LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088435.D
Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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-BF060716.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	1.690	7	9	35	rVB	157669	370212	7.29%	0.501%
2	5.130	308	310	324	rBV	126897	194595	3.83%	0.263%
3	6.216	403	405	412	rBV	151809	207464	4.08%	0.281%
4	6.319	412	414	424	rVB	249477	270237	5.32%	0.365%
5	6.547	432	434	445	rBV	340115	376963	7.42%	0.510%
6	6.696	445	447	455	rVV	206475	229362	4.51%	0.310%
7	7.119	483	484	500	rBV	114937	158085	3.11%	0.214%
8	7.839	544	547	551	rBV2	408217	821529	16.17%	1.111%
9	8.548	607	609	611	rBV	171669	146425	2.88%	0.198%
10	8.913	638	641	643	rBV	300273	336512	6.62%	0.455%
11	9.576	696	699	700	rBV	666165	614099	12.09%	0.830%
12	9.610	700	702	704	rVV	952765	819812	16.14%	1.108%
13	9.782	715	717	719	rVV	482417	424955	8.36%	0.575%
14	10.125	745	747	749	rBV	718157	687541	13.53%	0.930%
15	10.285	759	761	763	rVB	121565	152019	2.99%	0.206%
16	10.365	765	768	770	rVV	291083	347663	6.84%	0.470%
17	10.491	777	779	783	rVB	107608	126967	2.50%	0.172%
18	10.662	789	794	798	rBV3	111344	312076	6.14%	0.422%
19	10.799	803	806	810	rBV3	83087	237924	4.68%	0.322%
20	10.868	810	812	814	rVB	190174	171905	3.38%	0.232%
21	10.913	814	816	817	rBV	178466	186469	3.67%	0.252%
22	10.948	817	819	823	rVB	360278	443869	8.74%	0.600%
23	11.096	826	832	833	rBV	2806167	4911563	96.68%	6.641%
24	11.131	833	835	837	rVV	982702	1403220	27.62%	1.897%
25	11.165	837	838	841	rVB	134393	170704	3.36%	0.231%
26	11.302	846	850	853	rBV2	421280	791894	15.59%	1.071%
27	11.359	853	855	860	rVB5	107994	264408	5.20%	0.357%
28	11.554	870	872	873	rBV	498136	448255	8.82%	0.606%
29	11.588	873	875	877	rVB	476669	577556	11.37%	0.781%
30	11.634	877	879	880	rBV	267583	263245	5.18%	0.356%
31	11.668	880	882	887	rVB2	865299	1251394	24.63%	1.692%
32	11.771	889	891	894	rVV2	131607	131779	2.59%	0.178%
33	11.851	895	898	900	rVV	339903	359472	7.08%	0.486%
34	11.885	900	901	903	rVB	207552	215441	4.24%	0.291%

LSC Area Percent Report

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Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.102	918	920	922	rBV	218134	298807	5.88%	0.404%
36	12.159	922	925	927	rVB3	120117	181400	3.57%	0.245%
37	12.205	927	929	931	rVB2	225913	273373	5.38%	0.370%
38	12.285	931	936	938	rBV	2878908	5060435	99.61%	6.842%
39	12.331	938	940	943	rVB2	123670	182020	3.58%	0.246%
40	12.411	945	947	950	rBV	312158	361275	7.11%	0.488%
41	12.502	952	955	957	rBV2	2414173	5080169	100.00%	6.869%
42	12.536	957	958	963	rVB2	199626	292333	5.75%	0.395%
43	12.617	963	965	966	rBV	268115	426285	8.39%	0.576%
44	12.651	966	968	970	rVB2	377804	528294	10.40%	0.714%
45	12.708	970	973	975	rBV2	310140	555945	10.94%	0.752%
46	12.822	978	983	985	rBV	831368	1183310	23.29%	1.600%
47	12.891	987	989	990	rBV	437290	573012	11.28%	0.775%
48	12.925	990	992	995	rVB2	451448	666235	13.11%	0.901%
49	13.017	998	1000	1001	rBV	174776	245516	4.83%	0.332%
50	13.039	1001	1002	1007	rVB2	284080	372105	7.32%	0.503%
51	13.108	1007	1008	1012	rVB2	86863	169462	3.34%	0.229%
52	13.234	1014	1019	1023	rBV4	188164	535585	10.54%	0.724%
53	13.337	1026	1028	1031	rVB	351468	438627	8.63%	0.593%
54	13.439	1034	1037	1040	rBV2	517288	1295935	25.51%	1.752%
55	13.485	1040	1041	1045	rVB2	489717	704766	13.87%	0.953%
56	13.554	1045	1047	1049	rVB	307398	366915	7.22%	0.496%
57	13.599	1049	1051	1053	rBV	159470	187908	3.70%	0.254%
58	13.691	1055	1059	1060	rBV	1817145	3436495	67.65%	4.646%
59	13.725	1060	1062	1065	rVB	1816200	3225518	63.49%	4.361%
60	13.794	1066	1068	1071	rVB	491716	440995	8.68%	0.596%
61	13.862	1071	1074	1075	rBV2	104344	189094	3.72%	0.256%
62	13.897	1075	1077	1078	rBV2	223818	354678	6.98%	0.480%
63	14.079	1088	1093	1094	rBV2	479729	1051822	20.70%	1.422%
64	14.102	1094	1095	1097	rVV	295688	388117	7.64%	0.525%
65	14.171	1097	1101	1102	rVV3	263567	591343	11.64%	0.800%
66	14.217	1102	1105	1106	rVV3	376036	707097	13.92%	0.956%
67	14.262	1107	1109	1112	rVB4	172769	285492	5.62%	0.386%
68	14.400	1117	1121	1124	rBV3	220363	466248	9.18%	0.630%
69	14.548	1132	1134	1136	rBV	278398	407403	8.02%	0.551%
70	14.594	1136	1138	1141	rVB2	124245	170696	3.36%	0.231%
71	14.651	1141	1143	1144	rBV	146743	216439	4.26%	0.293%

LSC Area Percent Report

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Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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 >
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.708	1144	1148	1153	rVV	1945852	5053639	99.48%	6.833%
73	14.777	1153	1154	1156	rVV	450317	477333	9.40%	0.645%
74	14.845	1159	1160	1163	rBV2	130131	278993	5.49%	0.377%
75	14.948	1166	1169	1172	rBV	1278812	2318815	45.64%	3.135%
76	15.017	1172	1175	1177	rVV	1561639	2461997	48.46%	3.329%
77	15.085	1177	1181	1183	rVB3	676396	1202767	23.68%	1.626%
78	15.200	1188	1191	1192	rVV	149290	291698	5.74%	0.394%
79	15.234	1192	1194	1198	rVV2	220441	474544	9.34%	0.642%
80	15.314	1198	1201	1202	rVV	169548	254405	5.01%	0.344%
81	15.348	1202	1204	1207	rVB	162983	262570	5.17%	0.355%
82	15.417	1207	1210	1212	rBV2	107313	230781	4.54%	0.312%
83	15.520	1217	1219	1221	rVB	120412	145798	2.87%	0.197%
84	15.965	1256	1258	1260	rVV	91617	156086	3.07%	0.211%
85	16.023	1260	1263	1265	rVB4	156569	277690	5.47%	0.375%
86	16.103	1268	1270	1272	rVV3	138681	265540	5.23%	0.359%
87	16.148	1272	1274	1278	rVB2	140347	239772	4.72%	0.324%
88	16.297	1282	1287	1295	rVB2	922818	2632351	51.82%	3.559%
89	16.423	1295	1298	1300	rBV	273233	562041	11.06%	0.760%
90	16.468	1300	1302	1306	rVB2	215494	412839	8.13%	0.558%
91	16.674	1315	1320	1324	rBV	812855	1885456	37.11%	2.549%
92	16.857	1333	1336	1342	rVB2	223743	583885	11.49%	0.789%
93	16.960	1342	1345	1348	rVB2	63924	148541	2.92%	0.201%
94	17.291	1371	1374	1380	rVB2	94319	252540	4.97%	0.341%
95	17.634	1399	1404	1413	rVB6	64696	366552	7.22%	0.496%
96	18.514	1475	1481	1486	rBV	228899	820179	16.14%	1.109%
97	18.686	1491	1496	1500	rBV	171506	650676	12.81%	0.880%
98	18.983	1518	1522	1529	rVB2	52145	168513	3.32%	0.228%
99	19.234	1539	1544	1554	rVB2	51360	243533	4.79%	0.329%
100	19.474	1560	1565	1569	rBV	117340	504759	9.94%	0.682%

Sum of corrected areas: 73961056

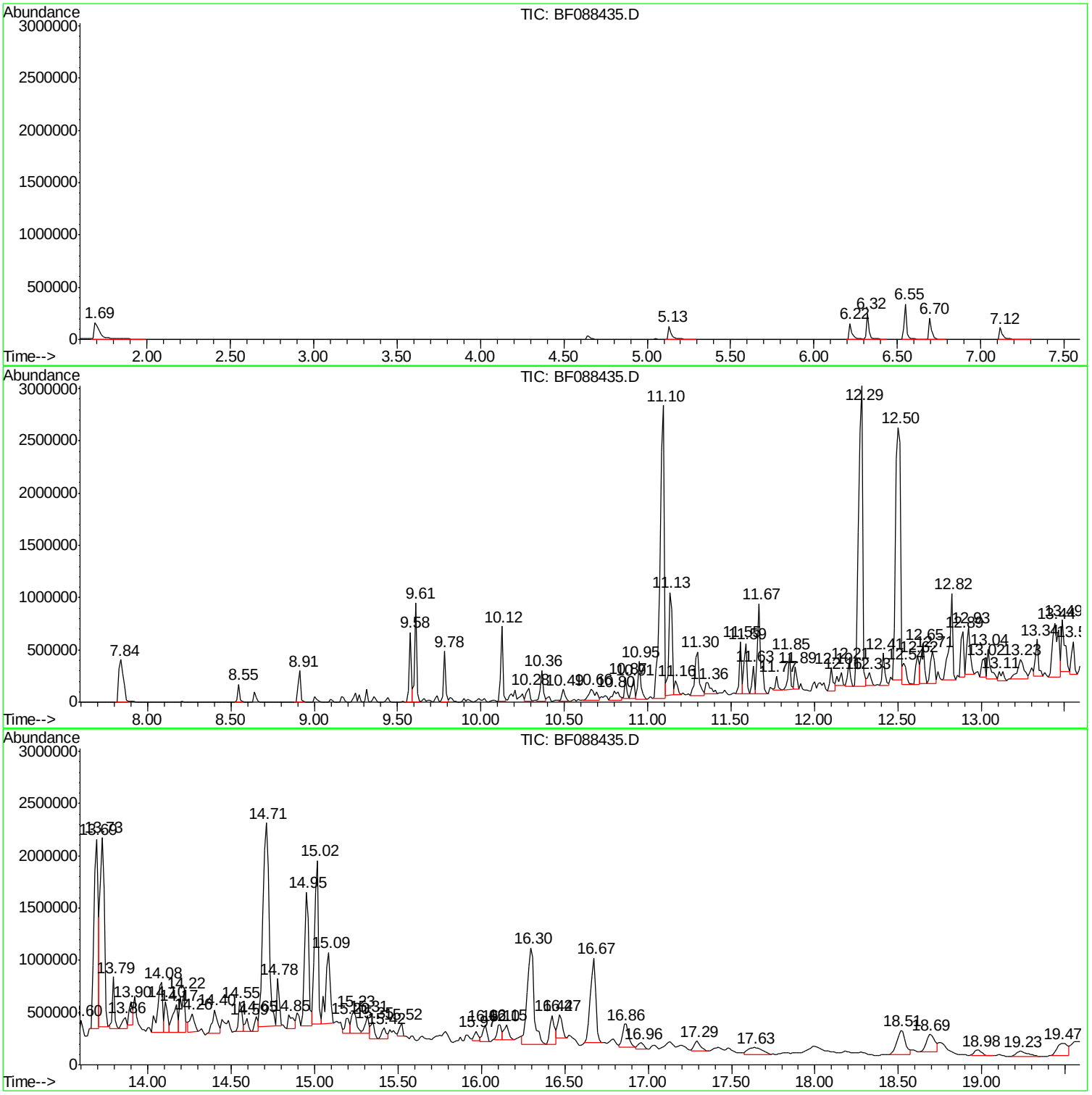
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088435.D
Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088435.D
Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

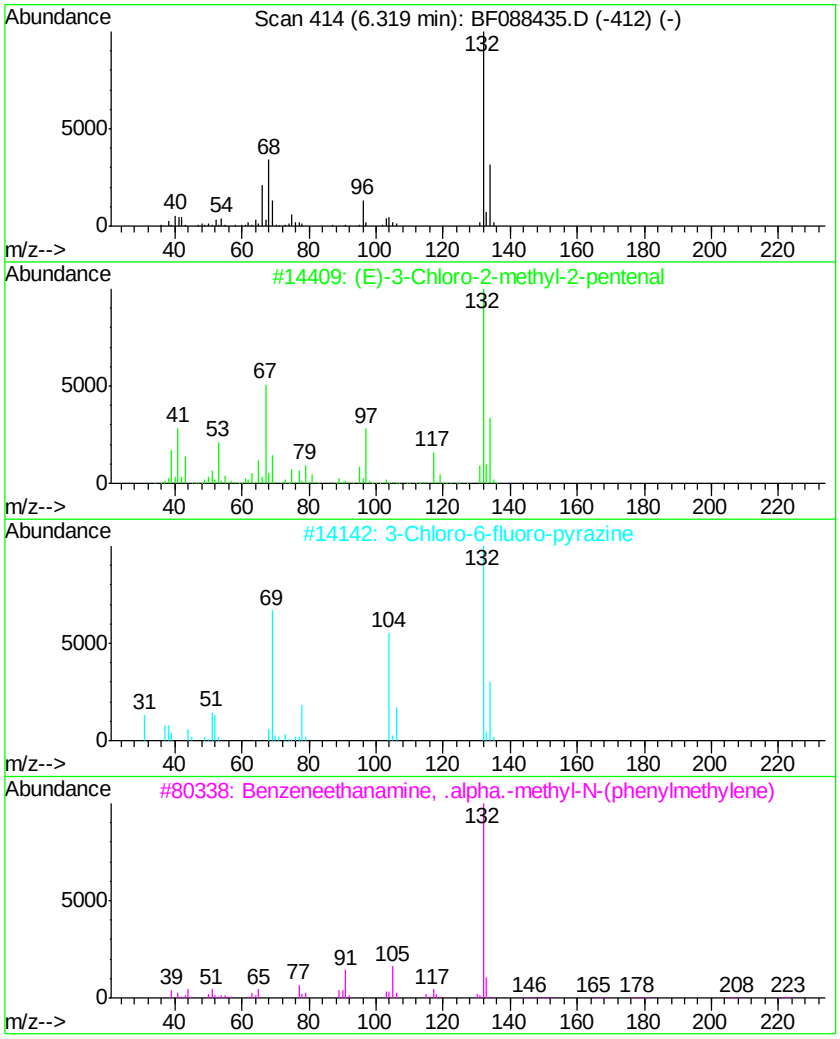
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

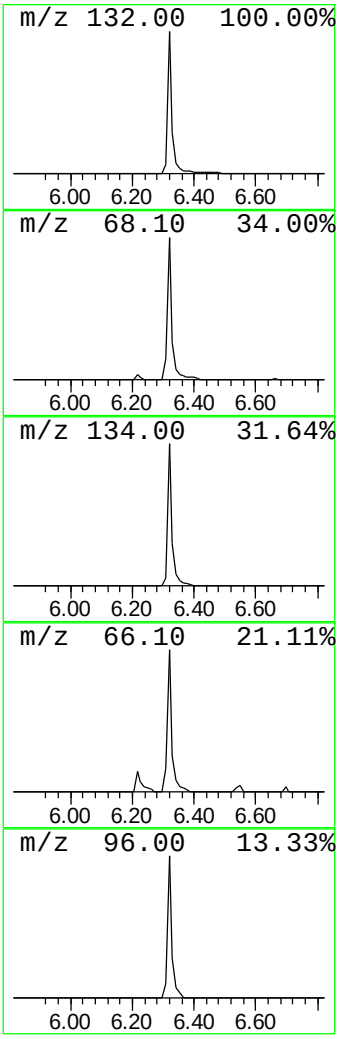
****

Peak Number 2 unknown6.32 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.32	14.34 ng	270237	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
3	Benzeneethanamine, .alpha.-methy...	223	C16H17N	002980-02-1	12
4	Amphetaminil	250	C17H18N2	017590-01-1	12
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088435.D
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Sample : H3663-11 5X
Misc :
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Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

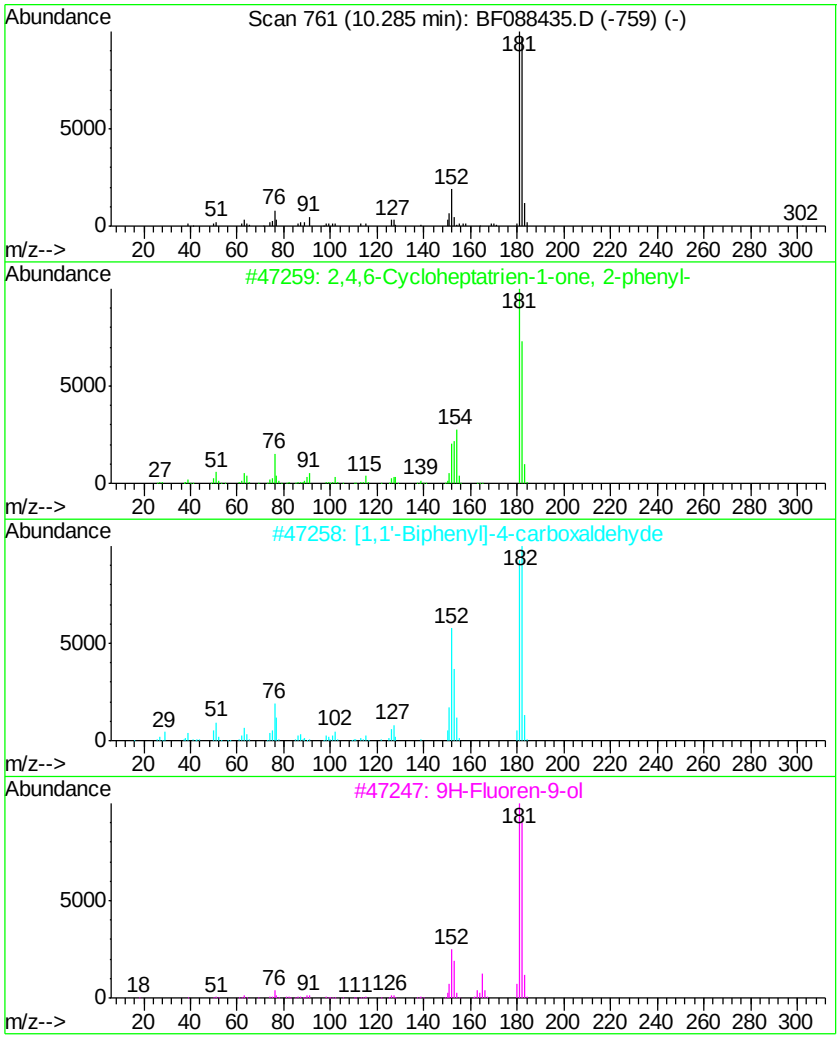
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

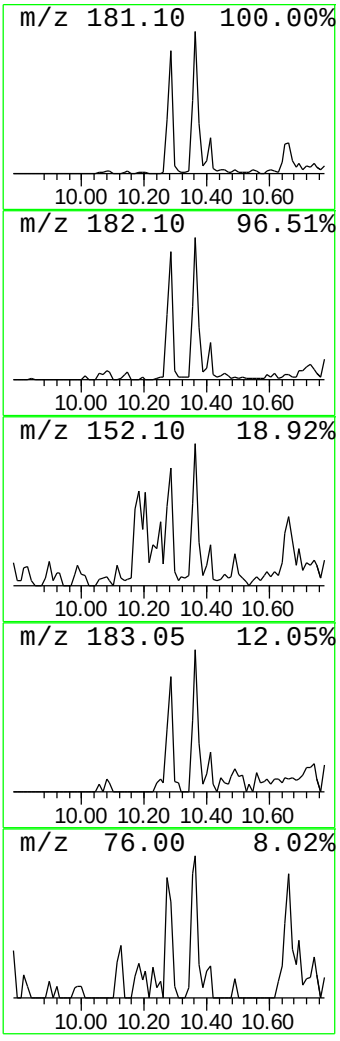
****

Peak Number 4 2,4,6-Cycloheptatrien-1-one... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.28	4.95 ng	152019	Acenaphthene-d10	9.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	72
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	59





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Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

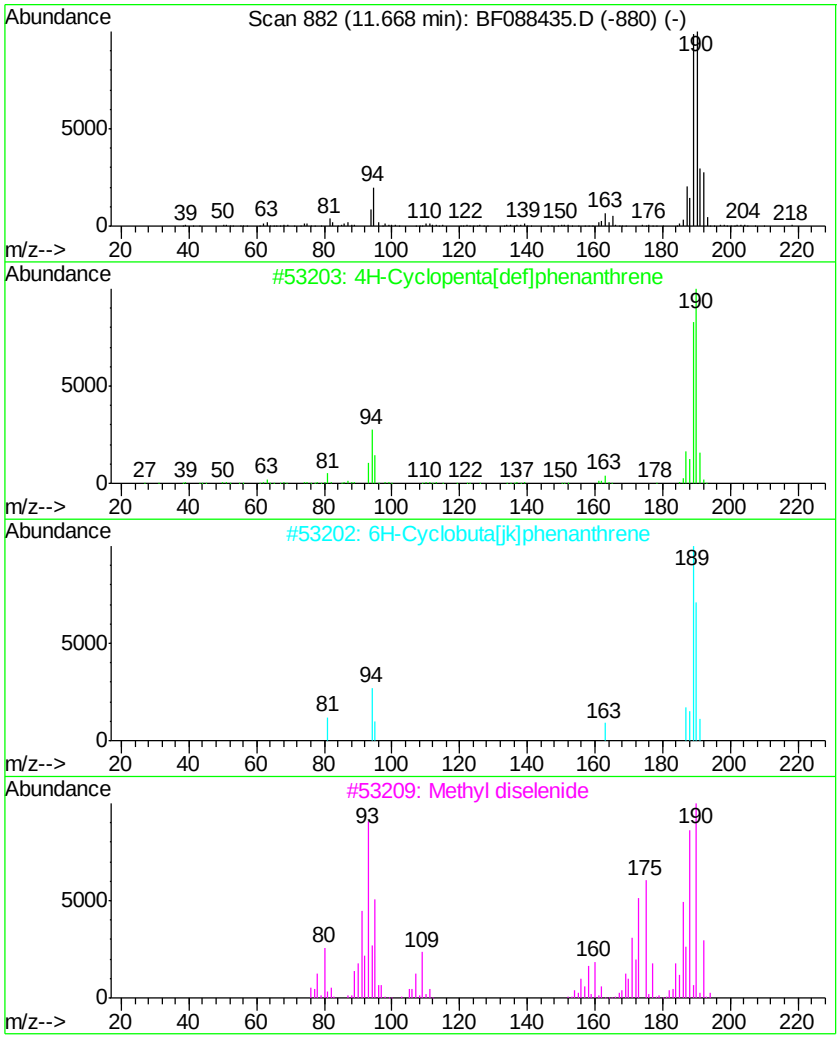
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

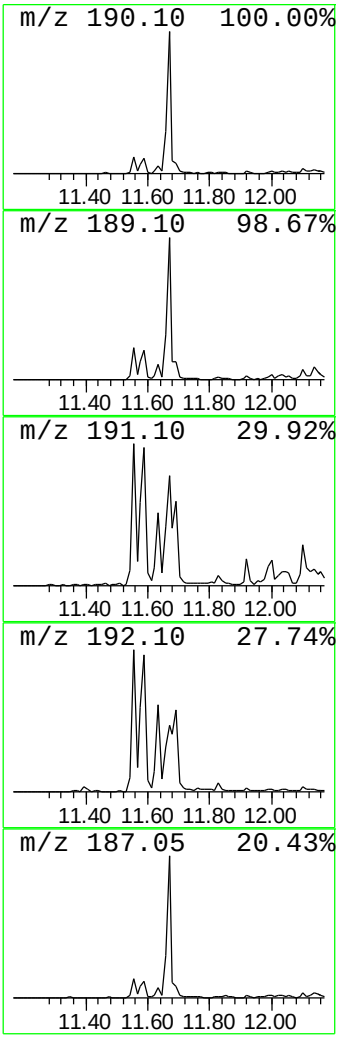
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	5.10 ng	1251390	Phenanthrene-d10	11.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Methyl diselenide	190	C2H6Se2	007101-31-7	55
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





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Misc :
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Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

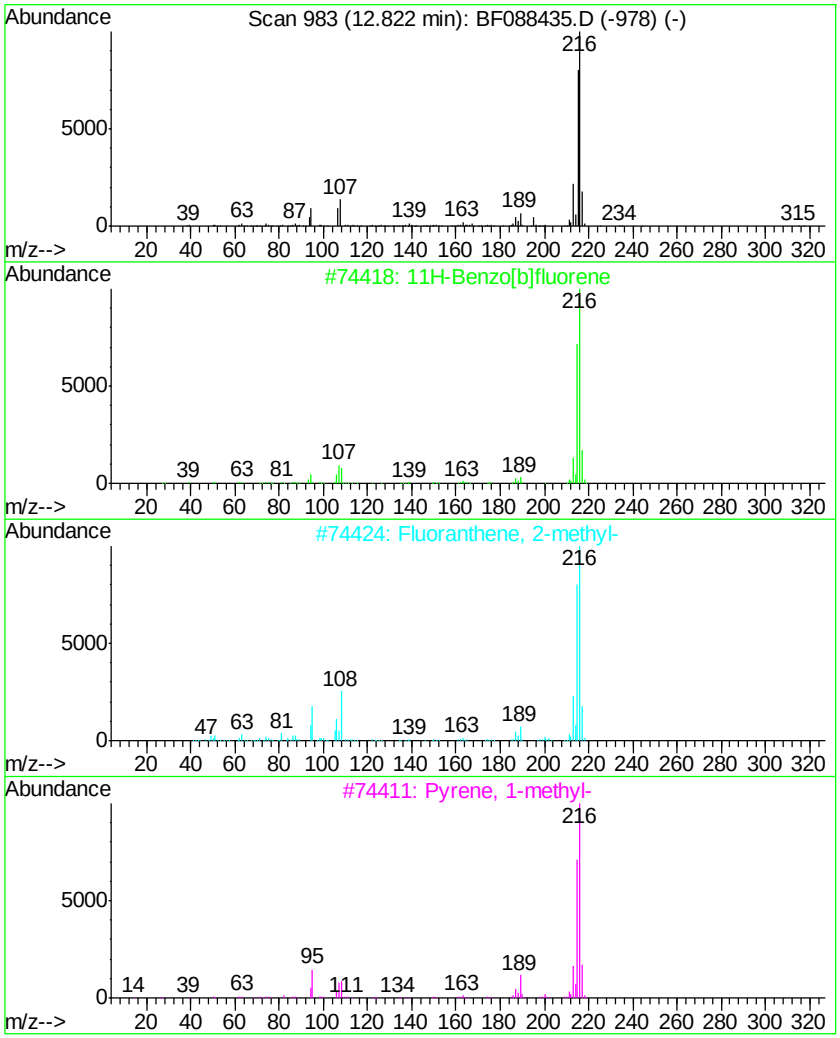
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

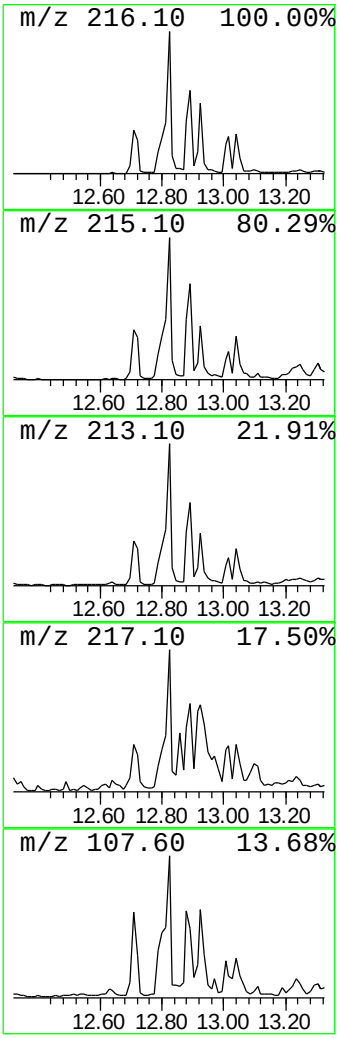
****

Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.82	6.89 ng	1183310	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86





Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088435.D
Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

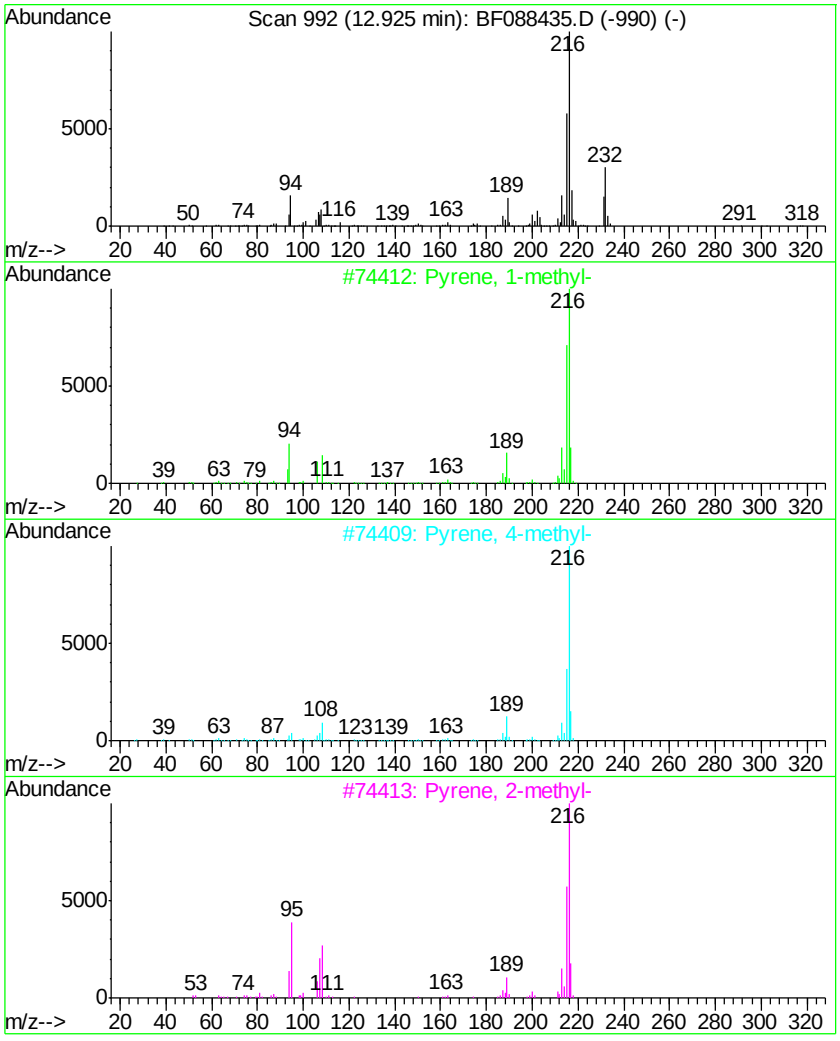
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

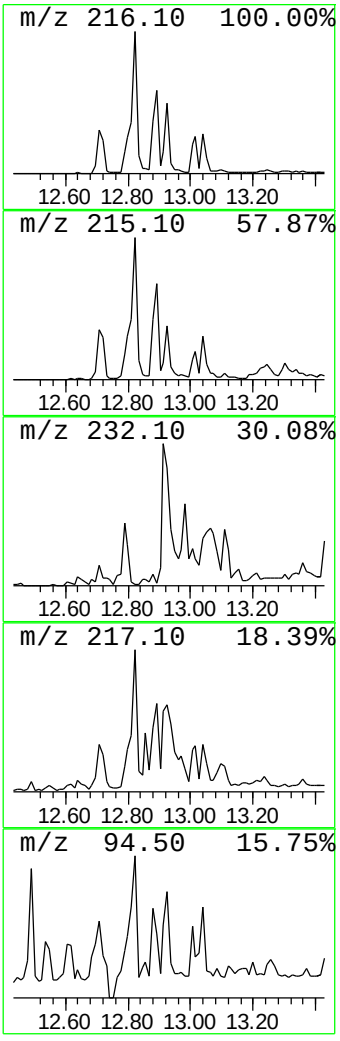
****

Peak Number 7 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	3.88 ng	666235	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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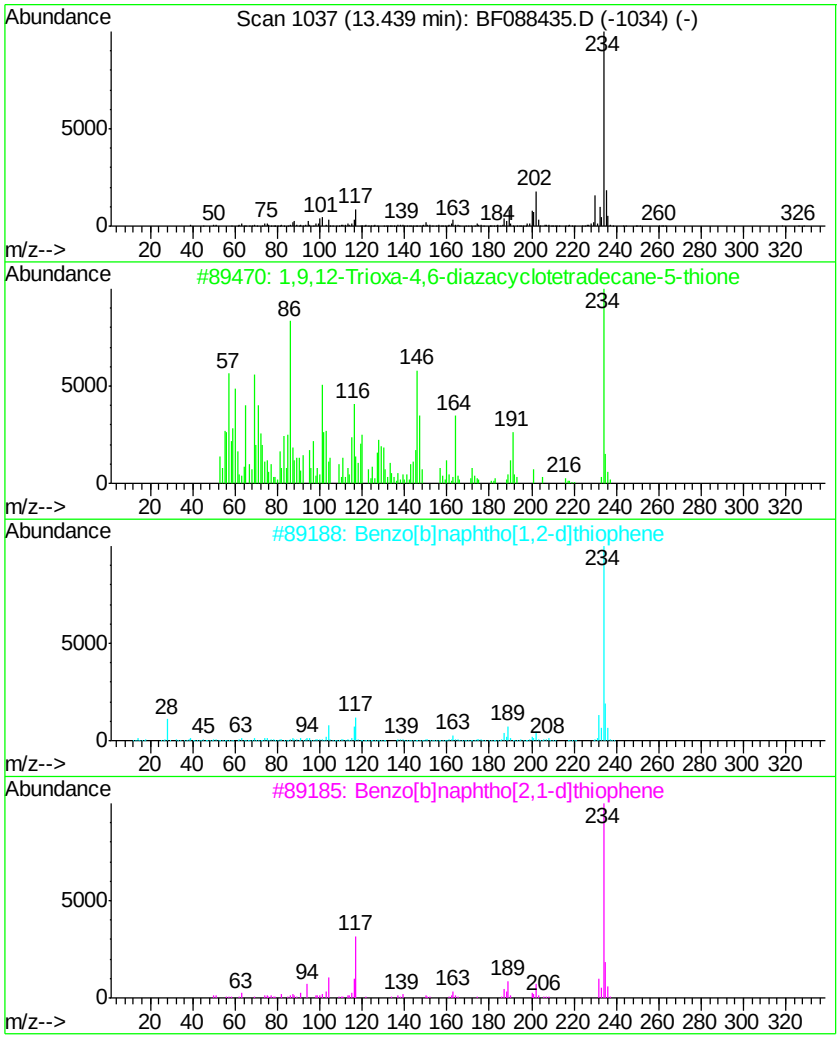
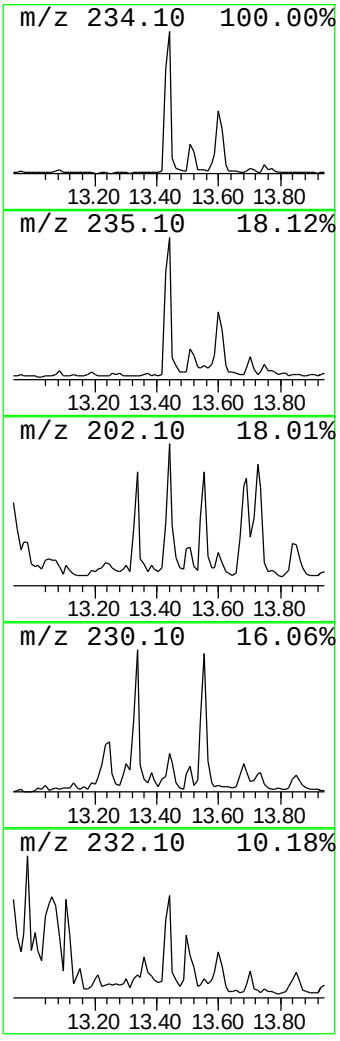
Peak Number 8 1,9,12-Trioxa-4,6-diazacycl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.44	7.54 ng	1295940	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,9,12-Trioxa-4,6-diazacyclotetr...	234	C9H18N2O3S	075491-64-4	90
2	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	89
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87
5	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	70





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Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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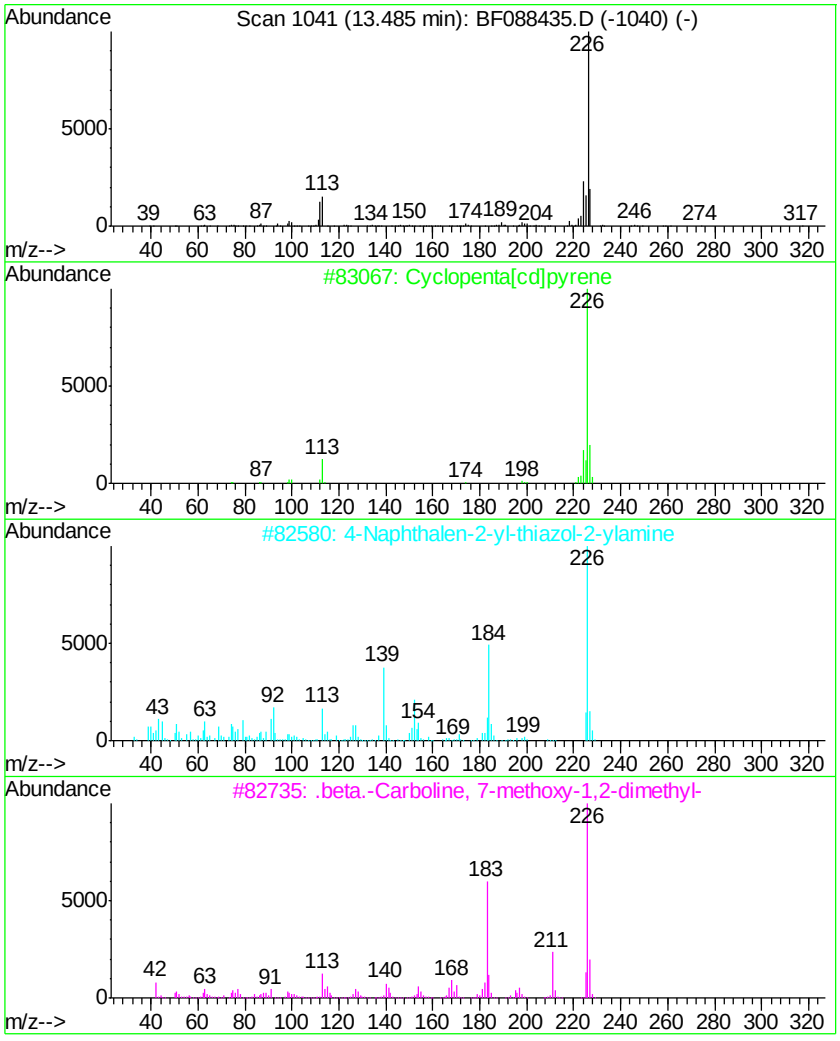
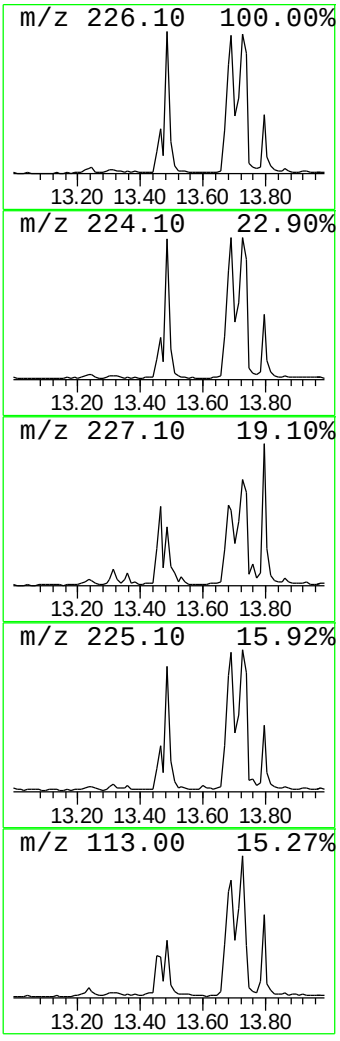
Peak Number 9 Cyclopenta[cd]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	4.10 ng	704766	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	95
2	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	59
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
5	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	36





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Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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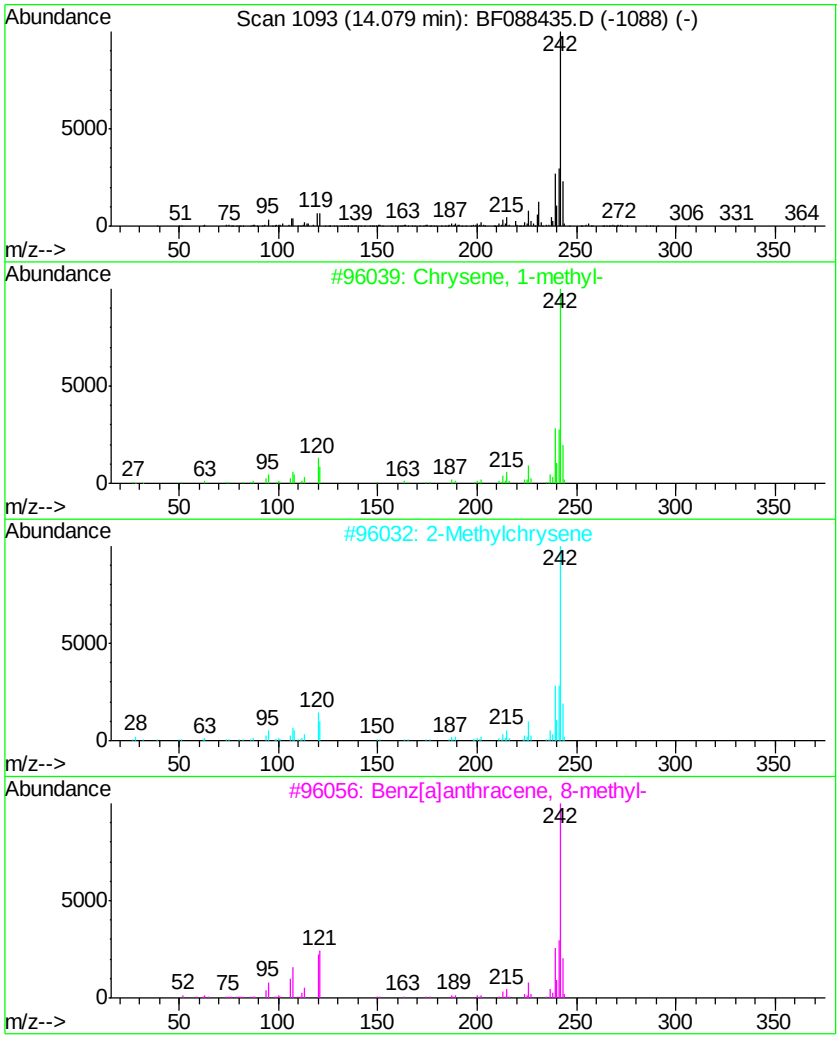
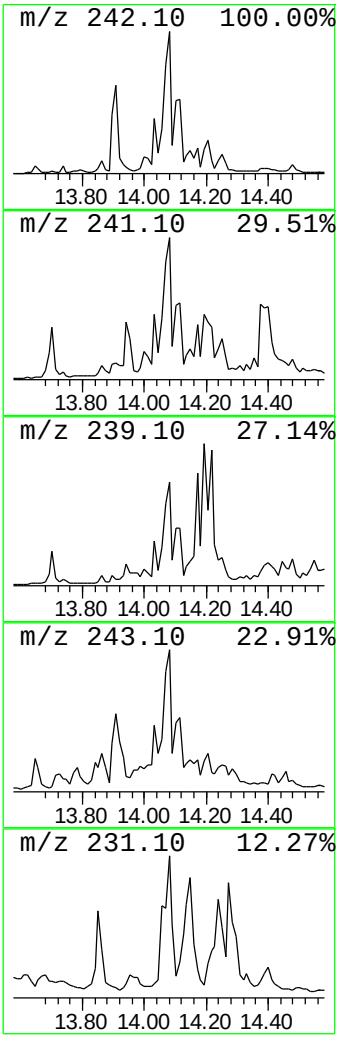
Peak Number 10 Chrysene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	6.12 ng	1051820	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	89
2	2-Methylchrysene	242	C19H14	003351-32-4	89
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	89
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	89
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	89





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Operator : UM/SJ
Sample : H3663-11 5X
Misc :
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Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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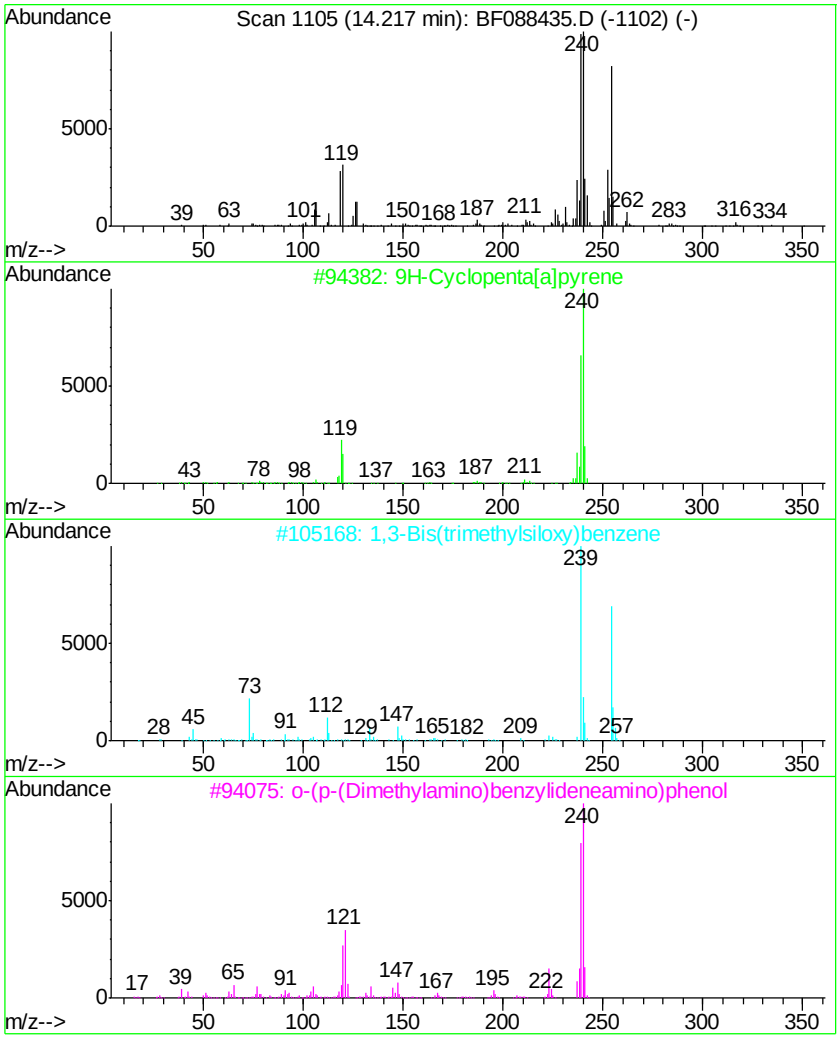
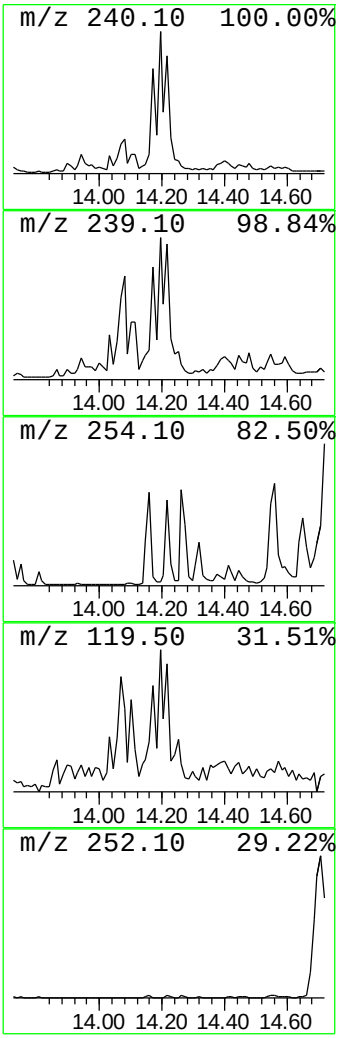
Peak Number 11 9H-Cyclopenta[a]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	4.12 ng	707097	Chrysene-d12	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Cyclopenta[a]pyrene	240	C19H12	050861-05-7	60
2	1,3-Bis(trimethylsiloxy)benzene	254	C12H22O2Si2	004520-29-0	46
3	o-(p-(Dimethylamino)benzylidenea...	240	C15H16N2O	023837-35-6	43
4	Hydroquinone bis(trimethylsilyl)...	254	C12H22O2Si2	002117-24-0	43
5	Naphthalen-1(2H)-one, 3,4-dihydr...	254	C16H14OS	351066-46-1	38





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Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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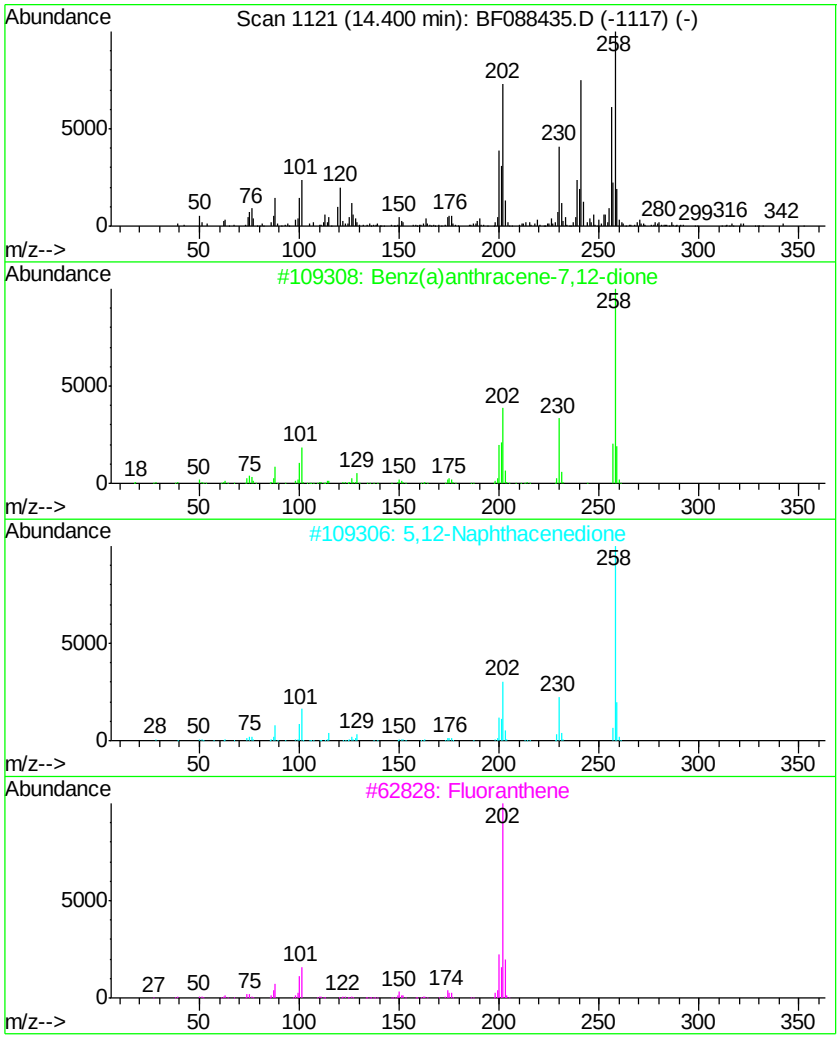
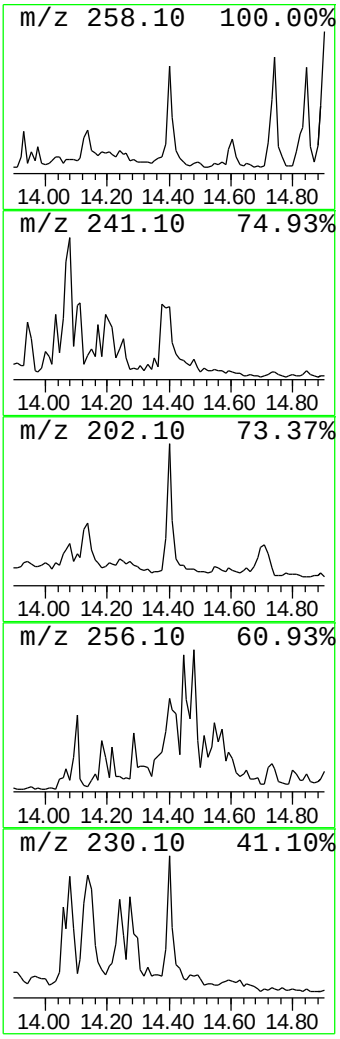
Peak Number 12 Benz(a)anthracene-7,12-dione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.40	3.79 ng	466248	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	93
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	91
3	Fluoranthene	202	C16H10	000206-44-0	59
4	1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	50
5	1,4-Chrysenequinone	258	C18H10O2	100900-16-1	27





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Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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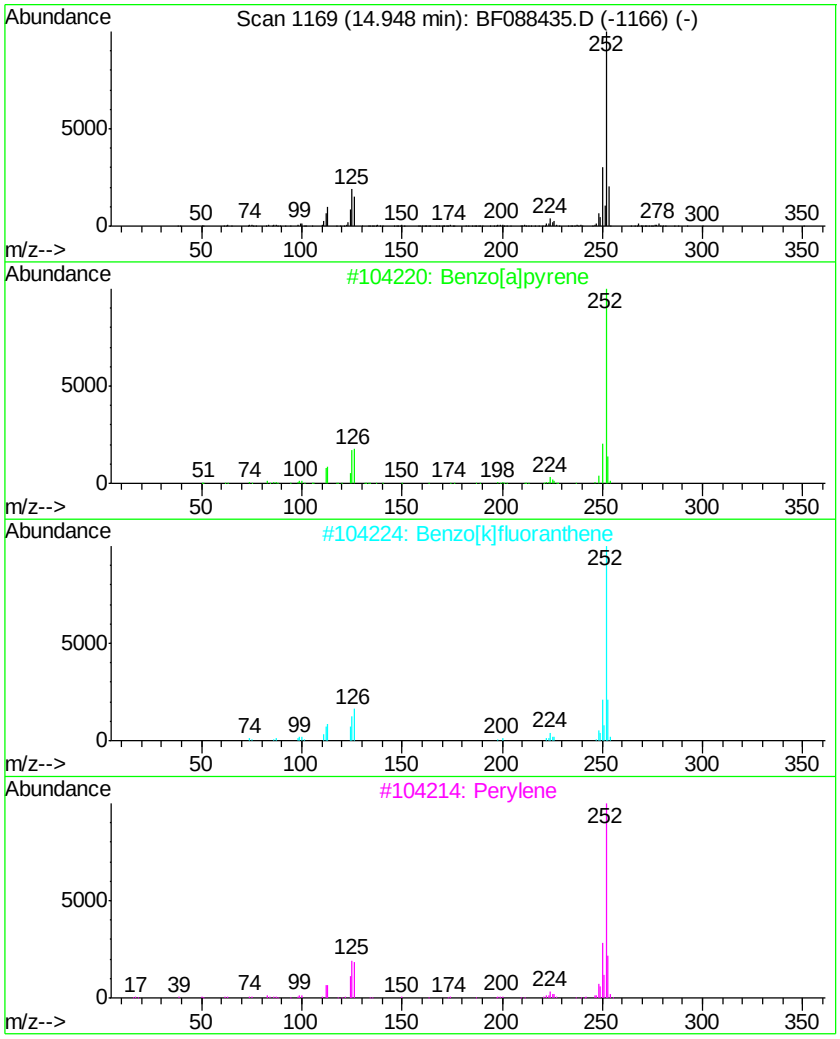
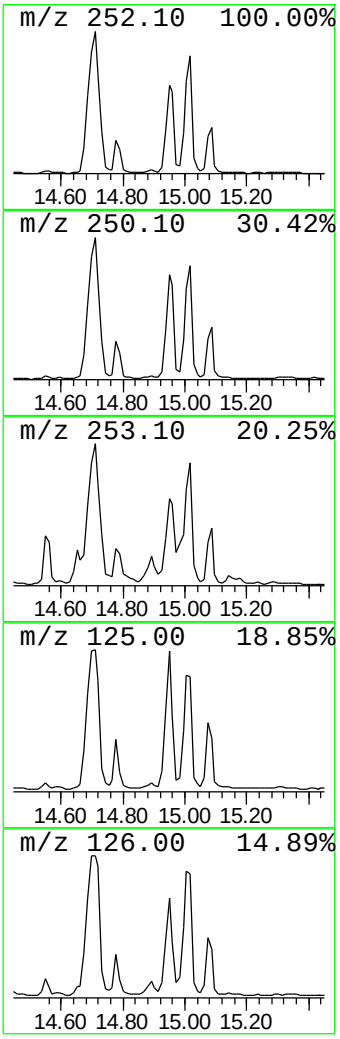
Peak Number 14 Benzo[a]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.95	18.84 ng	2318820	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	95
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[e]pyrene	252	C20H12	000192-97-2	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





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Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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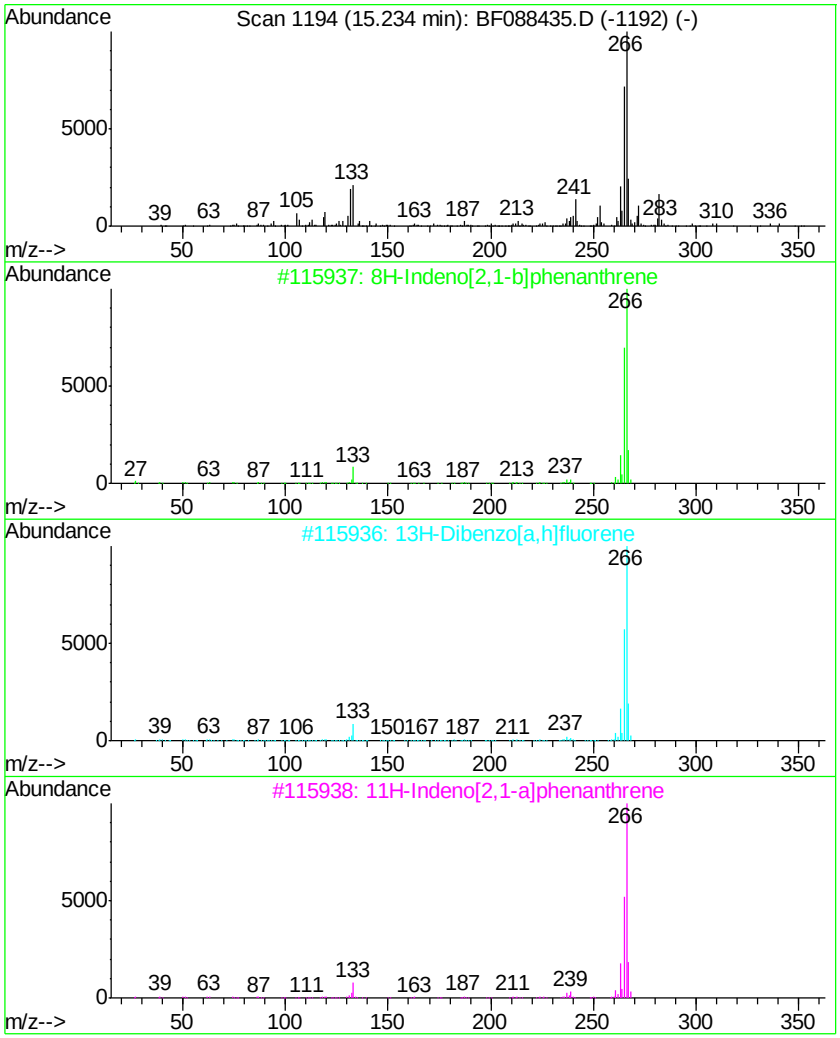
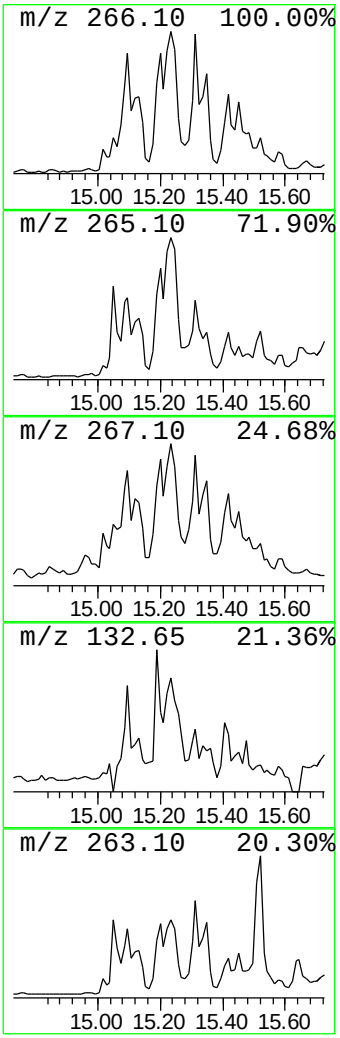
Peak Number 15 8H-Indeno[2,1-b]phenanthrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.23	3.85 ng	474544	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	94
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	64
3	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	64
4	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55
5	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	52





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Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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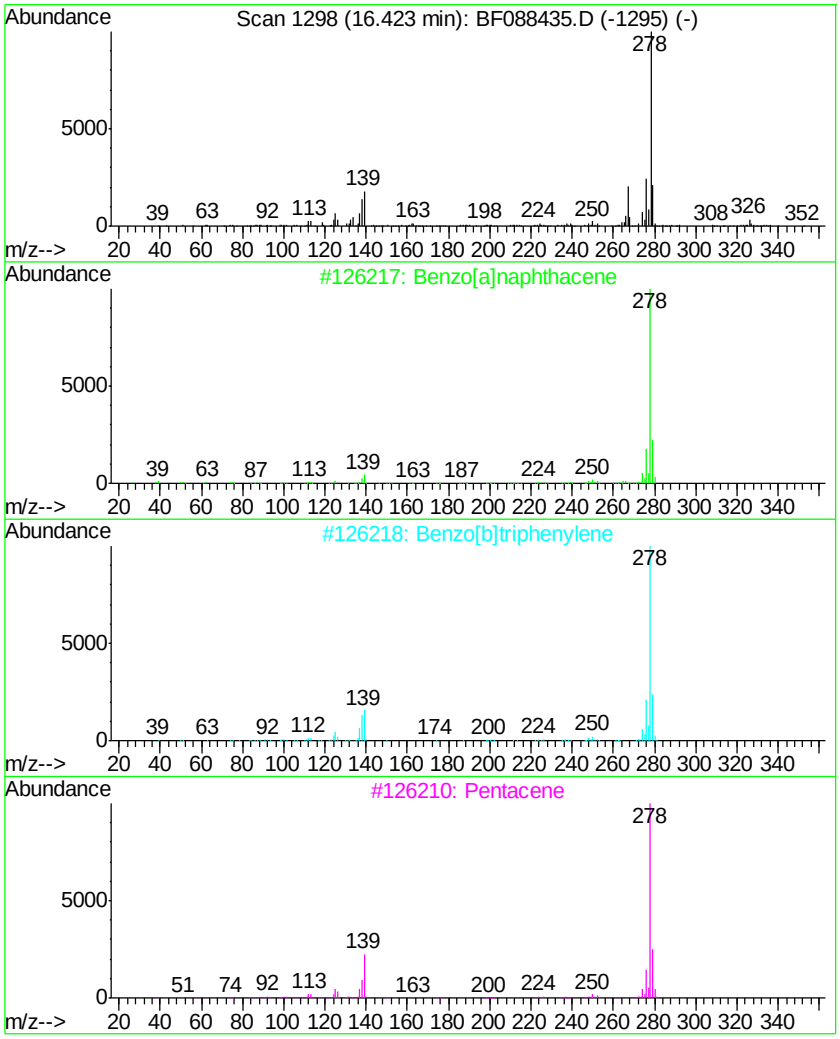
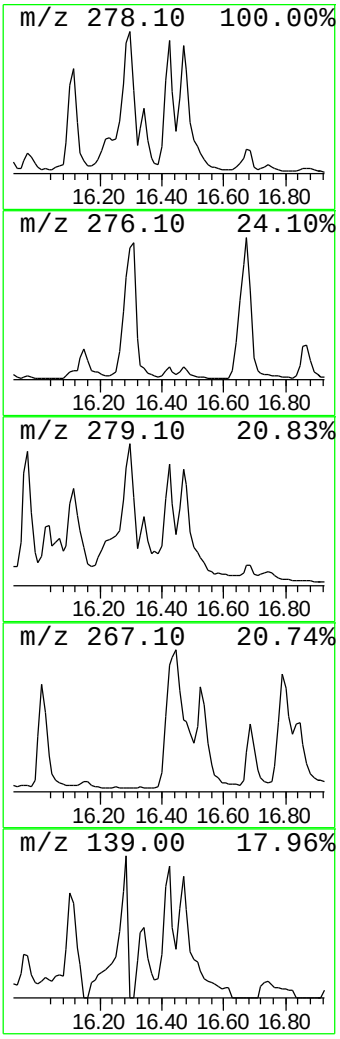
Peak Number 16 Benzo[a]naphthacene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.42	4.57 ng	562041	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]naphthacene	278	C22H14	000226-88-0	92
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	92
3	Pentacene	278	C22H14	000135-48-8	92
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	91
5	Picene	278	C22H14	000213-46-7	90





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Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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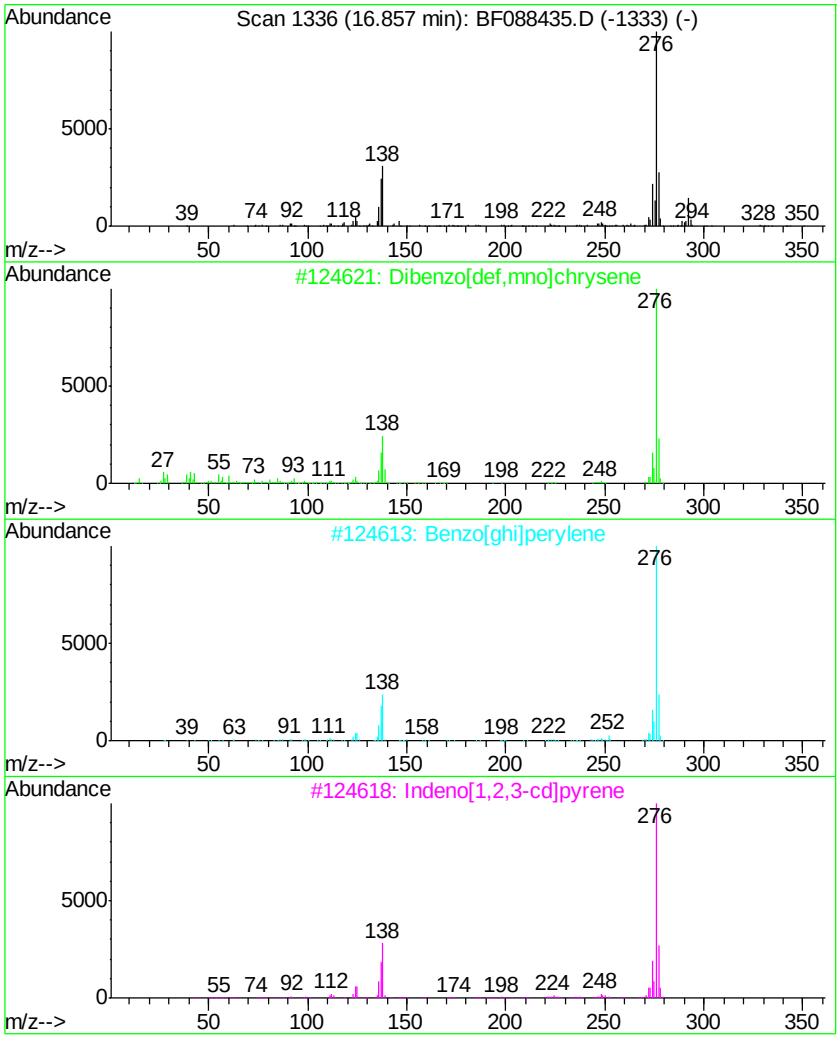
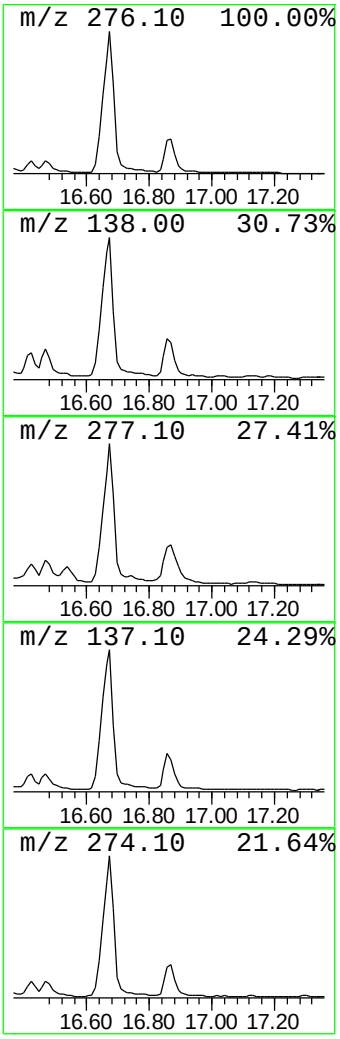
Peak Number 17 Dibenzo[def,mno]chrysene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	4.74 ng	583885	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	81
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	49





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Sample : H3663-11 5X
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ClientSampleId : TP-6

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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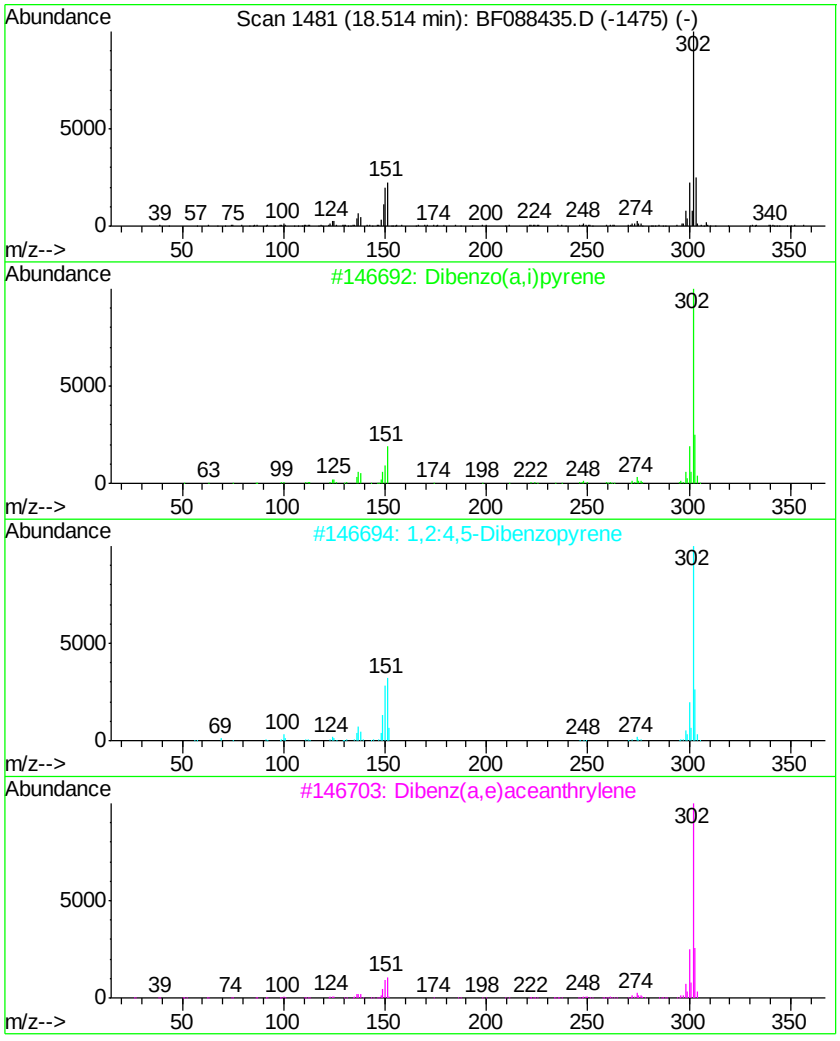
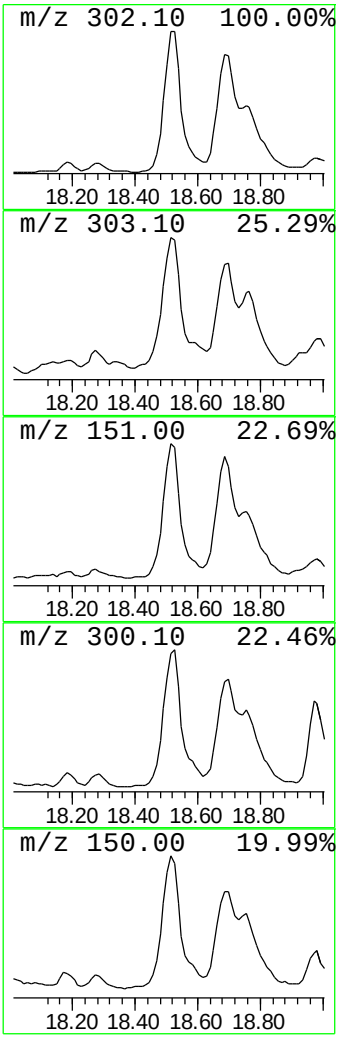
Peak Number 18 Dibenzo(a,i)pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.51	6.66 ng	820179	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	94
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
3	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	93
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	93
5	1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	86





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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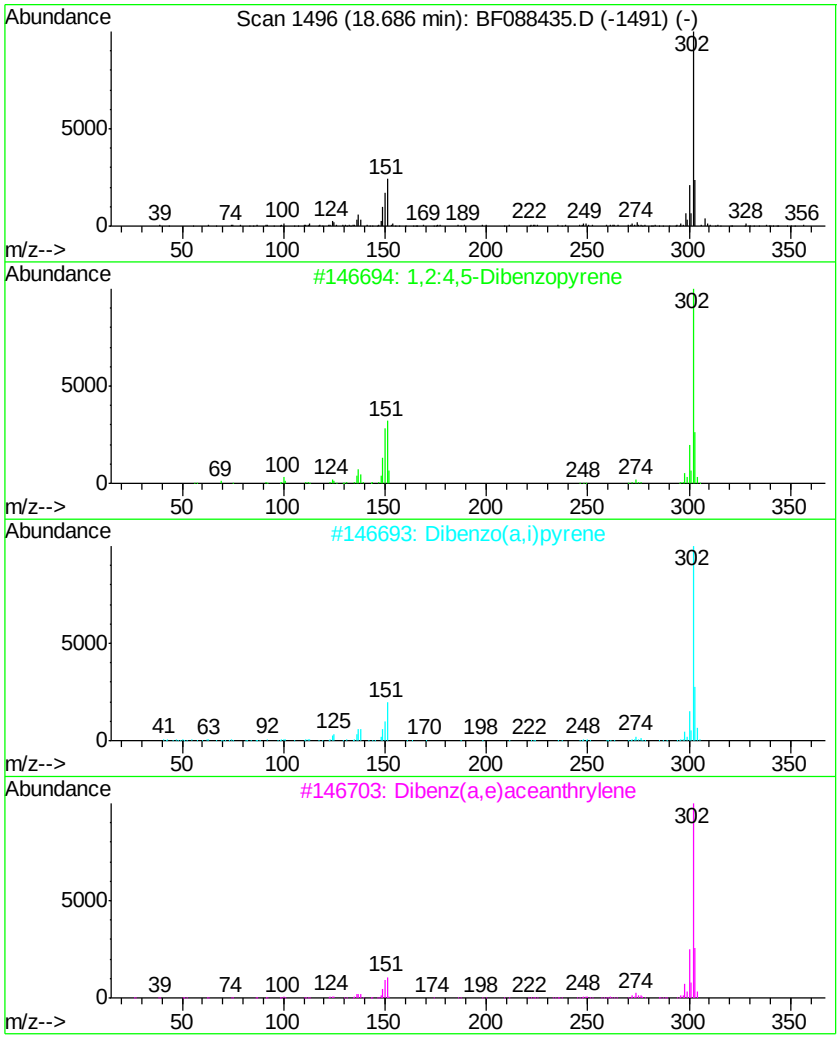
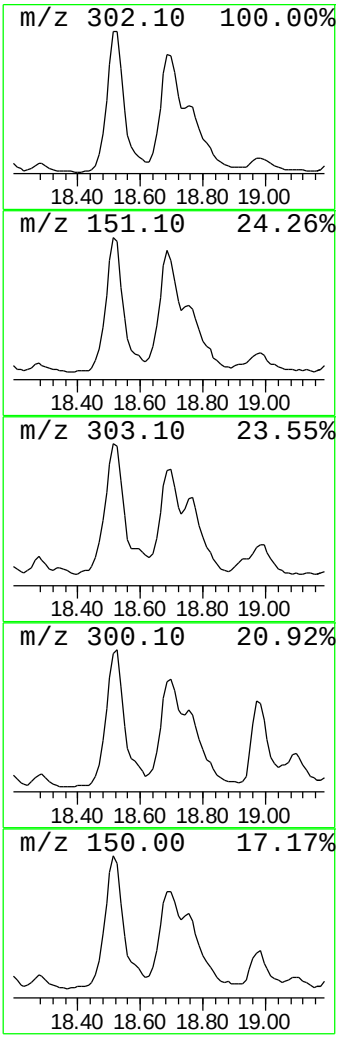
Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.69	5.29 ng	650676	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
2	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	91
3	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	87
5	Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	58





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Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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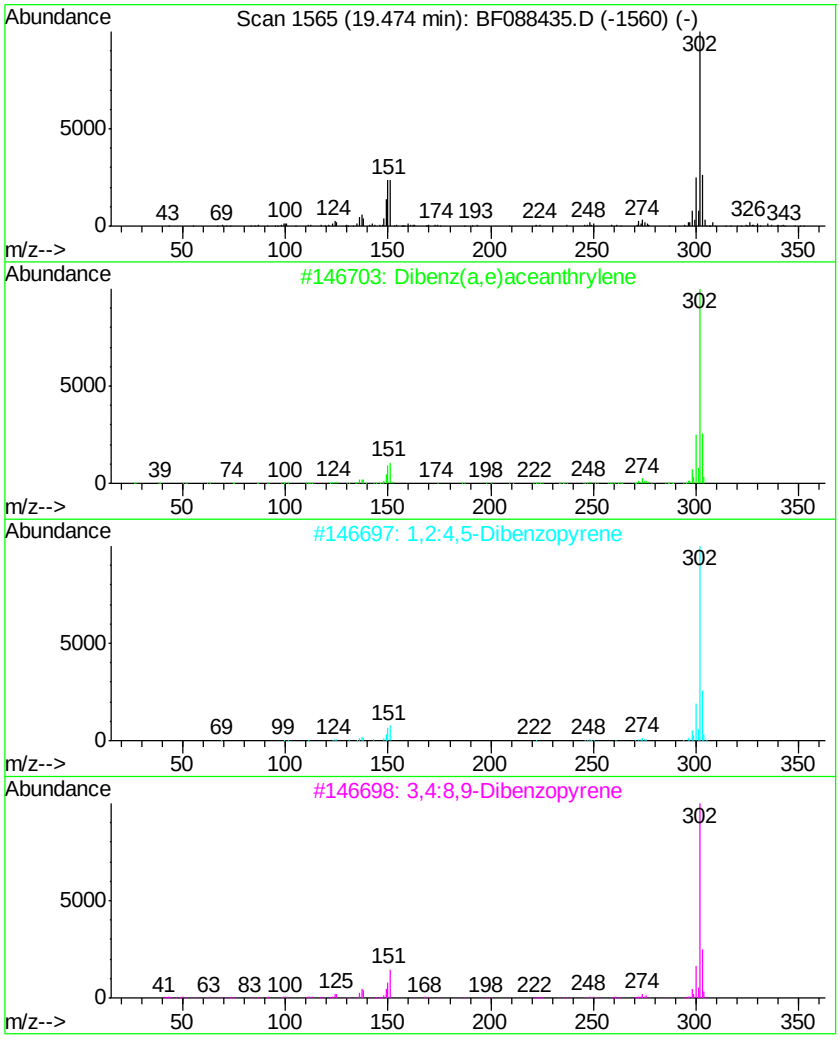
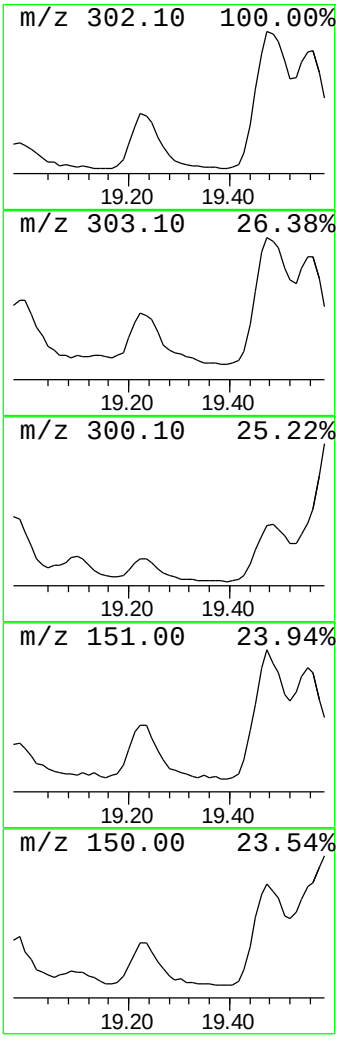
Peak Number 20 Dibenz(a,e)aceanthrylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.47	4.10 ng	504759	Perylene-d12	15.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	98
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	97
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
4	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	96
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062616\
Data File : BF088435.D
Acq On : 26 Jun 2016 23:19
Operator : UM/SJ
Sample : H3663-11 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.32	6.32	14.3	ng	270237	1	6.55	376963	20.0
2,4,6-Cycloheptat...	10.28	5.0	ng	152019	3	9.58	614099	20.0
4H-Cyclopenta[def...	11.67	5.1	ng	1251390	4	11.06	4911560	20.0
11H-Benzo[b]fluorene	12.82	6.9	ng	1183310	5	13.70	3436500	20.0
Pyrene, 1-methyl-	12.93	3.9	ng	666235	5	13.70	3436500	20.0
1,9,12-Trioxa-4,6...	13.44	7.5	ng	1295940	5	13.70	3436500	20.0
Cyclopenta[cd]pyrene	13.49	4.1	ng	704766	5	13.70	3436500	20.0
Chrysene, 1-methyl-	14.08	6.1	ng	1051820	5	13.70	3436500	20.0
9H-Cyclopenta[a]p...	14.22	4.1	ng	707097	5	13.70	3436500	20.0
Benz(a)anthracene...	14.40	3.8	ng	466248	6	15.05	2462000	20.0
Benzo[a]pyrene	14.95	18.8	ng	2318820	6	15.05	2462000	20.0
8H-Indeno[2,1-b]p...	15.23	3.9	ng	474544	6	15.05	2462000	20.0
Benzo[a]naphthacene	16.42	4.6	ng	562041	6	15.05	2462000	20.0
Dibenzo[def,mno]c...	16.86	4.7	ng	583885	6	15.05	2462000	20.0
Dibenzo(a,i)pyrene	18.51	6.7	ng	820179	6	15.05	2462000	20.0
1,2:4,5-Dibenzopy...	18.69	5.3	ng	650676	6	15.05	2462000	20.0
Dibenz(a,e)aceant...	19.47	4.1	ng	504759	6	15.05	2462000	20.0