LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

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-BF121418.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	6.786	796	799	802	rBV	1068263	851706	6.65%	0.360%
2	6.945	822	826	828	rBV	661172	642422	5.02%	0.271%
3	6.969	828	830	834	rVB	929439	718648	5.61%	0.303%
4	7.110	850	854	857	rBV	923688	791640	6.18%	0.334%
5	7.328	886	891	893	rVV	1192423	1159975	9.06%	0.490%
6	7.357	893	896	900	rVB2	1095199	1186619	9.27%	0.501%
7	7.586	933	935	939	rVB	904896	779906	6.09%	0.329%
8	7.745	960	962	968	rVB	1677537	1387410	10.84%	0.586%
9	7.816	968	974	978	rBV3	2845014	3766671	29.42%	1.591%
10	7.857	978	981	986	rVV	1575423	2185923	17.07%	0.923%
11	8.069	1012	1017	1019	rVV2	1852483	2773538	21.66%	1.171%
12	8.098	1019	1022	1025	rVV	7000113	6718855	52.48%	2.837%
13	8.428	1075	1078	1081	rVV	764759	972604	7.60%	0.411%
14	8.457	1081	1083	1089	rVV3	398157	651616	5.09%	0.275%
15	8.516	1089	1093	1094	rVV2	1069578	1257462	9.82%	0.531%
16	8.539	1094	1097	1099	rVV2	1359532	1611698	12.59%	0.681%
17	8.563	1099	1101	1102	rVV	742518	723191	5.65%	0.305%
18	8.580	1102	1104	1109	rVV	1683909	1632761	12.75%	0.690%
19	8.716	1123	1127	1129	rVV	777560	973975	7.61%	0.411%
20	8.739	1129	1131	1134	rVV3	555442	684446	5.35%	0.289%
21	8.798	1134	1141	1144	rVV	9878049	12803717	100.00%	5.407%
22	8.898	1151	1158	1160	rVV	9752886	12300821	96.07%	5.195%
23	9.045	1177	1183	1186	rBV3	459113	787605	6.15%	0.333%
24	9.145	1196	1200	1203	rBV2	1127667	1084554	8.47%	0.458%
25	9.245	1212	1217	1220	rBV	1550251	1673002	13.07%	0.707%
26	9.351	1228	1235	1240	rVB	5438956	7311998	57.11%	3.088%
27	9.422	1241	1247	1250	rBV	4763326	6864209	53.61%	2.899%
28	9.498	1254	1260	1262	rVV	6974398	9209156	71.93%	3.889%
29	9.522	1262	1264	1267	rVV	5907636	4765569	37.22%	2.013%
30	9.557	1267	1270	1273	rVB4	869102	932941	7.29%	0.394%
31	9.610	1273	1279	1286	rVB	4792471	5999786	46.86%	2.534%
32	9.692	1290	1293	1298	rVB	4144410	3665163	28.63%	1.548%
33	9.816	1310	1314	1315	rBV	1986630	2047626	15.99%	0.865%
34	9.869	1319	1323	1326	rBV	8079021	9092711	71.02%	3.840%

LSC Area Percent Report

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Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

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-BF121418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.933	1330	1334	1338	rBV	2358888	3309307	25.85%	1.398%
36	9.974	1338	1341	1345	rBV2	850906	1076058	8.40%	0.454%
37	10.033	1347	1351	1354	rVB	2776751	3122605	24.39%	1.319%
38	10.074	1354	1358	1360	rVB	2497072	2081701	16.26%	0.879%
39	10.145	1365	1370	1373	rBV2	2330886	2703462	21.11%	1.142%
40	10.174	1373	1375	1381	rVB2	2128415	1942655	15.17%	0.820%
41	10.239	1381	1386	1387	rBV2	1944830	2547985	19.90%	1.076%
42	10.257	1387	1389	1391	rVB	1510599	1105191	8.63%	0.467%
43	10.280	1391	1393	1396	rBV	972151	841996	6.58%	0.356%
44	10.327	1396	1401	1403	rBV4	1113751	1721160	13.44%	0.727%
45	10.380	1406	1410	1415	rVB2	4803960	5000609	39.06%	2.112%
46	10.427	1415	1418	1420	rBV	2350141	2692159	21.03%	1.137%
47	10.463	1423	1424	1426	rVB	1670416	1050386	8.20%	0.444%
48	10.492	1426	1429	1431	rBV2	2435246	2061146	16.10%	0.870%
49	10.510	1431	1432	1434	rBV	999898	655162	5.12%	0.277%
50	10.598	1444	1447	1448	rBV	1437030	1137531	8.88%	0.480%
51	10.616	1448	1450	1454	rVB	1146577	1058133	8.26%	0.447%
52	10.739	1469	1471	1476	rVB2	1122198	1411284	11.02%	0.596%
53	10.921	1498	1502	1505	rVV2	1974736	2998449	23.42%	1.266%
54	10.951	1505	1507	1510	rVV	2063949	2040204	15.93%	0.862%
55	11.010	1514	1517	1520	rVV	1532736	1562121	12.20%	0.660%
56	11.074	1523	1528	1530	rVV2	876093	1308547	10.22%	0.553%
57	11.104	1530	1533	1534	rVV2	871895	874410	6.83%	0.369%
58	11.121	1534	1536	1541	rVV	1438103	1436031	11.22%	0.606%
59	11.169	1541	1544	1547	rVV2	609220	761404	5.95%	0.322%
60	11.210	1547	1551	1560	rVB3	1829380	2527686	19.74%	1.067%
61	11.316	1565	1569	1570	rBV	1140990	1230637	9.61%	0.520%
62	11.351	1570	1575	1577	rVB	7864089	9252710	72.27%	3.907%
63	11.392	1577	1582	1584	rBV	3595946	2826836	22.08%	1.194%
64	11.421	1584	1587	1590	rBV3	763868	859436	6.71%	0.363%
65	11.469	1594	1595	1601	rVB2	578122	745424	5.82%	0.315%
66	11.551	1606	1609	1611	rBV	629286	701723	5.48%	0.296%
67	11.645	1621	1625	1628	rBV2	1187020	1242470	9.70%	0.525%
68	11.727	1636	1639	1643	rVB3	905229	1016747	7.94%	0.429%
69	11.821	1651	1655	1657	rVV	3221391	3549166	27.72%	1.499%
70	11.851	1657	1660	1664	rVB	3624915	3535759	27.62%	1.493%
71	11.892	1664	1667	1670	rBV	1957036	1902467	14.86%	0.803%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

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-BF121418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.933	1670	1674	1676	rVV	4407928	5364617	41.90%	2.265%
73	11.957	1676	1678	1681	rVB	3180347	2496616	19.50%	1.054%
74	12.110	1701	1704	1708	rVB	1218555	1048368	8.19%	0.443%
75	12.257	1727	1729	1732	rVV	859389	799932	6.25%	0.338%
76	12.292	1732	1735	1737	rVV	691585	708519	5.53%	0.299%
77	12.368	1741	1748	1751	rBV	2588817	3430773	26.80%	1.449%
78	12.404	1751	1754	1756	rVV	1608782	1986082	15.51%	0.839%
79	12.463	1759	1764	1767	rVV3	809353	1270080	9.92%	0.536%
80	12.527	1772	1775	1778	rBV	3423384	3245606	25.35%	1.371%
81	12.568	1780	1782	1784	rVV2	695064	633030	4.94%	0.267%
82	12.621	1788	1791	1794	rVB	1538774	1293545	10.10%	0.546%
83	12.763	1809	1815	1820	rBV	4271745	5267479	41.14%	2.224%
84	12.968	1848	1850	1857	rBV2	833011	1180364	9.22%	0.498%
85	13.080	1863	1869	1873	rVB	1683735	2760317	21.56%	1.166%
86	13.151	1878	1881	1884	rVV	1172239	983309	7.68%	0.415%
87	13.186	1884	1887	1890	rVB	1032688	826453	6.45%	0.349%
88	13.280	1900	1903	1905	rVV	1113084	1011747	7.90%	0.427%
89	13.310	1905	1908	1912	rVB	1318050	1277352	9.98%	0.539%
90	13.698	1970	1974	1977	rVV2	470094	719032	5.62%	0.304%
91	13.945	2011	2016	2019	rBV2	2509765	3709286	28.97%	1.566%
92	13.980	2019	2022	2025	rVV	2145932	2272399	17.75%	0.960%
93	14.092	2038	2041	2052	rVB3	723589	1105475	8.63%	0.467%
94	14.339	2078	2083	2086	rVV	1197580	1542618	12.05%	0.651%
95	14.368	2086	2088	2091	rVV	727682	723340	5.65%	0.305%
96	14.462	2101	2104	2106	rVV2	632907	697314	5.45%	0.294%
97	14.980	2187	2192	2198	rBV	753499	1401176	10.94%	0.592%
98	15.268	2237	2241	2247	rBV	643681	786707	6.14%	0.332%
99	15.333	2247	2252	2257	rBV	1157111	1442046	11.26%	0.609%
100	15.392	2258	2262	2265	rBV	774149	911918	7.12%	0.385%

Sum of corrected areas: 236796181

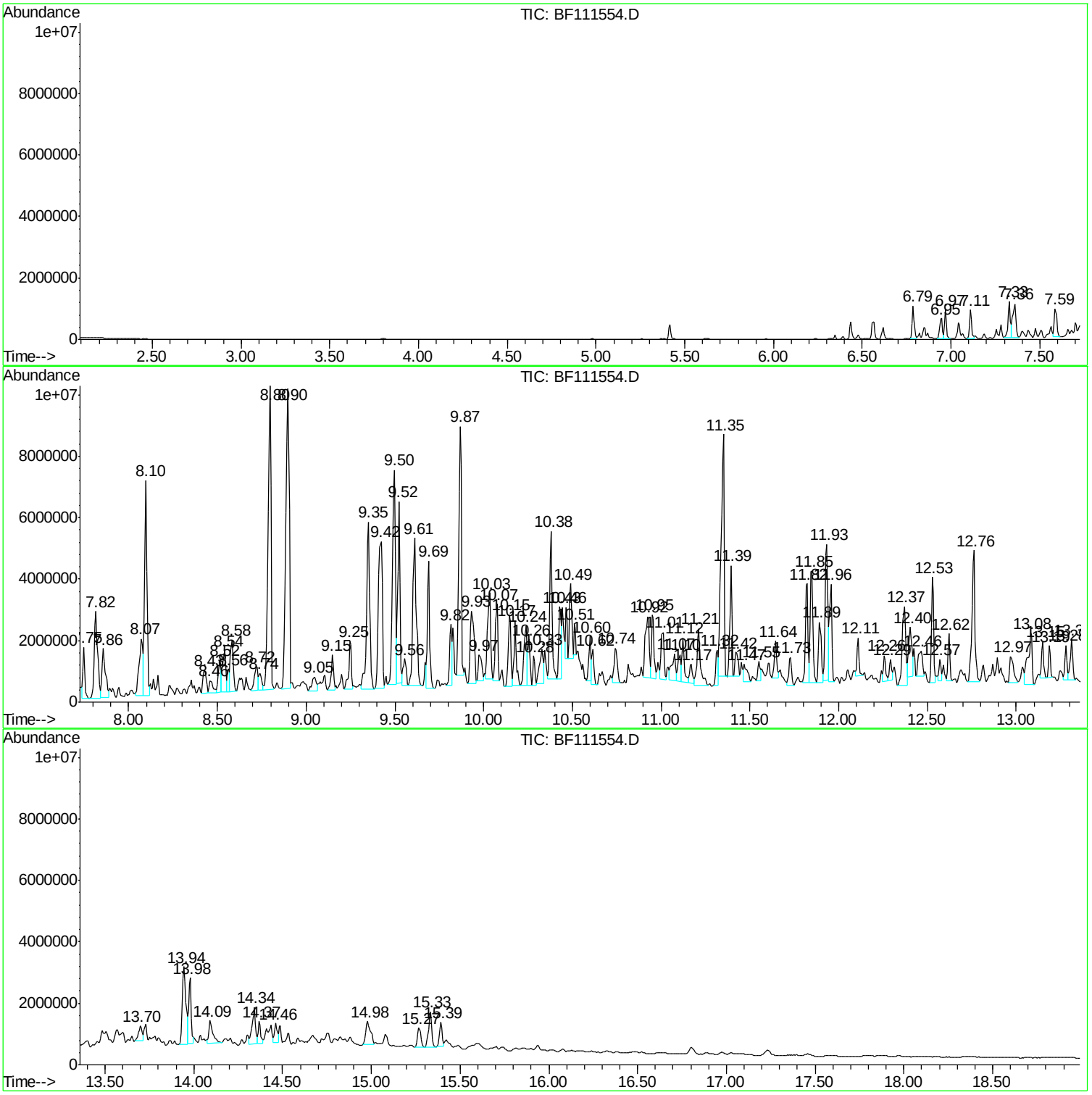
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

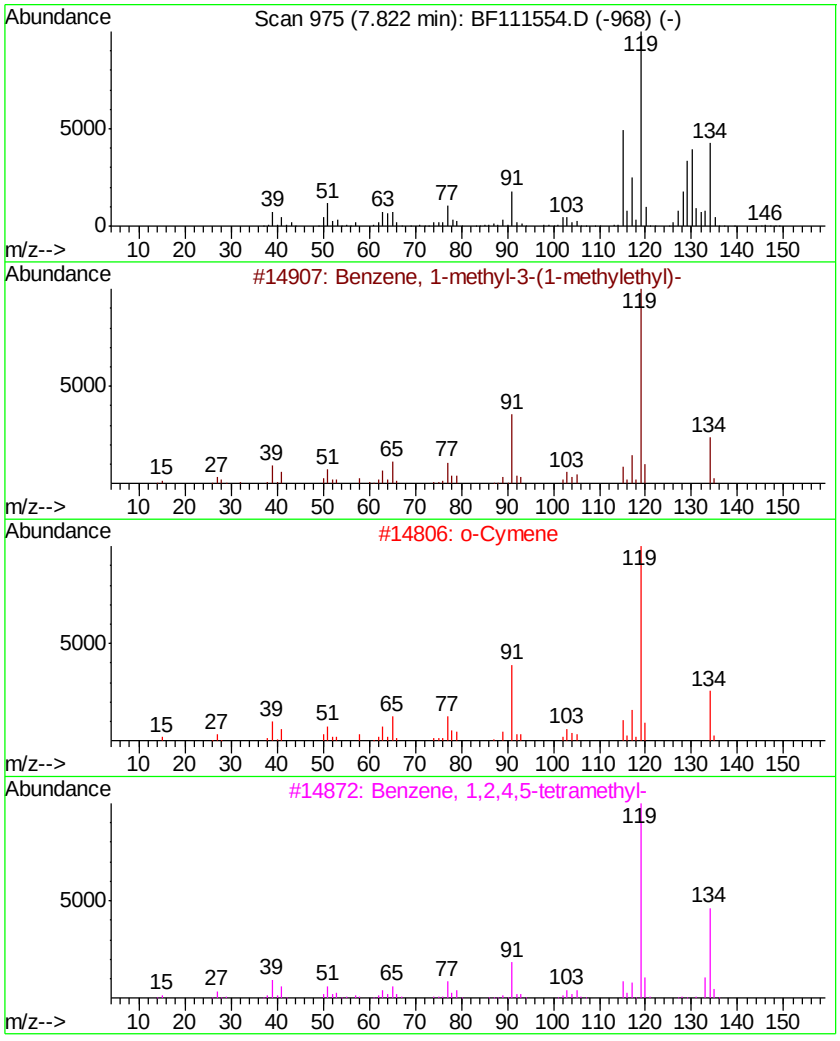
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

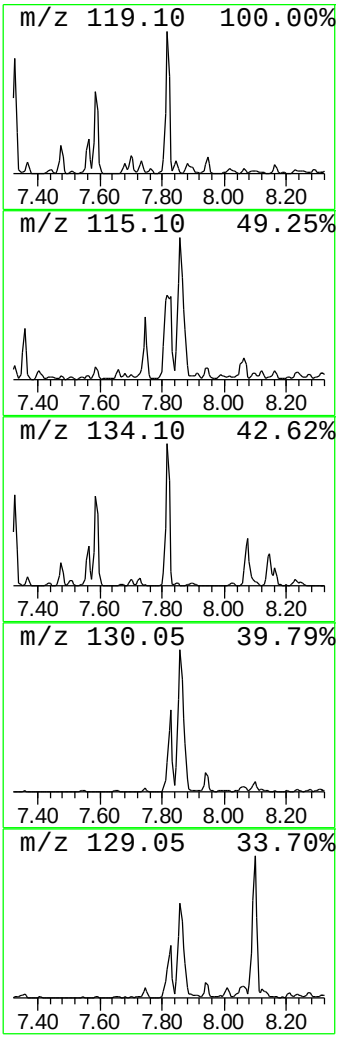
****

Peak Number 1 Benzene, 1-methyl-3-(1-meth... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.82	27.16 ng	3766670	Naphthalene-d8	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	50
2	o-Cymene	134	C10H14	000527-84-4	50
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	50
4	p-Cymene	134	C10H14	000099-87-6	46
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	45





Library Search Compound Report

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Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

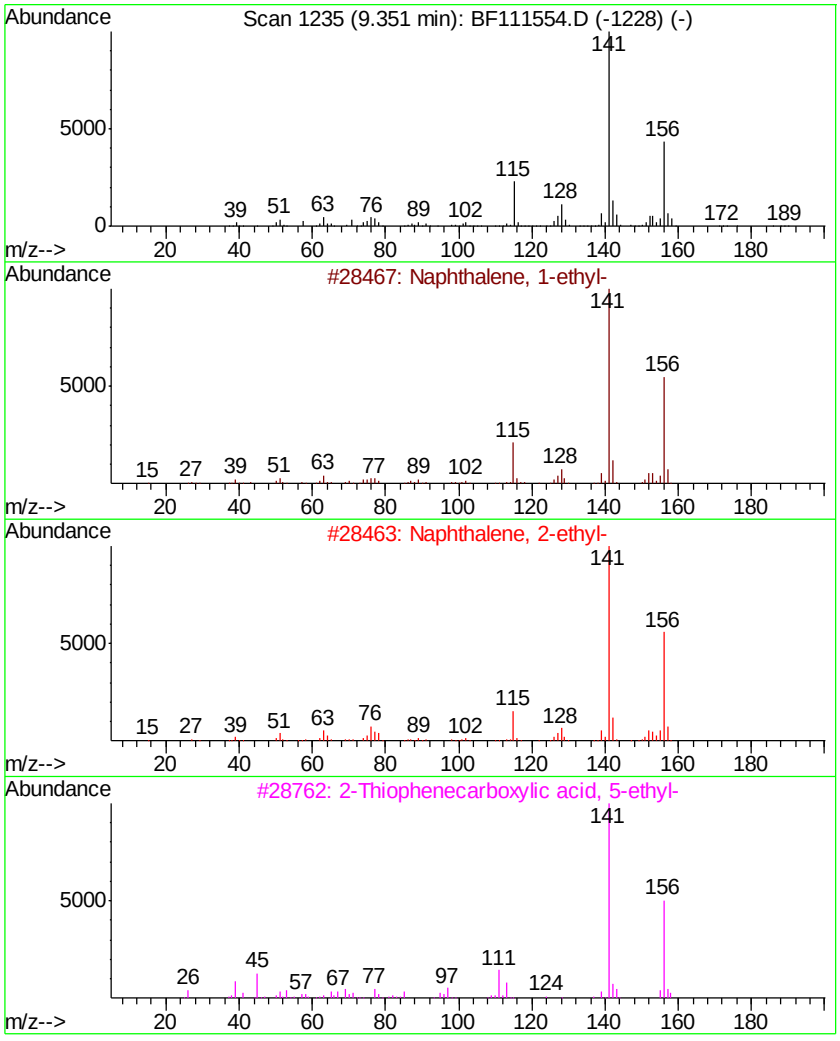
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

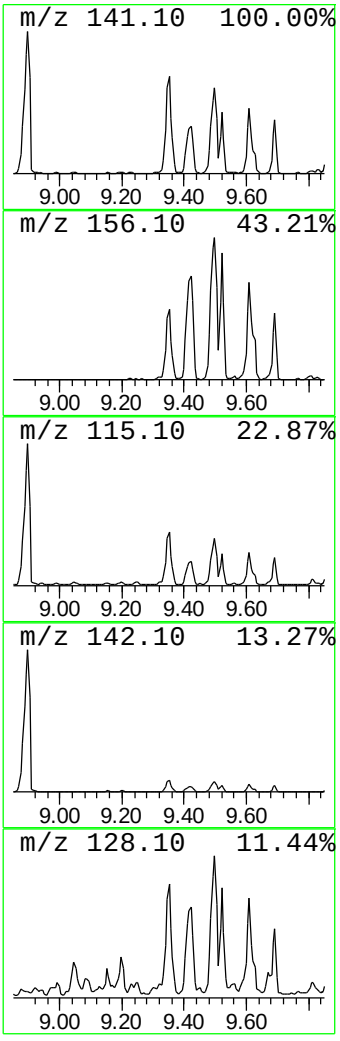
****

Peak Number 2 Naphthalene, 1-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	71.42 ng	7312000	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	64
4	2-Amino-4-tertbutylthiazole	156	C7H12N2S	074370-93-7	59
5	5-Acetyl-2-amino-4-methylthiazole	156	C6H8N2OS	030748-47-1	59





Library Search Compound Report

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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
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TIC Library : C:\DATABASE\NIST11.L
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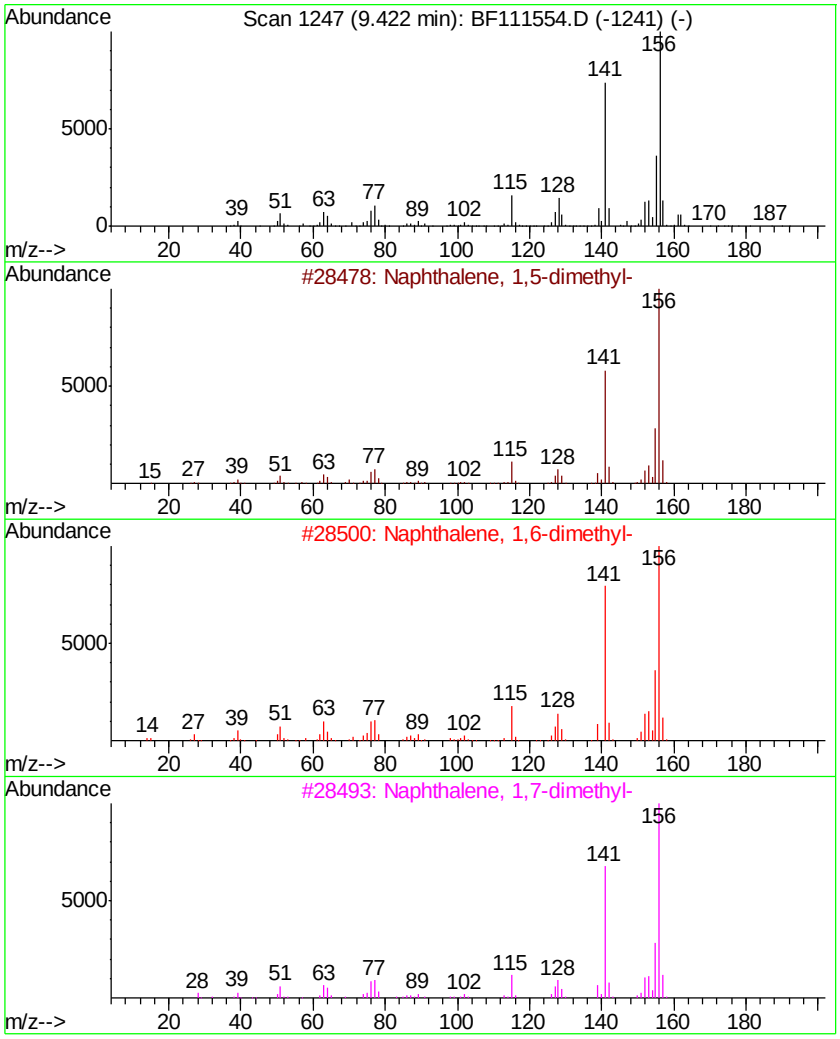
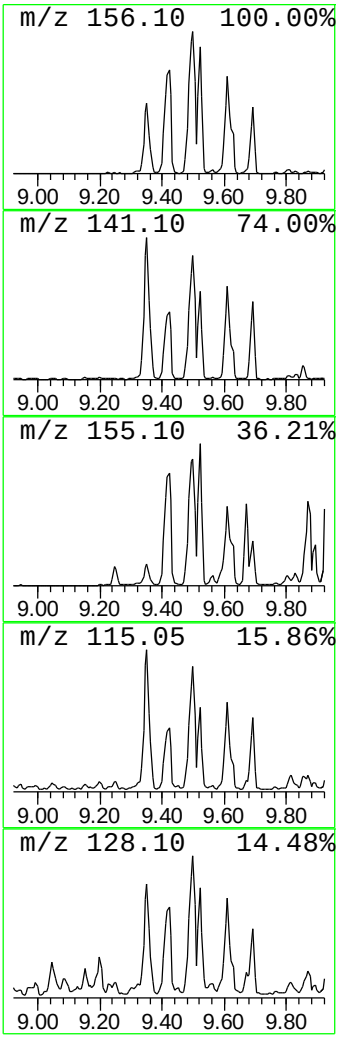
****

Peak Number 3 Naphthalene, 1,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	67.05 ng	6864210	Acenaphthene-d10	9.83

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





Library Search Compound Report

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Acq On : 17 Dec 2018 22:17
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Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

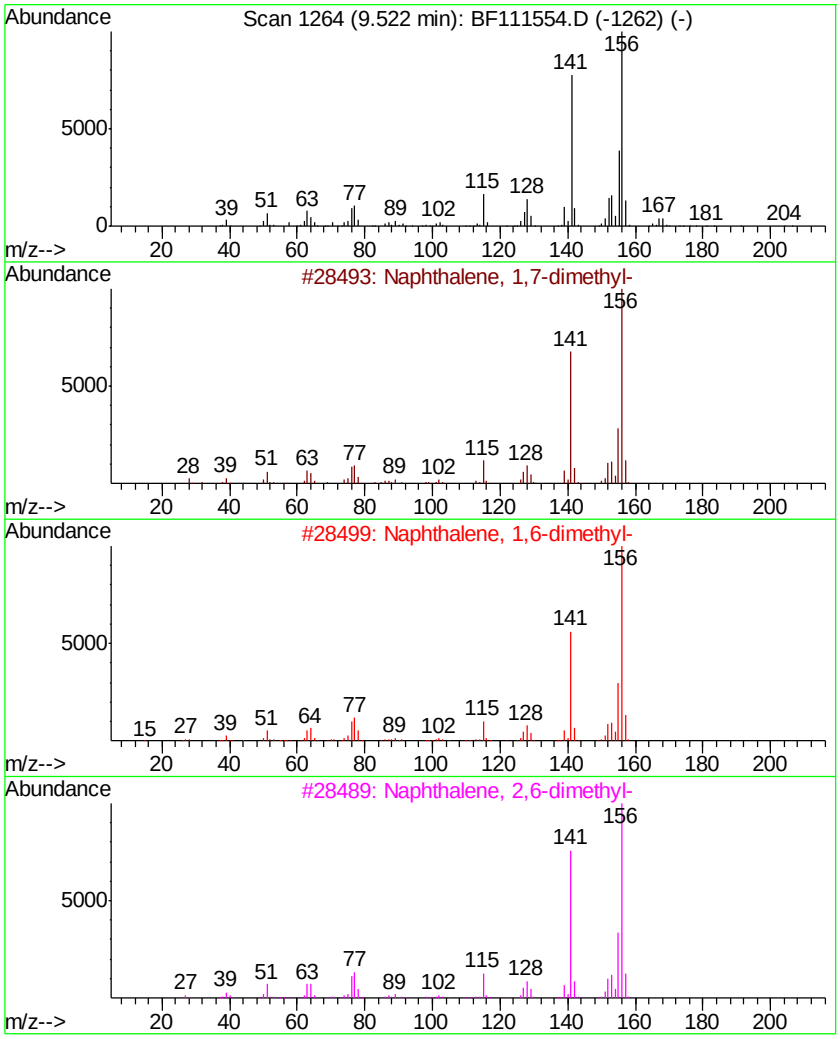
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

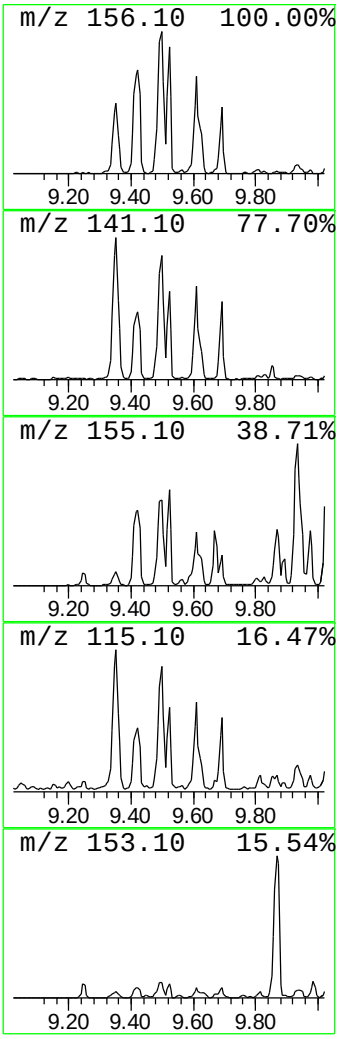
****

Peak Number 5 Naphthalene, 1,7-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	46.55 ng	4765570	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96





Library Search Compound Report

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Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

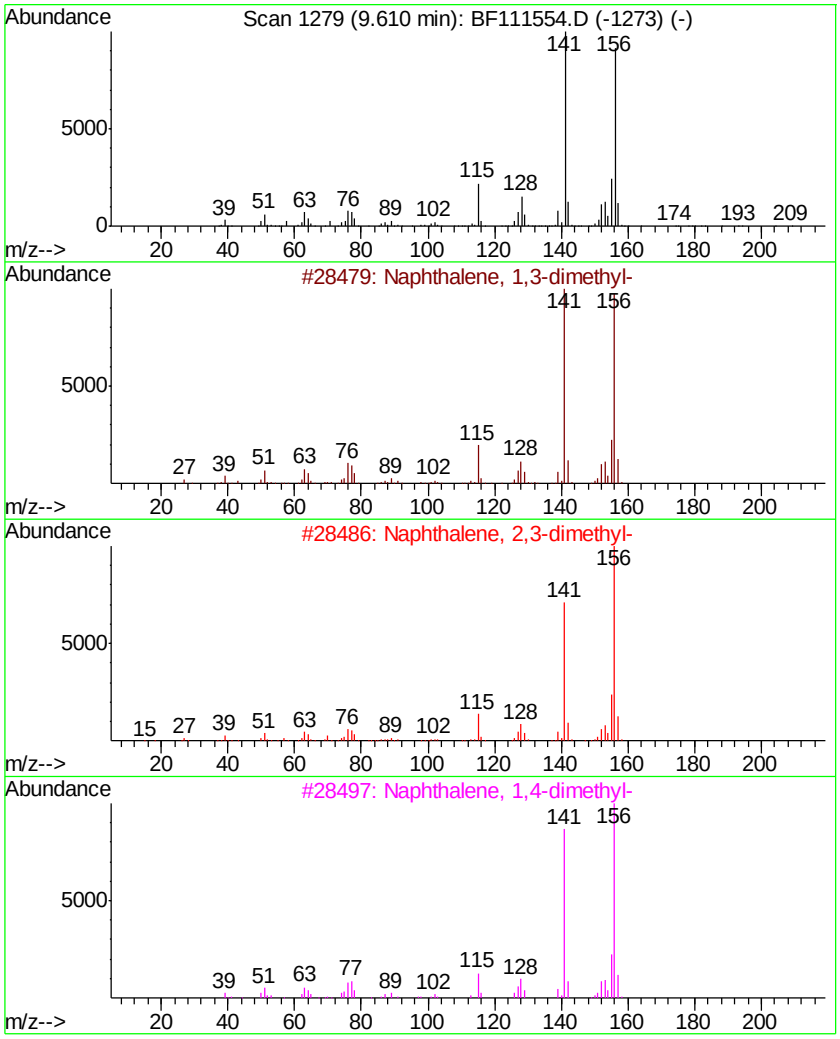
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

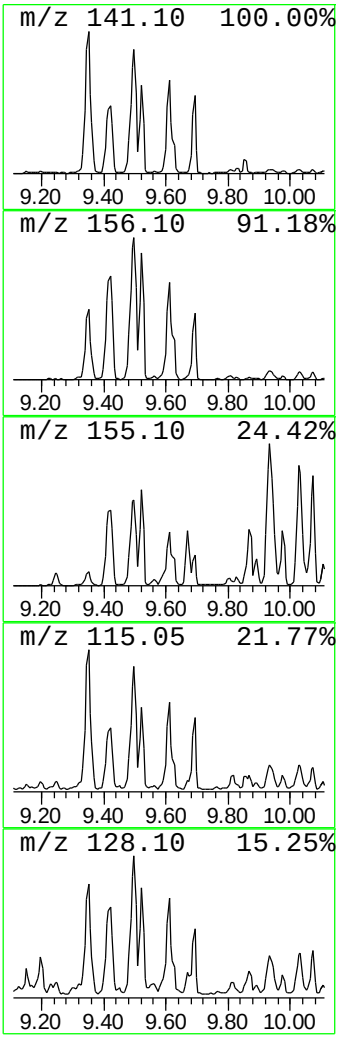
****

Peak Number 6 Naphthalene, 1,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.61	58.60 ng	5999790	Acenaphthene-d10	9.83

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

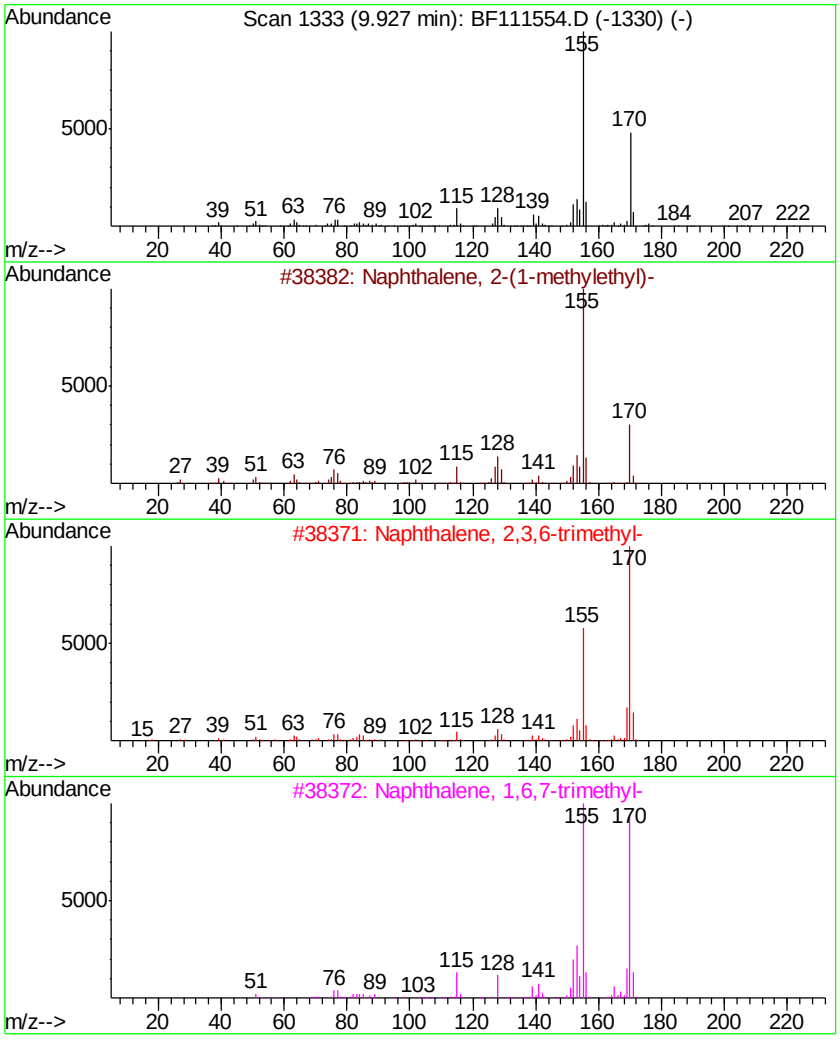
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

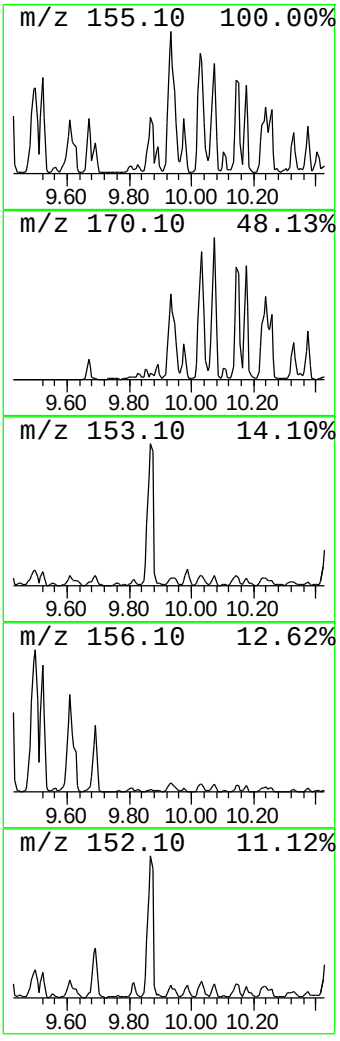
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Naphthalene, 2-(1-methyleth... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.93	32.32 ng	3309310	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	95
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	86
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	86
5	2-Naphthyl methyl ketone	170	C12H10O	000093-08-3	72





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Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

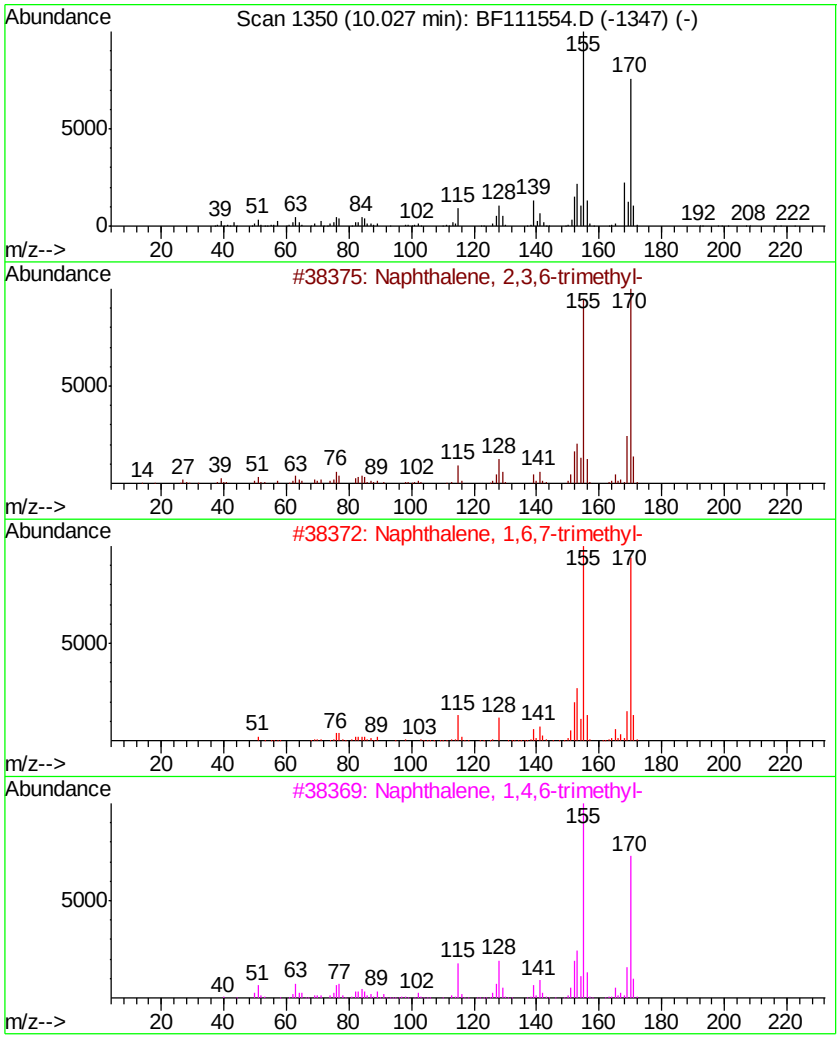
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

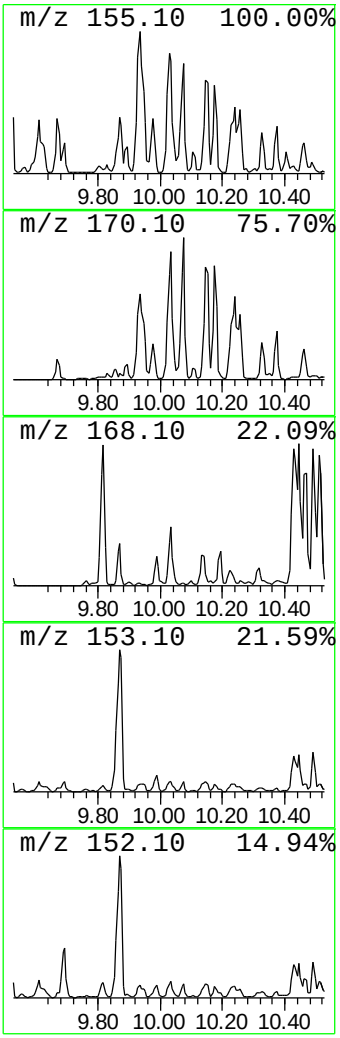
****

Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	30.50 ng	3122610	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	90
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	74





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Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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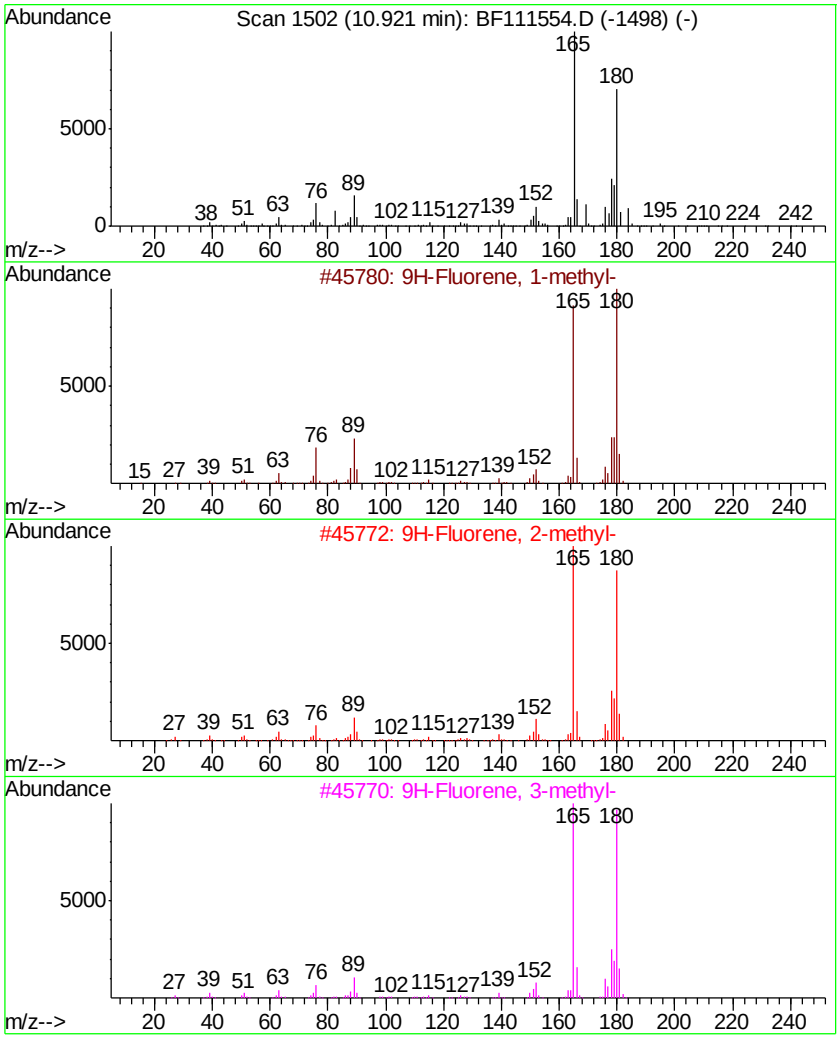
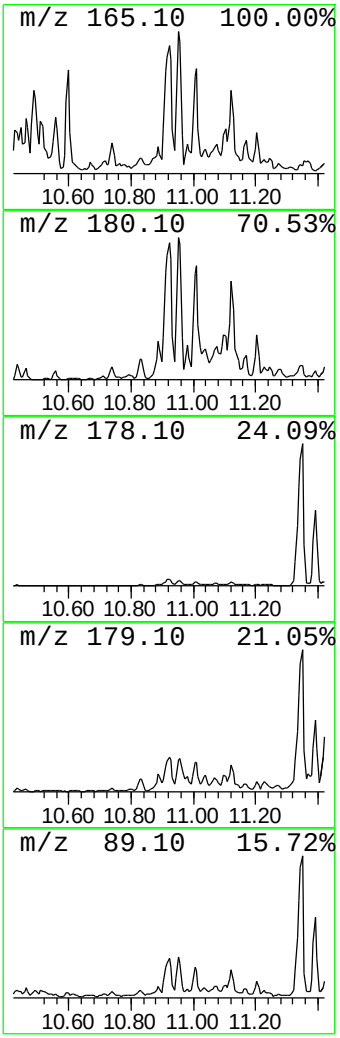
Peak Number 10 9H-Fluorene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	48.73 ng	2998450	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	89
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	86
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83
5	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	74





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Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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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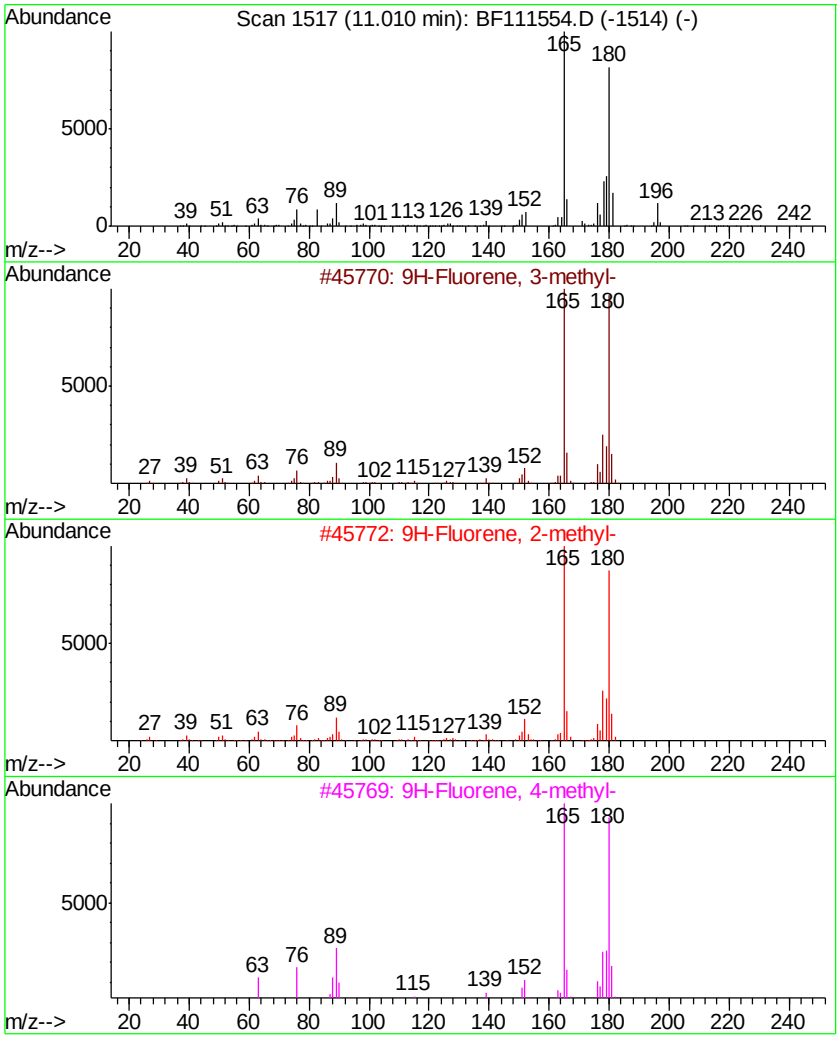
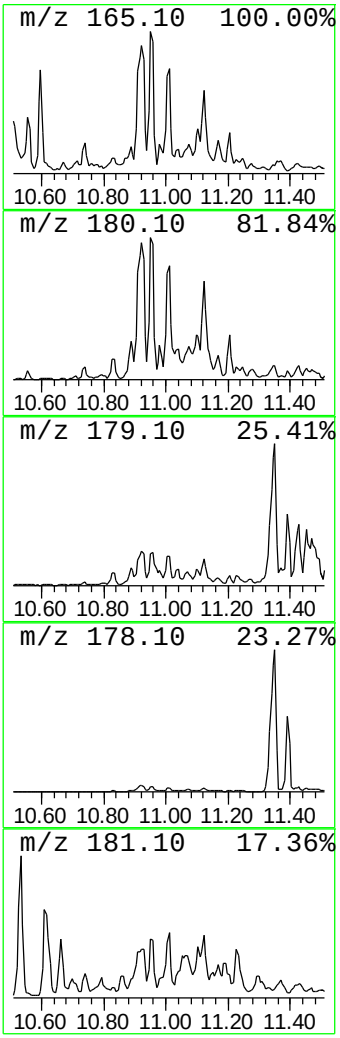
Peak Number 12 9H-Fluorene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.01	25.39 ng	1562120	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	91
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	91
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	81





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Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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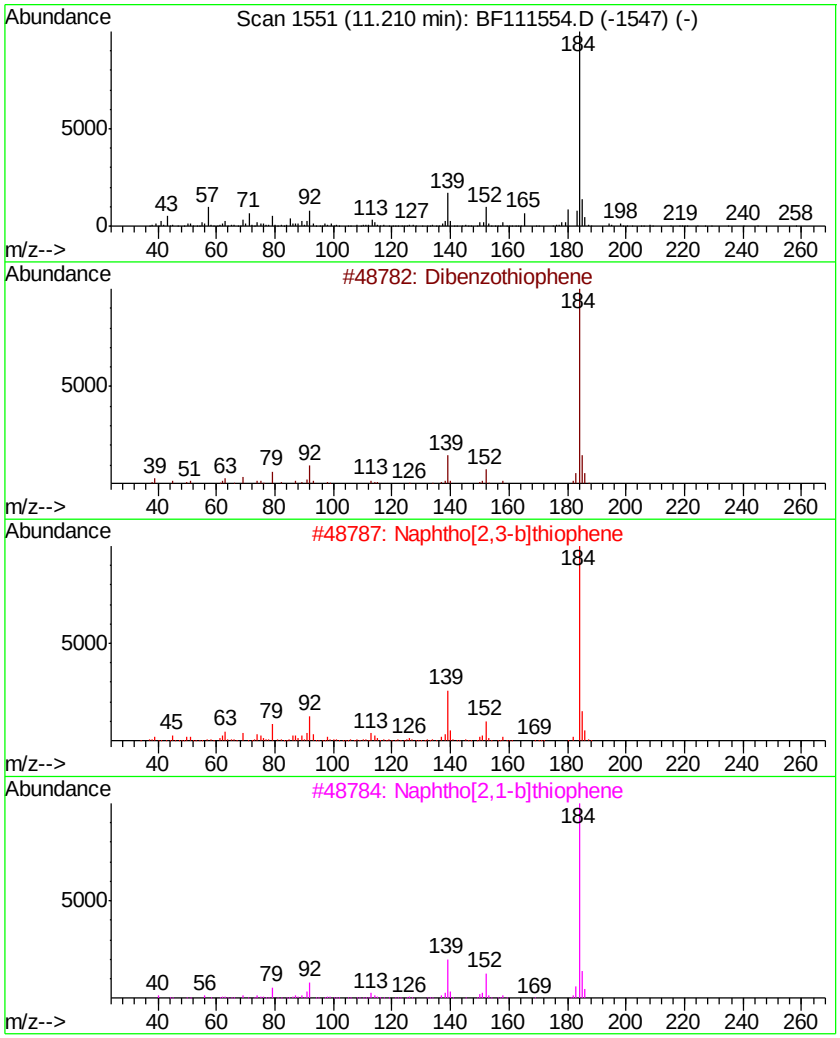
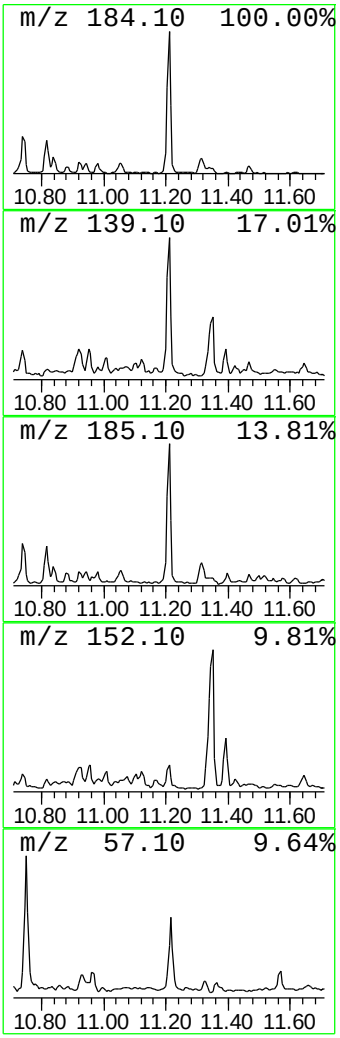
Peak Number 13 Dibenzothiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	41.08 ng	2527690	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





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Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

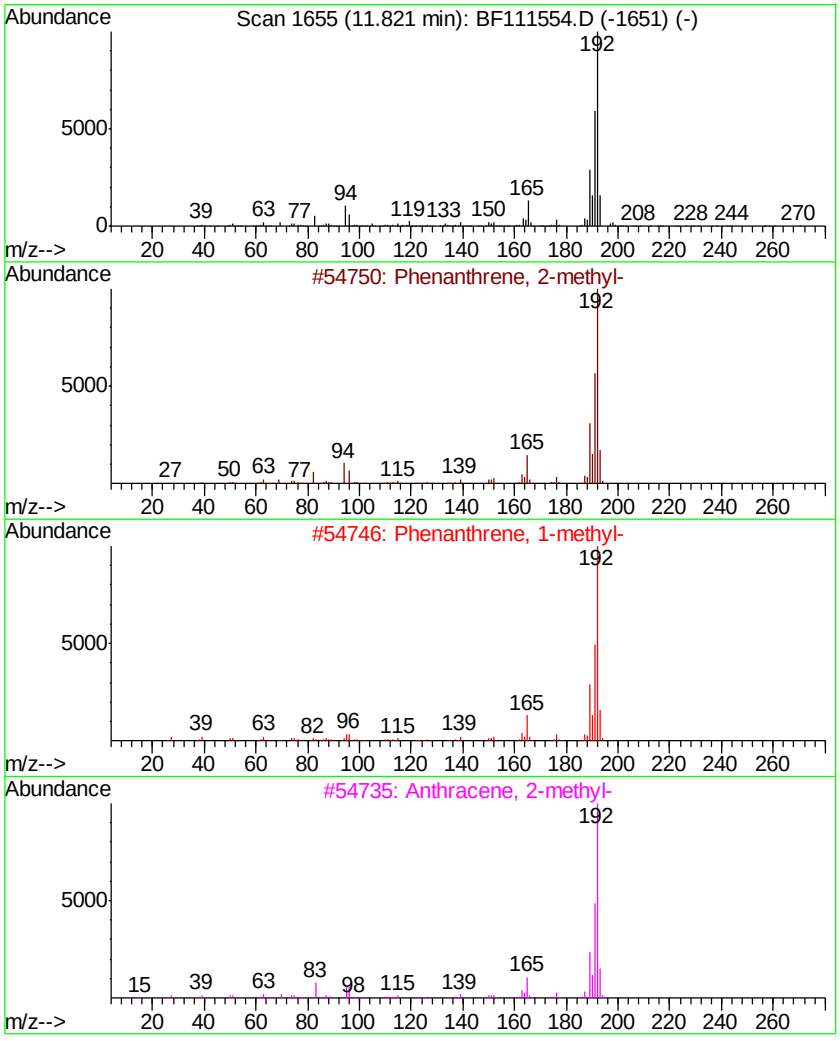
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

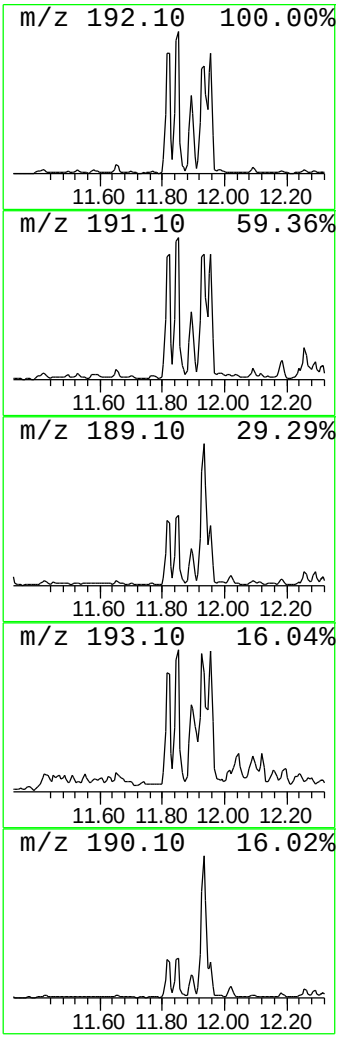
****

Peak Number 14 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	57.68 ng	3549170	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

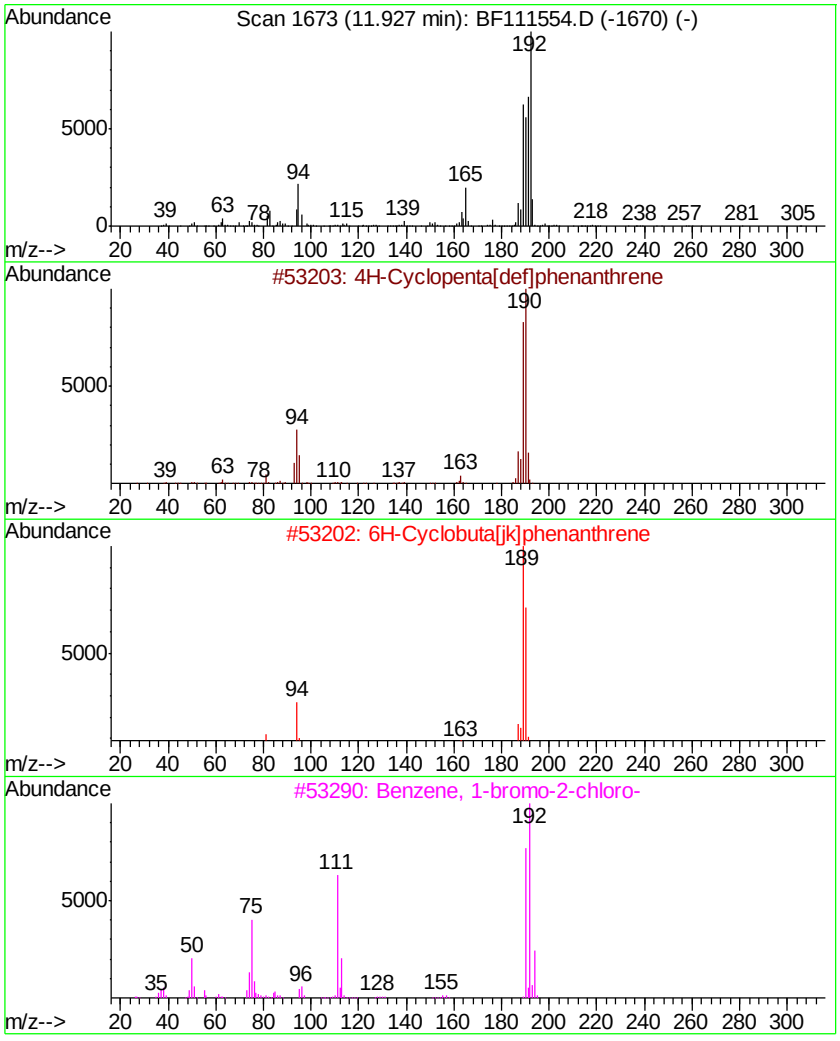
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

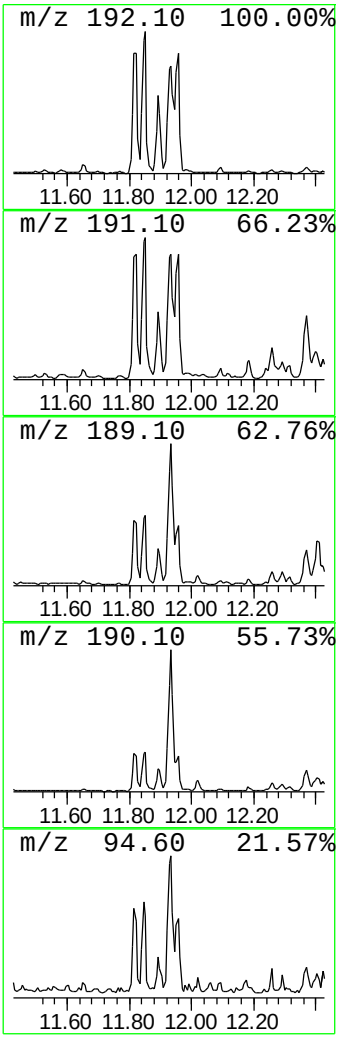
****

Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	87.18 ng	5364620	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	43
4	Benzene, 1-bromo-4-chloro-	190	C6H4BrCl	000106-39-8	43
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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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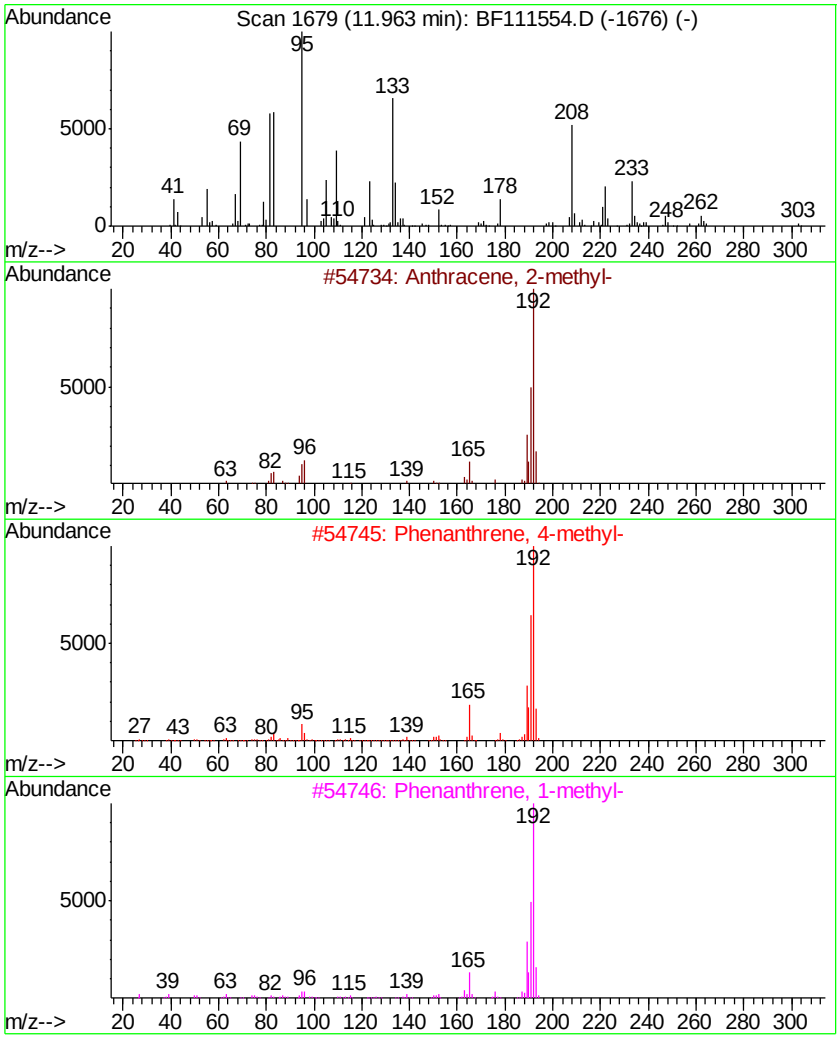
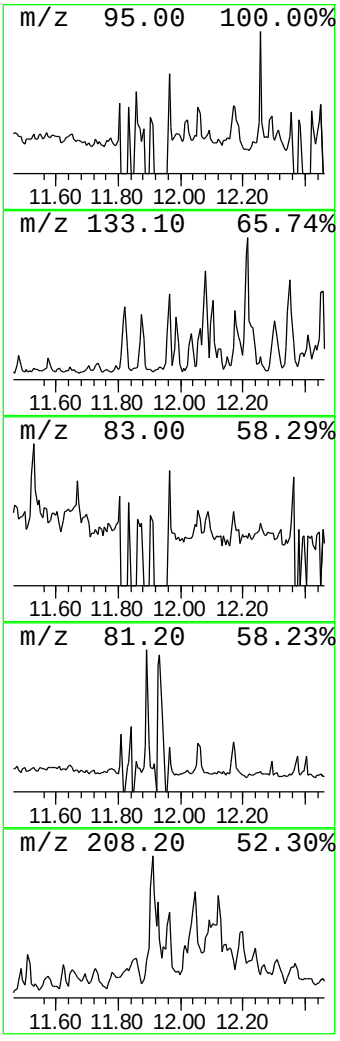
Peak Number 18 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	40.57 ng	2496620	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81





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Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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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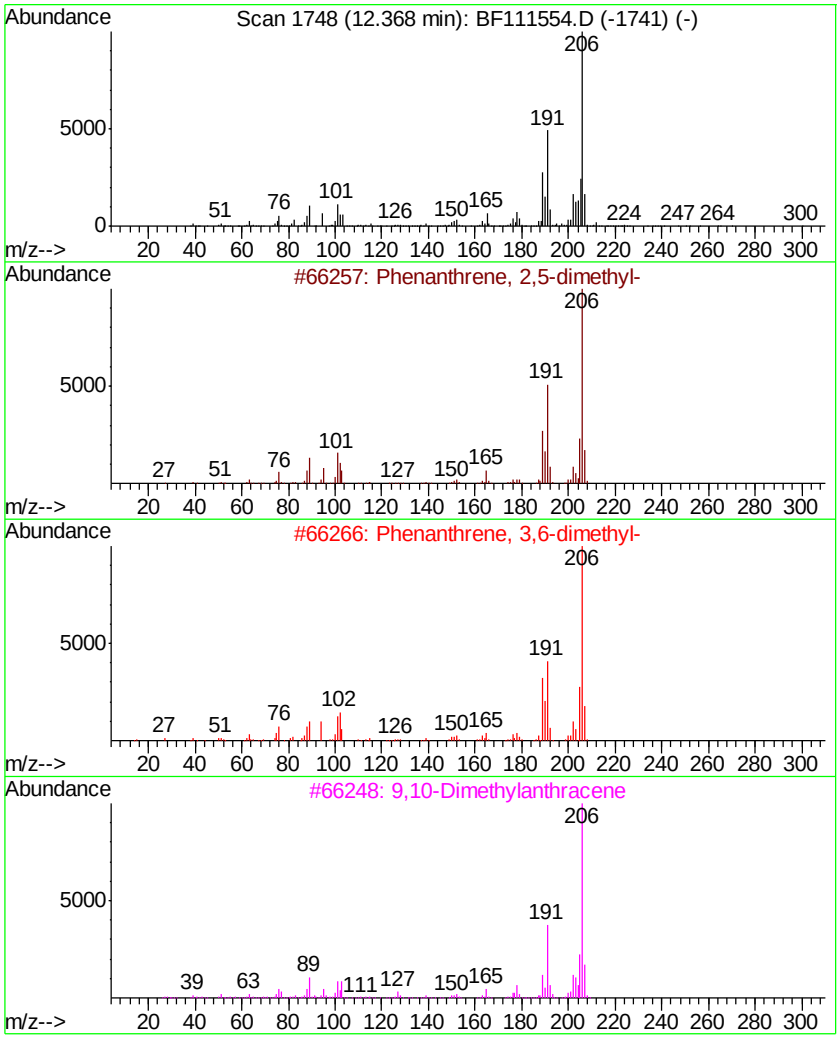
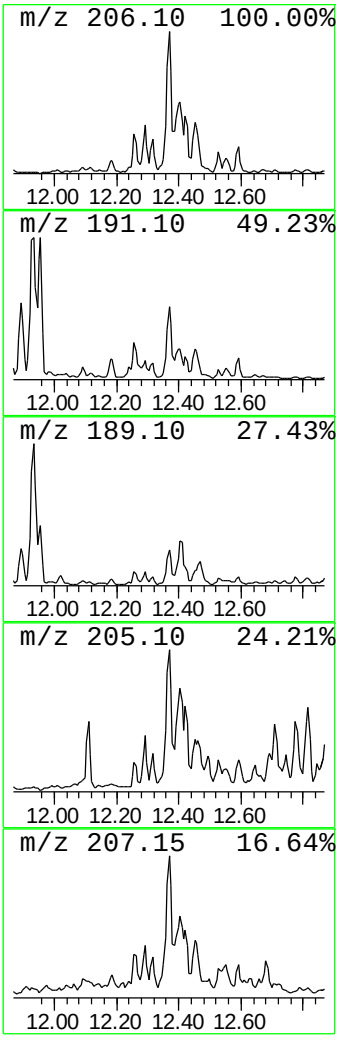
Peak Number 19 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	55.76 ng	3430770	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	83





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Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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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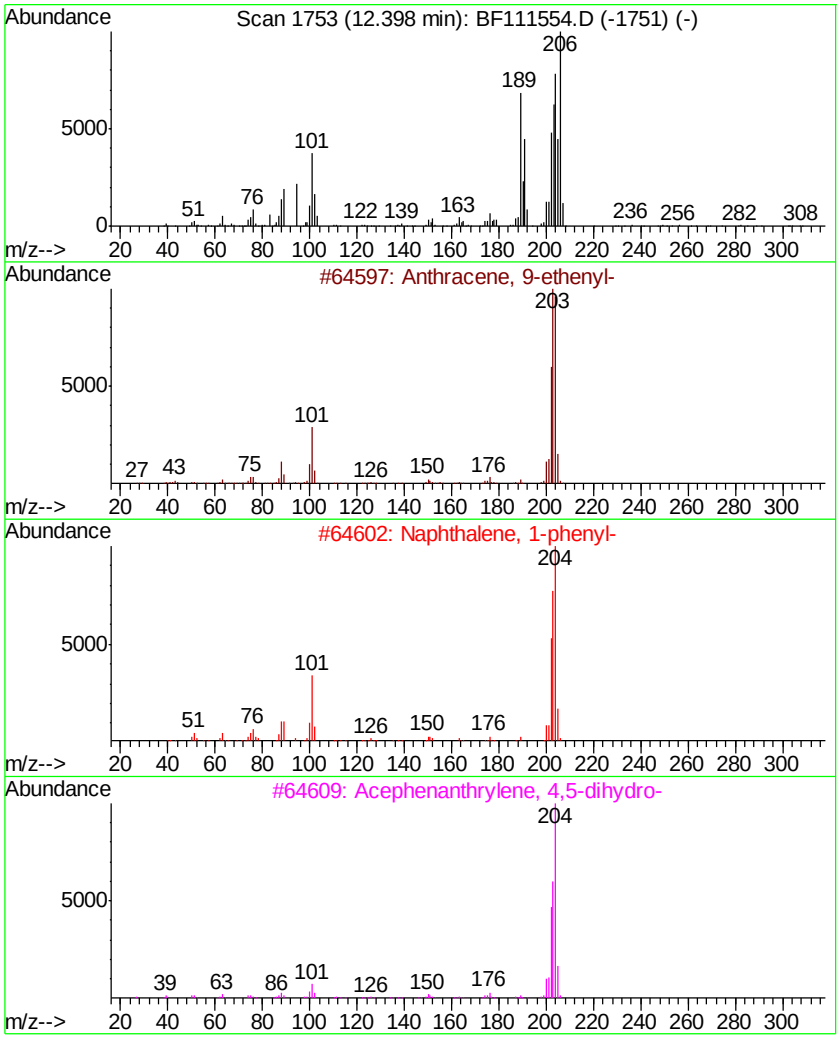
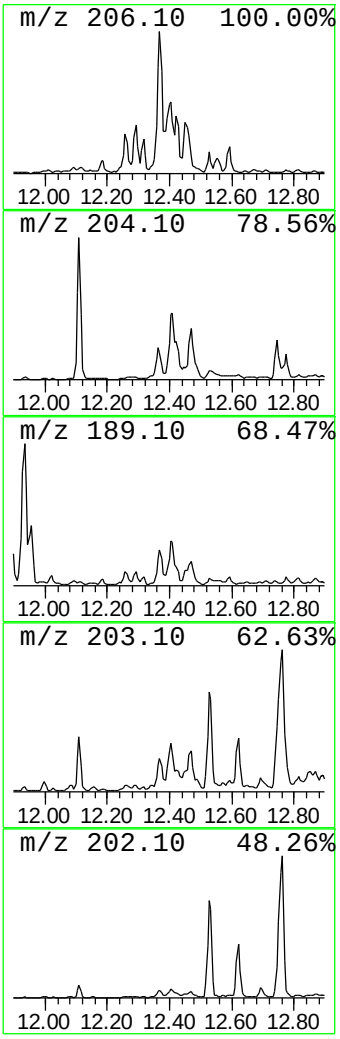
Peak Number 20 unknown12.40 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	32.28 ng	1986080	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	48
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	45
3	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	42
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121718\
Data File : BF111554.D
Acq On : 17 Dec 2018 22:17
Operator : JU/SJ
Sample : J6403-21 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.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
Benzene, 1-methyl...	7.82	27.2	ng	3766670	2	8.07	2773540	20.0
Naphthalene, 1-et...	9.35	71.4	ng	7312000	3	9.83	2047630	20.0
Naphthalene, 1,5-...	9.42	67.0	ng	6864210	3	9.83	2047630	20.0
Naphthalene, 1,7-...	9.52	46.5	ng	4765570	3	9.83	2047630	20.0
Naphthalene, 1,3-...	9.61	58.6	ng	5999790	3	9.83	2047630	20.0
Naphthalene, 2-(1...	9.93	32.3	ng	3309310	3	9.83	2047630	20.0
Naphthalene, 2,3,...	10.03	30.5	ng	3122610	3	9.83	2047630	20.0
9H-Fluorene, 1-me...	10.92	48.7	ng	2998450	4	11.32	1230640	20.0
9H-Fluorene, 3-me...	11.01	25.4	ng	1562120	4	11.32	1230640	20.0
Dibenzothiophene	11.21	41.1	ng	2527690	4	11.32	1230640	20.0
Phenanthrene, 1-m...	11.82	57.7	ng	3549170	4	11.32	1230640	20.0
4H-Cyclopenta[def...	11.93	87.2	ng	5364620	4	11.32	1230640	20.0
Anthracene, 2-met...	11.96	40.6	ng	2496620	4	11.32	1230640	20.0
Phenanthrene, 2,5...	12.37	55.8	ng	3430770	4	11.32	1230640	20.0
unknown12.40	12.40	32.3	ng	1986080	4	11.32	1230640	20.0