LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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-BF091117.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	5.251	535	538	555	rBV	734080	864497	11.39%	0.996%
2	6.298	713	716	725	rBV	887129	915977	12.07%	1.055%
3	6.422	734	737	743	rBV	1070326	907522	11.96%	1.045%
4	6.651	773	776	783	rBV	1299783	1085774	14.31%	1.250%
5	6.810	799	803	817	rBV	691711	660133	8.70%	0.760%
6	7.216	869	872	878	rBV	541171	523750	6.90%	0.603%
7	7.940	988	995	996	rBV	1697151	1532283	20.19%	1.765%
8	7.957	996	998	1002	rVV	2462562	2151405	28.35%	2.478%
9	8.651	1112	1116	1119	rBV	1857512	1512773	19.93%	1.742%
10	8.745	1128	1132	1136	rVB	1417391	1259585	16.60%	1.451%
11	9.010	1171	1177	1181	rBV	1294212	1009380	13.30%	1.162%
12	9.110	1191	1194	1200	rVB	313462	266219	3.51%	0.307%
13	9.204	1208	1210	1217	rVB	157537	188595	2.49%	0.217%
14	9.275	1217	1222	1226	rBV	601432	811638	10.70%	0.935%
15	9.345	1230	1234	1237	rVV	983247	1024467	13.50%	1.180%
16	9.375	1237	1239	1243	rVV	720813	552709	7.28%	0.637%
17	9.410	1243	1245	1249	rVB2	211535	192074	2.53%	0.221%
18	9.463	1249	1254	1260	rBV	507079	573063	7.55%	0.660%
19	9.545	1265	1268	1274	rVB	1275254	1094242	14.42%	1.260%
20	9.686	1285	1292	1295	rBV2	1866741	1810565	23.86%	2.085%
21	9.716	1295	1297	1301	rVV	887978	838824	11.05%	0.966%
22	9.792	1307	1310	1314	rVB2	131235	161737	2.13%	0.186%
23	9.892	1323	1327	1330	rVV	1386552	1178729	15.53%	1.357%
24	9.928	1330	1333	1337	rVB	296233	272429	3.59%	0.314%
25	10.004	1341	1346	1348	rBV	293251	323653	4.26%	0.373%
26	10.034	1348	1351	1357	rVB	253926	238065	3.14%	0.274%
27	10.092	1357	1361	1363	rBV2	197940	272206	3.59%	0.313%
28	10.186	1372	1377	1379	rBV4	136327	224834	2.96%	0.259%
29	10.233	1382	1385	1391	rVB	2608825	2426709	31.98%	2.795%
30	10.298	1391	1396	1398	rBV2	220154	299051	3.94%	0.344%
31	10.345	1401	1404	1406	rVV	139348	135242	1.78%	0.156%
32	10.392	1409	1412	1415	rVB	382683	344296	4.54%	0.397%
33	10.475	1420	1426	1430	rVV2	966913	1134185	14.95%	1.306%
34	10.598	1443	1447	1452	rVB4	184781	228190	3.01%	0.263%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.781	1473	1478	1480	rBV	554229	618553	8.15%	0.712%
36	10.804	1480	1482	1486	rVV	296365	274897	3.62%	0.317%
37	10.863	1489	1492	1495	rVB	302216	253594	3.34%	0.292%
38	10.910	1495	1500	1502	rBV2	167700	218542	2.88%	0.252%
39	10.980	1509	1512	1515	rVV2	244947	226158	2.98%	0.260%
40	11.022	1515	1519	1521	rVV	165969	186665	2.46%	0.215%
41	11.063	1523	1526	1533	rVB	857393	833785	10.99%	0.960%
42	11.169	1540	1544	1546	rBV	1439120	1592337	20.98%	1.834%
43	11.204	1546	1550	1553	rVV	6757483	7588633	100.00%	8.739%
44	11.245	1553	1557	1560	rVV	2158782	2025825	26.70%	2.333%
45	11.280	1560	1563	1566	rVV2	285920	280423	3.70%	0.323%
46	11.404	1577	1584	1591	rBV2	1052157	1141016	15.04%	1.314%
47	11.463	1591	1594	1597	rVV	288937	266794	3.52%	0.307%
48	11.498	1597	1600	1605	rVB2	322734	360174	4.75%	0.415%
49	11.580	1611	1614	1617	rVB	242466	254575	3.35%	0.293%
50	11.669	1625	1629	1632	rVV	1300785	1305527	17.20%	1.503%
51	11.698	1632	1634	1638	rVB	1741023	1367988	18.03%	1.575%
52	11.745	1638	1642	1645	rBV	500114	457035	6.02%	0.526%
53	11.780	1645	1648	1651	rVV	1986649	2169553	28.59%	2.499%
54	11.804	1651	1652	1657	rVB	977590	556441	7.33%	0.641%
55	11.963	1676	1679	1682	rVV	774455	661694	8.72%	0.762%
56	11.998	1682	1685	1689	rVB	391923	362883	4.78%	0.418%
57	12.110	1702	1704	1707	rVB	155321	135887	1.79%	0.156%
58	12.145	1707	1710	1712	rBV	282295	228490	3.01%	0.263%
59	12.169	1712	1714	1717	rVB	207248	160501	2.12%	0.185%
60	12.216	1719	1722	1725	rBV	585712	622054	8.20%	0.716%
61	12.257	1725	1729	1731	rVV2	421123	484154	6.38%	0.558%
62	12.310	1734	1738	1742	rBV3	308252	406368	5.35%	0.468%
63	12.386	1746	1751	1754	rBV	5171035	5226318	68.87%	6.019%
64	12.475	1763	1766	1769	rVB	477494	389008	5.13%	0.448%
65	12.527	1769	1775	1780	rBV3	302493	456048	6.01%	0.525%
66	12.616	1783	1790	1795	rBV2	4378202	5374475	70.82%	6.189%
67	12.657	1795	1797	1802	rVB2	238022	272929	3.60%	0.314%
68	12.727	1806	1809	1810	rBV	279632	232192	3.06%	0.267%
69	12.751	1810	1813	1815	rVV	732850	754076	9.94%	0.868%
70	12.769	1815	1816	1820	rVB	340790	204006	2.69%	0.235%
71	12.827	1821	1826	1829	rBV2	405820	633521	8.35%	0.730%

LSC Area Percent Report

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Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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

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Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.910	1837	1840	1842	rBV4	325155	418947	5.52%	0.482%
73	12.933	1842	1844	1848	rVB	973268	920934	12.14%	1.061%
74	13.004	1848	1856	1858	rBV	956137	1029645	13.57%	1.186%
75	13.039	1858	1862	1869	rVB2	661647	763782	10.06%	0.880%
76	13.127	1875	1877	1880	rVB	322906	268365	3.54%	0.309%
77	13.163	1880	1883	1886	rBV2	370631	365776	4.82%	0.421%
78	13.416	1923	1926	1929	rBV2	154927	214638	2.83%	0.247%
79	13.445	1929	1931	1935	rVB	253277	255349	3.36%	0.294%
80	13.551	1946	1949	1951	rBV	349856	279369	3.68%	0.322%
81	13.574	1951	1953	1956	rVB	301850	266399	3.51%	0.307%
82	13.604	1956	1958	1959	rBV	229528	172142	2.27%	0.198%
83	13.657	1964	1967	1970	rVB	276005	254536	3.35%	0.293%
84	13.798	1986	1991	1995	rVV2	2383440	3746333	49.37%	4.314%
85	13.833	1995	1997	2004	rVB	1959109	1645552	21.68%	1.895%
86	13.910	2007	2010	2012	rVB	263064	216281	2.85%	0.249%
87	13.951	2014	2017	2019	rVV	289121	268959	3.54%	0.310%
88	14.192	2055	2058	2061	rVV	416855	432494	5.70%	0.498%
89	14.221	2061	2063	2067	rVB	208558	178227	2.35%	0.205%
90	14.310	2076	2078	2080	rBV	249779	228876	3.02%	0.264%
91	14.333	2080	2082	2085	rVB	296784	239572	3.16%	0.276%
92	14.663	2136	2138	2142	rBV	159285	195788	2.58%	0.225%
93	14.816	2159	2164	2167	rBV	1523330	2381235	31.38%	2.742%
94	14.910	2177	2180	2184	rBV	360971	377852	4.98%	0.435%
95	15.092	2207	2211	2217	rVB	887084	1068998	14.09%	1.231%
96	15.151	2217	2221	2226	rVV	1490369	1724908	22.73%	1.986%
97	15.204	2227	2230	2233	rVV	848245	1078727	14.22%	1.242%
98	15.233	2233	2235	2241	rVB2	449368	555289	7.32%	0.639%
99	16.551	2453	2459	2464	rBV	544431	938086	12.36%	1.080%
100	16.951	2522	2527	2533	rBV	390778	748731	9.87%	0.862%

Sum of corrected areas: 86833710

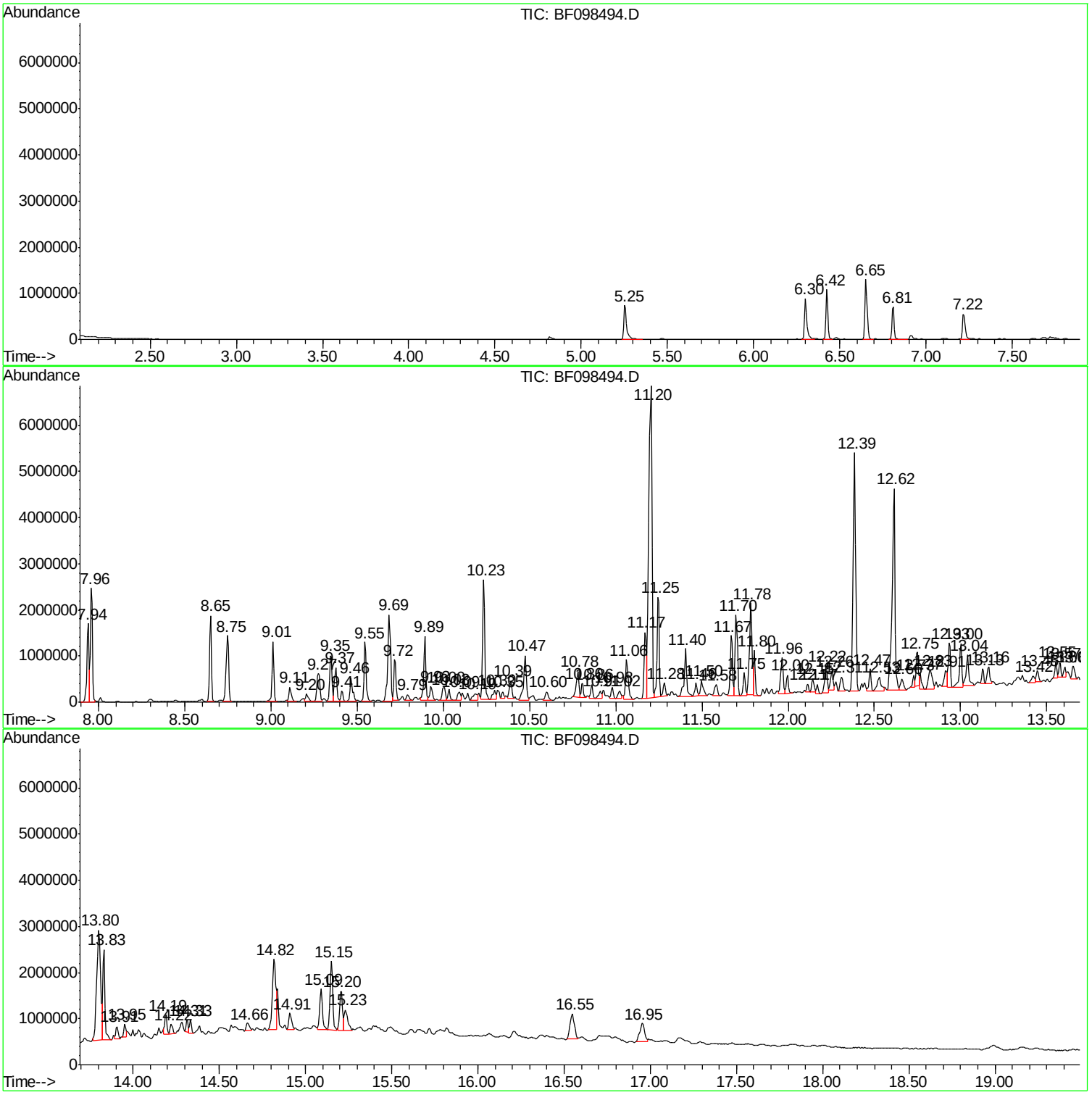
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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 : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
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Acq On : 13 Sep 2017 17:21
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Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

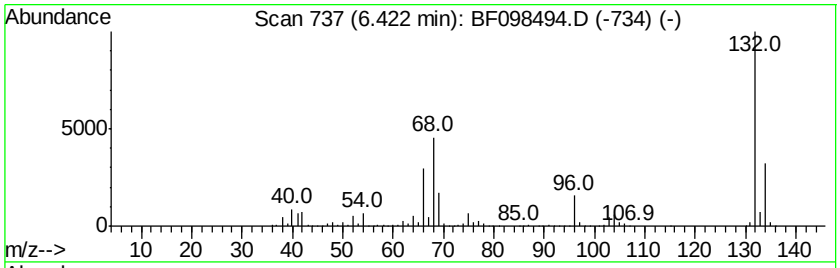
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

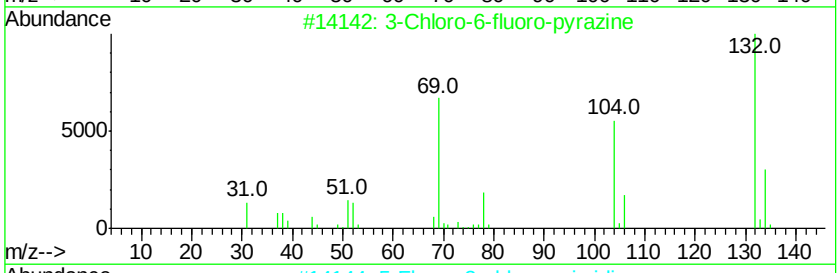
****

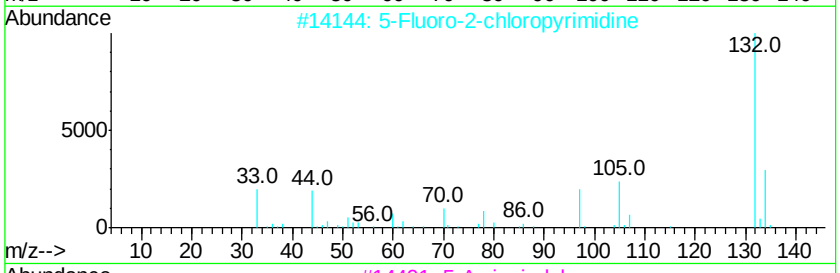
Peak Number 1 unknown6.42 Concentration Rank 4

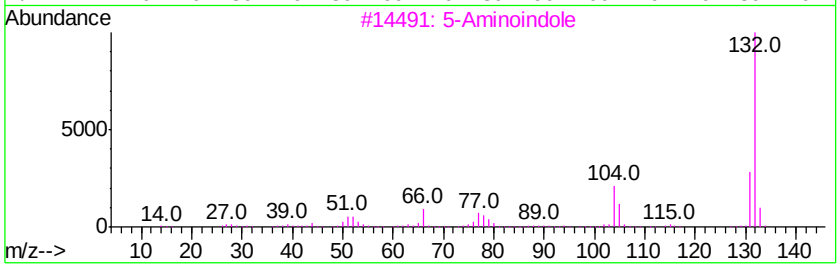
R.T.	EstConc	Area	Relative to ISTD	R.T.
6.42	16.72 ng	907522	1,4-Dichlorobenzene-d4	6.65

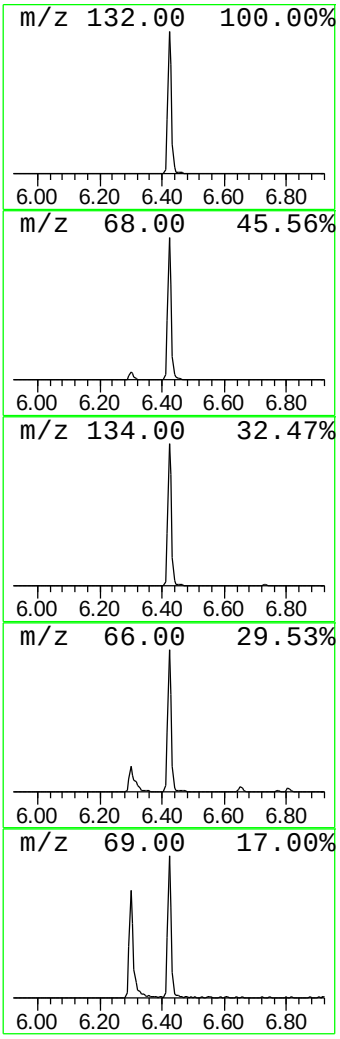
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	10
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Xenon	132	Xe	007440-63-3	9











Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

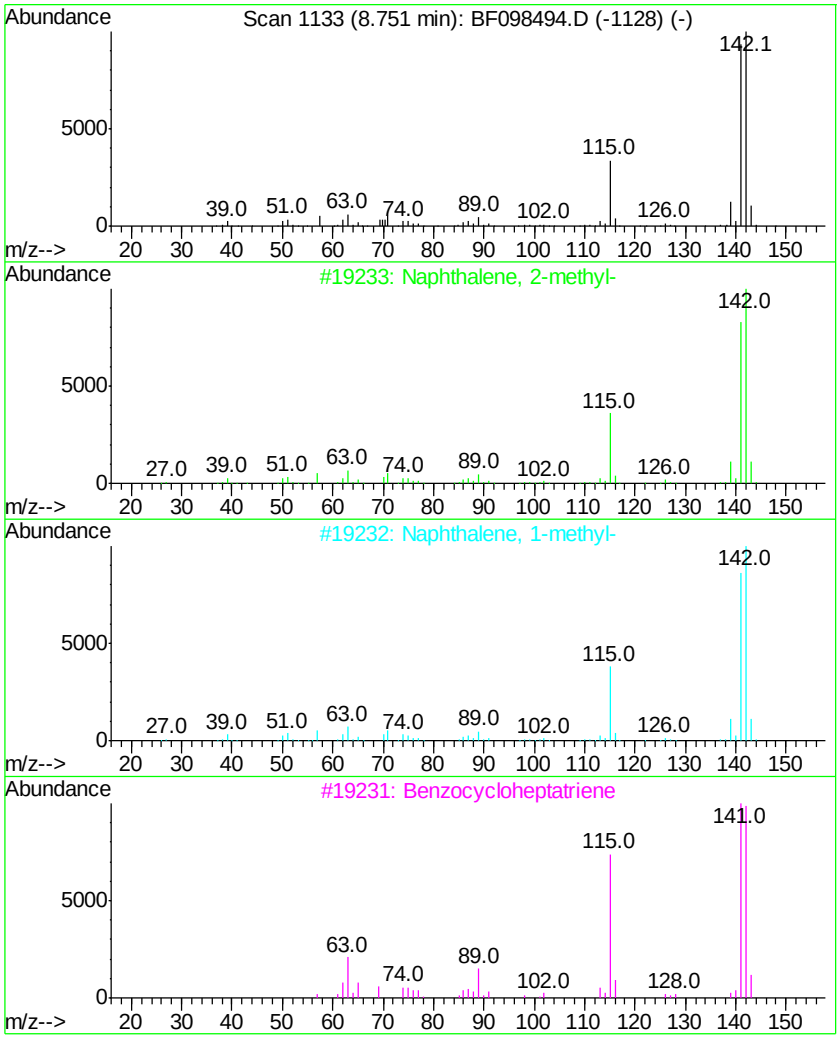
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

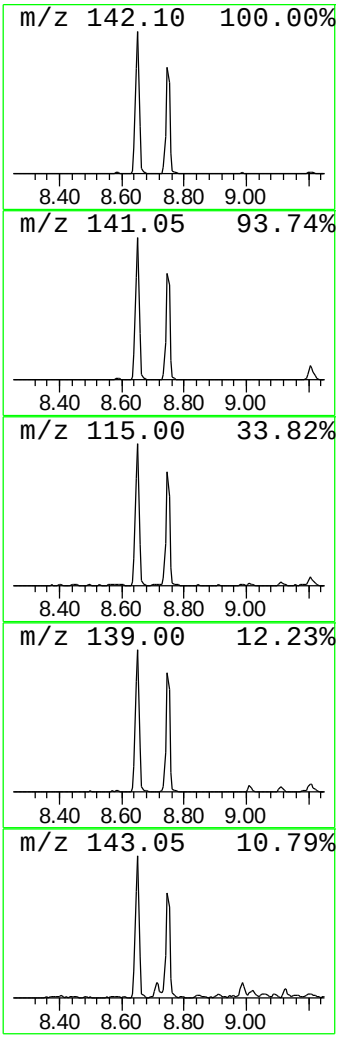
****

Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	16.44 ng	1259590	Naphthalene-d8	7.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Benzocycloheptatriene	142	C11H10	000264-09-5	94
4	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	94
5	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91





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Acq On : 13 Sep 2017 17:21
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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

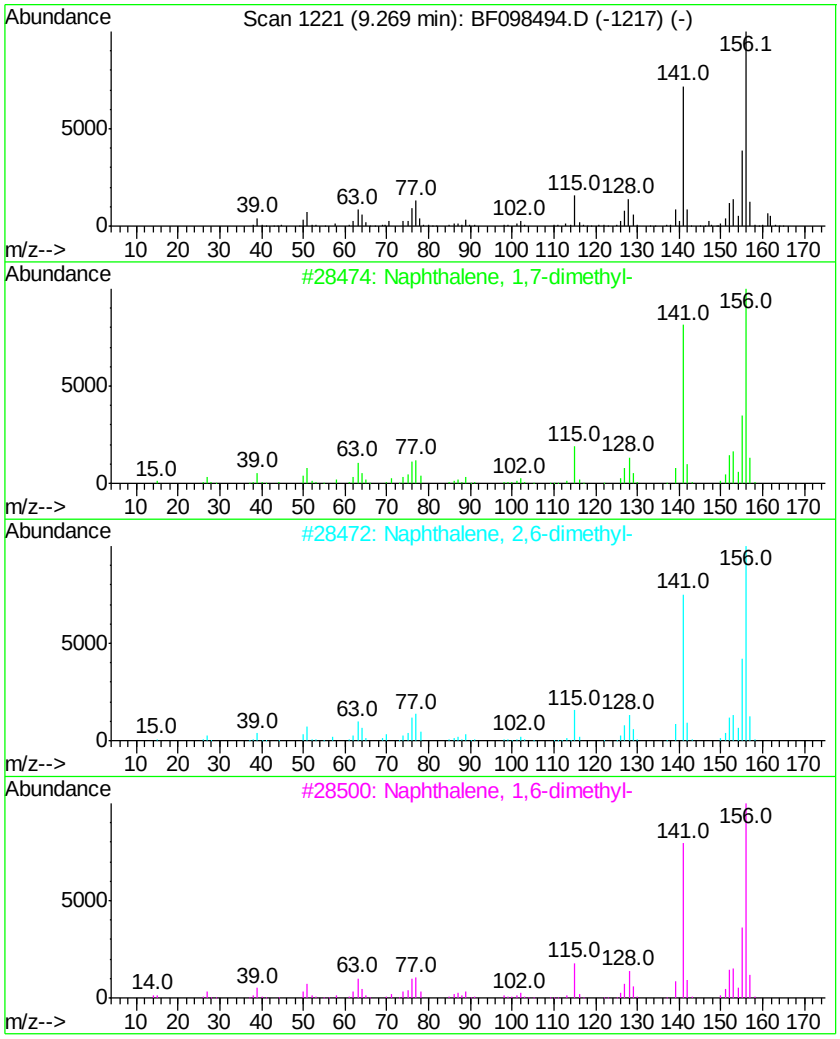
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

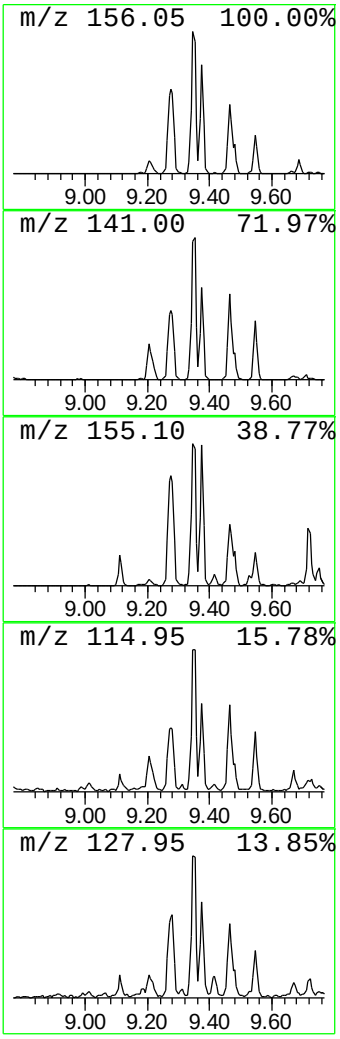
****

Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.27	8.97 ng	811638	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





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Data File : BF098494.D
Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

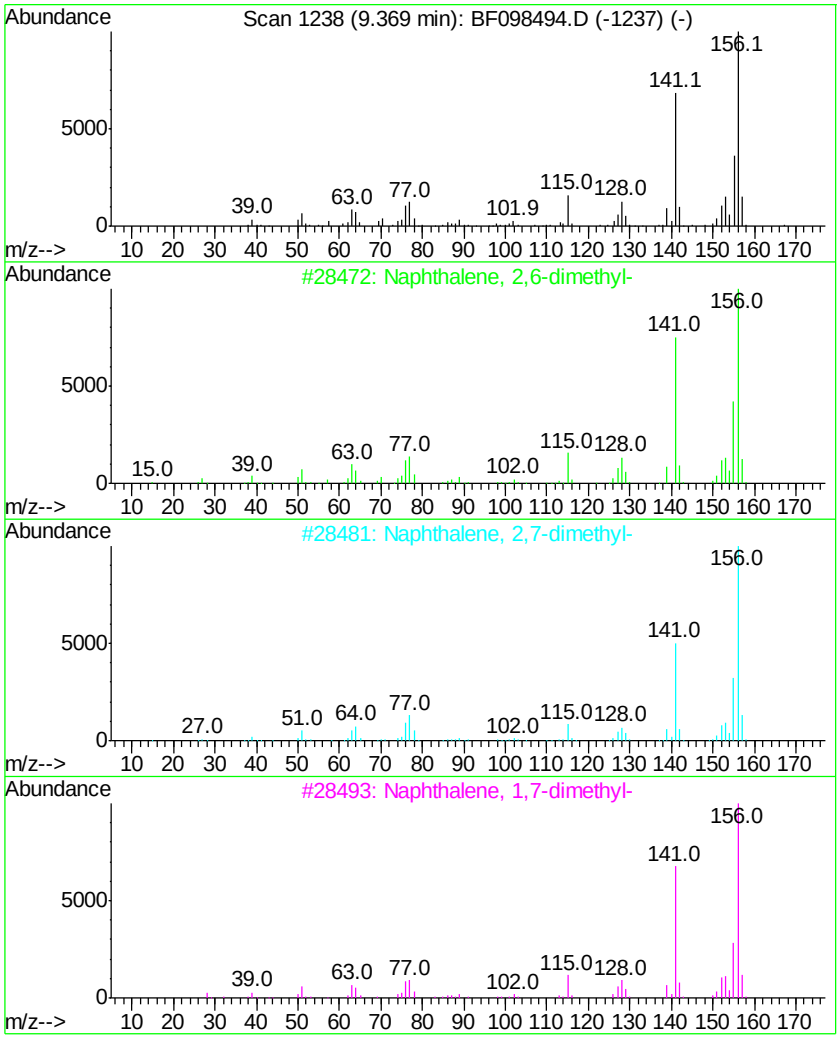
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

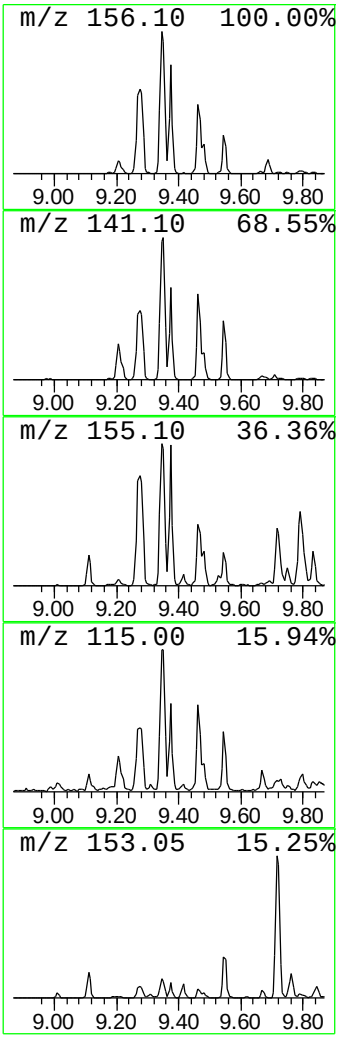
****

Peak Number 6 Naphthalene, 2,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	6.11 ng	552709	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098494.D
Acq On : 13 Sep 2017 17:21
Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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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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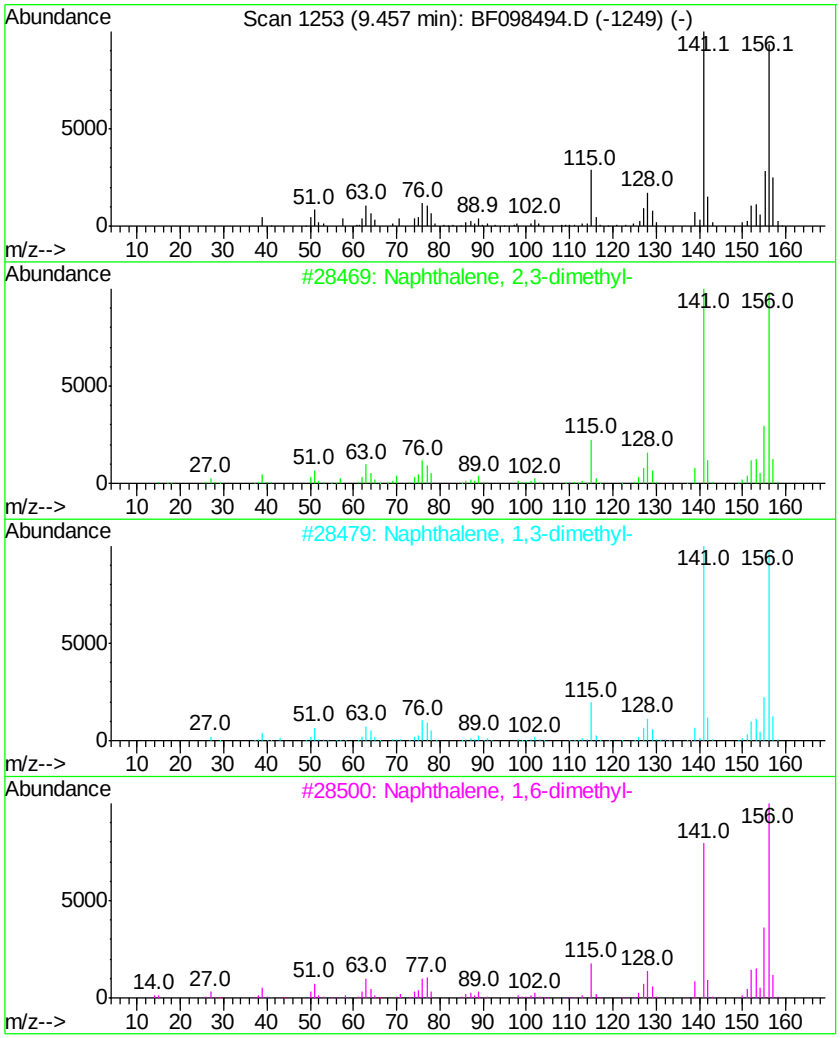
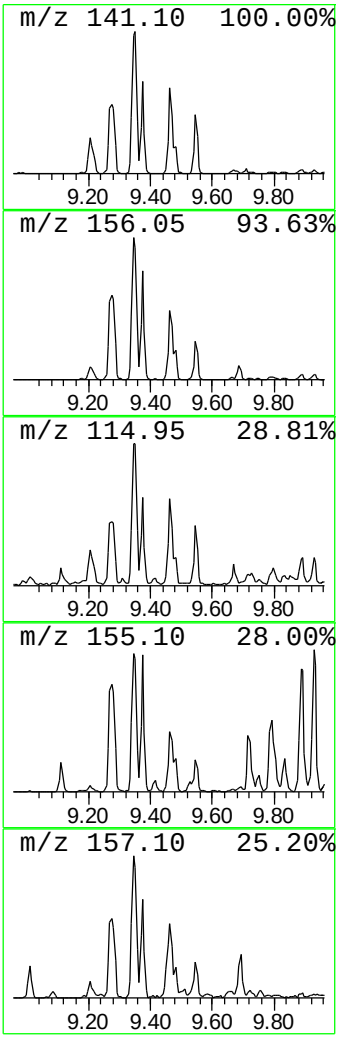
Peak Number 7 Naphthalene, 2,3-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.46	6.33 ng	573063	Acenaphthene-d10	9.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	96





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Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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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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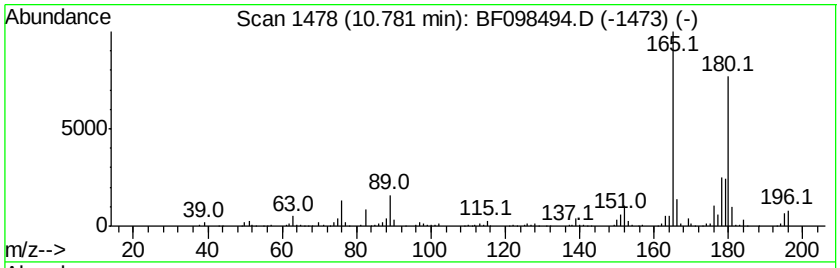
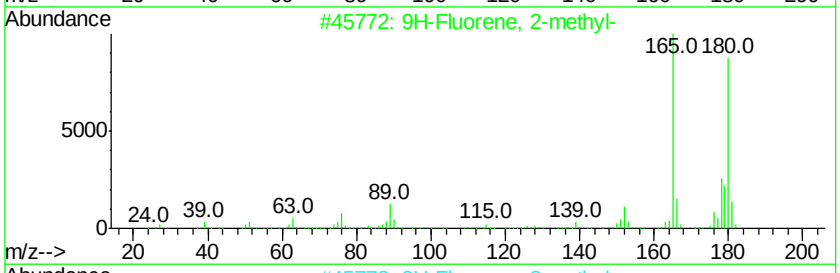
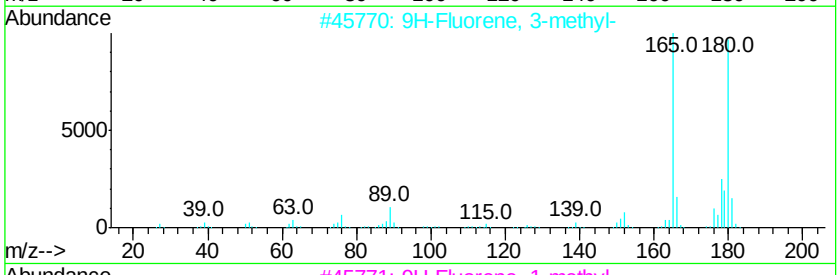
Peak Number 8 9H-Fluorene, 2-methyl- Concentration Rank 13

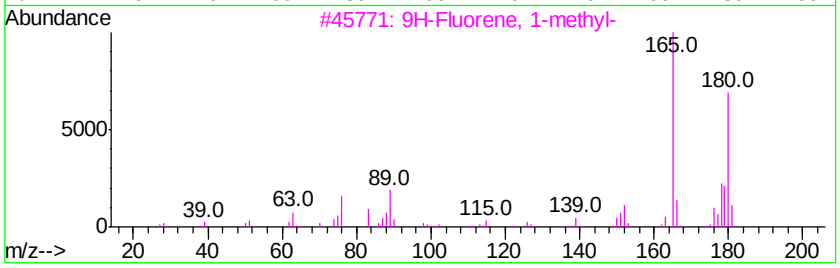
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	7.77 ng	618553	Phenanthrene-d10	11.17

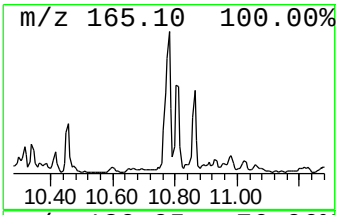
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	58

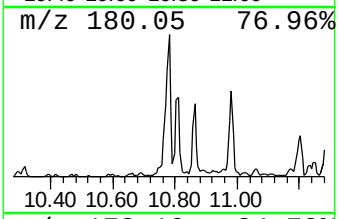


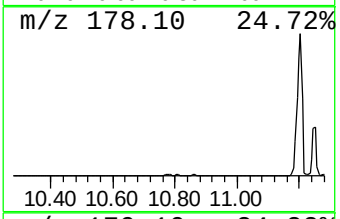


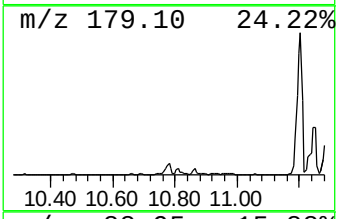


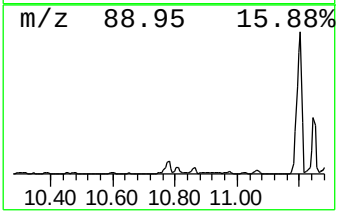












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Operator : SJ/JU
Sample : I5208-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-091117-A

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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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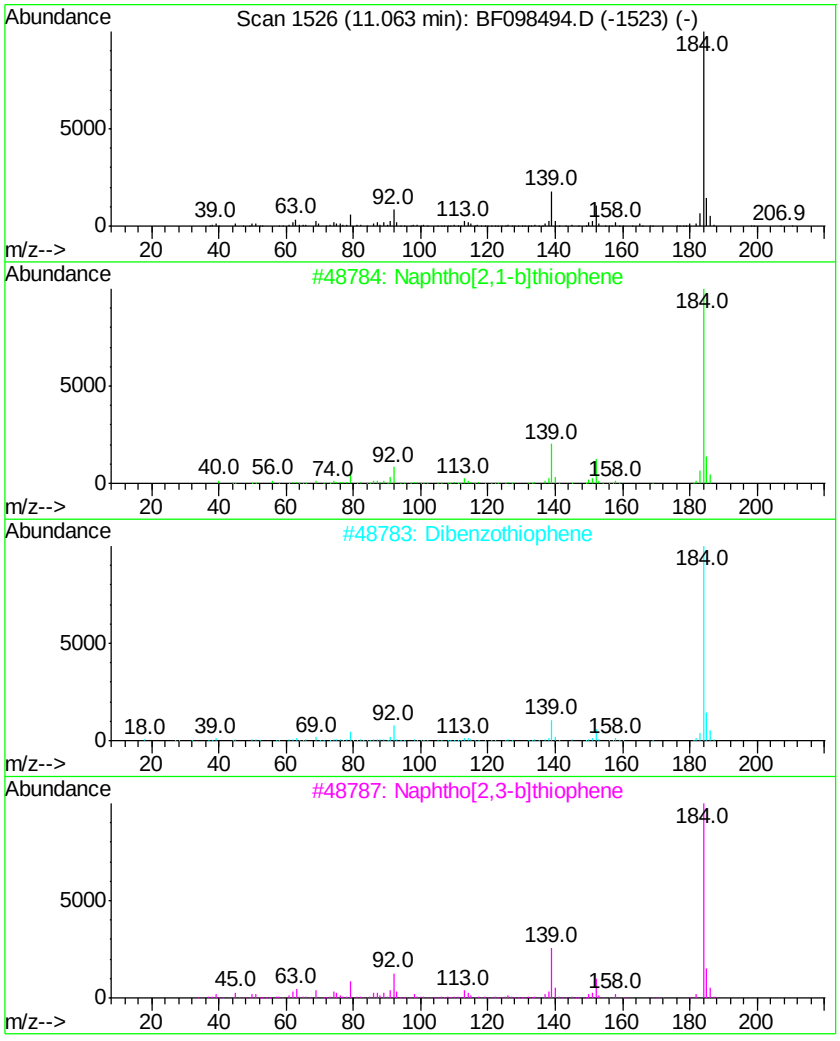
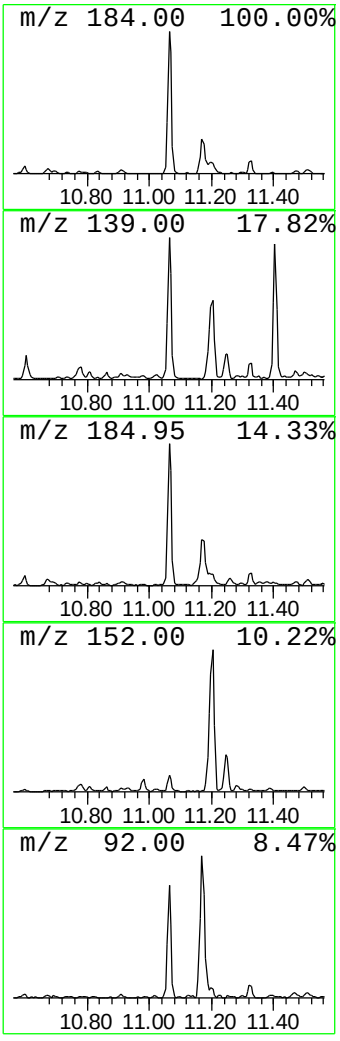
Peak Number 9 Naphtho[2,1-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	10.47 ng	833785	Phenanthrene-d10	11.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





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Misc :
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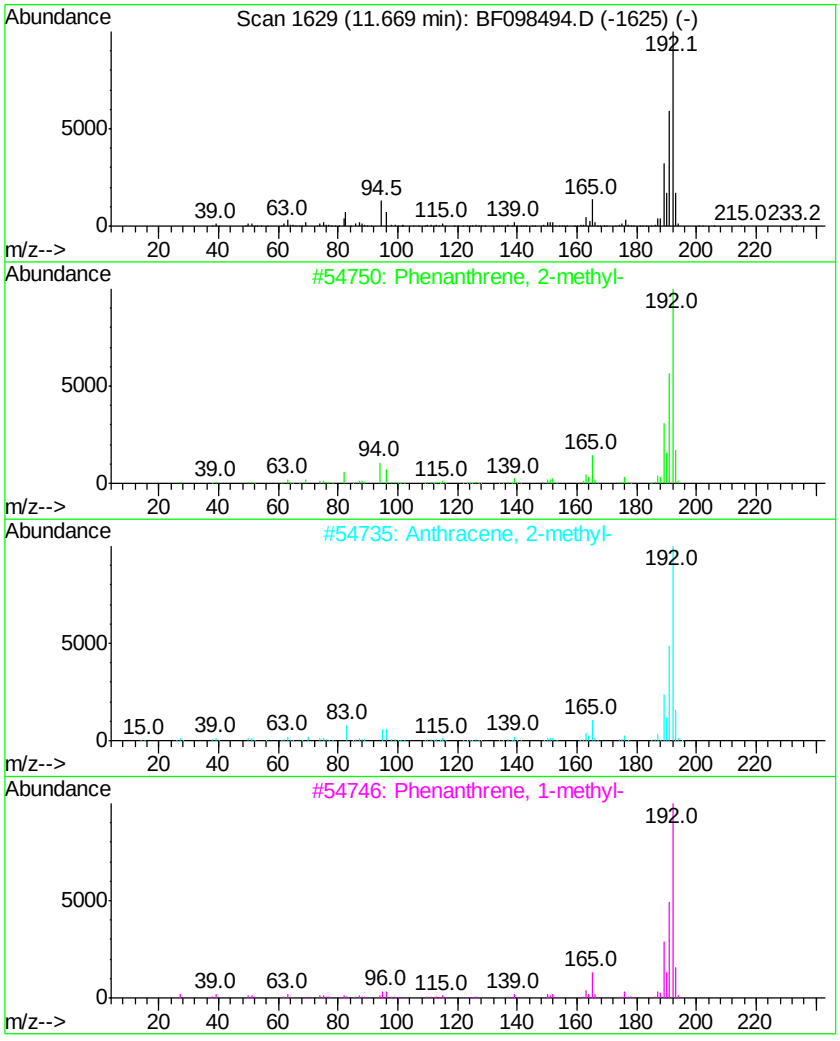
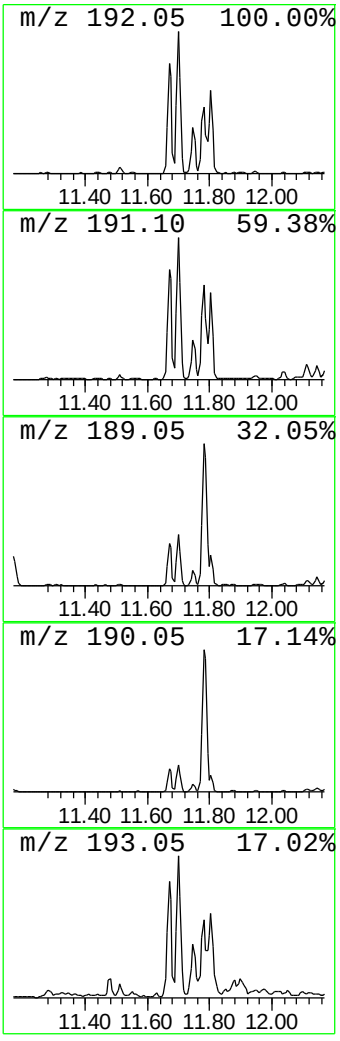
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	16.40 ng	1305530	Phenanthrene-d10	11.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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TIC Integration Parameters: LSCINT.P

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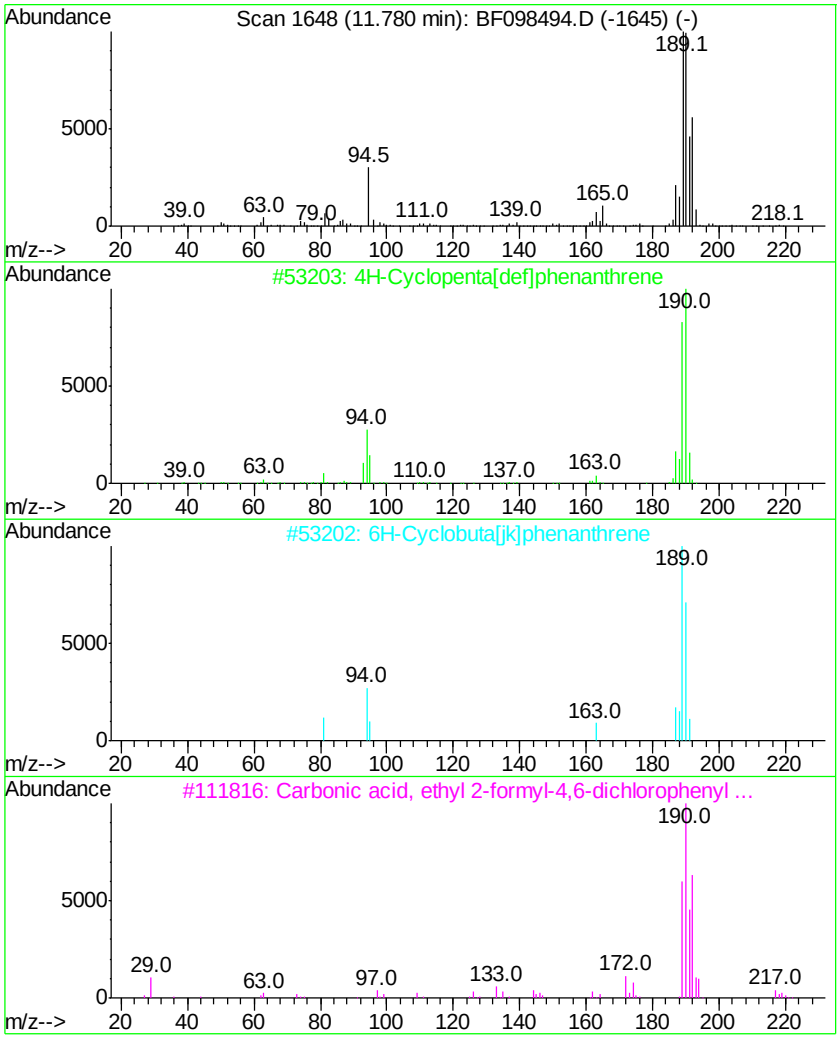
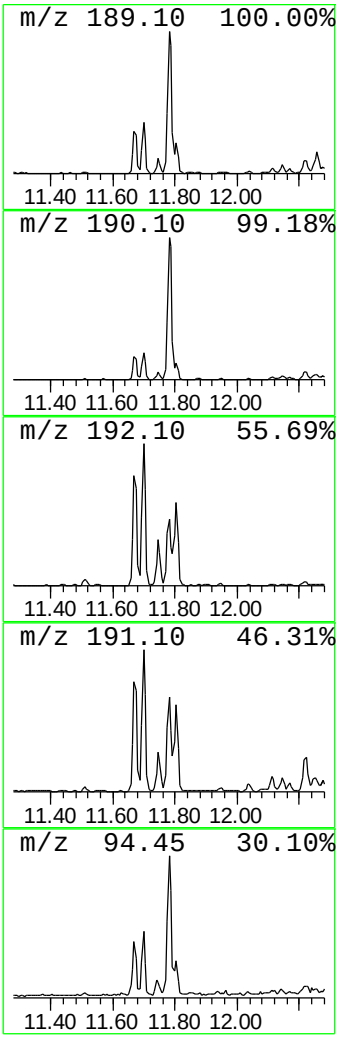
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	27.25 ng	2169550	Phenanthrene-d10	11.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
5	3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	30





Library Search Compound Report

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

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Peak Number 14 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	6.99 ng	556441	Phenanthrene-d10	11.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	81
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	76