LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

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-BF052615.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	1.564	32	33	40	rBV	236665	377872	8.83%	0.617%
2	1.667	40	42	73	rVB	2278298	4278547	99.93%	6.981%
3	4.684	304	306	315	rVB	49970	95551	2.23%	0.156%
4	5.244	352	355	366	rBV	1239271	1485765	34.70%	2.424%
5	6.570	469	471	478	rBV	1404334	1589751	37.13%	2.594%
6	6.685	478	481	484	rBV	1602537	1689594	39.46%	2.757%
7	6.959	503	505	508	rBV	440767	467759	10.93%	0.763%
8	7.153	519	522	524	rBV	995555	1374930	32.11%	2.243%
9	7.668	564	567	569	rBV	919531	1081609	25.26%	1.765%
10	7.793	575	578	581	rVB	64111	62695	1.46%	0.102%
11	8.536	641	643	648	rBV2	595847	824041	19.25%	1.344%
12	9.428	719	721	723	rBV	108005	97479	2.28%	0.159%
13	9.542	725	731	734	rBV	97245	130783	3.05%	0.213%
14	9.885	759	761	764	rVB	1683270	2056600	48.04%	3.355%
15	10.022	766	773	775	rBV2	44075	100261	2.34%	0.164%
16	10.296	794	797	798	rVV2	67591	79691	1.86%	0.130%
17	10.331	798	800	802	rVV	47103	59601	1.39%	0.097%
18	10.399	802	806	813	rVV2	201084	333389	7.79%	0.544%
19	10.536	815	818	820	rVV	261299	294946	6.89%	0.481%
20	10.708	825	833	835	rBV	824263	903823	21.11%	1.475%
21	10.742	835	836	838	rVB	101028	107253	2.51%	0.175%
22	10.959	854	855	858	rVV2	80991	117634	2.75%	0.192%
23	11.016	858	860	864	rVV4	26682	59486	1.39%	0.097%
24	11.108	866	868	870	rVV	41841	57200	1.34%	0.093%
25	11.222	875	878	881	rBV3	40190	92478	2.16%	0.151%
26	11.302	883	885	888	rVV	74213	82459	1.93%	0.135%
27	11.382	891	892	895	rVB	106569	114231	2.67%	0.186%
28	11.588	908	910	913	rVB3	65999	121904	2.85%	0.199%
29	11.691	916	919	921	rVV	1125213	1373583	32.08%	2.241%
30	11.851	931	933	935	rVB	52965	64839	1.51%	0.106%
31	11.908	935	938	940	rBV	120372	226515	5.29%	0.370%
32	12.068	949	952	954	rBV3	28223	61122	1.43%	0.100%
33	12.251	963	968	970	rBV3	73397	196335	4.59%	0.320%
34	12.308	971	973	976	rVB	86251	103218	2.41%	0.168%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.365	976	978	980	rBV	34016	55396	1.29%	0.090%
36	12.411	980	982	984	rVV	76313	75721	1.77%	0.124%
37	12.445	984	985	987	rVB	72023	91429	2.14%	0.149%
38	12.537	991	993	995	rBV	628888	943294	22.03%	1.539%
39	12.571	995	996	998	rVB	1087873	843347	19.70%	1.376%
40	12.639	998	1002	1004	rBV	332652	501691	11.72%	0.819%
41	12.685	1004	1006	1009	rBV2	68699	107121	2.50%	0.175%
42	12.845	1018	1020	1022	rVV	143520	167266	3.91%	0.273%
43	12.891	1022	1024	1026	rVV2	33699	62014	1.45%	0.101%
44	12.982	1030	1032	1036	rVB2	90295	109094	2.55%	0.178%
45	13.165	1046	1048	1050	rBV	161768	207773	4.85%	0.339%
46	13.200	1050	1051	1055	rVB	231603	263667	6.16%	0.430%
47	13.257	1055	1056	1057	rBV	98699	129385	3.02%	0.211%
48	13.302	1057	1060	1062	rBV2	260423	345079	8.06%	0.563%
49	13.417	1067	1070	1071	rBV3	40846	77691	1.81%	0.127%
50	13.485	1075	1076	1079	rVV2	45451	90137	2.11%	0.147%
51	13.542	1079	1081	1083	rVV	126256	163833	3.83%	0.267%
52	13.577	1083	1084	1086	rVB	74364	55649	1.30%	0.091%
53	13.725	1095	1097	1099	rBV	56243	59839	1.40%	0.098%
54	13.760	1099	1100	1102	rBV	39377	61971	1.45%	0.101%
55	13.851	1105	1108	1110	rBV	182294	283574	6.62%	0.463%
56	13.897	1110	1112	1116	rVB2	75753	133251	3.11%	0.217%
57	13.954	1116	1117	1123	rVB3	129062	220696	5.15%	0.360%
58	14.045	1123	1125	1127	rBV	2017875	2038588	47.61%	3.326%
59	14.125	1130	1132	1133	rBV	75952	77929	1.82%	0.127%
60	14.160	1133	1135	1138	rVB	175527	200239	4.68%	0.327%
61	14.228	1138	1141	1142	rBV	118545	177857	4.15%	0.290%
62	14.251	1142	1143	1146	rBV2	53526	97488	2.28%	0.159%
63	14.320	1146	1149	1151	rVB	2076839	2458608	57.42%	4.011%
64	14.354	1151	1152	1154	rBV	59828	112366	2.62%	0.183%
65	14.480	1161	1163	1165	rBV	147934	181046	4.23%	0.295%
66	14.537	1165	1168	1170	rVV	2048523	2210663	51.63%	3.607%
67	14.605	1170	1174	1176	rVV2	153694	272879	6.37%	0.445%
68	14.651	1176	1178	1180	rVV2	46229	53848	1.26%	0.088%
69	14.743	1180	1186	1188	rVB2	293082	703685	16.44%	1.148%
70	14.788	1188	1190	1191	rBV	51051	89498	2.09%	0.146%
71	14.823	1191	1193	1195	rVV	175449	191391	4.47%	0.312%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.868	1195	1197	1202	rVB	308549	518665	12.11%	0.846%
73	14.971	1205	1206	1208	rVB	175471	184265	4.30%	0.301%
74	15.017	1208	1210	1213	rBV	132277	207182	4.84%	0.338%
75	15.371	1239	1241	1244	rVB	238075	310731	7.26%	0.507%
76	15.508	1250	1253	1254	rBV	202874	300169	7.01%	0.490%
77	15.543	1254	1256	1257	rVV	254140	325848	7.61%	0.532%
78	15.588	1259	1260	1263	rVV2	144119	190844	4.46%	0.311%
79	15.634	1263	1264	1267	rVB	198750	188247	4.40%	0.307%
80	15.714	1268	1271	1275	rBV2	389328	625116	14.60%	1.020%
81	15.805	1276	1279	1282	rBV2	1575808	3359955	78.48%	5.482%
82	15.851	1282	1283	1288	rVB	1460080	1419761	33.16%	2.316%
83	15.943	1289	1291	1293	rVV	366352	390428	9.12%	0.637%
84	16.080	1301	1303	1304	rVB	154657	167936	3.92%	0.274%
85	16.114	1304	1306	1309	rBV2	181209	298007	6.96%	0.486%
86	16.263	1317	1319	1321	rBV	166770	244943	5.72%	0.400%
87	16.308	1321	1323	1325	rVV	401379	538030	12.57%	0.878%
88	16.354	1325	1327	1330	rVV	162073	257892	6.02%	0.421%
89	16.423	1331	1333	1335	rVB	161938	216951	5.07%	0.354%
90	16.857	1369	1371	1373	rBV	932159	1368686	31.97%	2.233%
91	17.097	1389	1392	1397	rBV	1887910	4281443	100.00%	6.985%
92	17.200	1400	1401	1403	rVB	489103	552440	12.90%	0.901%
93	17.406	1416	1419	1422	rVB	1202344	1604711	37.48%	2.618%
94	17.463	1422	1424	1427	rVB	1826137	2305055	53.84%	3.761%
95	17.520	1427	1429	1431	rBV	606196	939249	21.94%	1.532%
96	17.554	1431	1432	1438	rVB2	581123	603990	14.11%	0.985%
97	18.823	1540	1543	1547	rVB2	1099662	2242731	52.38%	3.659%
98	18.983	1554	1557	1558	rBV	291576	530716	12.40%	0.866%
99	19.212	1573	1577	1584	rVB	952184	2059075	48.09%	3.360%
100	19.406	1592	1594	1602	rVB2	380635	979458	22.88%	1.598%

Sum of corrected areas: 61290471

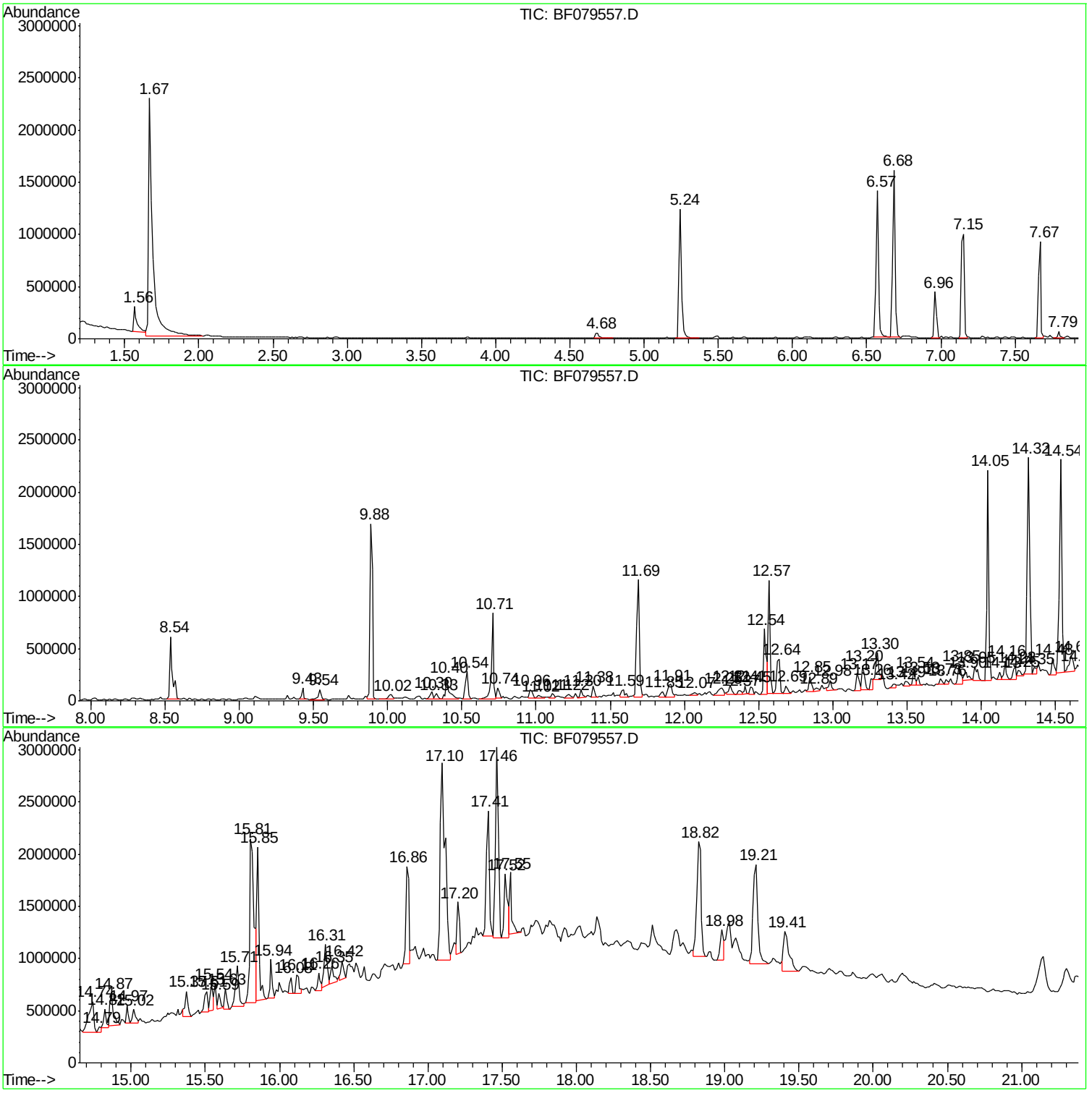
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

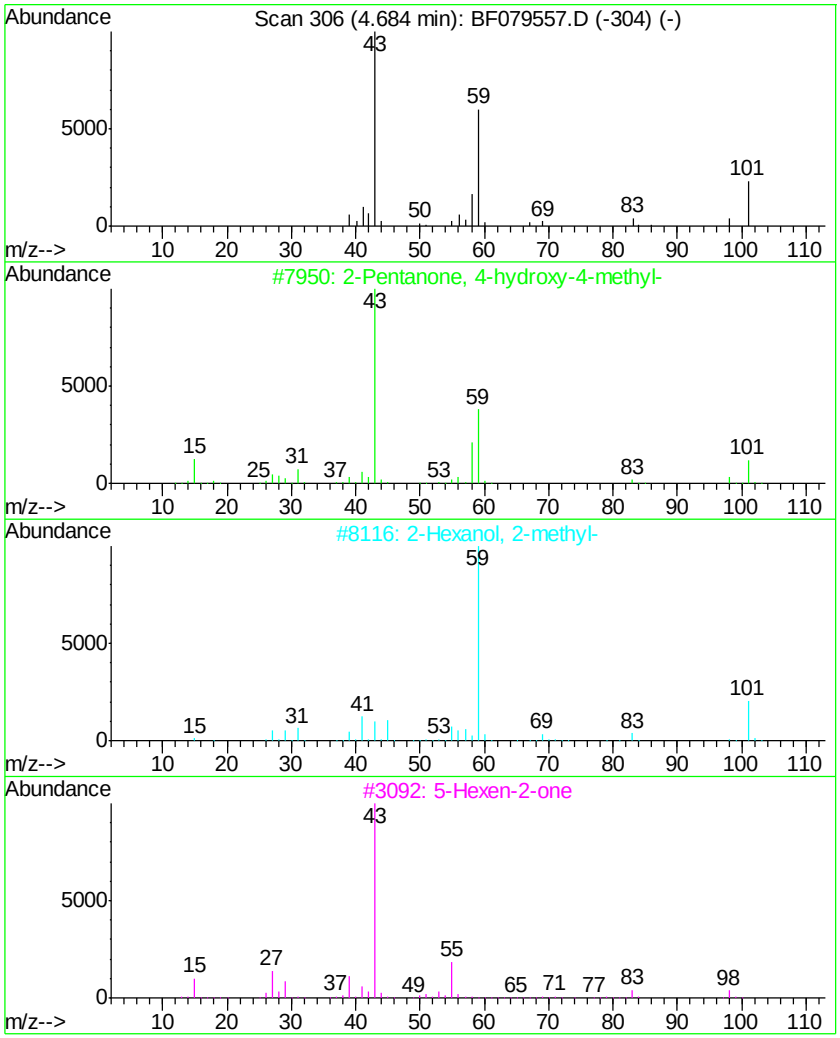
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

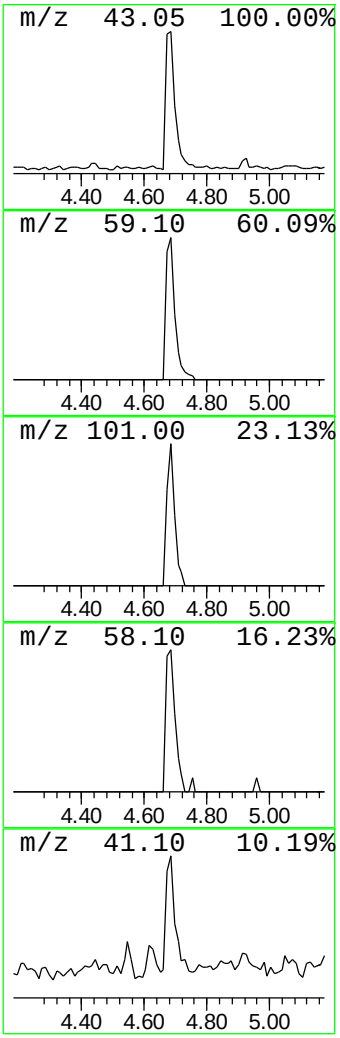
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.68	4.09 ng	95551	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
3	5-Hexen-2-one	98	C6H10O	000109-49-9	10
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

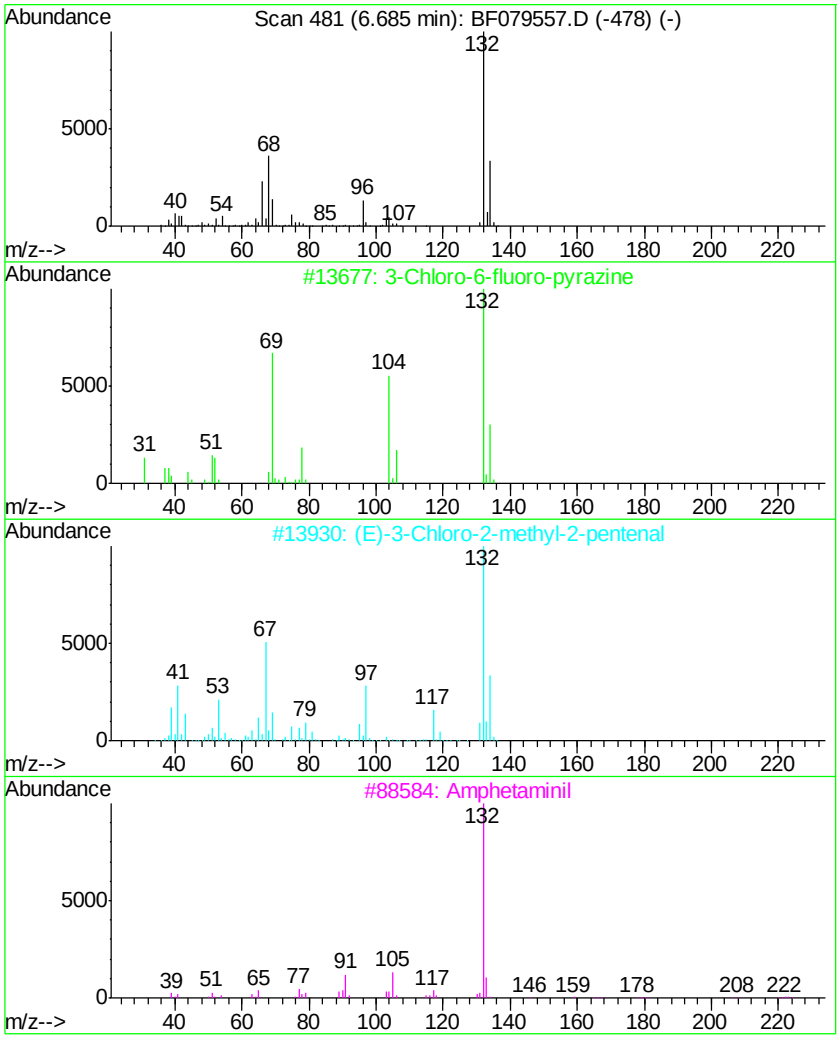
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

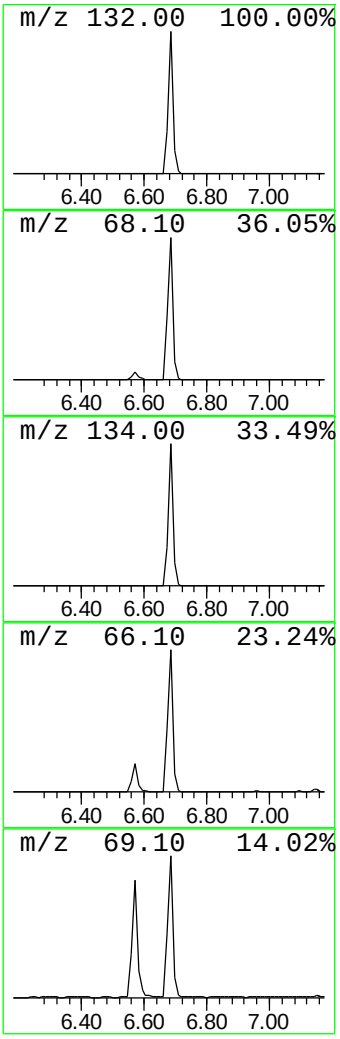
****

Peak Number 4 unknown6.68 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.68	72.24 ng	1689590	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

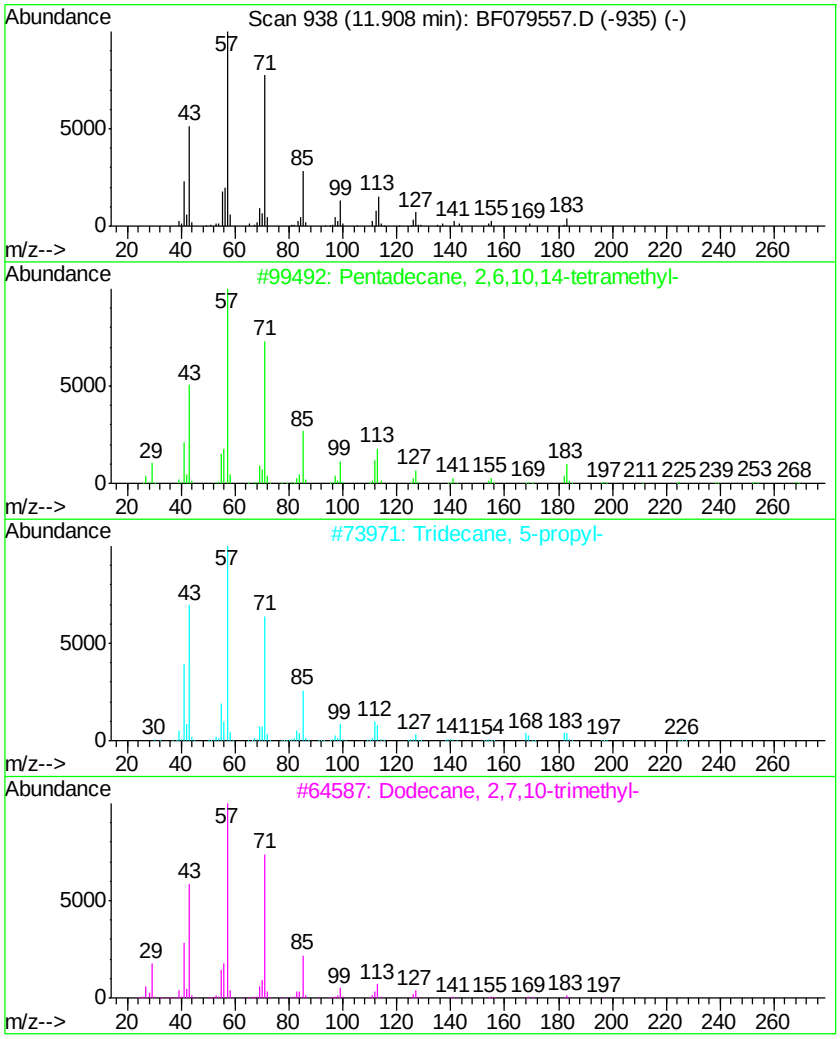
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

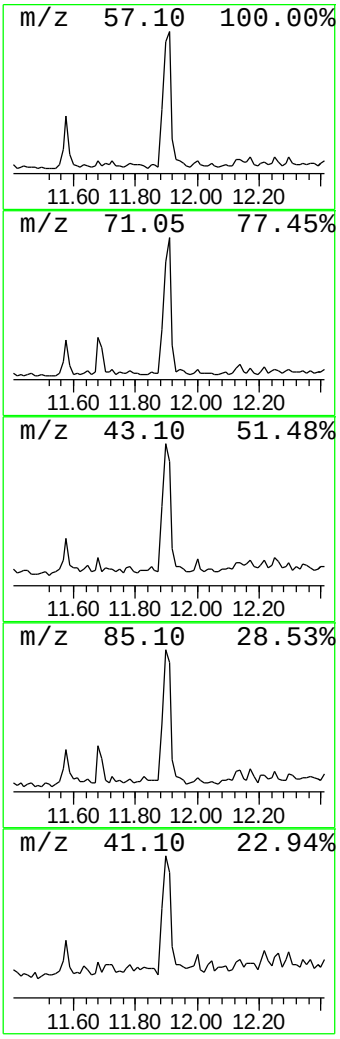
****

Peak Number 6 Pentadecane, 2,6,10,14-tetr... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	4.80 ng	226515	Phenanthrene-d10	12.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	91
2	Tridecane, 5-propyl-	226	C16H34	055045-11-9	86
3	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
4	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	86
5	Heptacosane	380	C27H56	000593-49-7	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

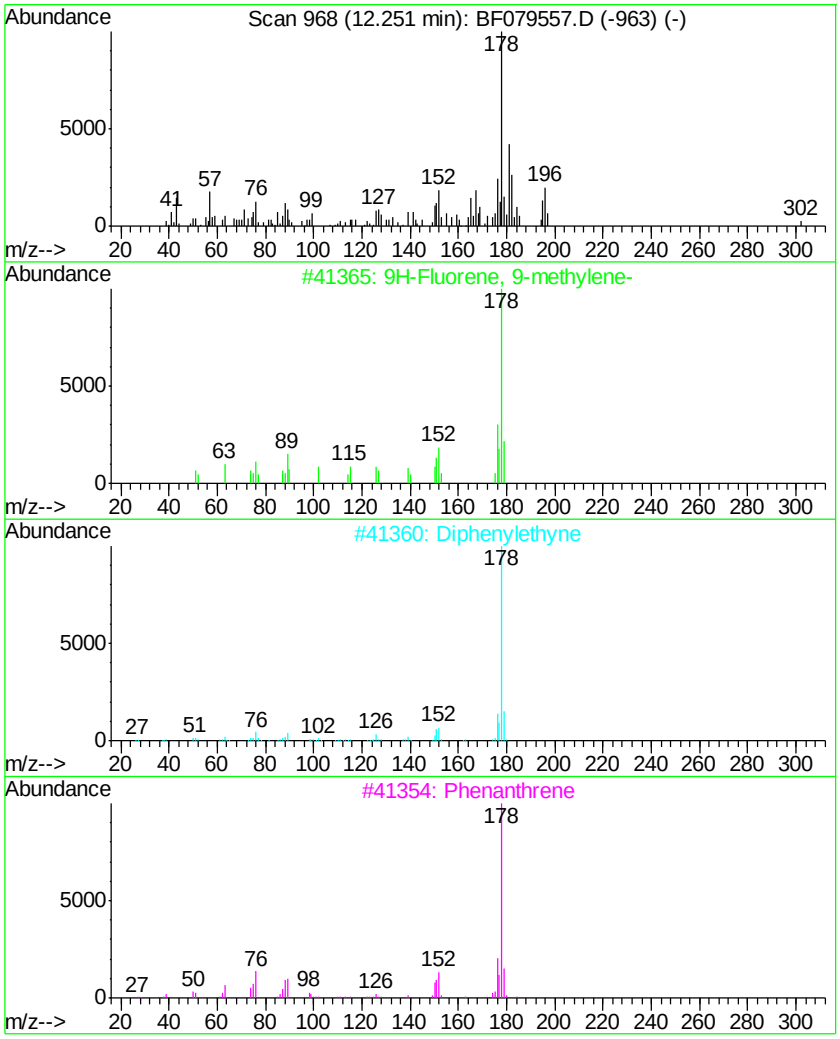
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

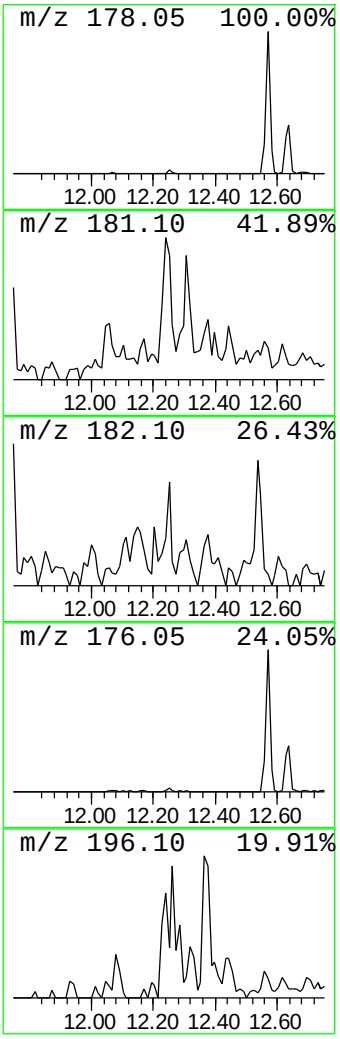
****

Peak Number 7 9H-Fluorene, 9-methylene- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	4.16 ng	196335	Phenanthrene-d10	12.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-methylene-	178	C14H10	004425-82-5	60
2	Diphenylethyne	178	C14H10	000501-65-5	46
3	Phenanthrene	178	C14H10	000085-01-8	46
4	Anthracene	178	C14H10	000120-12-7	46
5	Benz[a]azulene	178	C14H10	000246-02-6	41





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

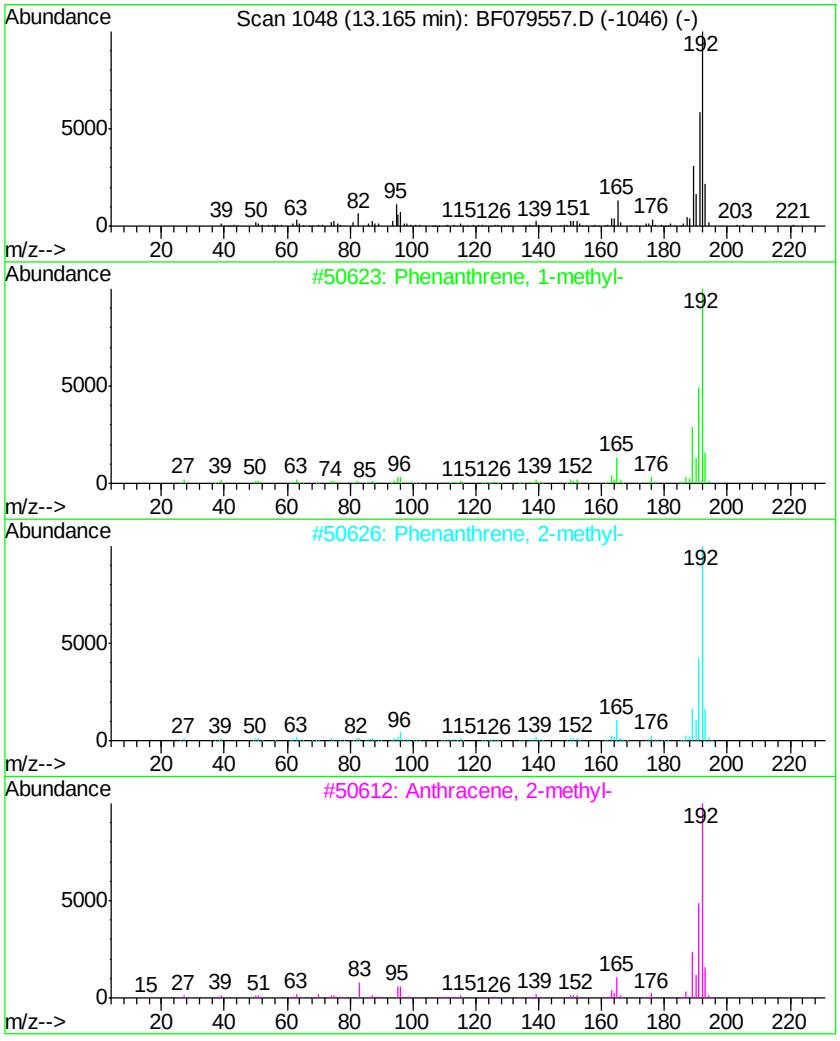
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

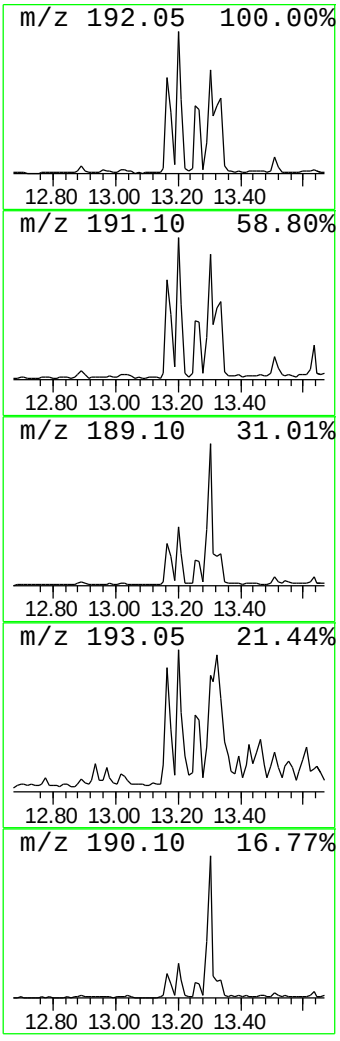
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	4.41 ng	207773	Phenanthrene-d10	12.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

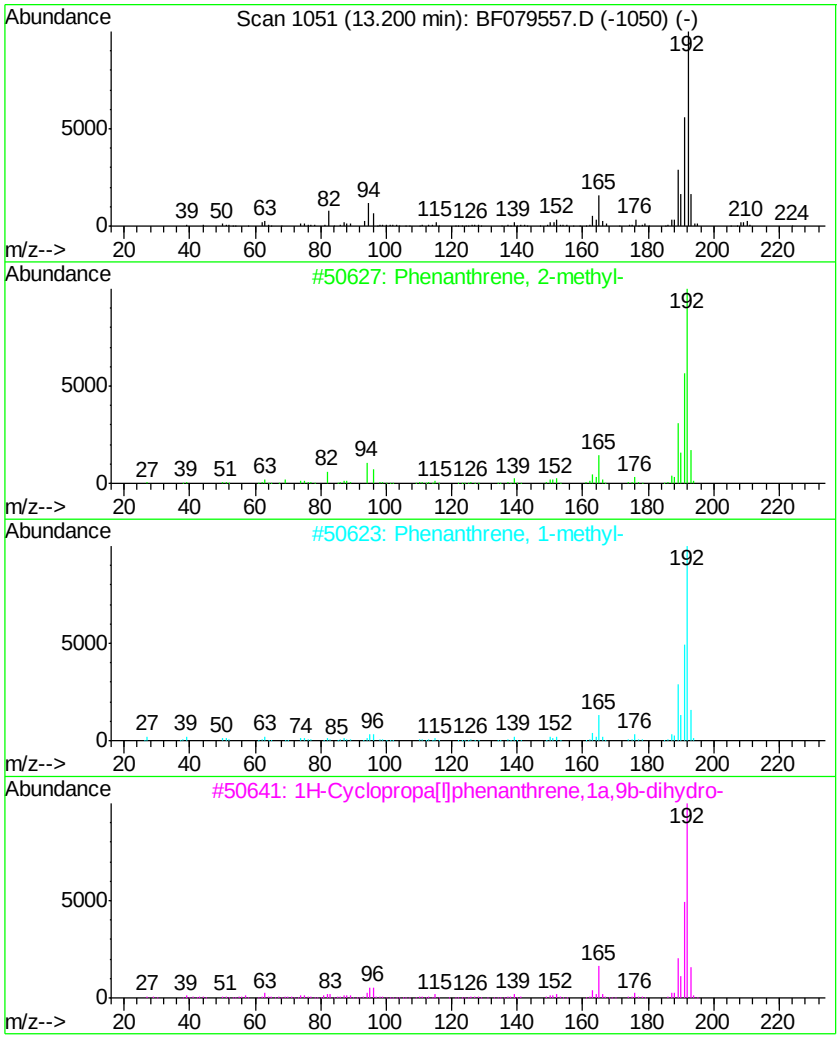
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

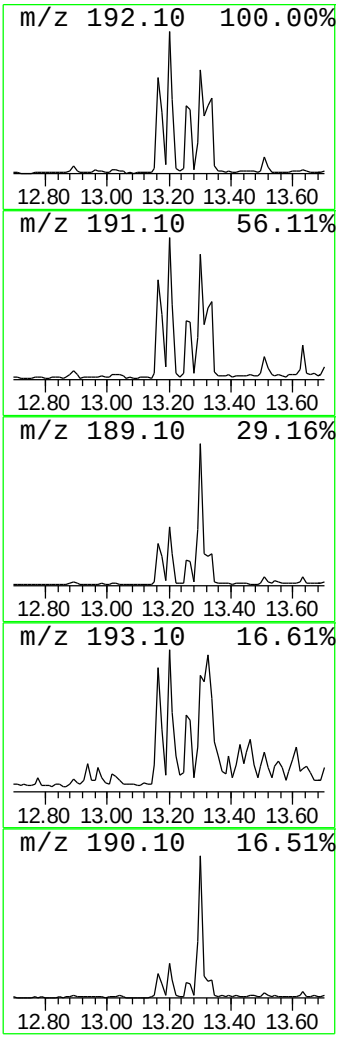
****

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	5.59 ng	263667	Phenanthrene-d10	12.54

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	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

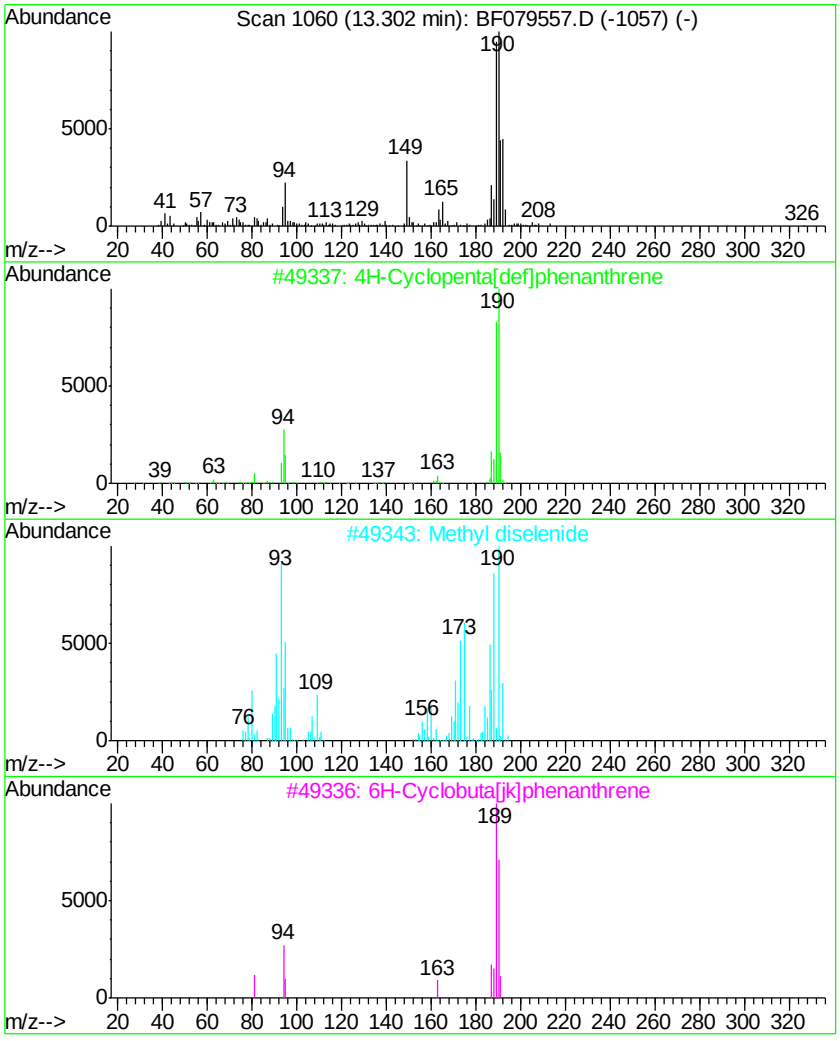
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

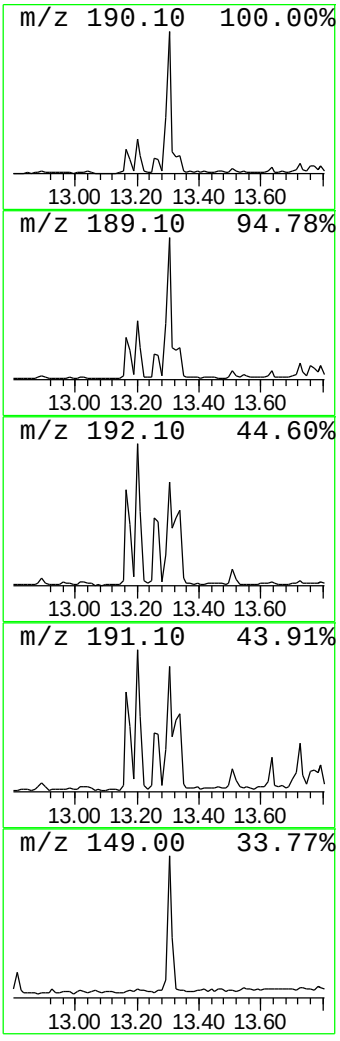
****

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.30	7.32 ng	345079	Phenanthrene-d10	12.54

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	41
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
5	Propanoic acid, 2-(2,4-dichlorop...	378	C15H10Cl4O3	284488-02-4	13





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052815\
Data File : BF079557.D
Acq On : 28 May 2015 21:27
Operator : TP/IZ
Sample : G2294-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HY-SB407A(3-3.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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...	4.68	4.1	ng	95551	1	6.96	467759	20.0
unknown6.68	6.68	72.2	ng	1689590	1	6.96	467759	20.0
Pentadecane, 2,6,...	11.91	4.8	ng	226515	4	12.54	943294	20.0
9H-Fluorene, 9-me...	12.25	4.2	ng	196335	4	12.54	943294	20.0
Phenanthrene, 1-m...	13.17	4.4	ng	207773	4	12.54	943294	20.0
Phenanthrene, 2-m...	13.20	5.6	ng	263667	4	12.54	943294	20.0
4H-Cyclopenta[def...	13.30	7.3	ng	345079	4	12.54	943294	20.0