LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

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-BF042716.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	4.967	249	252	258	rBV	188866	302361	5.10%	0.282%
2	5.378	285	288	291	rBV	4228751	4831585	81.42%	4.504%
3	6.430	376	380	382	rBV	4266981	5934267	100.00%	5.532%
4	6.499	385	386	388	rVV	51993	64800	1.09%	0.060%
5	6.544	388	390	393	rVV	3723632	5249752	88.47%	4.894%
6	6.773	408	410	413	rBV	846517	1016735	17.13%	0.948%
7	6.933	421	424	427	rBV	3626809	3706580	62.46%	3.455%
8	7.344	457	460	463	rBV	2745892	3158215	53.22%	2.944%
9	7.813	498	501	503	rBV	37098	59590	1.00%	0.056%
10	8.064	520	523	525	rBV	1447951	1386277	23.36%	1.292%
11	9.093	609	613	615	rBV2	42041	70468	1.19%	0.066%
12	9.150	615	618	620	rBV	3249810	4588621	77.32%	4.277%
13	9.482	643	647	648	rBV	102672	202024	3.40%	0.188%
14	9.505	648	649	650	rVV	149845	124814	2.10%	0.116%
15	9.539	650	652	654	rVV	424392	430558	7.26%	0.401%
16	9.573	654	655	660	rVB4	100788	162618	2.74%	0.152%
17	9.756	670	671	673	rVB	161613	119212	2.01%	0.111%
18	9.813	674	676	678	rBV	1203022	1285645	21.66%	1.198%
19	9.939	685	687	689	rBV	215289	205567	3.46%	0.192%
20	9.973	689	690	693	rVB2	39582	62995	1.06%	0.059%
21	10.259	711	715	716	rBV	171927	200517	3.38%	0.187%
22	10.419	727	729	731	rVB	60397	77785	1.31%	0.073%
23	10.488	731	735	737	rBV2	86360	184687	3.11%	0.172%
24	10.522	737	738	740	rBV2	43817	76699	1.29%	0.071%
25	10.602	742	745	748	rVV	2158722	2598410	43.79%	2.422%
26	10.648	748	749	753	rVB2	89913	169636	2.86%	0.158%
27	10.728	754	756	759	rBV	261276	273182	4.60%	0.255%
28	10.853	765	767	769	rBV2	98279	103954	1.75%	0.097%
29	11.025	780	782	786	rVB2	56030	139210	2.35%	0.130%
30	11.105	787	789	791	rVB2	64742	80458	1.36%	0.075%
31	11.173	792	795	797	rBV2	78041	110319	1.86%	0.103%
32	11.299	803	806	808	rBV	992623	1069028	18.01%	0.997%
33	11.333	808	809	810	rVV	315637	316650	5.34%	0.295%
34	11.368	810	812	813	rVV	342681	453478	7.64%	0.423%

LSC Area Percent Report

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Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

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-BF042716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.436	817	818	820	rBV	144490	128020	2.16%	0.119%
36	11.471	820	821	824	rVB2	51460	70857	1.19%	0.066%
37	11.528	824	826	830	rBV	270530	390861	6.59%	0.364%
38	11.676	837	839	843	rVB3	143584	216784	3.65%	0.202%
39	11.802	846	850	851	rBV	224783	338065	5.70%	0.315%
40	11.848	851	854	856	rBV2	116366	198630	3.35%	0.185%
41	11.985	863	866	870	rBV4	399999	597887	10.08%	0.557%
42	12.076	873	874	876	rBV2	53686	84777	1.43%	0.079%
43	12.179	881	883	885	rVV2	69453	69925	1.18%	0.065%
44	12.236	886	888	890	rVB2	99737	119203	2.01%	0.111%
45	12.351	896	898	899	rBV2	72372	128713	2.17%	0.120%
46	12.442	904	906	909	rBV	667043	898030	15.13%	0.837%
47	12.499	909	911	913	rVV	208502	250622	4.22%	0.234%
48	12.545	913	915	919	rVV3	46677	90408	1.52%	0.084%
49	12.659	922	925	928	rBV4	55657	118687	2.00%	0.111%
50	12.728	929	931	936	rVB2	195035	403263	6.80%	0.376%
51	12.888	942	945	947	rBV	2466684	2995328	50.48%	2.792%
52	12.934	947	949	952	rVB3	65827	97969	1.65%	0.091%
53	13.059	958	960	962	rBV3	65069	104321	1.76%	0.097%
54	13.185	967	971	974	rBV4	85688	254570	4.29%	0.237%
55	13.276	978	979	981	rVV2	258301	433327	7.30%	0.404%
56	13.311	981	982	983	rVV	542528	503939	8.49%	0.470%
57	13.402	987	990	992	rVB2	185901	359685	6.06%	0.335%
58	13.574	1003	1005	1008	rBV3	78465	121363	2.05%	0.113%
59	13.791	1021	1024	1028	rBV	490363	734277	12.37%	0.684%
60	13.859	1028	1030	1033	rVB	282845	260941	4.40%	0.243%
61	13.928	1033	1036	1041	rBV2	845213	1263952	21.30%	1.178%
62	14.145	1053	1055	1059	rVB	132479	209359	3.53%	0.195%
63	14.408	1076	1078	1081	rBV	1182515	1436366	24.20%	1.339%
64	14.705	1102	1104	1107	rVB	285281	342609	5.77%	0.319%
65	14.774	1107	1110	1112	rVB	1301205	1356198	22.85%	1.264%
66	14.911	1119	1122	1126	rBV2	275669	843537	14.21%	0.786%
67	14.979	1126	1128	1129	rVV	322675	525858	8.86%	0.490%
68	15.025	1129	1132	1139	rVB	4209403	5581484	94.06%	5.203%
69	15.254	1150	1152	1157	rVV3	287192	472275	7.96%	0.440%
70	15.334	1157	1159	1161	rVV	388981	539951	9.10%	0.503%
71	15.368	1161	1162	1164	rVB	233890	237547	4.00%	0.221%

LSC Area Percent Report

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Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

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-BF042716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.597	1180	1182	1186	rVB	175306	244959	4.13%	0.228%
73	15.677	1186	1189	1193	rVB2	306301	661498	11.15%	0.617%
74	15.780	1195	1198	1200	rBV	3228194	5036070	84.86%	4.694%
75	15.825	1200	1202	1206	rVB	373350	551783	9.30%	0.514%
76	15.974	1212	1215	1217	rBV	909827	1626855	27.41%	1.516%
77	16.020	1217	1219	1224	rVB2	1102799	2099899	35.39%	1.957%
78	16.728	1279	1281	1284	rVB2	275203	497214	8.38%	0.463%
79	16.797	1284	1287	1289	rBV	520983	1012740	17.07%	0.944%
80	16.843	1289	1291	1293	rBV2	187905	352889	5.95%	0.329%
81	17.003	1302	1305	1309	rVB3	302045	703788	11.86%	0.656%
82	17.254	1320	1327	1328	rBV2	1877779	5709978	96.22%	5.323%
83	17.288	1328	1330	1336	rVV	2294988	4957745	83.54%	4.621%
84	17.425	1339	1342	1348	rVV2	702484	1919724	32.35%	1.789%
85	17.528	1348	1351	1354	rVV3	308168	892214	15.03%	0.832%
86	17.654	1358	1362	1368	rVV	1437820	5270905	88.82%	4.913%
87	17.757	1368	1371	1375	rVB3	945514	2495557	42.05%	2.326%
88	17.883	1380	1382	1385	rVB2	201001	397335	6.70%	0.370%
89	17.985	1385	1391	1393	rBV	1313749	4447221	74.94%	4.146%
90	18.100	1398	1401	1404	rVV	448561	1196787	20.17%	1.116%
91	18.168	1404	1407	1413	rVB2	522639	1439085	24.25%	1.341%
92	18.431	1426	1430	1431	rBV2	176185	444300	7.49%	0.414%
93	18.957	1472	1476	1483	rVB	382932	1307341	22.03%	1.219%
94	19.128	1486	1491	1499	rVB	756923	2415925	40.71%	2.252%

Sum of corrected areas: 107278097

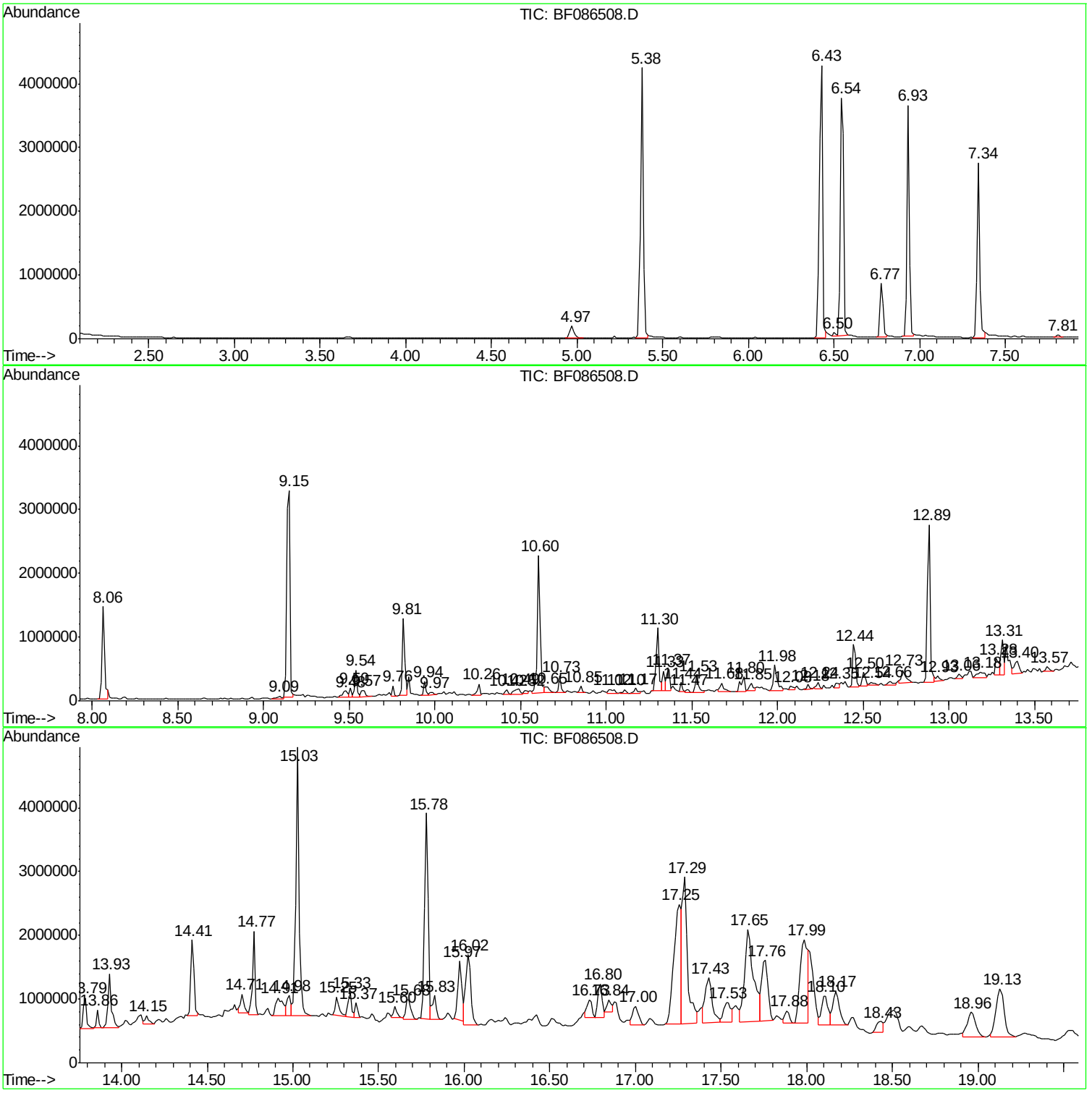
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.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\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

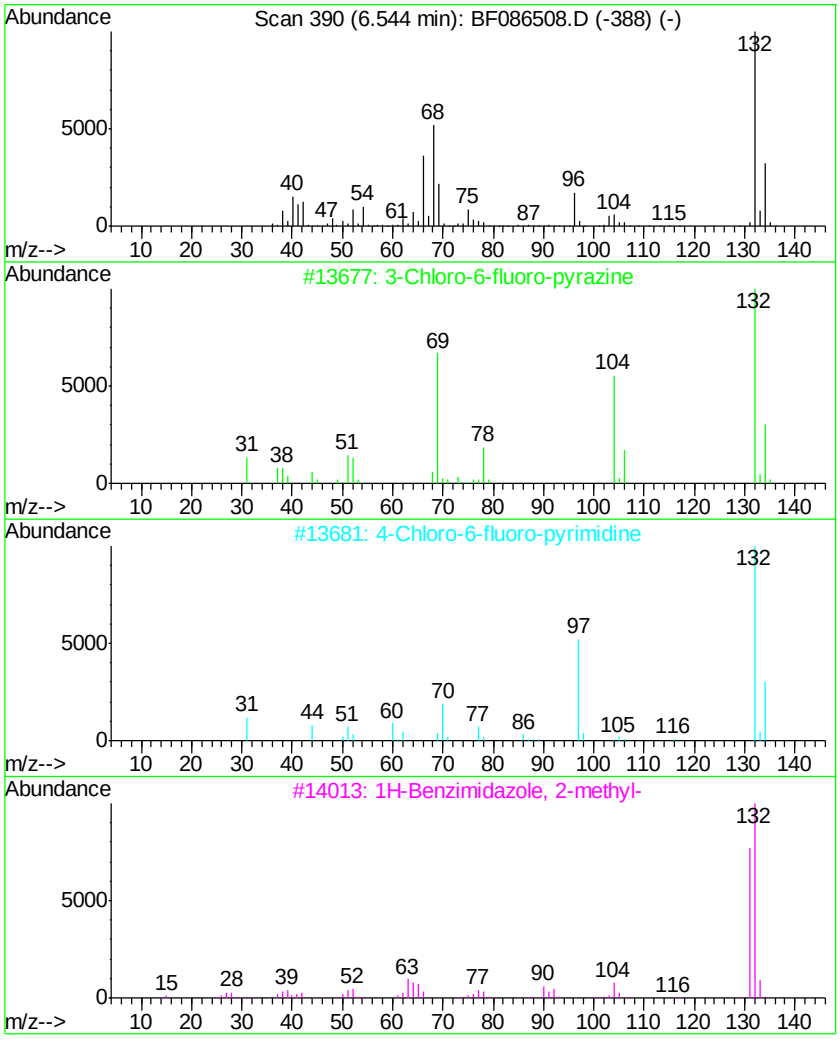
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

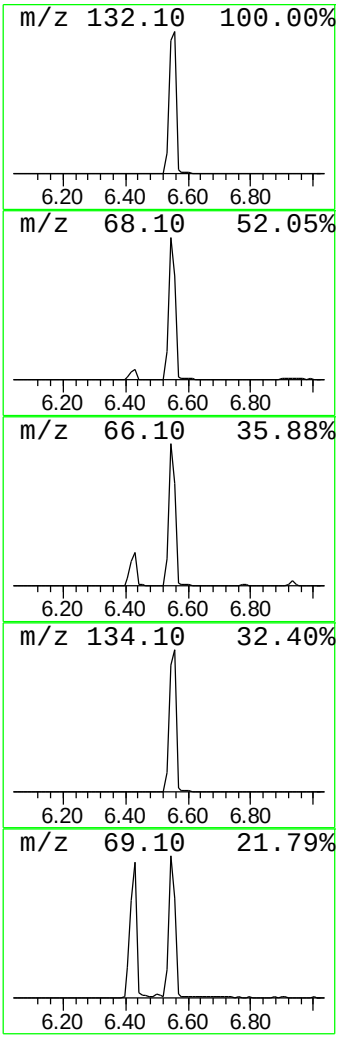
****

Peak Number 1 unknown6.54 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.54	103.27 ng	5249750	1,4-Dichlorobenzene-d4	6.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	22
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

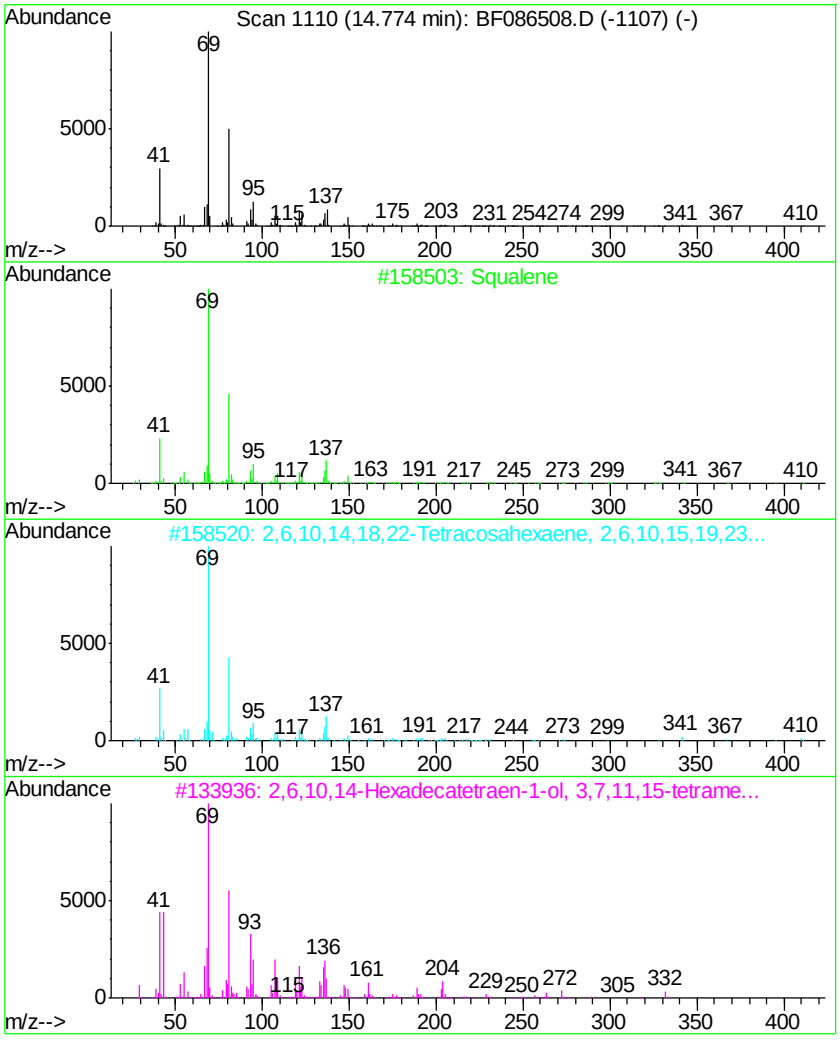
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

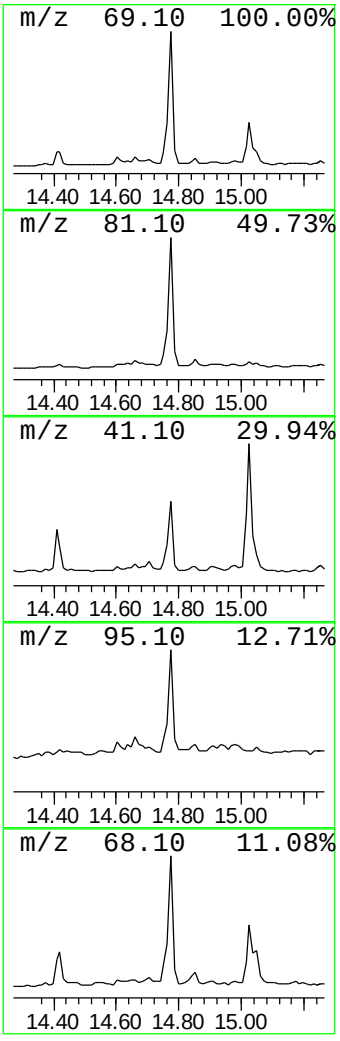
****

Peak Number 3 Squalene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	50.23 ng	1356200	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	91
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	90
3	2,6,10,14-Hexadecatetraen-1-ol, ...	332	C22H36O2	061691-98-3	78
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	264	C17H28O2	004128-17-0	72
5	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.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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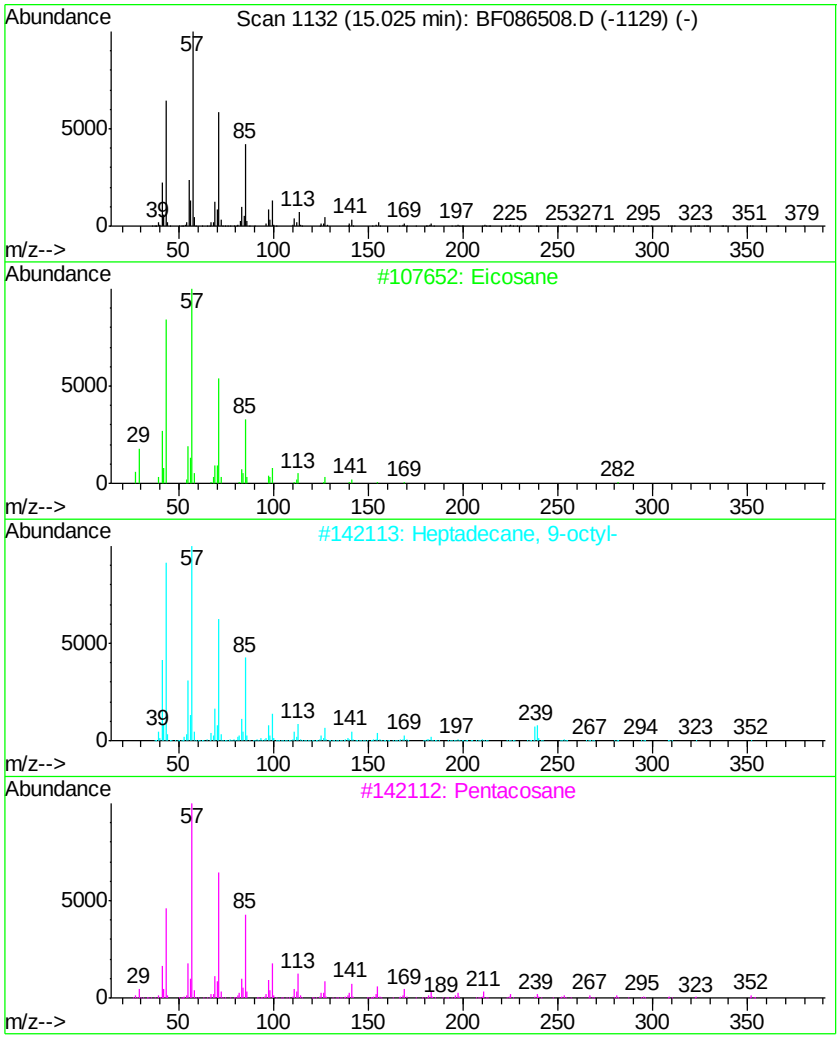
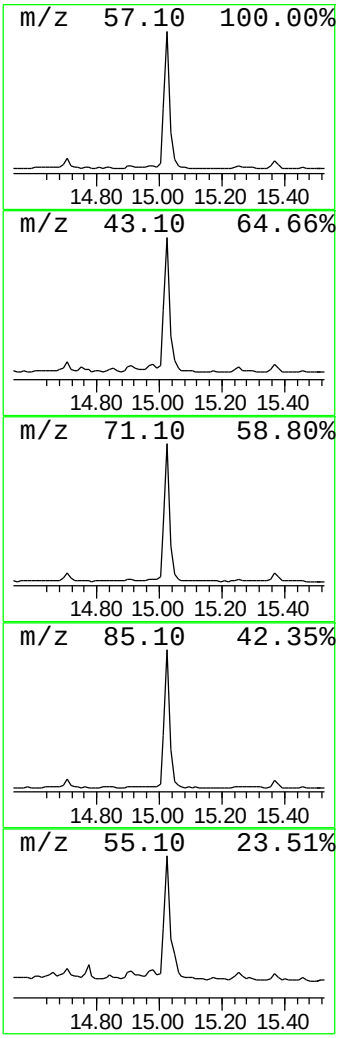
Peak Number 4 Eicosane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	206.74 ng	5581480	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	96
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	94
3	Pentacosane	352	C25H52	000629-99-2	92
4	Heptacosane	380	C27H56	000593-49-7	91
5	Octacosane	394	C28H58	000630-02-4	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.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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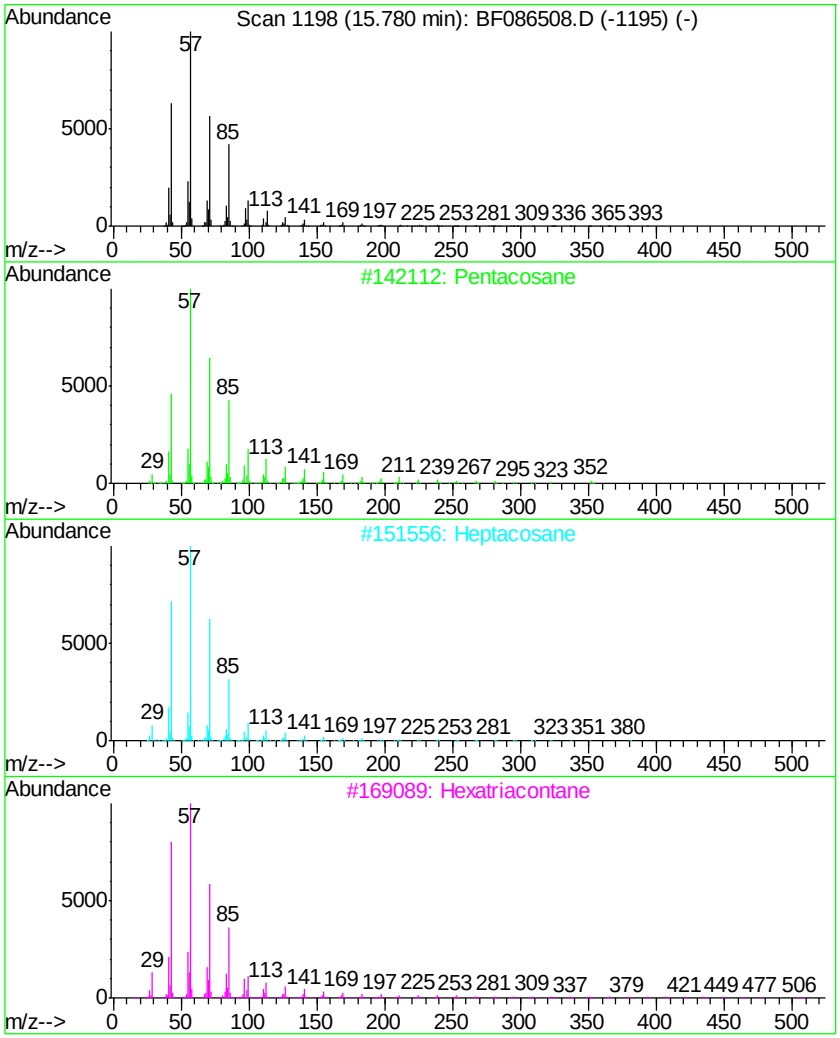
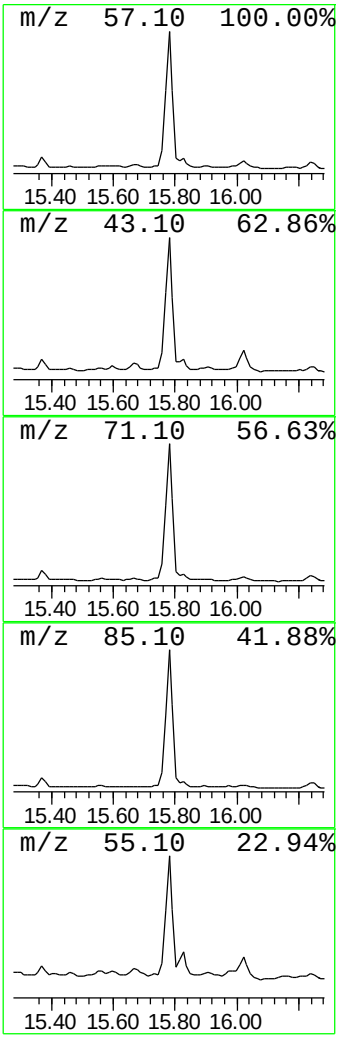
Peak Number 5 Pentacosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.78	186.54 ng	5036070	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	96
2	Heptacosane	380	C27H56	000593-49-7	91
3	Hexatriacontane	507	C36H74	000630-06-8	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Tetratriacontane	479	C34H70	014167-59-0	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.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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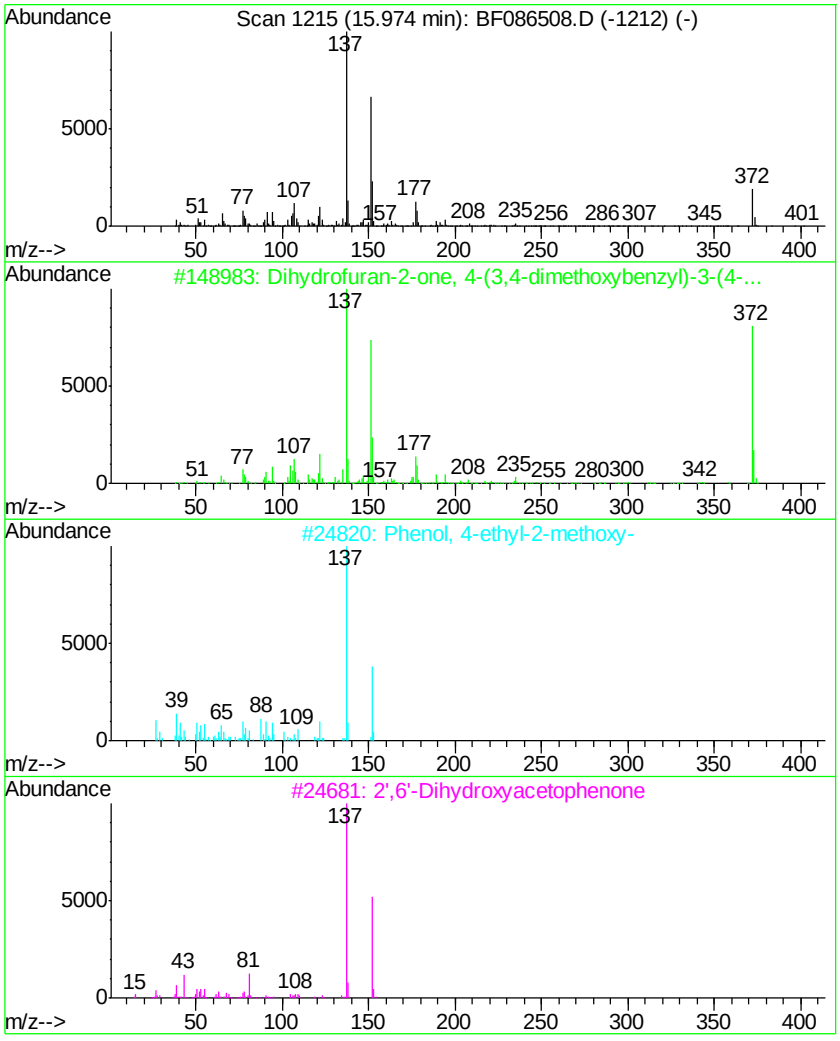
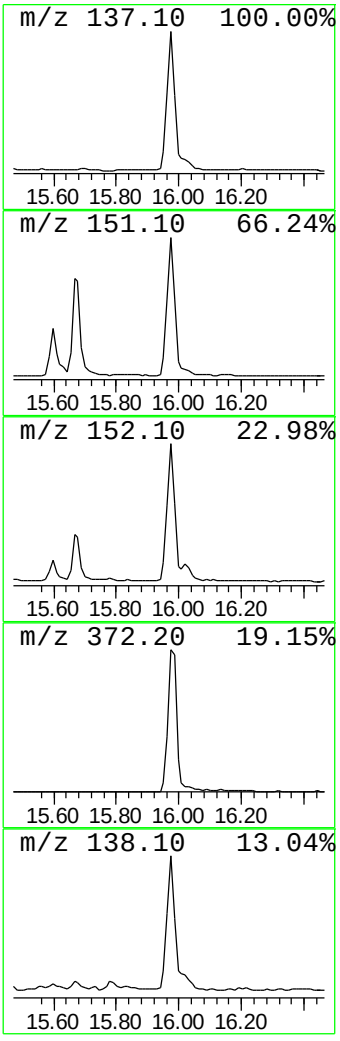
Peak Number 6 Dihydrofuran-2-one, 4-(3,4-... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	60.26 ng	1626860	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dihydrofuran-2-one, 4-(3,4-dimet...	372	C21H24O6	1000295-41-7	87
2	Phenol, 4-ethyl-2-methoxy-	152	C9H12O2	002785-89-9	49
3	2',6'-Dihydroxyacetophenone	152	C8H8O3	000699-83-2	43
4	5-Isopropyl-3,3-dimethyl-2-methy...	152	C10H16O	081250-44-4	43
5	L-4-Hydroxy-3-methoxyphenylalanine	211	C10H13NO4	000300-48-1	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.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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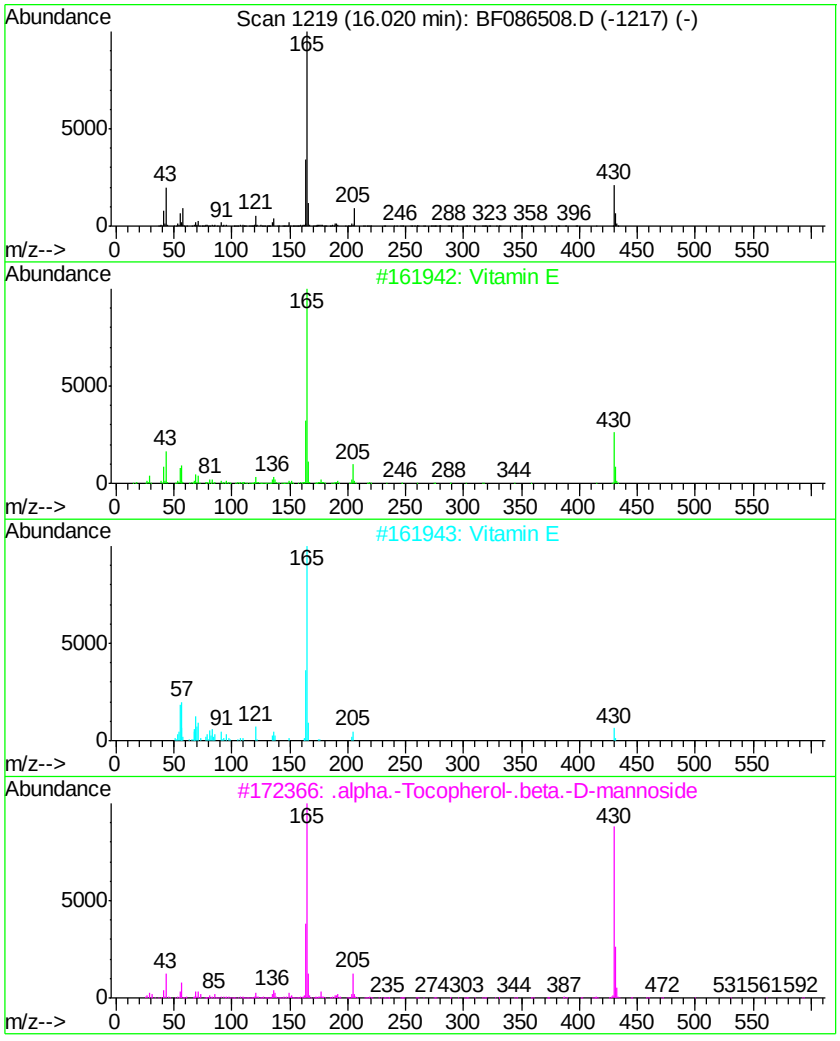
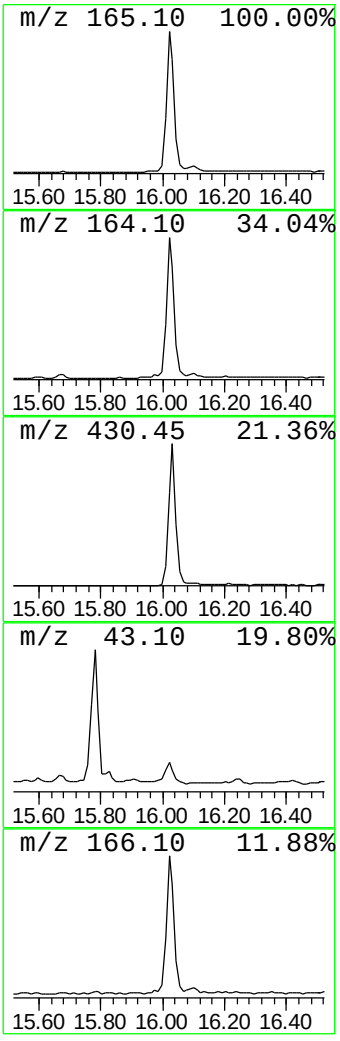
Peak Number 7 Vitamin E Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.02	77.78 ng	2099900	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Vitamin E	430	C29H50O2	010191-41-0	95
2	Vitamin E	430	C29H50O2	000059-02-9	91
3	.alpha.-Tocopherol-.beta.-D-mann...	592	C35H60O7	1000156-68-2	50
4	Benzenamine, 3-methoxy-2,4,6-tri...	165	C10H15NO	034874-88-9	50
5	Piperazine, 1-(3,4-dimethoxybenz...	430	C26H26N2O4	333756-87-9	42





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Operator : UM/SJ
Sample : H2764-04
Misc :
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ClientSampleId : IM-TOPSOIL-007

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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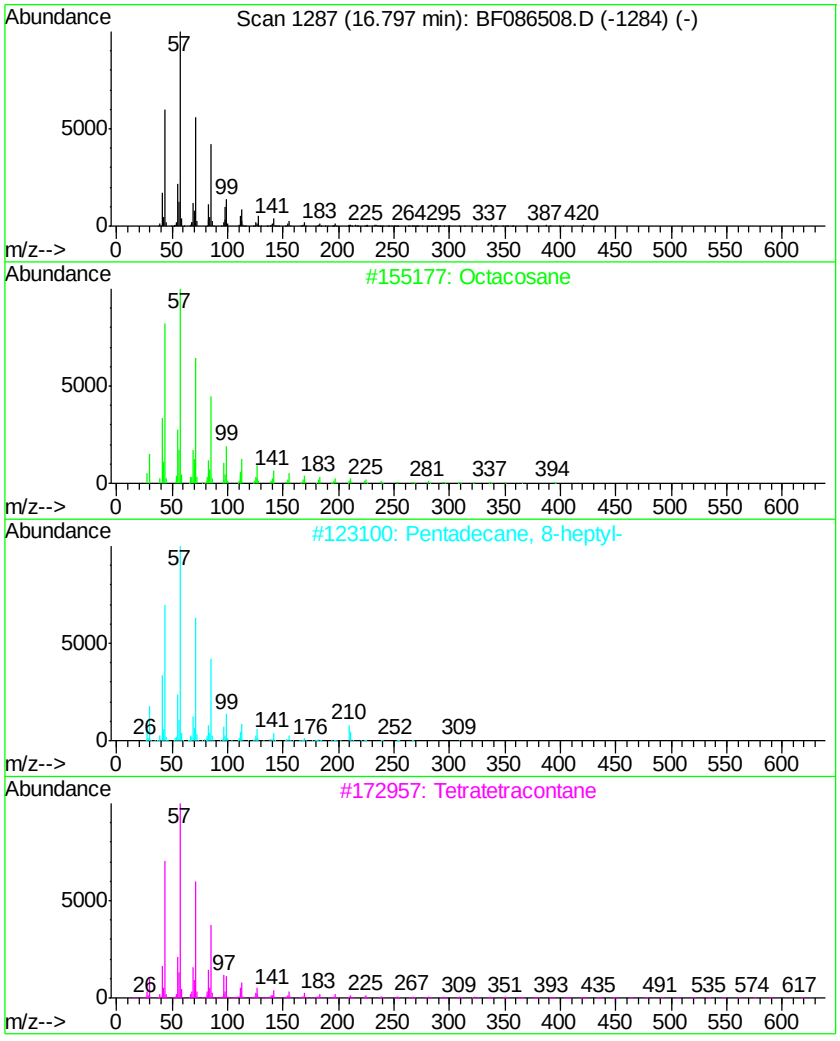
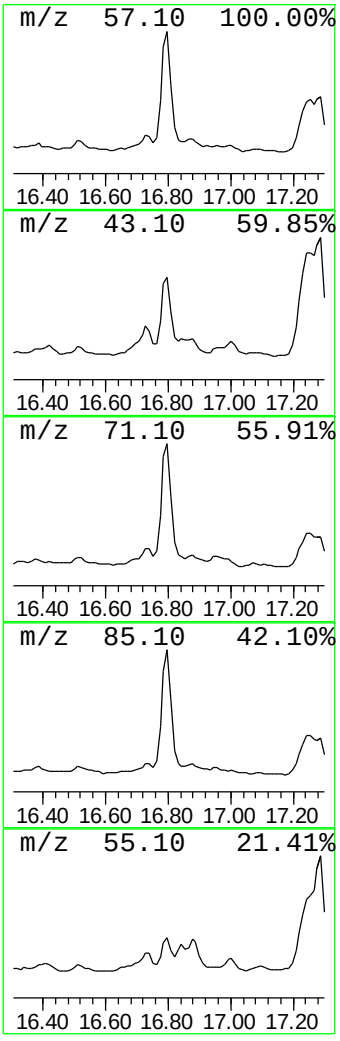
Peak Number 8 Octacosane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.80	37.51 ng	1012740	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	91
2	Pentadecane, 8-heptyl-	310	C22H46	071005-15-7	91
3	Tetratetracontane	619	C44H90	007098-22-8	91
4	Tetracosane	338	C24H50	000646-31-1	91
5	Heptacosane	380	C27H56	000593-49-7	90





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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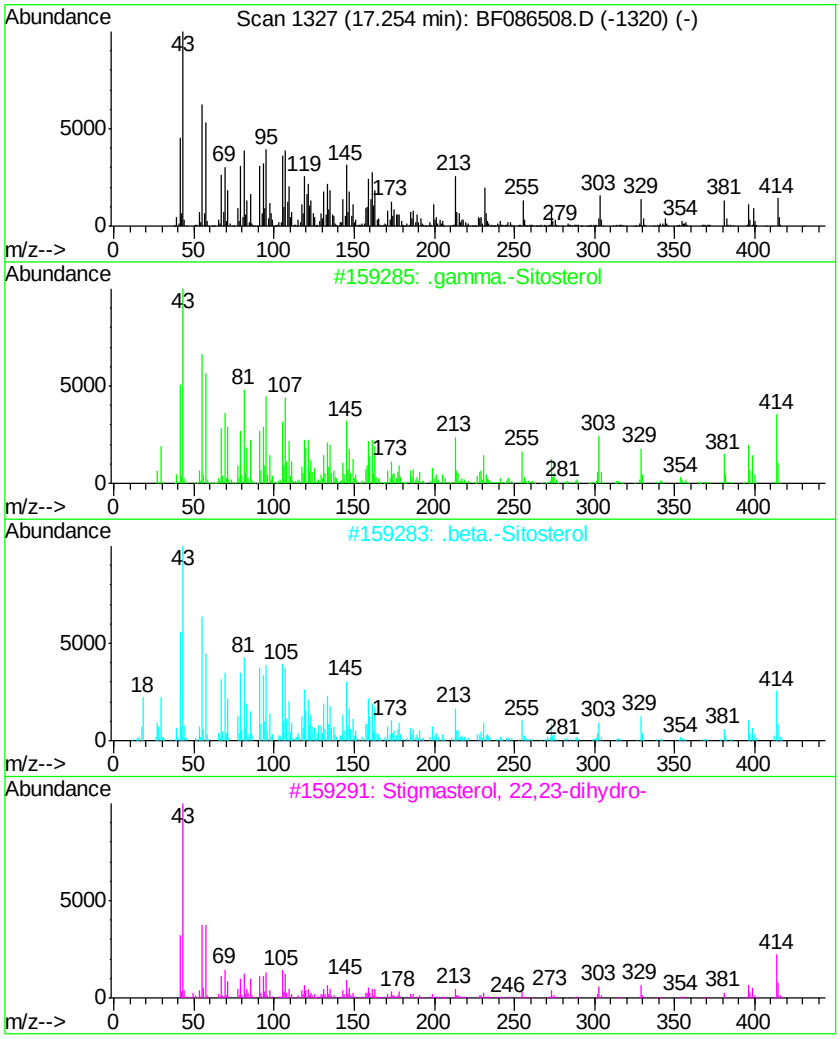
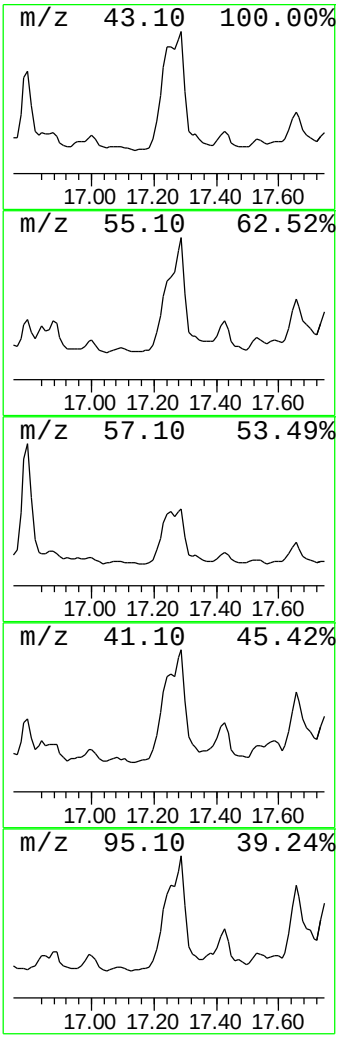
Peak Number 10 .gamma.-Sitosterol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	211.50 ng	5709980	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	Stigmasterol, 22,23-dihydro-	414	C29H50O	1000214-20-7	91
4	Cholest-5-ene, 3-methoxy-, (3.be...	400	C28H48O	001174-92-1	43
5	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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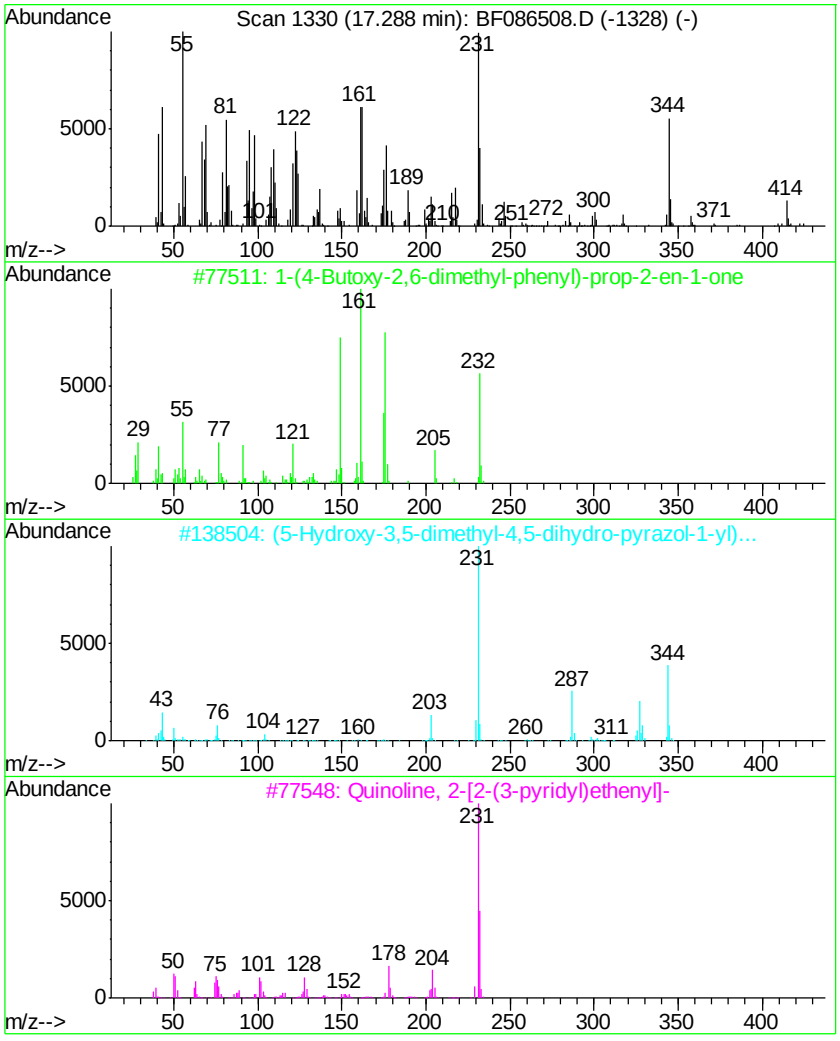
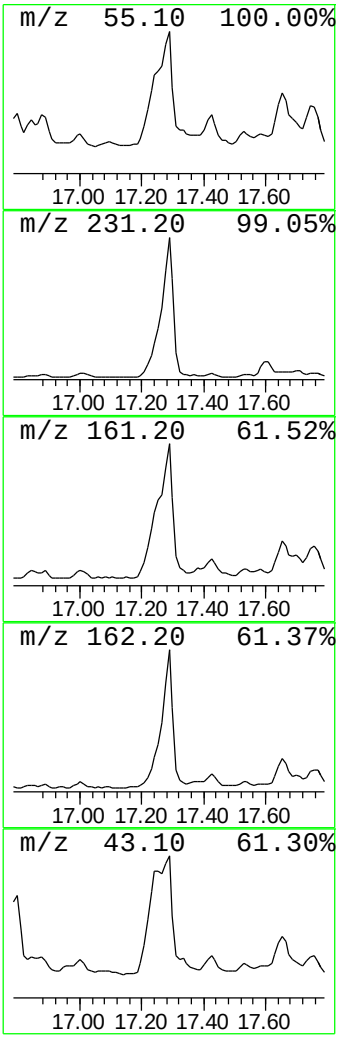
Peak Number 11 unknown17.29 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.29	183.64 ng	4957750	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4-Butoxy-2,6-dimethyl-phenyl)...	232	C15H20O2	1000193-49-5	20
2	(5-Hydroxy-3,5-dimethyl-4,5-dihy...	344	C12H13IN2O2	331868-93-0	14
3	Quinoline, 2-[2-(3-pyridyl)ethen...	232	C16H12N2	001586-51-2	14
4	1H-Indol-2(3H)-one, 3-aminomethyl-	162	C9H10N2O	1000262-27-9	11
5	Benzo[b]thiophene, 7-ethyl-2-met...	176	C11H12S	016587-44-3	11





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ClientSampleId : IM-TOPSOIL-007

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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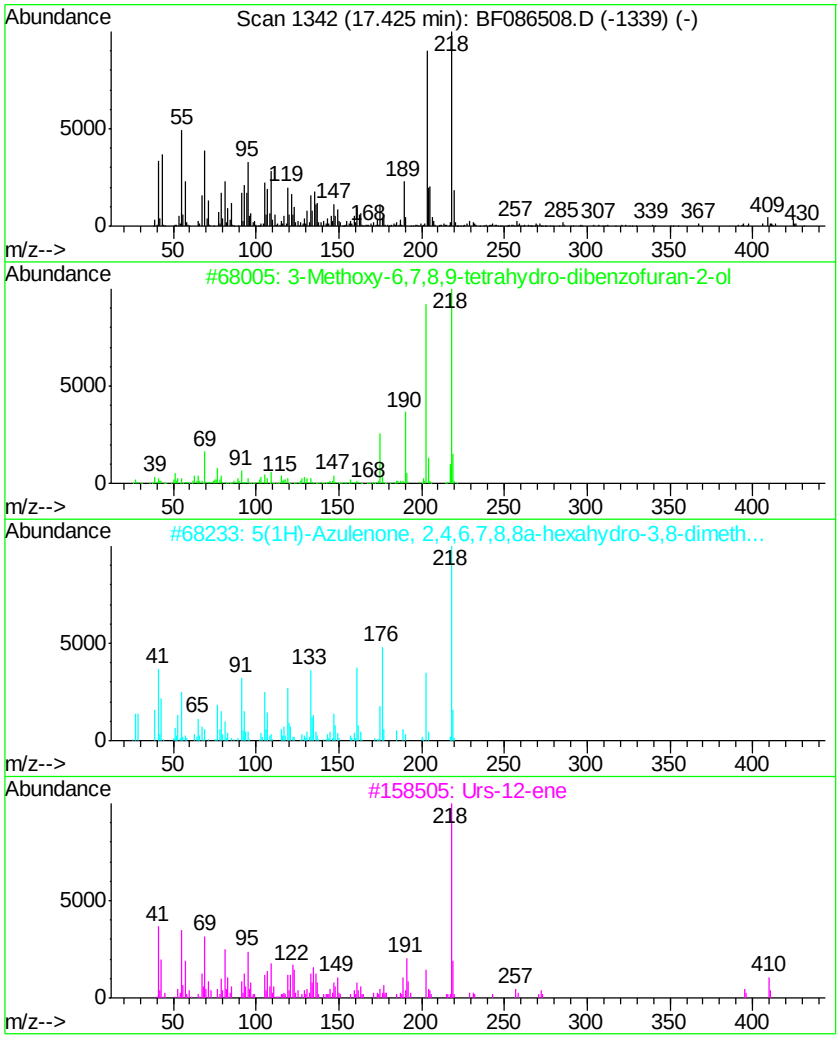
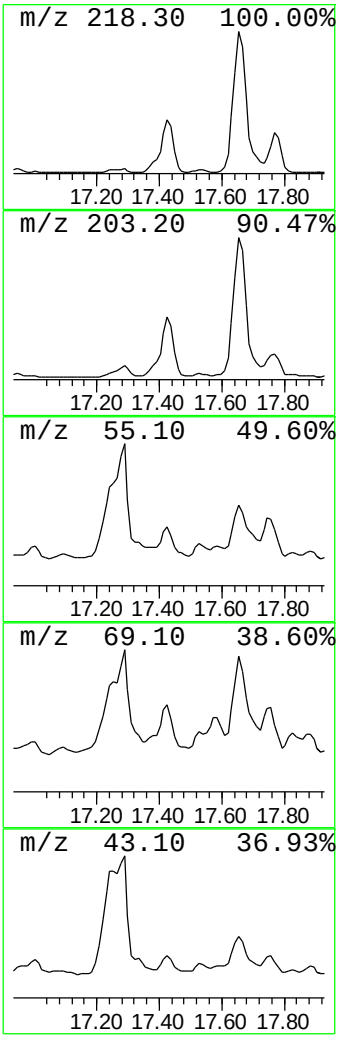
Peak Number 12 unknown17.43 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	71.11 ng	1919720	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methoxy-6,7,8,9-tetrahydro-dib...	218	C13H14O3	1000186-57-9	47
2	5(1H)-Azulenone, 2,4,6,7,8,8a-he...	218	C15H22O	006754-66-1	38
3	Urs-12-ene	410	C30H50	000464-97-1	38
4	Anthracene, 9-(2-propenyl)-	218	C17H14	023707-65-5	35
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	30





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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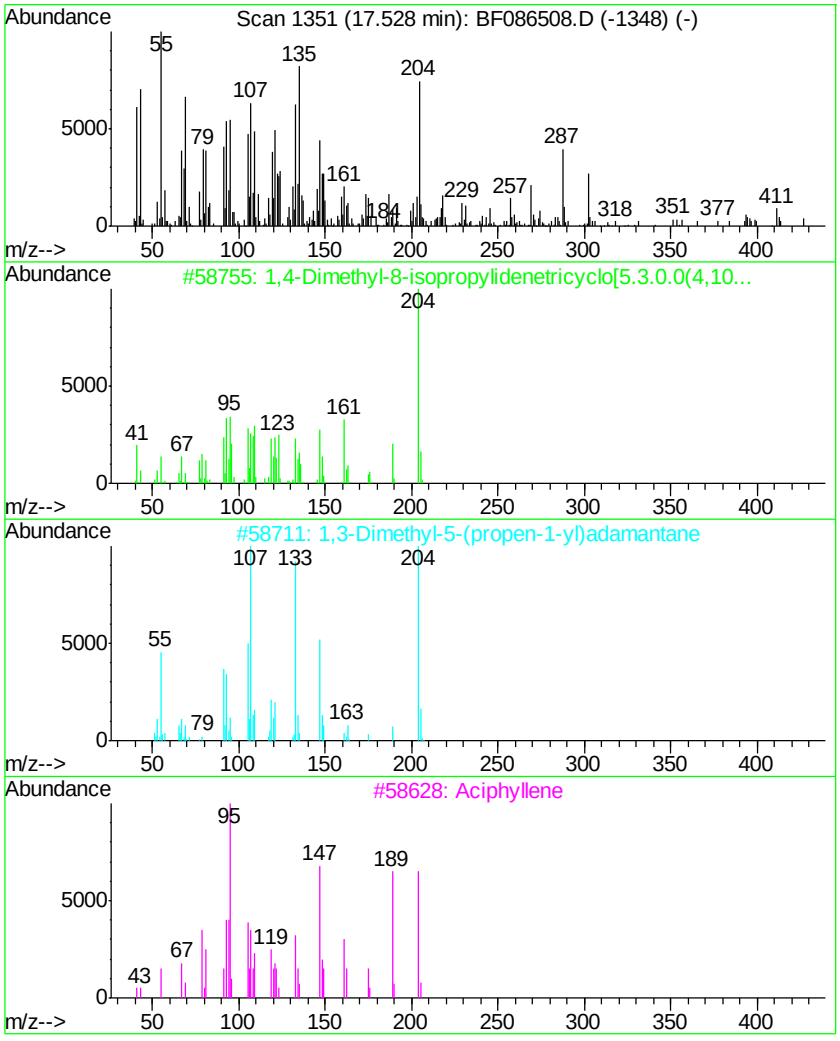
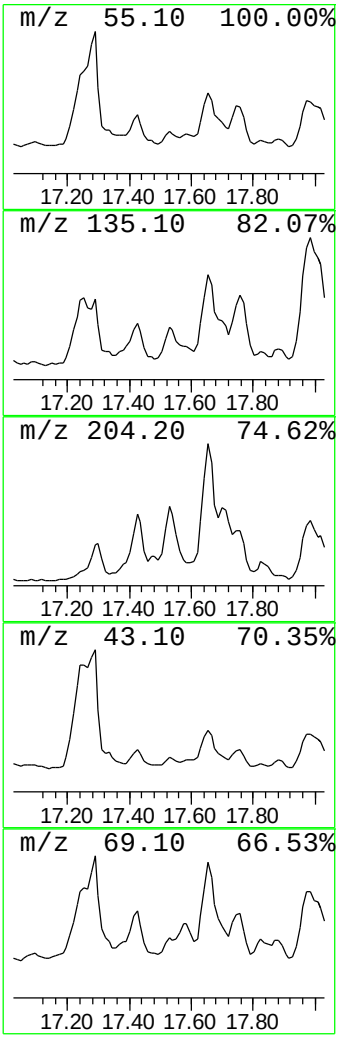
Peak Number 13 1,4-Dimethyl-8-isopropylide... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.53	33.05 ng	892214	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	58
2	1,3-Dimethyl-5-(propen-1-yl)adam...	204	C15H24	057040-48-9	50
3	Aciphyllene	204	C15H24	087745-31-1	50
4	Eudesma-4(14),11-diene	204	C15H24	1000152-04-3	45
5	7-Octylidenebicyclo[4.1.0]heptane	206	C15H26	082253-11-0	45





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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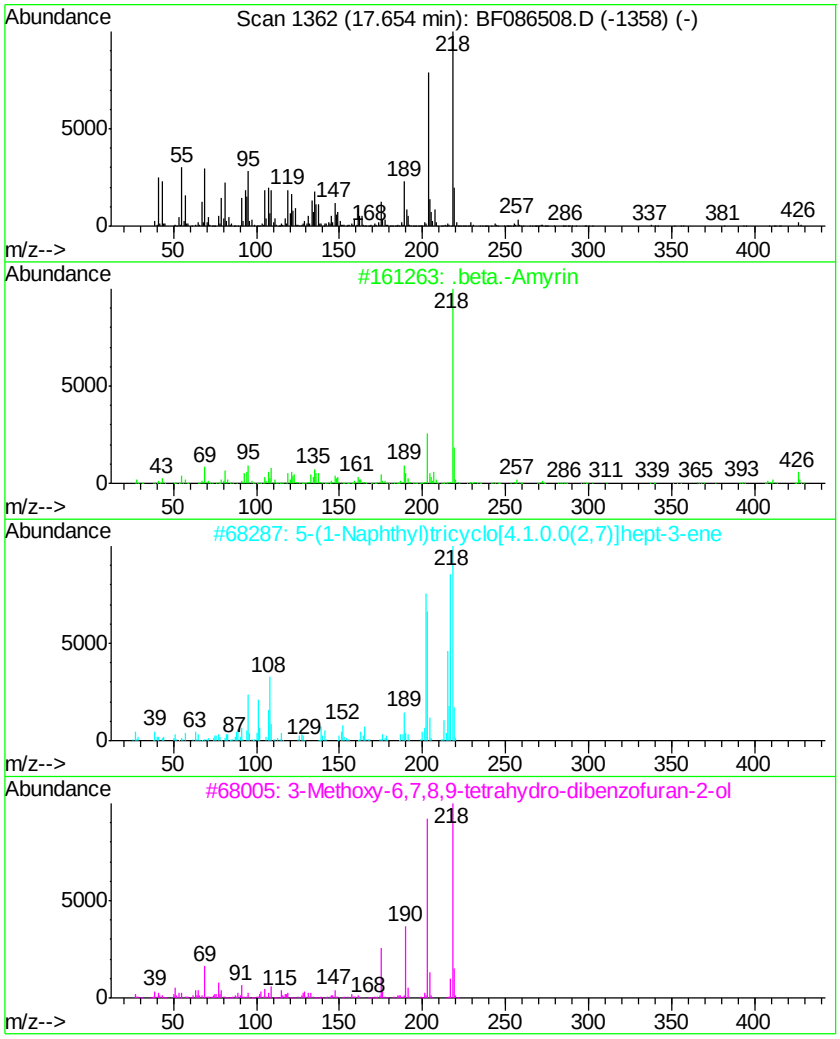
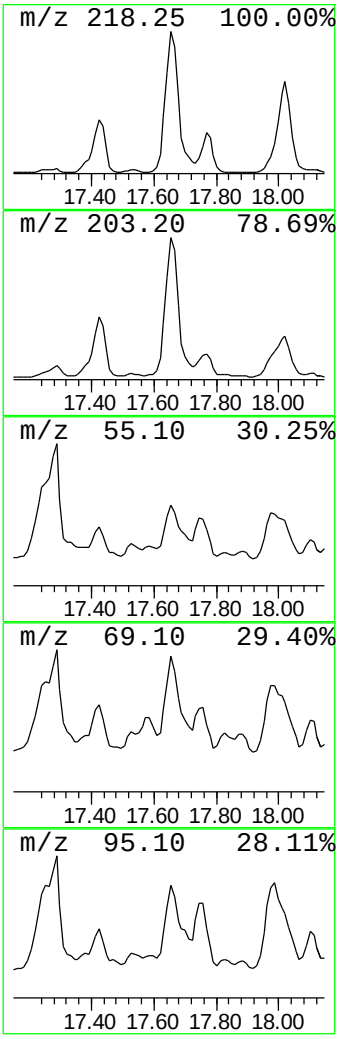
Peak Number 14 .beta.-Amyrin Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.65	195.24 ng	5270910	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Amyrin	426	C30H50O	000559-70-6	91
2	5-(1-Naphthyl)tricyclo[4.1.0.0(2...	218	C17H14	107729-05-5	80
3	3-Methoxy-6,7,8,9-tetrahydro-dib...	218	C13H14O3	1000186-57-9	58
4	2H-[1,2]Dioxeto[3',4':4,5]furo[3...	260	C14H12O5	129833-00-7	53
5	4,4,9,9-Tetramethyl-4,9-disilatr...	218	C12H18Si2	1000280-67-7	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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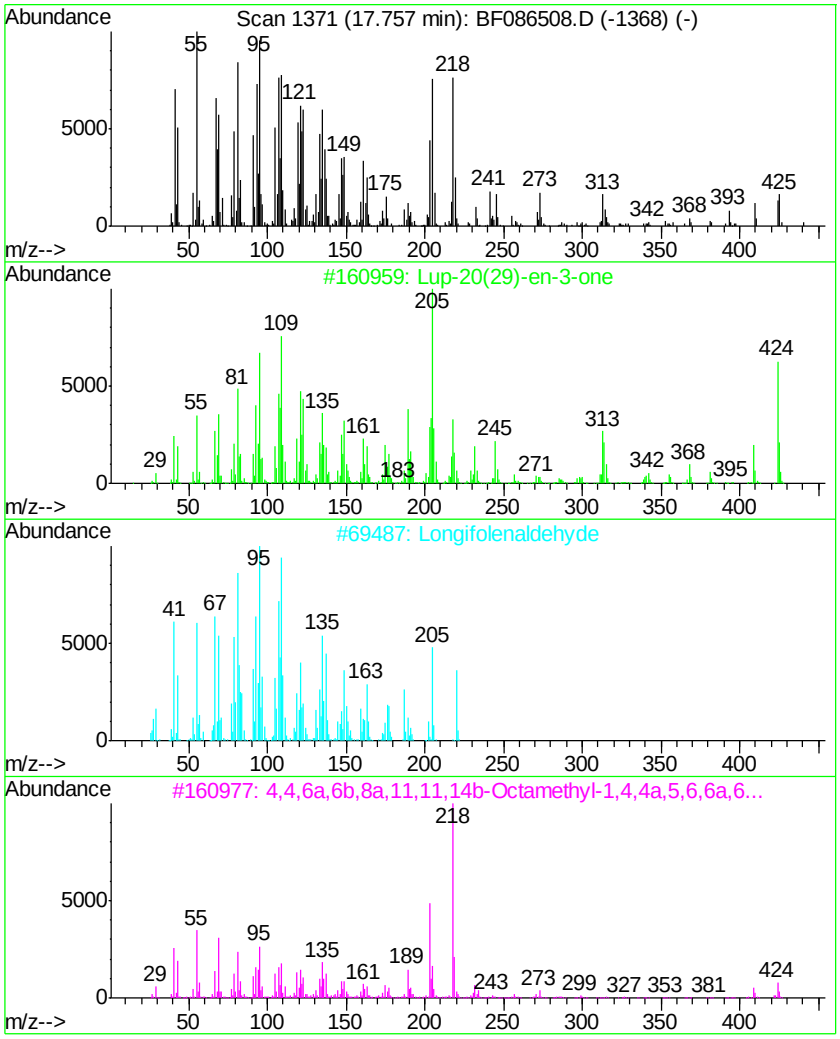
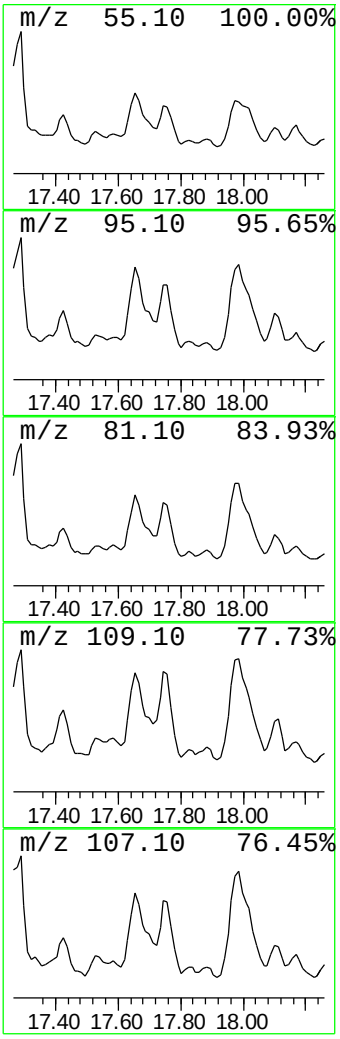
Peak Number 15 Lup-20(29)-en-3-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.76	92.44 ng	2495560	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lup-20(29)-en-3-one	424	C30H48O	001617-70-5	70
2	Longifolenaldehyde	220	C15H24O	019890-84-7	43
3	4,4,6a,6b,8a,11,11,14b-Octamethy...	424	C30H48O	1000194-62-4	38
4	Isoquinoline, 1-(2-methylphenyl)-	219	C16H13N	022826-52-4	35
5	D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	30





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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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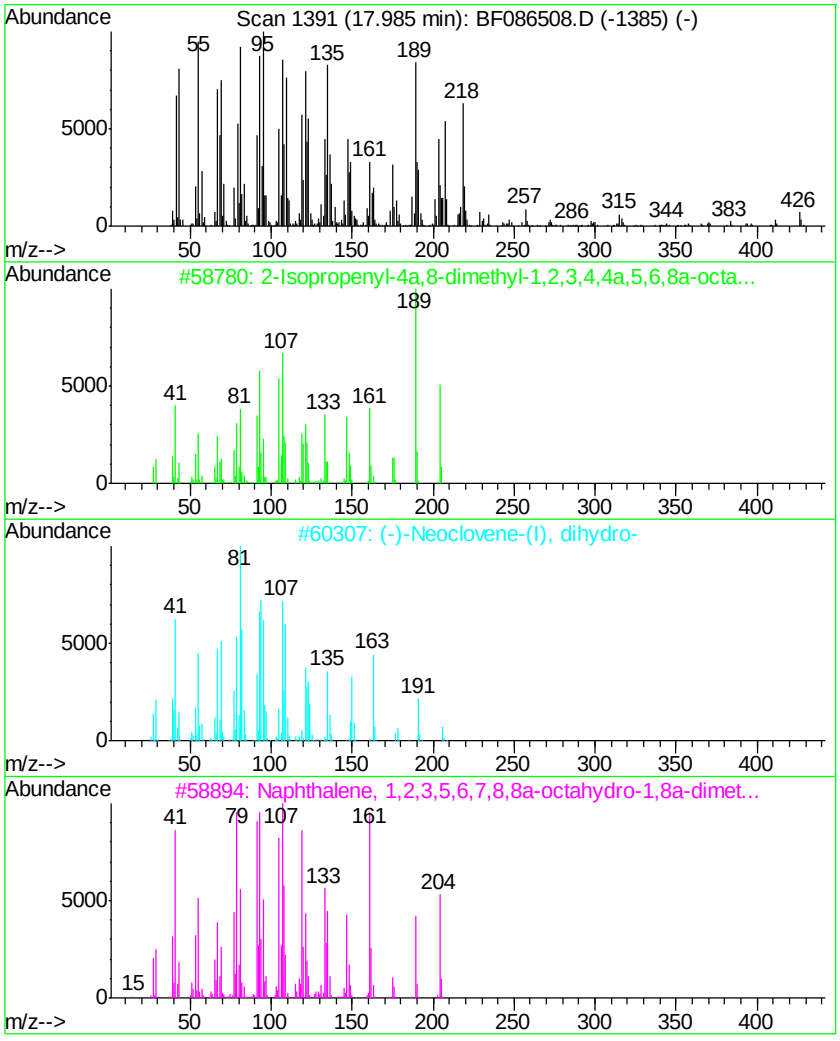
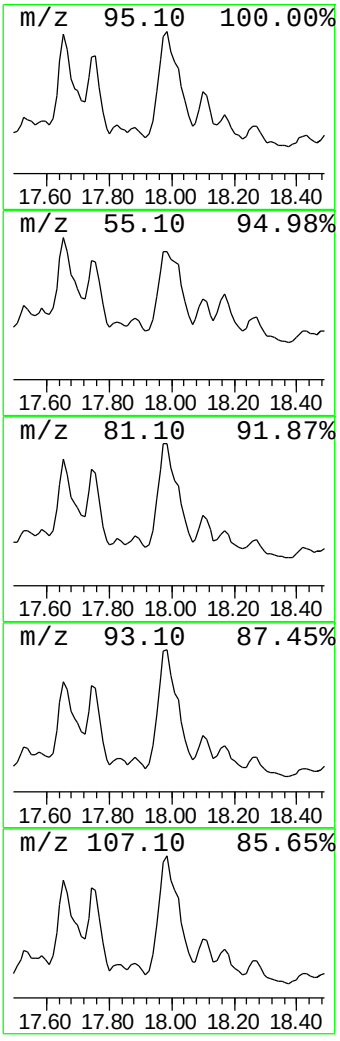
Peak Number 16 2-Isopropenyl-4a,8-dimethyl... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	164.73 ng	4447220	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	72
2	(-)-Neoclovene-(I), dihydro-	206	C15H26	1000152-82-1	50
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	010219-75-7	44
4	4,6,6-Trimethyl-2-(3-methylbuta-...	218	C15H22O	1000190-22-2	42
5	1-Naphthalenecarboxylic acid, de...	316	C21H32O2	001235-39-8	42





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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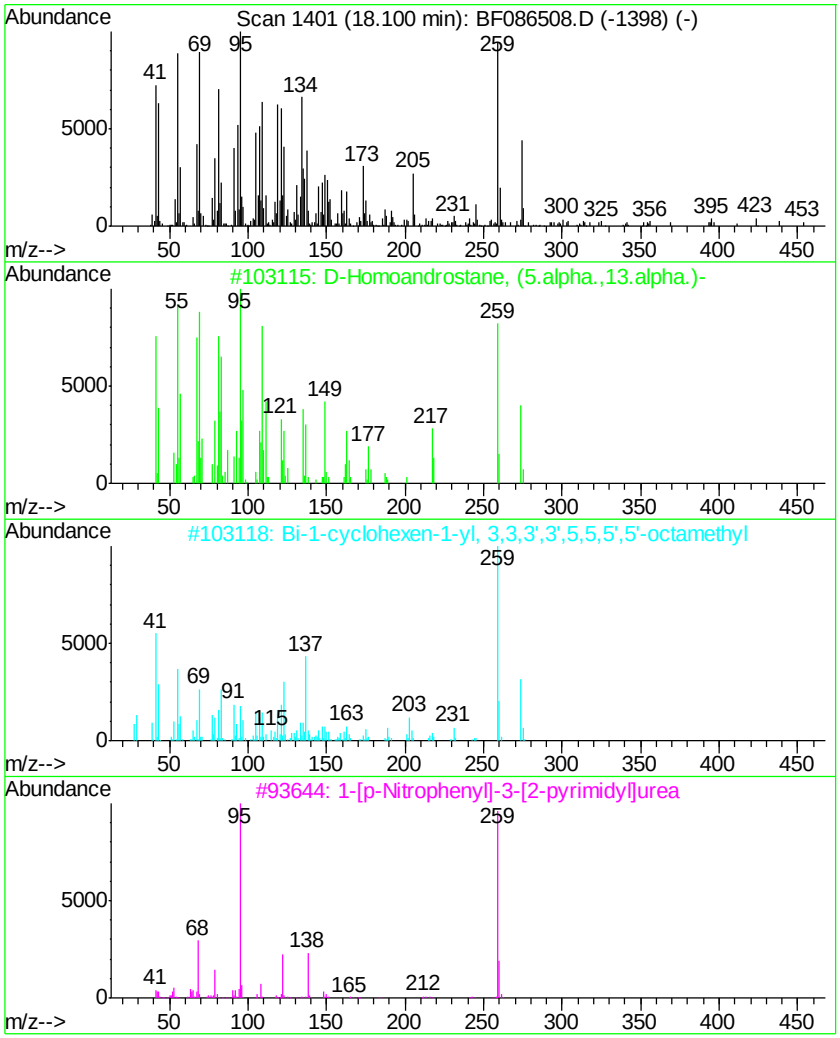
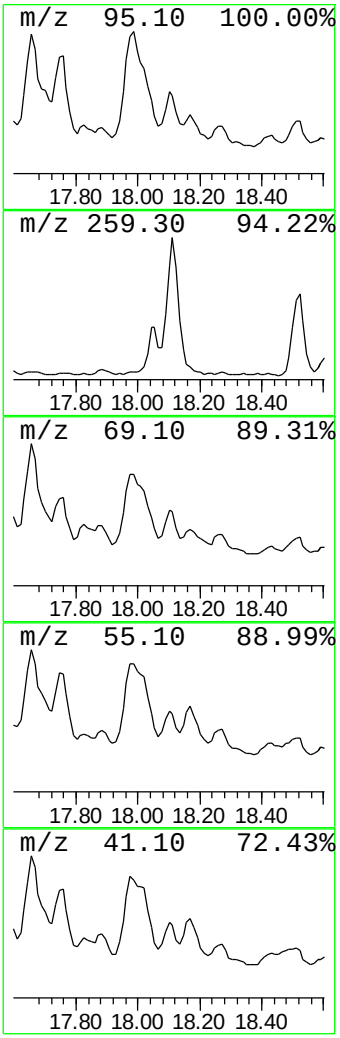
Peak Number 17 D-Homoandrostane, (5.alpha.... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	44.33 ng	1196790	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Homoandrostane, (5.alpha.,13.a...	274	C20H34	054482-31-4	50
2	Bi-1-cyclohexen-1-yl, 3,3,3',3',...	274	C20H34	076993-52-7	38
3	1-[p-Nitrophenyl]-3-[2-pyrimidyl...	259	C11H9N5O3	023656-31-7	30
4	Androstan-6-one, (5.alpha.)-	274	C19H30O	003676-06-0	30
5	Propanamide, N-(1-ethyl-1,2,3,4-...	274	C17H26N2O	063134-09-8	18





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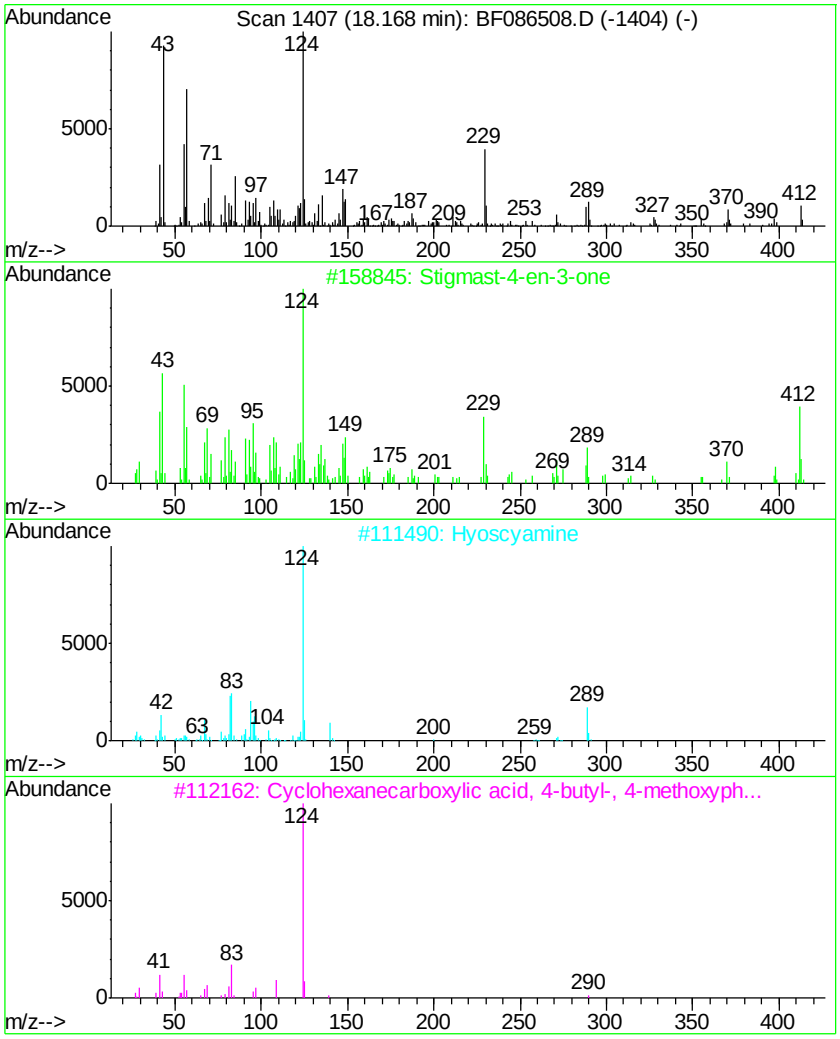
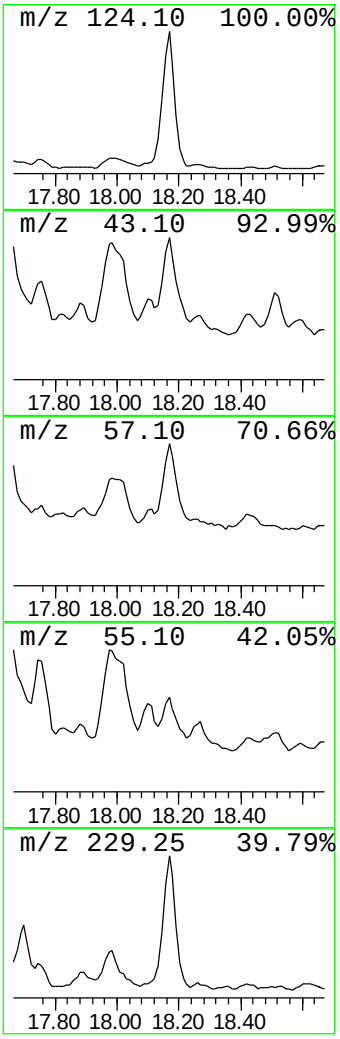
Peak Number 18 Stigmast-4-en-3-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	53.30 ng	1439090	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	78
2	Hyoscyamine	289	C17H23NO3	000101-31-5	41
3	Cyclohexanecarboxylic acid, 4-bu...	290	C18H26O3	067679-55-4	38
4	Testosterone	288	C19H28O2	000058-22-0	38
5	Pregn-4-ene-3,20-dione, (9.beta....	314	C21H30O2	002755-10-4	35





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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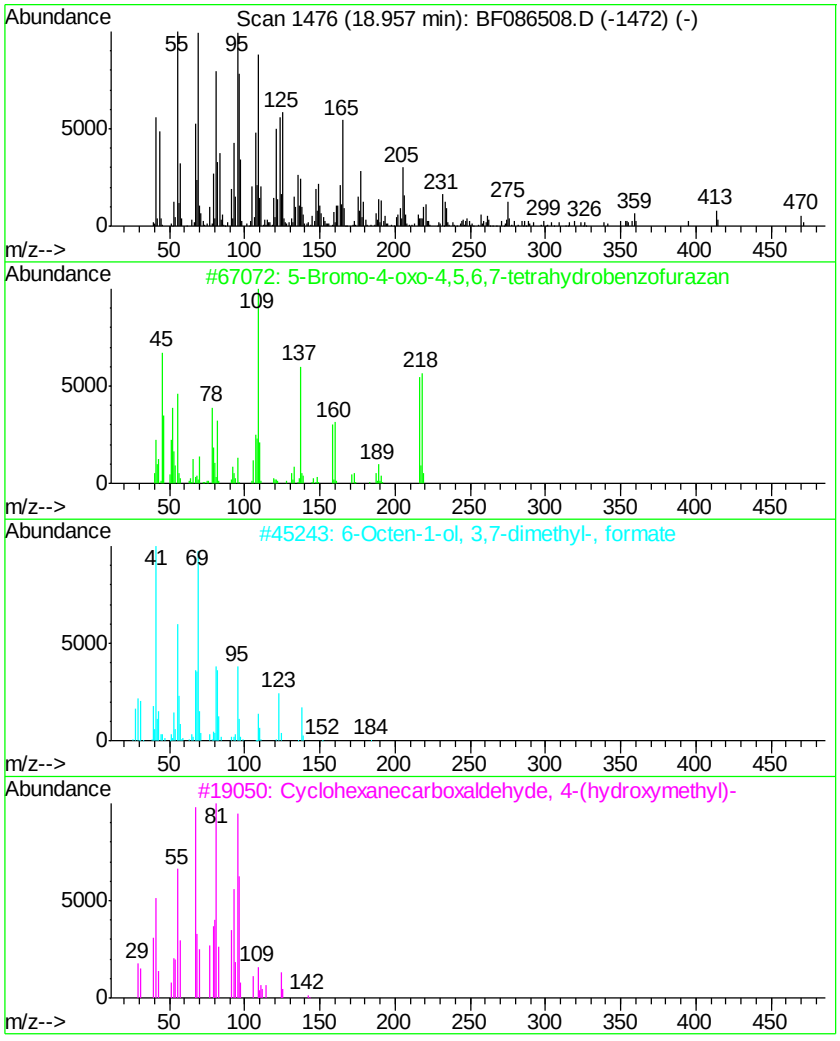
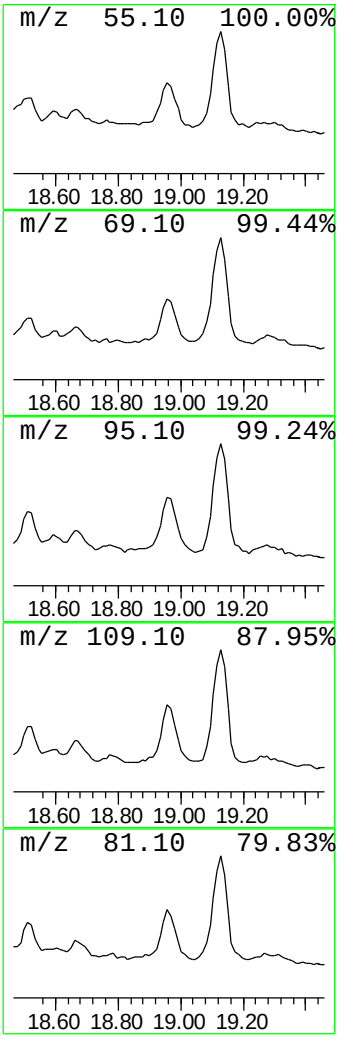
Peak Number 19 5-Bromo-4-oxo-4,5,6,7-tetra... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	48.42 ng	1307340	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	59
2	6-Octen-1-ol, 3,7-dimethyl-, for...	184	C11H20O2	000105-85-1	30
3	Cyclohexanecarboxaldehyde, 4-(hy...	142	C8H14O2	092385-32-5	25
4	2(1H)-Naphthalenone, 4a,5,6,7,8,...	220	C15H24O	017408-66-1	25
5	Undec-10-ynoic acid (furan-2-ylm...	261	C16H23NO2	332167-72-3	25





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

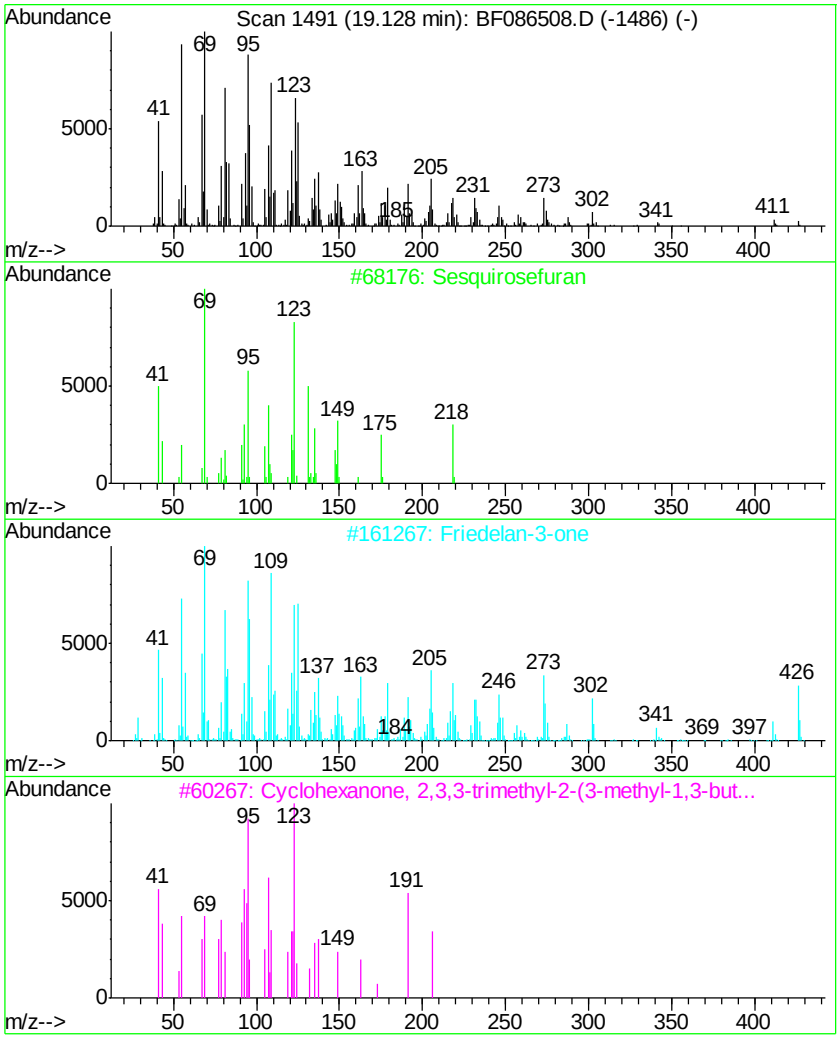
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

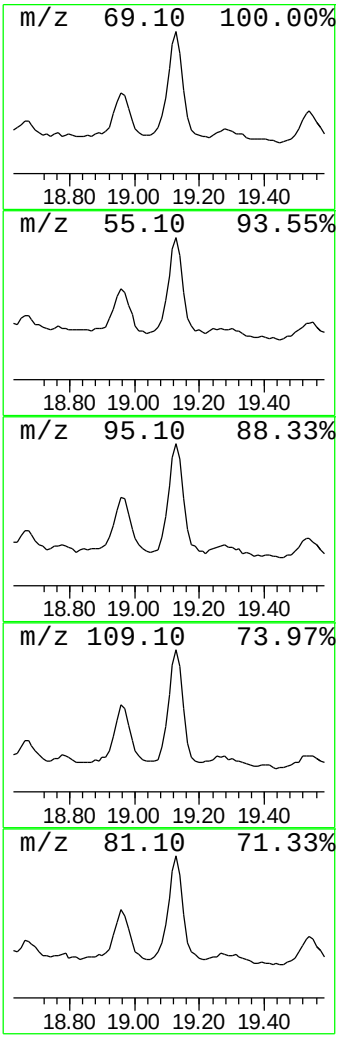
****

Peak Number 20 Sesquirosefuran Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	89.49 ng	2415930	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sesquirosefuran	218	C15H22O	039007-93-7	60
2	Friedelan-3-one	426	C30H50O	000559-74-0	52
3	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	46
4	2,3,3-Trimethyl-2-(3-methyl-buta...	206	C14H22O	1000193-60-6	46
5	Tridecanedial	212	C13H24O2	063521-76-6	44





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042916\
Data File : BF086508.D
Acq On : 29 Apr 2016 22:51
Operator : UM/SJ
Sample : H2764-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : IM-TOPSOIL-007

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.54	6.54	103.3	ng	5249750	1	6.77	1016740	20.0
Squalene	14.77	50.2	ng	1356200	6	15.33	539951	20.0
Eicosane	15.03	206.7	ng	5581480	6	15.33	539951	20.0
Pentacosane	15.78	186.5	ng	5036070	6	15.33	539951	20.0
Dihydrofuran-2-on...	15.97	60.3	ng	1626860	6	15.33	539951	20.0
Vitamin E	16.02	77.8	ng	2099900	6	15.33	539951	20.0
Octacosane	16.80	37.5	ng	1012740	6	15.33	539951	20.0
.gamma.-Sitosterol	17.25	211.5	ng	5709980	6	15.33	539951	20.0
unknown17.29	17.29	183.6	ng	4957750	6	15.33	539951	20.0
unknown17.43	17.43	71.1	ng	1919720	6	15.33	539951	20.0
1,4-Dimethyl-8-is...	17.53	33.0	ng	892214	6	15.33	539951	20.0
.beta.-Amyrin	17.65	195.2	ng	5270910	6	15.33	539951	20.0
Lup-20(29)-en-3-one	17.76	92.4	ng	2495560	6	15.33	539951	20.0
2-Isopropenyl-4a,...	17.99	164.7	ng	4447220	6	15.33	539951	20.0
D-Homoandrostane,...	18.10	44.3	ng	1196790	6	15.33	539951	20.0
Stigmast-4-en-3-one	18.17	53.3	ng	1439090	6	15.33	539951	20.0
5-Bromo-4-oxo-4,5...	18.96	48.4	ng	1307340	6	15.33	539951	20.0
Sesquirosefuran	19.13	89.5	ng	2415930	6	15.33	539951	20.0