LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-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-BF011619.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	5.481	573	577	588	rBV	2905454	2769156	55.52%	2.250%
2	6.492	745	749	760	rBV	3119623	2954127	59.23%	2.400%
3	6.628	768	772	775	rBV	3659892	3133406	62.82%	2.546%
4	6.851	806	810	818	rBV	1990522	1641147	32.90%	1.333%
5	7.010	833	837	840	rBV	2998419	2526379	50.65%	2.053%
6	7.410	898	905	910	rBV	2127151	1874741	37.59%	1.523%
7	7.875	978	984	989	rBV3	157481	274454	5.50%	0.223%
8	8.133	1023	1028	1030	rBV	2370174	2104032	42.18%	1.709%
9	8.157	1030	1032	1035	rVB	992935	750302	15.04%	0.610%
10	8.851	1146	1150	1153	rVV	2411523	2173485	43.57%	1.766%
11	8.945	1161	1166	1170	rBV	2541367	2292388	45.96%	1.862%
12	9.210	1206	1211	1214	rBV	4125803	3499553	70.16%	2.843%
13	9.404	1242	1244	1250	rVB	574756	684226	13.72%	0.556%
14	9.480	1251	1257	1260	rBV	1856368	2468976	49.50%	2.006%
15	9.551	1264	1269	1271	rBV	3010965	2949784	59.14%	2.397%
16	9.575	1271	1273	1276	rVB	2053756	1541236	30.90%	1.252%
17	9.598	1276	1277	1282	rVB2	340144	315559	6.33%	0.256%
18	9.669	1285	1289	1290	rBV	1303474	1242707	24.91%	1.010%
19	9.751	1297	1303	1307	rBV	1333639	1209225	24.24%	0.982%
20	9.869	1320	1323	1324	rBV	564976	452978	9.08%	0.368%
21	9.892	1324	1327	1329	rVV	2211312	1979646	39.69%	1.608%
22	9.922	1329	1332	1335	rVV2	993287	901469	18.07%	0.732%
23	9.992	1341	1344	1349	rBV2	676623	936269	18.77%	0.761%
24	10.033	1349	1351	1354	rVV2	266858	309639	6.21%	0.252%
25	10.092	1357	1361	1365	rVV	1294557	1327220	26.61%	1.078%
26	10.133	1365	1368	1371	rVB	1253414	1019108	20.43%	0.828%
27	10.204	1376	1380	1383	rBV	1097444	1146204	22.98%	0.931%
28	10.233	1383	1385	1388	rVB	779189	597428	11.98%	0.485%
29	10.298	1391	1396	1397	rBV2	717002	981690	19.68%	0.798%
30	10.316	1397	1399	1402	rVB	872455	666186	13.36%	0.541%
31	10.386	1409	1411	1413	rVV	575468	429594	8.61%	0.349%
32	10.433	1416	1419	1425	rVV2	1790860	2085514	41.81%	1.694%
33	10.504	1425	1431	1432	rVV3	484113	674497	13.52%	0.548%
34	10.522	1432	1434	1436	rVV2	473267	415720	8.33%	0.338%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-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-BF011619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.551	1436	1439	1441	rVV2	369260	393191	7.88%	0.319%
36	10.592	1442	1446	1450	rVB3	444633	641133	12.85%	0.521%
37	10.680	1455	1461	1464	rVV2	1934609	2092959	41.96%	1.700%
38	10.710	1464	1466	1472	rVB2	194444	299996	6.01%	0.244%
39	10.804	1477	1482	1488	rVB2	590529	703897	14.11%	0.572%
40	10.880	1492	1495	1497	rBV	327690	295535	5.92%	0.240%
41	10.986	1508	1513	1515	rBV	1154134	1455799	29.19%	1.183%
42	11.016	1515	1518	1521	rVB	1019529	812644	16.29%	0.660%
43	11.069	1524	1527	1530	rVB	854395	709399	14.22%	0.576%
44	11.180	1544	1546	1550	rVB2	216249	216745	4.35%	0.176%
45	11.227	1551	1554	1558	rVV3	267512	390260	7.82%	0.317%
46	11.274	1558	1562	1567	rVB	746978	824737	16.53%	0.670%
47	11.374	1576	1579	1581	rBV	1559592	1521545	30.50%	1.236%
48	11.404	1581	1584	1587	rVV	5063260	4235238	84.91%	3.441%
49	11.451	1590	1592	1595	rVV	1119239	872167	17.49%	0.709%
50	11.486	1595	1598	1601	rVV2	675504	837579	16.79%	0.680%
51	11.516	1601	1603	1604	rVV	432292	338262	6.78%	0.275%
52	11.533	1604	1606	1612	rVV2	379091	613233	12.29%	0.498%
53	11.616	1616	1620	1625	rBV3	280398	575038	11.53%	0.467%
54	11.668	1626	1629	1631	rVB2	299513	281248	5.64%	0.229%
55	11.710	1631	1636	1639	rBV2	848483	948043	19.01%	0.770%
56	11.792	1647	1650	1654	rVB	526046	573157	11.49%	0.466%
57	11.880	1661	1665	1667	rBV	2218001	2008471	40.27%	1.632%
58	11.910	1667	1670	1674	rVB	2663787	2296121	46.03%	1.865%
59	11.957	1674	1678	1680	rBV	885088	866177	17.37%	0.704%
60	11.992	1680	1684	1686	rVV	2636855	2730980	54.75%	2.219%
61	12.016	1686	1688	1693	rVB	2136412	1696864	34.02%	1.379%
62	12.110	1702	1704	1707	rVB2	366708	330709	6.63%	0.269%
63	12.174	1708	1715	1717	rBV	866635	1022348	20.50%	0.831%
64	12.304	1735	1737	1738	rBV	366967	293446	5.88%	0.238%
65	12.321	1738	1740	1743	rVV	544805	466467	9.35%	0.379%
66	12.357	1743	1746	1748	rVV	737240	638129	12.79%	0.518%
67	12.380	1748	1750	1752	rVB2	531956	406242	8.14%	0.330%
68	12.433	1755	1759	1761	rBV	1901299	2117559	42.45%	1.720%
69	12.468	1761	1765	1767	rVV3	1408216	1942264	38.94%	1.578%
70	12.527	1770	1775	1778	rBV2	592105	1095506	21.96%	0.890%
71	12.592	1783	1786	1789	rBV	3420241	2971465	59.57%	2.414%

LSC Area Percent Report

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Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-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-BF011619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.633	1791	1793	1795	rVV	425728	395075	7.92%	0.321%
73	12.657	1795	1797	1800	rVB2	539414	443141	8.88%	0.360%
74	12.745	1809	1812	1815	rBV3	405967	462663	9.28%	0.376%
75	12.827	1820	1826	1831	rBV	4048852	4987943	100.00%	4.052%
76	12.880	1831	1835	1838	rVB2	618218	643037	12.89%	0.522%
77	12.915	1838	1841	1842	rBV3	210182	226991	4.55%	0.184%
78	12.957	1846	1848	1851	rBV	2525164	2156431	43.23%	1.752%
79	13.039	1858	1862	1869	rBV3	833344	1410290	28.27%	1.146%
80	13.098	1869	1872	1874	rBV2	429639	438790	8.80%	0.356%
81	13.127	1874	1877	1878	rVV2	663698	679519	13.62%	0.552%
82	13.151	1878	1881	1884	rVB	1557021	1502797	30.13%	1.221%
83	13.215	1890	1892	1895	rVB	999544	800593	16.05%	0.650%
84	13.257	1896	1899	1903	rBV	1246172	1073035	21.51%	0.872%
85	13.351	1912	1915	1917	rBV	1138162	946856	18.98%	0.769%
86	13.380	1917	1920	1923	rVV	1280631	1064742	21.35%	0.865%
87	13.639	1960	1964	1966	rBV2	490501	751899	15.07%	0.611%
88	13.721	1976	1978	1981	rBV	318874	283284	5.68%	0.230%
89	13.774	1982	1987	1989	rBV3	478804	874741	17.54%	0.711%
90	14.015	2024	2028	2031	rBV2	2363794	3391217	67.99%	2.755%
91	14.051	2031	2034	2037	rVB	1569244	1534464	30.76%	1.247%
92	14.409	2092	2095	2098	rVB	968134	829548	16.63%	0.674%
93	14.445	2099	2101	2104	rVB	580662	430371	8.63%	0.350%
94	14.486	2105	2108	2110	rBV3	435095	563361	11.29%	0.458%
95	14.533	2114	2116	2118	rBV	587592	504338	10.11%	0.410%
96	15.068	2204	2207	2214	rVB	760524	1311438	26.29%	1.065%
97	15.121	2214	2216	2220	rVB2	456261	507435	10.17%	0.412%
98	15.374	2256	2259	2264	rVB	576266	760168	15.24%	0.618%
99	15.433	2266	2269	2275	rVV	890906	1085503	21.76%	0.882%
100	15.498	2277	2280	2296	rVB3	1177801	2181818	43.74%	1.773%

Sum of corrected areas: 123084086

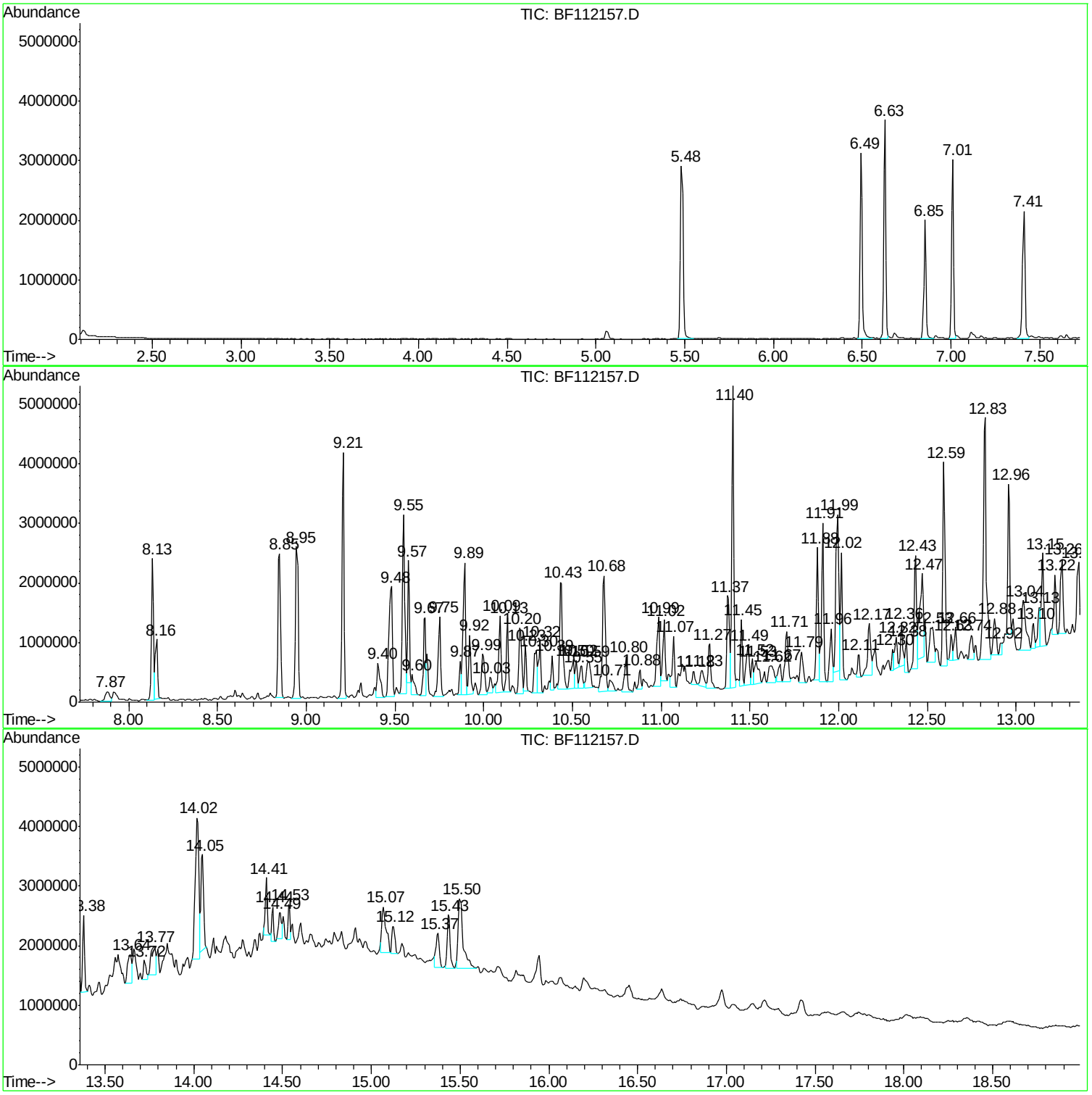
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

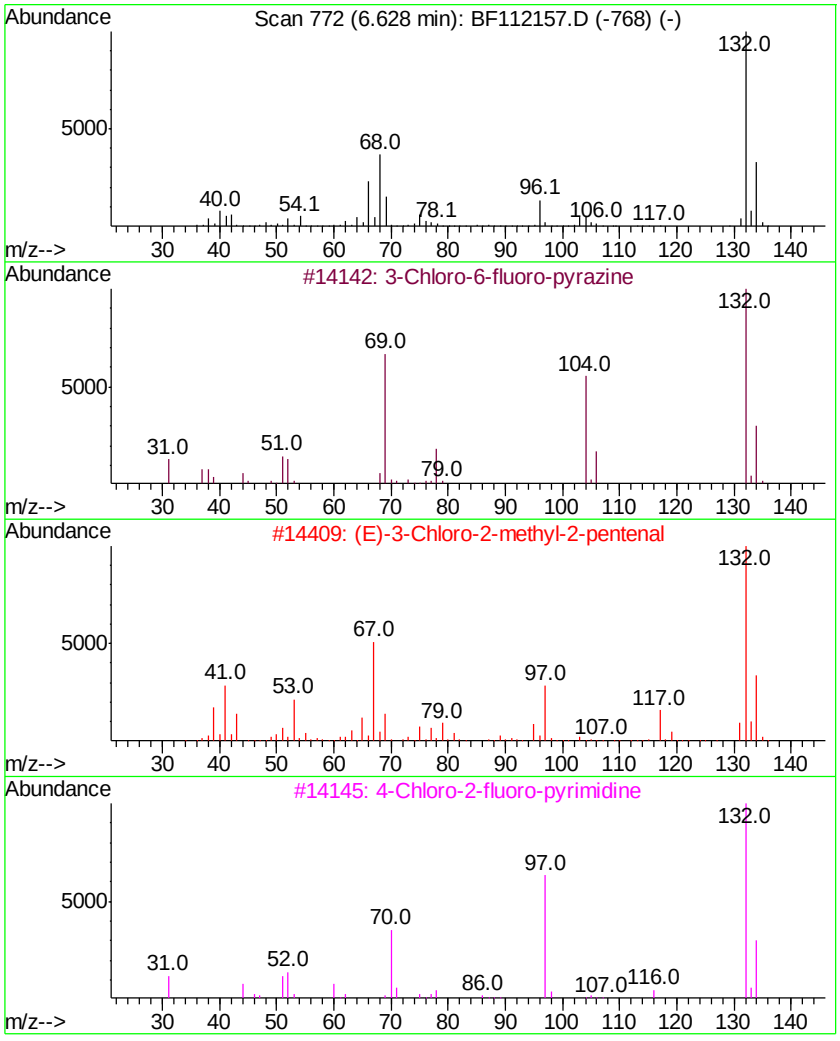
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

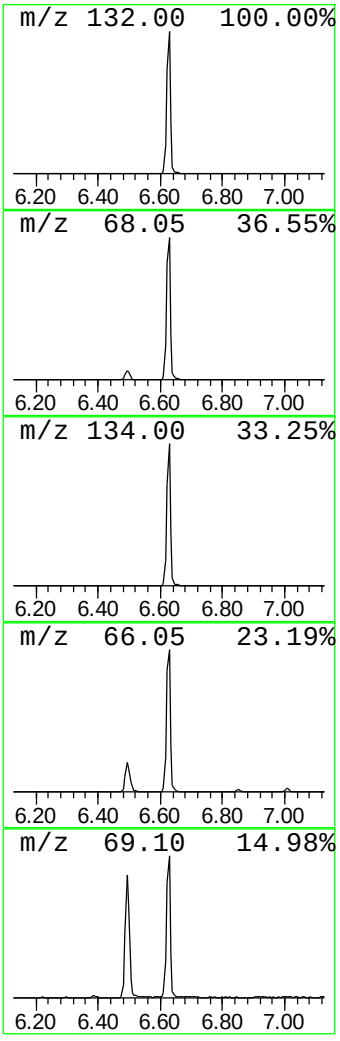
****

Peak Number 1 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	38.19 ng	3133410	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
5	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

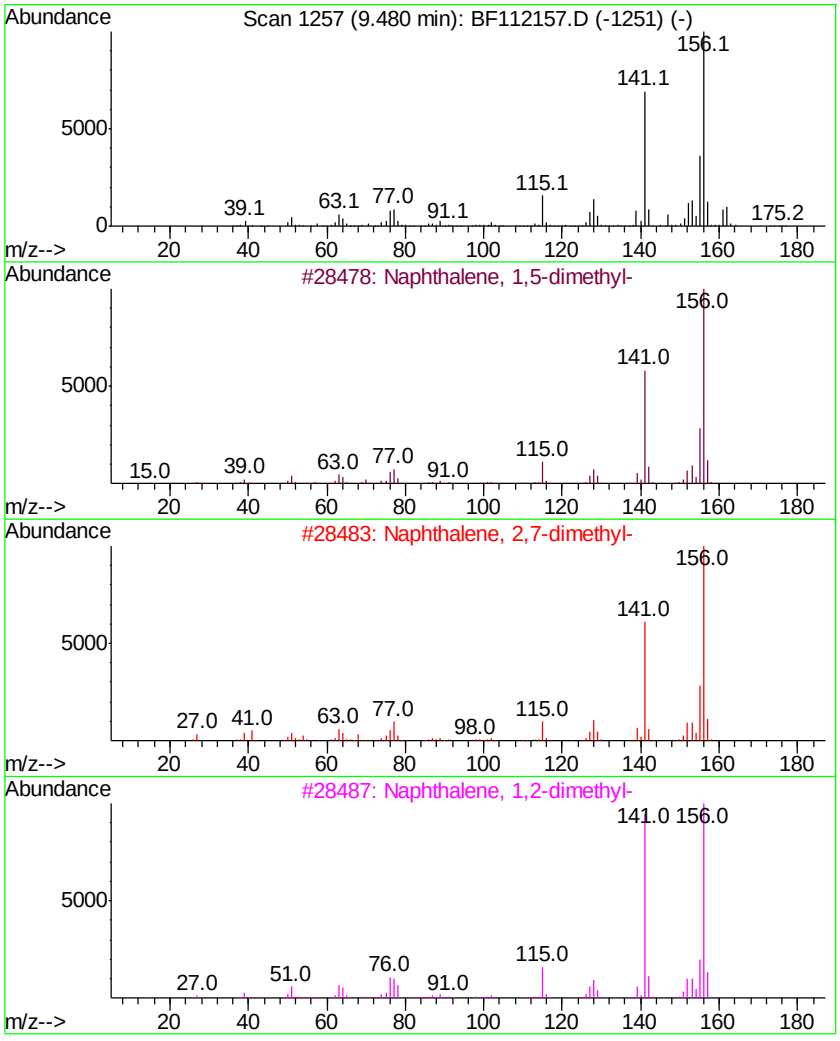
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

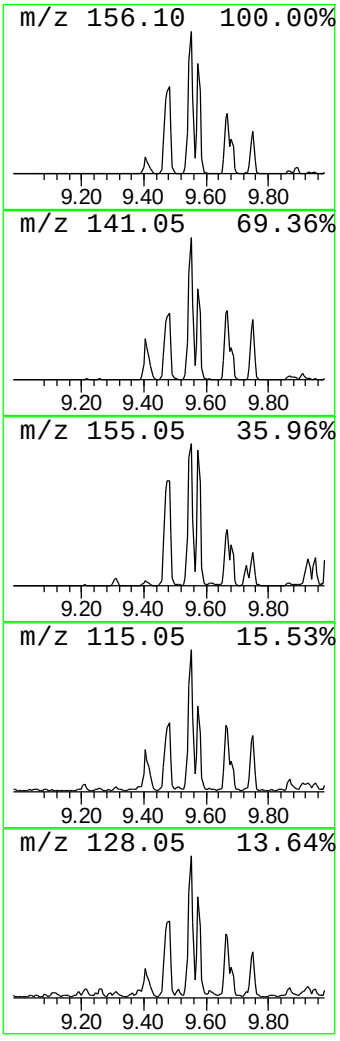
****

Peak Number 3 Naphthalene, 1,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.48	24.94 ng	2468980	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

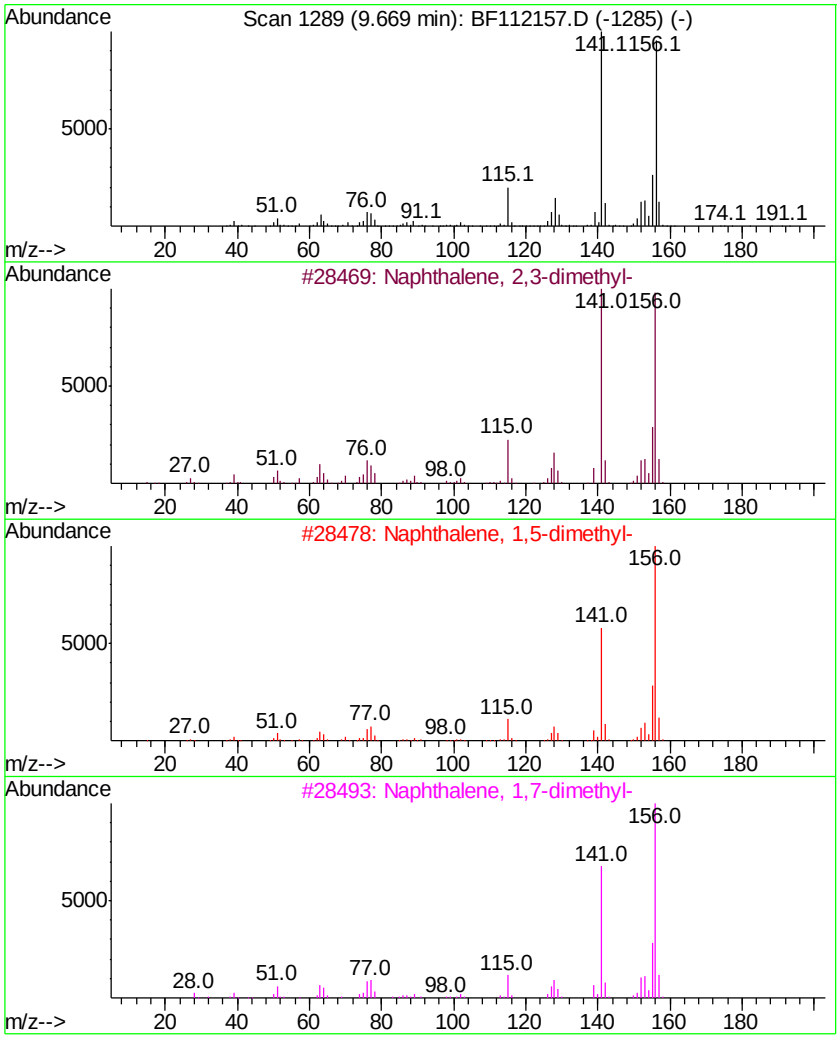
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

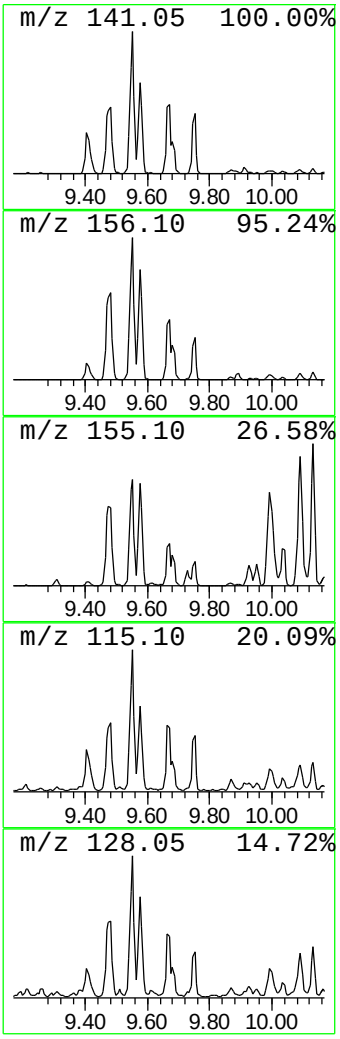
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.67	12.55 ng	1242710	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

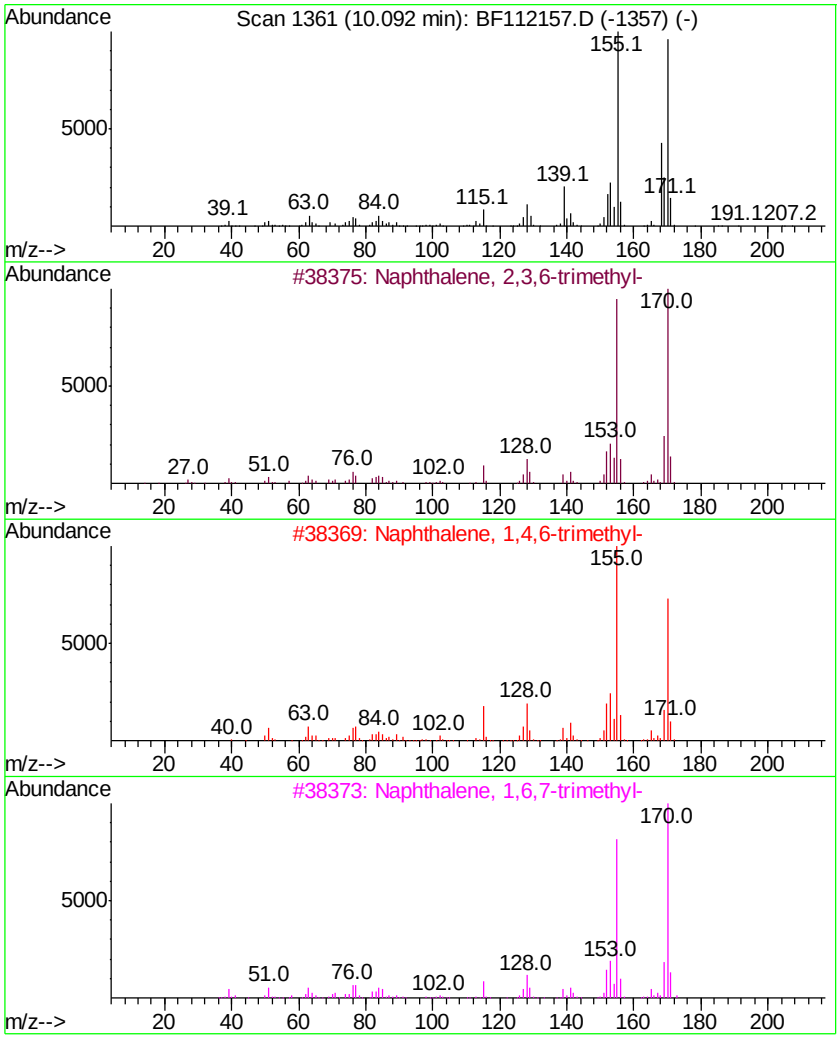
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

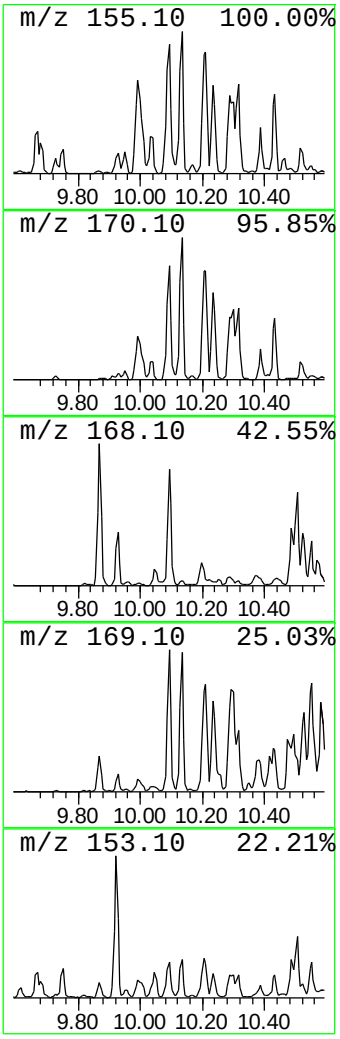
****

Peak Number 5 Naphthalene, 2,3,6-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.09	13.41 ng	1327220	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	89
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

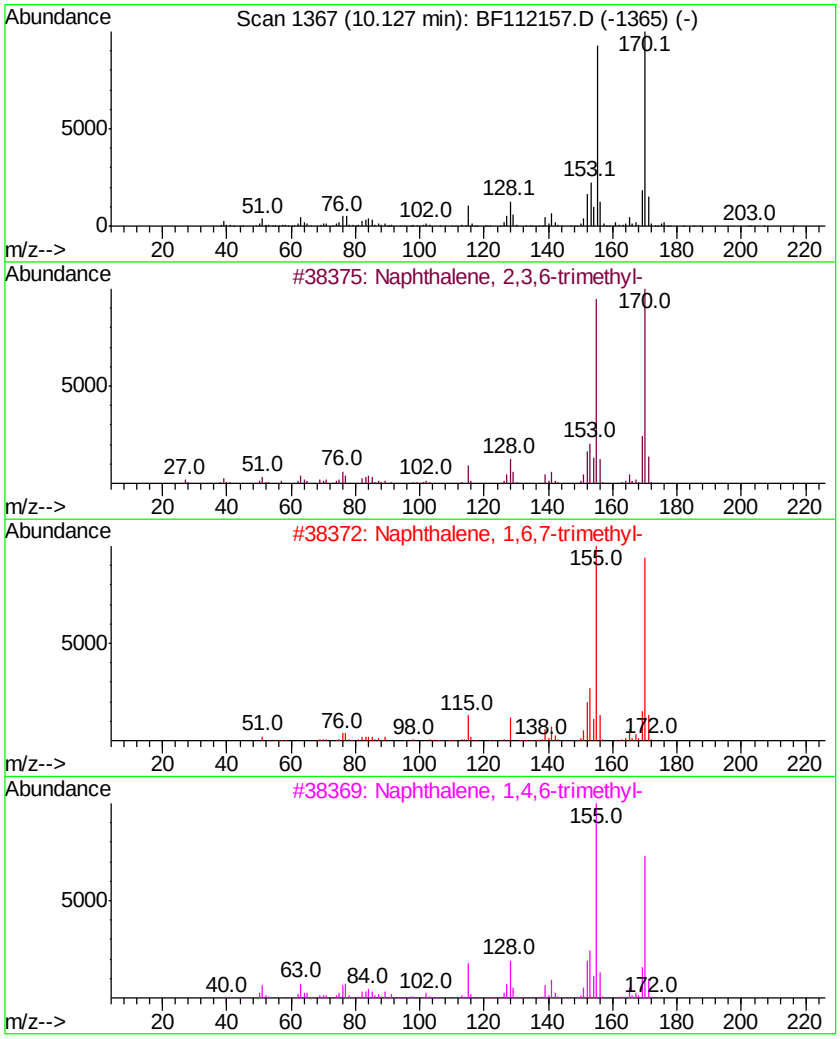
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

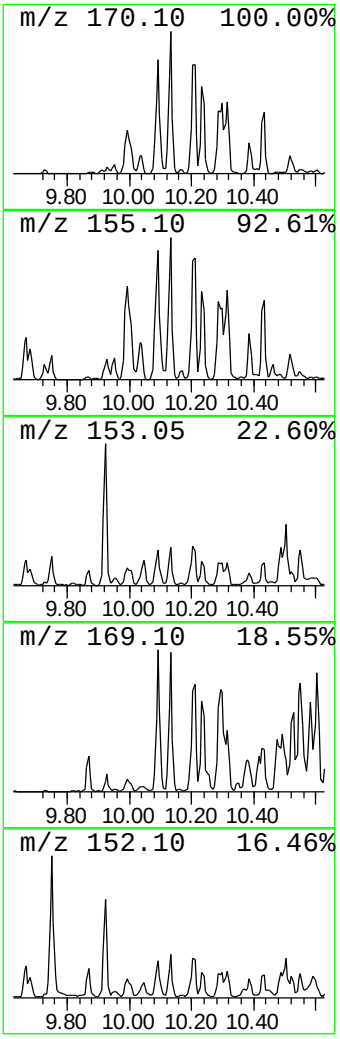
****

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.13	10.30 ng	1019110	Acenaphthene-d10	9.89

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	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
5	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	86





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Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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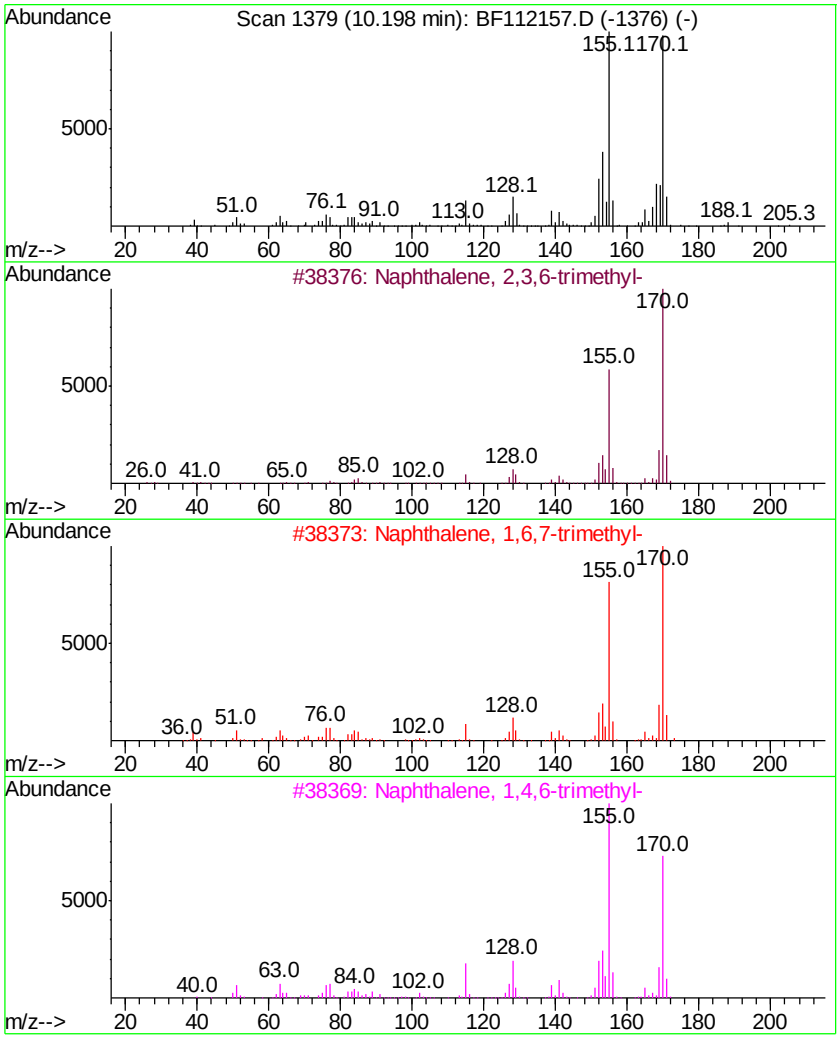
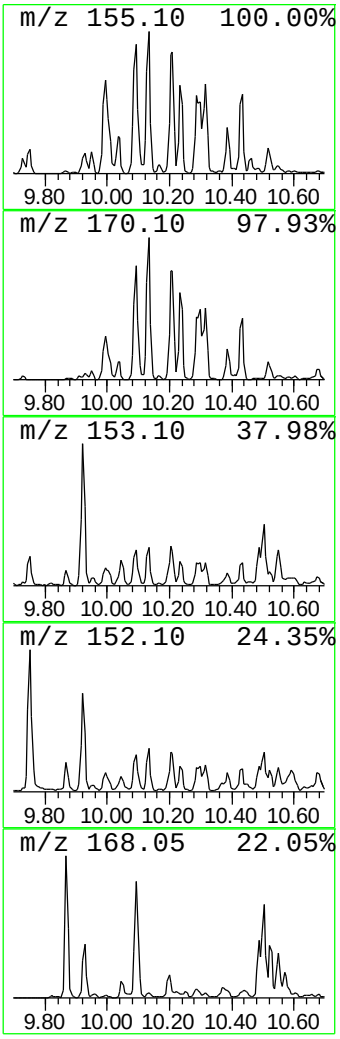
Peak Number 7 Naphthalene, 1,4,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.20	11.58 ng	1146200	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	91
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	90





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Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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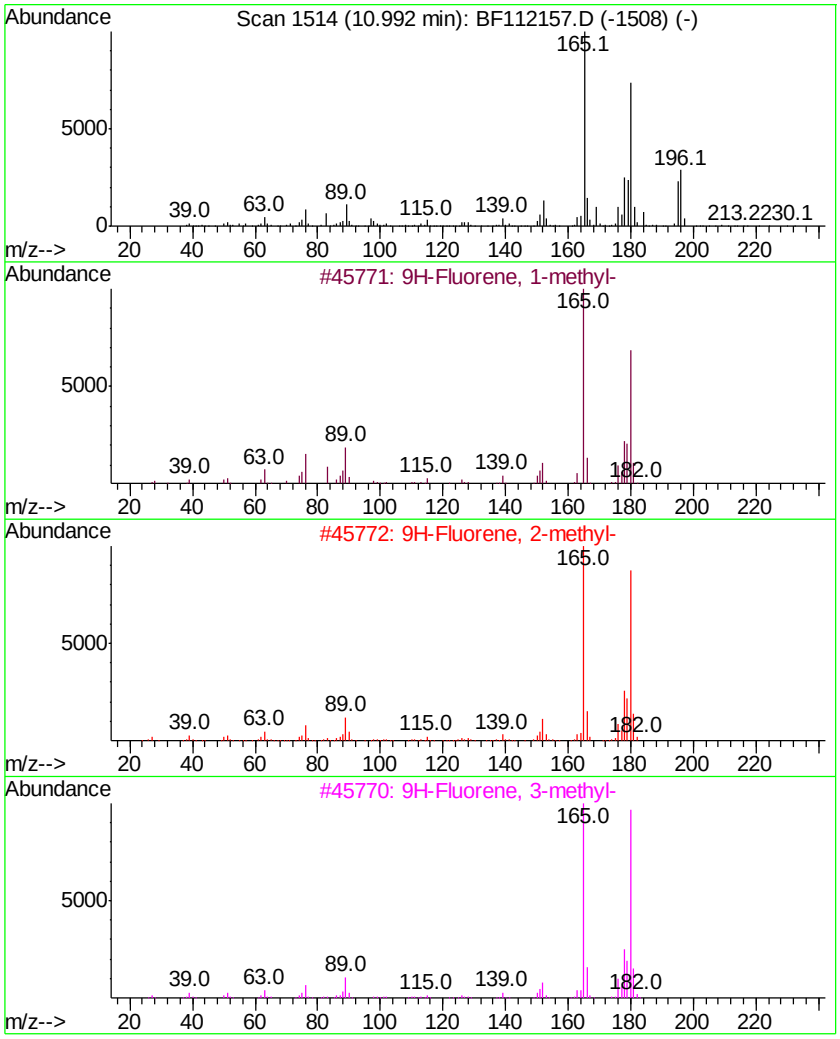
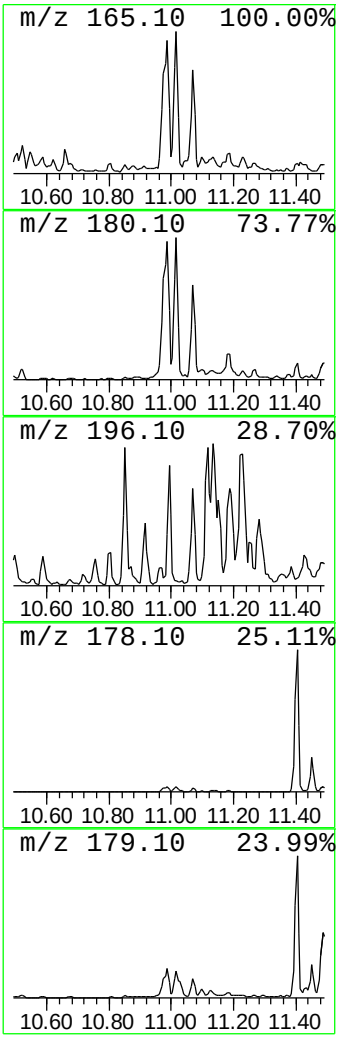
Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	19.14 ng	1455800	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76
5	(E)-Stilbene	180	C14H12	000103-30-0	64





Library Search Compound Report

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Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

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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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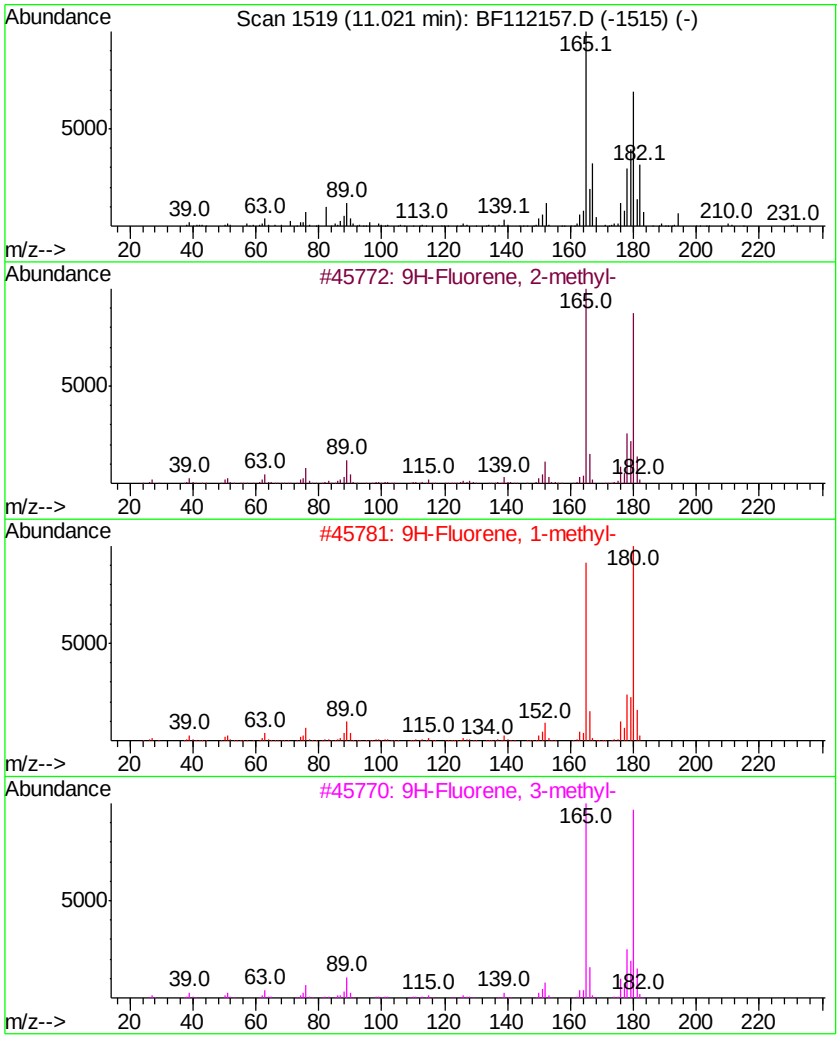
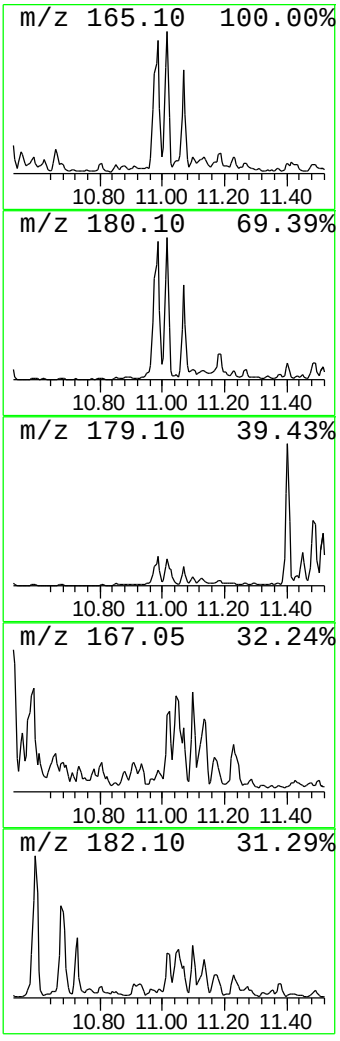
Peak Number 9 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	10.68 ng	812644	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
5	Thiophene, 2-[(trimethylsilyl)et...	180	C9H12SSi	040231-03-6	64





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Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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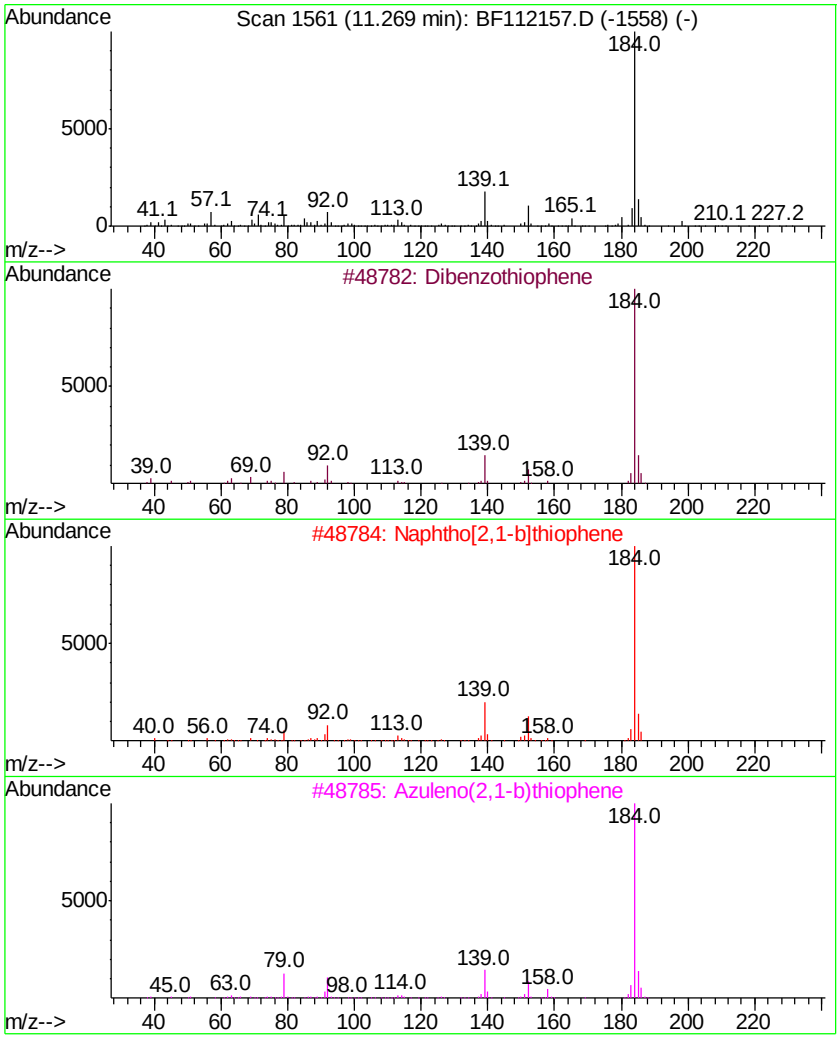
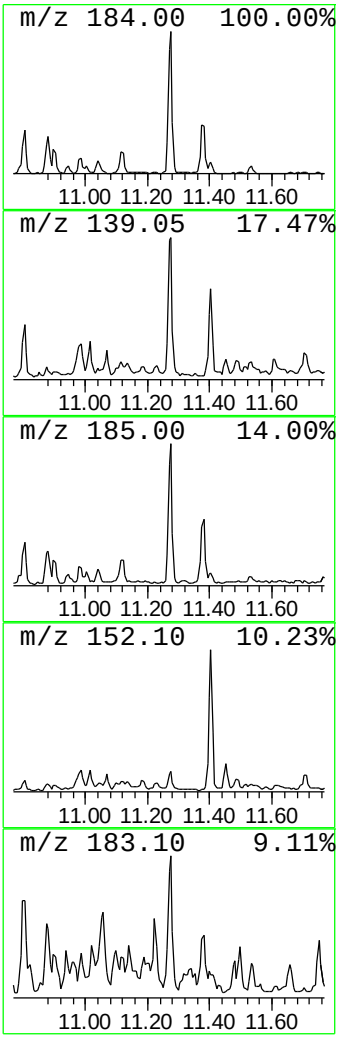
Peak Number 10 Dibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	10.84 ng	824737	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	80
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Library Search Compound Report

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Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

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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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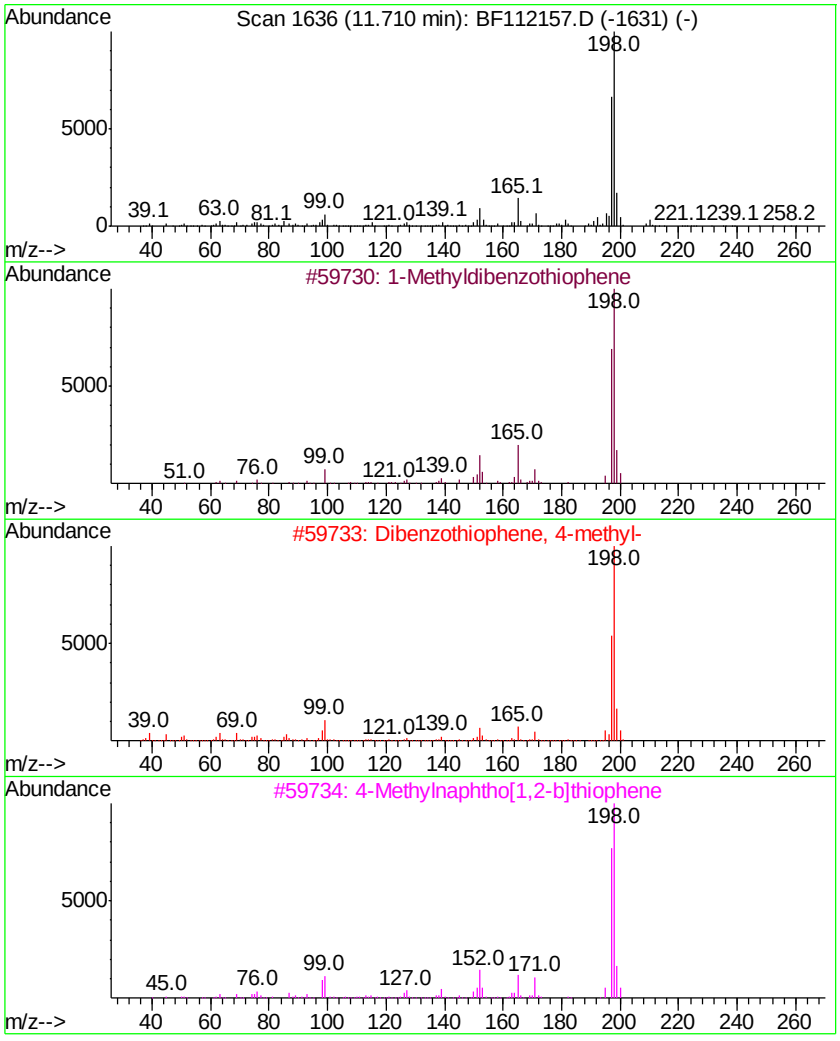
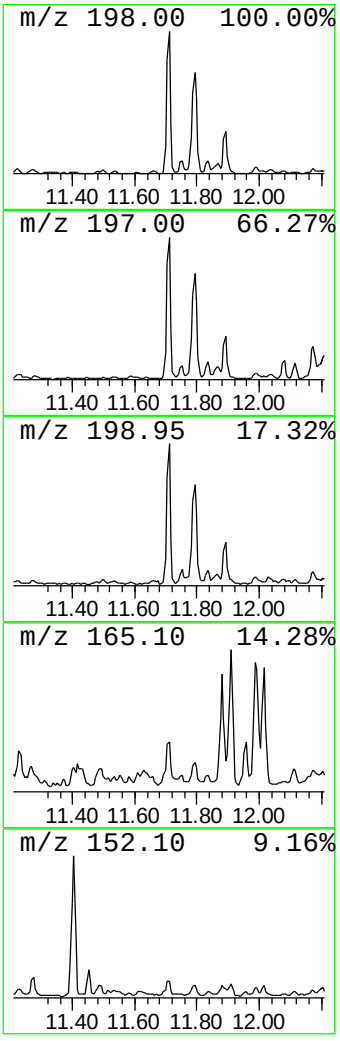
Peak Number 11 1-Methyldibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	12.46 ng	948043	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	95
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	93
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
5	Tacrine	198	C13H14N2	000321-64-2	64





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Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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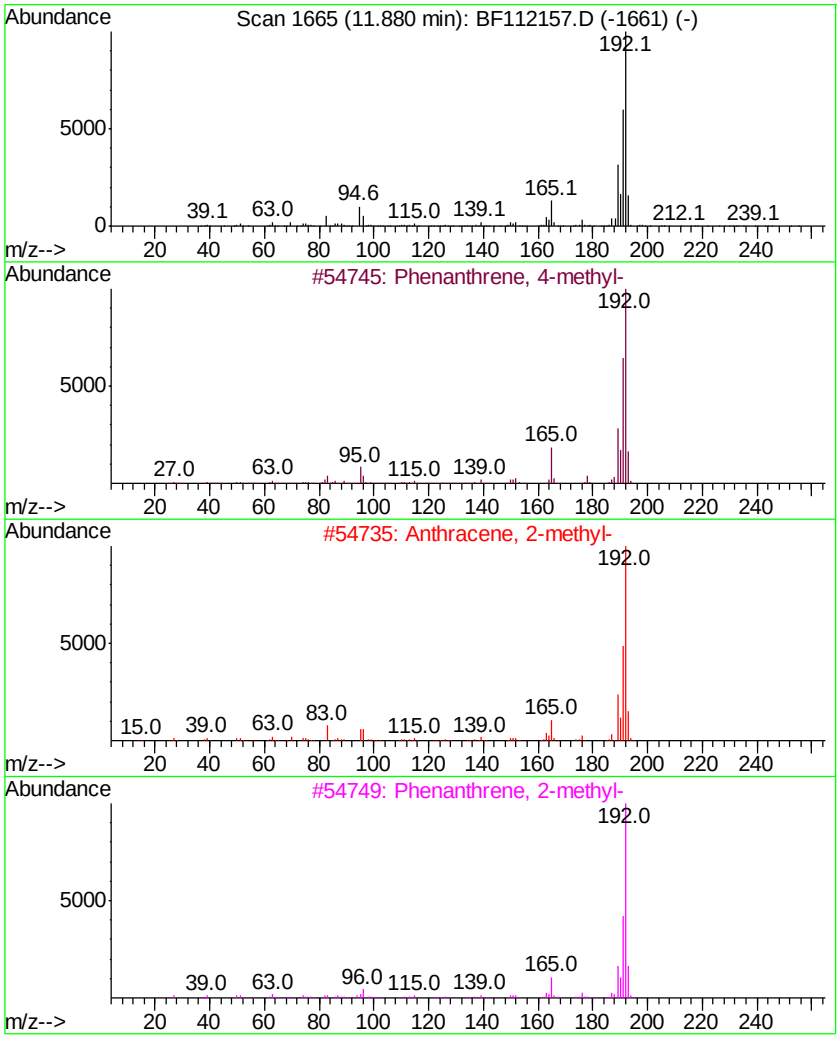
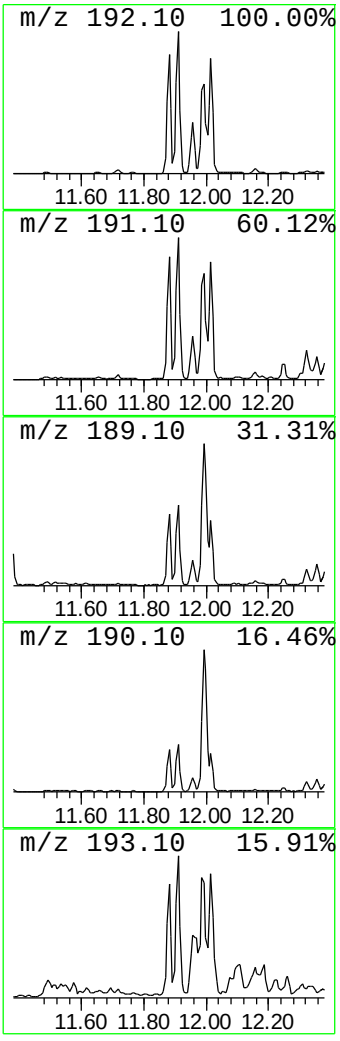
Peak Number 12 Phenanthrene, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	26.40 ng	2008470	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





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Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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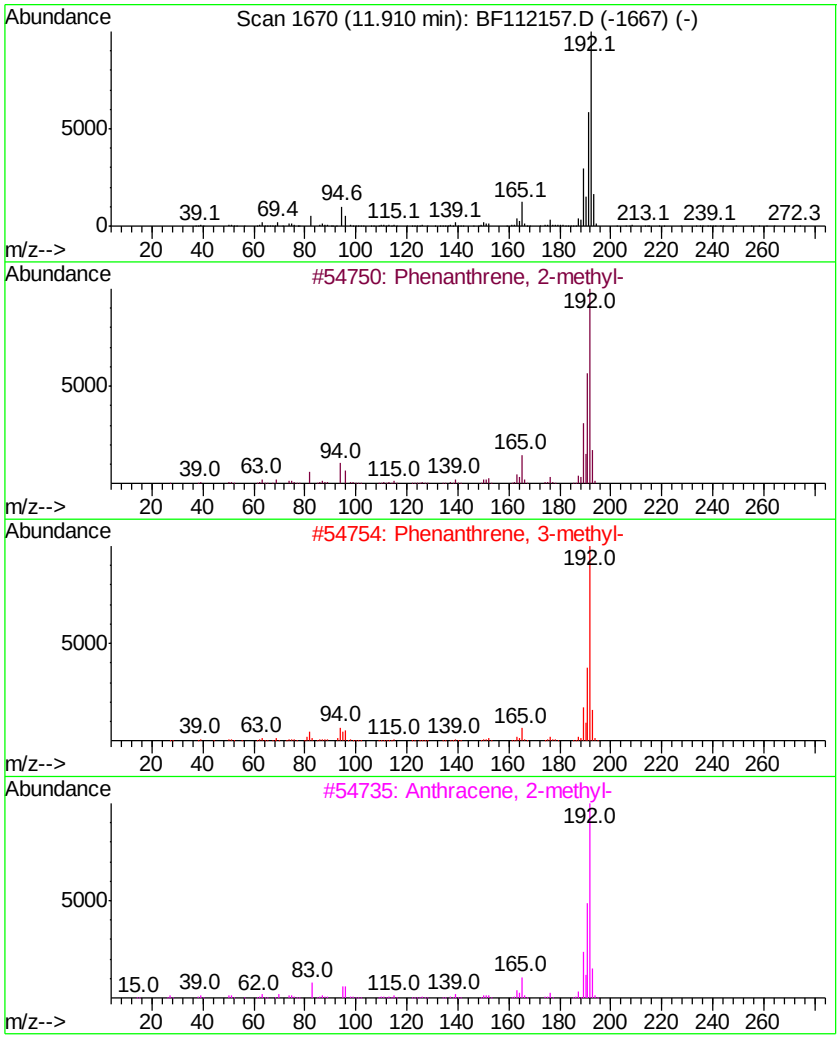
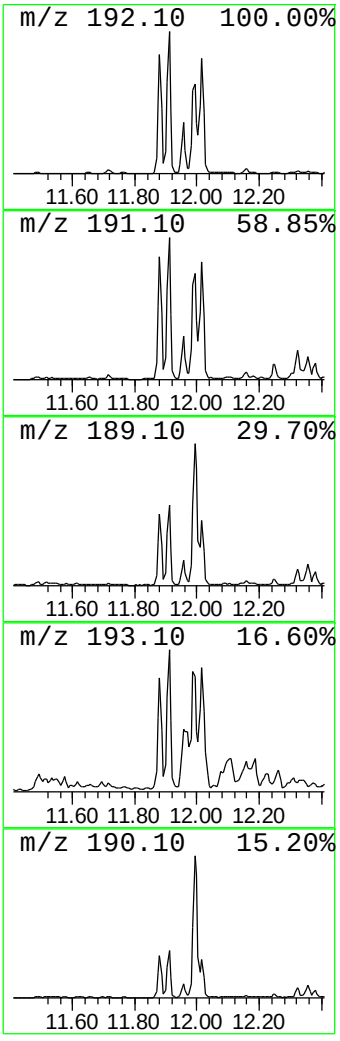
Peak Number 13 Phenanthrene, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	30.18 ng	2296120	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90





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Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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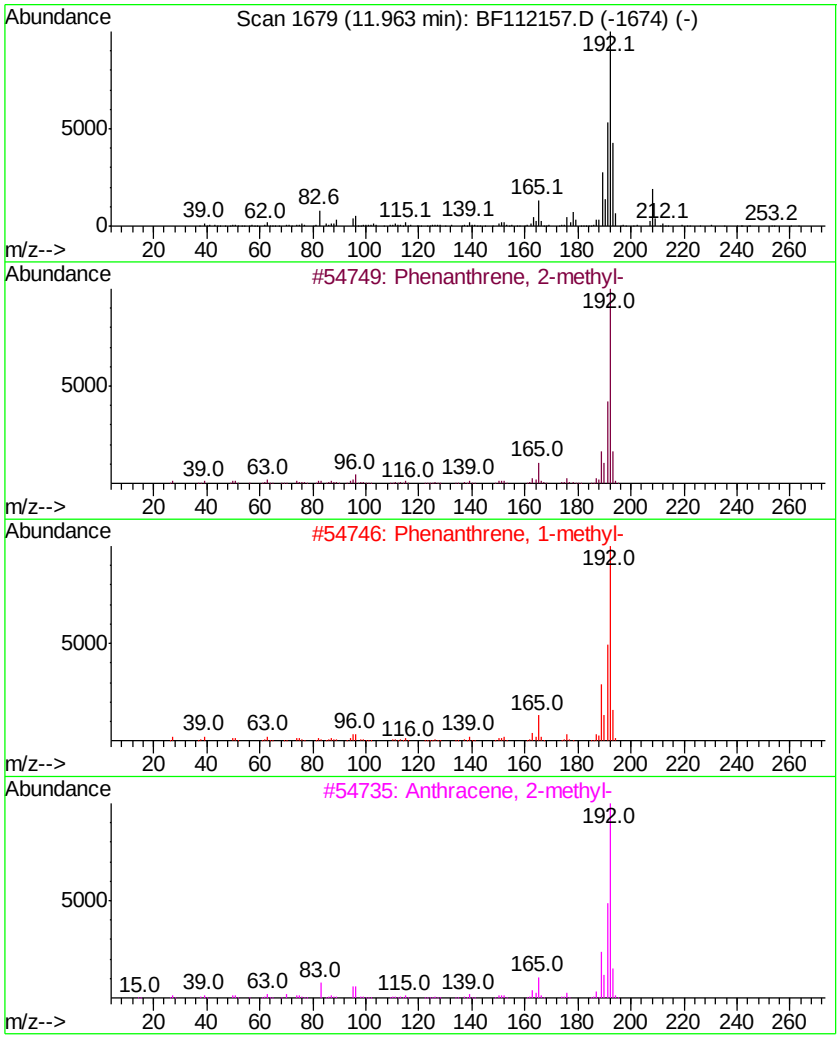
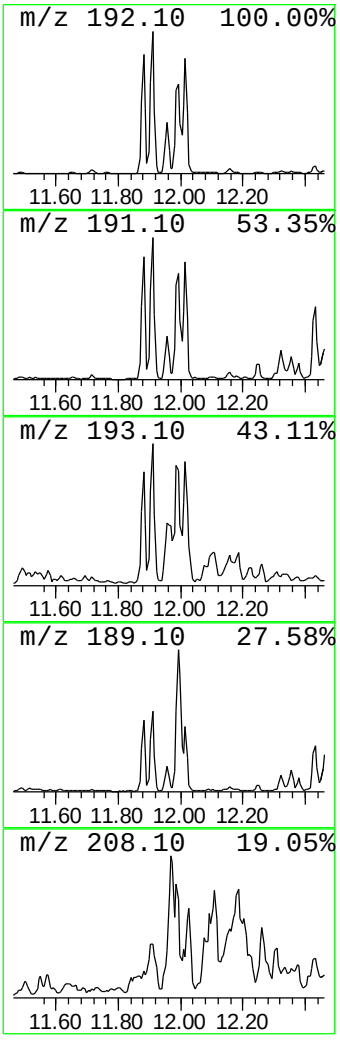
Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	11.39 ng	866177	Phenanthrene-d10	11.37

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	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

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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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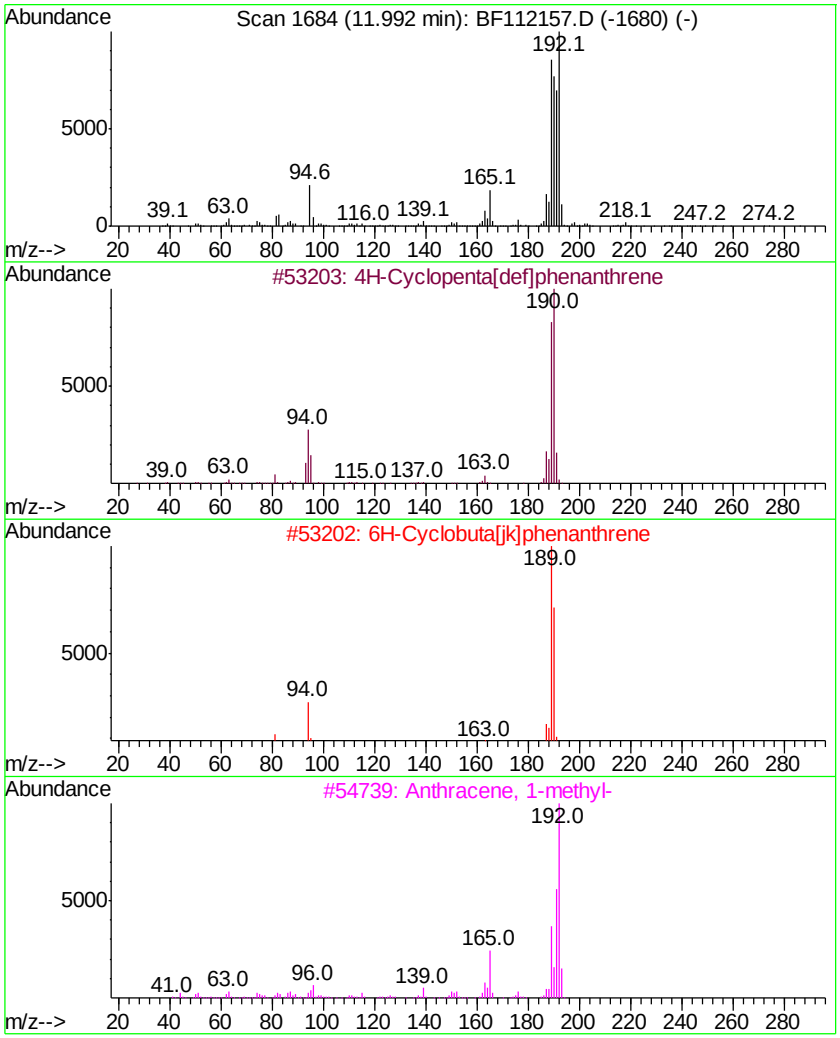
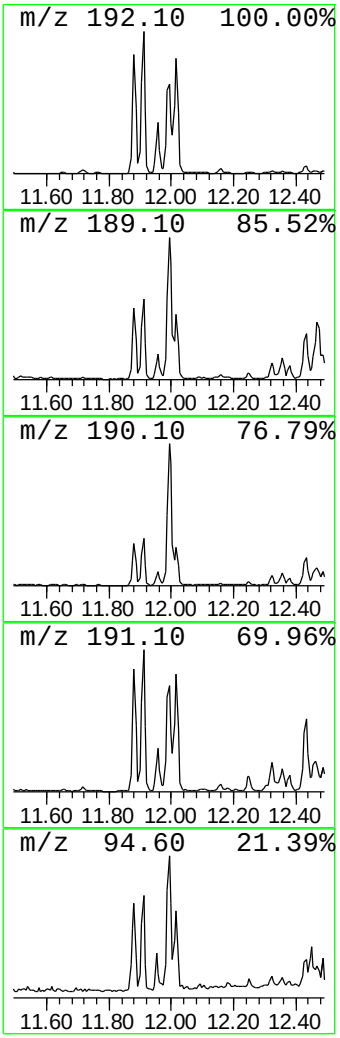
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	35.90 ng	2730980	Phenanthrene-d10	11.37

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	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38





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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

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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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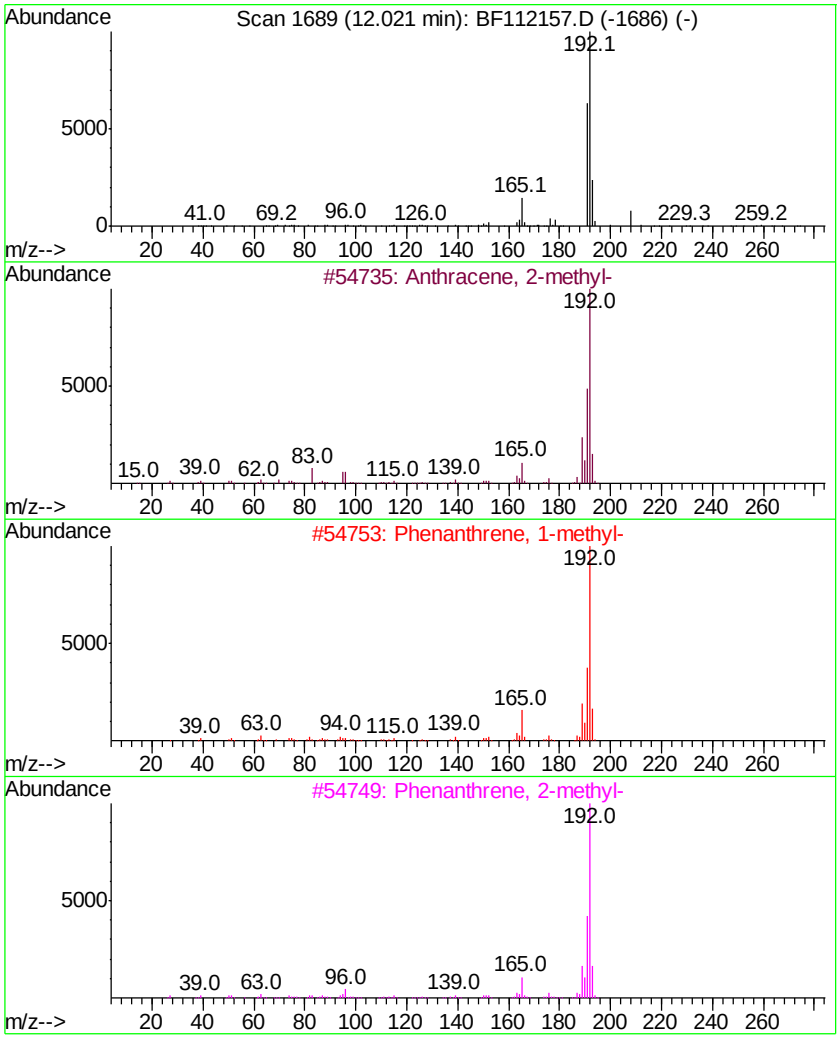
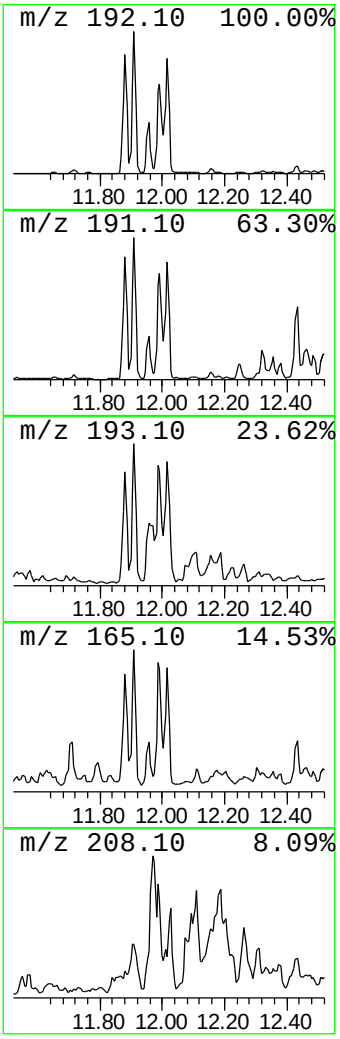
Peak Number 16 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	22.30 ng	1696860	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





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Sample : K1009-03 2X
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ClientSampleId : CL-01-011819-B

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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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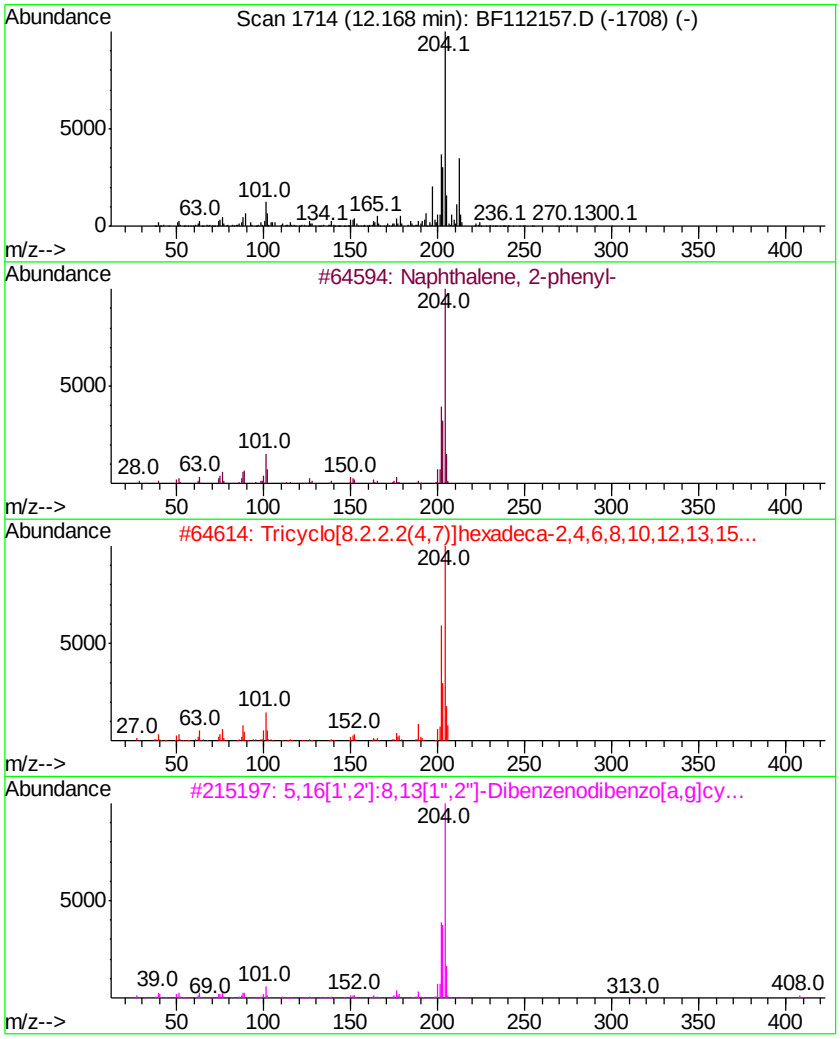
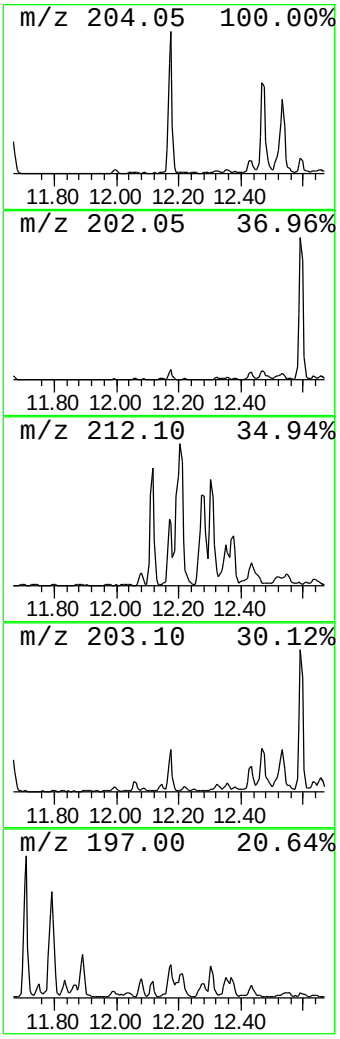
Peak Number 17 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	13.44 ng	1022350	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	55
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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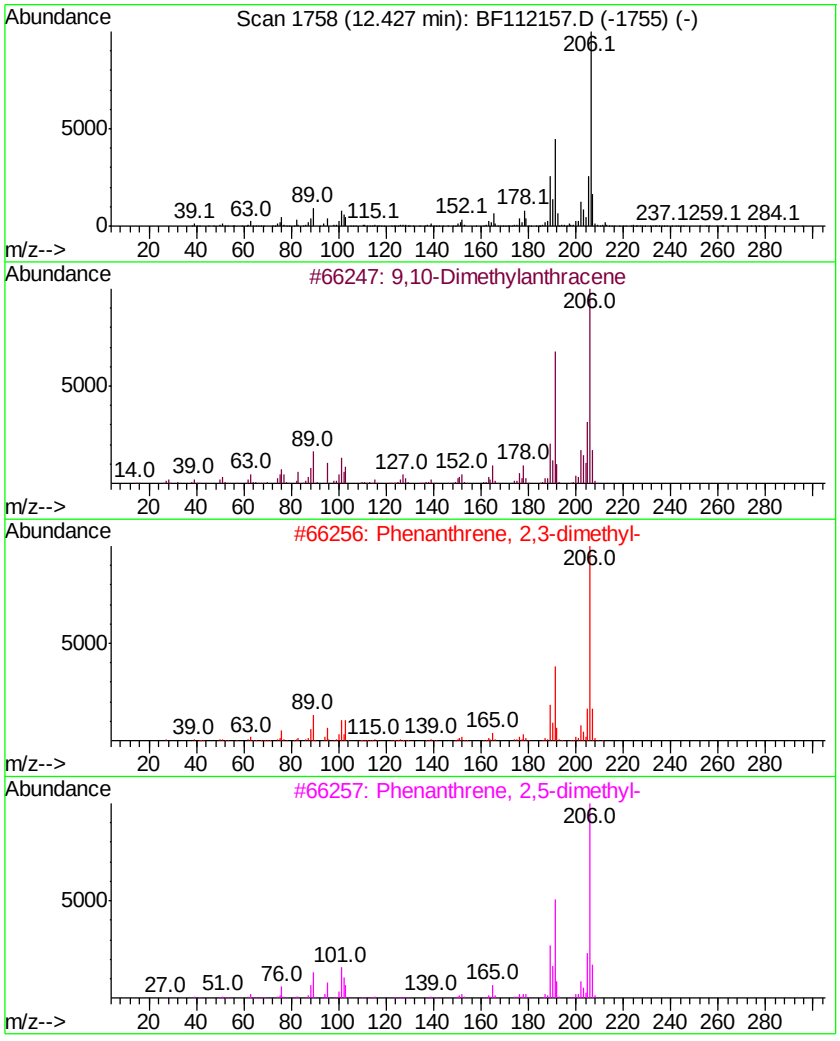
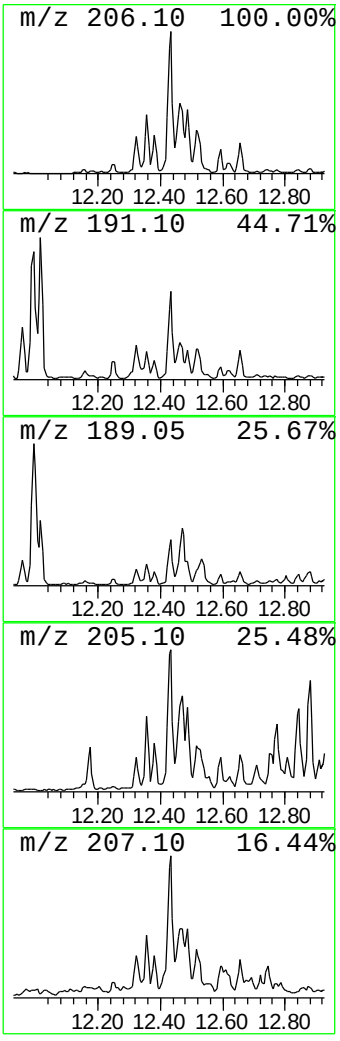
Peak Number 18 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	27.83 ng	2117560	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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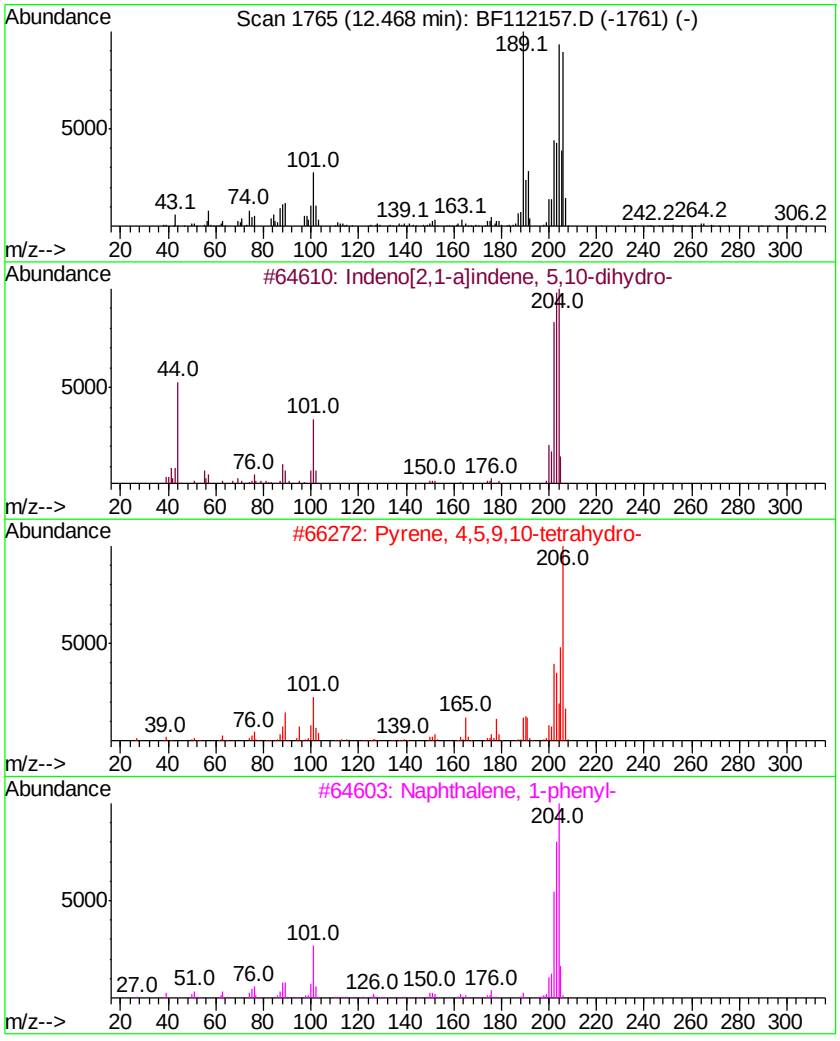
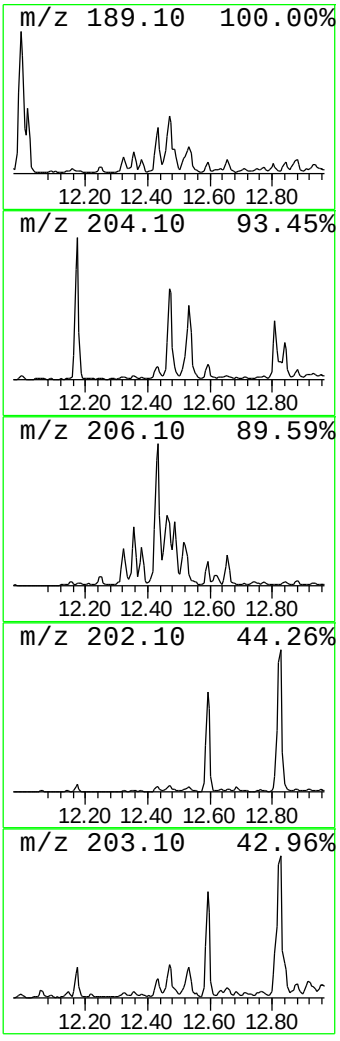
Peak Number 19 unknown12.47 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	25.53 ng	1942260	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	45
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	41
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
5	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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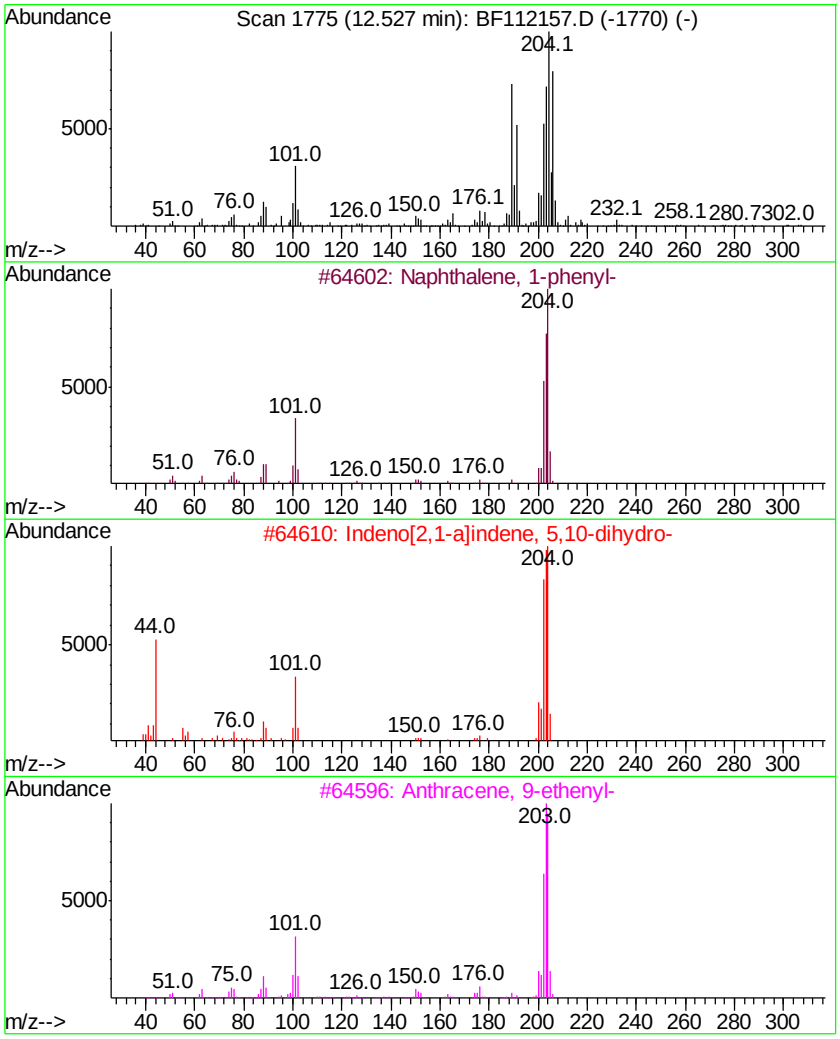
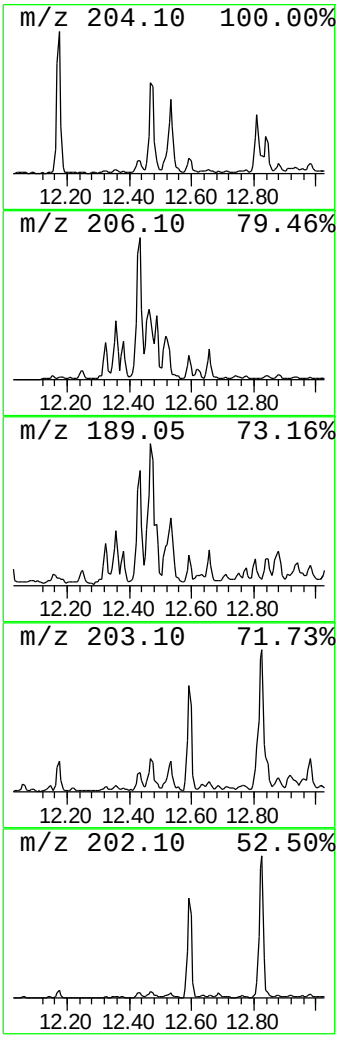
Peak Number 20 Naphthalene, 1-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	14.40 ng	1095510	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	92
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	78
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	74
4	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	55
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012119\
Data File : BF112157.D
Acq On : 21 Jan 2019 14:34
Operator : JU/SJ
Sample : K1009-03 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-011819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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
unknown6.63	6.63	38.2	ng	3133410	1	6.85	1641150	20.0
Naphthalene, 1,5-...	9.48	24.9	ng	2468980	3	9.89	1979650	20.0
Naphthalene, 2,3-...	9.67	12.6	ng	1242710	3	9.89	1979650	20.0
Naphthalene, 2,3,...	10.09	13.4	ng	1327220	3	9.89	1979650	20.0
Naphthalene, 1,6,...	10.13	10.3	ng	1019110	3	9.89	1979650	20.0
Naphthalene, 1,4,...	10.20	11.6	ng	1146200	3	9.89	1979650	20.0
9H-Fluorene, 1-me...	10.99	19.1	ng	1455800	4	11.37	1521550	20.0
9H-Fluorene, 2-me...	11.02	10.7	ng	812644	4	11.37	1521550	20.0
Dibenzothiophene	11.27	10.8	ng	824737	4	11.37	1521550	20.0
1-Methyldibenzoth...	11.71	12.5	ng	948043	4	11.37	1521550	20.0
Phenanthrene, 4-m...	11.88	26.4	ng	2008470	4	11.37	1521550	20.0
Phenanthrene, 3-m...	11.91	30.2	ng	2296120	4	11.37	1521550	20.0
Phenanthrene, 2-m...	11.96	11.4	ng	866177	4	11.37	1521550	20.0
4H-Cyclopenta[def...	11.99	35.9	ng	2730980	4	11.37	1521550	20.0
Anthracene, 2-met...	12.02	22.3	ng	1696860	4	11.37	1521550	20.0
Naphthalene, 2-ph...	12.17	13.4	ng	1022350	4	11.37	1521550	20.0
9,10-Dimethylanth...	12.43	27.8	ng	2117560	4	11.37	1521550	20.0
unknown12.47	12.47	25.5	ng	1942260	4	11.37	1521550	20.0
Naphthalene, 1-ph...	12.53	14.4	ng	1095510	4	11.37	1521550	20.0