LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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	5.404	560	564	571	rBV	359316	340448	1.46%	0.149%
2	6.422	734	737	746	rBV	386956	401602	1.72%	0.176%
3	6.563	757	761	769	rBV	415926	361112	1.55%	0.158%
4	6.792	797	800	804	rBV	1430690	1275980	5.48%	0.560%
5	8.075	1015	1018	1020	rBV	1660976	1548875	6.65%	0.679%
6	8.098	1020	1022	1026	rVB	1845440	1410961	6.06%	0.619%
7	8.792	1136	1140	1143	rBV	682983	575619	2.47%	0.252%
8	8.892	1152	1157	1162	rBV	538966	501140	2.15%	0.220%
9	9.151	1198	1201	1207	rVB	478514	366708	1.57%	0.161%
10	9.422	1241	1247	1251	rBV	249354	347316	1.49%	0.152%
11	9.492	1255	1259	1261	rBV	447977	421983	1.81%	0.185%
12	9.833	1311	1317	1320	rBV2	1845893	1731185	7.43%	0.759%
13	9.869	1320	1323	1326	rVV	5631504	4533162	19.46%	1.988%
14	10.039	1348	1352	1355	rBV	2054035	1836914	7.89%	0.806%
15	10.380	1406	1410	1413	rBV	3958916	3348853	14.38%	1.469%
16	10.445	1419	1421	1423	rVV	559941	478044	2.05%	0.210%
17	10.469	1423	1425	1427	rVV	625259	492753	2.12%	0.216%
18	10.516	1430	1433	1434	rVV	378159	363766	1.56%	0.160%
19	10.539	1434	1437	1442	rVB	723888	667894	2.87%	0.293%
20	10.616	1447	1450	1454	rVV	1021141	1147703	4.93%	0.503%
21	10.739	1462	1471	1478	rVB3	302786	418406	1.80%	0.183%
22	10.928	1496	1503	1506	rBV3	637260	966350	4.15%	0.424%
23	11.080	1527	1529	1533	rVV	380992	365395	1.57%	0.160%
24	11.122	1533	1536	1541	rVB	1303967	1173844	5.04%	0.515%
25	11.175	1541	1545	1548	rBV2	457912	662999	2.85%	0.291%
26	11.216	1548	1552	1555	rVB	1564935	1382659	5.94%	0.606%
27	11.363	1564	1577	1579	rBV	12959400	21432405	92.00%	9.399%
28	11.404	1579	1584	1586	rVV	7570596	7162894	30.75%	3.141%
29	11.427	1586	1588	1592	rVB	913715	729556	3.13%	0.320%
30	11.545	1602	1608	1611	rBV2	3353783	3700341	15.88%	1.623%
31	11.616	1616	1620	1623	rVV3	509741	528196	2.27%	0.232%
32	11.651	1623	1626	1631	rVB4	370710	395783	1.70%	0.174%
33	11.822	1649	1655	1657	rBV	2474149	2297491	9.86%	1.008%
34	11.851	1657	1660	1664	rVB	3442344	3060631	13.14%	1.342%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.898	1664	1668	1671	rBV	1461823	1339536	5.75%	0.587%
36	11.939	1671	1675	1677	rBV	4609350	5193396	22.29%	2.278%
37	12.116	1702	1705	1707	rBV	2012099	1672240	7.18%	0.733%
38	12.139	1707	1709	1713	rVB	1869177	1671081	7.17%	0.733%
39	12.263	1725	1730	1733	rBV	539146	537891	2.31%	0.236%
40	12.298	1733	1736	1738	rBV	369660	329680	1.42%	0.145%
41	12.322	1738	1740	1744	rVB2	373290	305807	1.31%	0.134%
42	12.369	1744	1748	1753	rBV2	745649	1244092	5.34%	0.546%
43	12.410	1753	1755	1761	rVB2	525329	701200	3.01%	0.308%
44	12.469	1761	1765	1771	rVB	976829	1301754	5.59%	0.571%
45	12.557	1771	1780	1783	rBV	12208944	23295744	100.00%	10.216%
46	12.598	1783	1787	1790	rVB2	676891	784859	3.37%	0.344%
47	12.686	1795	1802	1804	rBV2	1204350	1552173	6.66%	0.681%
48	12.774	1811	1817	1818	rBV3	10845009	16058165	68.93%	7.042%
49	12.810	1821	1823	1830	rVB	1046471	1143642	4.91%	0.502%
50	12.880	1831	1835	1838	rBV	1449736	1514151	6.50%	0.664%
51	12.916	1838	1841	1846	rVB	1648148	1758450	7.55%	0.771%
52	12.986	1846	1853	1855	rBV2	1256671	2266216	9.73%	0.994%
53	13.004	1855	1856	1860	rVB	815122	643828	2.76%	0.282%
54	13.069	1860	1867	1868	rBV4	1035081	1476607	6.34%	0.648%
55	13.092	1868	1871	1874	rVB	3322238	3058950	13.13%	1.342%
56	13.157	1878	1882	1885	rBV	2732509	2533086	10.87%	1.111%
57	13.192	1885	1888	1891	rVV2	1558101	1773288	7.61%	0.778%
58	13.221	1891	1893	1896	rVB	939001	796841	3.42%	0.349%
59	13.251	1896	1898	1901	rBV2	456219	355392	1.53%	0.156%
60	13.286	1901	1904	1906	rBV	682974	532993	2.29%	0.234%
61	13.316	1906	1909	1913	rBV2	822377	782723	3.36%	0.343%
62	13.392	1919	1922	1926	rVB4	388285	453642	1.95%	0.199%
63	13.469	1932	1935	1937	rBV2	331025	450584	1.93%	0.198%
64	13.492	1937	1939	1941	rVV3	538211	607061	2.61%	0.266%
65	13.516	1941	1943	1945	rVV	519285	480985	2.06%	0.211%
66	13.569	1949	1952	1954	rVV	342509	438249	1.88%	0.192%
67	13.592	1954	1956	1961	rVB	1057806	1305797	5.61%	0.573%
68	13.710	1971	1976	1978	rBV2	1714348	2061292	8.85%	0.904%
69	13.739	1978	1981	1983	rVV	1686214	1830228	7.86%	0.803%
70	13.763	1983	1985	1989	rVV2	1709701	2307578	9.91%	1.012%
71	13.804	1989	1992	1999	rVB	1467430	1694348	7.27%	0.743%

LSC Area Percent Report

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Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.874	1999	2004	2009	rBV	579553	849599	3.65%	0.373%
73	13.963	2011	2019	2021	rVV2	7595929	12142443	52.12%	5.325%
74	13.998	2021	2025	2029	rVV	7378441	8936190	38.36%	3.919%
75	14.068	2032	2037	2040	rVV	2325059	2503263	10.75%	1.098%
76	14.098	2040	2042	2045	rVV	502753	633809	2.72%	0.278%
77	14.145	2047	2050	2053	rVV	1072307	1047818	4.50%	0.460%
78	14.180	2053	2056	2060	rVV2	1258103	1437204	6.17%	0.630%
79	14.286	2070	2074	2076	rBV2	382598	508302	2.18%	0.223%
80	14.310	2076	2078	2080	rVV	508669	484183	2.08%	0.212%
81	14.345	2080	2084	2087	rVV	1447293	1679060	7.21%	0.736%
82	14.380	2087	2090	2093	rVV2	797928	852159	3.66%	0.374%
83	14.439	2097	2100	2103	rVV2	911433	1142288	4.90%	0.501%
84	14.468	2103	2105	2107	rVV	943432	962214	4.13%	0.422%
85	14.492	2107	2109	2112	rVV2	1292335	1170975	5.03%	0.514%
86	14.527	2112	2115	2123	rVB4	535058	1006951	4.32%	0.442%
87	14.645	2132	2135	2138	rBV2	648585	821315	3.53%	0.360%
88	14.727	2146	2149	2152	rBV3	338278	380202	1.63%	0.167%
89	14.833	2162	2167	2174	rVB2	580942	1003694	4.31%	0.440%
90	15.004	2189	2196	2199	rBV	5396696	10905786	46.81%	4.783%
91	15.027	2199	2200	2203	rVB	3755203	1953956	8.39%	0.857%
92	15.098	2209	2212	2215	rVB	1432751	1364534	5.86%	0.598%
93	15.180	2222	2226	2227	rBV3	388422	446355	1.92%	0.196%
94	15.292	2239	2245	2250	rVB2	3027901	4834510	20.75%	2.120%
95	15.363	2250	2257	2260	rBV	4638626	6553859	28.13%	2.874%
96	15.404	2261	2264	2267	rBV	676689	991460	4.26%	0.435%
97	15.439	2267	2270	2277	rVB	1947869	2516369	10.80%	1.104%
98	15.945	2354	2356	2361	rVB2	340243	401545	1.72%	0.176%
99	16.845	2501	2509	2515	rVB2	2038429	4316245	18.53%	1.893%
100	17.274	2574	2582	2594	rVB	1398041	3495061	15.00%	1.533%

Sum of corrected areas: 228023866

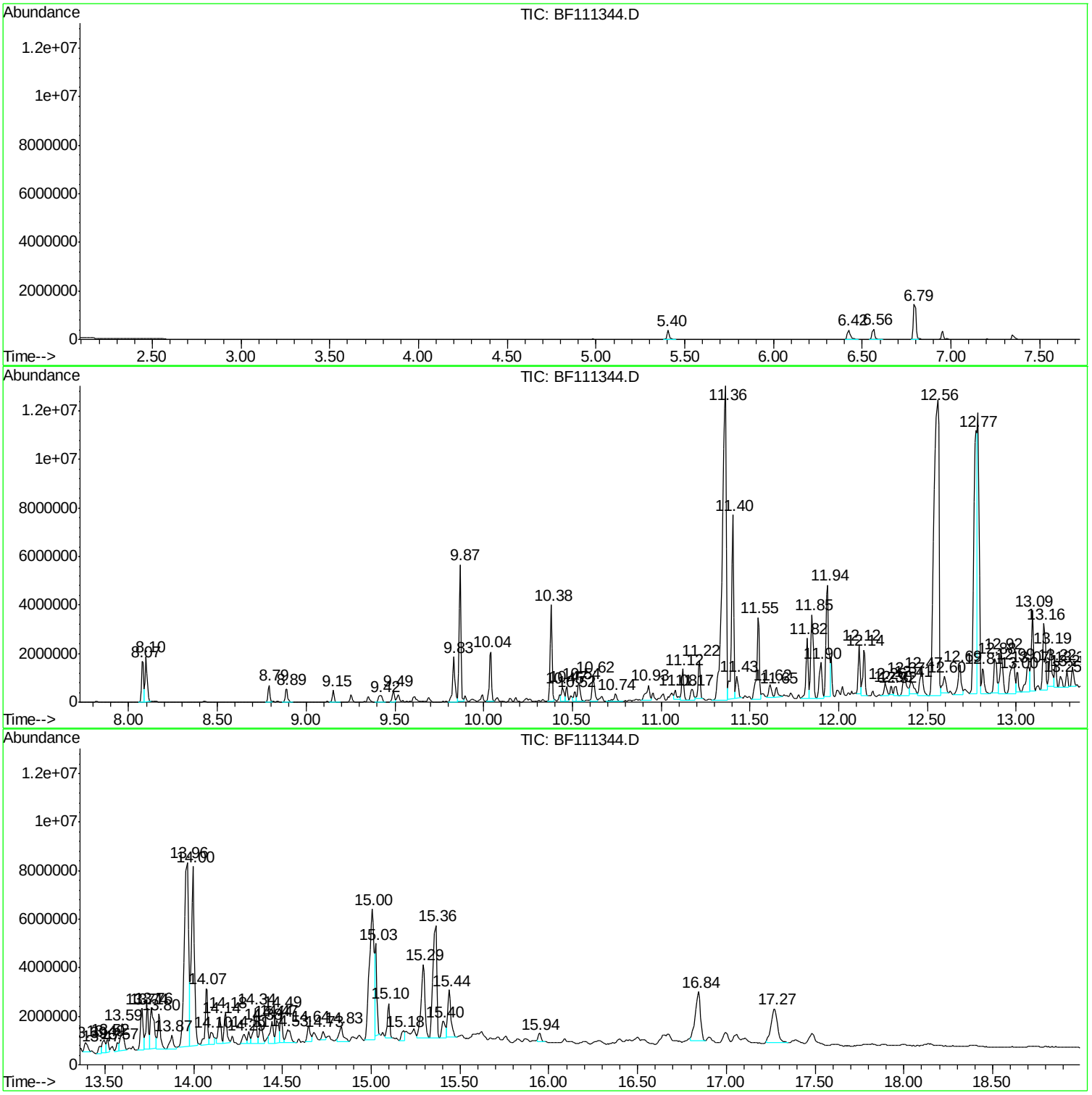
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

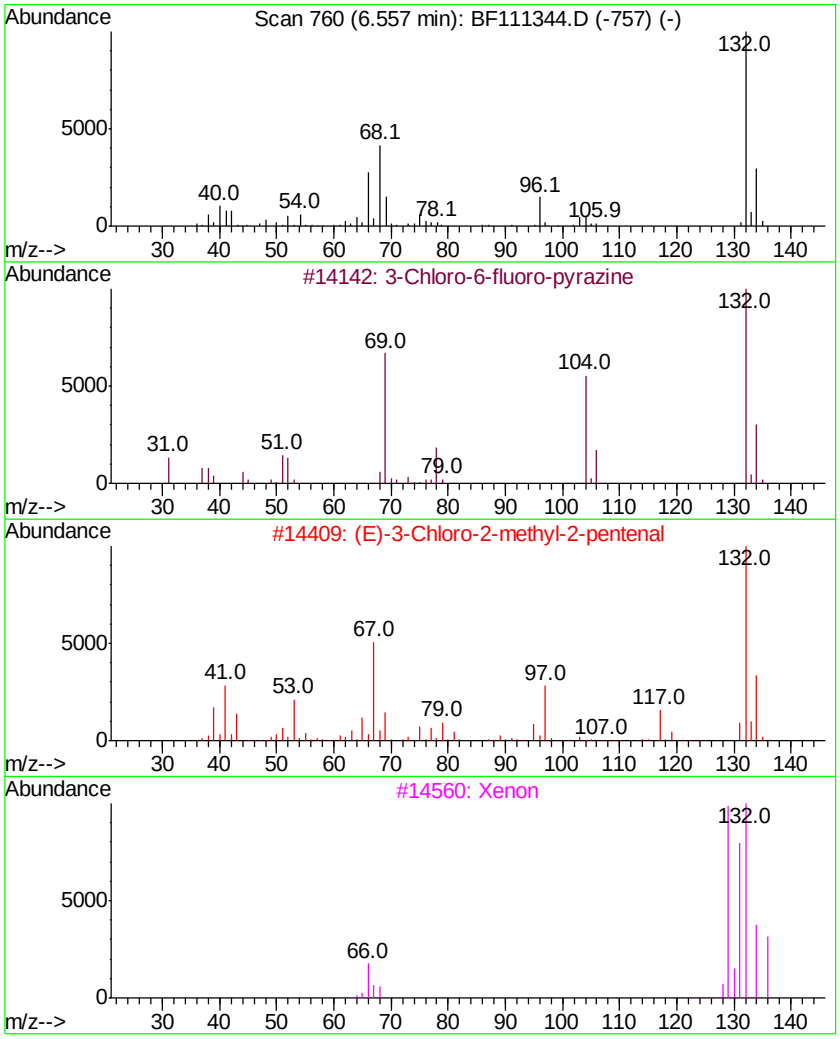
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

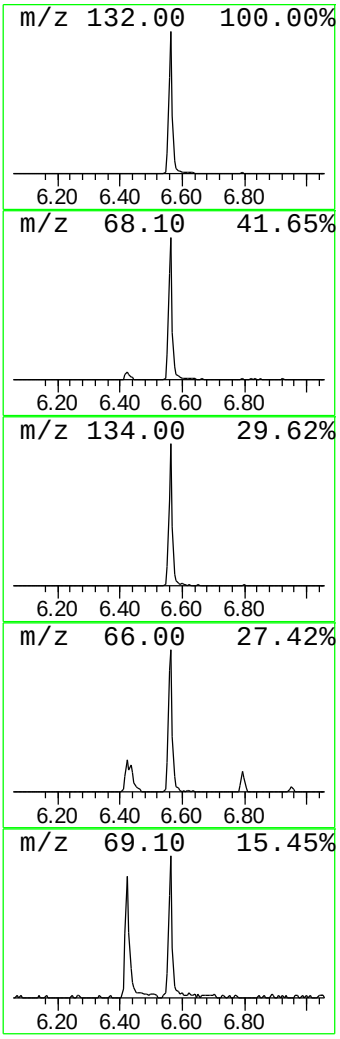
****

Peak Number 1 unknown6.56 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	5.66 ng	361112	1,4-Dichlorobenzene-d4	6.79

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	25
3	Xenon	132	Xe	007440-63-3	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

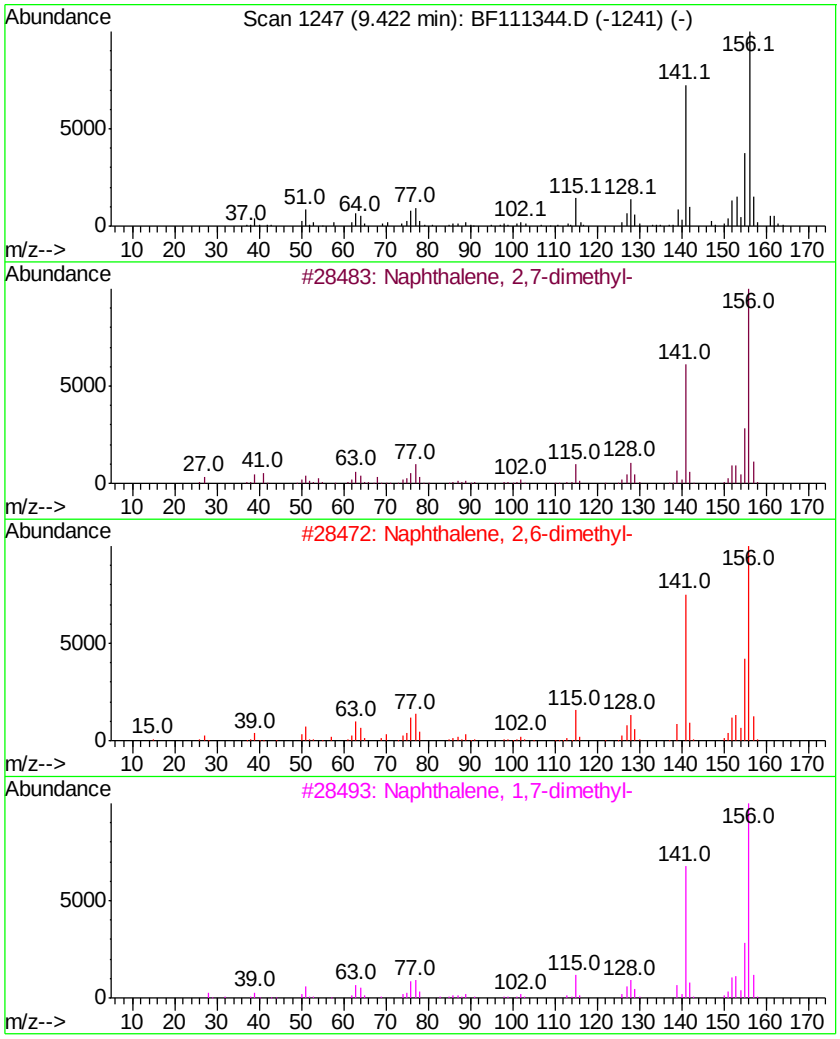
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

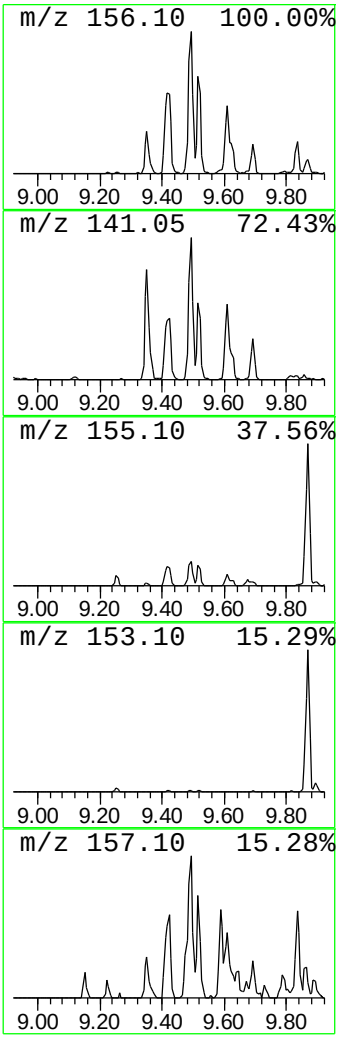
****

Peak Number 2 Naphthalene, 2,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	4.01 ng	347316	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

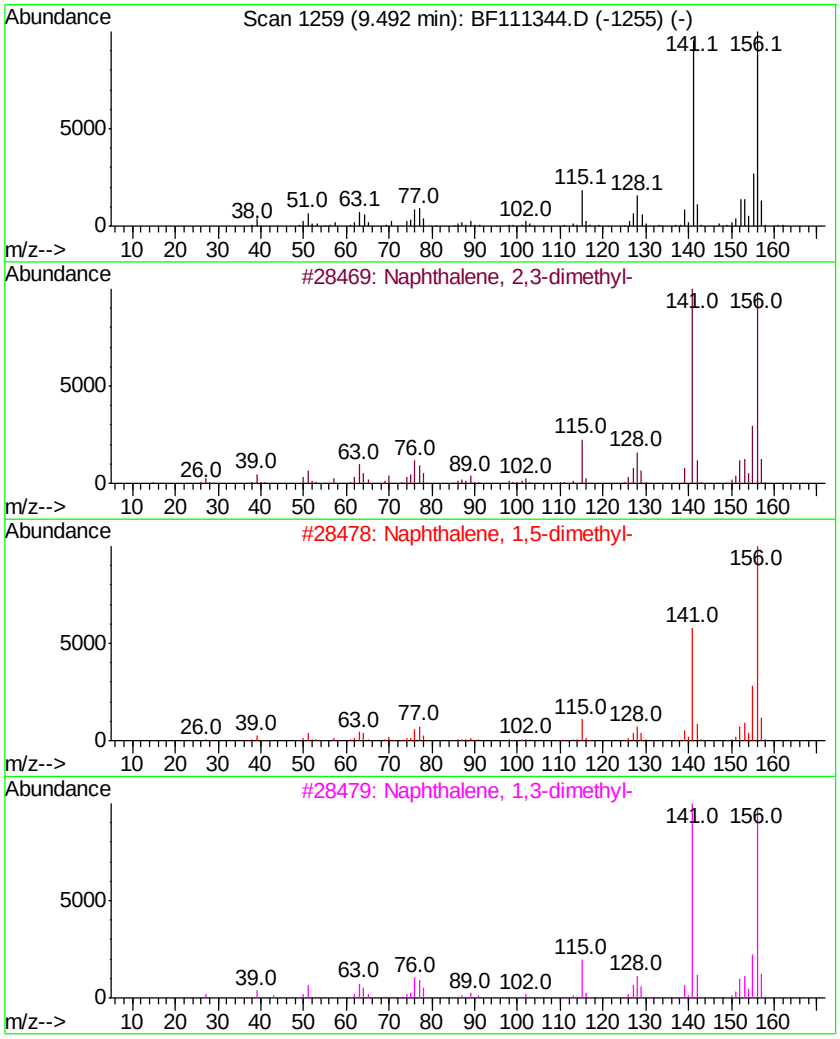
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

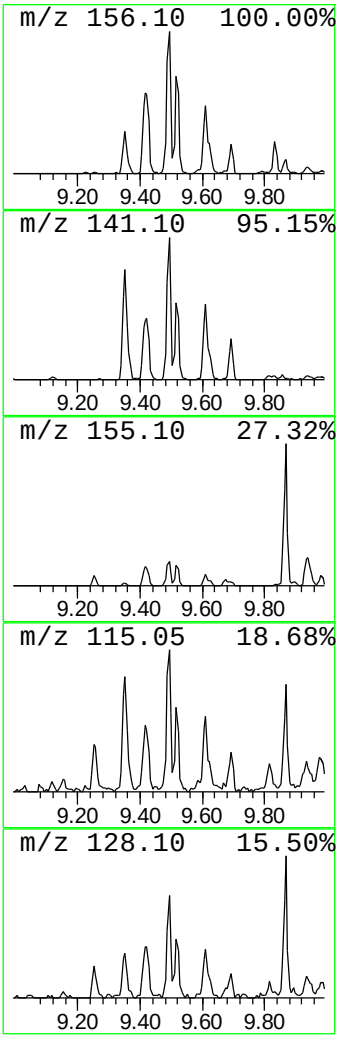
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	4.88 ng	421983	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

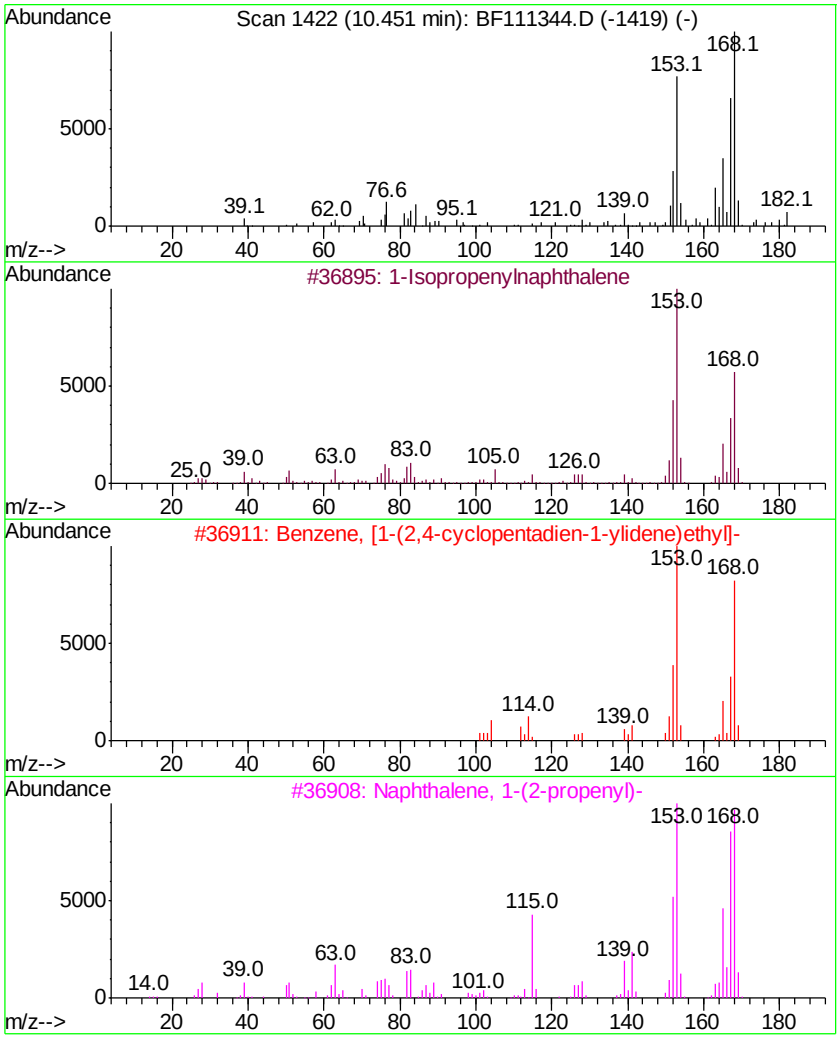
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

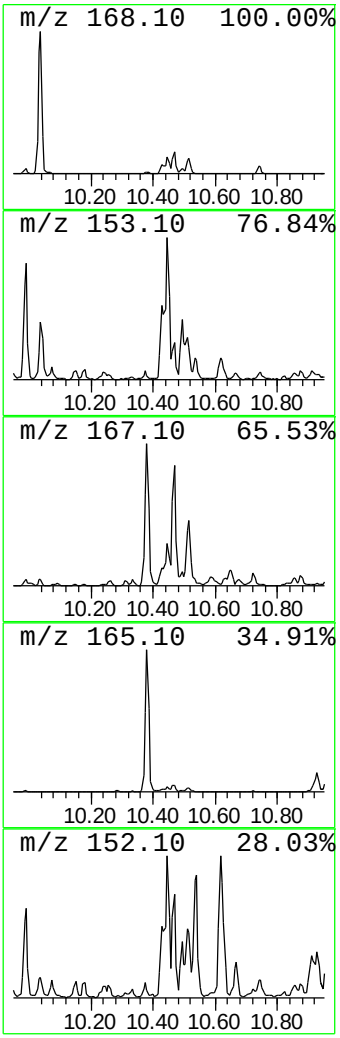
****

Peak Number 4 1-Isopropenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	5.52 ng	478044	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	90
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	59
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	53
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	53
5	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

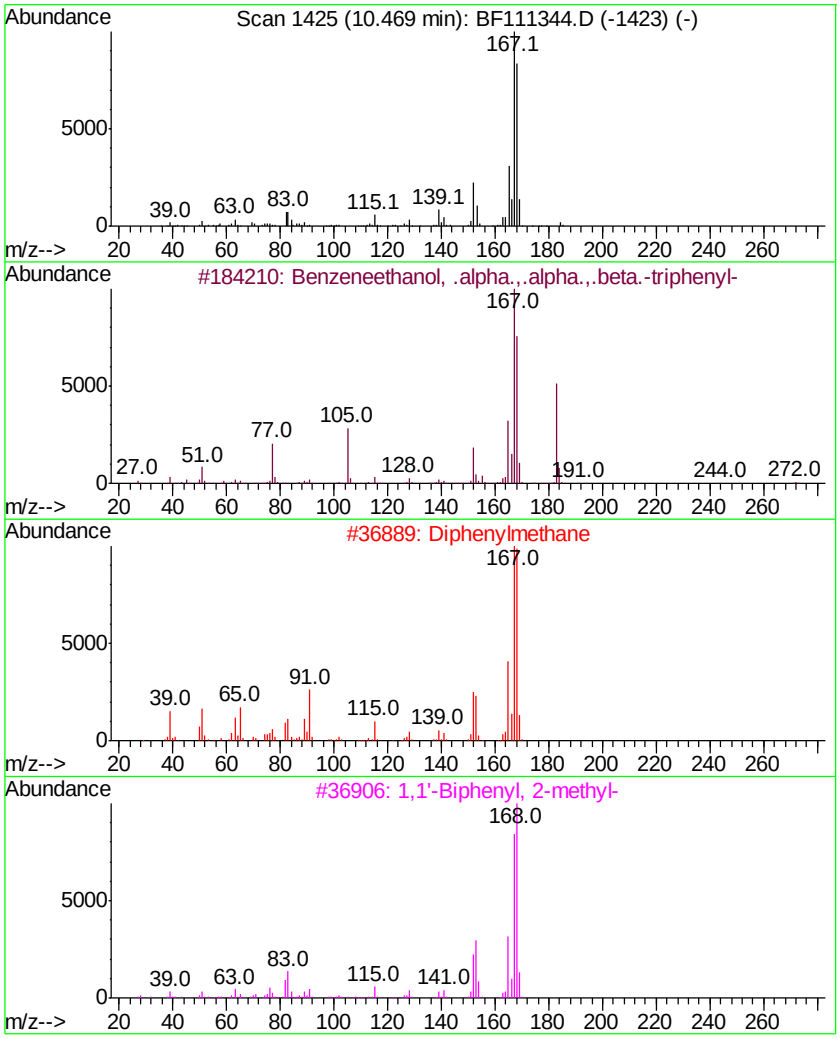
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

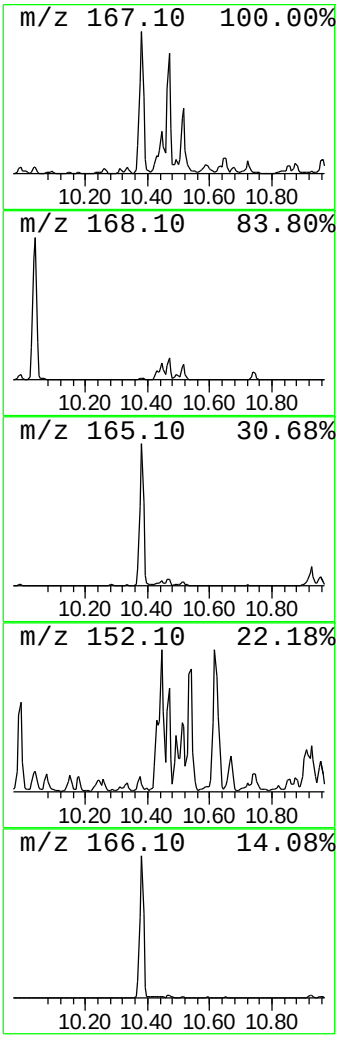
****

Peak Number 5 Benzeneethanol, .alpha.,.al... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.47	5.69 ng	492753	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanol, .alpha.,.alpha.,...	350	C26H22O	000981-24-8	90
2	Diphenylmethane	168	C13H12	000101-81-5	87
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	80
4	Nordiphenamid	225	C15H15NO	000954-21-2	64
5	1,1-Diphenyl-2-propanol	212	C15H16O	029338-49-6	64





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Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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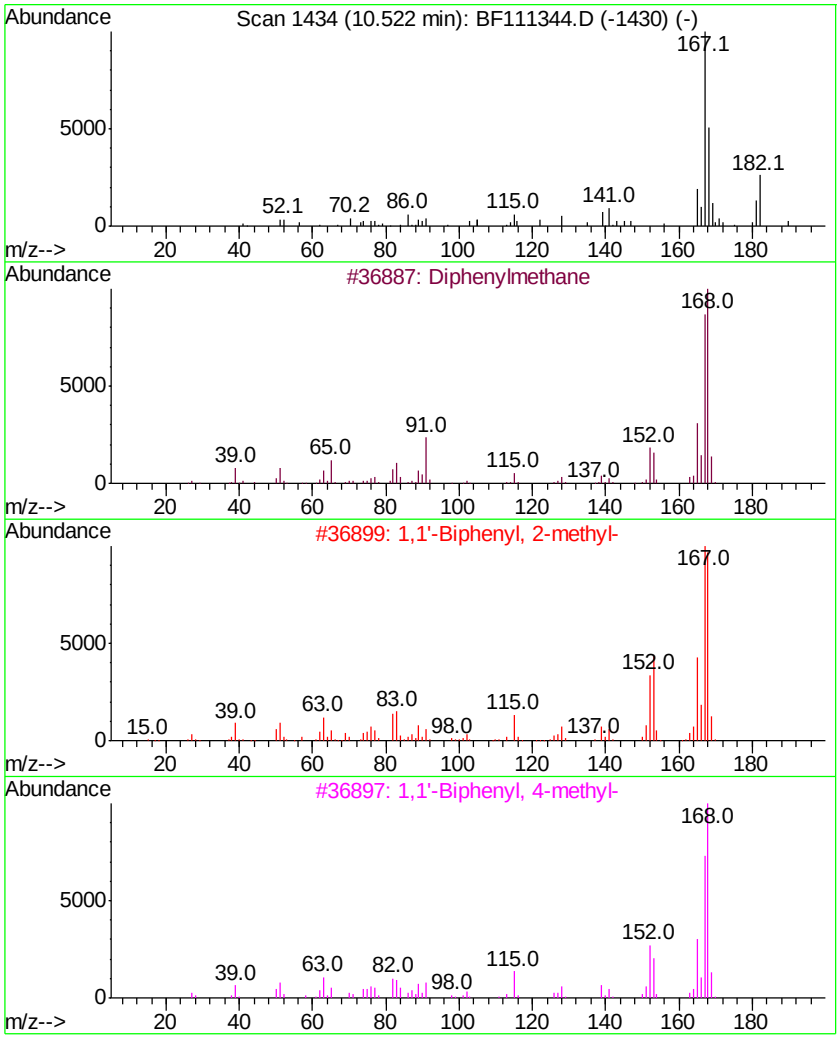
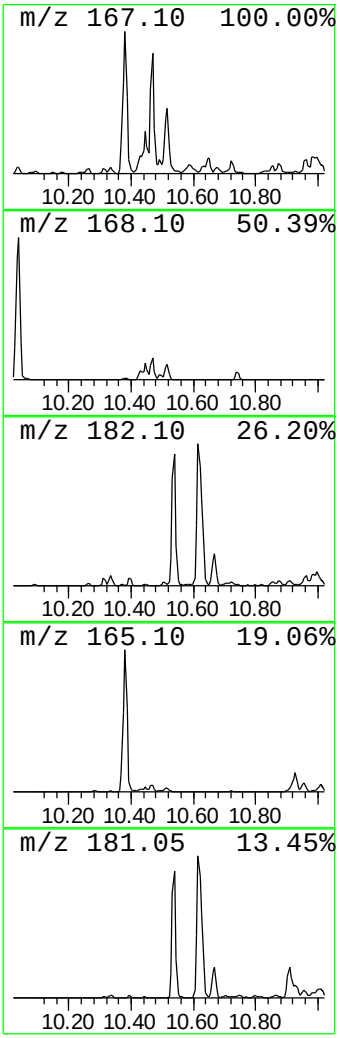
Peak Number 6 Diphenylmethane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.52	4.20 ng	363766	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	87
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	72
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	64
4	1,1-Diphenyl-2-propanol	212	C15H16O	029338-49-6	64
5	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	64





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Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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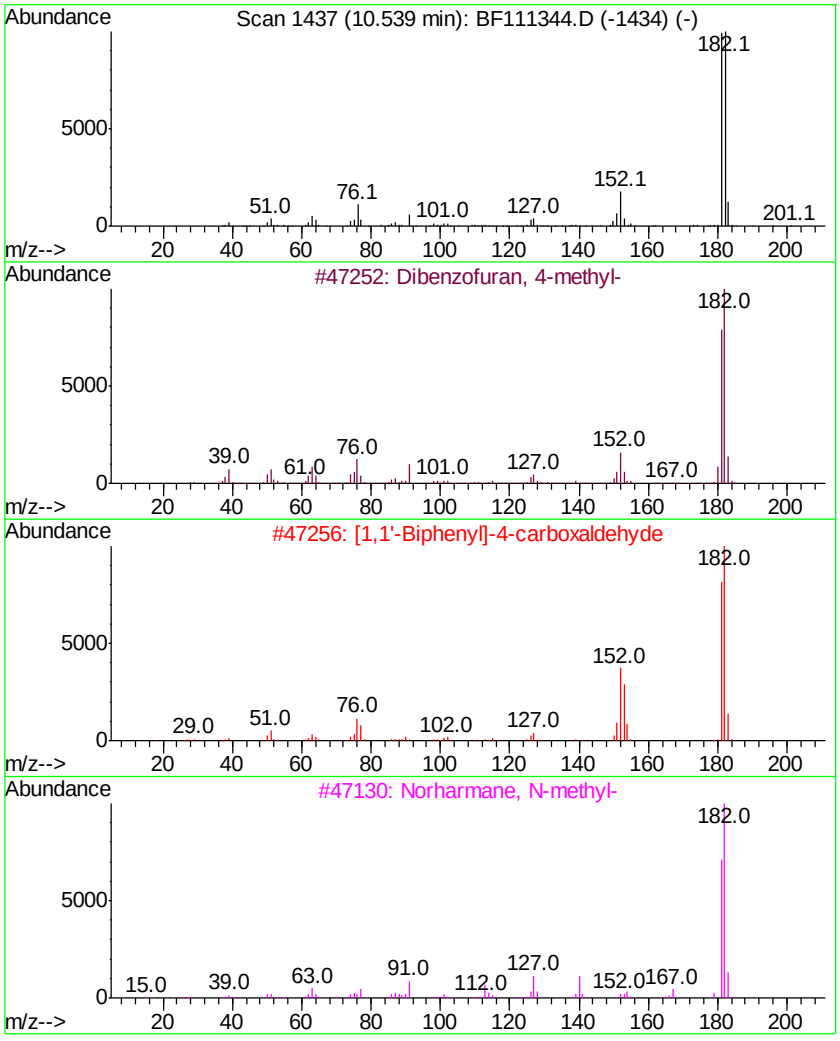
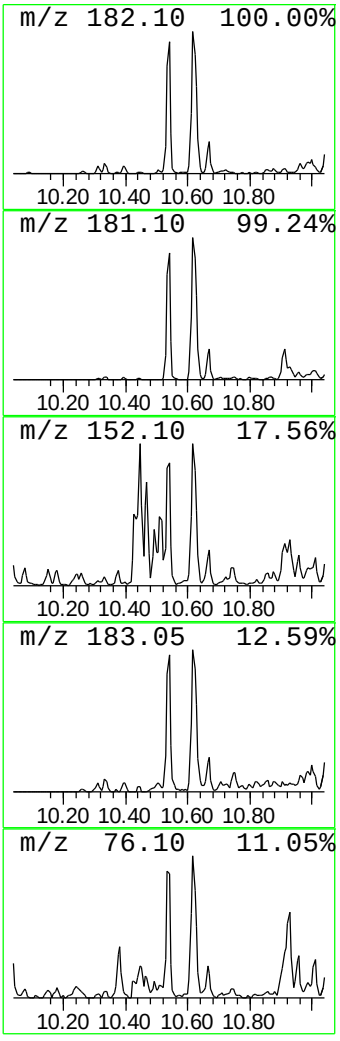
Peak Number 7 Dibenzofuran, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	7.72 ng	667894	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
3	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	72
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	64
5	3-(1-Naphthyl)acrylaldehyde	182	C13H10O	001504-73-0	64





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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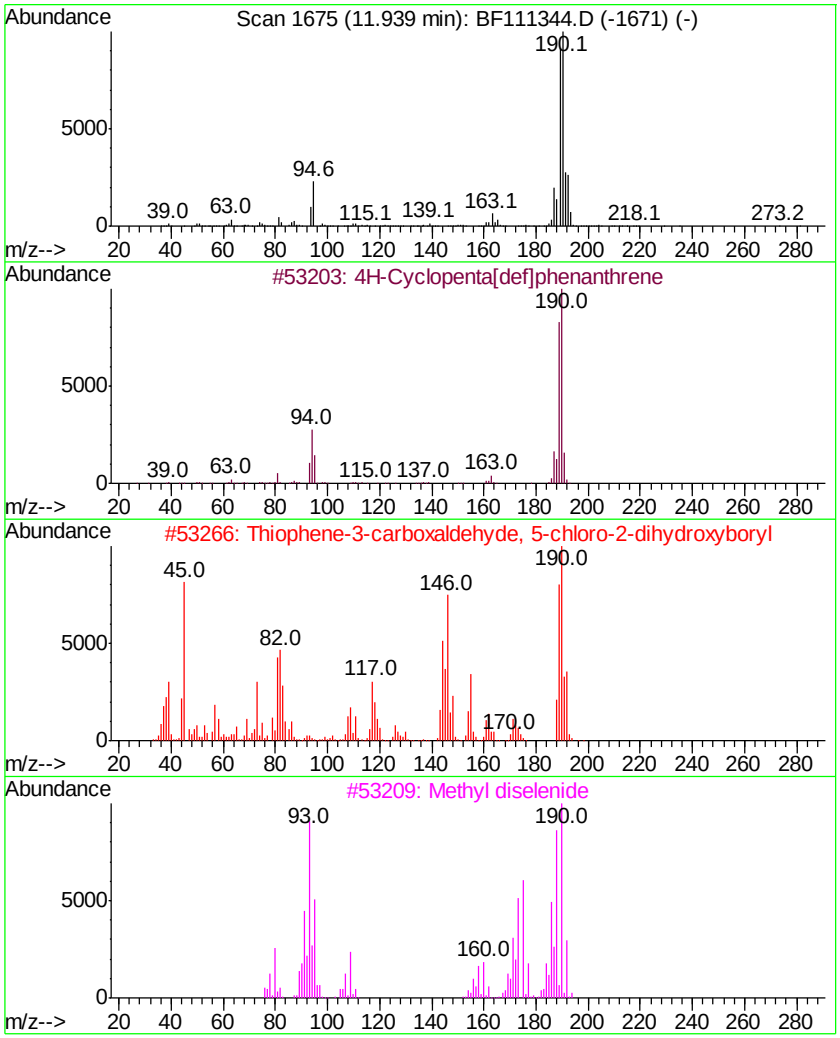
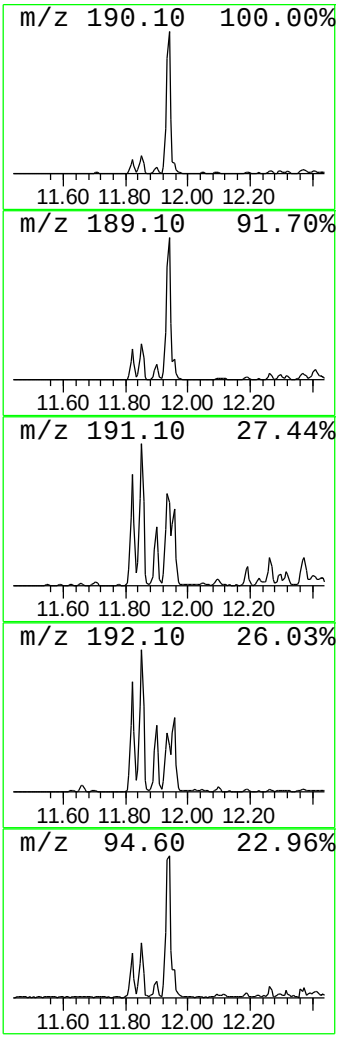
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	4.85 ng	5193400	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	23





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Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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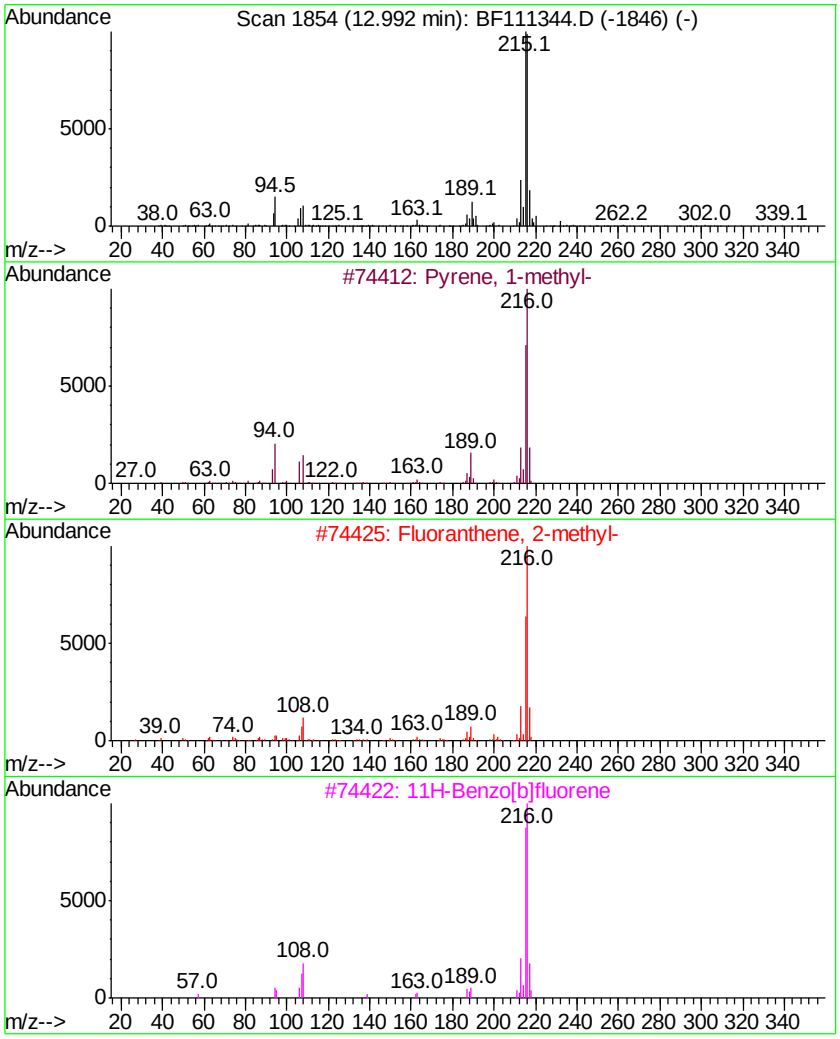
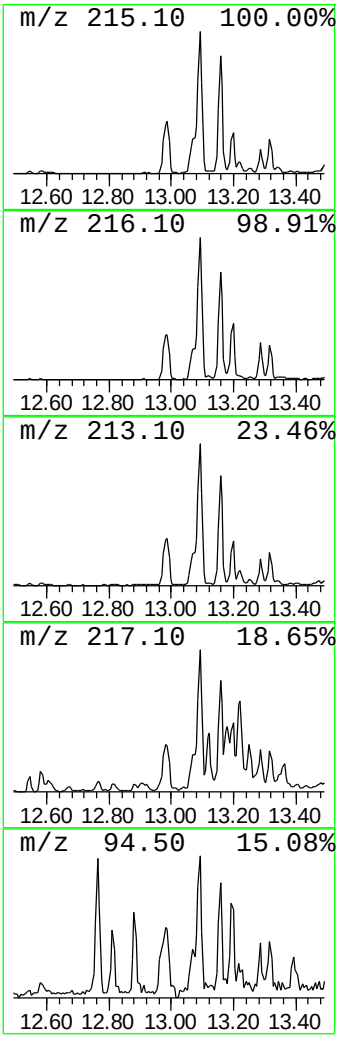
Peak Number 9 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	3.73 ng	2266220	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





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Misc :
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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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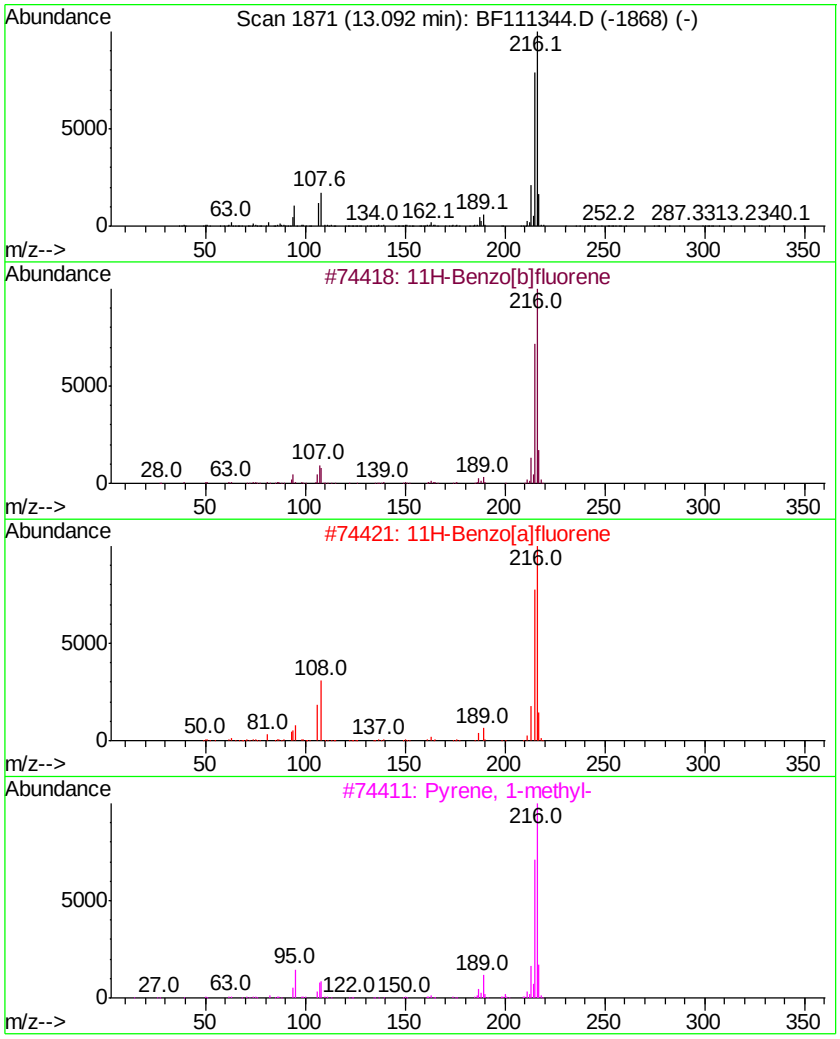
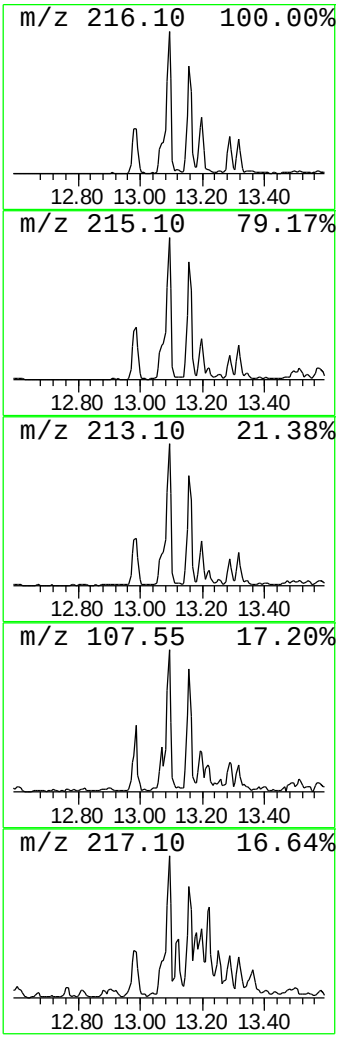
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	5.04 ng	3058950	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58





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Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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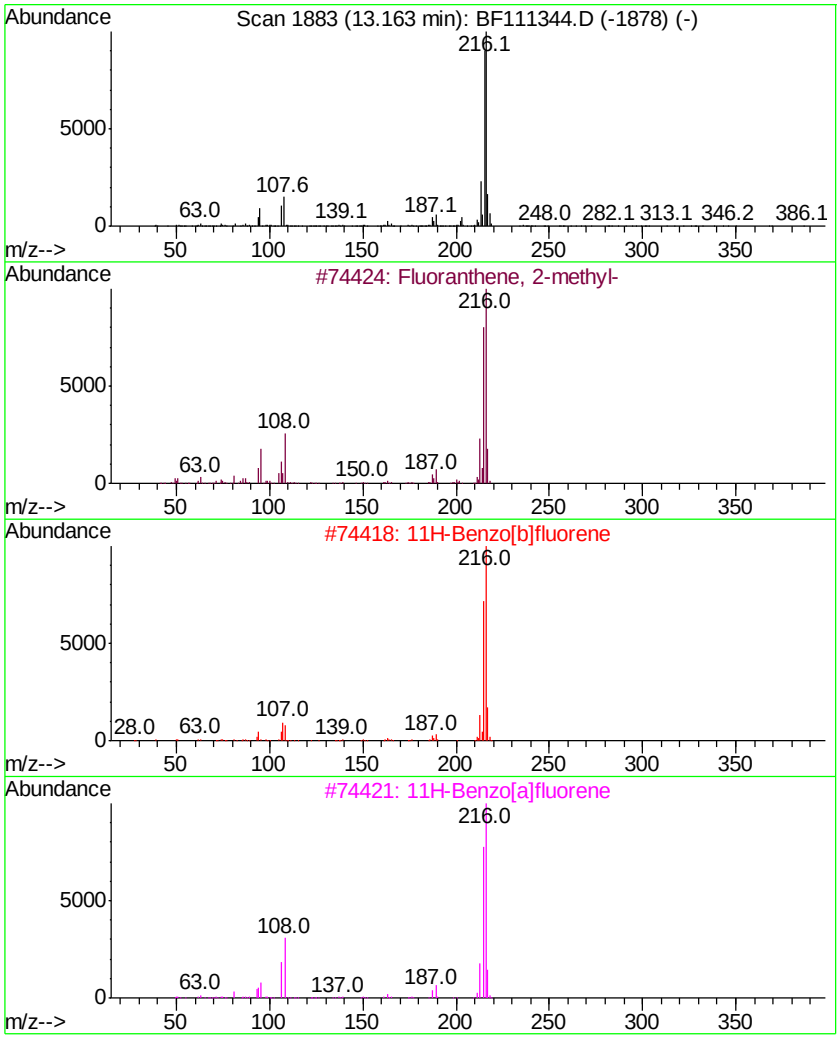
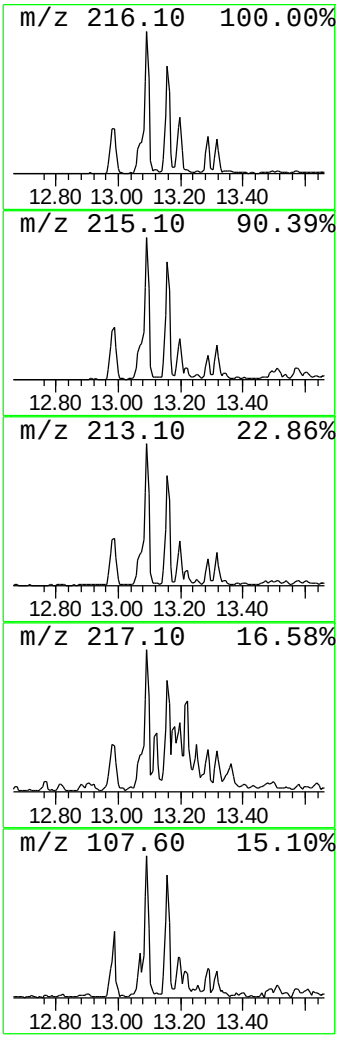
Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.17 ng	2533090	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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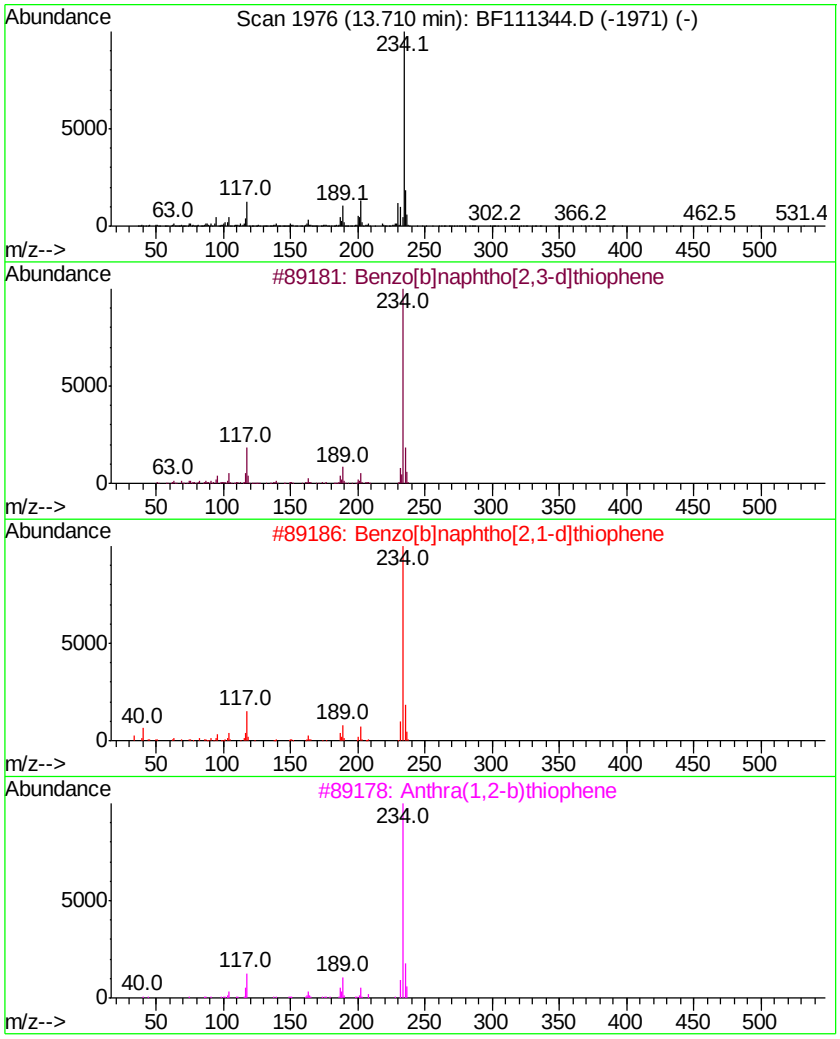
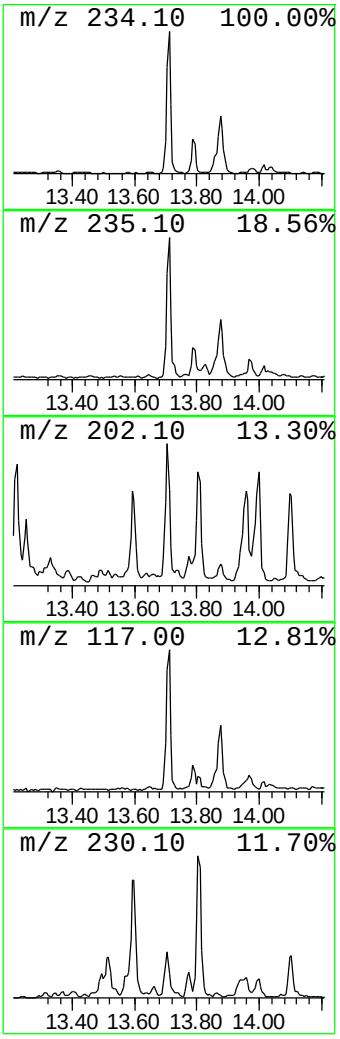
Peak Number 12 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	3.40 ng	2061290	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	87
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	72
5	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	68





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-9(0-2)

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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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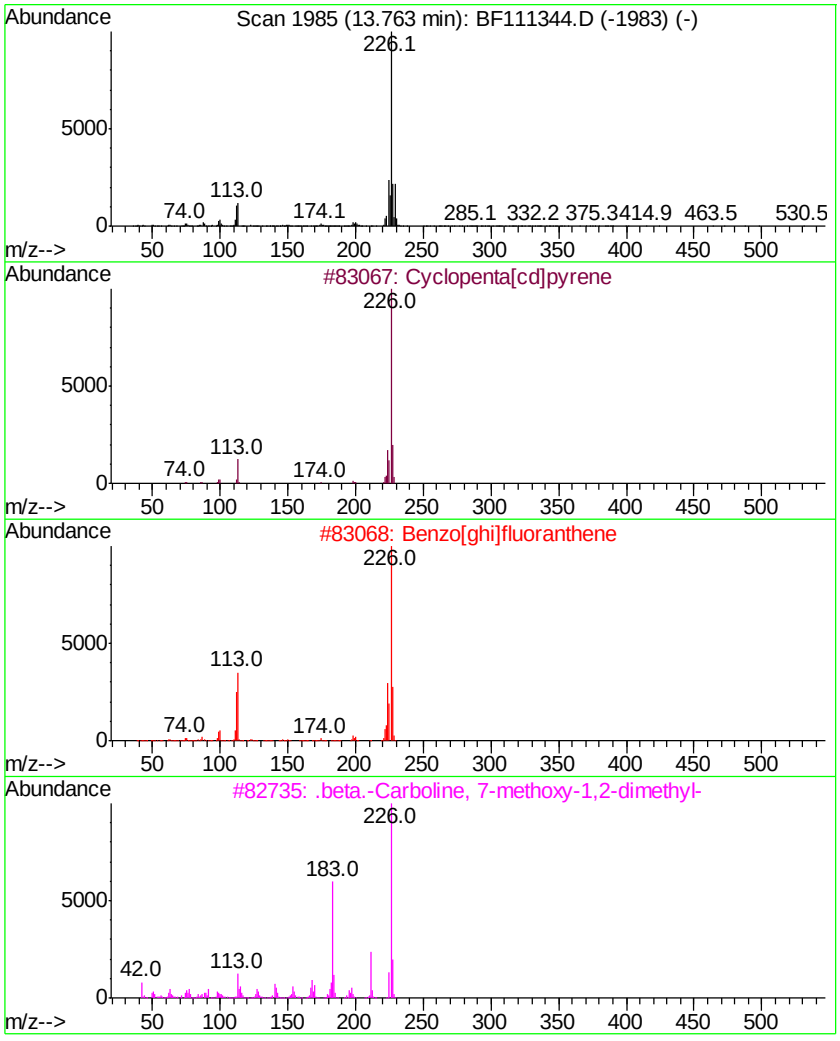
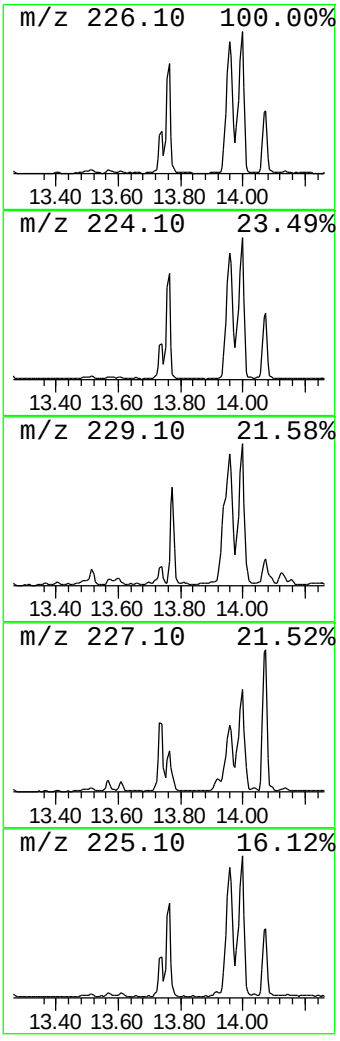
Peak Number 13 Cyclopenta[cd]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	3.80 ng	2307580	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	92
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	76
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	52
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	38
5	1,8-Diazacyclotetradecane-2,7-dione	226	C12H22N2O2	004266-66-4	37





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ClientSampleId : SB-9(0-2)

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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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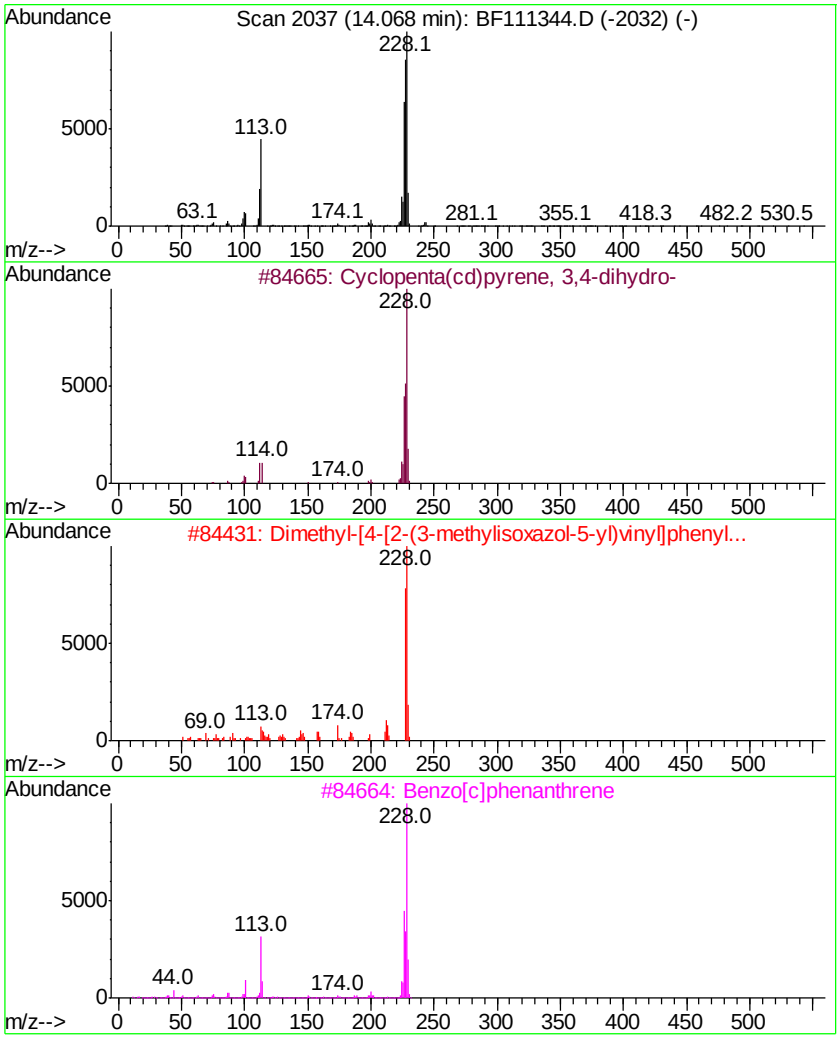
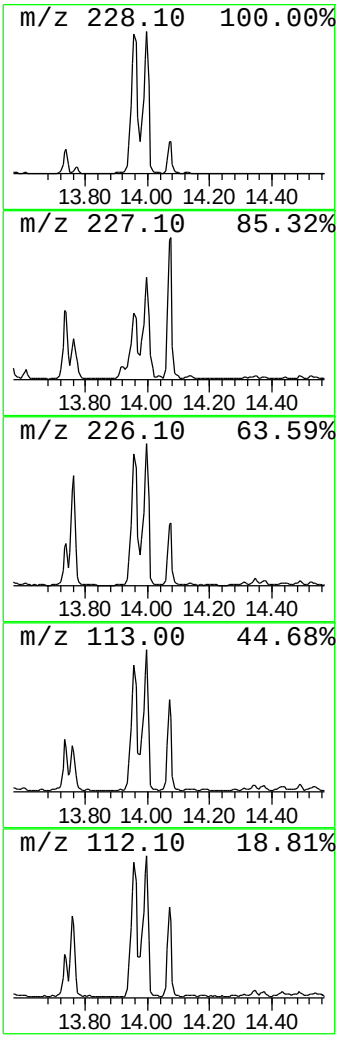
Peak Number 14 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	4.12 ng	2503260	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	50
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	47
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
4	1,3,5-Triazine-2(1H)-thione, 4-(...	227	C9H17N5S	023613-02-7	38
5	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	28





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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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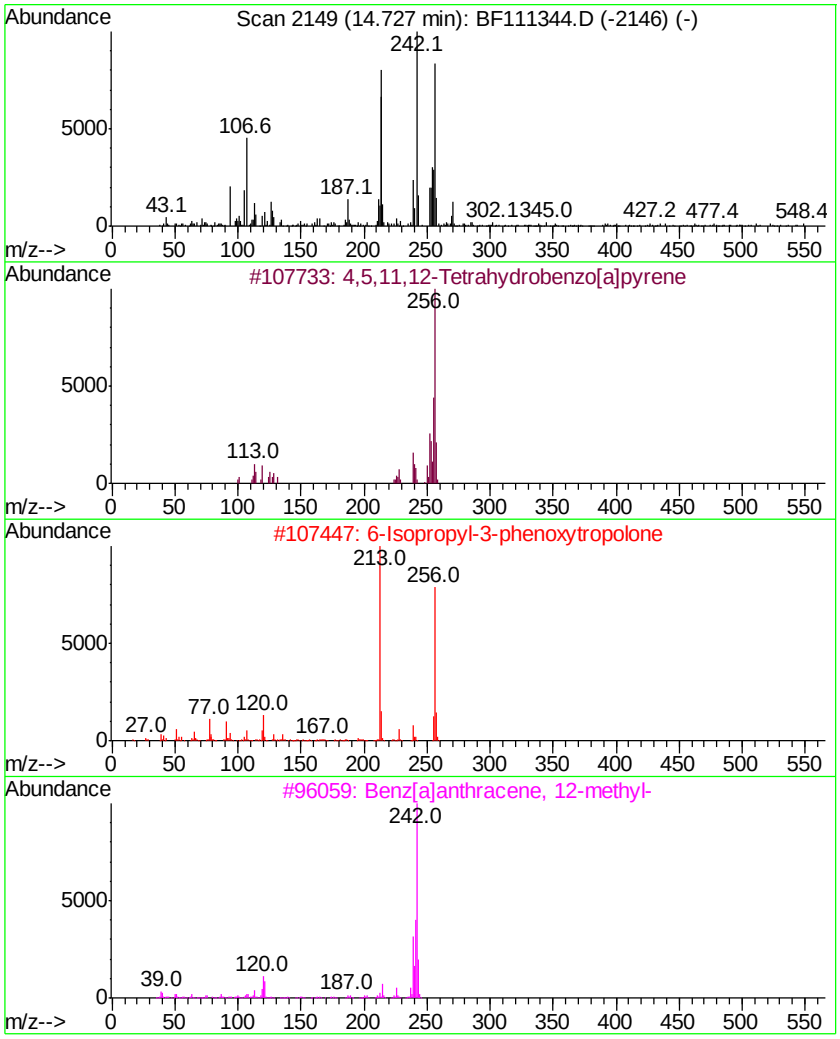
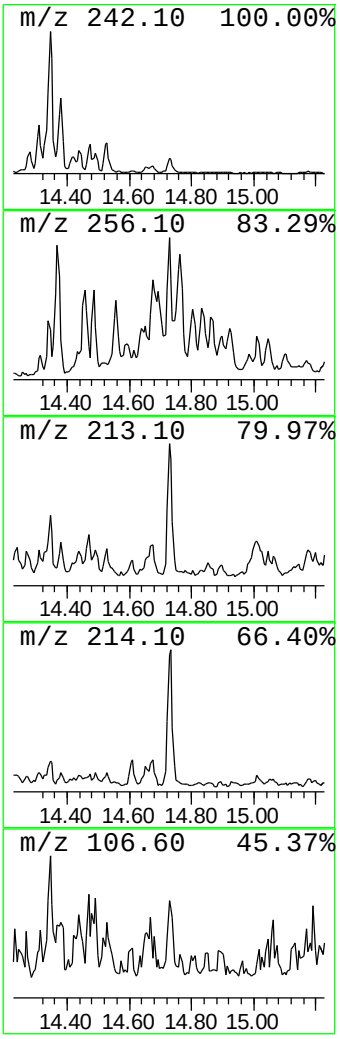
Peak Number 15 4,5,11,12-Tetrahydrobenzo[a... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	7.67 ng	380202	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	53
2	6-Isopropyl-3-phenoxytropolone	256	C16H16O3	002904-79-2	38
3	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	25
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	15
5	Tetracarbonyl-(diisopropylamino-...	325	C13H19FeNO5	1000287-87-1	15





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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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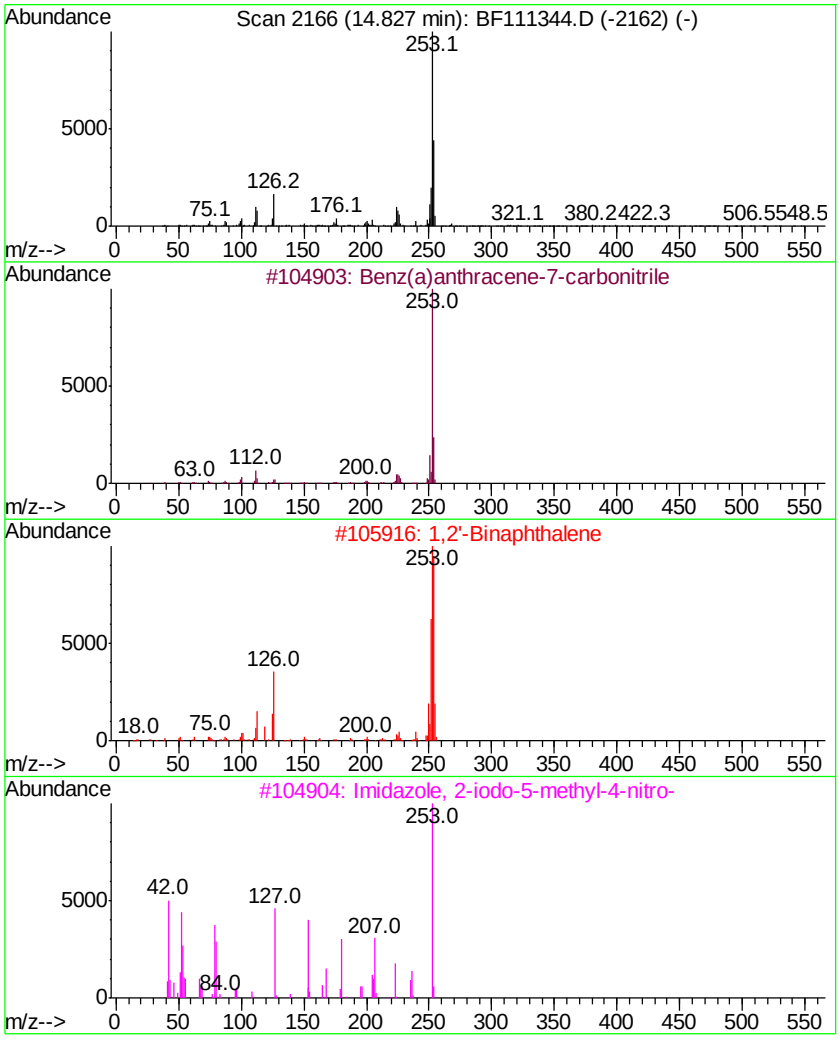
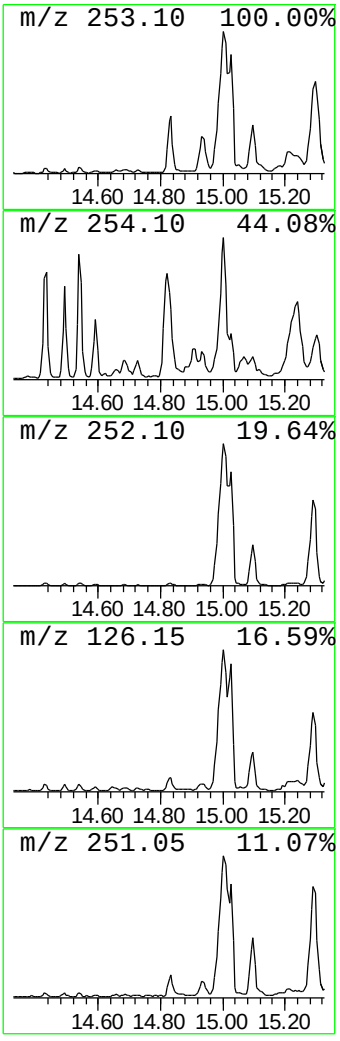
Peak Number 16 Benz(a)anthracene-7-carboni... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	20.25 ng	1003690	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	68
2	1,2'-Binaphthalene	254	C20H14	004325-74-0	50
3	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	46
4	Ethyl 4-(5-methyl-1,1-dioxido-4-...	373	C19H19NO5S	1000294-64-6	40
5	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	37





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Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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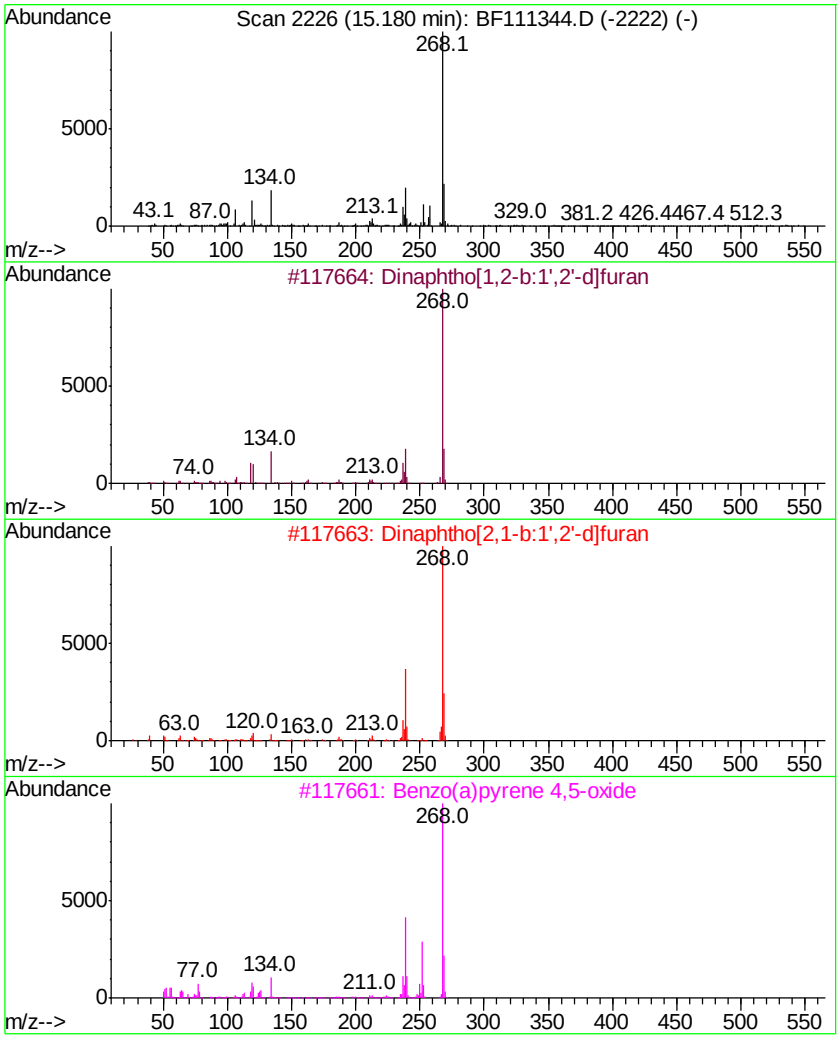
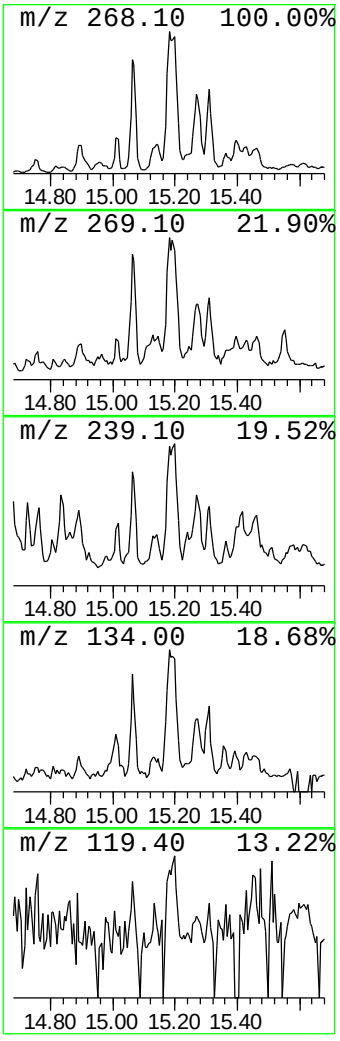
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	9.00 ng	446355	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	91
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	87
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	80
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	62
5	10-Hydroxy-5-methoxy-2-methyl-1,...	268	C16H12O4	084542-45-0	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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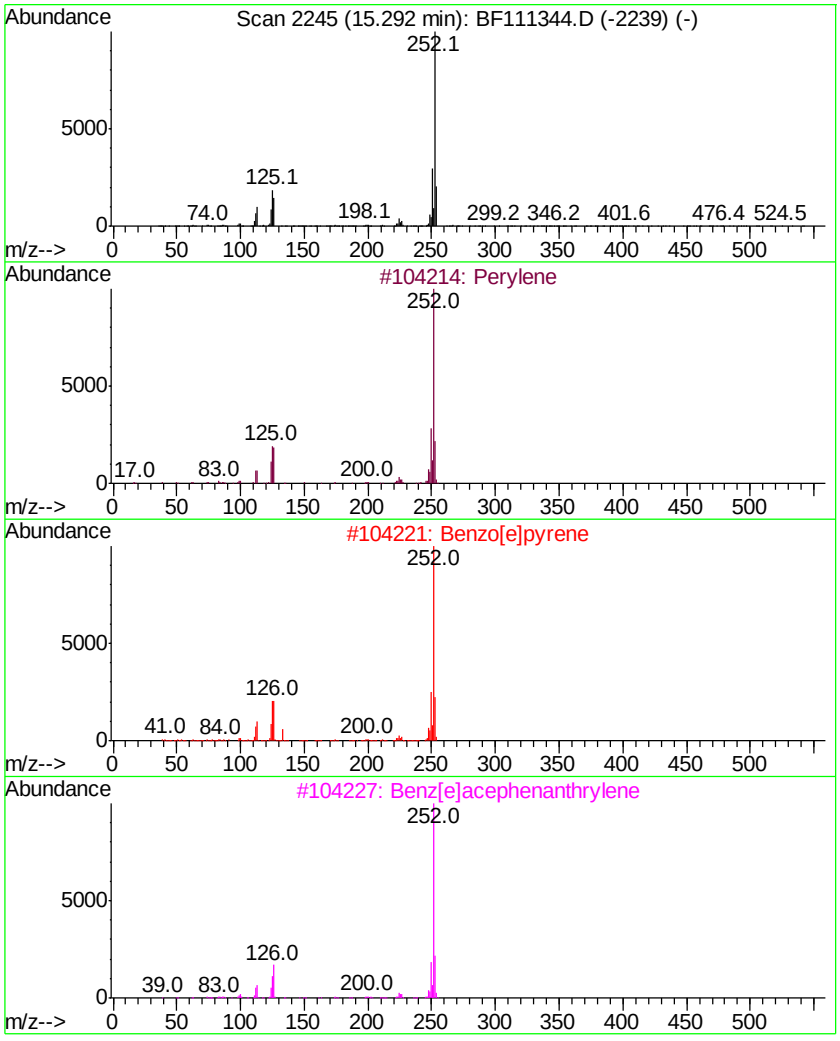
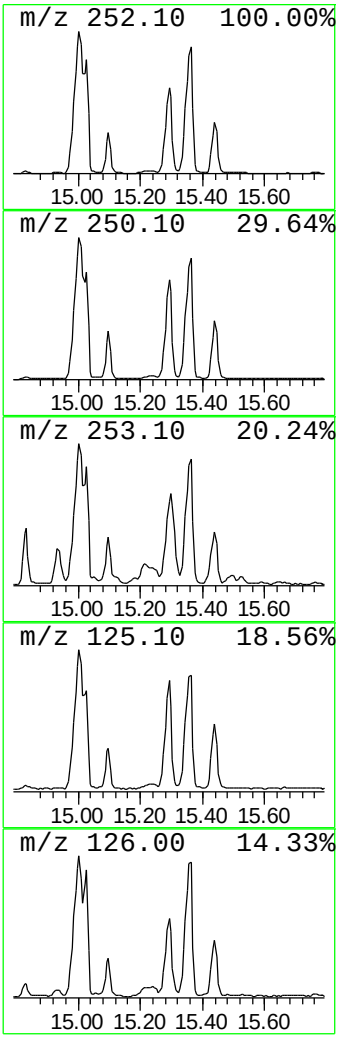
Peak Number 19 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.29	97.52 ng	4834510	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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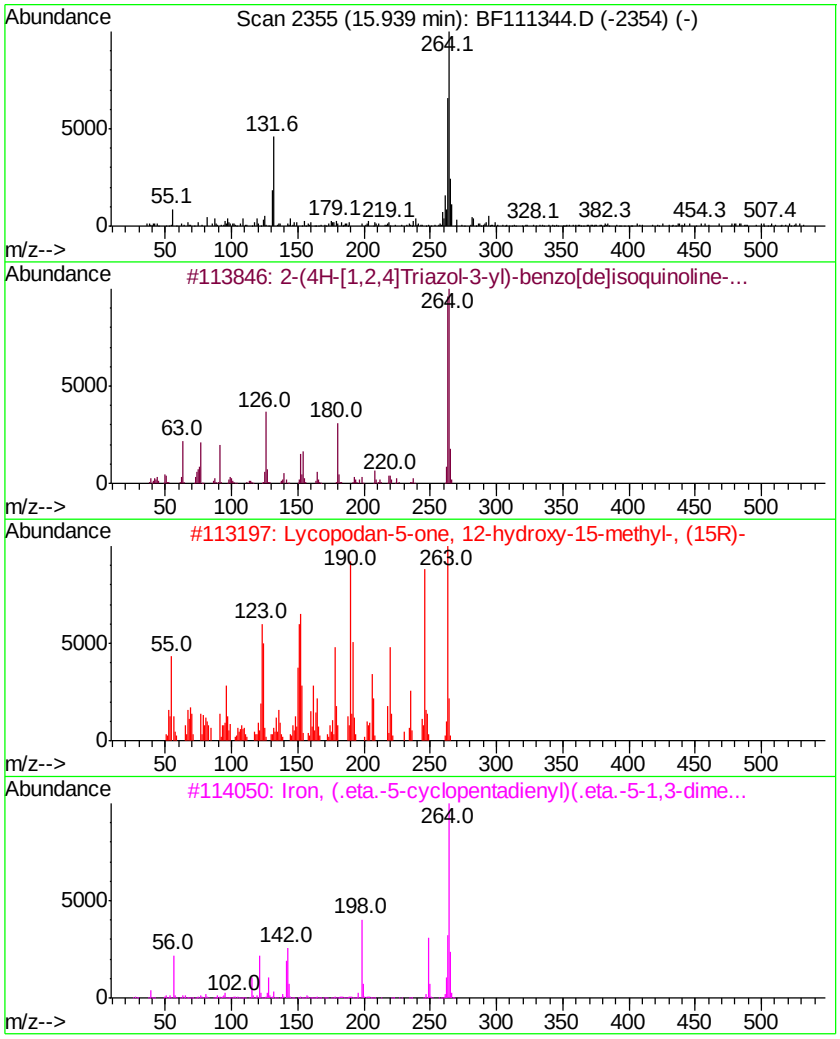
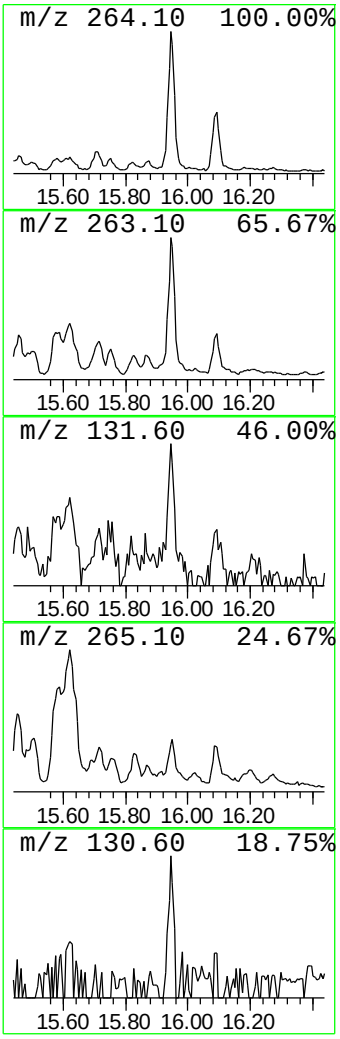
Peak Number 20 unknown15.94 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	8.10 ng	401545	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	42
2	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	38
3	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	32
4	2,5-Bis(4-hydroxyphenyl)pyrimidine	264	C16H12N2O2	159488-83-2	30
5	6-Oxo-5-phenyl-2,3,5,6-tetrahydr...	263	C16H13N3O	087365-22-8	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
Data File : BF111344.D
Acq On : 13 Dec 2018 1:40
Operator : JU/SJ
Sample : J6214-19 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-9(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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
unknown6.56	6.56	5.7	ng	361112	1	6.79	1275980	20.0
Naphthalene, 2,7-...	9.42	4.0	ng	347316	3	9.83	1731190	20.0
Naphthalene, 2,3-...	9.49	4.9	ng	421983	3	9.83	1731190	20.0
1-Isopropenylnaph...	10.45	5.5	ng	478044	3	9.83	1731190	20.0
Benzeneethanol, ...	10.47	5.7	ng	492753	3	9.83	1731190	20.0
Diphenylmethane	10.52	4.2	ng	363766	3	9.83	1731190	20.0
Dibenzofuran, 4-m...	10.54	7.7	ng	667894	3	9.83	1731190	20.0
4H-Cyclopenta[def...	11.94	4.8	ng	5193400	4	11.32	21432400	20.0
Pyrene, 1-methyl-	12.99	3.7	ng	2266220	5	13.97	12142400	20.0
11H-Benzo[b]fluorene	13.09	5.0	ng	3058950	5	13.97	12142400	20.0
Fluoranthene, 2-m...	13.16	4.2	ng	2533090	5	13.97	12142400	20.0
Benzo[b]naphtho[2...	13.71	3.4	ng	2061290	5	13.97	12142400	20.0
Cyclopenta[cd]pyrene	13.76	3.8	ng	2307580	5	13.97	12142400	20.0
Cyclopenta(cd)pyr...	14.07	4.1	ng	2503260	5	13.97	12142400	20.0
4,5,11,12-Tetrahy...	14.73	7.7	ng	380202	6	15.41	991460	20.0
Benz(a)anthracene...	14.83	20.3	ng	1003690	6	15.41	991460	20.0
Dinaphtho[1,2-b:1...	15.18	9.0	ng	446355	6	15.41	991460	20.0
Perylene	15.29	97.5	ng	4834510	6	15.41	991460	20.0
unknown15.94	15.94	8.1	ng	401545	6	15.41	991460	20.0