LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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	6.810	800	803	807	rBV	1092457	1014390	9.01%	0.557%
2	7.075	844	848	856	rBV	749232	663160	5.89%	0.364%
3	8.098	1017	1022	1023	rBV	1531755	1389033	12.34%	0.762%
4	8.122	1023	1026	1029	rVV	7203457	6661064	59.19%	3.656%
5	8.810	1139	1143	1147	rBV	4789952	4386455	38.98%	2.407%
6	8.910	1154	1160	1168	rVB	3977858	3610840	32.08%	1.982%
7	9.269	1215	1221	1228	rBV	1168664	1143986	10.16%	0.628%
8	9.369	1236	1238	1244	rVB2	532788	687285	6.11%	0.377%
9	9.439	1244	1250	1253	rBV	1483140	1933929	17.18%	1.061%
10	9.510	1258	1262	1265	rVV	2318244	2437103	21.65%	1.337%
11	9.539	1265	1267	1270	rVV2	1572202	1373630	12.21%	0.754%
12	9.575	1270	1273	1277	rVB	1137957	943484	8.38%	0.518%
13	9.628	1279	1282	1291	rVB	1215878	1456189	12.94%	0.799%
14	9.716	1292	1297	1300	rBV	4579142	4436471	39.42%	2.435%
15	9.833	1314	1317	1318	rBV	607549	638502	5.67%	0.350%
16	9.851	1318	1320	1323	rVV	2080937	1606183	14.27%	0.881%
17	9.886	1323	1326	1329	rVV2	653474	684413	6.08%	0.376%
18	9.957	1334	1338	1342	rBV2	470109	604897	5.37%	0.332%
19	10.057	1347	1355	1358	rVV2	1042836	1462461	12.99%	0.803%
20	10.092	1358	1361	1364	rVV	627931	564929	5.02%	0.310%
21	10.169	1369	1374	1377	rVV2	650263	955829	8.49%	0.525%
22	10.251	1385	1388	1391	rVV3	445865	671962	5.97%	0.369%
23	10.304	1395	1397	1400	rVV	950039	745121	6.62%	0.409%
24	10.369	1406	1408	1410	rVV	781820	627736	5.58%	0.344%
25	10.398	1410	1413	1419	rVV	3179101	3398972	30.20%	1.865%
26	10.504	1429	1431	1436	rVV2	549380	720677	6.40%	0.395%
27	10.557	1436	1440	1442	rVV2	519133	730028	6.49%	0.401%
28	10.622	1448	1451	1452	rVV	832715	753298	6.69%	0.413%
29	10.639	1452	1454	1458	rVV	666481	688646	6.12%	0.378%
30	10.763	1471	1475	1480	rVB3	523584	545954	4.85%	0.300%
31	10.945	1502	1506	1509	rVV	1141841	1618109	14.38%	0.888%
32	10.975	1509	1511	1514	rVV	959359	891307	7.92%	0.489%
33	11.028	1517	1520	1524	rVV2	836867	1016261	9.03%	0.558%
34	11.145	1538	1540	1544	rVV2	730397	761558	6.77%	0.418%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.233	1551	1555	1560	rVB	3639242	3625995	32.22%	1.990%
36	11.339	1569	1573	1574	rBV	1424601	1405718	12.49%	0.771%
37	11.375	1574	1579	1581	rVV	9263180	11254314	100.00%	6.176%
38	11.416	1581	1586	1589	rVV	3789183	3408102	30.28%	1.870%
39	11.492	1594	1599	1601	rVV2	486380	557900	4.96%	0.306%
40	11.633	1620	1623	1625	rVV	770904	771903	6.86%	0.424%
41	11.669	1625	1629	1633	rVV	2194510	2123513	18.87%	1.165%
42	11.751	1640	1643	1647	rVB	1636140	1853597	16.47%	1.017%
43	11.845	1652	1659	1661	rVV2	3018823	3618367	32.15%	1.986%
44	11.869	1661	1663	1668	rVB	3670498	3274162	29.09%	1.797%
45	11.916	1668	1671	1674	rBV	1526337	1450668	12.89%	0.796%
46	11.957	1674	1678	1680	rVV	3944970	4882260	43.38%	2.679%
47	11.975	1680	1681	1686	rVB	2457945	1721825	15.30%	0.945%
48	12.075	1695	1698	1700	rBV	685480	553740	4.92%	0.304%
49	12.133	1702	1708	1710	rBV	1986082	1957901	17.40%	1.074%
50	12.169	1710	1714	1719	rVB3	925900	1438373	12.78%	0.789%
51	12.227	1719	1724	1728	rBV3	553327	1125917	10.00%	0.618%
52	12.269	1728	1731	1732	rVV	696288	728726	6.48%	0.400%
53	12.316	1736	1739	1741	rVV	1021535	1010293	8.98%	0.554%
54	12.339	1741	1743	1746	rVB	950450	770003	6.84%	0.423%
55	12.392	1746	1752	1754	rBV	2418019	2877816	25.57%	1.579%
56	12.427	1754	1758	1760	rVV2	1424883	1938106	17.22%	1.064%
57	12.445	1760	1761	1764	rVB	827175	585171	5.20%	0.321%
58	12.480	1764	1767	1771	rBV2	757534	1229183	10.92%	0.675%
59	12.557	1776	1780	1783	rBV	6135123	6432568	57.16%	3.530%
60	12.598	1783	1787	1789	rVV	592792	575859	5.12%	0.316%
61	12.651	1792	1796	1800	rVV	1932022	2000847	17.78%	1.098%
62	12.704	1802	1805	1813	rVB2	1733392	2206309	19.60%	1.211%
63	12.792	1813	1820	1824	rBV	7396676	9606812	85.36%	5.272%
64	12.839	1824	1828	1831	rVB2	826346	942134	8.37%	0.517%
65	12.939	1843	1845	1850	rVB5	509282	544790	4.84%	0.299%
66	12.998	1851	1855	1862	rBV2	1084790	1724479	15.32%	0.946%
67	13.051	1862	1864	1867	rBV	726469	731314	6.50%	0.401%
68	13.086	1867	1870	1871	rVV2	1017923	1079200	9.59%	0.592%
69	13.110	1871	1874	1877	rVB	2313116	2286099	20.31%	1.255%
70	13.151	1877	1881	1883	rBV2	609609	773907	6.88%	0.425%
71	13.174	1883	1885	1888	rVB	1561462	1278822	11.36%	0.702%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.216	1888	1892	1896	rBV2	1552996	1623054	14.42%	0.891%
73	13.274	1899	1902	1905	rBV2	814152	956894	8.50%	0.525%
74	13.304	1905	1907	1910	rVV	1203064	1142922	10.16%	0.627%
75	13.339	1910	1913	1916	rVB	1452414	1455649	12.93%	0.799%
76	13.727	1973	1979	1982	rBV	2004289	2539408	22.56%	1.394%
77	13.751	1982	1983	1986	rVB	914550	696505	6.19%	0.382%
78	13.780	1986	1988	1990	rBV	730058	592051	5.26%	0.325%
79	13.892	2005	2007	2014	rVB	717204	881808	7.84%	0.484%
80	13.969	2016	2020	2024	rBV2	4235331	6197972	55.07%	3.401%
81	14.004	2024	2026	2033	rVB	3465525	3546631	31.51%	1.946%
82	14.204	2057	2060	2063	rBV4	328661	549652	4.88%	0.302%
83	14.233	2063	2065	2069	rVV	610027	590246	5.24%	0.324%
84	14.363	2083	2087	2090	rVV	1526492	1947883	17.31%	1.069%
85	14.398	2090	2093	2095	rVV	935935	906219	8.05%	0.497%
86	14.439	2096	2100	2102	rVV3	618521	1006995	8.95%	0.553%
87	14.492	2106	2109	2110	rVV	1014886	989438	8.79%	0.543%
88	14.510	2110	2112	2116	rVV2	940008	1125709	10.00%	0.618%
89	14.557	2117	2120	2123	rVV3	709592	800751	7.12%	0.439%
90	15.015	2192	2198	2204	rBV	2047261	4334122	38.51%	2.379%
91	15.063	2204	2206	2211	rVV	571353	657286	5.84%	0.361%
92	15.116	2212	2215	2219	rVB	745362	832414	7.40%	0.457%
93	15.310	2243	2248	2253	rVB	1701974	2246008	19.96%	1.233%
94	15.374	2253	2259	2263	rBV	2745753	3581309	31.82%	1.965%
95	15.427	2264	2268	2271	rVV	945608	1358770	12.07%	0.746%
96	15.463	2271	2274	2280	rVB2	617174	920349	8.18%	0.505%
97	15.986	2359	2363	2367	rVB	368879	538274	4.78%	0.295%
98	16.874	2508	2514	2521	rVB2	891514	1756141	15.60%	0.964%
99	17.309	2582	2588	2597	rVB	725353	1592278	14.15%	0.874%
100	17.539	2622	2627	2638	rVB	312152	682616	6.07%	0.375%

Sum of corrected areas: 182219909

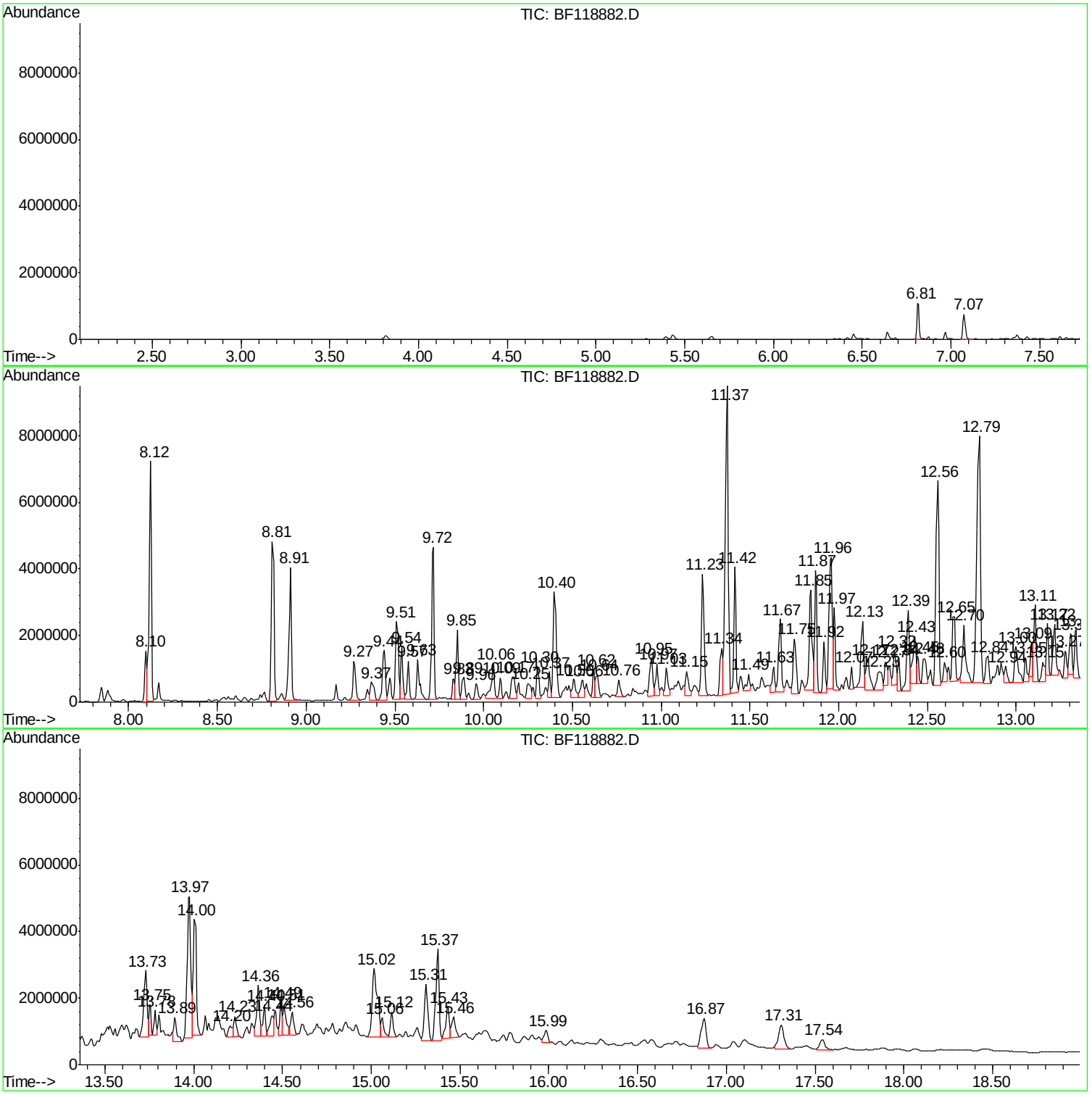
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

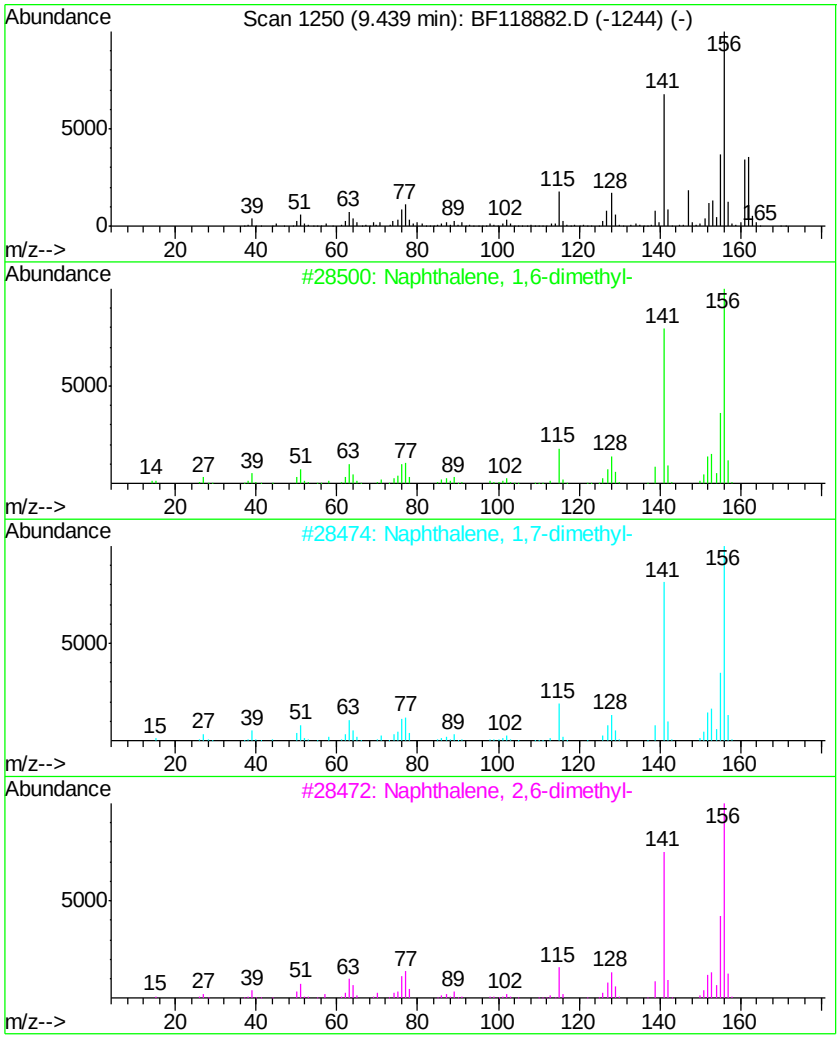
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

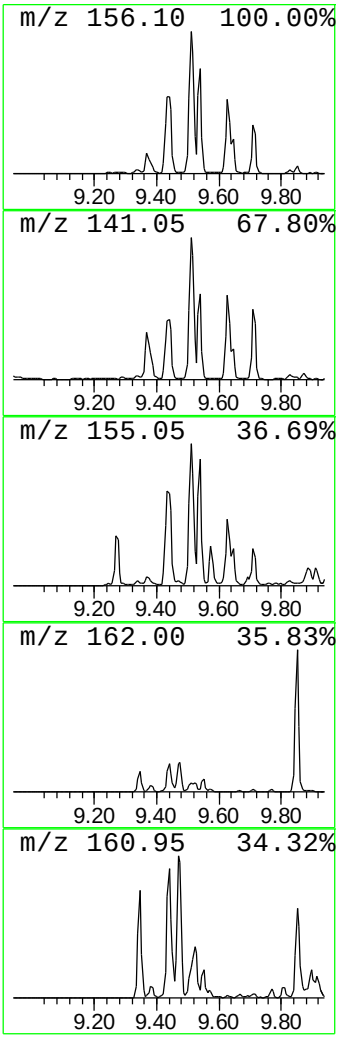
****

Peak Number 1 Naphthalene, 1,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	24.08 ng	1933930	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

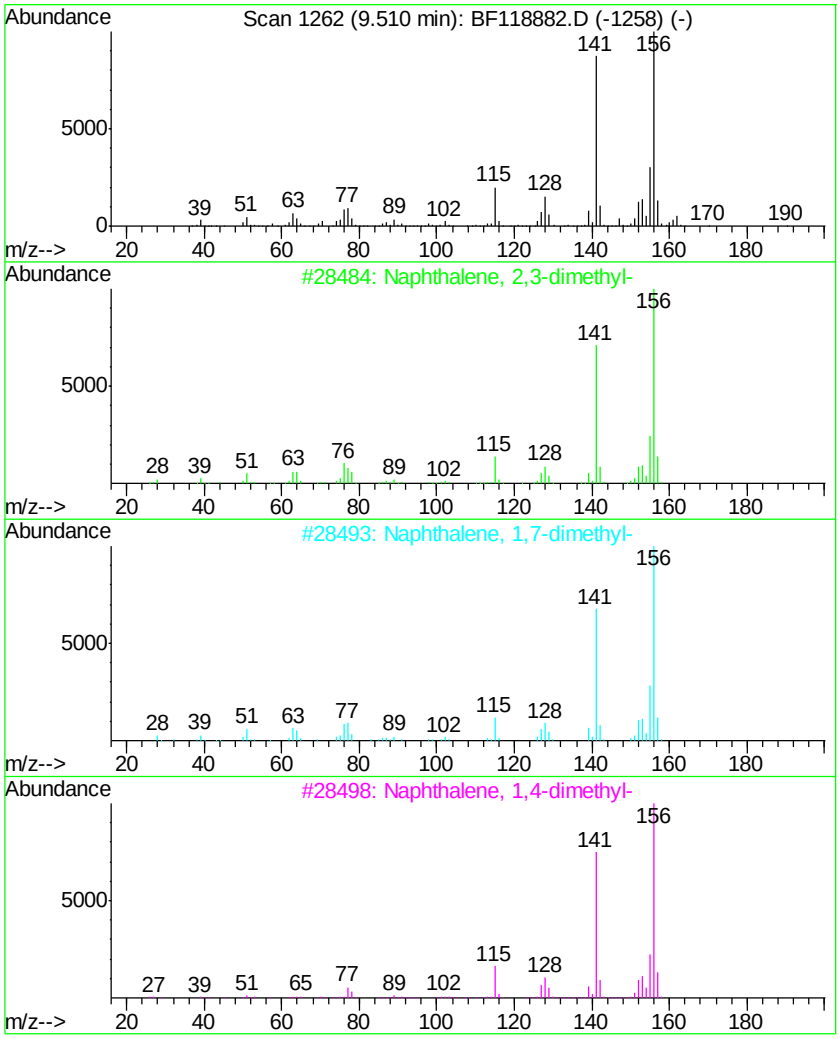
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

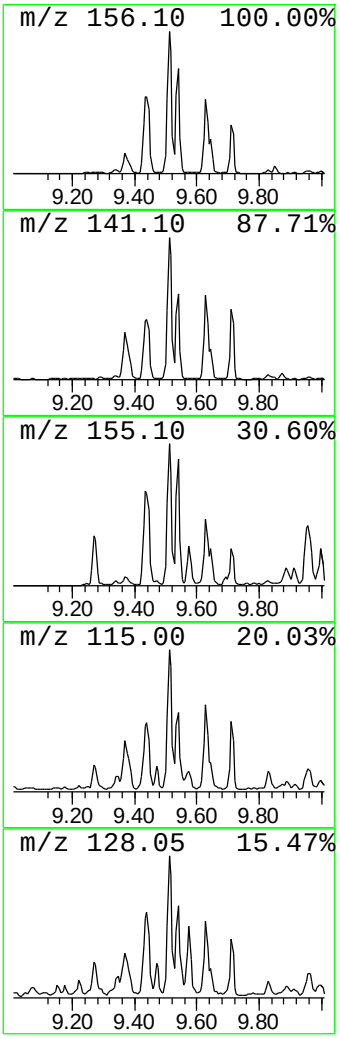
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.51	30.35 ng	2437100	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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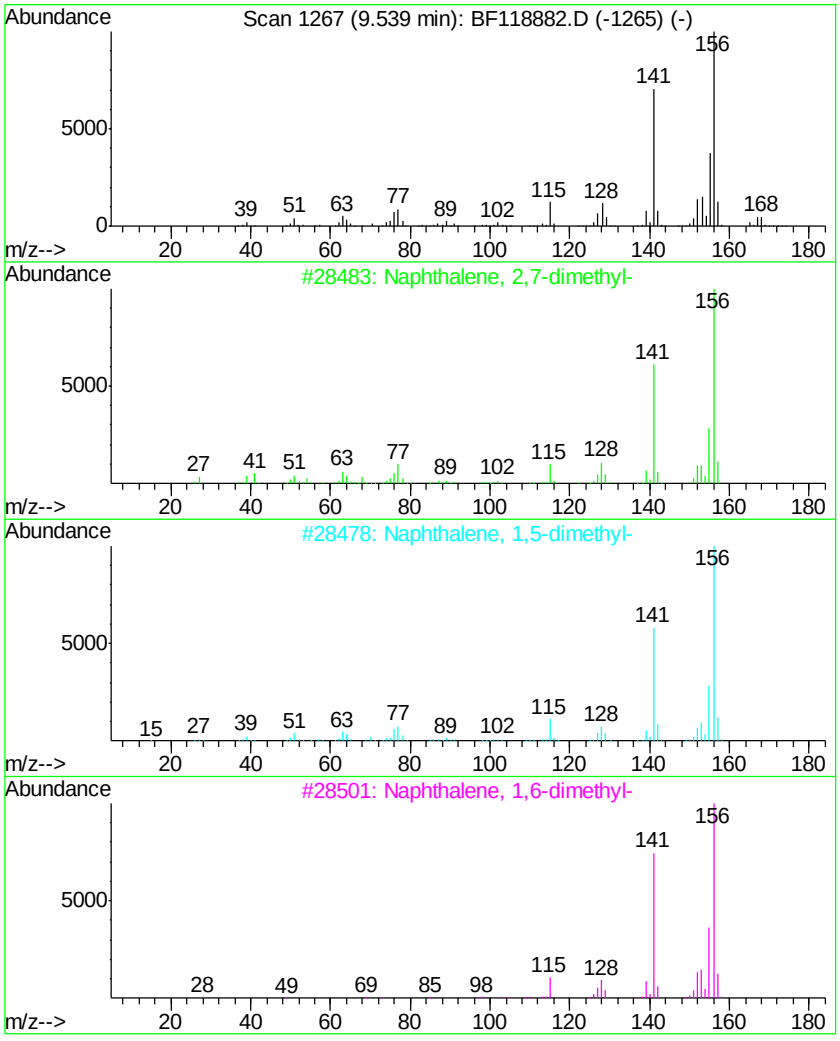
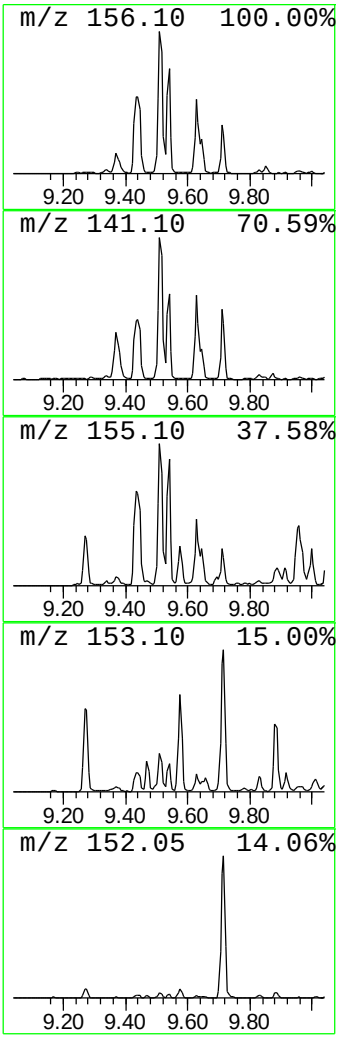
Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	17.10 ng	1373630	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

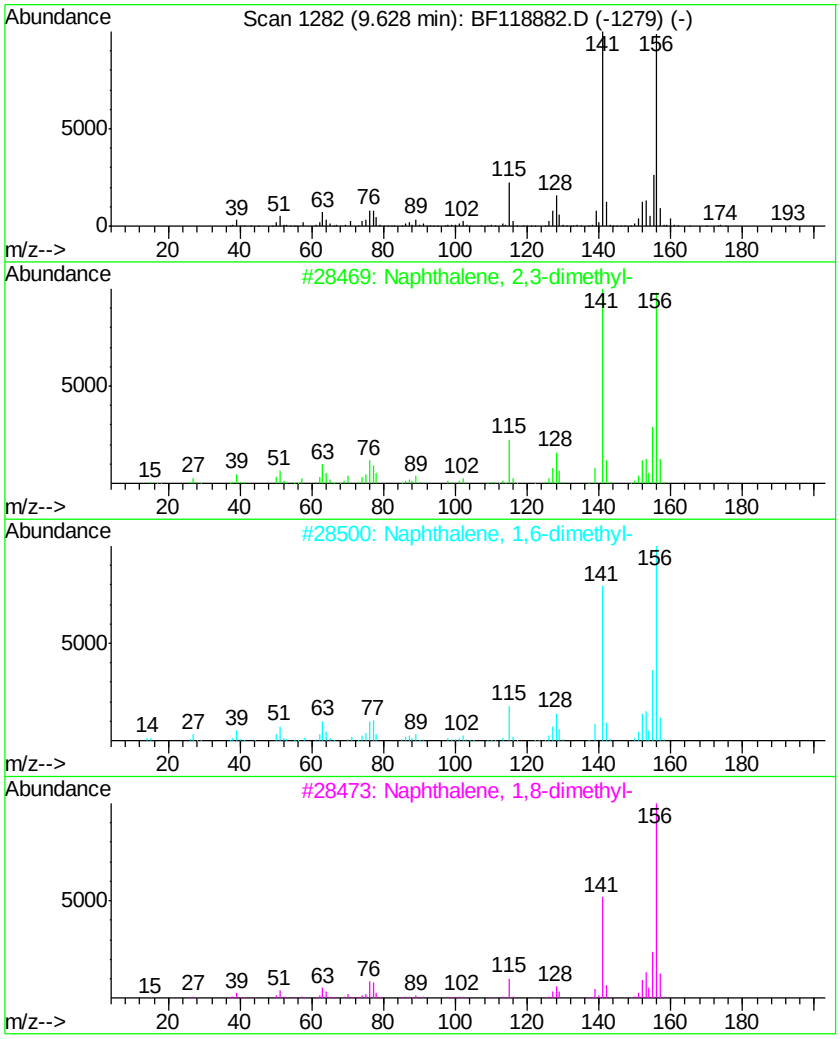
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

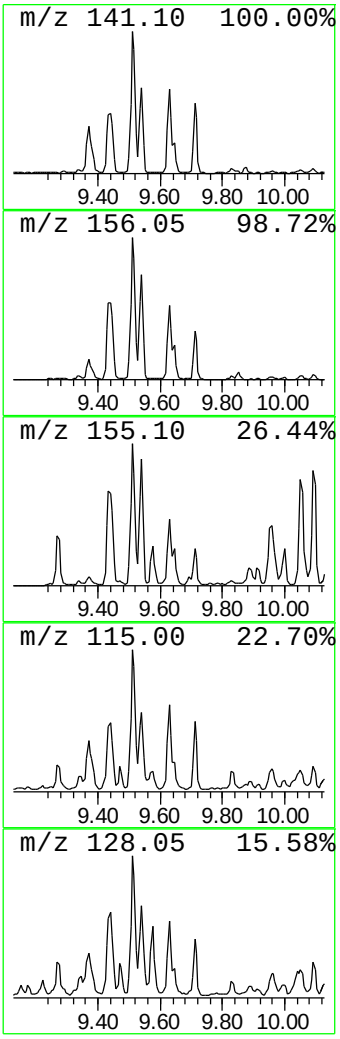
****

Peak Number 4 Naphthalene, 1,8-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.63	18.13 ng	1456190	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

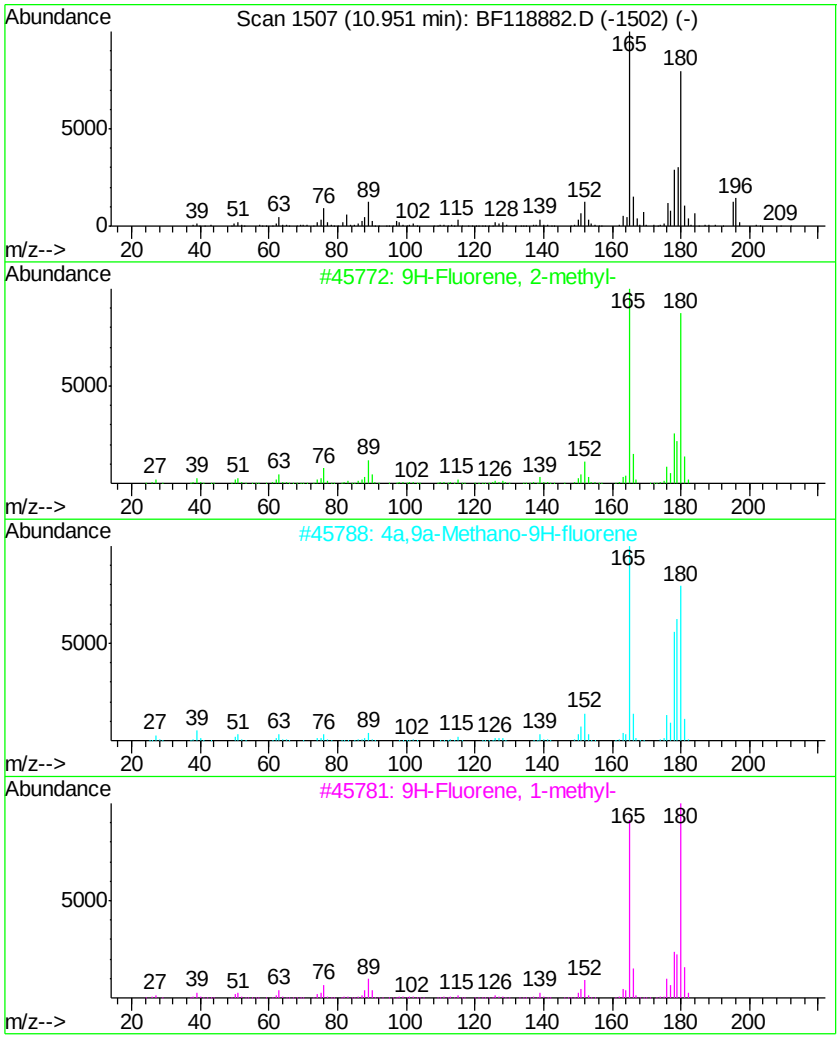
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

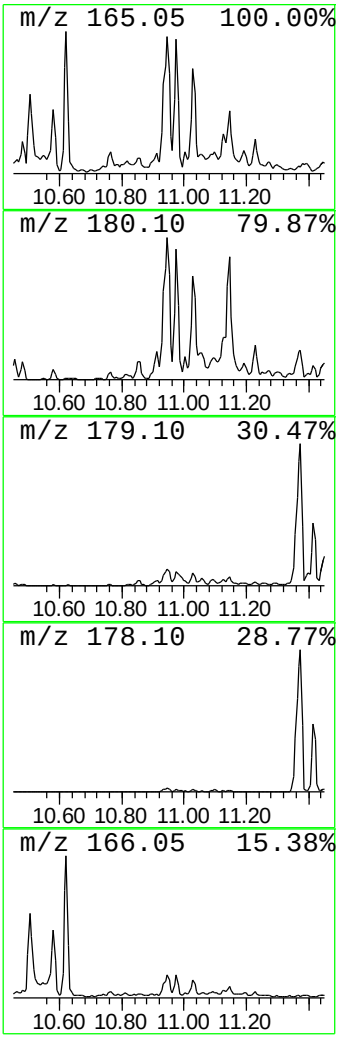
****

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	23.02 ng	1618110	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
2	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	92
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	76
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68





Library Search Compound Report

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Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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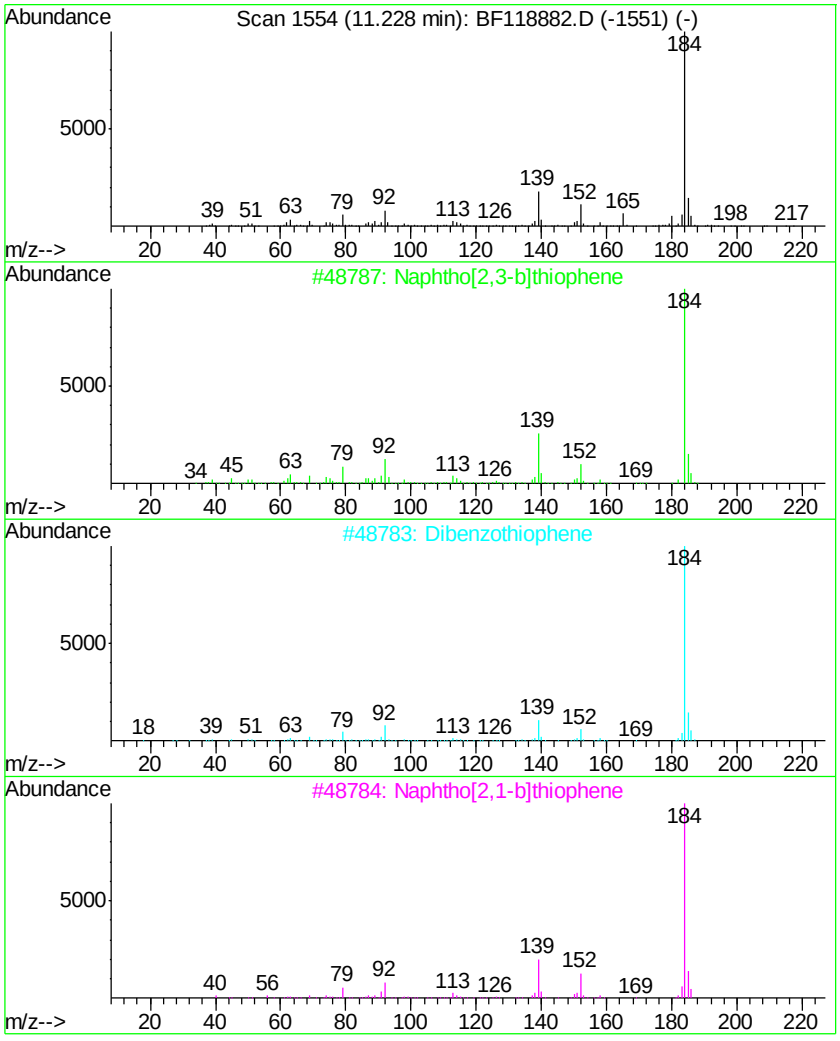
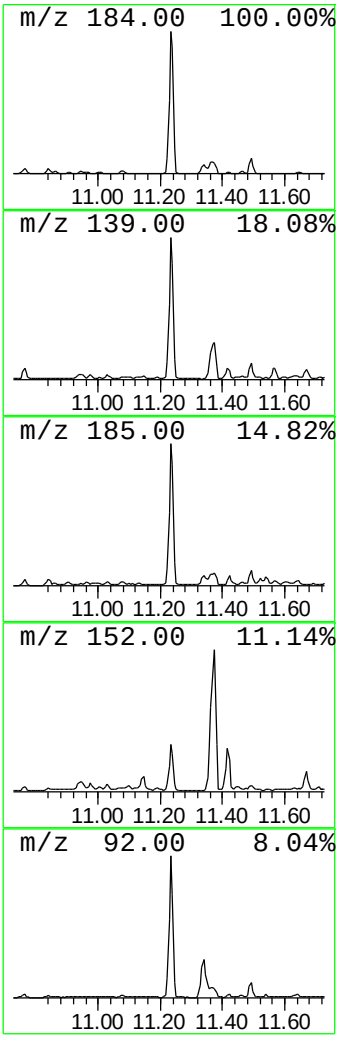
Peak Number 6 Naphtho[2,3-b]thiophene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	51.59 ng	3626000	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	97
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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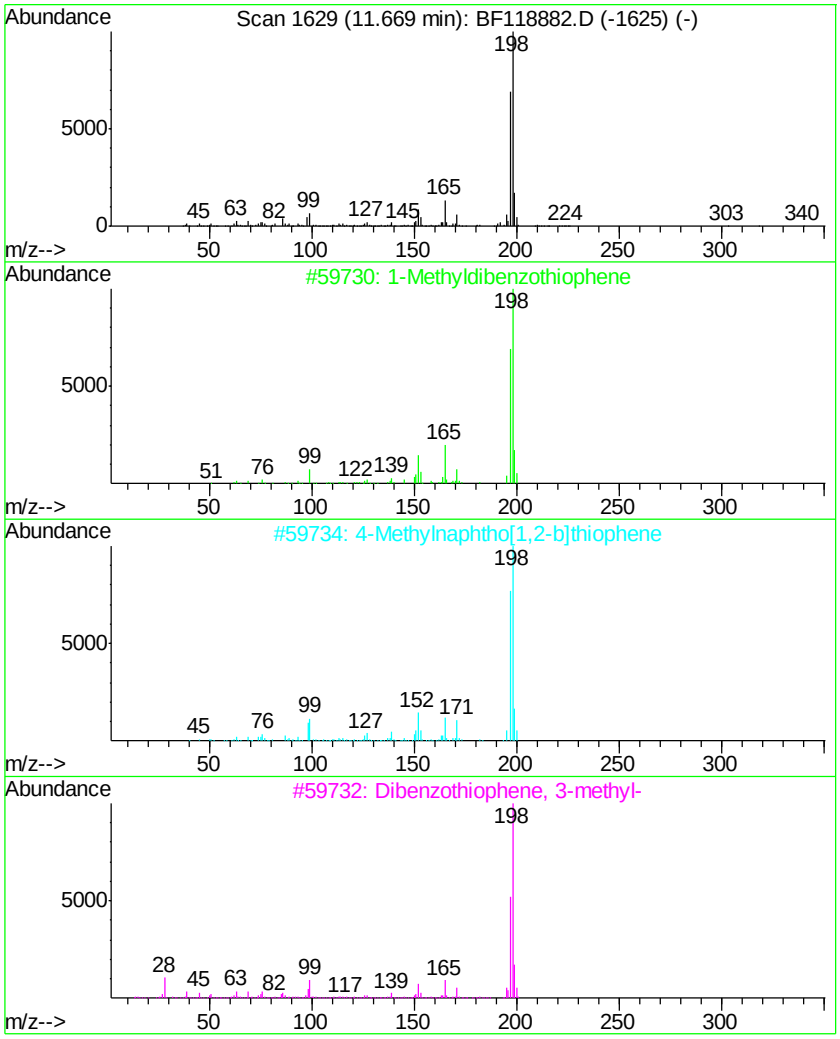
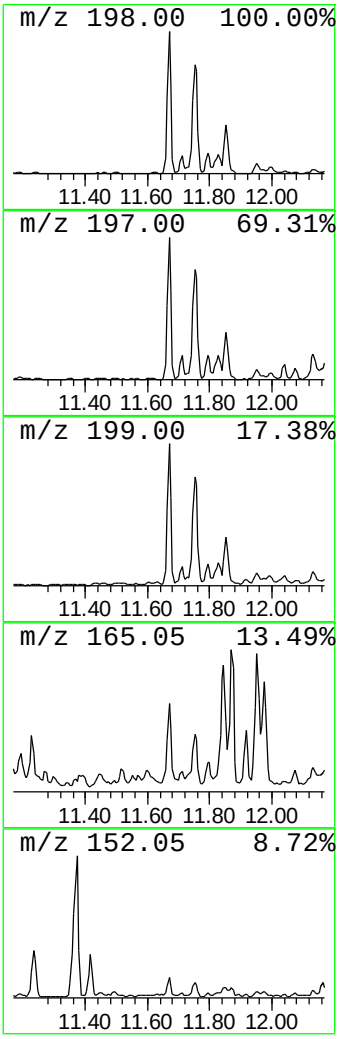
Peak Number 7 1-Methyldibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	30.21 ng	2123510	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	94
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
5	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	87





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Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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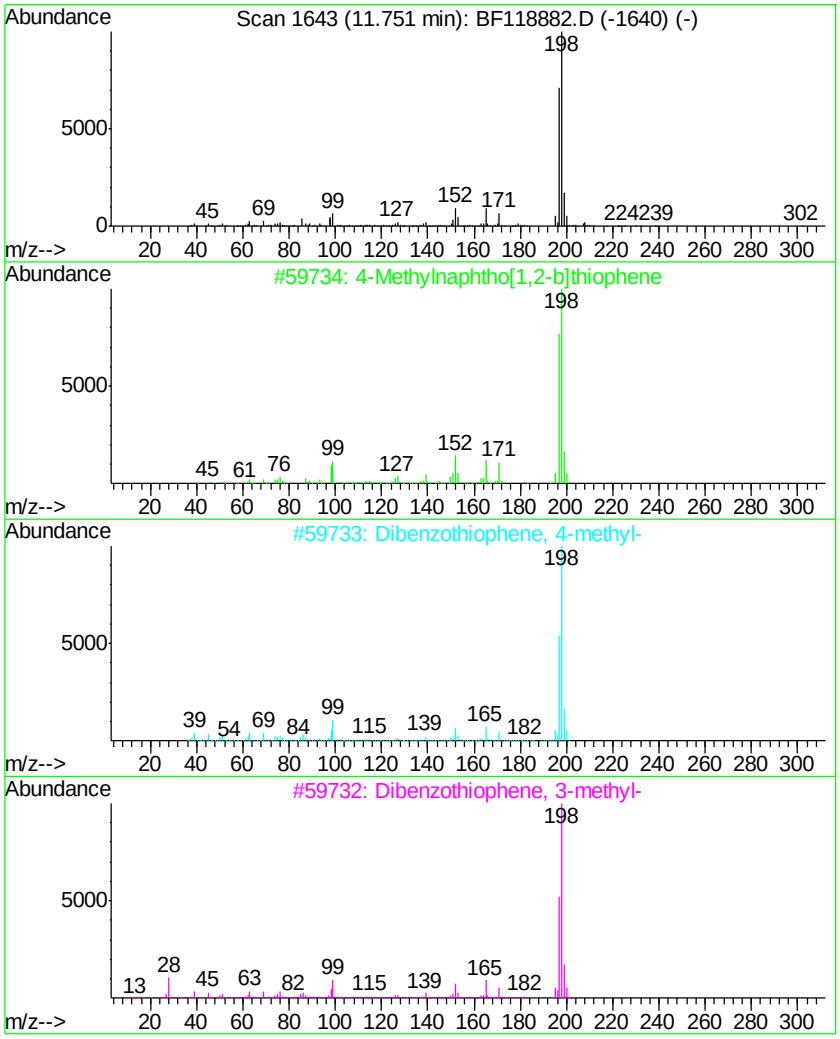
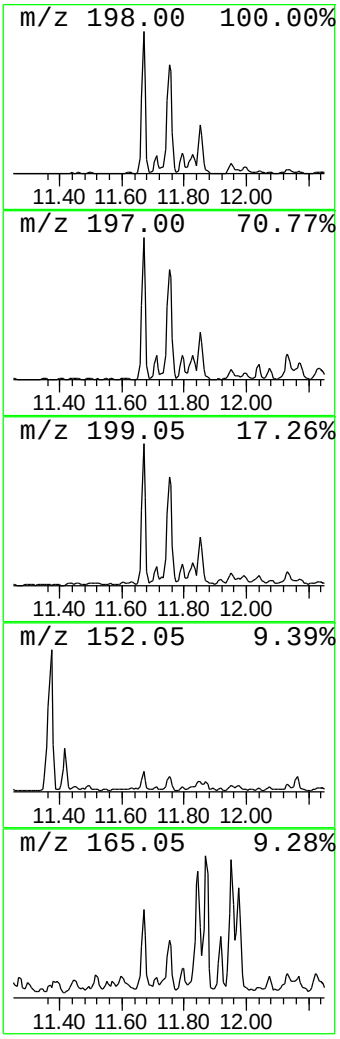
Peak Number 8 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	26.37 ng	1853600	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	93
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	72





Library Search Compound Report

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Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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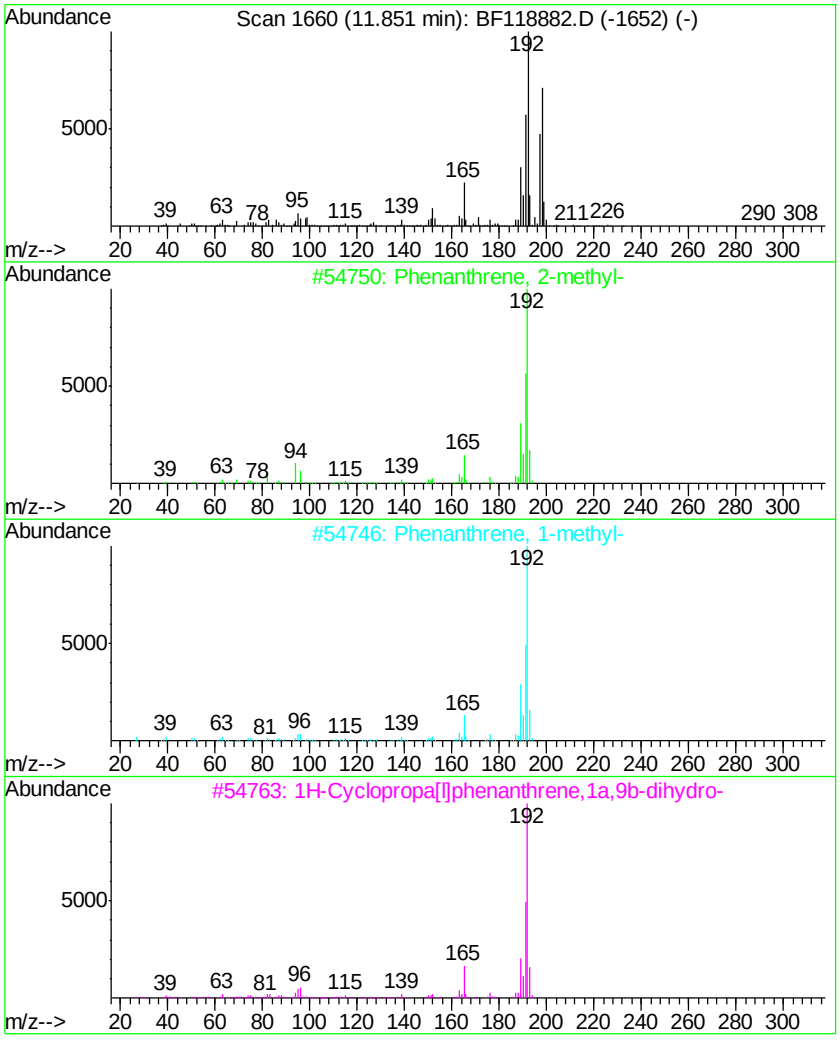
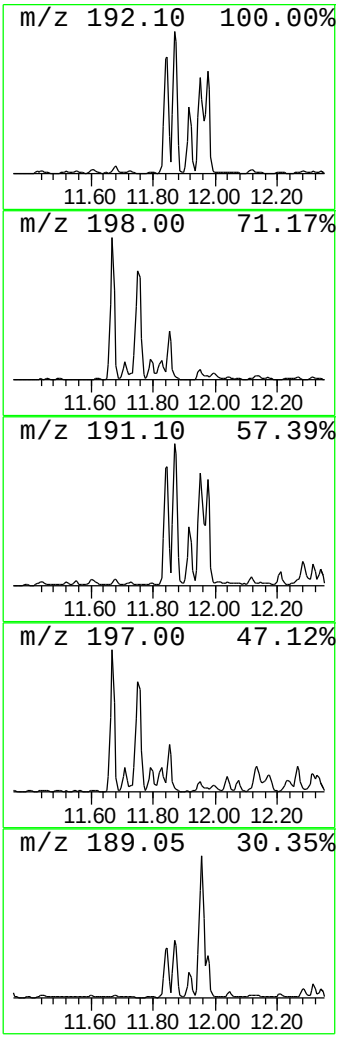
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	51.48 ng	3618370	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91





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Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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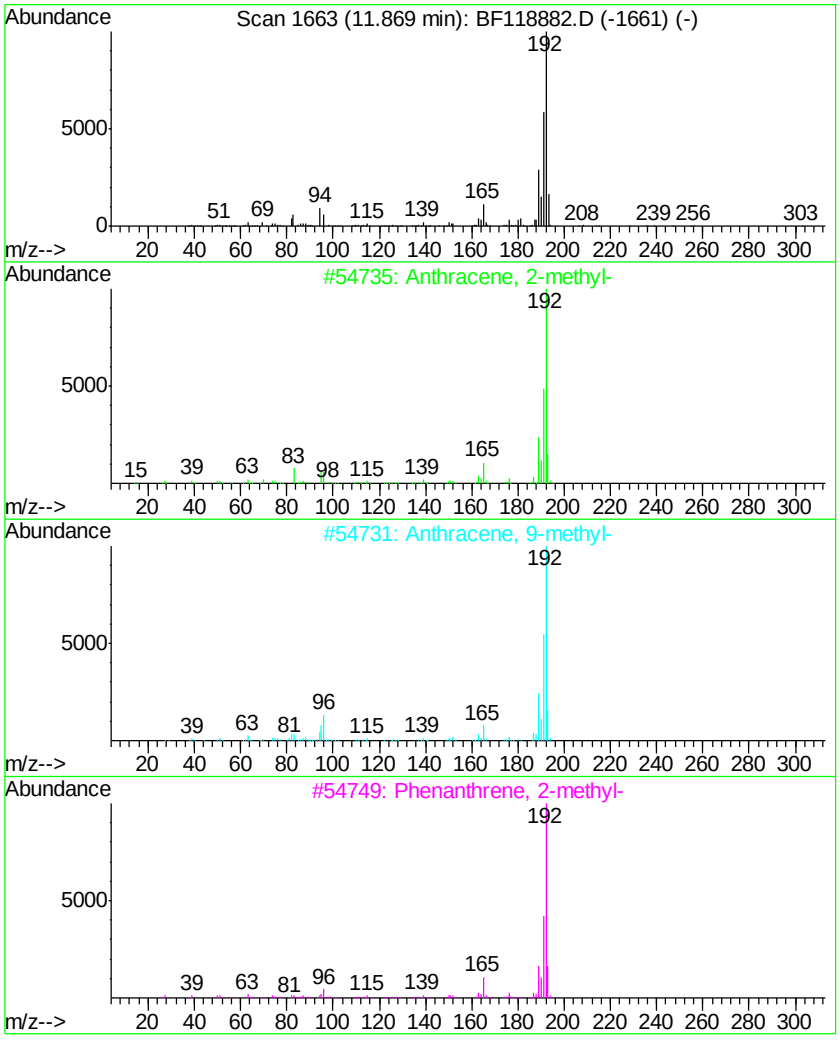
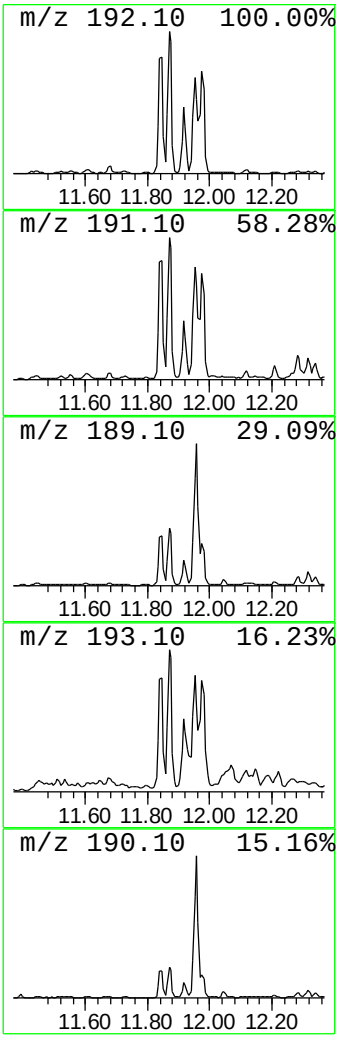
Peak Number 10 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	46.58 ng	3274160	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	92
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89





Library Search Compound Report

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Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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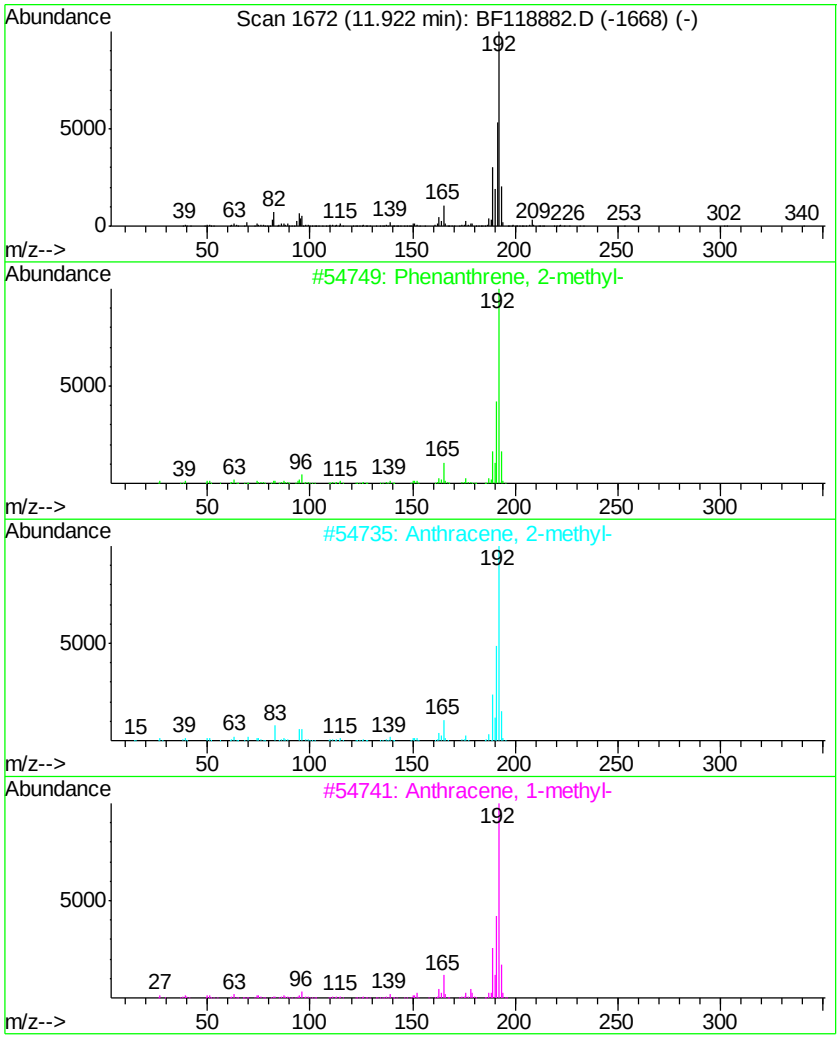
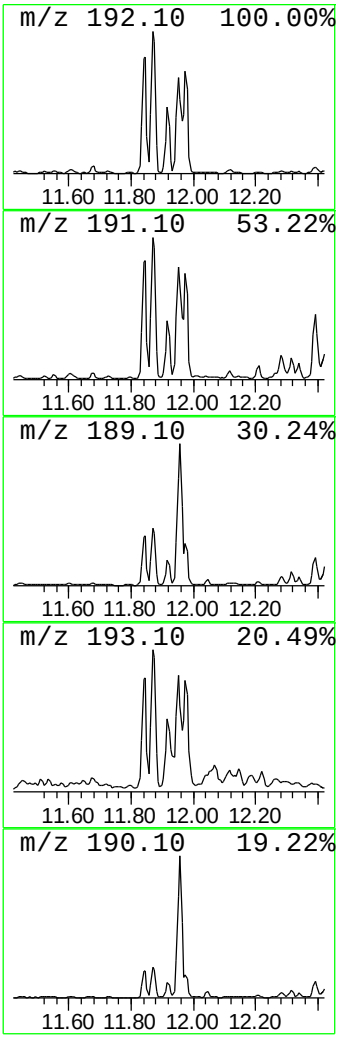
Peak Number 11 Anthracene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	20.64 ng	1450670	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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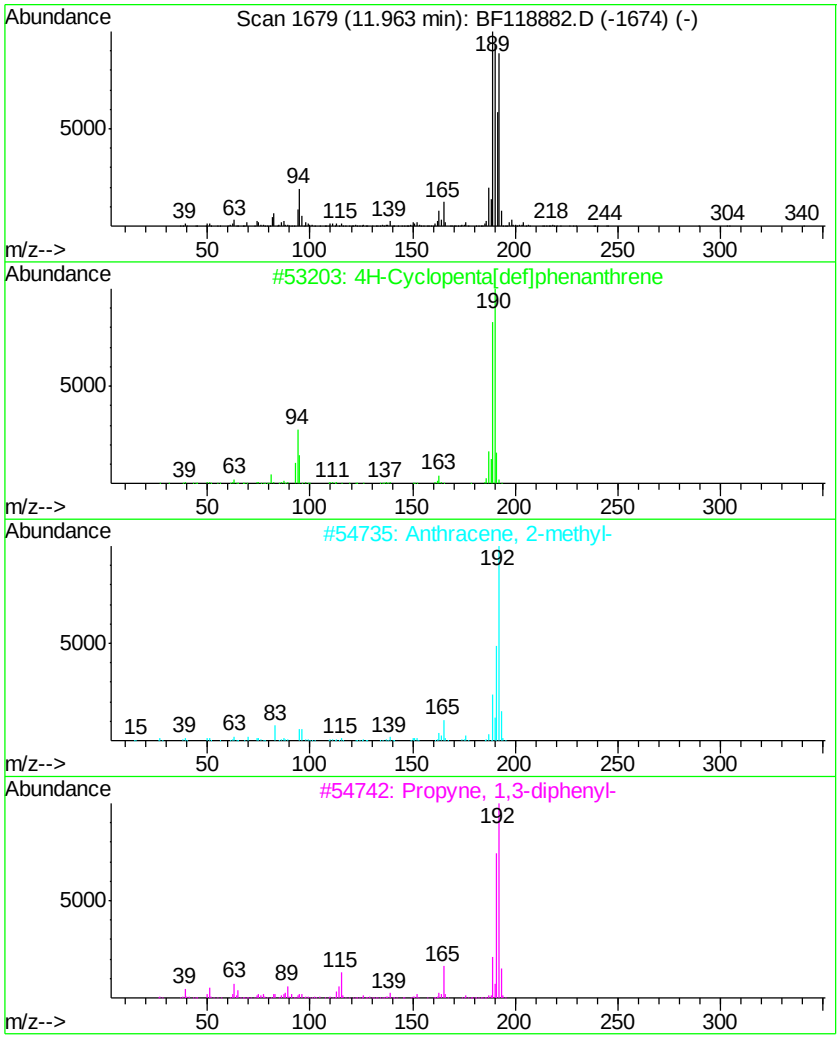
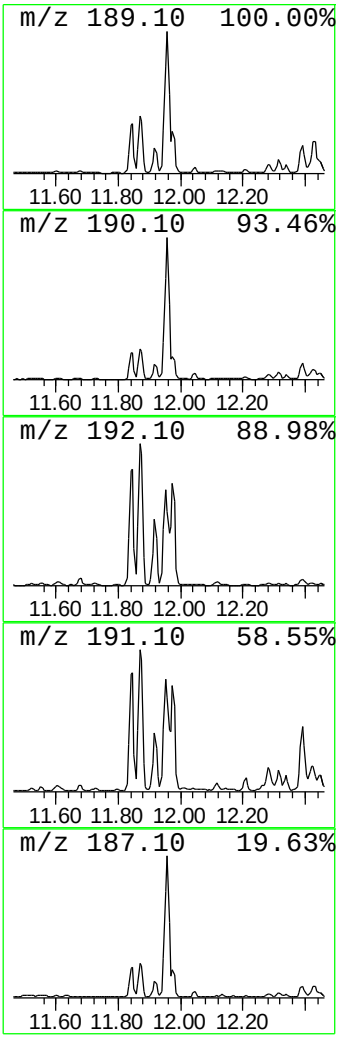
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	69.46 ng	4882260	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	25
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	22
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	15
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	14





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Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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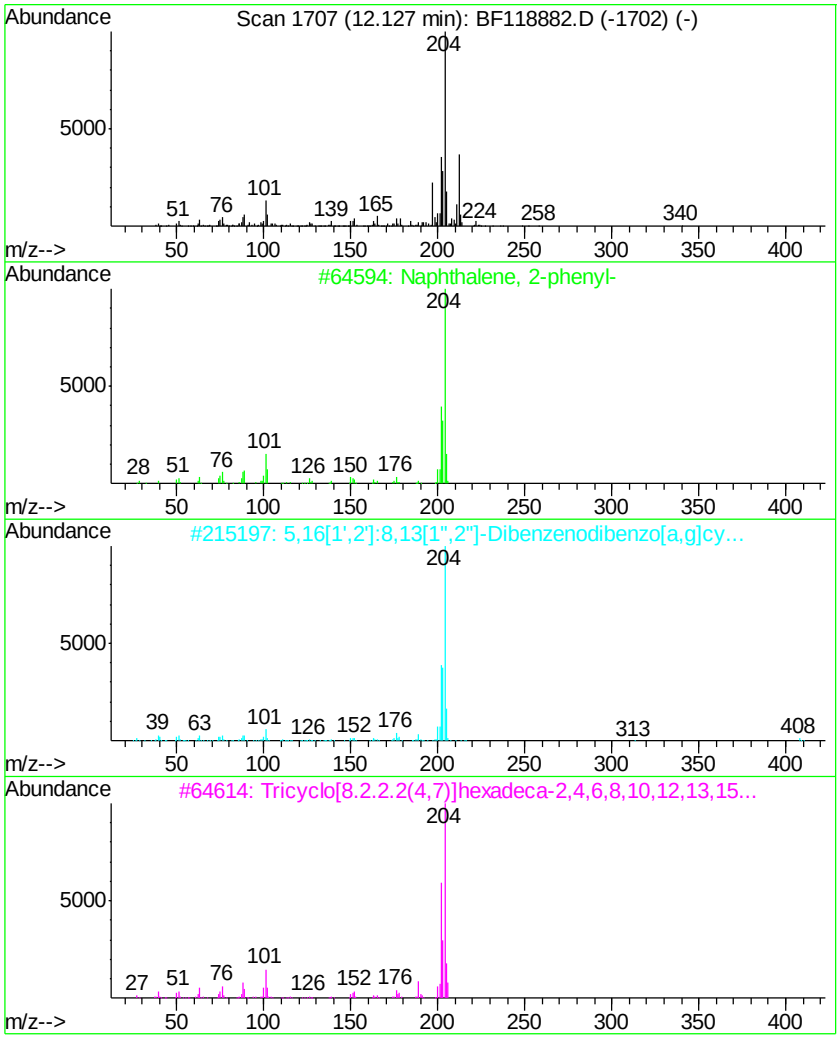
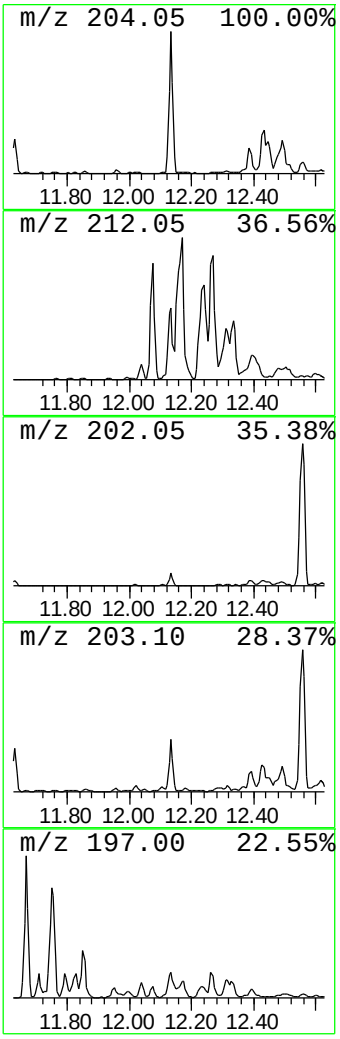
Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	27.86 ng	1957900	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	52
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	50
5	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	50





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Sample : L1468-01 10X
Misc :
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Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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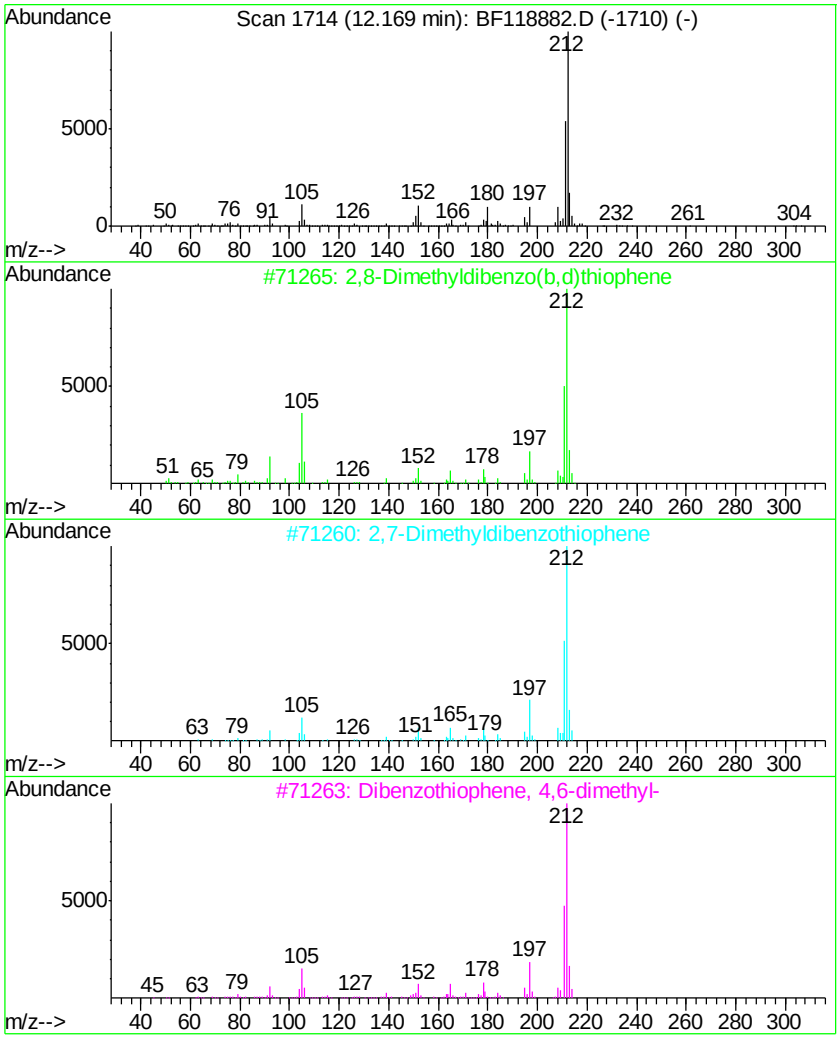
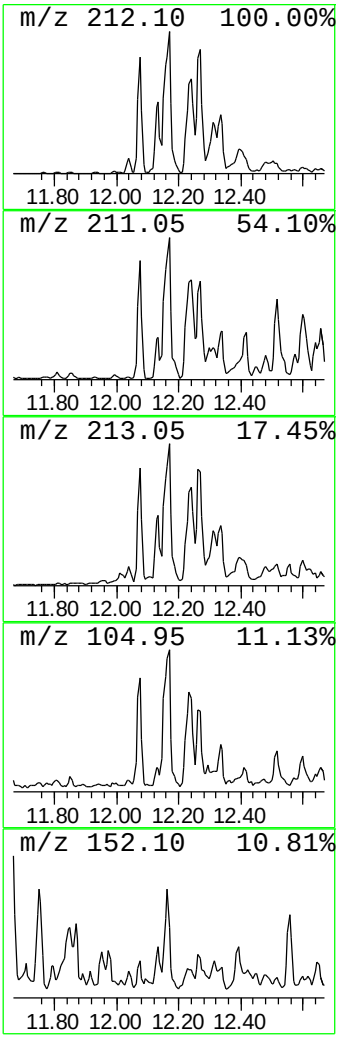
Peak Number 15 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	20.46 ng	1438370	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	93
2	2,7-Dimethyldibenzothiophene	212	C14H12S	031317-19-8	87
3	Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	74
4	3,7-Dimethyldibenzothiophene	212	C14H12S	001136-85-2	74
5	2,6-Dimethyldibenzothiophene	212	C14H12S	089816-75-1	72





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Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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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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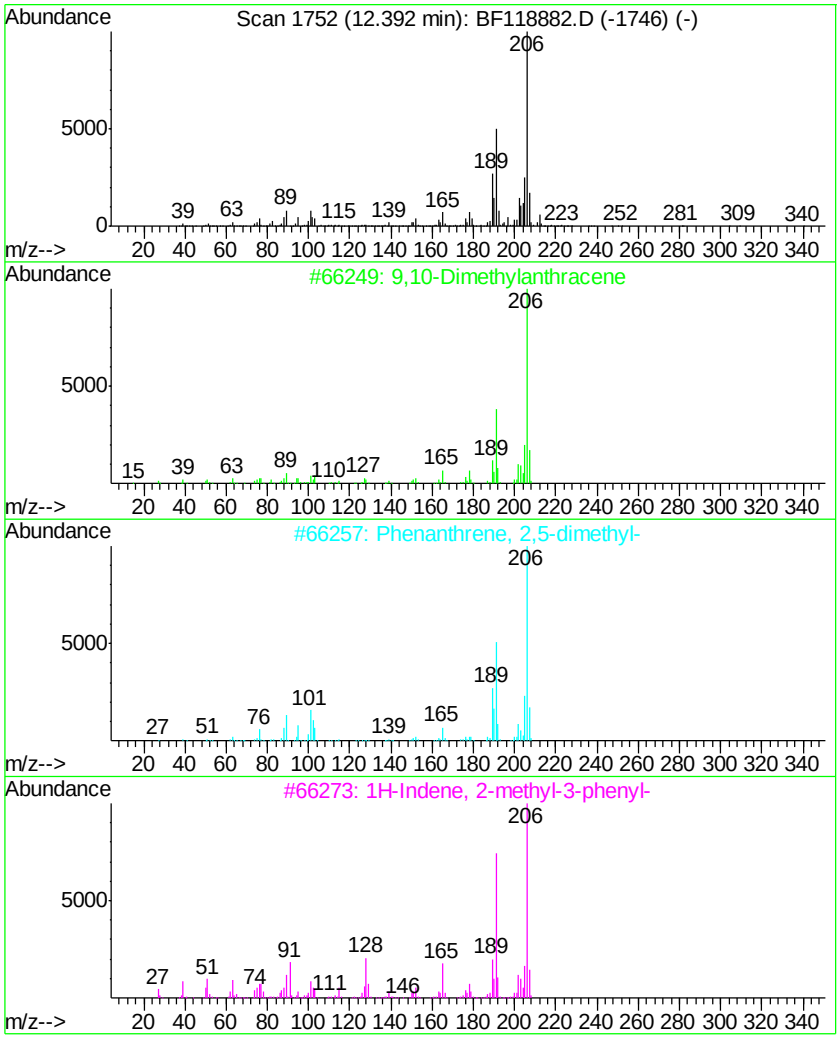
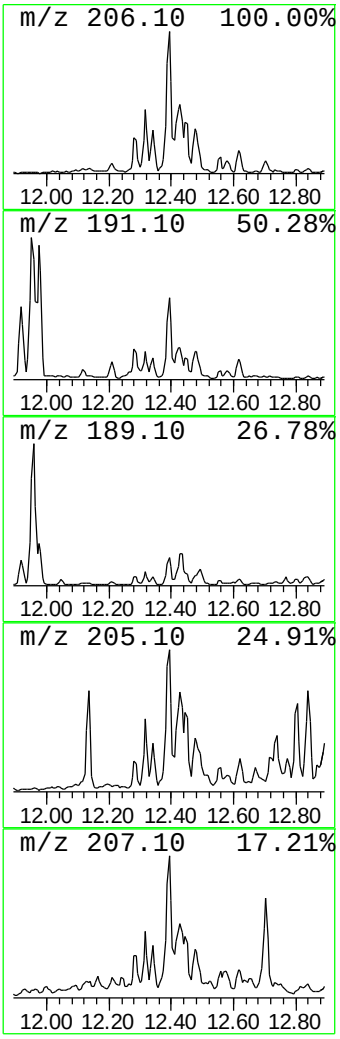
Peak Number 16 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	40.94 ng	2877820	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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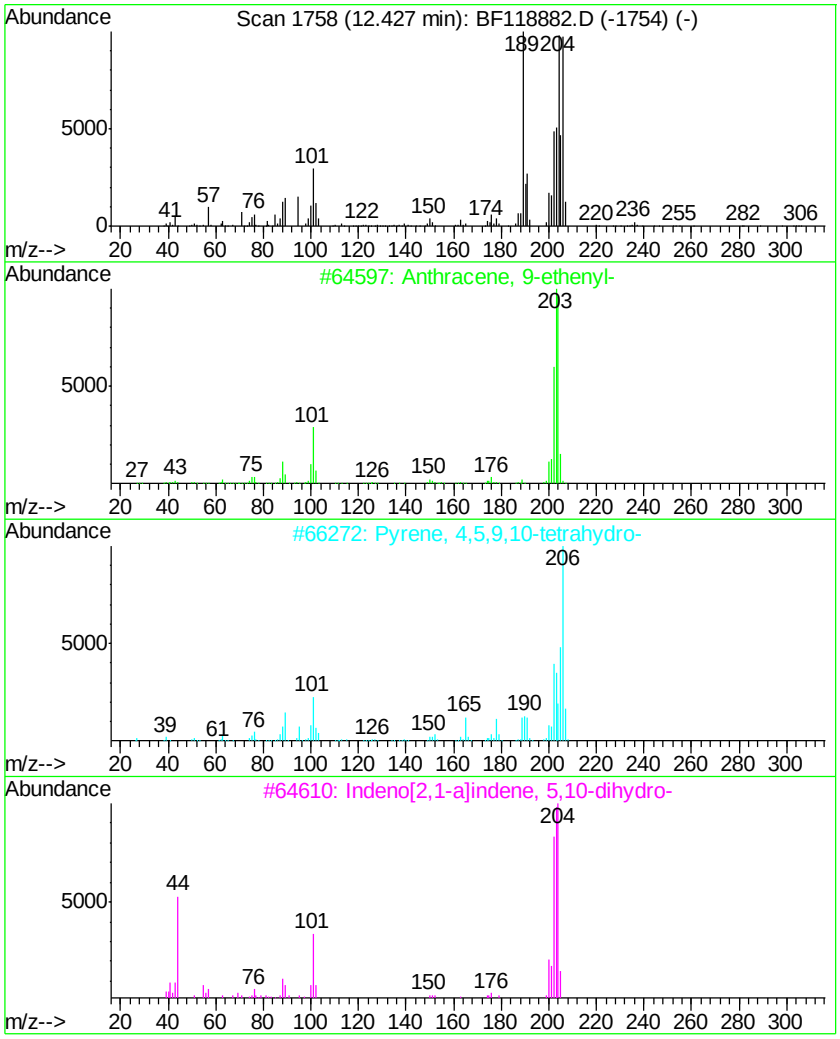
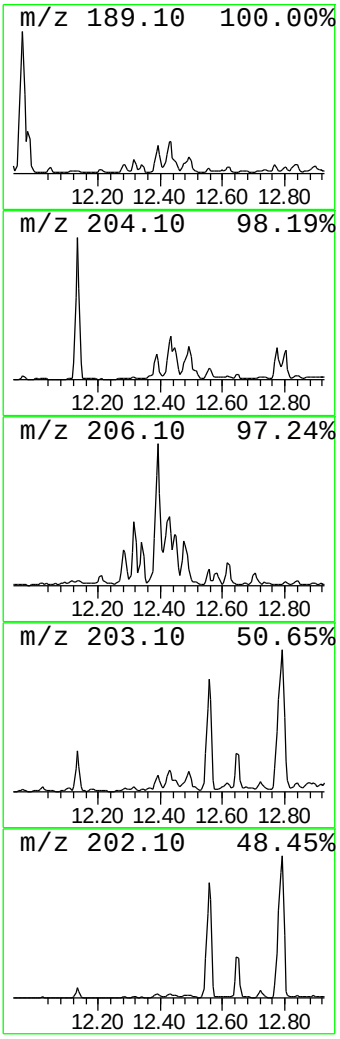
Peak Number 17 Anthracene, 9-ethenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	27.57 ng	1938110	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	44
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	38
5	Benzoic acid, p-[[(dimethylamino...	206	C11H14N2O2	029390-16-7	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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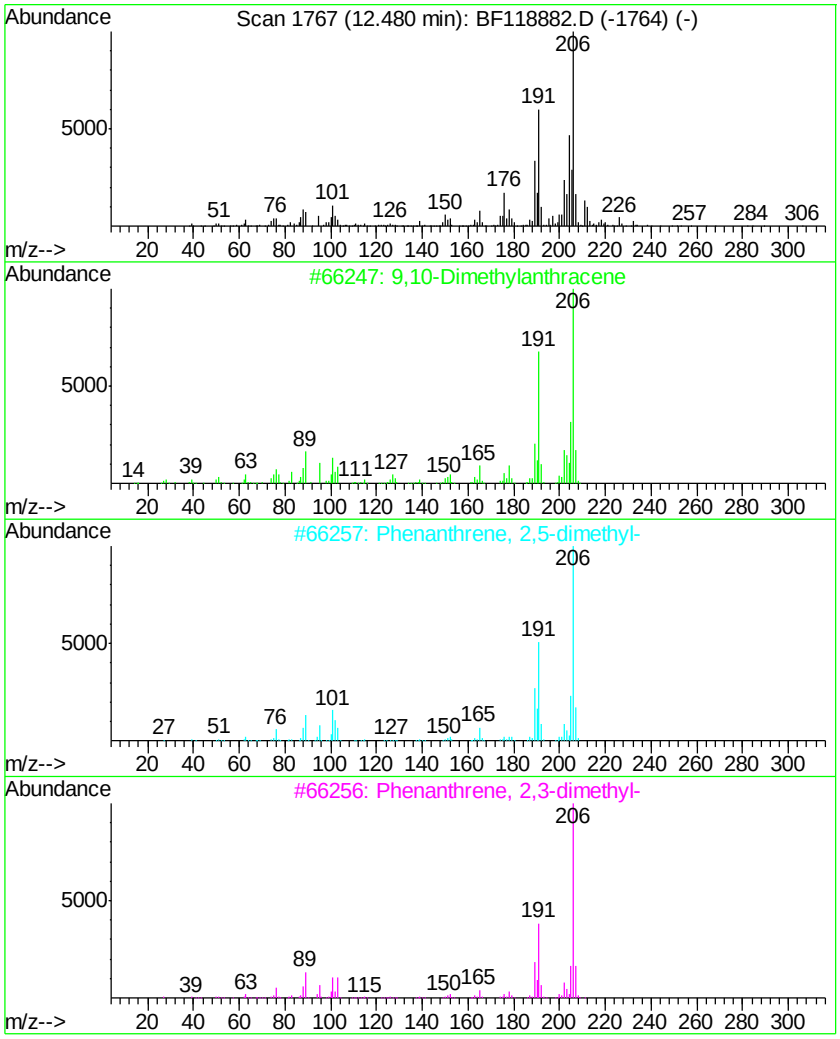
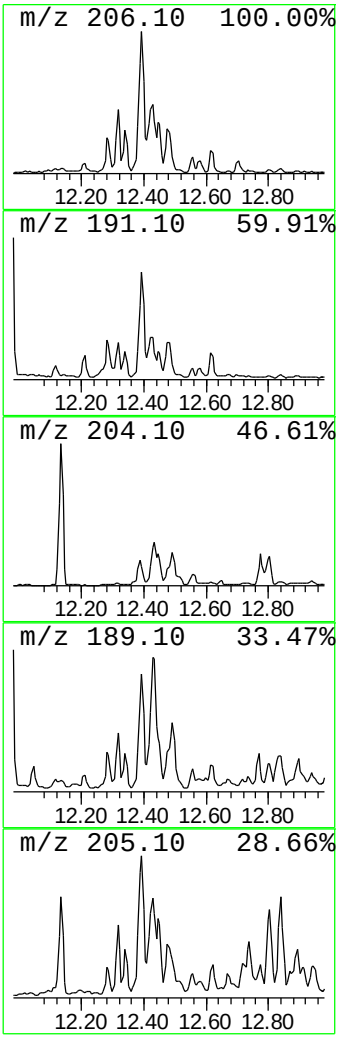
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	17.49 ng	1229180	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	86
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	64
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	60





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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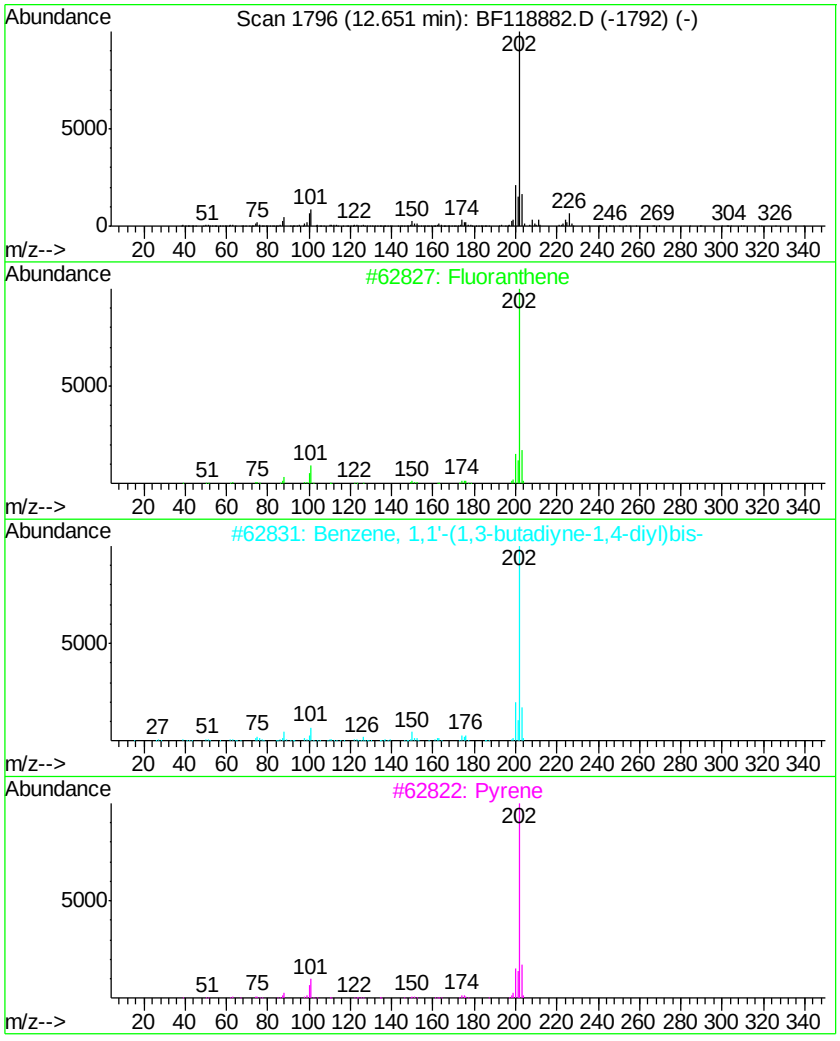
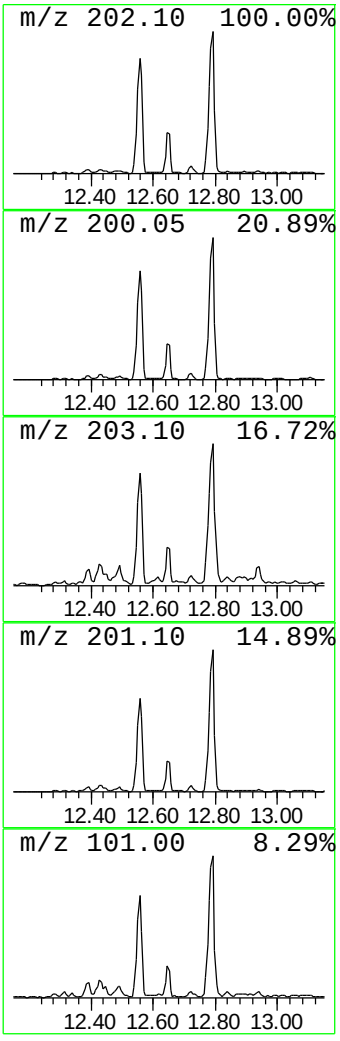
Peak Number 19 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	28.47 ng	2000850	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	95
2	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	76
3	Pyrene	202	C16H10	000129-00-0	76
4	l-Leucine, N-methyl-N-(2-methoxy...	443	C25H49NO5	1000328-54-8	28
5	Pyrimidine, 2-phenyl-4-hydroxy-5...	202	C11H10N2O2	085386-21-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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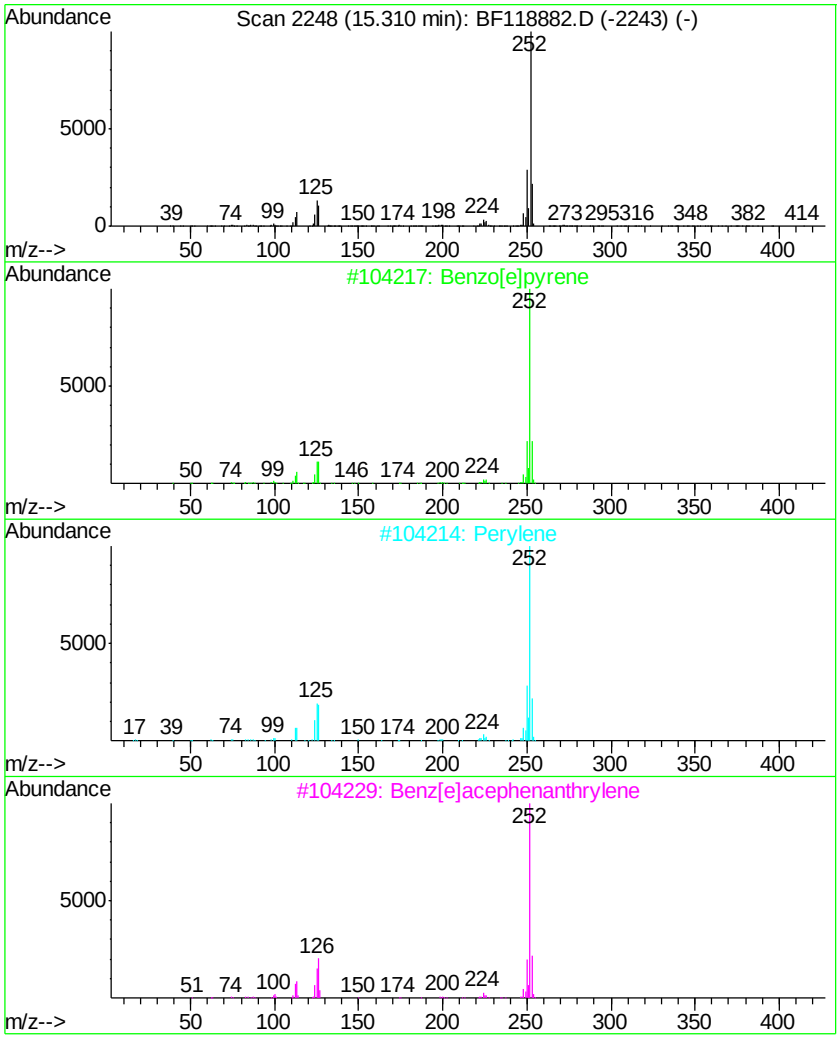
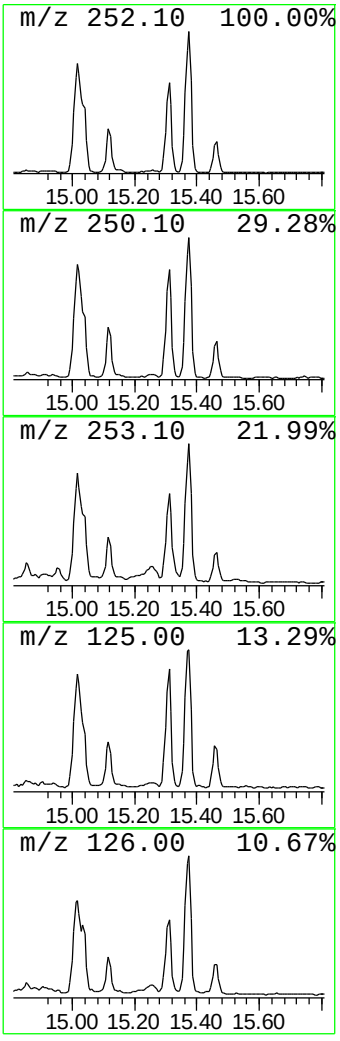
Peak Number 20 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.31	33.06 ng	2246010	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021020\
Data File : BF118882.D
Acq On : 10 Feb 2020 21:43
Operator : CG/JU
Sample : L1468-01 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP11-EP1-2.5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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
Naphthalene, 1,6-...	9.44	24.1	ng	1933930	3	9.85	1606180	20.0
Naphthalene, 2,3-...	9.51	30.4	ng	2437100	3	9.85	1606180	20.0
Naphthalene, 2,7-...	9.54	17.1	ng	1373630	3	9.85	1606180	20.0
Naphthalene, 1,8-...	9.63	18.1	ng	1456190	3	9.85	1606180	20.0
9H-Fluorene, 2-me...	10.95	23.0	ng	1618110	4	11.34	1405720	20.0
Naphtho[2,3-b]thi...	11.23	51.6	ng	3626000	4	11.34	1405720	20.0
1-Methyldibenzoth...	11.67	30.2	ng	2123510	4	11.34	1405720	20.0
4-Methylnaphtho[1...	11.75	26.4	ng	1853600	4	11.34	1405720	20.0
Phenanthrene, 2-m...	11.85	51.5	ng	3618370	4	11.34	1405720	20.0
Anthracene, 2-met...	11.87	46.6	ng	3274160	4	11.34	1405720	20.0
Anthracene, 1-met...	11.92	20.6	ng	1450670	4	11.34	1405720	20.0
4H-Cyclopenta[def...	11.96	69.5	ng	4882260	4	11.34	1405720	20.0
Naphthalene, 2-ph...	12.13	27.9	ng	1957900	4	11.34	1405720	20.0
2,8-Dimethyldiben...	12.17	20.5	ng	1438370	4	11.34	1405720	20.0
9,10-Dimethylanth...	12.39	40.9	ng	2877820	4	11.34	1405720	20.0
Anthracene, 9-eth...	12.43	27.6	ng	1938110	4	11.34	1405720	20.0
Phenanthrene, 2,5...	12.48	17.5	ng	1229180	4	11.34	1405720	20.0
Benzene, 1,1'-(1,...	12.65	28.5	ng	2000850	4	11.34	1405720	20.0
Benzo[e]pyrene	15.31	33.1	ng	2246010	6	15.43	1358770	20.0