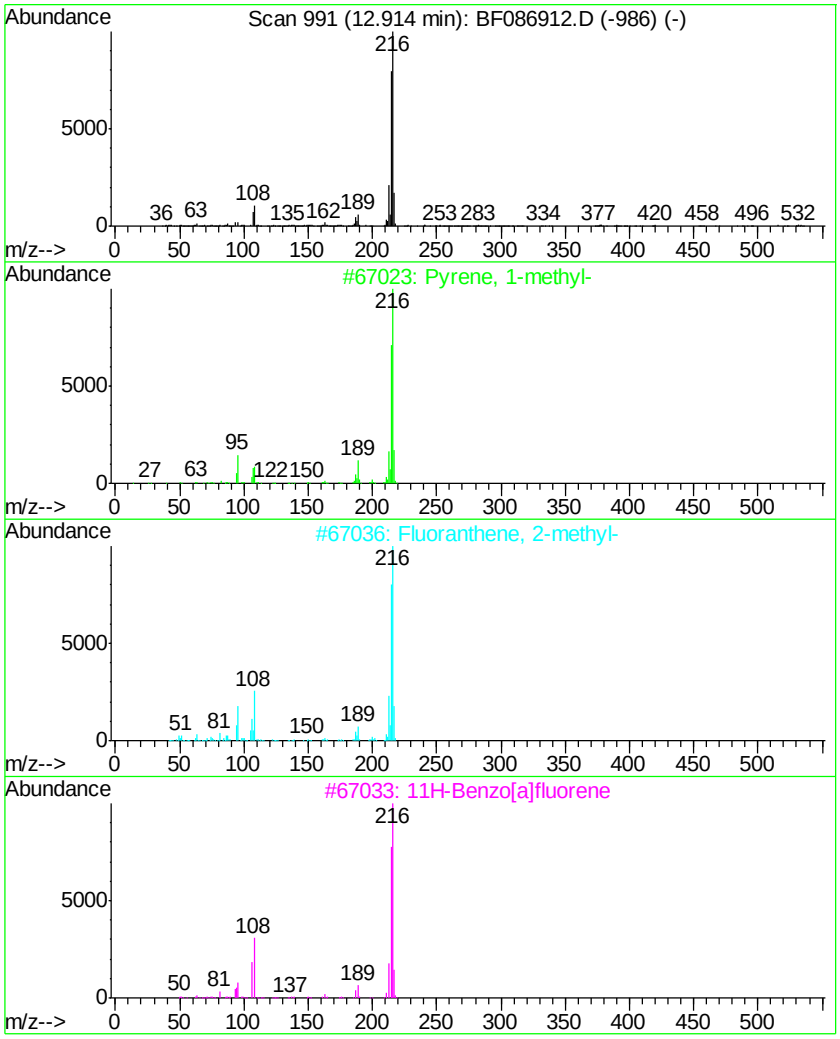
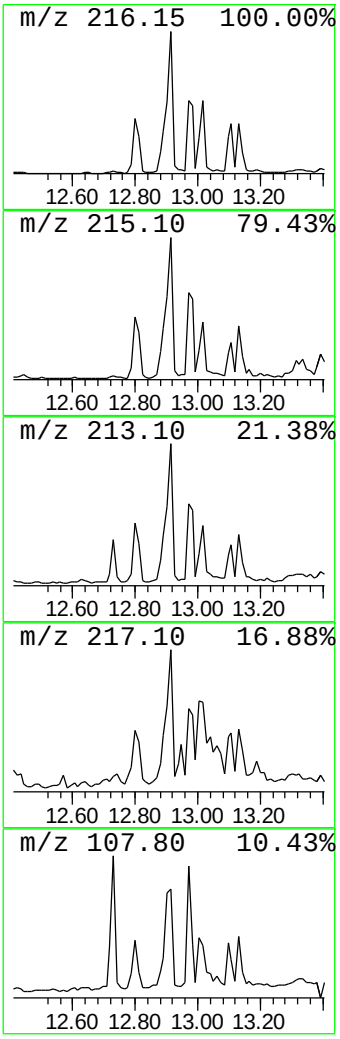
Peak Number 7 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.91	5.70 ng	840766	Chrysene-d12	13.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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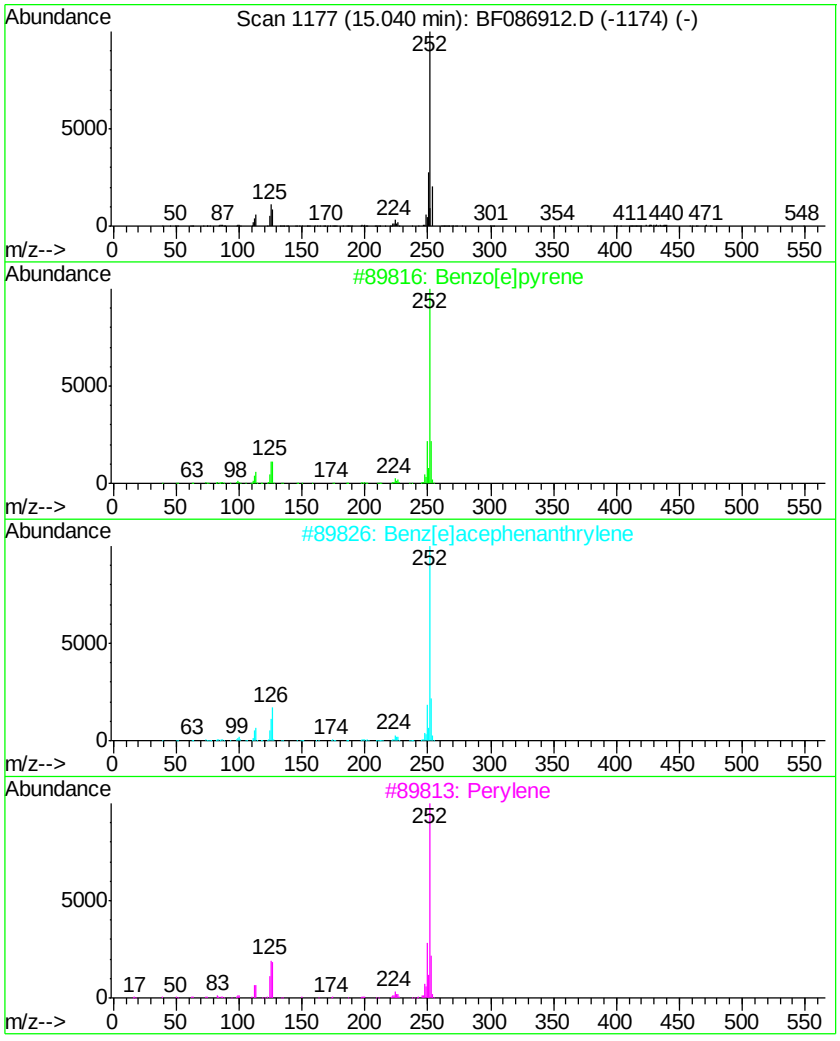
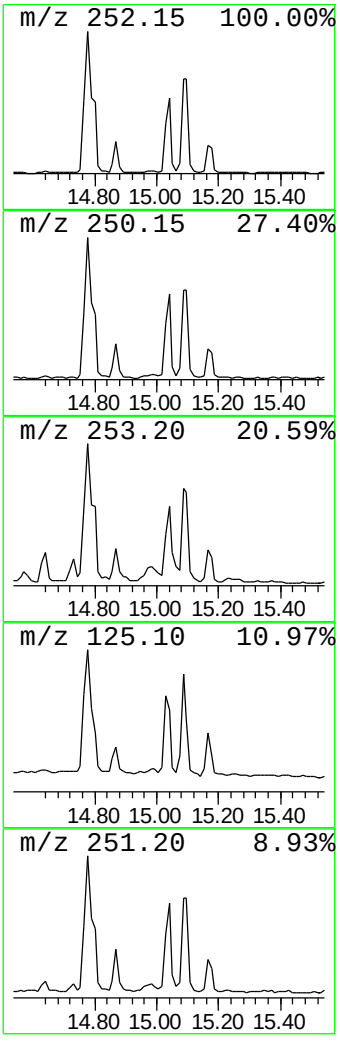
Peak Number 10 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	30.57 ng	846052	Perylene-d12	15.14

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	96
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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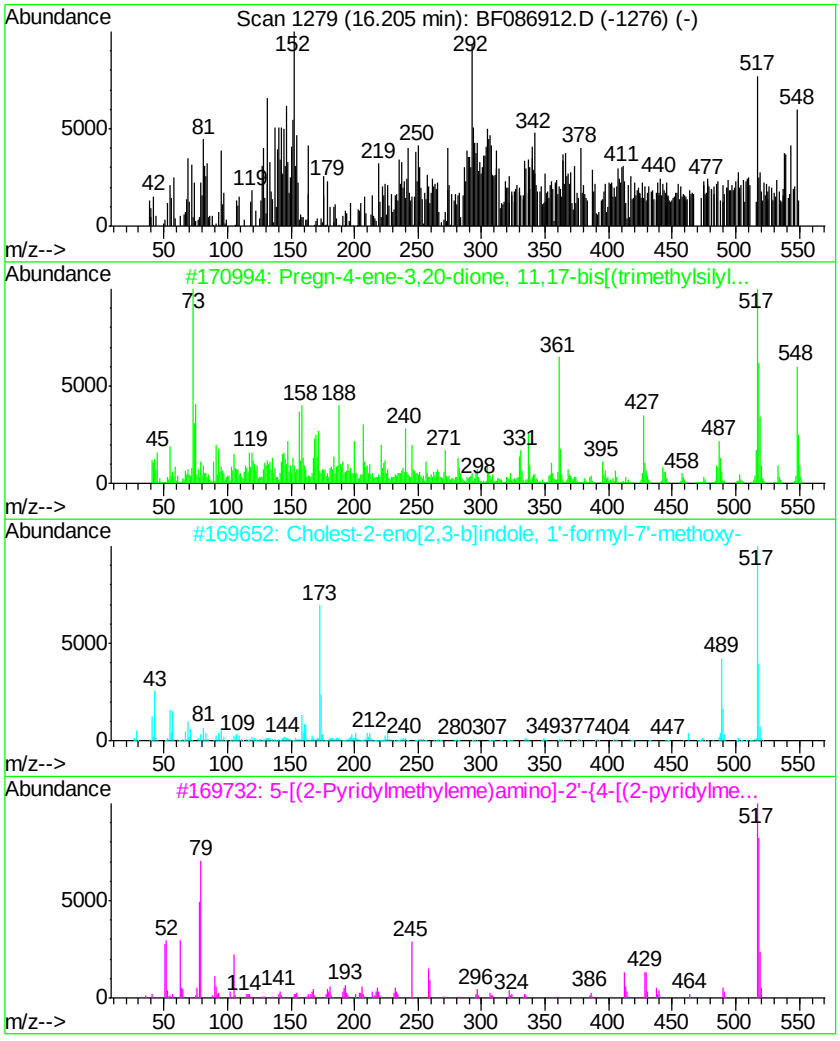
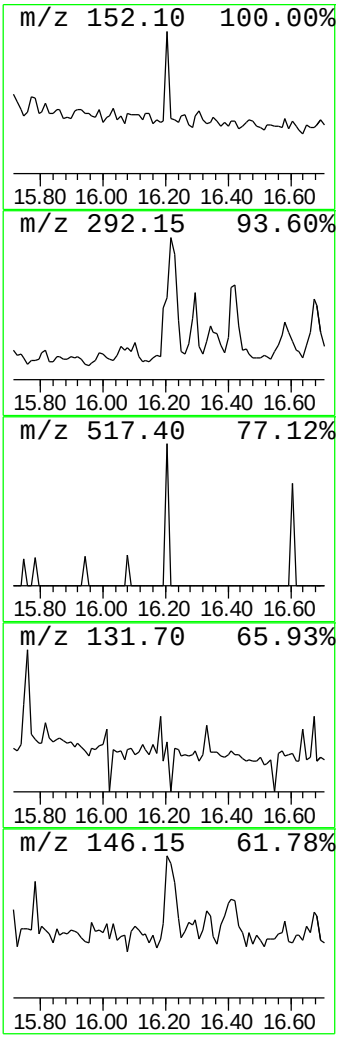
Peak Number 12 unknown16.21 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.21	11.34 ng	313676	Perylene-d12	15.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pregn-4-ene-3,20-dione, 11,17-bi...	548	C29H52N2O4Si2	057305-37-0	22
2	Cholest-2-eno[2,3-b]indole, 1'-f...	517	C35H51NO2	1000210-96-5	9
3	5-[(2-Pyridylmethyleme)amino]-2'...	518	C32H22N8	294651-18-6	9
4	1,2-Di(2,3,7,8,12,13,17,18-octae...	1093	C74H92N8	106085-73-8	9
5	Cholest-2-eno[2,3-b]indole, 1'-f...	517	C35H51NO2	1000210-96-1	7





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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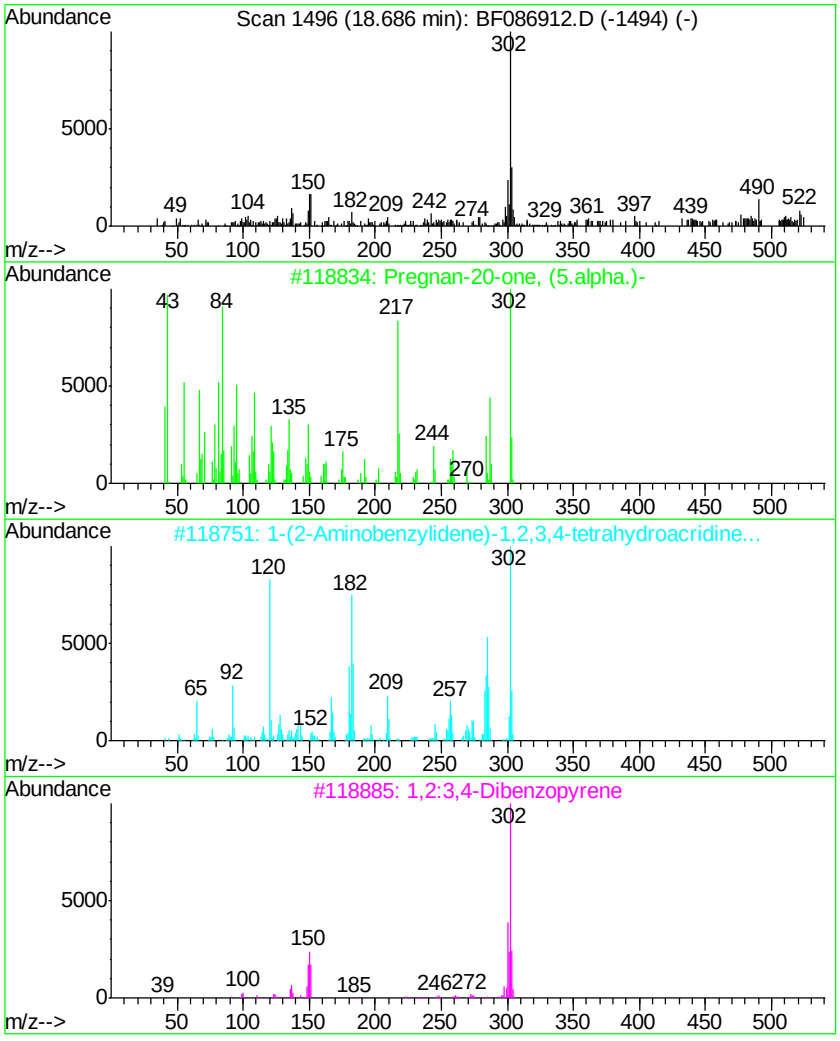
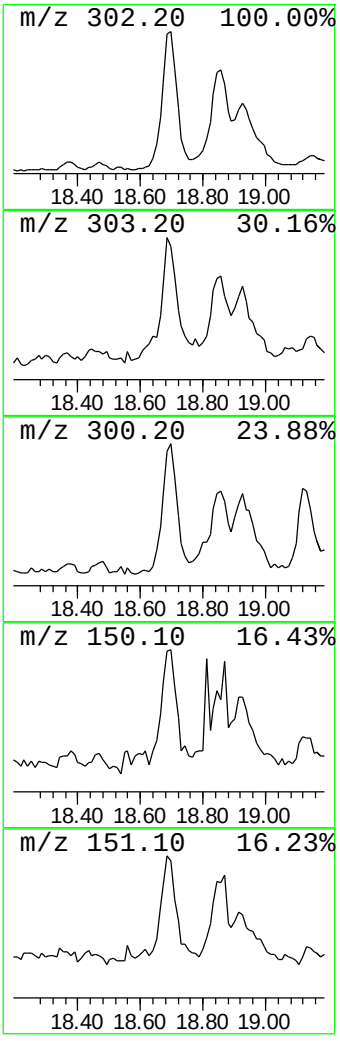
Peak Number 18 Pregnan-20-one, (5.alpha.)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.69	10.82 ng	299383	Perylene-d12	15.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pregnan-20-one, (5.alpha.)-	302	C21H34O	000848-62-4	96
2	1-(2-Aminobenzylidene)-1,2,3,4-t...	302	C20H18N2O	1000110-40-2	95
3	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	78
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	78
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	78





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086912.D
Acq On : 12 May 2016 2:53
Operator : UM/SJ
Sample : H2965-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : E-15(8.5-9)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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...	4.78	4.1	ng	190005	1	6.63	933641	20.0
unknown6.41	6.41	70.9	ng	3308910	1	6.63	933641	20.0
4H-Cyclopenta[def...	11.76	6.5	ng	958547	4	11.14	2927750	20.0
Pyrene, 1-methyl-	12.91	5.7	ng	840766	5	13.78	2948560	20.0
Benzo[e]pyrene	15.04	30.6	ng	846052	6	15.14	553452	20.0
unknown16.21	16.21	11.3	ng	313676	6	15.14	553452	20.0
Pregnan-20-one, (...	18.69	10.8	ng	299383	6	15.14	553452	20.0