LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

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-BF113017.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	5.028	498	500	508	rBV	12612	15272	3.43%	0.228%
2	5.440	567	570	584	rBV	170251	195285	43.87%	2.918%
3	6.457	740	743	753	rBV	198247	215608	48.43%	3.222%
4	6.598	763	767	775	rVB	264835	227832	51.18%	3.404%
5	6.828	802	806	815	rBB	356238	291562	65.49%	4.357%
6	6.981	829	832	839	rVB	218483	181804	40.84%	2.717%
7	7.392	898	902	910	rBB	139426	134917	30.31%	2.016%
8	8.110	1020	1024	1031	rVB	470147	381608	85.72%	5.702%
9	8.692	1120	1123	1127	rVB	6991	5872	1.32%	0.088%
10	8.828	1143	1146	1149	rBB	8706	7420	1.67%	0.111%
11	8.928	1158	1163	1166	rBV	6381	6579	1.48%	0.098%
12	9.122	1194	1196	1200	rVB	7747	6273	1.41%	0.094%
13	9.181	1203	1206	1210	rBV	321530	282436	63.44%	4.220%
14	9.257	1216	1219	1222	rVB2	15747	12926	2.90%	0.193%
15	9.451	1249	1252	1256	rBV	5215	6385	1.43%	0.095%
16	9.522	1261	1264	1267	rBV2	10688	11620	2.61%	0.174%
17	9.581	1270	1274	1276	rVB	30156	27952	6.28%	0.418%
18	9.728	1297	1299	1301	rBV	9401	6412	1.44%	0.096%
19	9.786	1305	1309	1314	rBV2	27719	29579	6.64%	0.442%
20	9.869	1319	1323	1326	rVV2	491153	412694	92.70%	6.167%
21	9.898	1326	1328	1331	rVB	26240	22102	4.96%	0.330%
22	9.969	1337	1340	1344	rVB3	4847	5428	1.22%	0.081%
23	10.022	1344	1349	1351	rBV4	4356	5776	1.30%	0.086%
24	10.075	1355	1358	1361	rVB2	16035	15551	3.49%	0.232%
25	10.110	1361	1364	1368	rBV3	14287	11542	2.59%	0.172%
26	10.180	1373	1376	1379	rBV2	6694	6850	1.54%	0.102%
27	10.210	1379	1381	1386	rVB4	4866	5327	1.20%	0.080%
28	10.286	1386	1394	1397	rBV3	29755	29120	6.54%	0.435%
29	10.416	1413	1416	1423	rVB2	16488	16317	3.67%	0.244%
30	10.480	1423	1427	1429	rBV	5176	5867	1.32%	0.088%
31	10.504	1429	1431	1433	rVB	14744	11939	2.68%	0.178%
32	10.575	1441	1443	1450	rVB4	5938	8333	1.87%	0.125%
33	10.663	1454	1458	1461	rBV	71646	65317	14.67%	0.976%
34	10.763	1472	1475	1480	rBV4	28416	38827	8.72%	0.580%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

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-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.969	1505	1510	1512	rBV4	7620	10074	2.26%	0.151%
36	10.992	1512	1514	1517	rVB3	5349	6012	1.35%	0.090%
37	11.092	1526	1531	1533	rBV4	6482	10587	2.38%	0.158%
38	11.169	1541	1544	1547	rBV	12478	12719	2.86%	0.190%
39	11.210	1548	1551	1554	rVV	23464	21794	4.90%	0.326%
40	11.239	1554	1556	1557	rVV	11859	9906	2.23%	0.148%
41	11.257	1557	1559	1563	rVB	15009	11328	2.54%	0.169%
42	11.363	1573	1577	1579	rBV	476126	427918	96.12%	6.394%
43	11.386	1579	1581	1587	rVV	264115	214061	48.08%	3.199%
44	11.433	1587	1589	1592	rVV	52227	45862	10.30%	0.685%
45	11.475	1595	1596	1601	rVB3	6498	6724	1.51%	0.100%
46	11.592	1612	1616	1621	rBV2	14935	20631	4.63%	0.308%
47	11.633	1621	1623	1625	rBV2	13239	9447	2.12%	0.141%
48	11.692	1630	1633	1638	rVB3	8100	10861	2.44%	0.162%
49	11.863	1659	1662	1665	rBV	44043	41281	9.27%	0.617%
50	11.892	1665	1667	1670	rVB	58243	46394	10.42%	0.693%
51	11.939	1670	1675	1678	rBV	22121	22306	5.01%	0.333%
52	11.974	1678	1681	1683	rVV2	53424	56933	12.79%	0.851%
53	11.998	1683	1685	1688	rVB	30185	24670	5.54%	0.369%
54	12.045	1690	1693	1696	rBV	15421	12397	2.78%	0.185%
55	12.157	1708	1712	1716	rBV	29192	32131	7.22%	0.480%
56	12.192	1716	1718	1721	rVB2	20588	17681	3.97%	0.264%
57	12.304	1733	1737	1741	rBV4	11345	17811	4.00%	0.266%
58	12.339	1741	1743	1745	rVV	11932	9679	2.17%	0.145%
59	12.363	1745	1747	1750	rVB3	6806	6285	1.41%	0.094%
60	12.410	1752	1755	1758	rVV	31193	32408	7.28%	0.484%
61	12.433	1758	1759	1761	rVV3	19365	15763	3.54%	0.236%
62	12.474	1764	1766	1768	rVB	9381	7680	1.73%	0.115%
63	12.504	1768	1771	1775	rBV3	20695	25894	5.82%	0.387%
64	12.580	1780	1784	1787	rBV	345584	304301	68.36%	4.547%
65	12.616	1787	1790	1792	rVB3	8258	7897	1.77%	0.118%
66	12.639	1792	1794	1797	rBV4	12091	10508	2.36%	0.157%
67	12.669	1797	1799	1803	rBV5	7607	8218	1.85%	0.123%
68	12.733	1805	1810	1811	rBV3	14475	16433	3.69%	0.246%
69	12.757	1811	1814	1817	rVB5	7482	5850	1.31%	0.087%
70	12.810	1817	1823	1829	rBV	319227	336111	75.50%	5.022%
71	12.857	1829	1831	1835	rVB3	20644	23290	5.23%	0.348%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.939	1835	1845	1848	rBV	273122	275932	61.98%	4.123%
73	12.969	1848	1850	1853	rVB2	14204	12287	2.76%	0.184%
74	13.027	1855	1860	1865	rBV3	25215	51019	11.46%	0.762%
75	13.133	1871	1878	1881	rBV2	35202	59854	13.45%	0.894%
76	13.204	1887	1890	1892	rBV	18084	13588	3.05%	0.203%
77	13.239	1893	1896	1899	rVV2	28819	29100	6.54%	0.435%
78	13.333	1910	1912	1915	rBV	26757	22148	4.98%	0.331%
79	13.363	1915	1917	1921	rBV2	24210	28903	6.49%	0.432%
80	13.504	1936	1941	1944	rBV7	16454	25927	5.82%	0.387%
81	13.557	1948	1950	1952	rVB3	13852	10081	2.26%	0.151%
82	13.651	1963	1966	1969	rVB	25474	21877	4.91%	0.327%
83	13.704	1973	1975	1978	rVB5	13102	10139	2.28%	0.151%
84	13.757	1982	1984	1987	rVV	26528	28167	6.33%	0.421%
85	13.780	1987	1988	1991	rVV	22941	18999	4.27%	0.284%
86	13.827	1991	1996	1999	rVV3	45716	68636	15.42%	1.026%
87	13.863	1999	2002	2005	rVB	29648	26099	5.86%	0.390%
88	14.010	2022	2027	2030	rBV2	386512	445173	100.00%	6.652%
89	14.033	2030	2031	2034	rVB	111794	81928	18.40%	1.224%
90	14.116	2043	2045	2047	rVB	19362	12199	2.74%	0.182%
91	14.357	2084	2086	2088	rBV2	14121	12965	2.91%	0.194%
92	14.398	2091	2093	2096	rVB	25327	22814	5.12%	0.341%
93	15.057	2202	2205	2208	rBV	95491	120949	27.17%	1.807%
94	15.363	2254	2257	2263	rVB	63472	71200	15.99%	1.064%
95	15.427	2264	2268	2273	rVB	90869	113532	25.50%	1.696%
96	15.492	2273	2279	2282	rBV	217690	292613	65.73%	4.372%
97	16.592	2462	2466	2471	rVB5	30989	51516	11.57%	0.770%
98	16.974	2526	2531	2539	rBV2	46821	100252	22.52%	1.498%
99	17.427	2604	2608	2613	rBV2	27968	49905	11.21%	0.746%
100	18.780	2836	2838	2839	rBV2	8343	6435	1.45%	0.096%

Sum of corrected areas: 6692414

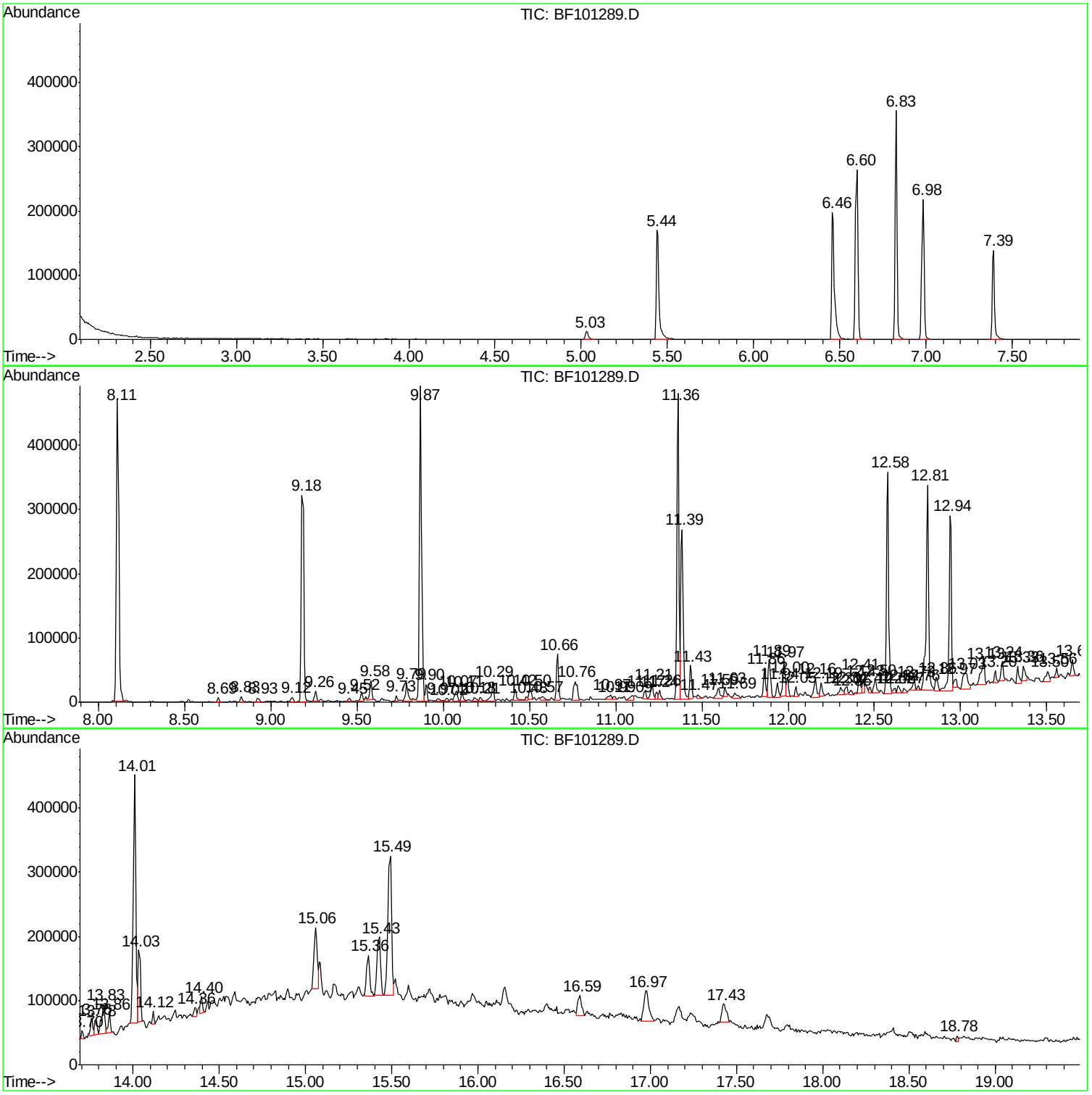
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
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Sample : I6747-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

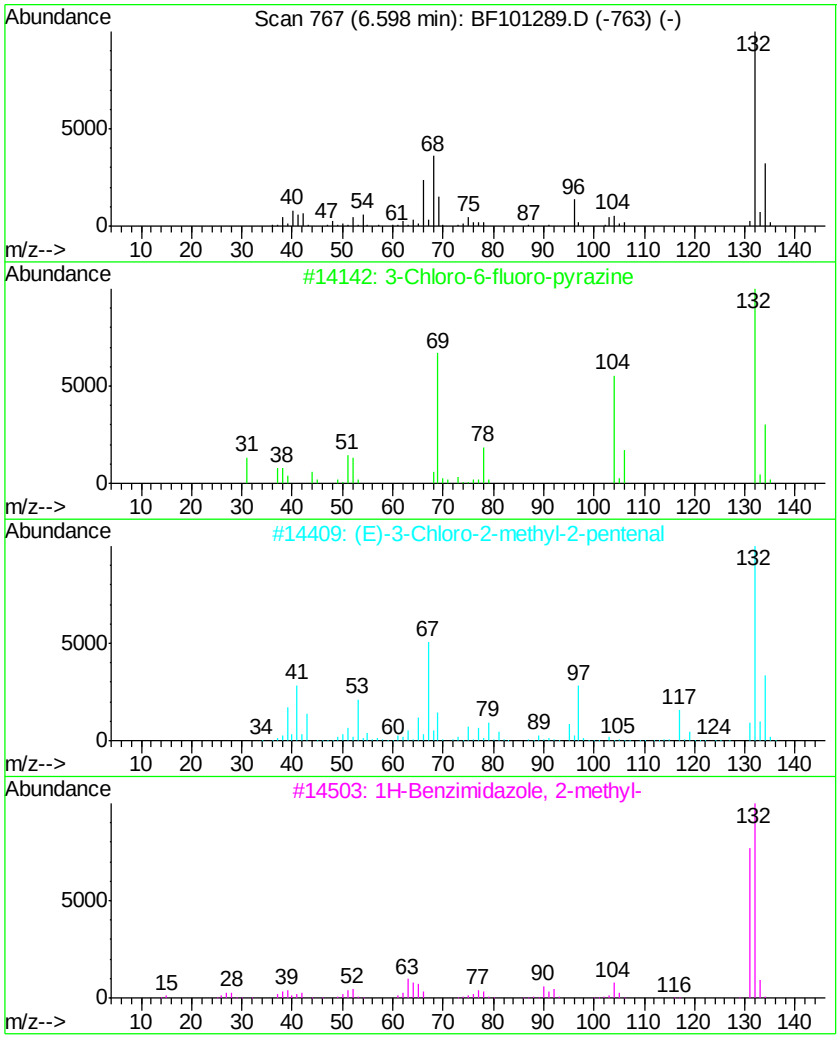
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

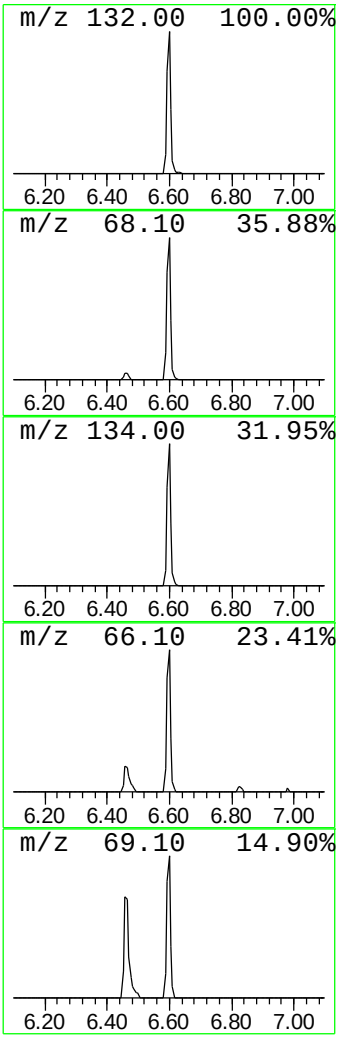
****

Peak Number 1 unknown6.60 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	15.63 ng	227832	1,4-Dichlorobenzene-d4	6.83

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	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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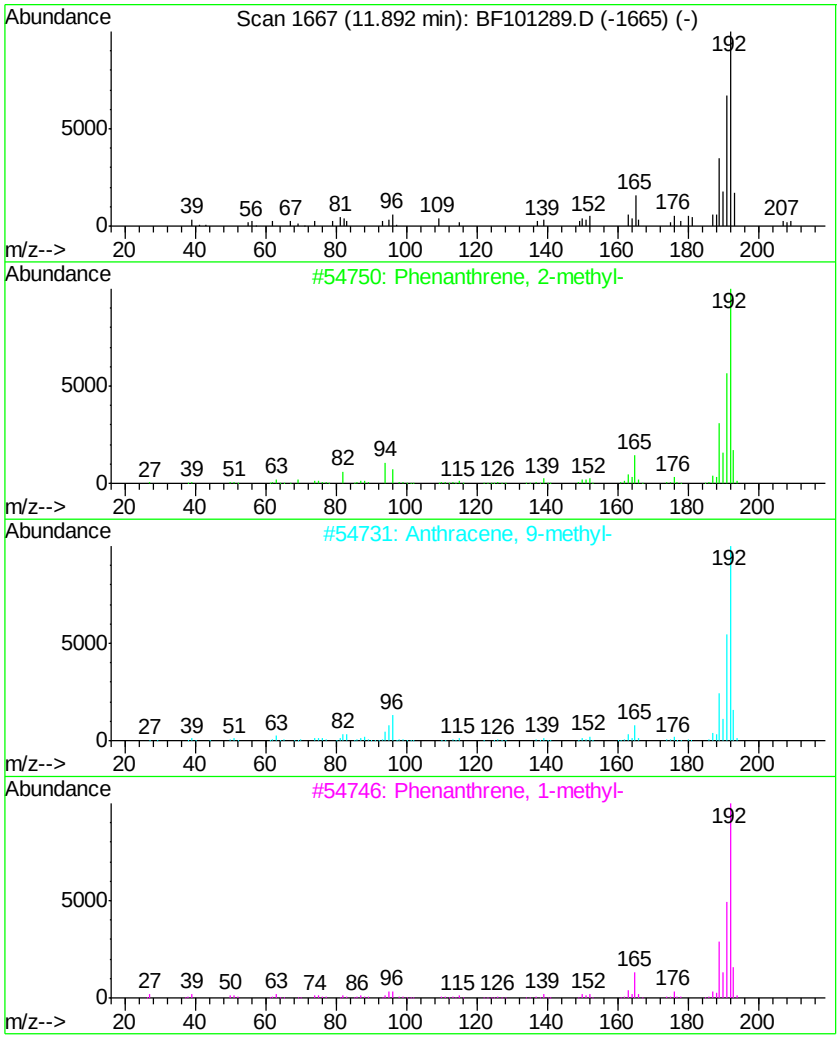
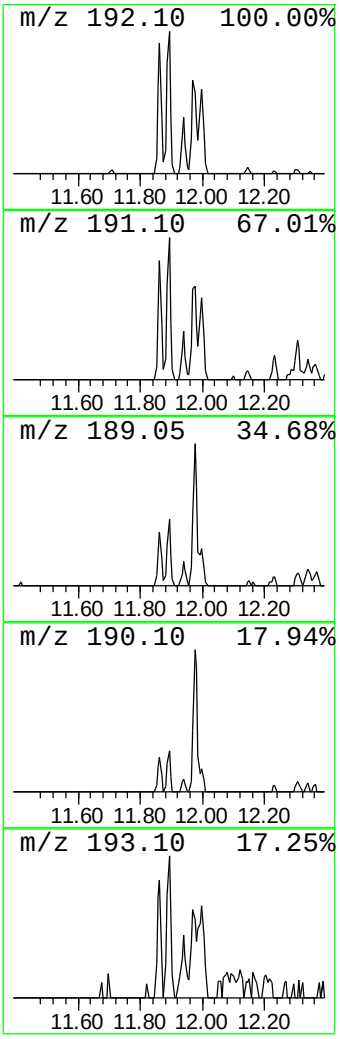
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	2.17 ng	46394	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
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Sample : I6747-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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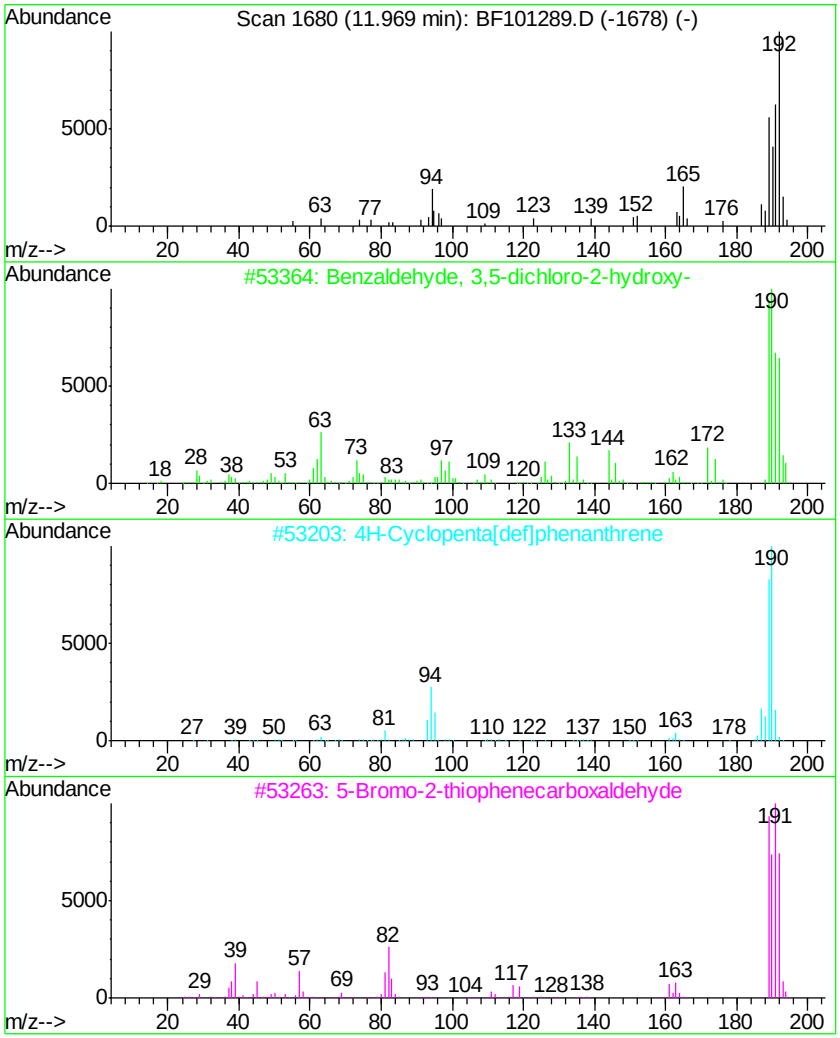
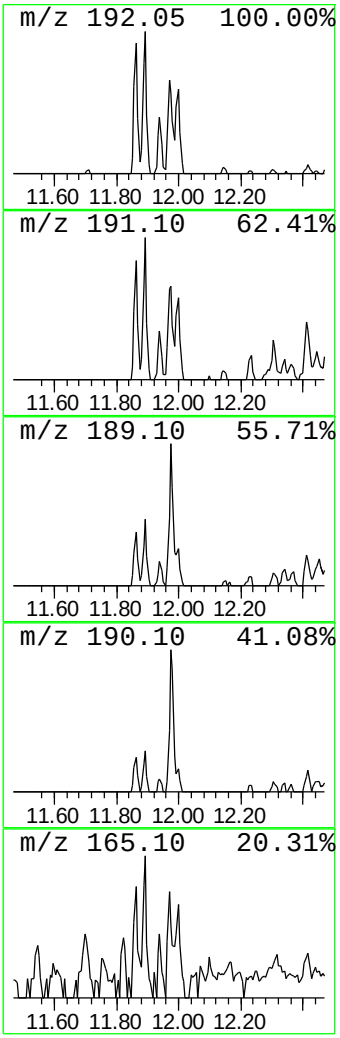
Peak Number 4 Benzaldehyde, 3,5-dichloro-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	2.66 ng	56933	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	53
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	41





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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
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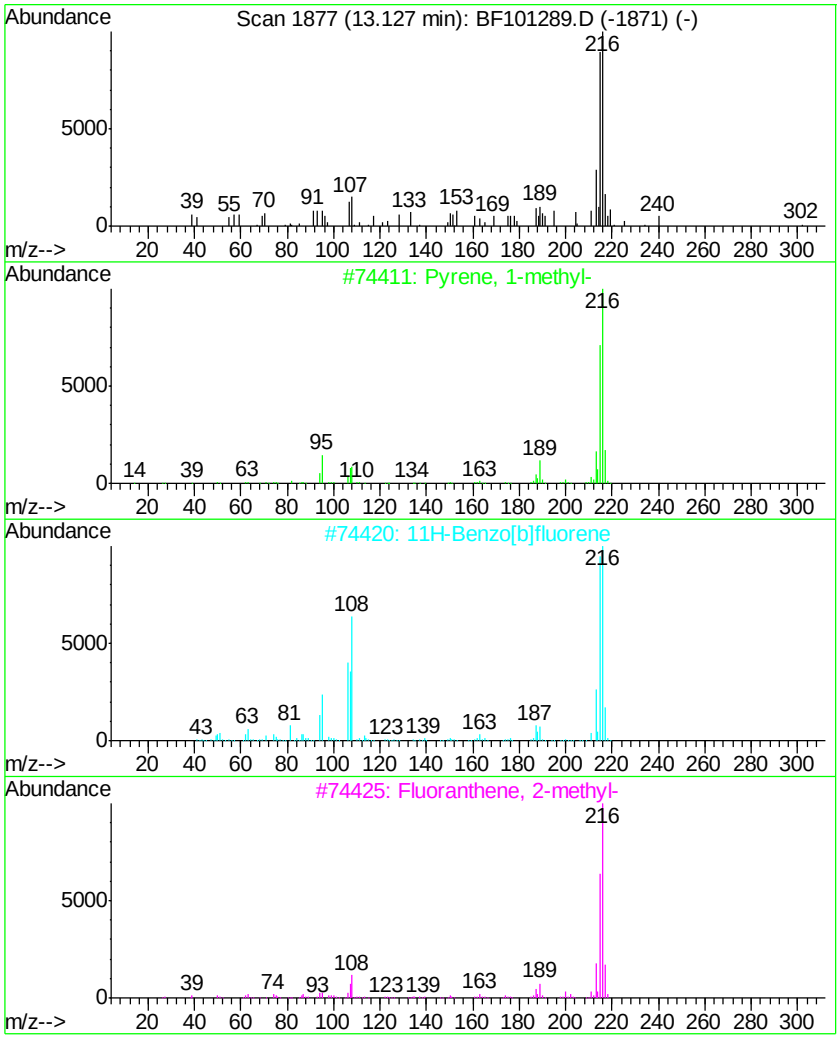
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

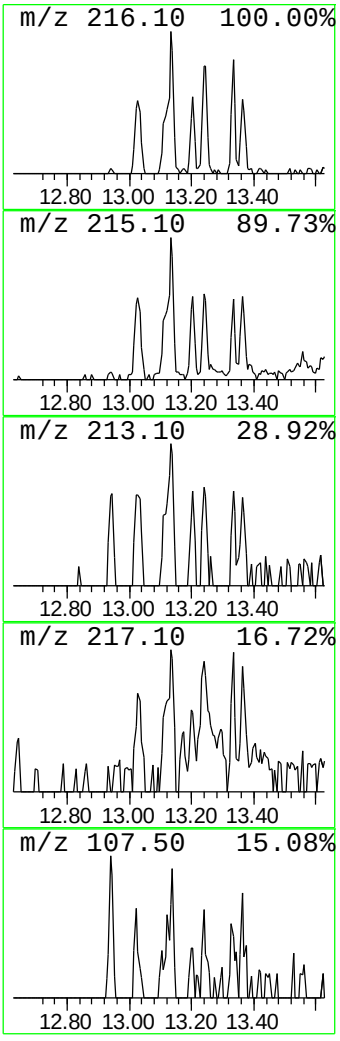
****

Peak Number 6 Pyrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.13	2.69 ng	59854	Chrysene-d12	14.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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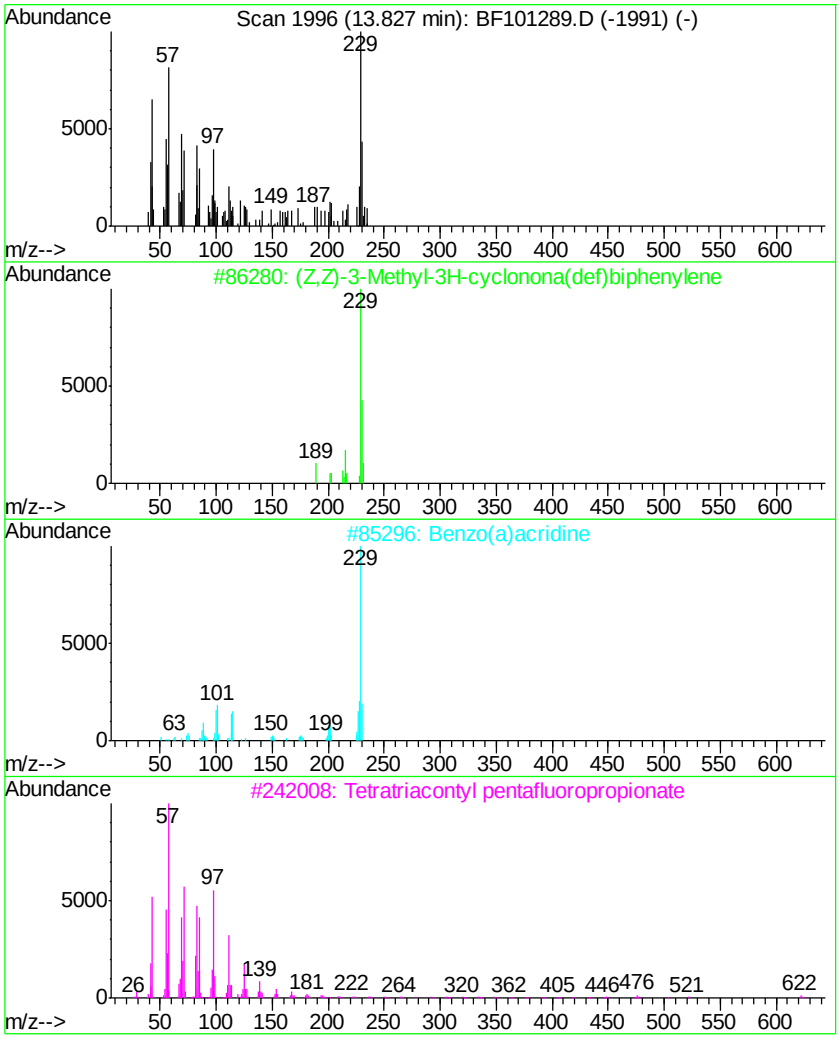
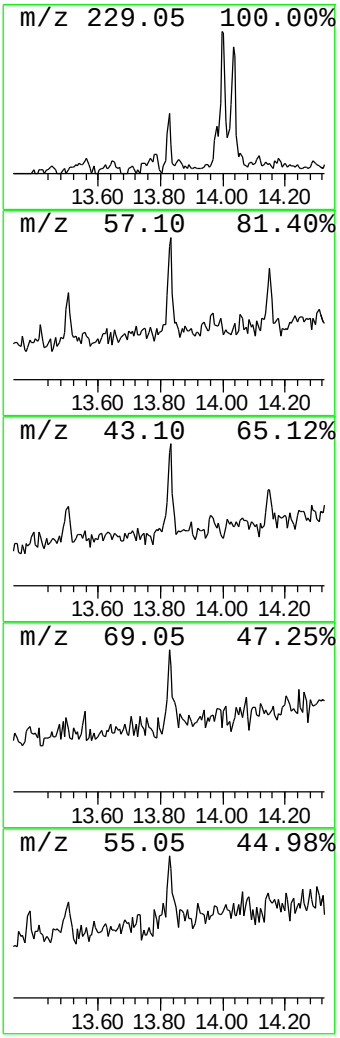
Peak Number 7 (Z,Z)-3-Methyl-3H-cyclonona... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	3.08 ng	68636	Chrysene-d12	14.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z,Z)-3-Methyl-3H-cyclonona(def)...	230	C18H14	110823-80-8	59
2	Benzo(a)acridine	229	C17H11N	000225-11-6	38
3	Tetratriacontyl pentafluoropropi...	641	C37H69F5O2	1000351-81-5	30
4	Carbonic acid, isobutyl pentadec...	328	C20H40O3	1000314-61-2	30
5	Trihexadecyl borate	735	C48H99BO3	002665-11-4	30





Library Search Compound Report

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Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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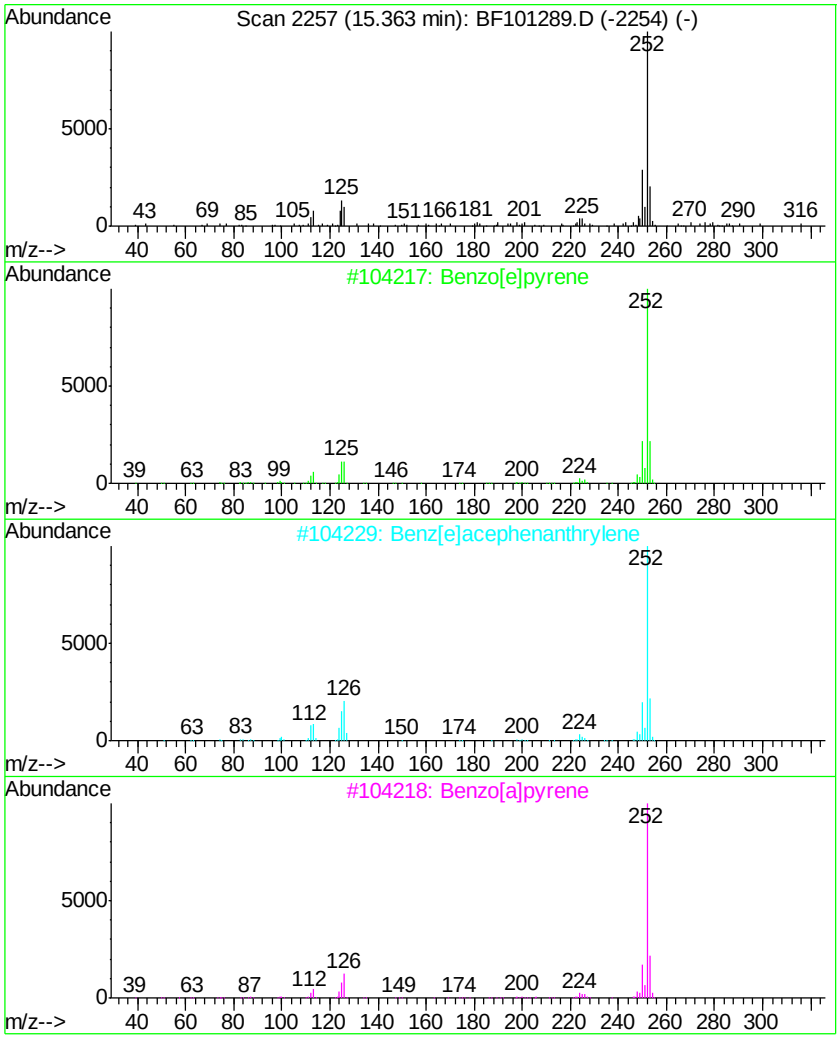
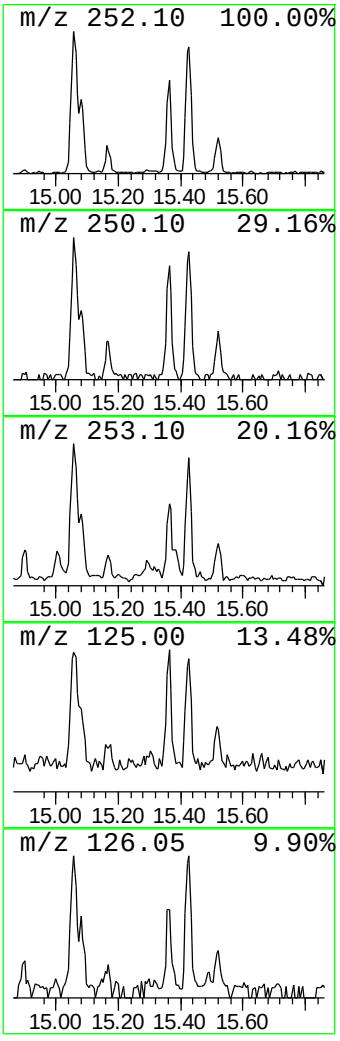
Peak Number 8 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	4.87 ng	71200	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Perylene	252	C20H12	000198-55-0	89
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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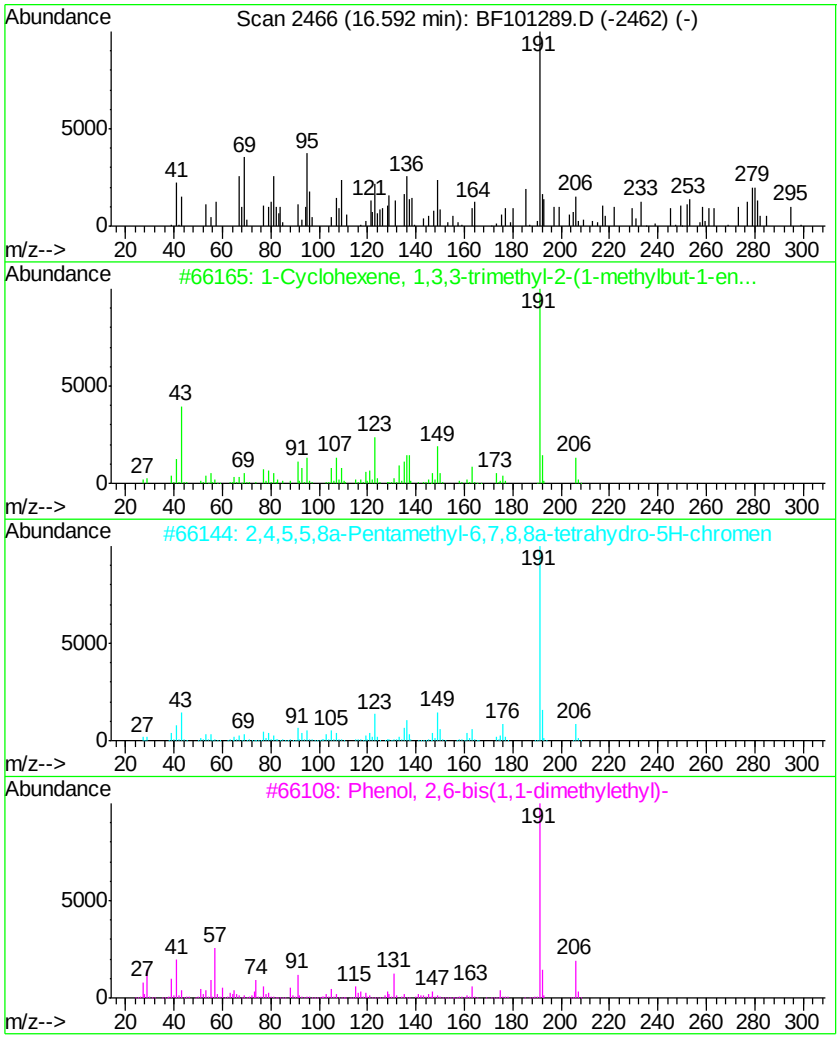
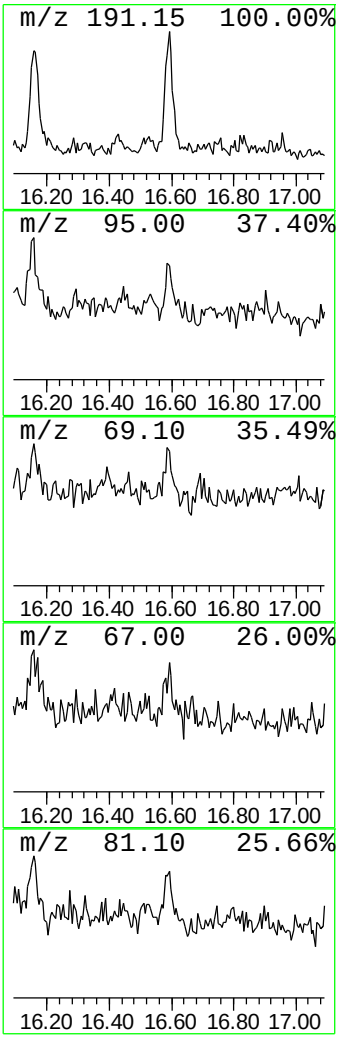
Peak Number 9 1-Cyclohexene, 1,3,3-trimet... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.59	3.52 ng	51516	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Cyclohexene, 1,3,3-trimethyl-2...	206	C14H22O	1000197-08-4	56
2	2,4,5,5,8a-Pentamethyl-6,7,8,8a-...	206	C14H22O	1000195-40-9	42
3	Phenol, 2,6-bis(1,1-dimethylethyl)-	206	C14H22O	000128-39-2	38
4	Phenol, 3,5-bis(1,1-dimethylethyl)-	206	C14H22O	001138-52-9	38
5	Phenol, 2,4-bis(1,1-dimethylethyl)-	206	C14H22O	000096-76-4	30





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
Data File : BF101289.D
Acq On : 11 Dec 2017 15:09
Operator : SJ/JU
Sample : I6747-03 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-103-1(0-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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
unknown6.60	6.60	15.6	ng	227832	1	6.83	291562	20.0
Phenanthrene, 2-m...	11.89	2.2	ng	46394	4	11.36	427918	20.0
Benzaldehyde, 3,5...	11.97	2.7	ng	56933	4	11.36	427918	20.0
Pyrene, 1-methyl-	13.13	2.7	ng	59854	5	14.01	445173	20.0
(Z,Z)-3-Methyl-3H...	13.83	3.1	ng	68636	5	14.01	445173	20.0
Benzo[e]pyrene	15.36	4.9	ng	71200	6	15.49	292613	20.0
1-Cyclohexene, 1,...	16.59	3.5	ng	51516	6	15.49	292613	20.0