LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088425.D
Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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	40	rVB	241329	500221	20.47%	1.573%
2	4.662	267	269	286	rBV	211793	355967	14.57%	1.120%
3	5.130	308	310	340	rBV	1067691	1385216	56.70%	4.357%
4	6.216	402	405	412	rBV	1190538	1443589	59.08%	4.540%
5	6.319	412	414	427	rVB	1469815	1563187	63.98%	4.917%
6	6.547	432	434	445	rBV	361911	391379	16.02%	1.231%
7	6.696	445	447	450	rBV	993781	1104495	45.21%	3.474%
8	7.119	482	484	502	rBV	641556	902286	36.93%	2.838%
9	7.828	544	546	549	rBV	377733	533727	21.84%	1.679%
10	8.913	638	641	643	rBV	1656721	1724395	70.58%	5.424%
11	9.313	674	676	678	rBV	292766	255504	10.46%	0.804%
12	9.576	696	699	701	rVV	726285	647826	26.51%	2.038%
13	9.611	701	702	705	rVB	44802	37521	1.54%	0.118%
14	10.022	736	738	740	rVB	36568	29437	1.20%	0.093%
15	10.365	765	768	777	rBV	906292	959753	39.28%	3.019%
16	10.491	777	779	784	rVB	60288	80703	3.30%	0.254%
17	10.936	817	818	819	rBV	52025	42176	1.73%	0.133%
18	10.959	819	820	823	rVB	21854	25176	1.03%	0.079%
19	11.051	826	828	829	rBV	616817	568876	23.28%	1.789%
20	11.131	833	835	837	rVV	75558	86363	3.53%	0.272%
21	11.176	837	839	843	rVV2	13244	25415	1.04%	0.080%
22	11.302	846	850	853	rVV2	32816	64693	2.65%	0.203%
23	11.359	853	855	860	rVB	50127	57104	2.34%	0.180%
24	11.554	867	872	873	rBV3	41833	48598	1.99%	0.153%
25	11.577	873	874	877	rVV	41597	66475	2.72%	0.209%
26	11.634	877	879	880	rVV	25133	38546	1.58%	0.121%
27	11.657	880	881	887	rVB	80677	131925	5.40%	0.415%
28	11.759	889	890	895	rVB2	18023	33042	1.35%	0.104%
29	11.851	895	898	900	rBV	32659	37572	1.54%	0.118%
30	12.102	918	920	921	rBV	40161	49926	2.04%	0.157%
31	12.148	921	924	926	rVV3	41545	76866	3.15%	0.242%
32	12.194	926	928	931	rVB2	43208	55870	2.29%	0.176%
33	12.262	931	934	936	rBV	1056790	1203789	49.27%	3.786%
34	12.331	939	940	944	rVB2	22157	37895	1.55%	0.119%

LSC Area Percent Report

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Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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	12.399	944	946	948	rBV	34911	51071	2.09%	0.161%
36	12.479	950	953	956	rBV2	900841	1230604	50.37%	3.871%
37	12.537	956	958	962	rVB2	58297	91591	3.75%	0.288%
38	12.628	964	966	970	rVV	961964	1358038	55.58%	4.271%
39	12.708	970	973	975	rVB2	58519	99236	4.06%	0.312%
40	12.811	978	982	984	rBV2	118093	225506	9.23%	0.709%
41	12.880	984	988	989	rBV	101902	104126	4.26%	0.328%
42	12.914	989	991	995	rVB	115720	155896	6.38%	0.490%
43	13.005	997	999	1000	rBV	60191	45336	1.86%	0.143%
44	13.040	1000	1002	1007	rVB2	46373	76847	3.15%	0.242%
45	13.108	1007	1008	1012	rVB2	19067	26236	1.07%	0.083%
46	13.211	1013	1017	1020	rBV4	29618	80343	3.29%	0.253%
47	13.291	1023	1024	1026	rBV2	20656	35164	1.44%	0.111%
48	13.325	1026	1027	1031	rVB	109948	114350	4.68%	0.360%
49	13.428	1033	1036	1039	rBV2	190337	349085	14.29%	1.098%
50	13.474	1039	1040	1044	rVB3	114881	204285	8.36%	0.643%
51	13.542	1044	1046	1049	rVB	93144	113322	4.64%	0.356%
52	13.600	1049	1051	1054	rVB	44435	54496	2.23%	0.171%
53	13.668	1054	1057	1059	rBV2	848105	1703666	69.73%	5.358%
54	13.702	1059	1060	1065	rVB	816611	1185042	48.50%	3.727%
55	13.782	1065	1067	1069	rVB	102157	112547	4.61%	0.354%
56	13.840	1069	1072	1075	rBV3	45608	104800	4.29%	0.330%
57	13.897	1075	1077	1078	rBV2	42396	65742	2.69%	0.207%
58	14.068	1087	1092	1093	rBV2	113295	238499	9.76%	0.750%
59	14.102	1093	1095	1096	rVV2	59461	97574	3.99%	0.307%
60	14.148	1096	1099	1101	rVV3	82998	197529	8.08%	0.621%
61	14.205	1101	1104	1106	rVV2	88494	172375	7.06%	0.542%
62	14.262	1106	1109	1112	rVB2	73488	117892	4.83%	0.371%
63	14.388	1116	1120	1123	rBV4	46418	118939	4.87%	0.374%
64	14.434	1123	1124	1129	rVB4	38760	68156	2.79%	0.214%
65	14.537	1132	1133	1135	rVV	97538	126332	5.17%	0.397%
66	14.583	1135	1137	1139	rVV3	36824	52047	2.13%	0.164%
67	14.628	1139	1141	1143	rVV2	42450	78712	3.22%	0.248%
68	14.674	1143	1145	1149	rVV	1213121	2443263	100.00%	7.685%
69	14.765	1152	1153	1155	rVV	133569	137837	5.64%	0.434%
70	14.845	1157	1160	1161	rVV2	75201	148000	6.06%	0.465%
71	14.925	1165	1167	1170	rVV	853826	1122356	45.94%	3.530%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
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Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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
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Peak separation: 5

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

72	14.983	1170	1172	1175	rVV	557510	790131	32.34%	2.485%
73	15.028	1175	1176	1184	rVV2	353083	754675	30.89%	2.374%
74	15.143	1184	1186	1187	rVV	38938	55723	2.28%	0.175%
75	15.177	1187	1189	1191	rVV2	36590	64380	2.64%	0.202%
76	15.211	1191	1192	1197	rVV2	34333	88805	3.63%	0.279%
77	15.291	1197	1199	1201	rVB	18545	27686	1.13%	0.087%
78	15.394	1206	1208	1210	rBV2	16990	26299	1.08%	0.083%
79	15.463	1210	1214	1215	rBV2	16021	34553	1.41%	0.109%
80	15.497	1215	1217	1221	rVB	33723	54273	2.22%	0.171%
81	15.565	1221	1223	1227	rVB5	13233	25096	1.03%	0.079%
82	15.634	1227	1229	1235	rVB4	14849	31673	1.30%	0.100%
83	15.771	1239	1241	1245	rVB3	17442	38294	1.57%	0.120%
84	15.863	1245	1249	1250	rBV2	22902	43943	1.80%	0.138%
85	15.954	1254	1257	1259	rBV	20053	35474	1.45%	0.112%
86	16.011	1259	1262	1264	rVB2	24568	45948	1.88%	0.145%
87	16.091	1264	1269	1270	rBV3	57869	121307	4.96%	0.382%
88	16.126	1270	1272	1275	rVB	45534	70334	2.88%	0.221%
89	16.251	1280	1283	1288	rBV	345137	703602	28.80%	2.213%
90	16.400	1293	1296	1298	rBV	53709	107091	4.38%	0.337%
91	16.446	1298	1300	1304	rVB2	61269	114164	4.67%	0.359%
92	16.617	1312	1315	1322	rBV	279781	591816	24.22%	1.861%
93	16.834	1331	1334	1341	rVB	46416	120171	4.92%	0.378%
94	17.394	1379	1383	1386	rBV4	9908	30958	1.27%	0.097%
95	17.474	1387	1390	1395	rVB6	11924	33294	1.36%	0.105%
96	18.183	1442	1452	1454	rBV7	7606	41631	1.70%	0.131%
97	18.491	1473	1479	1486	rBV	46824	204264	8.36%	0.642%
98	18.663	1489	1494	1498	rBV	32946	120423	4.93%	0.379%
99	18.983	1516	1522	1529	rBV4	10761	45318	1.85%	0.143%
100	19.452	1558	1563	1568	rBV	23923	100452	4.11%	0.316%

Sum of corrected areas: 31794131

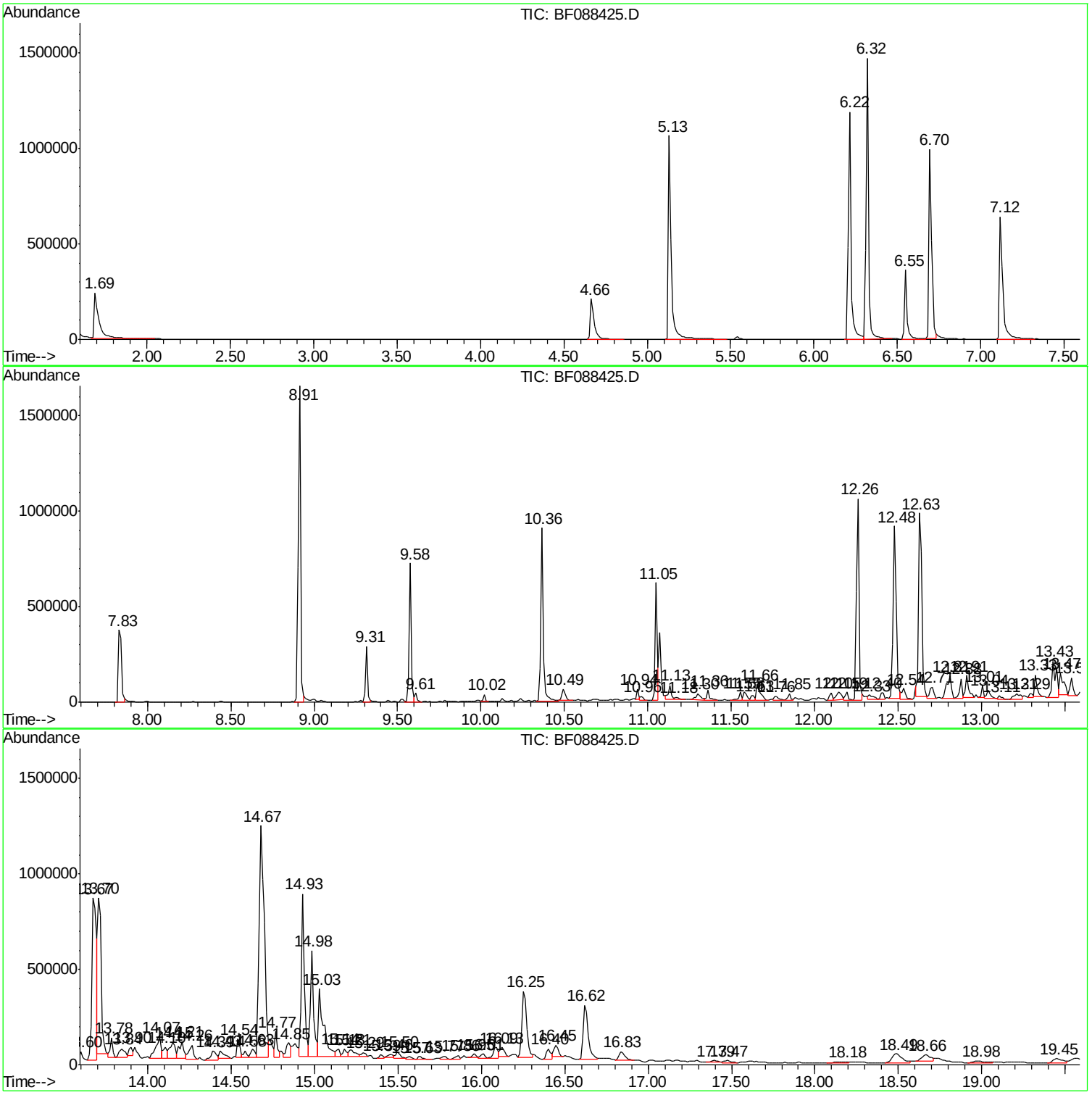
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088425.D
Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-14

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088425.D
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

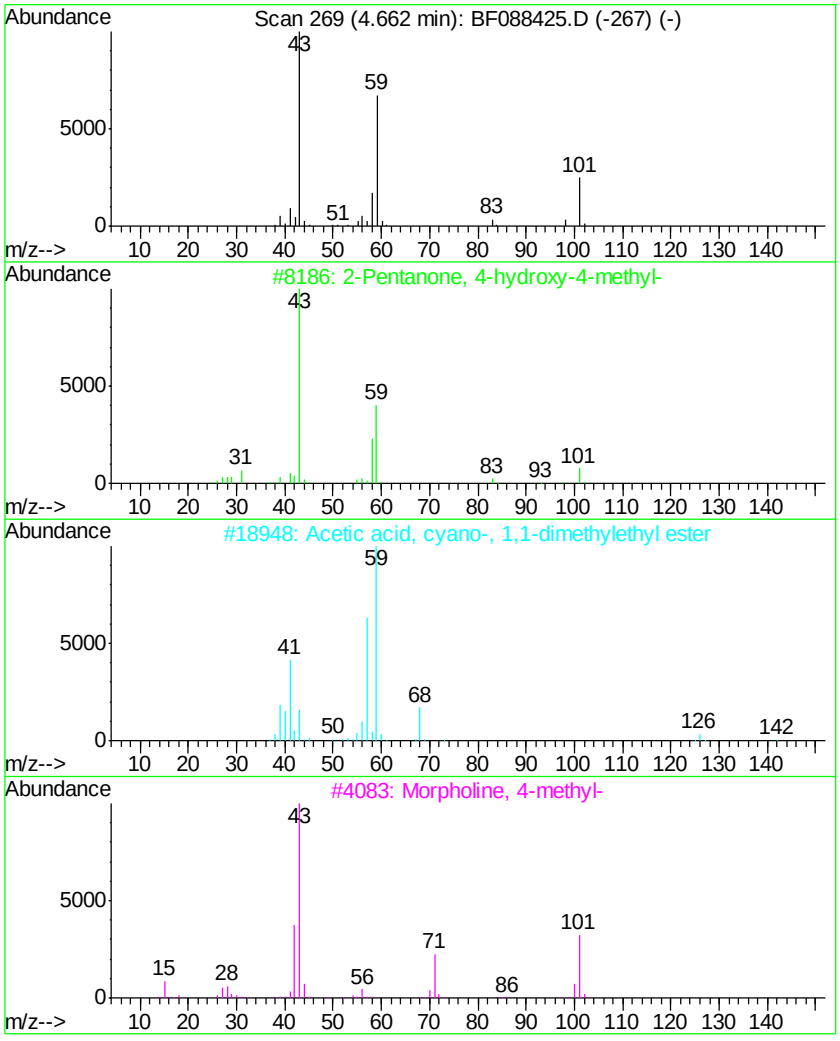
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

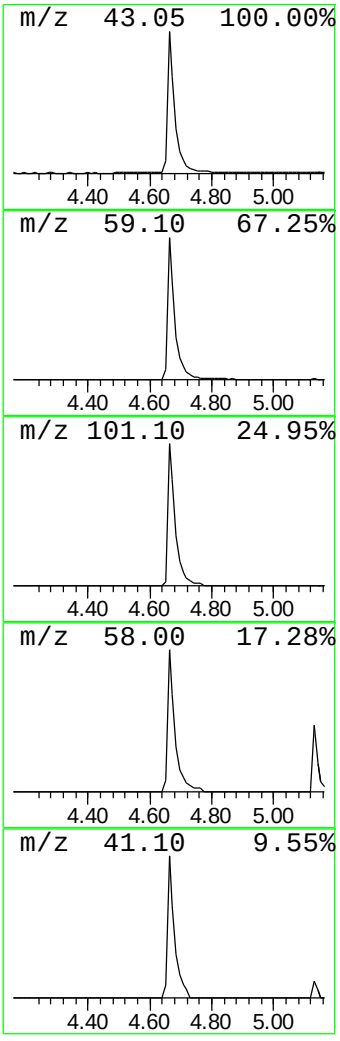
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.66	18.19 ng	355967	1,4-Dichlorobenzene-d4	6.55

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\
Data File : BF088425.D
Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
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Instrument : BNA_F
ClientSampleId : TP-14

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

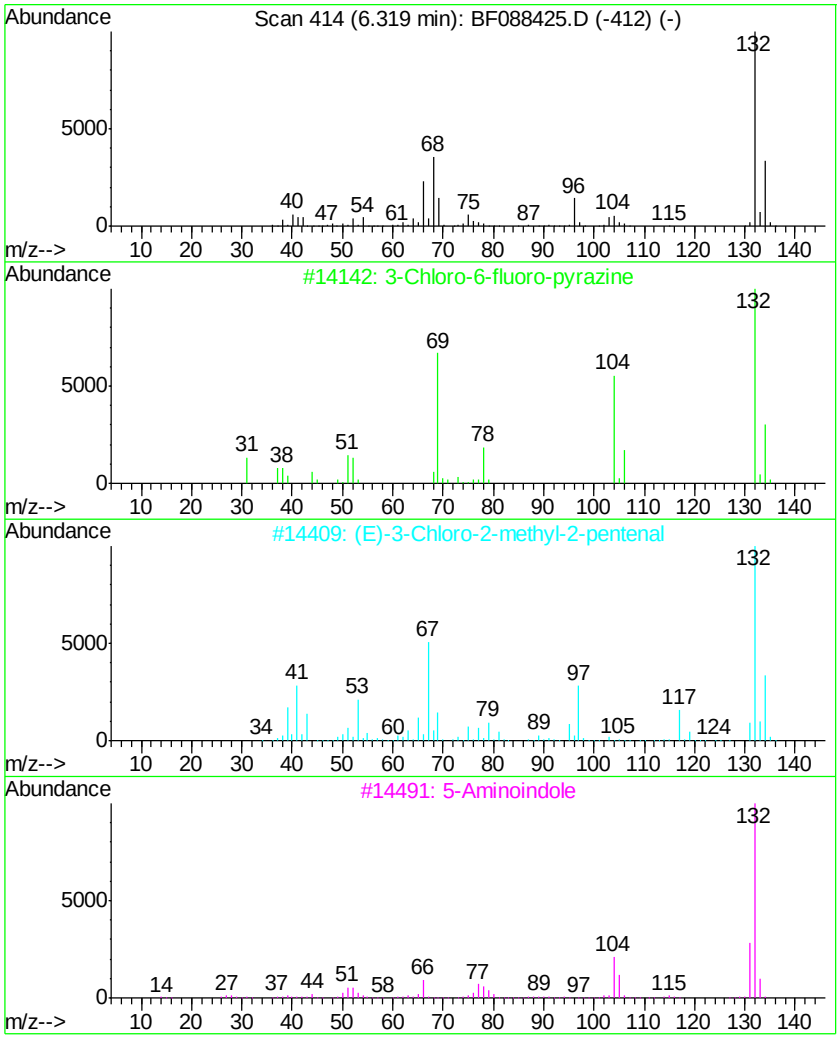
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

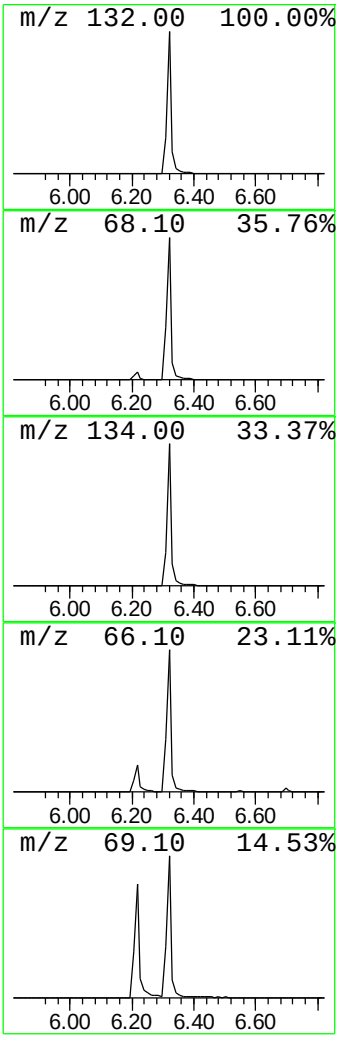
****

Peak Number 3 unknown6.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.32	79.88 ng	1563190	1,4-Dichlorobenzene-d4	6.55

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	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : TP-14

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

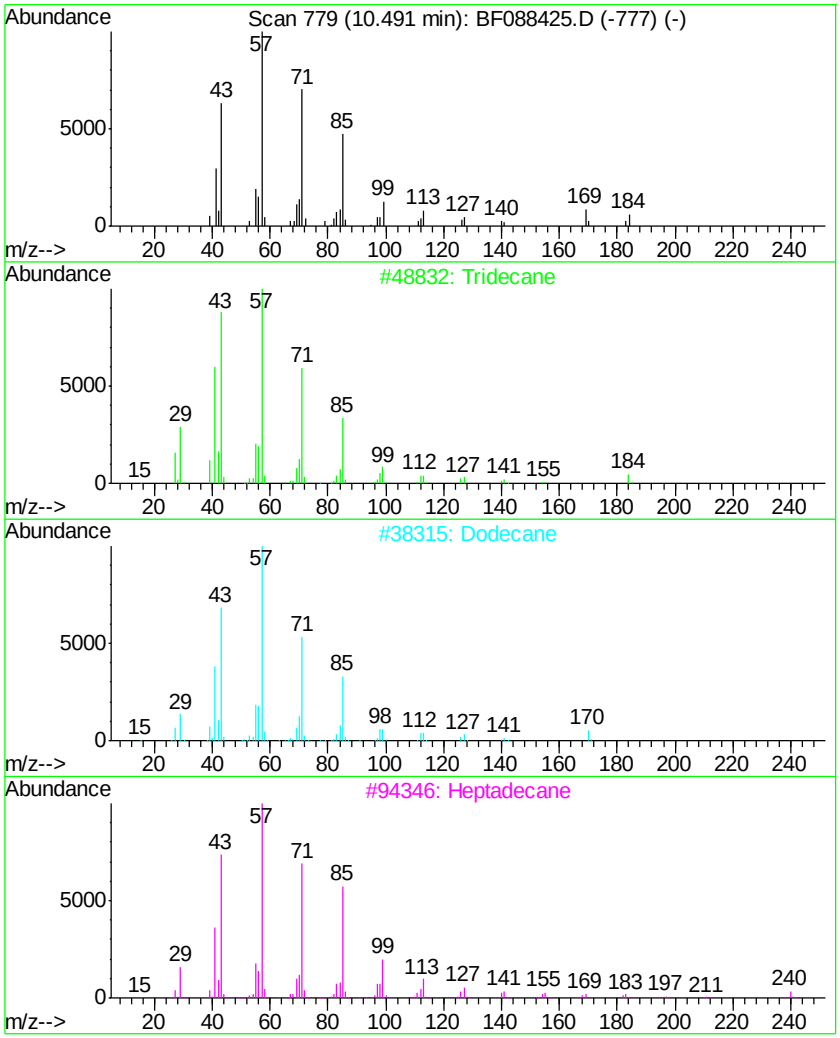
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

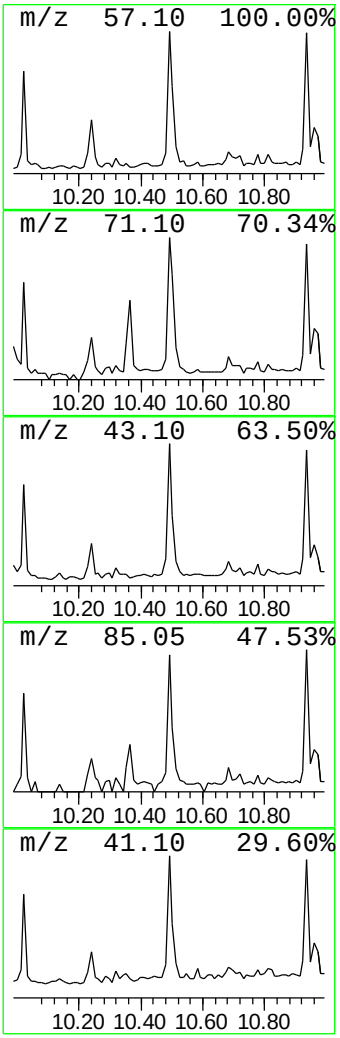
****

Peak Number 5 Tridecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	2.84 ng	80703	Phenanthrene-d10	11.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Dodecane	170	C12H26	000112-40-3	90
3	Heptadecane	240	C17H36	000629-78-7	87
4	Tetradecane	198	C14H30	000629-59-4	87
5	Heneicosane	296	C21H44	000629-94-7	87





Library Search Compound Report

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Acq On : 26 Jun 2016 18:28
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Sample : H3663-20
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Instrument : BNA_F
ClientSampleId : TP-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
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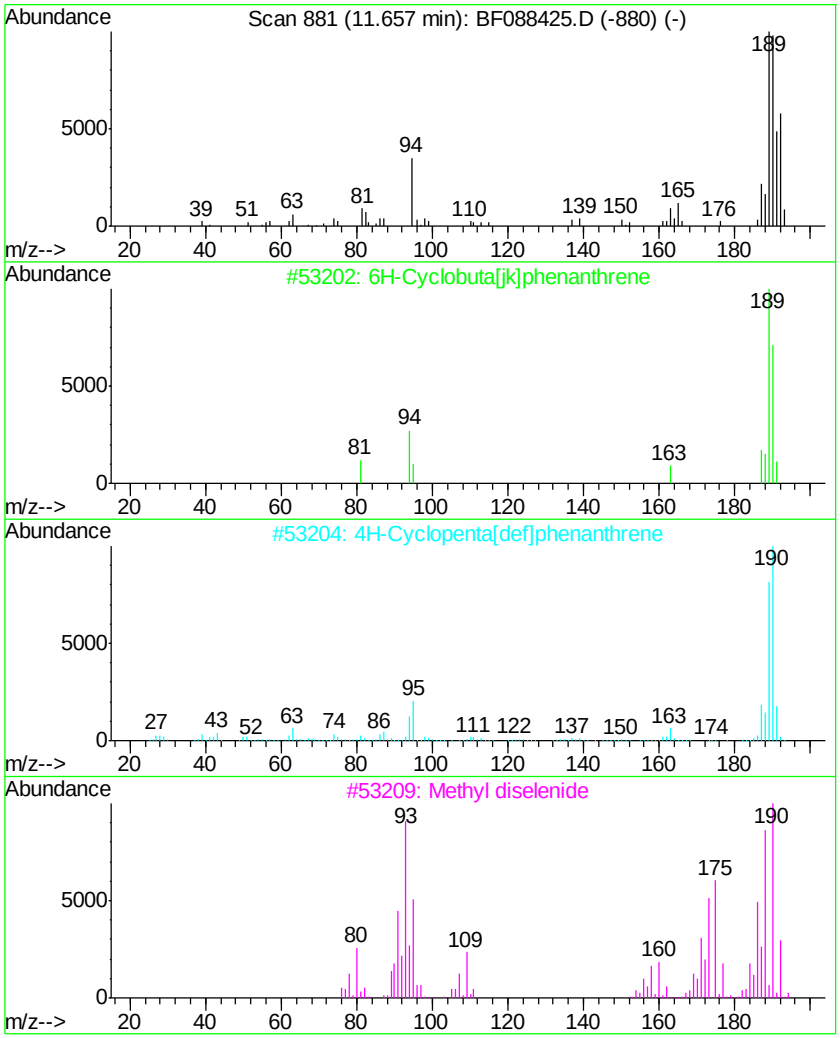
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

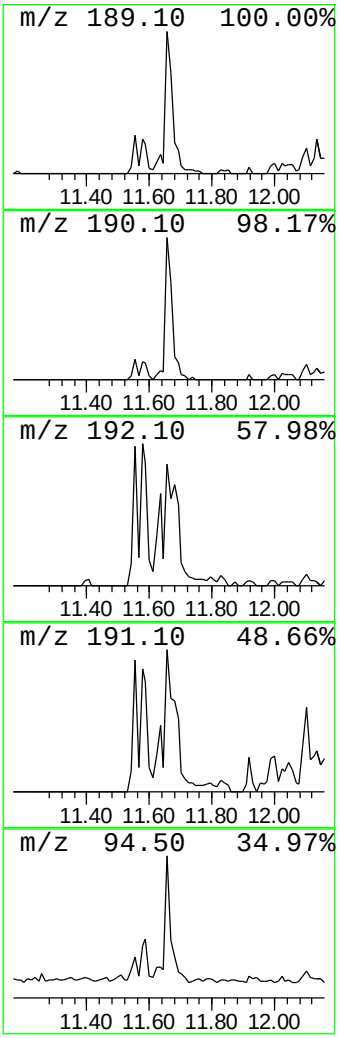
****

Peak Number 6 6H-Cyclobuta[jk]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	4.64 ng	131925	Phenanthrene-d10	11.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	Methyl diselenide	190	C2H6Se2	007101-31-7	41
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35
5	Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	22





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Data File : BF088425.D
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Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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

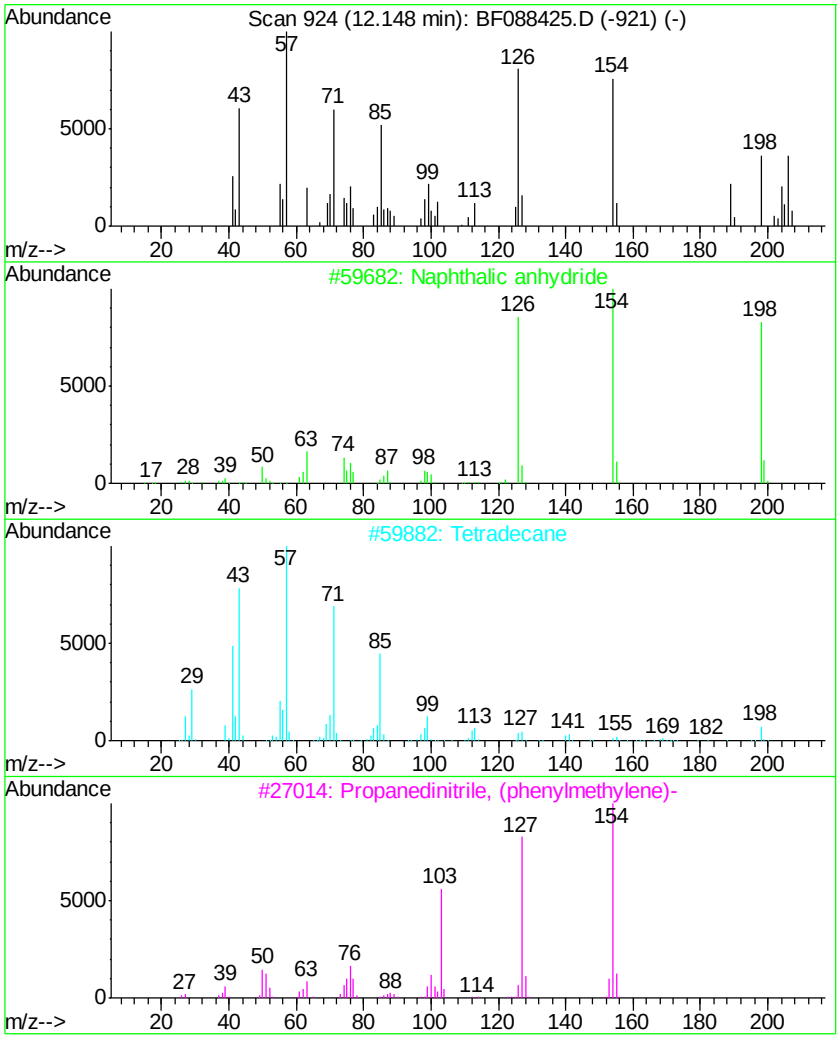
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

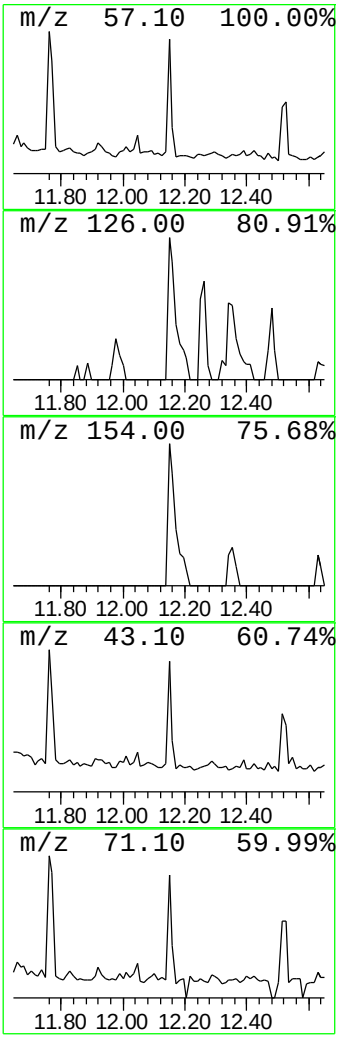
****

Peak Number 7 Naphthalic anhydride Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	2.70 ng	76866	Phenanthrene-d10	11.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	87
2	Tetradecane	198	C14H30	000629-59-4	74
3	Propanedinitrile, (phenylmethyle...	154	C10H6N2	002700-22-3	11
4	1,3,5-Triazine-2,4,6-triamine	126	C3H6N6	000108-78-1	10
5	Tridecane, 7-propyl-	226	C16H34	055045-09-5	10





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Data File : BF088425.D
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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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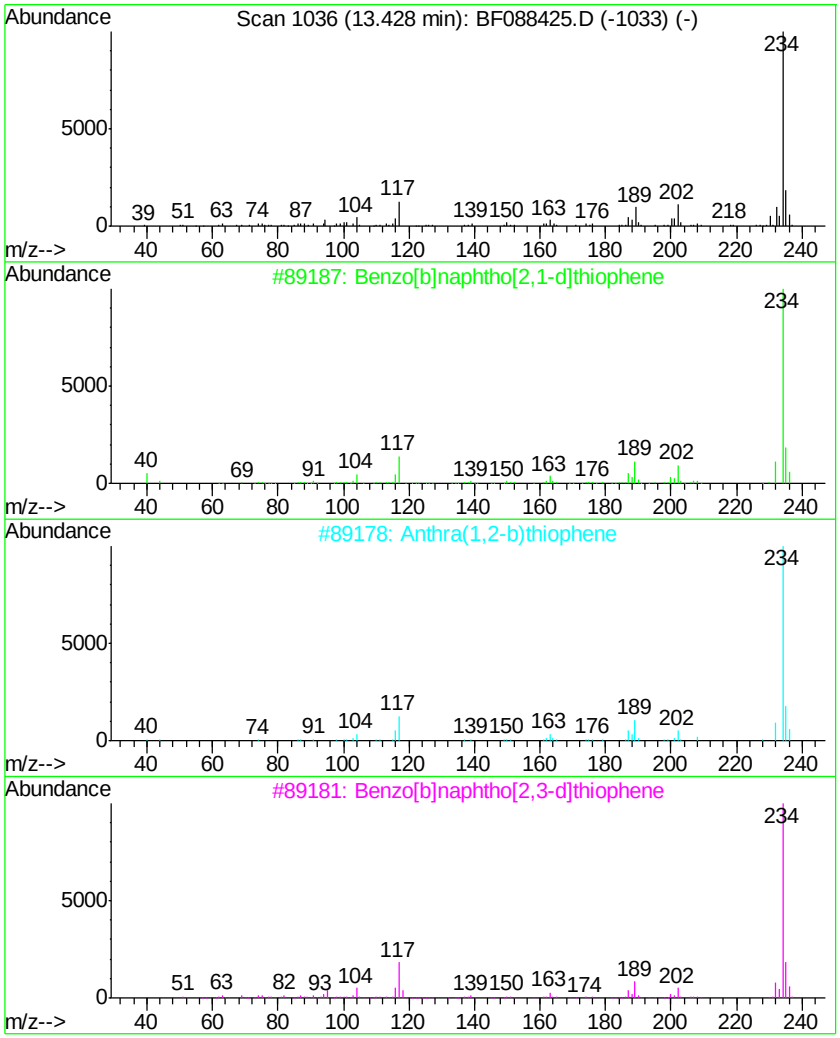
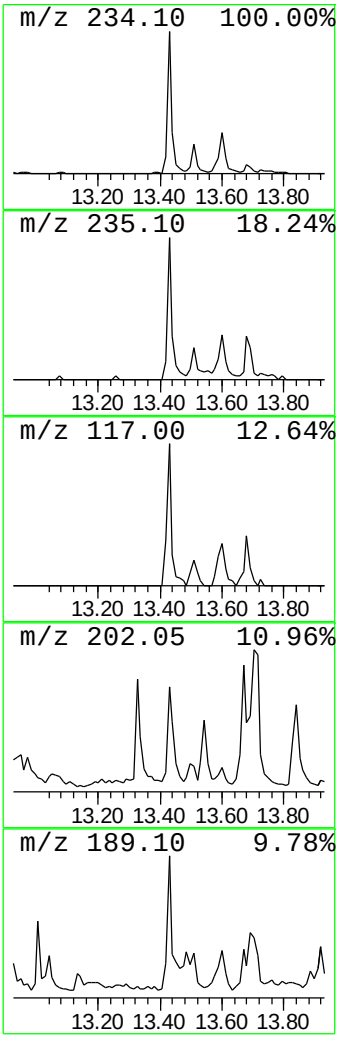
Peak Number 8 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.43	4.10 ng	349085	Chrysene-d12	13.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	98
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	96
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	94
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	91





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Data File : BF088425.D
Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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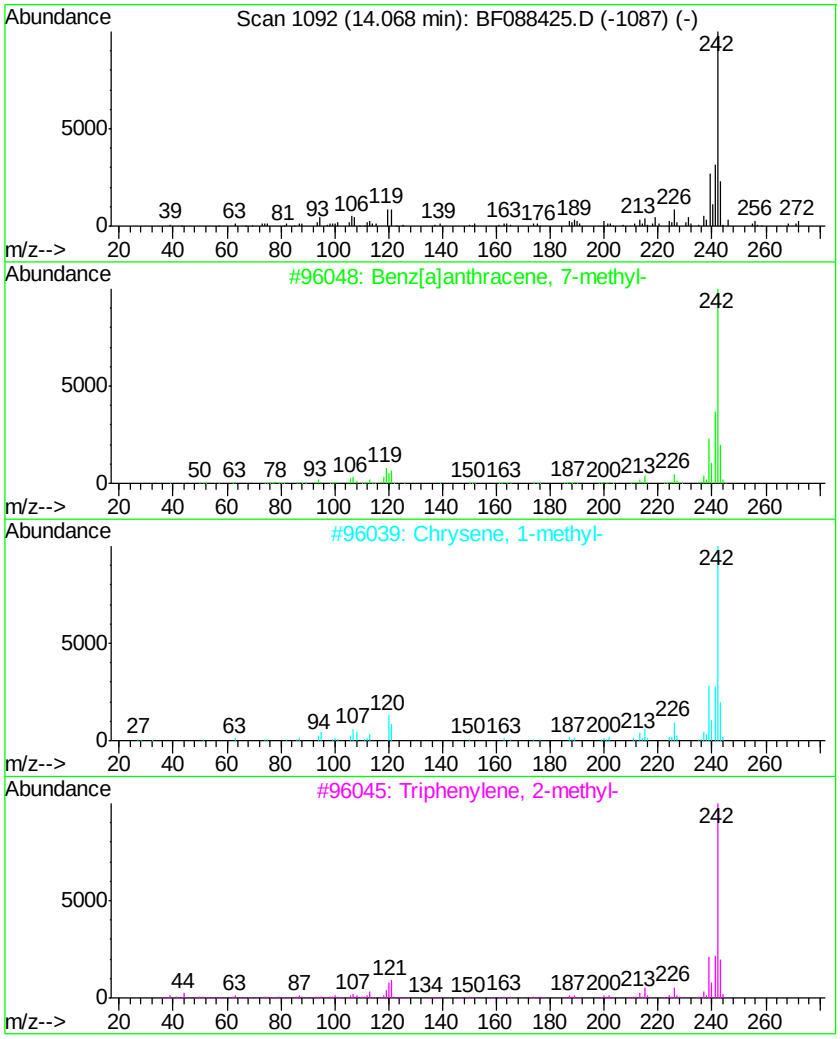
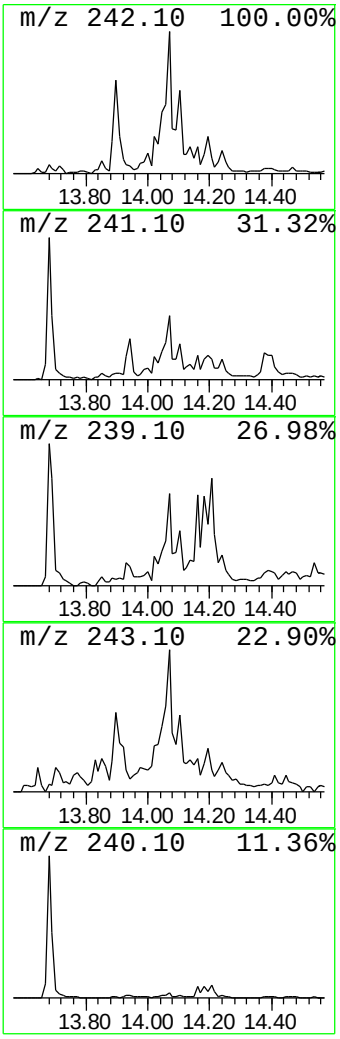
Peak Number 9 Benz[a]anthracene, 7-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	2.80 ng	238499	Chrysene-d12	13.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	90
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	90
4	Chrysene, 5-methyl-	242	C19H14	003697-24-3	90
5	2-Methylchrysene	242	C19H14	003351-32-4	90





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Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
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Instrument : BNA_F
ClientSampleId : TP-14

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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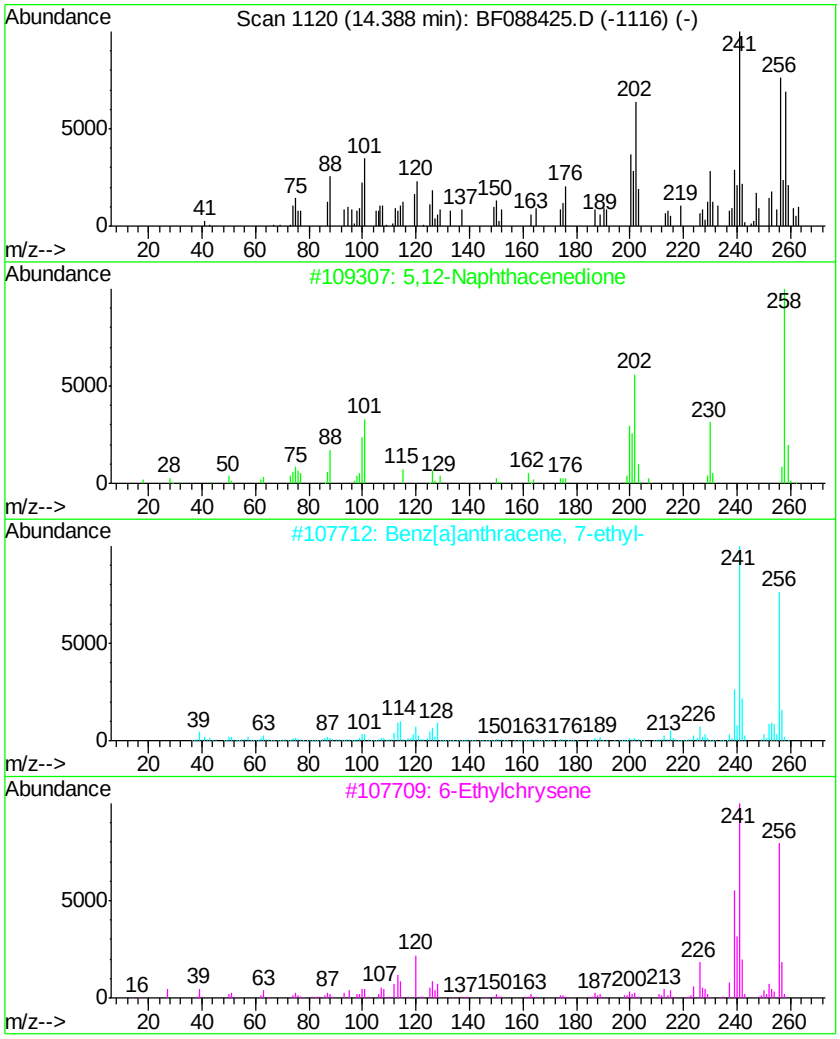
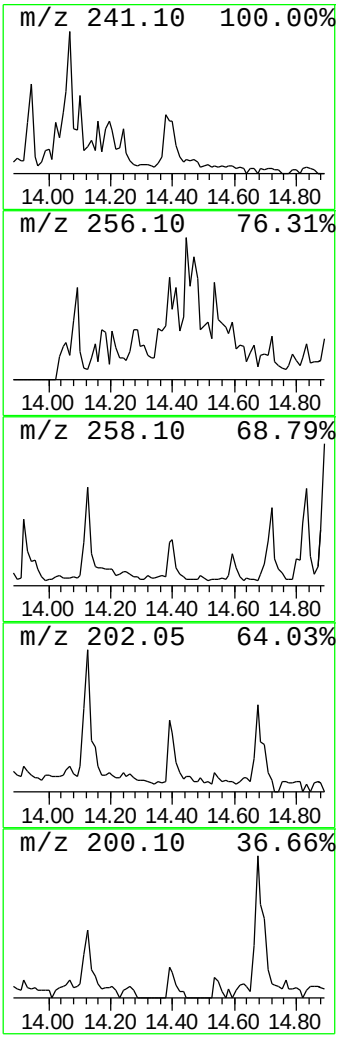
Peak Number 10 unknown14.39 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	3.15 ng	118939	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	43
2	Benz[a]anthracene, 7-ethyl-	256	C20H16	003697-30-1	43
3	6-Ethylchrysene	256	C20H16	1000342-58-3	43
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	42
5	5-Bromobenzo(b)thiophene-3-carbo...	256	C9H5BrO2S	007312-24-5	38





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Instrument : BNA_F
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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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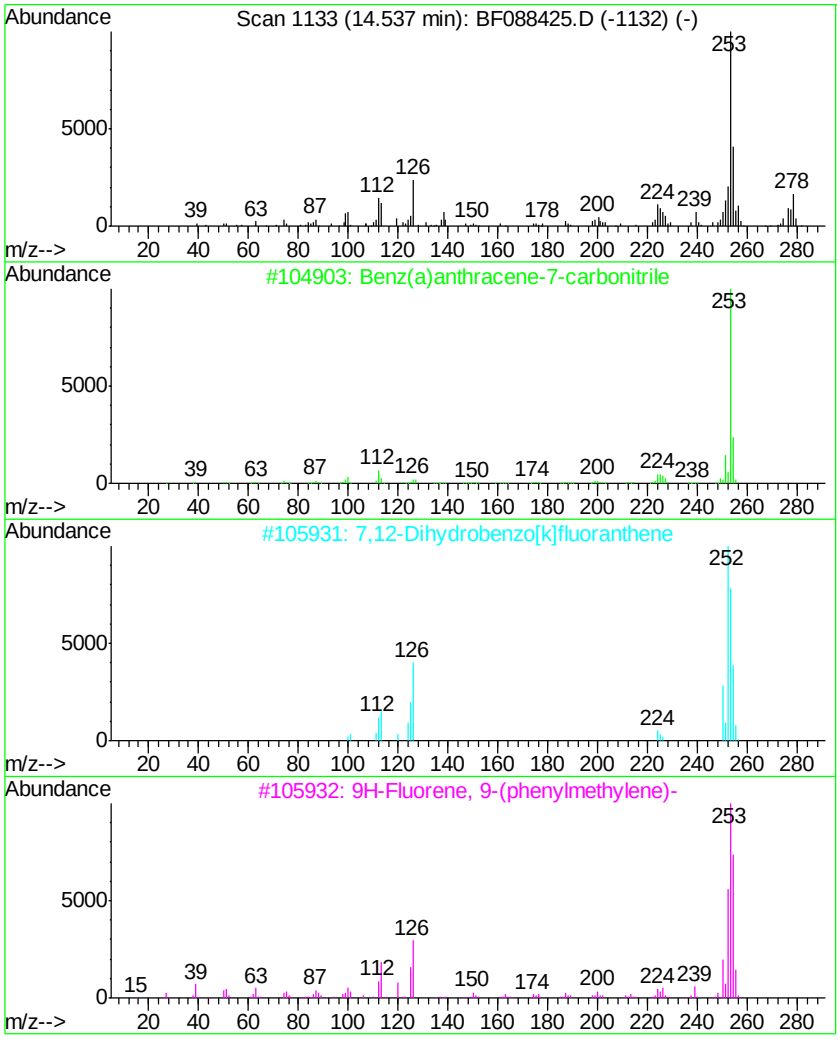
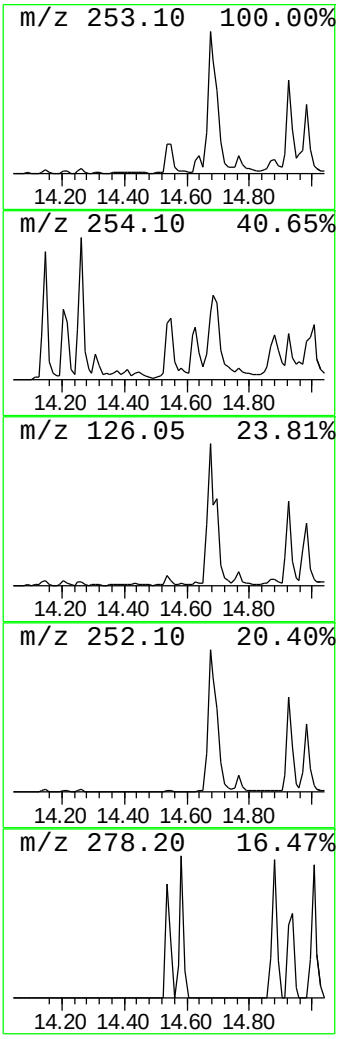
Peak Number 11 Benz(a)anthracene-7-carboni... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.54	3.35 ng	126332	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	64
2	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	50
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	38
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	37
5	Fumaric acid, 2-hexyl undecyl ester	354	C21H38O4	1000348-74-9	35





Library Search Compound Report

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Data File : BF088425.D
Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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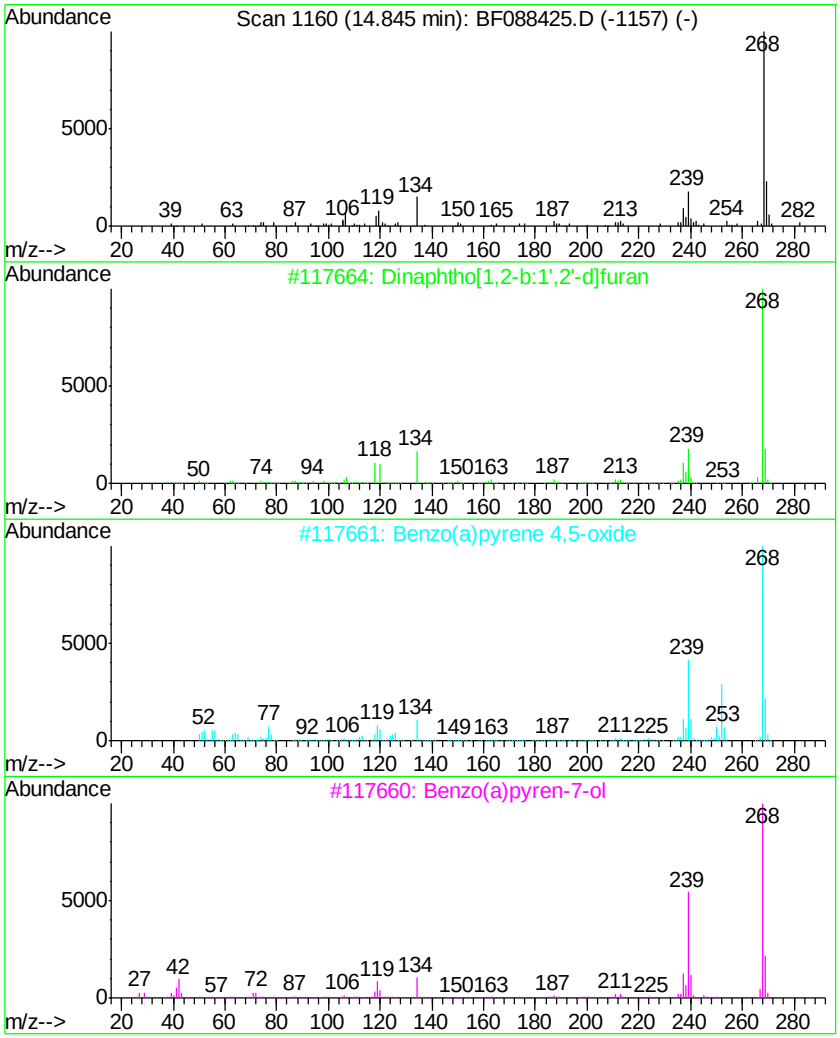
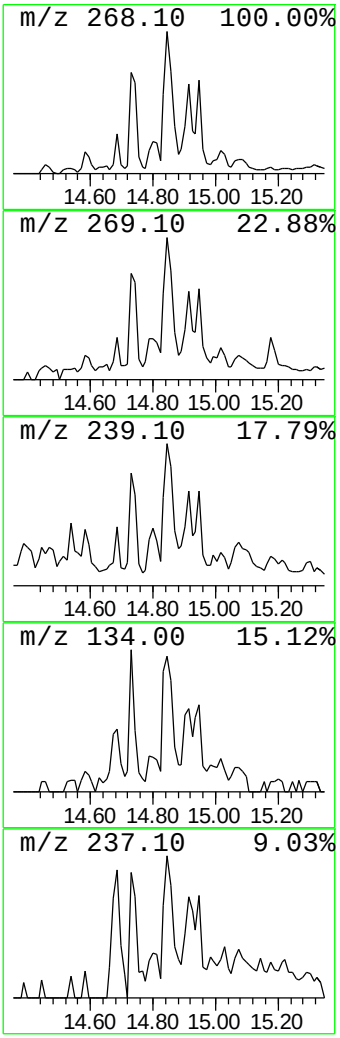
Peak Number 13 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.85	3.92 ng	148000	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
3	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	64
4	Pyrrolo[3,2-f]quinolin-9-one, 1,...	268	C17H20N2O	1000302-73-3	59
5	Naphthalene, 1-(2-naphthalenylme...	268	C21H16	000611-48-3	59





Library Search Compound Report

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Acq On : 26 Jun 2016 18:28
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Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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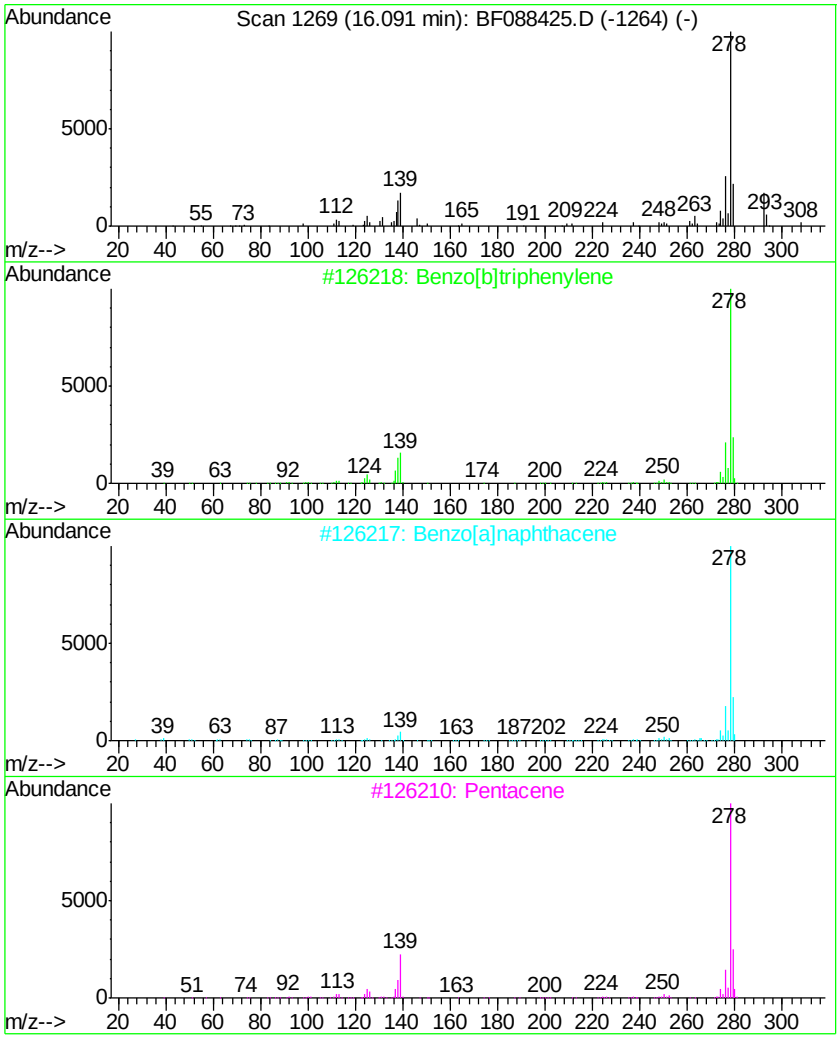
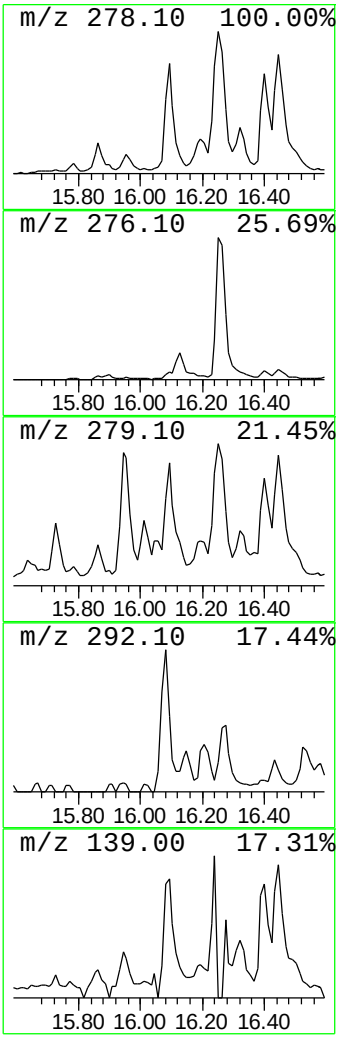
Peak Number 15 Benzo[b]triphenylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.09	3.21 ng	121307	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Benzo[a]naphthacene	278	C22H14	000226-88-0	89
3	Pentacene	278	C22H14	000135-48-8	76
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	76
5	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	76





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Acq On : 26 Jun 2016 18:28
Operator : UM/SJ
Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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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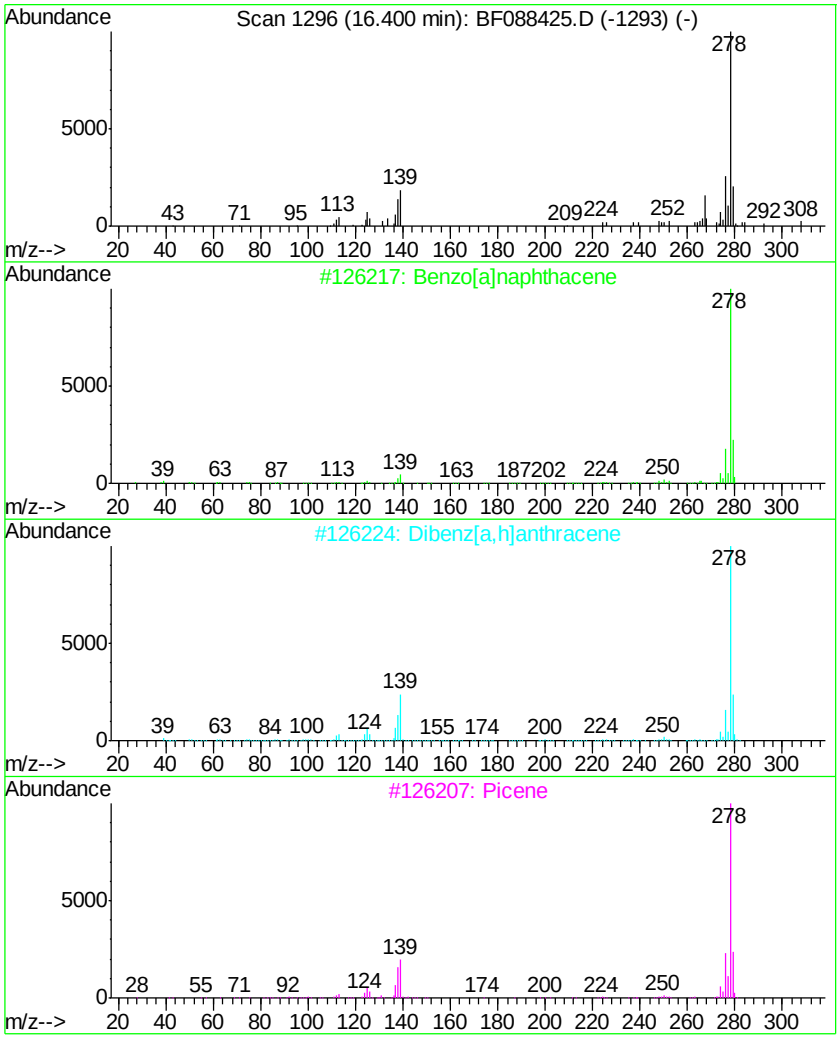
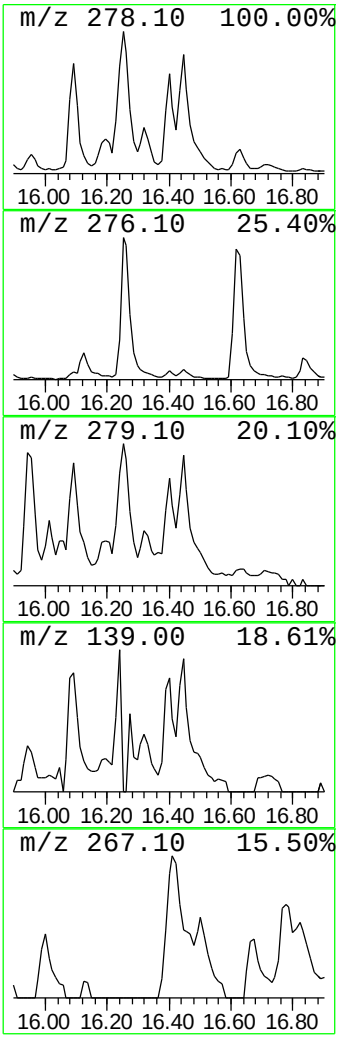
Peak Number 16 Benzo[a]naphthacene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.40	2.84 ng	107091	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]naphthacene	278	C22H14	000226-88-0	93
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89
3	Picene	278	C22H14	000213-46-7	89
4	Pentacene	278	C22H14	000135-48-8	86
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	78





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Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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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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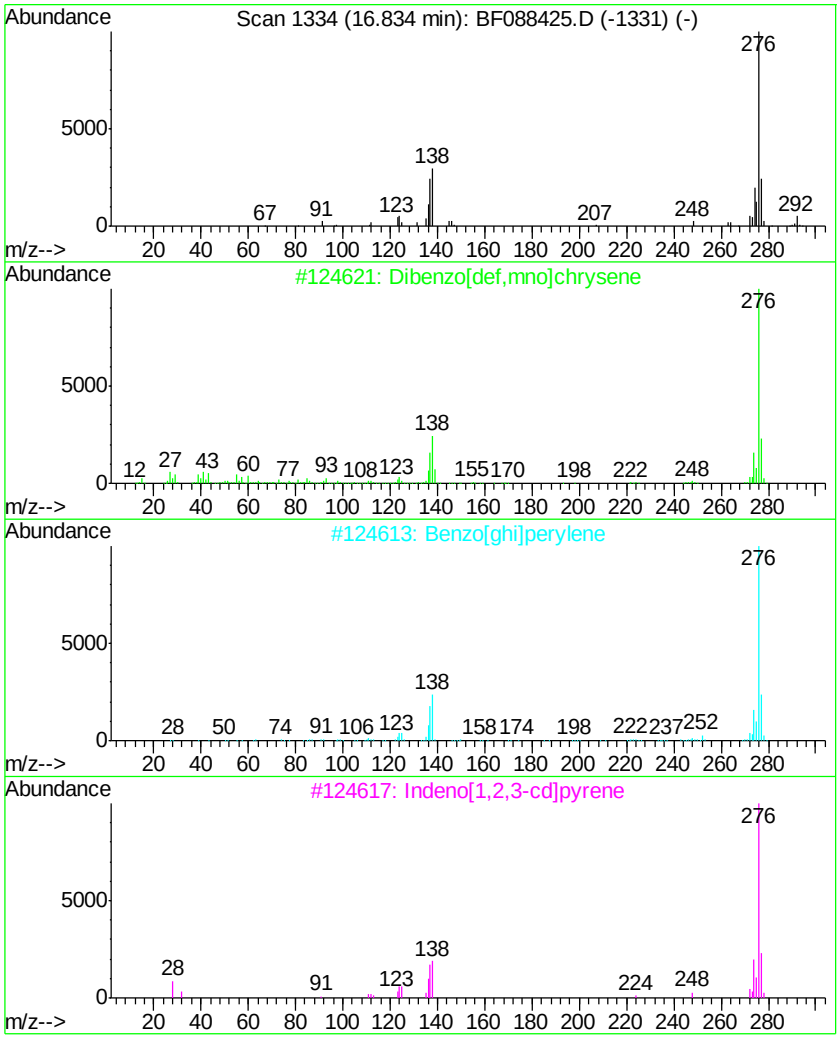
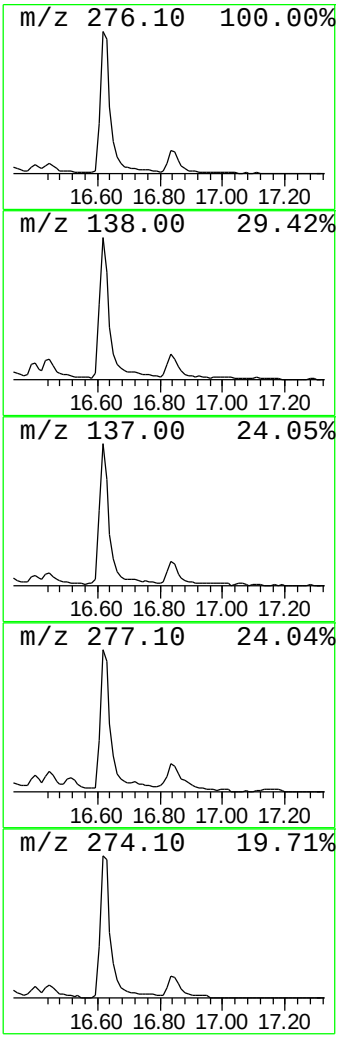
Peak Number 18 Dibenzo[def,mno]chrysene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	3.18 ng	120171	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	87
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	43





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Sample : H3663-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14

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

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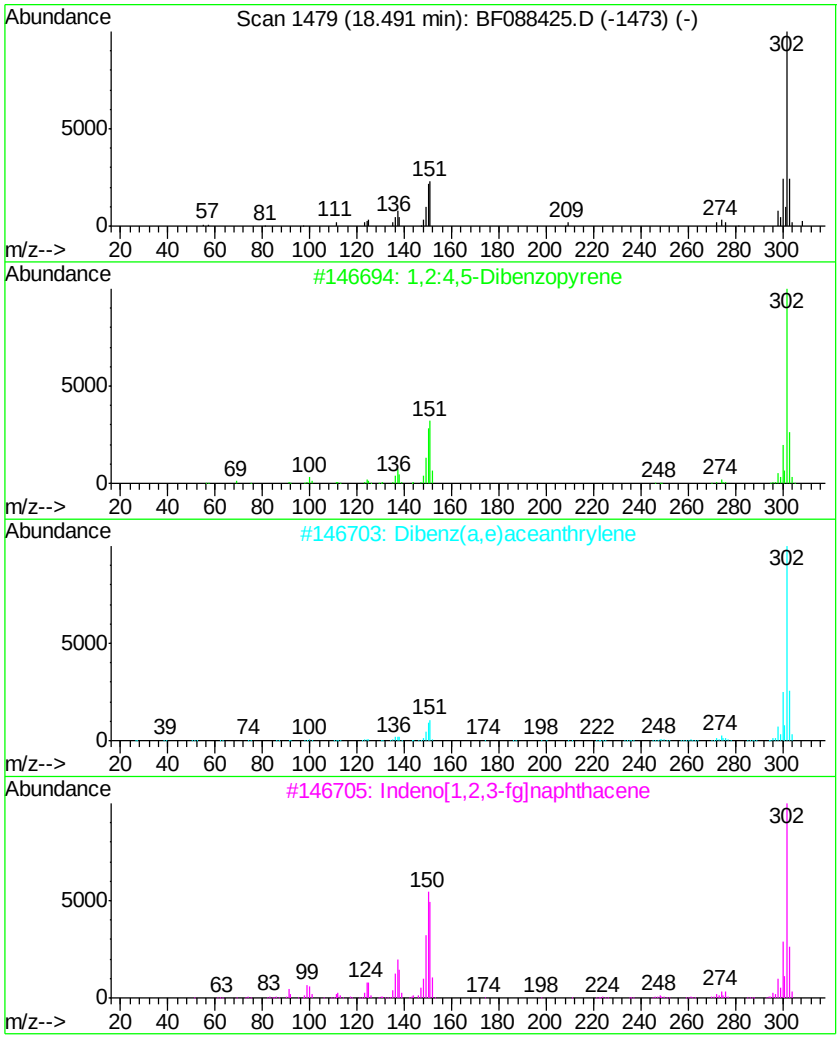
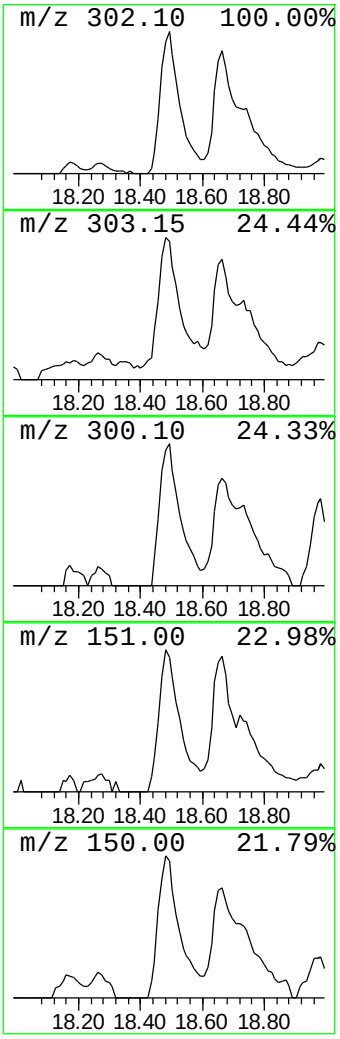
Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	5.41 ng	204264	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	95
3	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	93
4	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	89
5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	86





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Sample : H3663-20
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Instrument : BNA_F
ClientSampleId : TP-14

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
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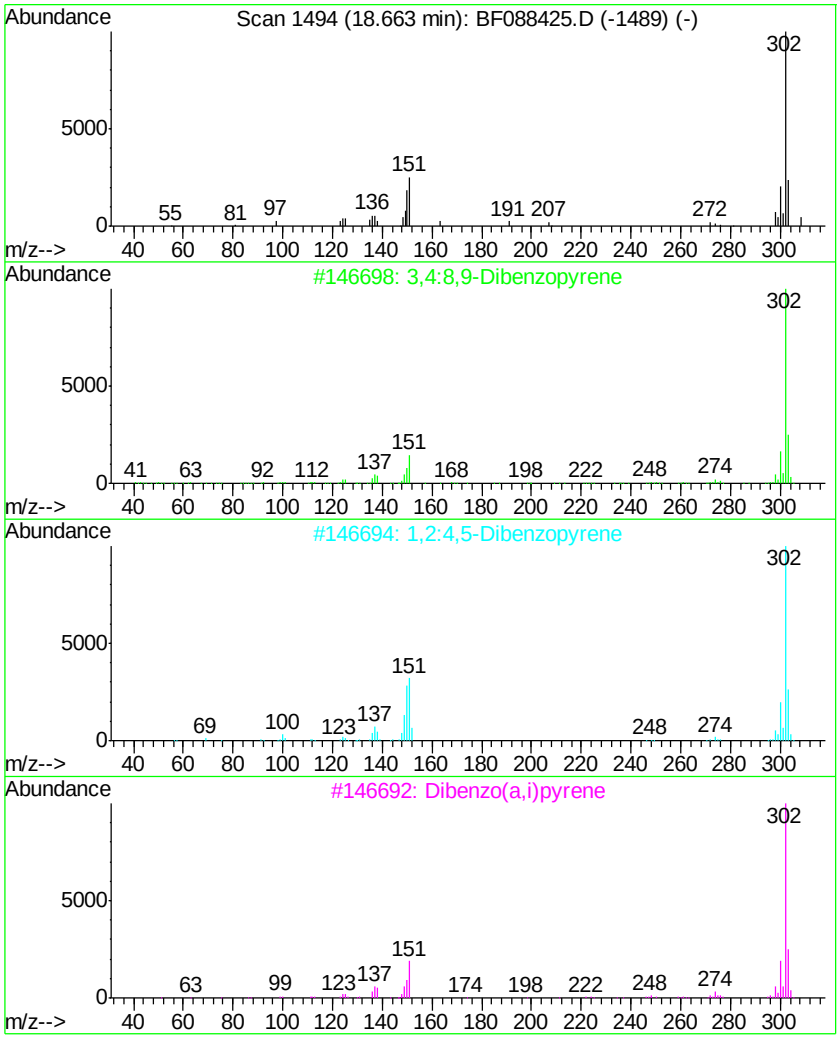
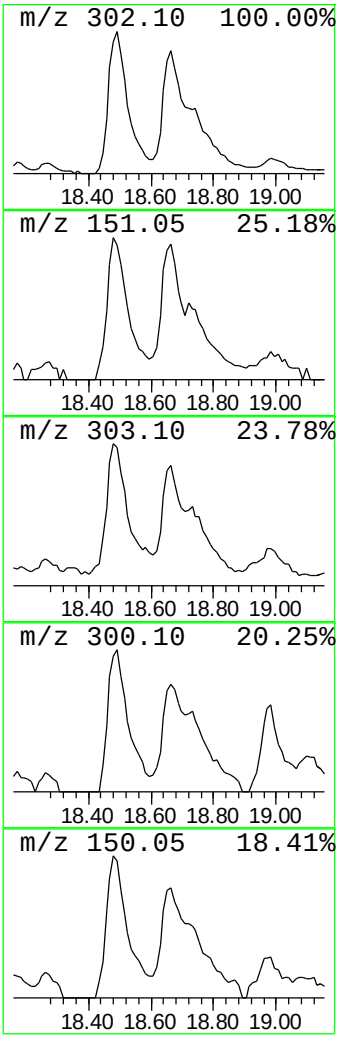
Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.66	3.19 ng	120423	Perylene-d12	15.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	87
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	87
3	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	81
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	74
5	1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	70





Tentatively Identified Compound (LSC) summary

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.66	18.2	ng	355967	1	6.55	391379	20.0
unknown6.32	6.32	79.9	ng	1563190	1	6.55	391379	20.0
Tridecane	10.49	2.8	ng	80703	4	11.05	568876	20.0
6H-Cyclobuta[jk]p...	11.66	4.6	ng	131925	4	11.05	568876	20.0
Naphthalic anhydride	12.15	2.7	ng	76866	4	11.05	568876	20.0
Benzo[b]naphtho[2...	13.43	4.1	ng	349085	5	13.68	1703670	20.0
Benz[a]anthracene...	14.07	2.8	ng	238499	5	13.68	1703670	20.0
unknown14.39	14.39	3.1	ng	118939	6	15.03	754675	20.0
Benz(a)anthracene...	14.54	3.4	ng	126332	6	15.03	754675	20.0
Dinaphtho[1,2-b:1...	14.85	3.9	ng	148000	6	15.03	754675	20.0
Benzo[b]triphenylene	16.09	3.2	ng	121307	6	15.03	754675	20.0
Benzo[a]naphthacene	16.40	2.8	ng	107091	6	15.03	754675	20.0
Dibenzo[def,mno]c...	16.83	3.2	ng	120171	6	15.03	754675	20.0
1,2:4,5-Dibenzopy...	18.49	5.4	ng	204264	6	15.03	754675	20.0
3,4:8,9-Dibenzopy...	18.66	3.2	ng	120423	6	15.03	754675	20.0