LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

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-BF043015.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	1.484	24	26	29	rVB	1191574	1577033	33.55%	5.530%
2	1.633	37	39	49	rVB	134726	277817	5.91%	0.974%
3	1.770	49	51	53	rVV	103424	151716	3.23%	0.532%
4	1.816	53	55	60	rVV	90305	156989	3.34%	0.551%
5	1.896	60	62	102	rVB	2582402	4701059	100.00%	16.485%
6	5.644	387	390	392	rVB	551353	633323	13.47%	2.221%
7	6.890	497	499	502	rBV	704847	697870	14.84%	2.447%
8	7.050	511	513	516	rBV	645620	709181	15.09%	2.487%
9	7.347	537	539	541	rBV	496196	436169	9.28%	1.530%
10	7.530	553	555	558	rVB	542718	517036	11.00%	1.813%
11	8.033	597	599	602	rBV	502514	427406	9.09%	1.499%
12	8.925	674	677	678	rBV	647096	625898	13.31%	2.195%
13	10.262	792	794	797	rBV	684943	866069	18.42%	3.037%
14	11.096	865	867	869	rBV	681658	708222	15.07%	2.484%
15	11.142	869	871	873	rVB	56860	57486	1.22%	0.202%
16	11.782	925	927	929	rVB	67312	64308	1.37%	0.226%
17	11.999	943	946	948	rBV	47397	57696	1.23%	0.202%
18	12.079	950	953	955	rBV	574766	583601	12.41%	2.047%
19	12.948	1026	1029	1030	rBV	772709	793428	16.88%	2.782%
20	12.971	1030	1031	1034	rVV	555513	586752	12.48%	2.058%
21	13.039	1034	1037	1039	rVB	167027	161111	3.43%	0.565%
22	13.245	1053	1055	1056	rBV	45844	51219	1.09%	0.180%
23	13.577	1080	1084	1085	rBV	77351	78910	1.68%	0.277%
24	13.611	1085	1087	1089	rVB	111116	111275	2.37%	0.390%
25	13.668	1089	1092	1093	rBV	50446	55925	1.19%	0.196%
26	13.714	1093	1096	1097	rBV2	104108	147845	3.14%	0.518%
27	13.954	1115	1117	1121	rVB2	57246	109080	2.32%	0.383%
28	14.137	1129	1133	1135	rBV	27452	47499	1.01%	0.167%
29	14.262	1140	1144	1146	rBV	57987	81594	1.74%	0.286%
30	14.308	1146	1148	1151	rVV2	31812	55131	1.17%	0.193%
31	14.365	1151	1153	1156	rVB3	38603	71255	1.52%	0.250%
32	14.457	1158	1161	1163	rBV	1026913	1015160	21.59%	3.560%
33	14.640	1173	1177	1178	rBV2	36211	52963	1.13%	0.186%
34	14.731	1182	1185	1188	rBV2	727892	1042943	22.19%	3.657%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

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-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.800	1190	1191	1195	rVB2	67812	93112	1.98%	0.327%
36	14.891	1195	1199	1201	rBV	50467	58476	1.24%	0.205%
37	14.937	1201	1203	1206	rVB	823633	1034388	22.00%	3.627%
38	15.017	1206	1210	1212	rBV3	45953	83943	1.79%	0.294%
39	15.120	1215	1219	1220	rBV2	57568	132719	2.82%	0.465%
40	15.154	1220	1222	1224	rVB	134269	151001	3.21%	0.530%
41	15.234	1228	1229	1231	rBV	70337	93505	1.99%	0.328%
42	15.280	1231	1233	1235	rBV	113324	139906	2.98%	0.491%
43	15.394	1241	1243	1245	rBV	46841	53626	1.14%	0.188%
44	15.440	1245	1247	1248	rVV	44520	49828	1.06%	0.175%
45	15.668	1262	1267	1268	rBV3	32441	65835	1.40%	0.231%
46	15.794	1275	1278	1282	rBV2	66775	101822	2.17%	0.357%
47	15.943	1288	1291	1293	rBV2	77753	138411	2.94%	0.485%
48	15.977	1293	1294	1297	rVV2	57404	126534	2.69%	0.444%
49	16.068	1300	1302	1305	rVB	64418	86534	1.84%	0.303%
50	16.137	1305	1308	1315	rBV4	121834	264420	5.62%	0.927%
51	16.274	1316	1320	1321	rVV2	922812	1624587	34.56%	5.697%
52	16.308	1321	1323	1328	rVB2	459505	654990	13.93%	2.297%
53	16.411	1328	1332	1333	rBV2	76211	139280	2.96%	0.488%
54	16.537	1340	1343	1345	rBV3	31090	64587	1.37%	0.226%
55	16.583	1345	1347	1349	rBV	45696	61187	1.30%	0.215%
56	16.708	1355	1358	1359	rBV2	54644	99222	2.11%	0.348%
57	16.743	1359	1361	1363	rVV3	67152	134884	2.87%	0.473%
58	16.800	1364	1366	1368	rVB	81401	109283	2.32%	0.383%
59	16.846	1368	1370	1372	rVB2	39591	50872	1.08%	0.178%
60	16.926	1375	1377	1378	rVB	42037	50599	1.08%	0.177%
61	16.994	1378	1383	1384	rBV4	67222	203796	4.34%	0.715%
62	17.154	1394	1397	1398	rBV3	27598	55902	1.19%	0.196%
63	17.211	1400	1402	1404	rVV	57332	87074	1.85%	0.305%
64	17.303	1408	1410	1413	rVV2	44851	68148	1.45%	0.239%
65	17.417	1418	1420	1422	rBV	31142	47290	1.01%	0.166%
66	17.646	1437	1440	1445	rBV	444470	1061186	22.57%	3.721%
67	17.771	1449	1451	1453	rVB	90862	119617	2.54%	0.419%
68	17.989	1467	1470	1473	rVB	288233	416920	8.87%	1.462%
69	18.046	1473	1475	1479	rVB	379193	578389	12.30%	2.028%
70	18.126	1479	1482	1483	rBV	731667	1018478	21.66%	3.572%
71	18.194	1486	1488	1491	rVB2	62132	130198	2.77%	0.457%

LSC Area Percent Report

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Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

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-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	19.463	1596	1599	1604	rVB2	62017	131047	2.79%	0.460%
73	19.634	1610	1614	1619	rVB2	229259	542576	11.54%	1.903%
74	19.829	1628	1631	1633	rBV	42198	83585	1.78%	0.293%
75	19.874	1633	1635	1638	rVV2	45753	84319	1.79%	0.296%
76	20.080	1649	1653	1663	rVB	213175	513403	10.92%	1.800%

Sum of corrected areas: 28516448

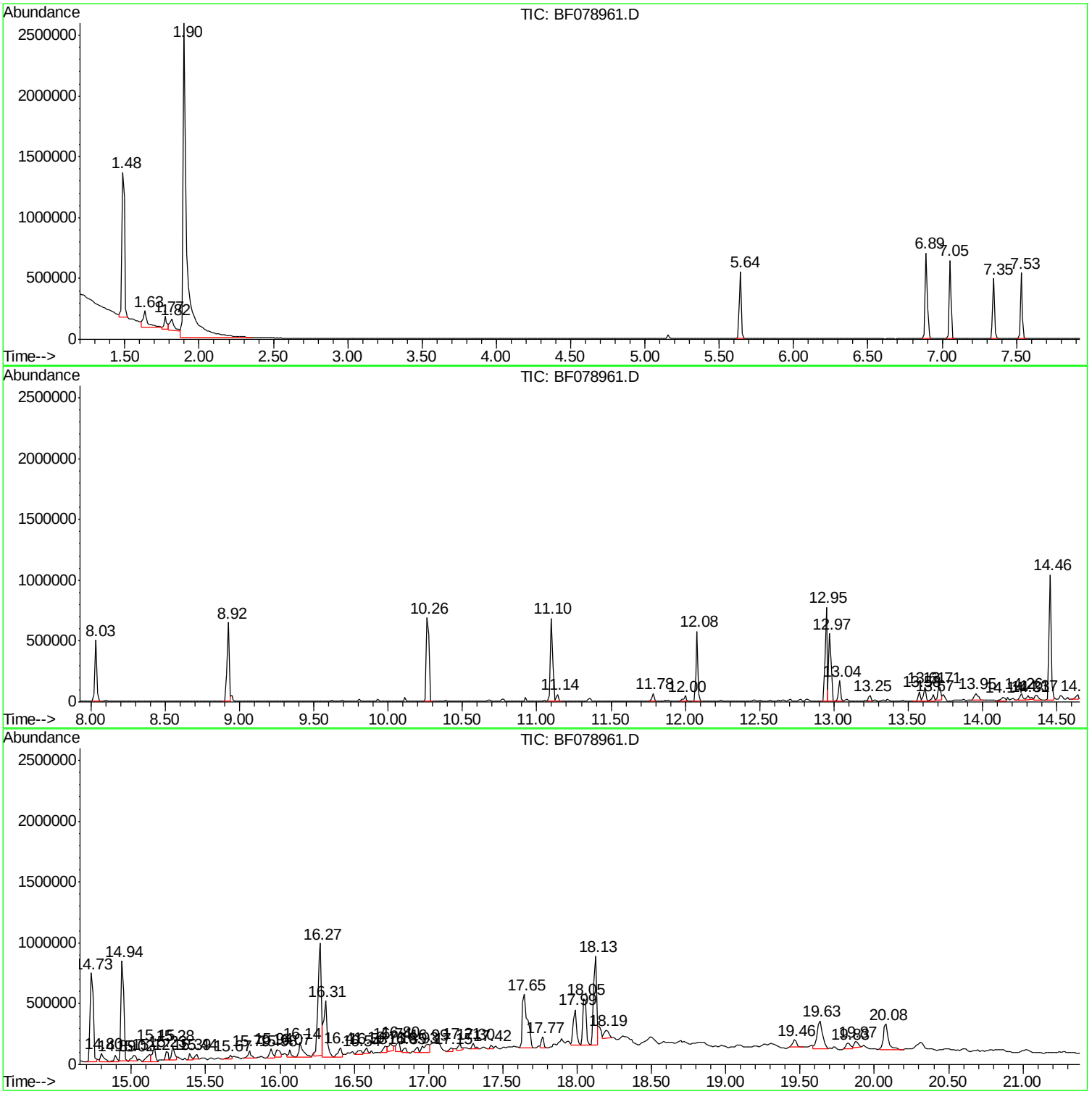
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

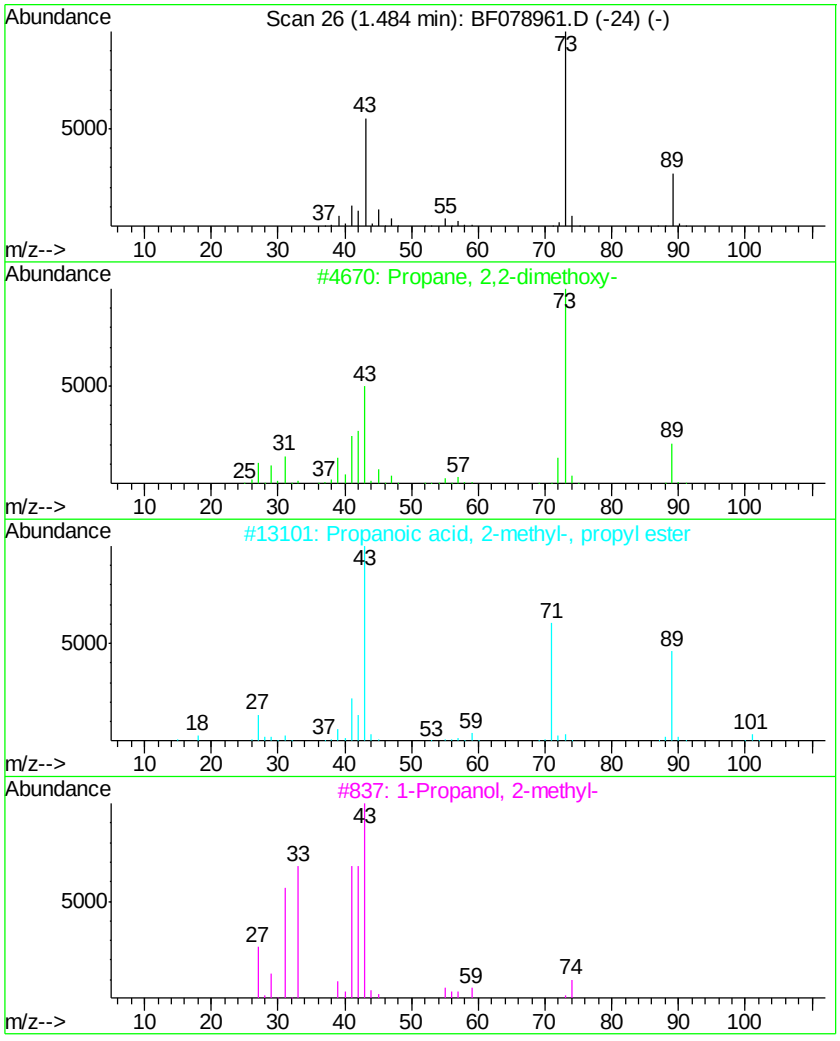
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

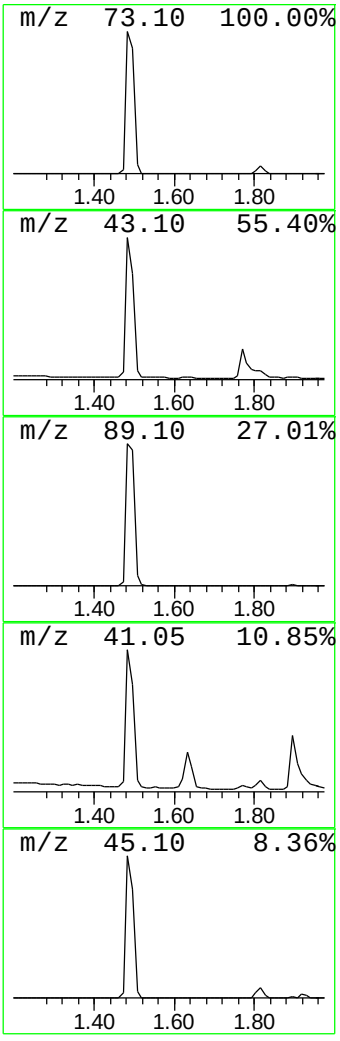
****

Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	72.31 ng	1577030	1,4-Dichlorobenzene-d4	7.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	72
2	Propanoic acid, 2-methyl-, propy...	130	C7H14O2	000644-49-5	23
3	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	9
4	2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	9
5	2-Butanone, 3-methoxy-3-methyl-	116	C6H12O2	036687-98-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

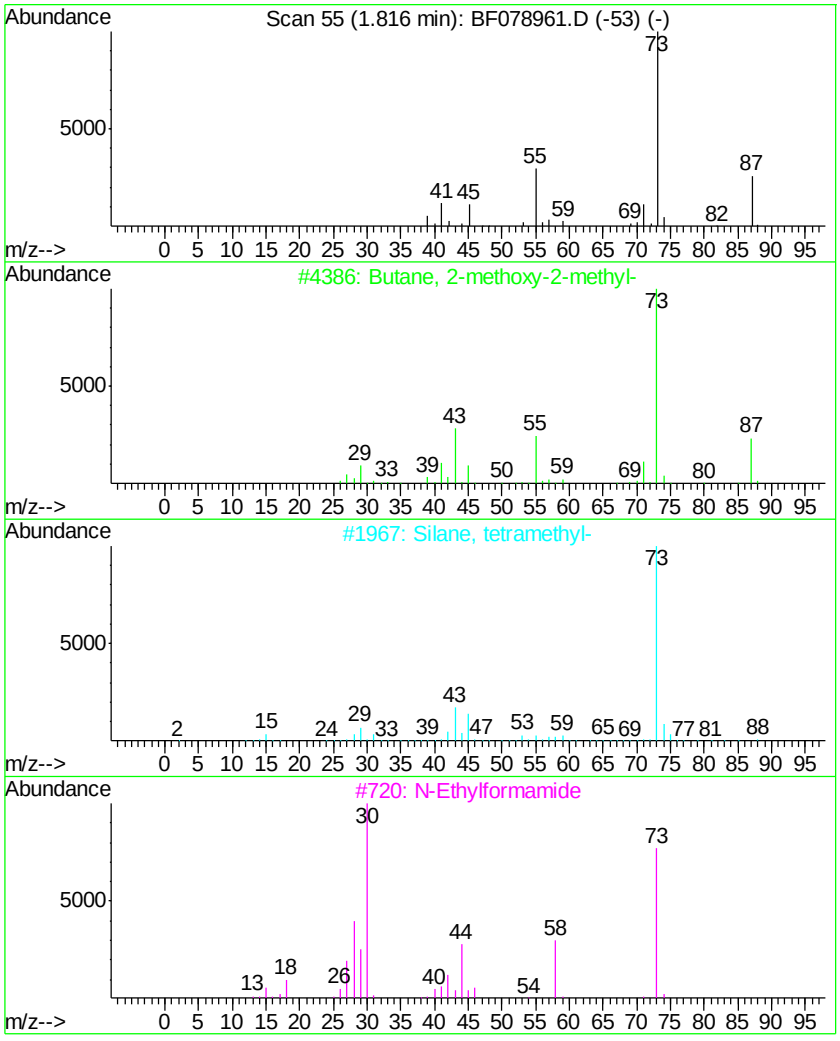
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

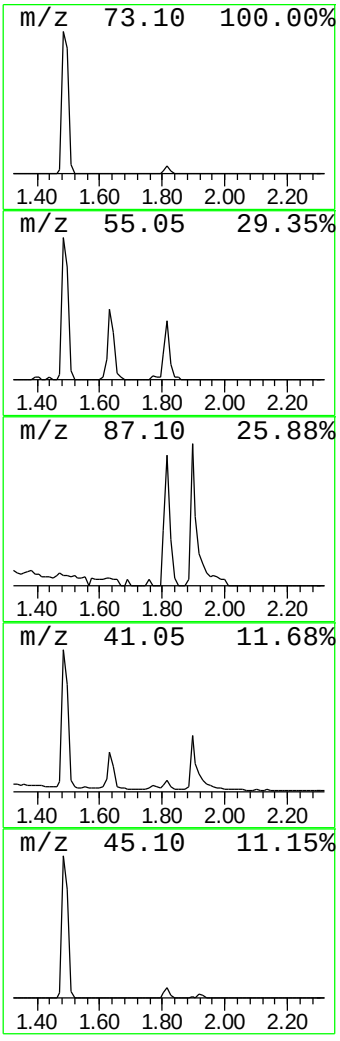
****

Peak Number 4 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.82	7.20 ng	156989	1,4-Dichlorobenzene-d4	7.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	38
3	N-Ethylformamide	73	C3H7NO	000627-45-2	9
4	Borane, dimethoxy-	74	C2H7BO2	004542-61-4	9
5	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

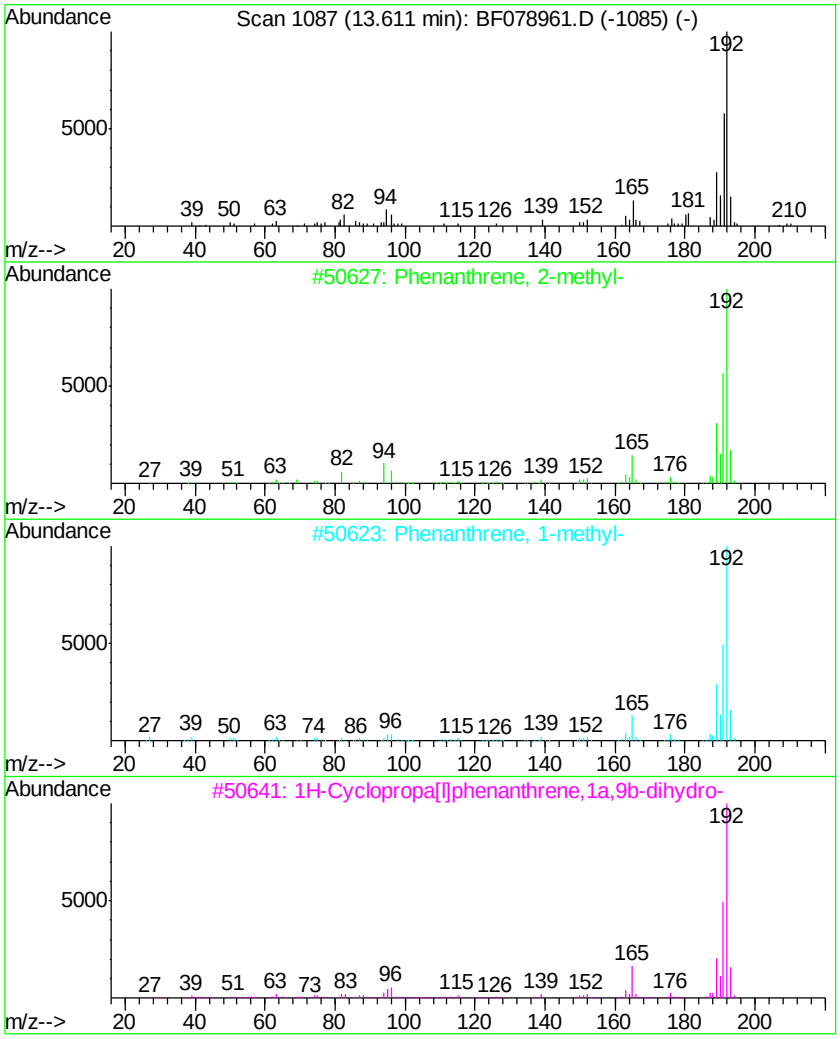
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

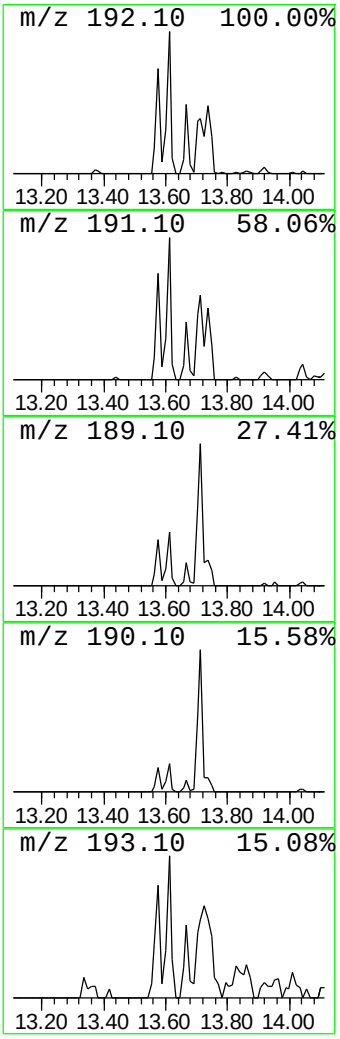
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.61	2.80 ng	111275	Phenanthrene-d10	12.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

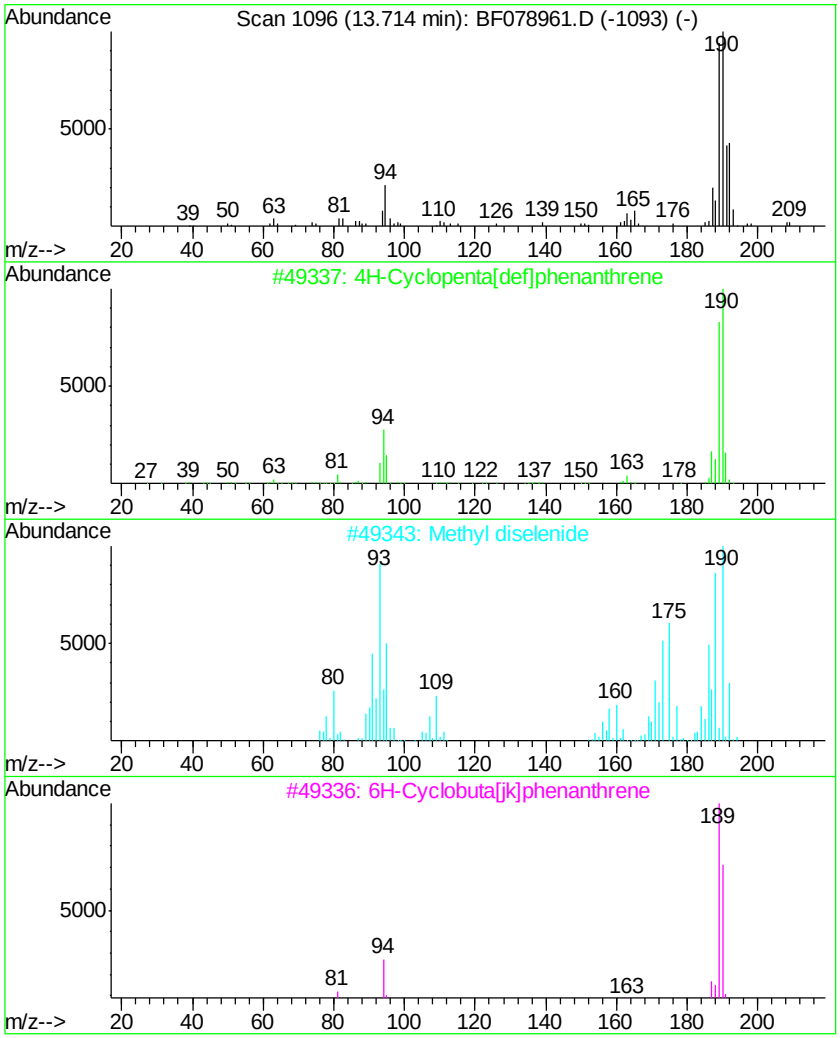
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

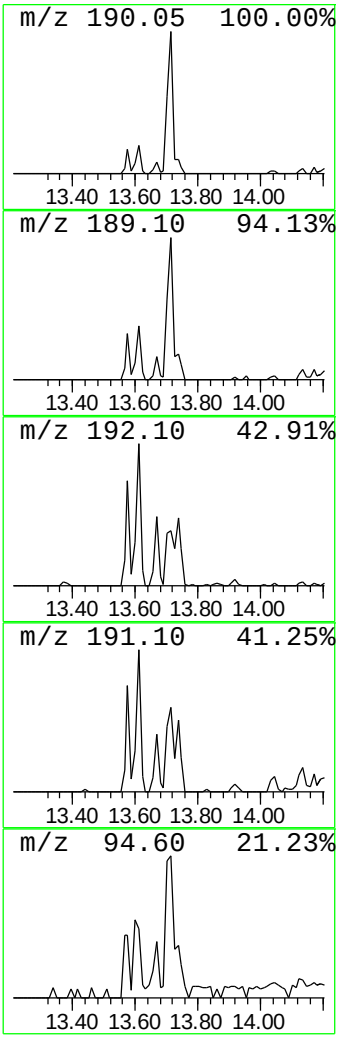
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	3.73 ng	147845	Phenanthrene-d10	12.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	45
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
5	4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	17





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

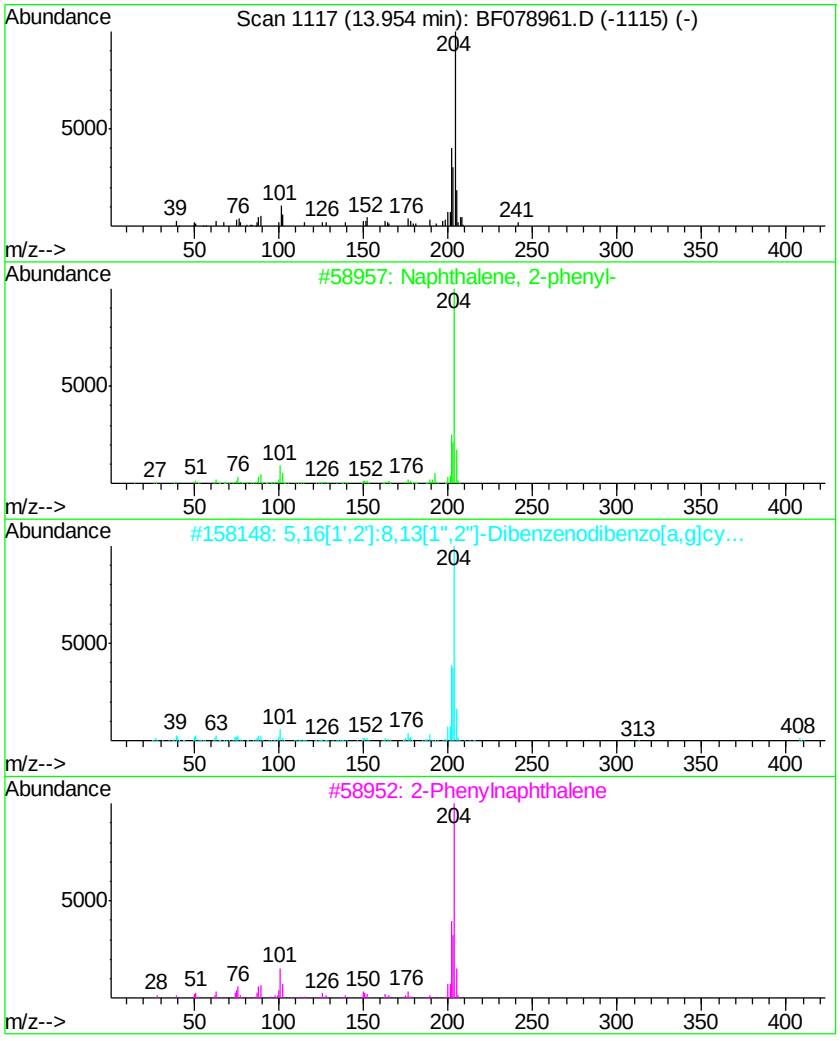
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

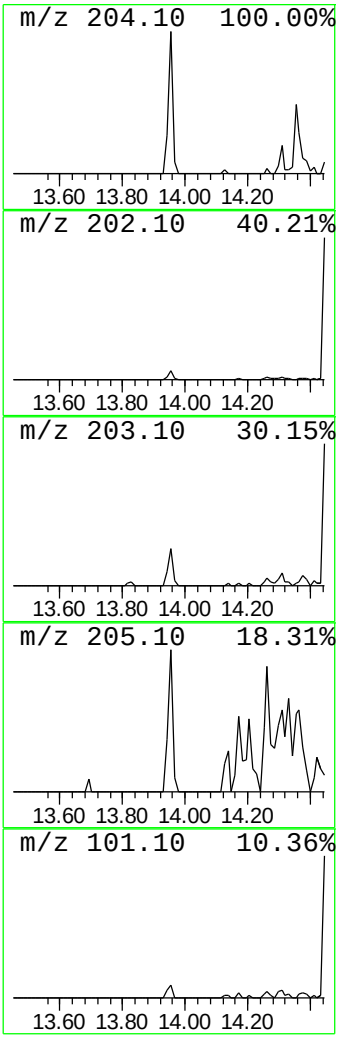
****

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	2.75 ng	109080	Phenanthrene-d10	12.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	70
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

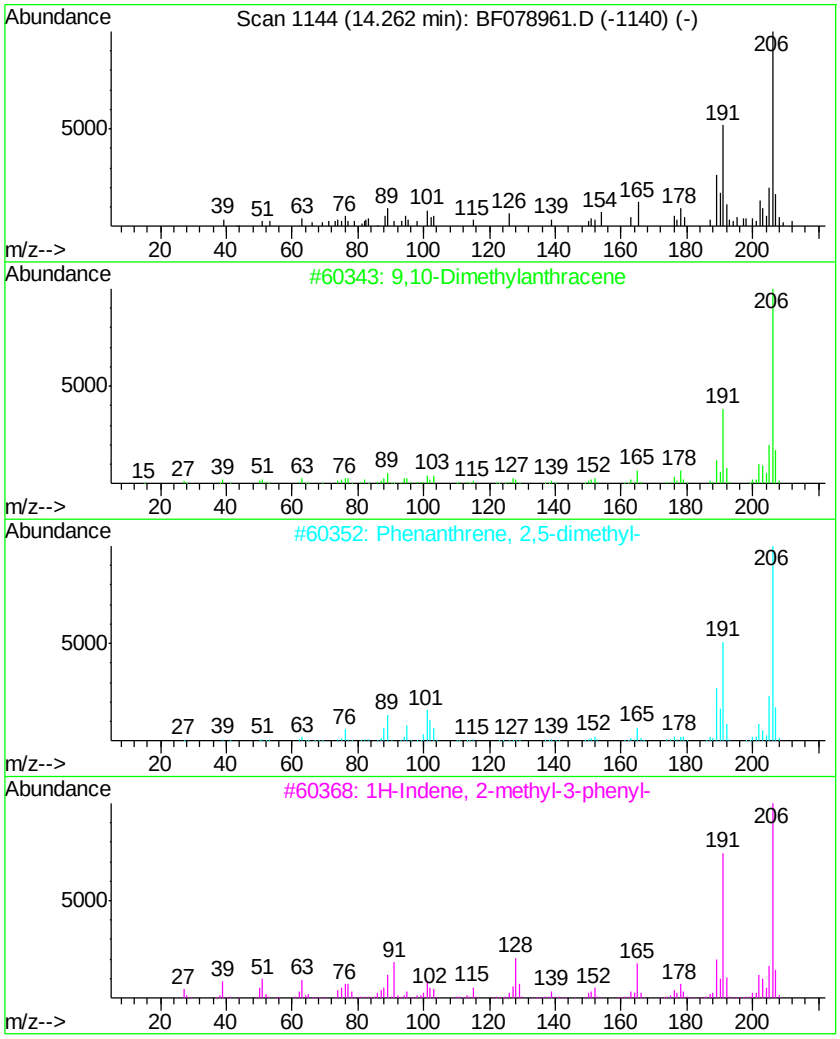
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

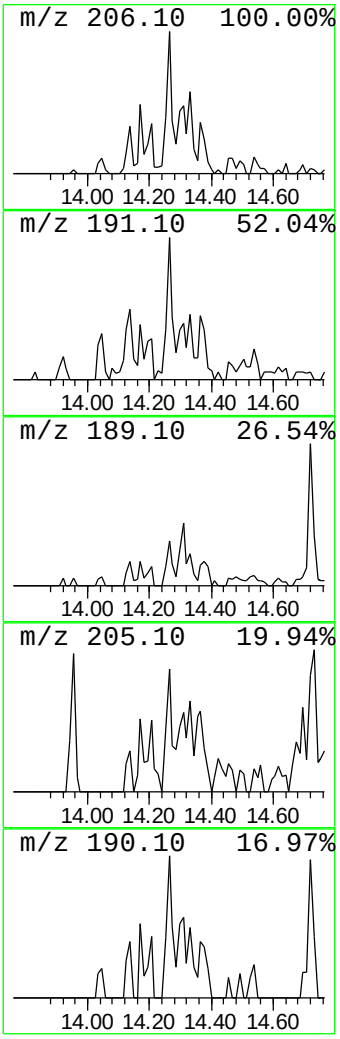
****

Peak Number 11 9,10-Dimethylanthracene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	2.06 ng	81594	Phenanthrene-d10	12.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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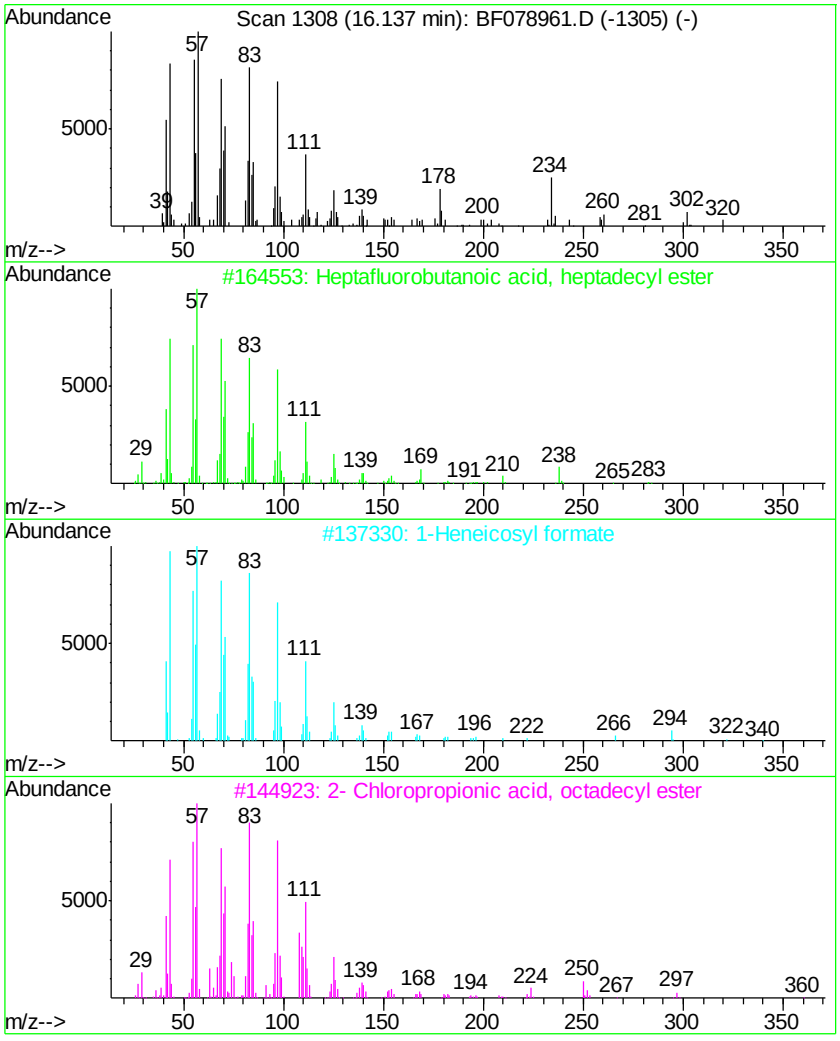
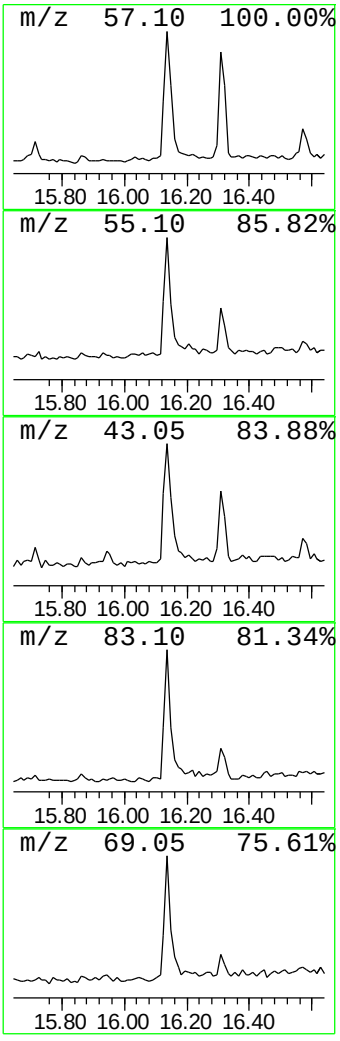
Peak Number 12 Heptafluorobutanoic acid, h... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.14	3.26 ng	264420	Chrysene-d12	16.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	91
2	1-Heneicosyl formate	340	C22H44O2	077899-03-7	90
3	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	90
4	3-Eicosene, (E)-	280	C20H40	074685-33-9	87
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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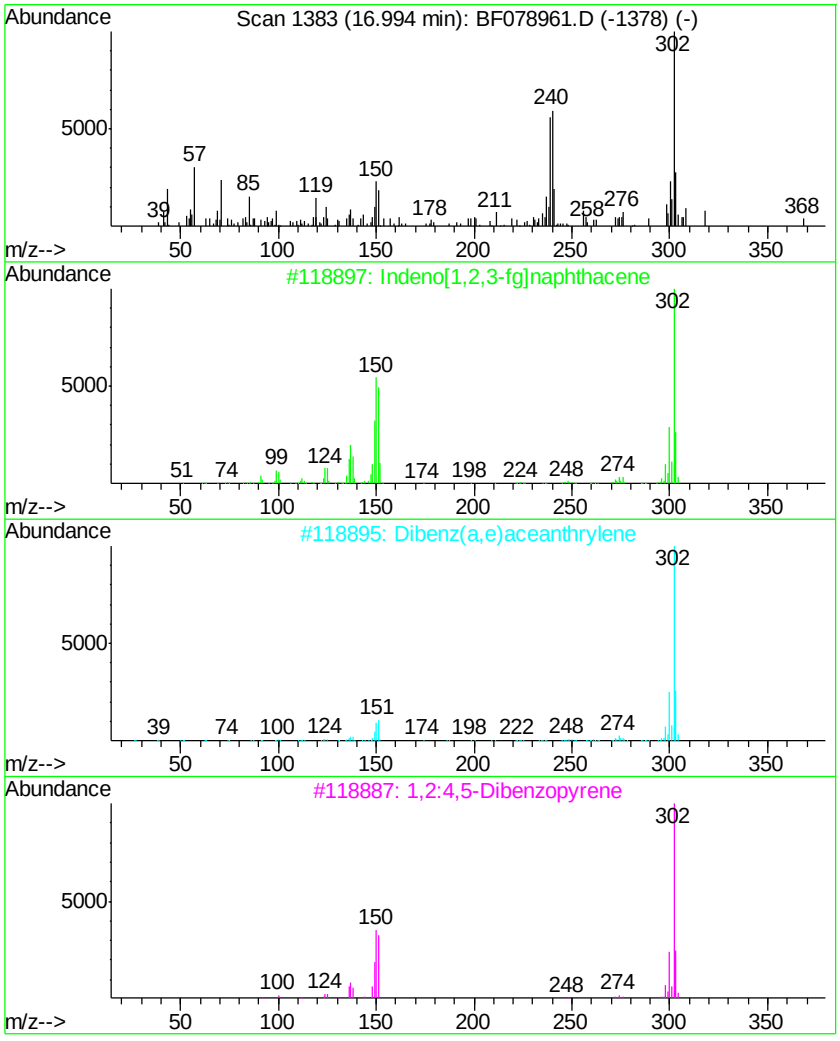
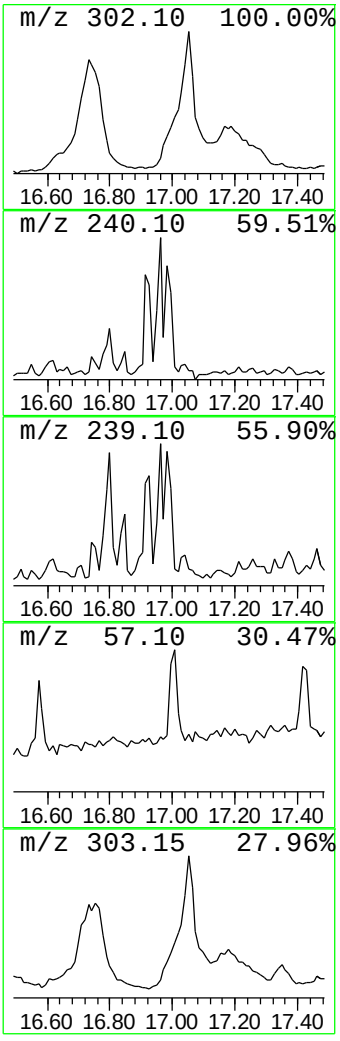
Peak Number 13 Indeno[1,2,3-fg]naphthacene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.99	2.51 ng	203796	Chrysene-d12	16.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	81
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	49
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	42
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	42
5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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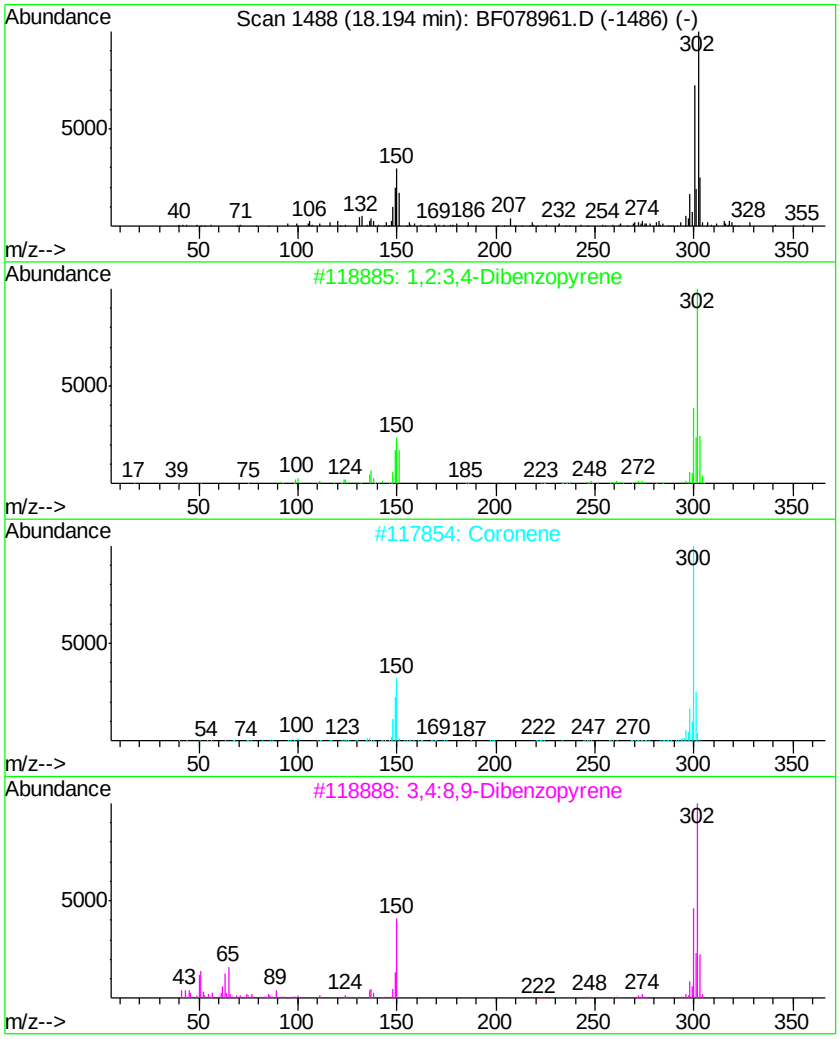
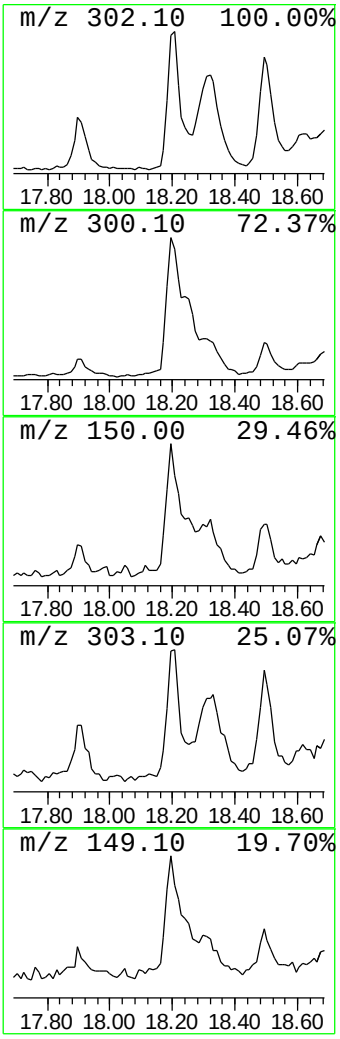
Peak Number 16 1,2:3,4-Dibenzopyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	2.56 ng	130198	Perylene-d12	18.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	86
2	Coronene	300	C24H12	000191-07-1	60
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	60
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	53
5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050615\
Data File : BF078961.D
Acq On : 6 May 2015 15:36
Operator : TP/IZ
Sample : G2116-06 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-46S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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
Propane, 2,2-dime...	1.48	72.3	ng	1577030	1	7.35	436169	20.0
Butane, 2-methoxy...	1.82	7.2	ng	156989	1	7.35	436169	20.0
Phenanthrene, 2-m...	13.61	2.8	ng	111275	4	12.95	793428	20.0
4H-Cyclopenta[def...	13.71	3.7	ng	147845	4	12.95	793428	20.0
Naphthalene, 2-ph...	13.95	2.8	ng	109080	4	12.95	793428	20.0
9,10-Dimethylanth...	14.26	2.1	ng	81594	4	12.95	793428	20.0
Heptafluorobutano...	16.14	3.3	ng	264420	5	16.27	1624590	20.0
Indeno[1,2,3-fg]n...	16.99	2.5	ng	203796	5	16.27	1624590	20.0
1,2:3,4-Dibenzopy...	18.19	2.6	ng	130198	6	18.13	1018480	20.0