LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

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-BF010719.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	2.169	10	14	23	rVB	70400	106943	2.95%	0.208%
2	5.087	506	510	518	rVB	224024	258920	7.13%	0.505%
3	5.504	577	581	585	rBV	3316320	3255543	89.66%	6.344%
4	6.516	748	753	767	rVB	3578108	3630870	100.00%	7.076%
5	6.645	770	775	778	rBV	3419238	3113362	85.75%	6.067%
6	6.692	781	783	788	rVB	35664	38479	1.06%	0.075%
7	6.869	809	813	816	rBV	1028342	894286	24.63%	1.743%
8	7.028	835	840	843	rBV	2508242	2367034	65.19%	4.613%
9	7.428	903	908	911	rBV	1971019	1774751	48.88%	3.459%
10	8.151	1026	1031	1033	rBV	1171147	1060083	29.20%	2.066%
11	8.169	1033	1034	1038	rVB	116845	71982	1.98%	0.140%
12	8.863	1148	1152	1157	rVB	60072	52464	1.44%	0.102%
13	8.963	1164	1169	1172	rVB	69575	62049	1.71%	0.121%
14	9.227	1209	1214	1217	rBV	3401054	3205233	88.28%	6.246%
15	9.339	1228	1233	1238	rVB2	141743	137244	3.78%	0.267%
16	9.492	1252	1259	1262	rBV2	47324	56082	1.54%	0.109%
17	9.563	1267	1271	1274	rBV2	64016	67679	1.86%	0.132%
18	9.616	1276	1280	1283	rVB	801141	665797	18.34%	1.297%
19	9.680	1288	1291	1293	rBV	56199	48597	1.34%	0.095%
20	9.763	1302	1305	1309	rVB	70629	56129	1.55%	0.109%
21	9.904	1325	1329	1332	rBV2	1369959	1202512	33.12%	2.343%
22	9.939	1332	1335	1338	rVB	393985	354396	9.76%	0.691%
23	10.063	1351	1356	1360	rBV2	49092	61117	1.68%	0.119%
24	10.110	1360	1364	1367	rVB	175124	168971	4.65%	0.329%
25	10.221	1380	1383	1385	rBV	37574	38982	1.07%	0.076%
26	10.310	1394	1398	1400	rBV2	32773	44782	1.23%	0.087%
27	10.451	1418	1422	1426	rBV	414767	346182	9.53%	0.675%
28	10.539	1435	1437	1439	rVB2	57147	43414	1.20%	0.085%
29	10.610	1446	1449	1453	rVB	81400	76837	2.12%	0.150%
30	10.698	1459	1464	1467	rBV	2214205	2013836	55.46%	3.924%
31	10.816	1479	1484	1488	rVB2	122271	137923	3.80%	0.269%
32	10.998	1509	1515	1518	rBV3	109921	141151	3.89%	0.275%
33	11.027	1518	1520	1523	rVV2	64899	62098	1.71%	0.121%
34	11.086	1527	1530	1532	rVB	55812	54784	1.51%	0.107%

LSC Area Percent Report

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Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.192	1546	1548	1554	rVB	73203	58030	1.60%	0.113%
36	11.257	1554	1559	1561	rBV3	51165	82341	2.27%	0.160%
37	11.286	1561	1564	1568	rVB	230735	203202	5.60%	0.396%
38	11.392	1576	1582	1584	rBV	1286923	1234598	34.00%	2.406%
39	11.421	1584	1587	1590	rVV	2097781	1923407	52.97%	3.748%
40	11.468	1590	1595	1598	rVV	673992	577502	15.91%	1.125%
41	11.498	1598	1600	1604	rVV3	68472	80138	2.21%	0.156%
42	11.621	1616	1621	1628	rBV2	234450	331974	9.14%	0.647%
43	11.686	1629	1632	1634	rBV2	89318	84890	2.34%	0.165%
44	11.721	1635	1638	1641	rBV2	87858	92735	2.55%	0.181%
45	11.804	1650	1652	1655	rBV2	39975	40623	1.12%	0.079%
46	11.898	1664	1668	1670	rBV	235206	245248	6.75%	0.478%
47	11.921	1670	1672	1676	rVB	424526	356448	9.82%	0.695%
48	11.968	1677	1680	1683	rBV	136614	151778	4.18%	0.296%
49	12.010	1683	1687	1689	rBV2	500245	524517	14.45%	1.022%
50	12.192	1715	1718	1719	rBV	199235	156050	4.30%	0.304%
51	12.615	1787	1790	1794	rVB	2100865	1899636	52.32%	3.702%
52	12.839	1822	1828	1834	rBV	1772519	2066172	56.91%	4.026%
53	12.886	1834	1836	1844	rVB2	97866	110543	3.04%	0.215%
54	12.974	1845	1851	1860	rVB	2871728	2931320	80.73%	5.712%
55	13.057	1860	1865	1868	rBV3	101960	173040	4.77%	0.337%
56	13.162	1877	1883	1886	rVB	348837	429402	11.83%	0.837%
57	13.198	1886	1889	1892	rBV3	62532	92286	2.54%	0.180%
58	13.227	1892	1894	1897	rVV	273782	241444	6.65%	0.471%
59	13.268	1897	1901	1903	rVV2	180262	162606	4.48%	0.317%
60	13.321	1908	1910	1914	rVV3	50029	63778	1.76%	0.124%
61	13.362	1914	1917	1919	rVV	103277	88828	2.45%	0.173%
62	13.392	1919	1922	1925	rVB	121802	107360	2.96%	0.209%
63	13.668	1967	1969	1974	rVB	97882	133491	3.68%	0.260%
64	13.780	1984	1988	1991	rBV2	137204	181903	5.01%	0.354%
65	13.809	1991	1993	1995	rVV	166666	144105	3.97%	0.281%
66	13.833	1995	1997	2000	rVV2	131515	169250	4.66%	0.330%
67	13.874	2000	2004	2010	rVB3	222402	308841	8.51%	0.602%
68	14.027	2026	2030	2034	rBV2	1369847	2021775	55.68%	3.940%
69	14.057	2034	2035	2038	rVB	762878	595171	16.39%	1.160%
70	14.139	2046	2049	2053	rBV	241674	180005	4.96%	0.351%
71	14.174	2053	2055	2056	rBV	67497	52057	1.43%	0.101%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.221	2061	2063	2065	rVB	105947	78785	2.17%	0.154%
73	14.257	2065	2069	2072	rVB2	119702	131158	3.61%	0.256%
74	14.356	2083	2086	2088	rBV3	43628	52374	1.44%	0.102%
75	14.380	2088	2090	2092	rVV	68480	69002	1.90%	0.134%
76	14.421	2092	2097	2099	rVV	202834	252627	6.96%	0.492%
77	14.451	2099	2102	2106	rVV2	125115	139585	3.84%	0.272%
78	14.498	2106	2110	2111	rVV2	135201	160130	4.41%	0.312%
79	14.515	2111	2113	2116	rVV	136228	151481	4.17%	0.295%
80	14.545	2116	2118	2120	rVV	148305	153274	4.22%	0.299%
81	14.568	2120	2122	2125	rVV2	172929	164772	4.54%	0.321%
82	14.615	2125	2130	2135	rVB3	79671	137856	3.80%	0.269%
83	14.727	2146	2149	2152	rBV2	60846	84546	2.33%	0.165%
84	14.804	2159	2162	2165	rBV2	90631	98132	2.70%	0.191%
85	15.080	2204	2209	2212	rBV	905985	1385228	38.15%	2.699%
86	15.139	2217	2219	2224	rVV3	79573	117227	3.23%	0.228%
87	15.186	2224	2227	2231	rVB	195430	200401	5.52%	0.391%
88	15.386	2256	2261	2267	rVB	490312	652437	17.97%	1.271%
89	15.451	2267	2272	2277	rVB	797588	1008107	27.76%	1.965%
90	15.515	2277	2283	2286	rBV	869551	1229288	33.86%	2.396%
91	16.992	2528	2534	2543	rVB2	276528	523716	14.42%	1.021%
92	17.162	2559	2563	2568	rBV	57778	95226	2.62%	0.186%
93	17.439	2604	2610	2619	rBV	174249	364075	10.03%	0.709%
94	17.674	2646	2650	2657	rVB	50652	98860	2.72%	0.193%

Sum of corrected areas: 51315293

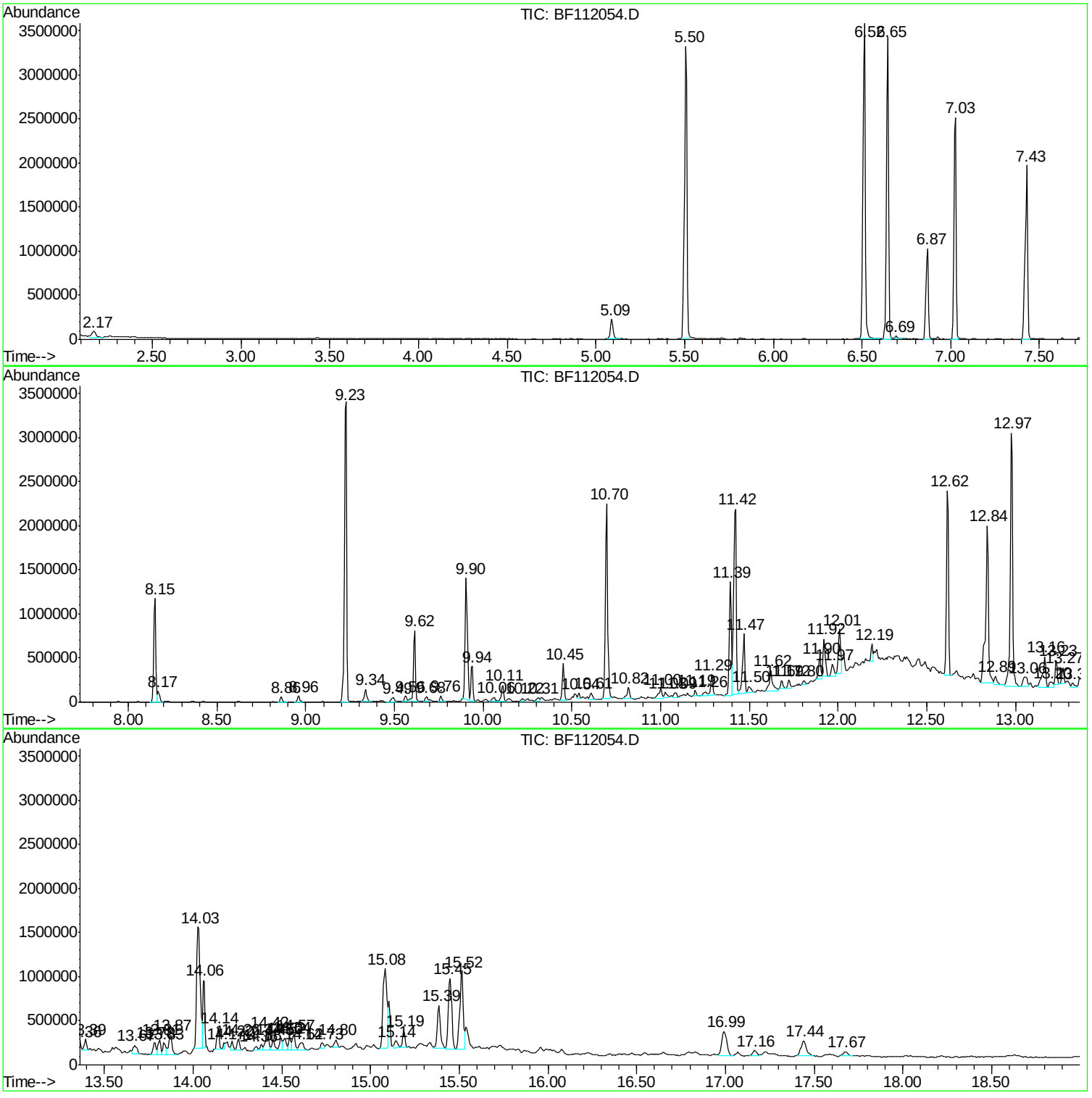
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

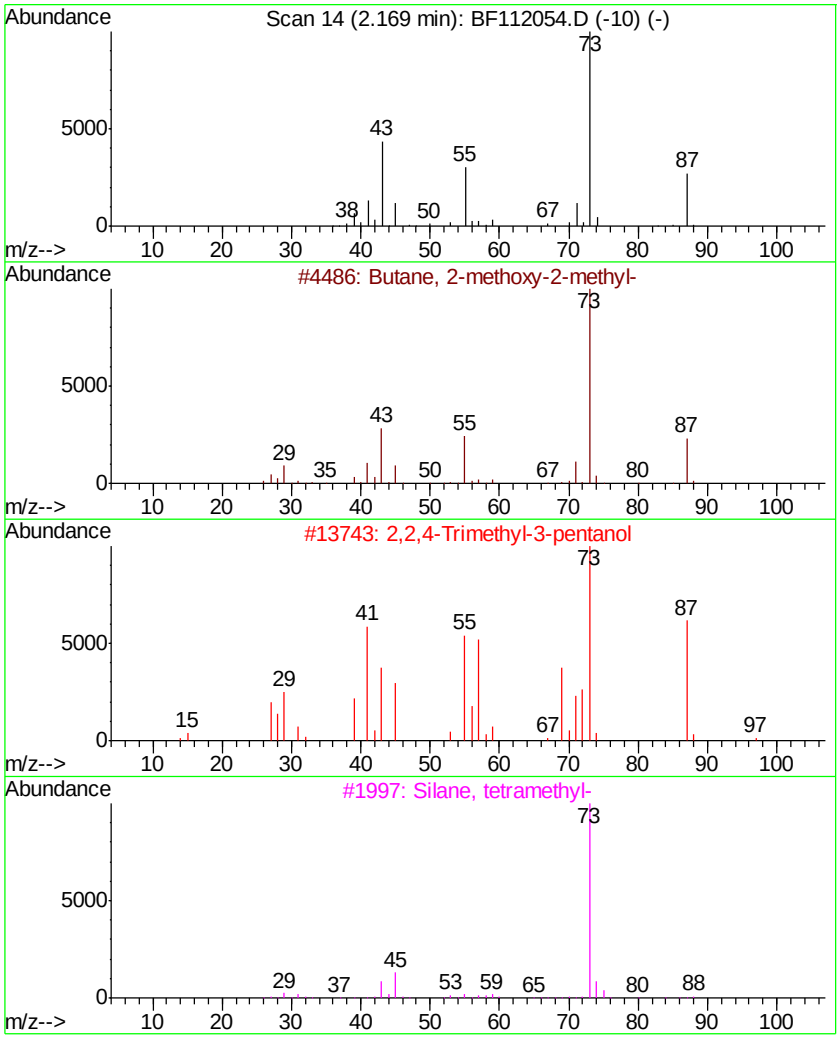
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

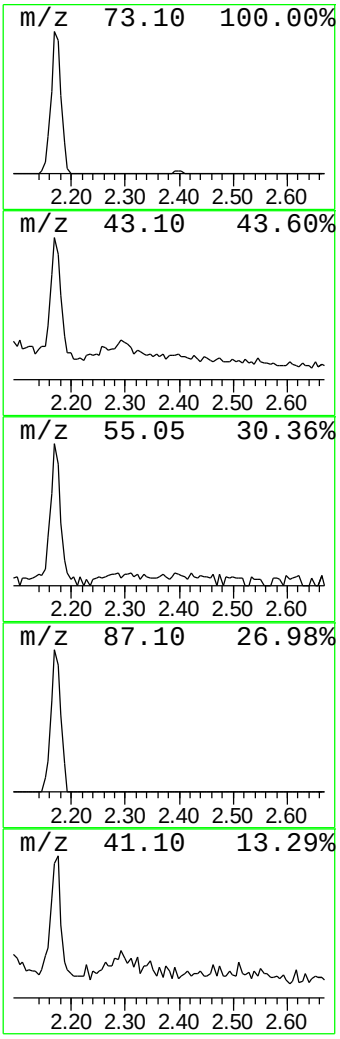
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	2.39 ng	106943	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	33
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
4	1-(2-Methoxyethoxy)-2-methyl-2-p...	162	C8H18O3	1000364-24-4	23
5	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	16





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

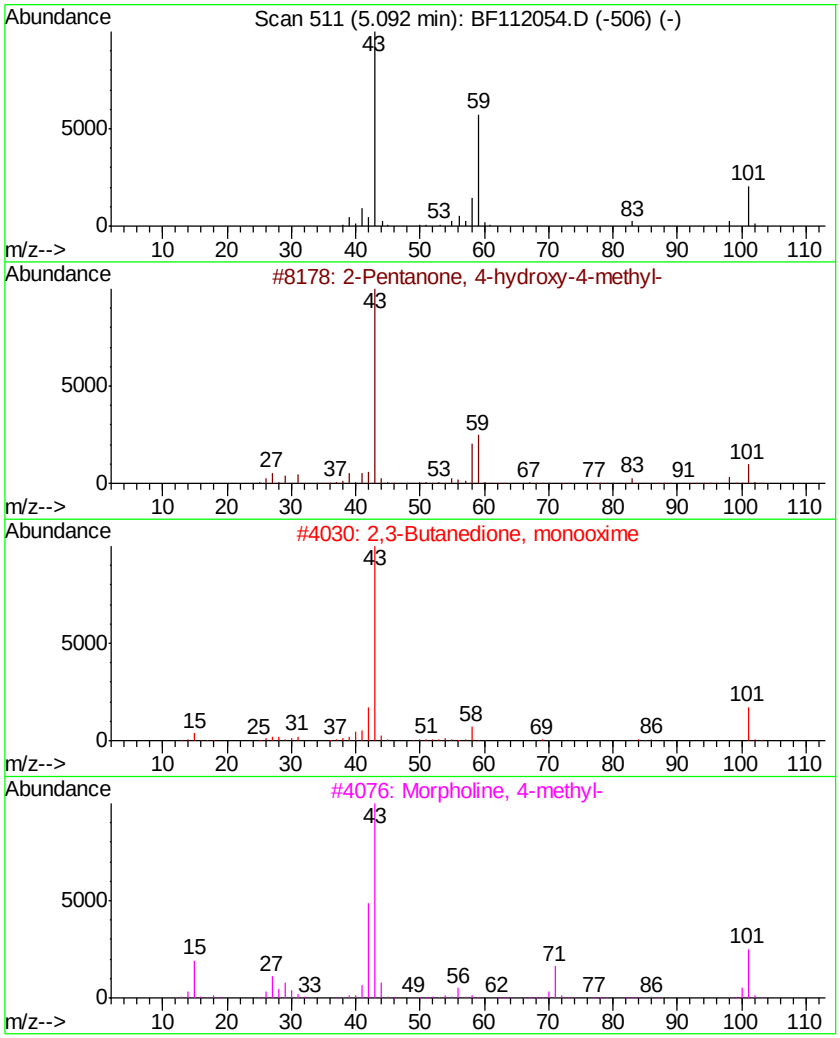
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

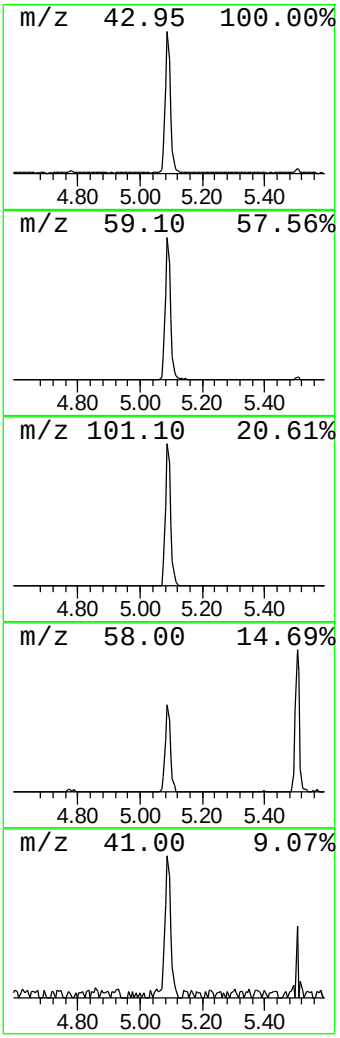
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.09	5.79 ng	258920	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

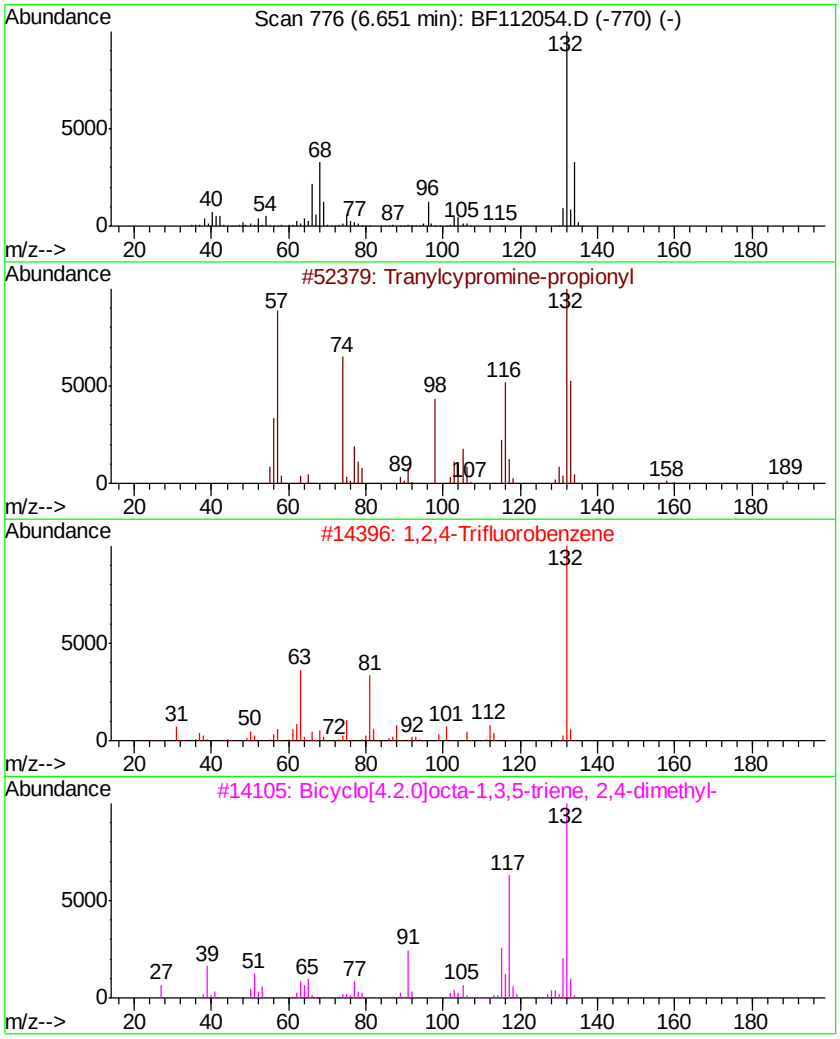
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

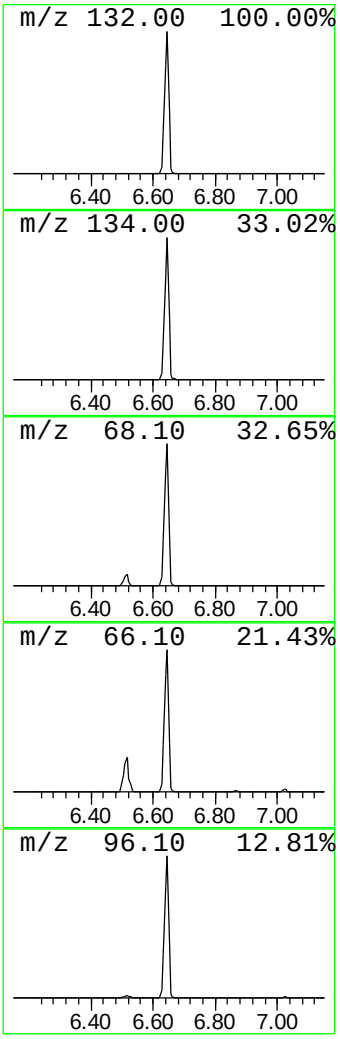
****

Peak Number 3 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	69.63 ng	3113360	1,4-Dichlorobenzene-d4	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
2	1,2,4-Trifluorobenzene	132	C6H3F3	000367-23-7	9
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

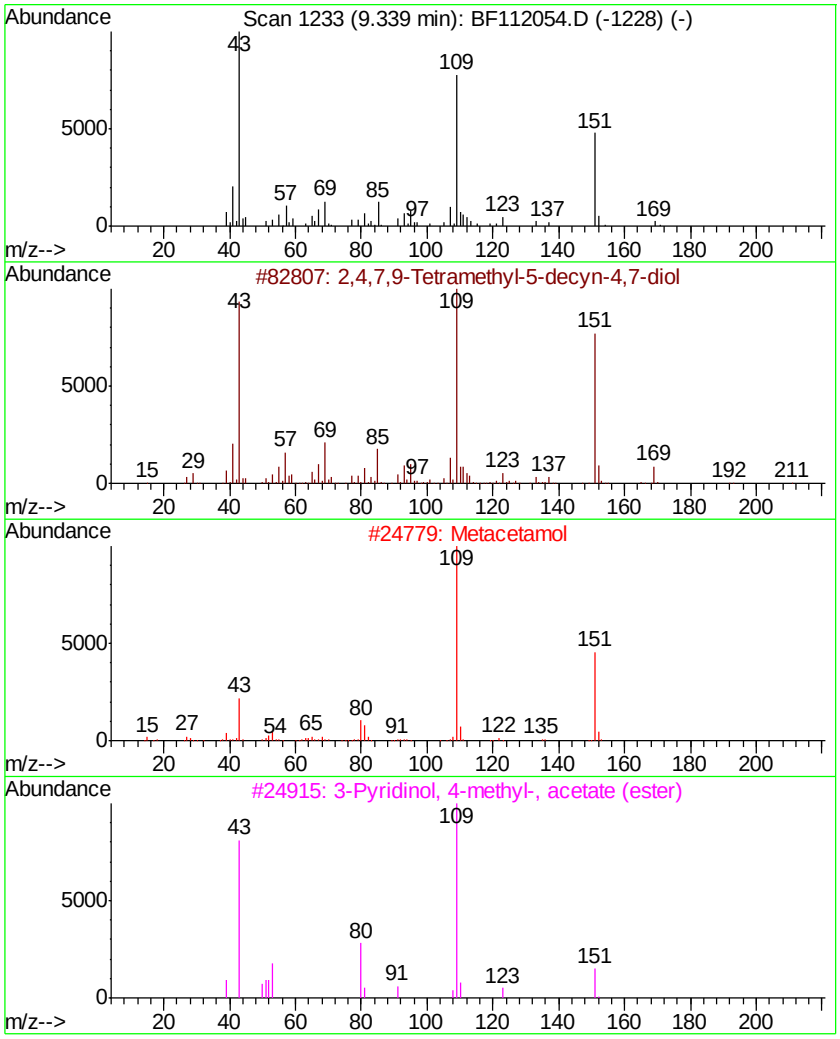
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

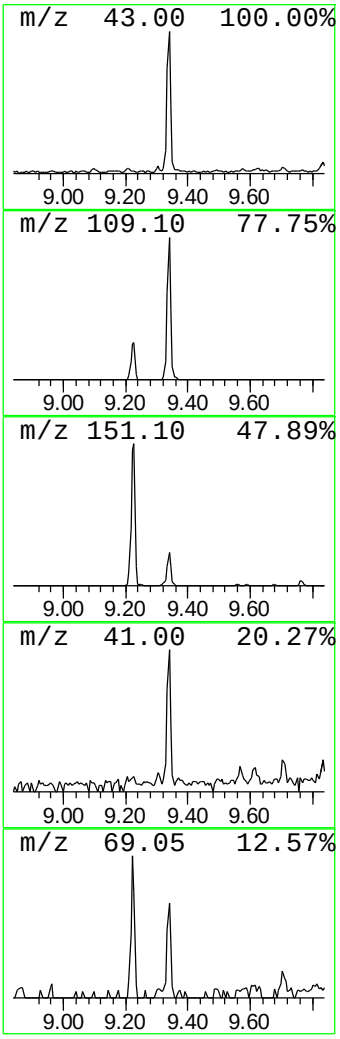
****

Peak Number 5 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.34	2.28 ng	137244	Acenaphthene-d10	9.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	91
2	Metacetamol	151	C8H9NO2	000621-42-1	59
3	3-Pyridinol, 4-methyl-, acetate ...	151	C8H9NO2	001006-96-8	59
4	Pyridine, 2-butyl-, 1-oxide	151	C9H13NO	031396-32-4	59
5	(-)-10-Camphorsulfonyl chloride	250	C10H15ClO3S	039262-22-1	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

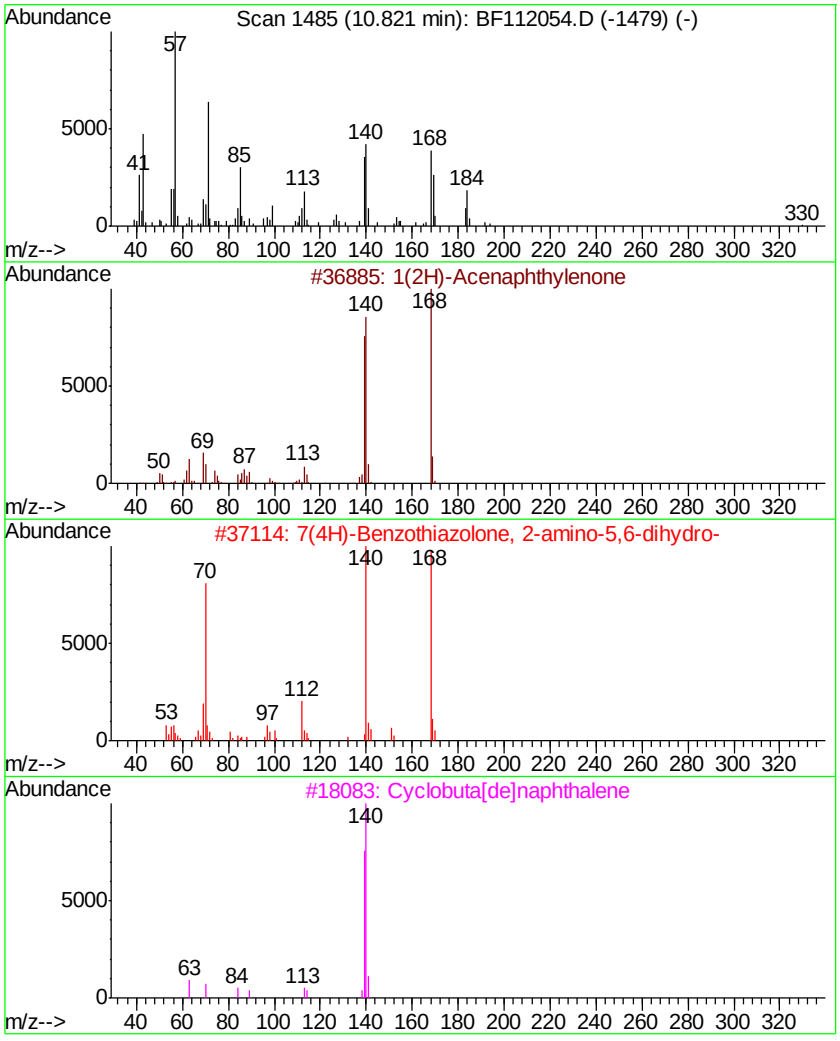
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

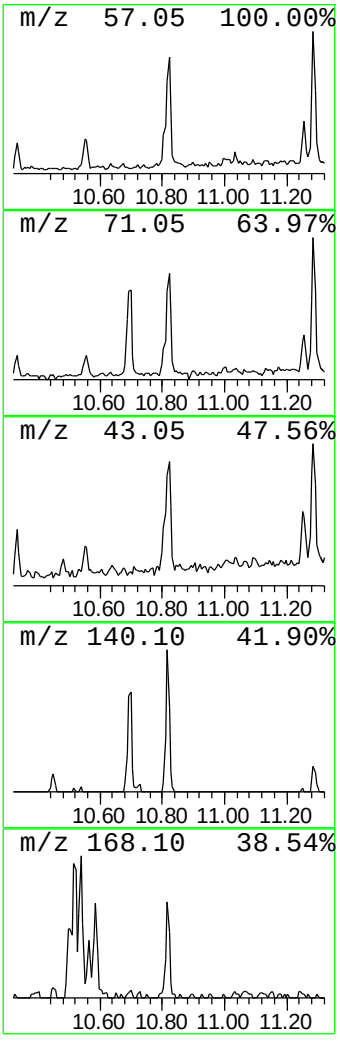
****

Peak Number 6 1(2H)-Acenaphthylenone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	2.23 ng	137923	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	64
2	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	017583-10-7	38
3	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	30
4	3-Fluorosalicylaldehyde	140	C7H5FO2	000394-50-3	30
5	Benzaldehyde, 4-fluoro-3-hydroxy-	140	C7H5FO2	103438-85-3	27





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Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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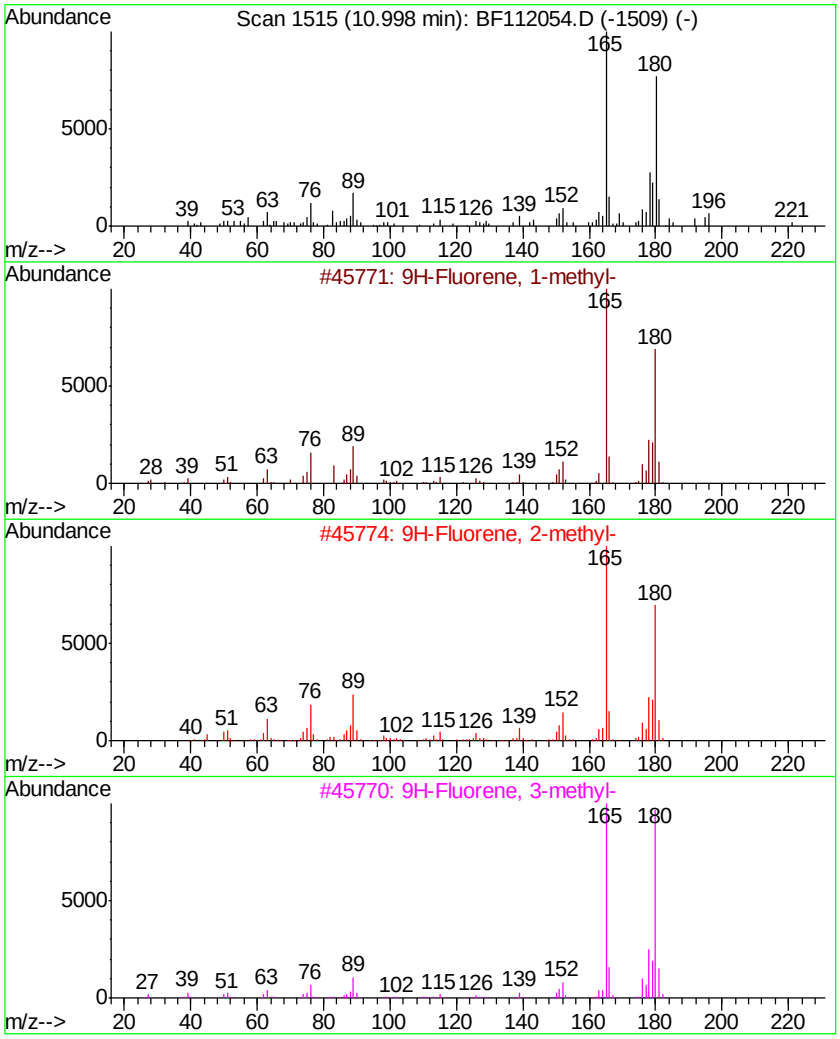
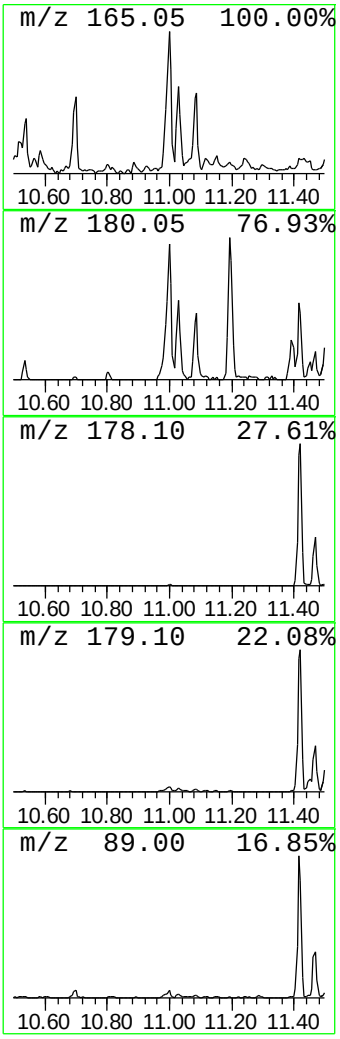
Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	2.29 ng	141151	Phenanthrene-d10	11.39

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	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	91
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	91





Library Search Compound Report

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Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

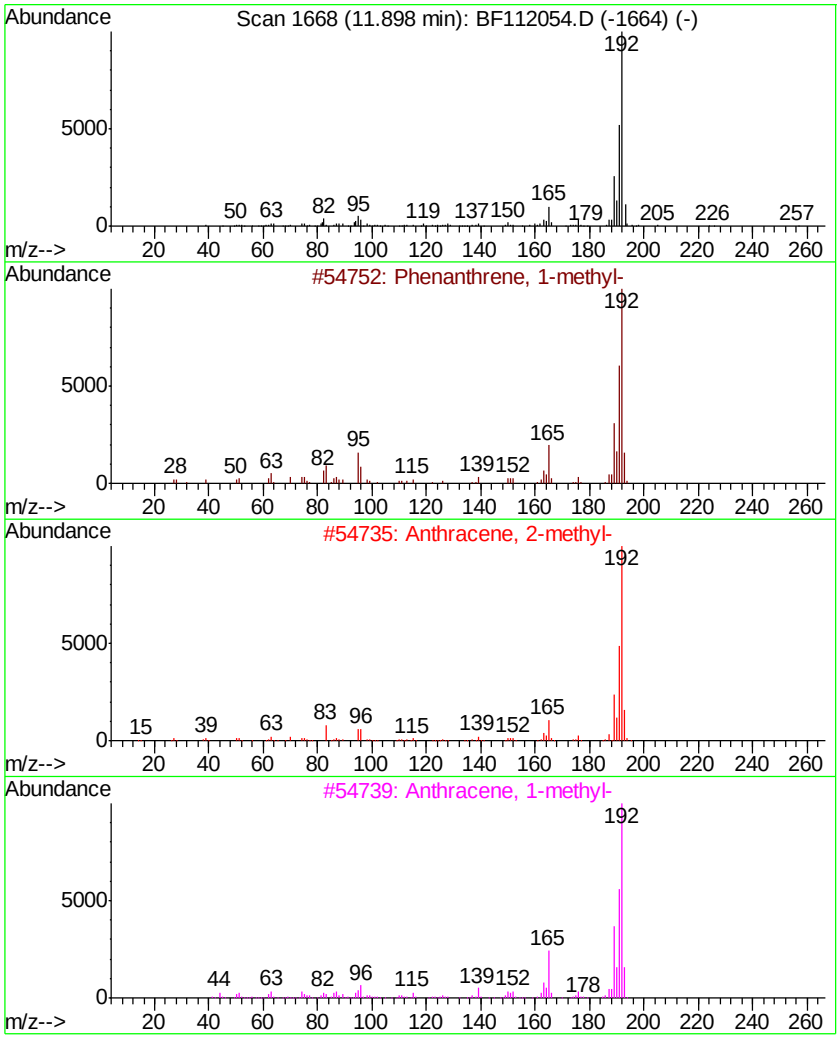
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

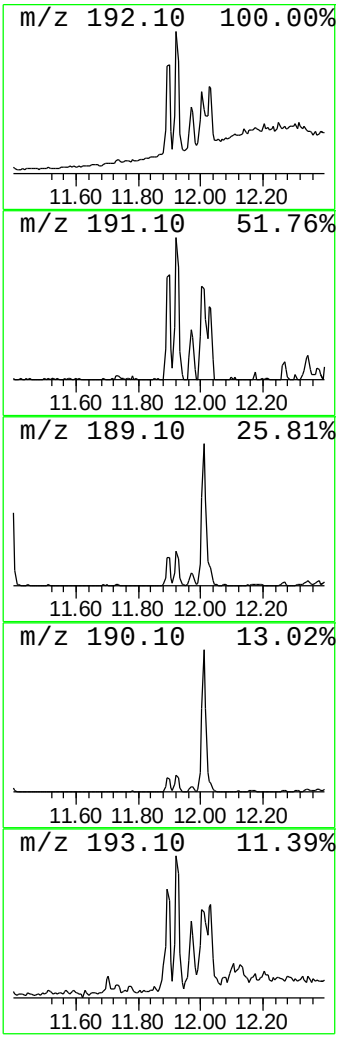
****

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	3.97 ng	245248	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	89





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Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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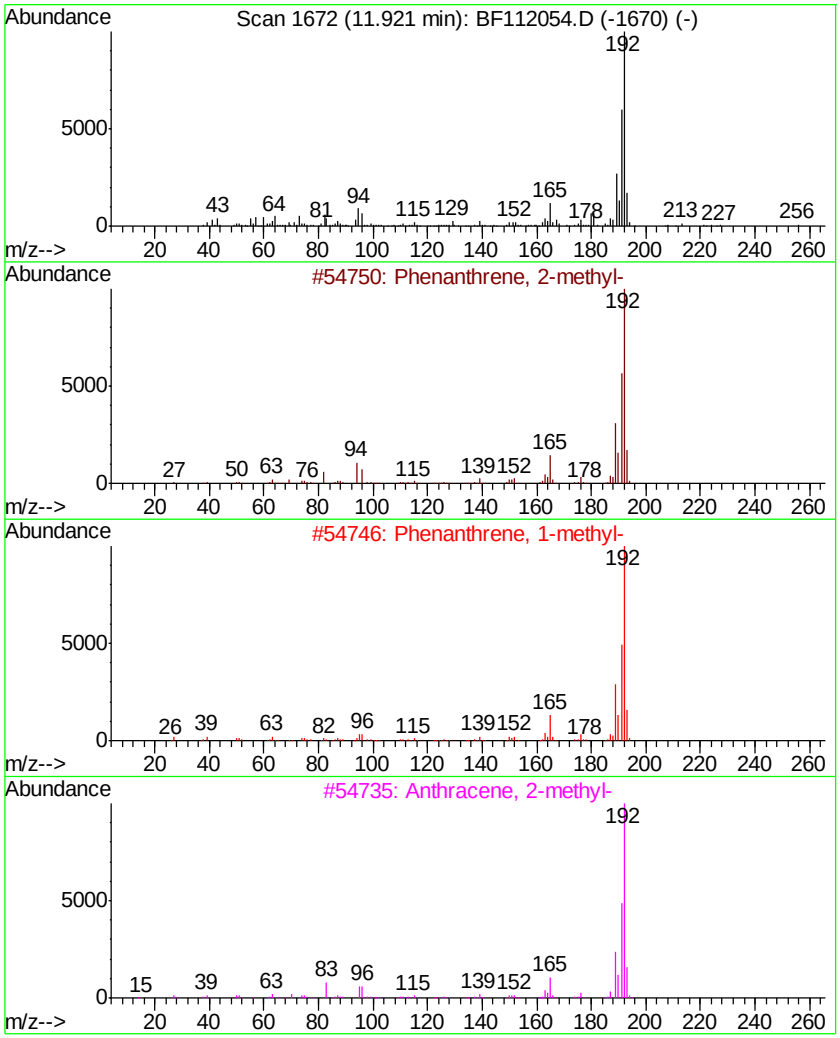
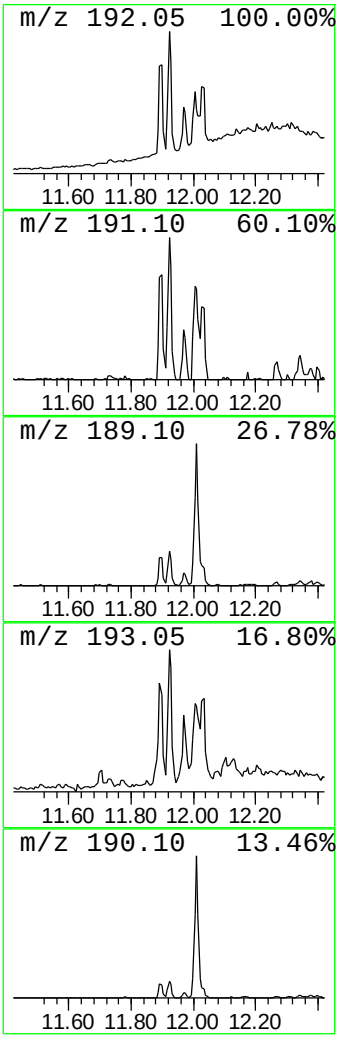
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	5.77 ng	356448	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Library Search Compound Report

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Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

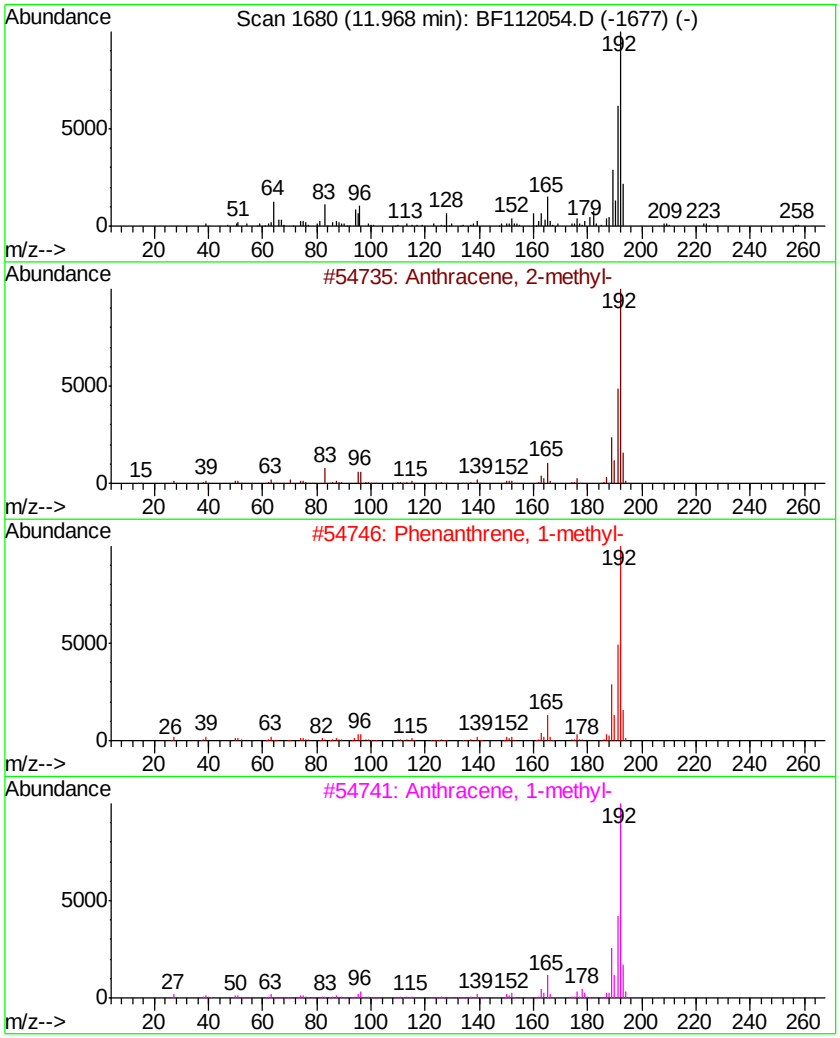
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

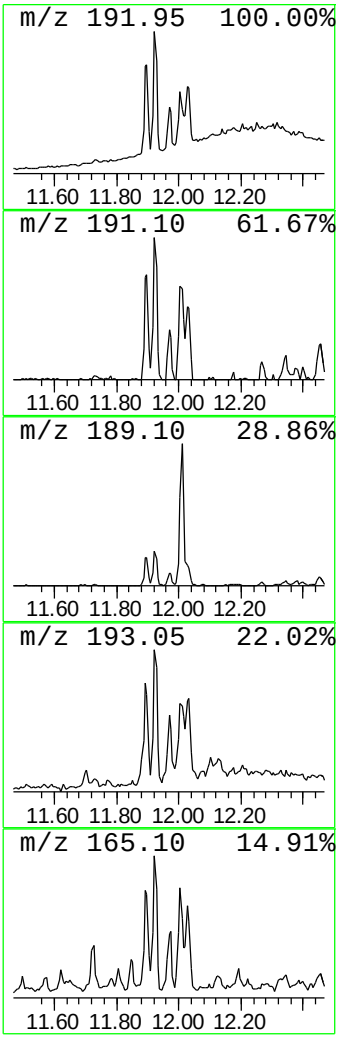
****

Peak Number 11 Anthracene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	2.46 ng	151778	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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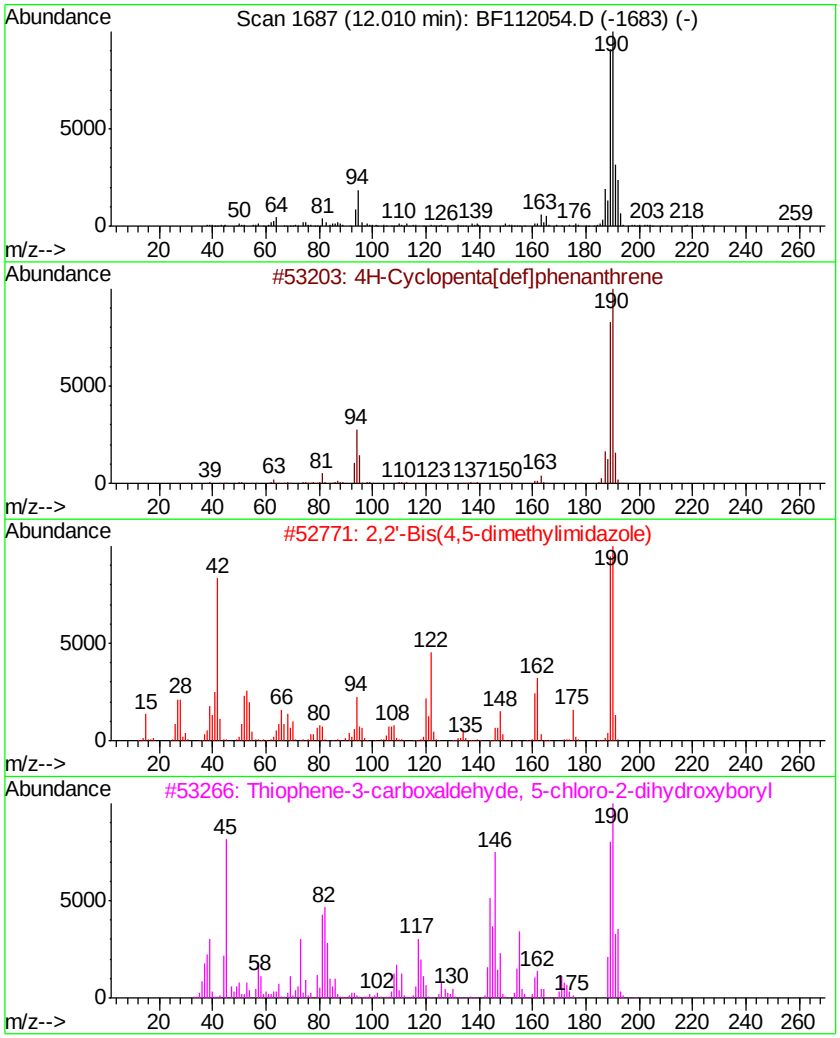
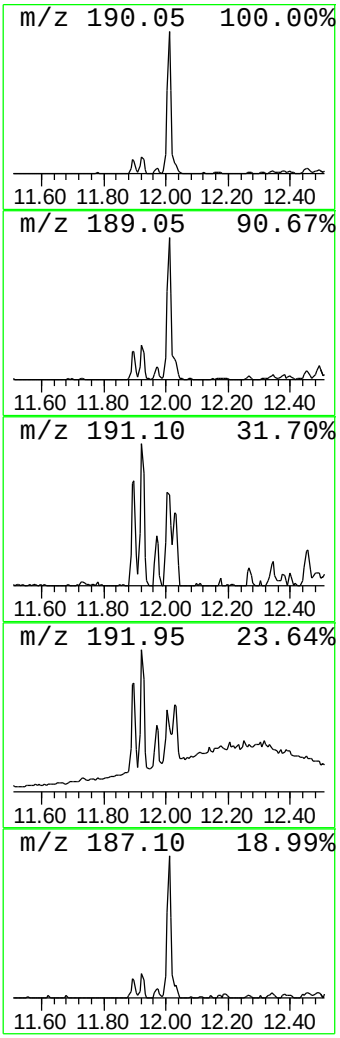
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	8.50 ng	524517	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18





Library Search Compound Report

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Data File : BF112054.D
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Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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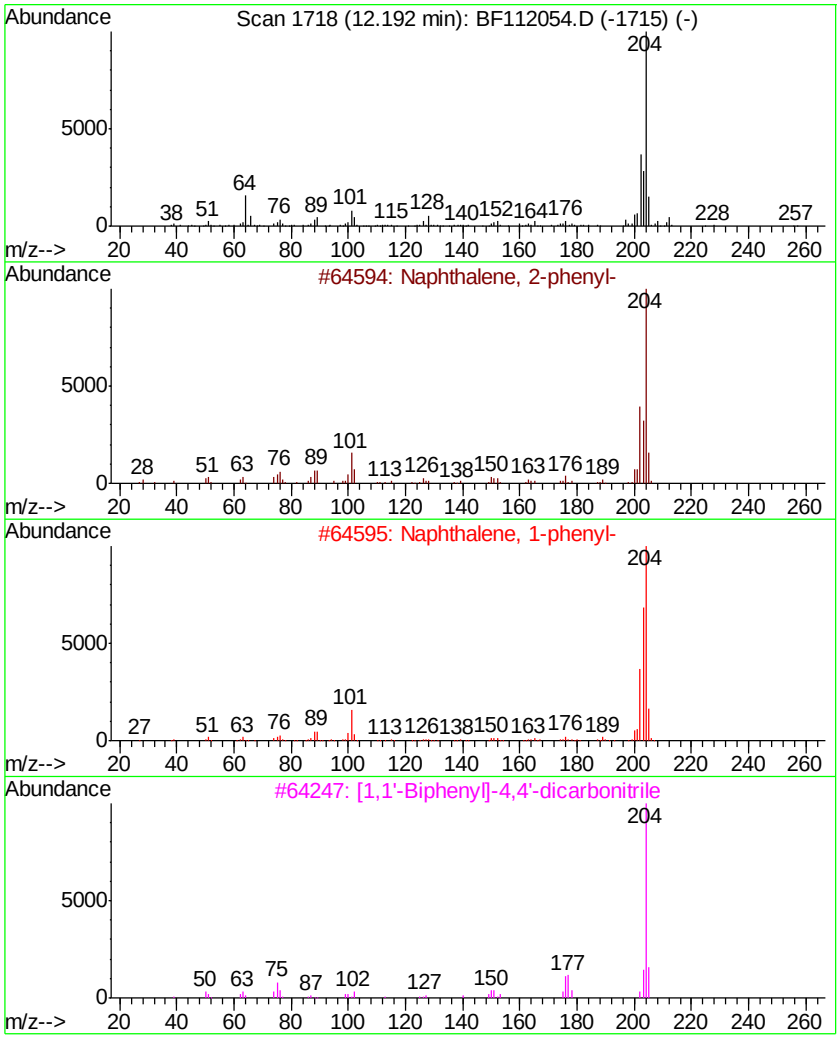
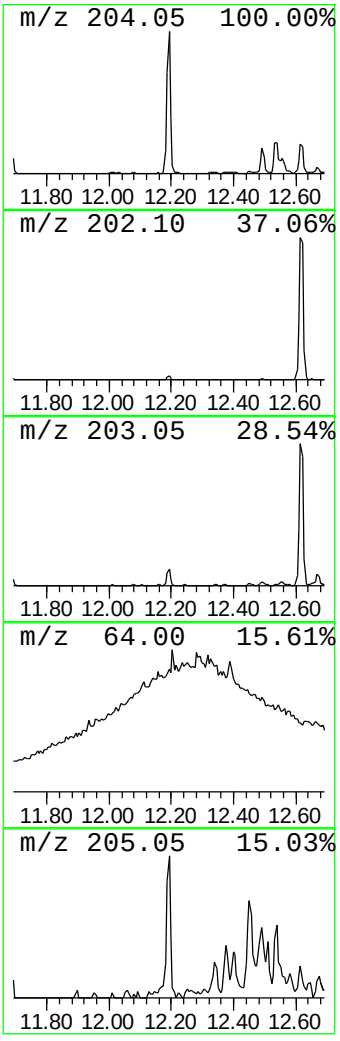
Peak Number 13 Naphthalene, 1-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	2.53 ng	156050	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50





Library Search Compound Report

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Data File : BF112054.D
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Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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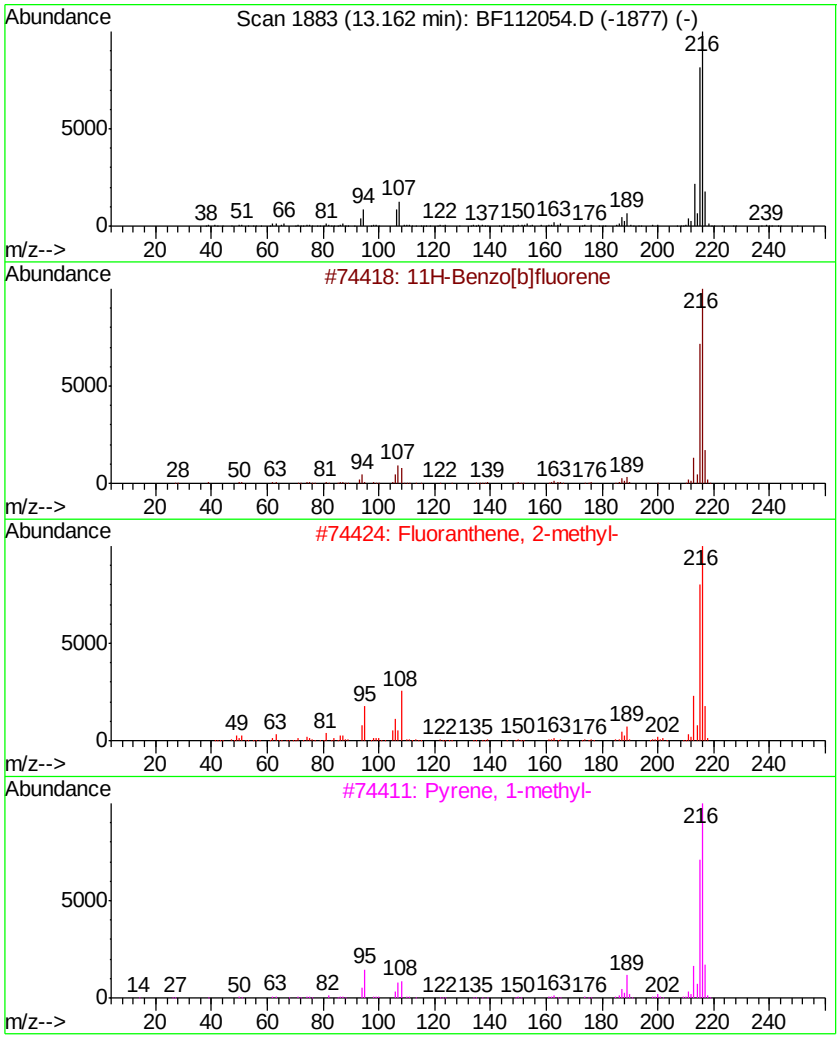
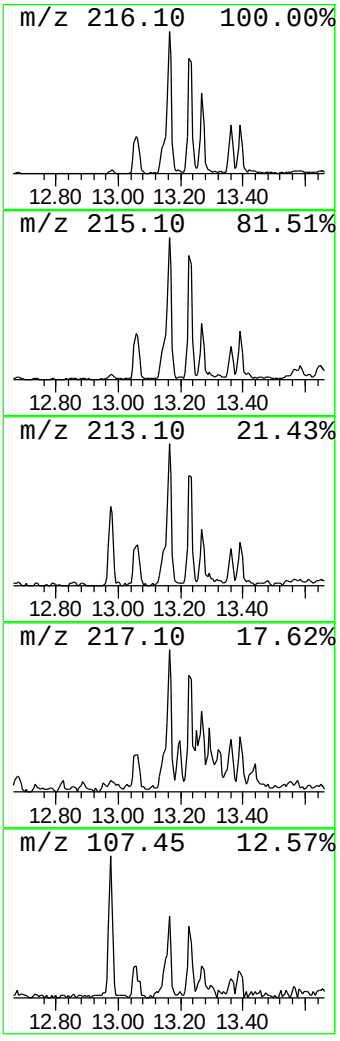
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.25 ng	429402	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





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Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

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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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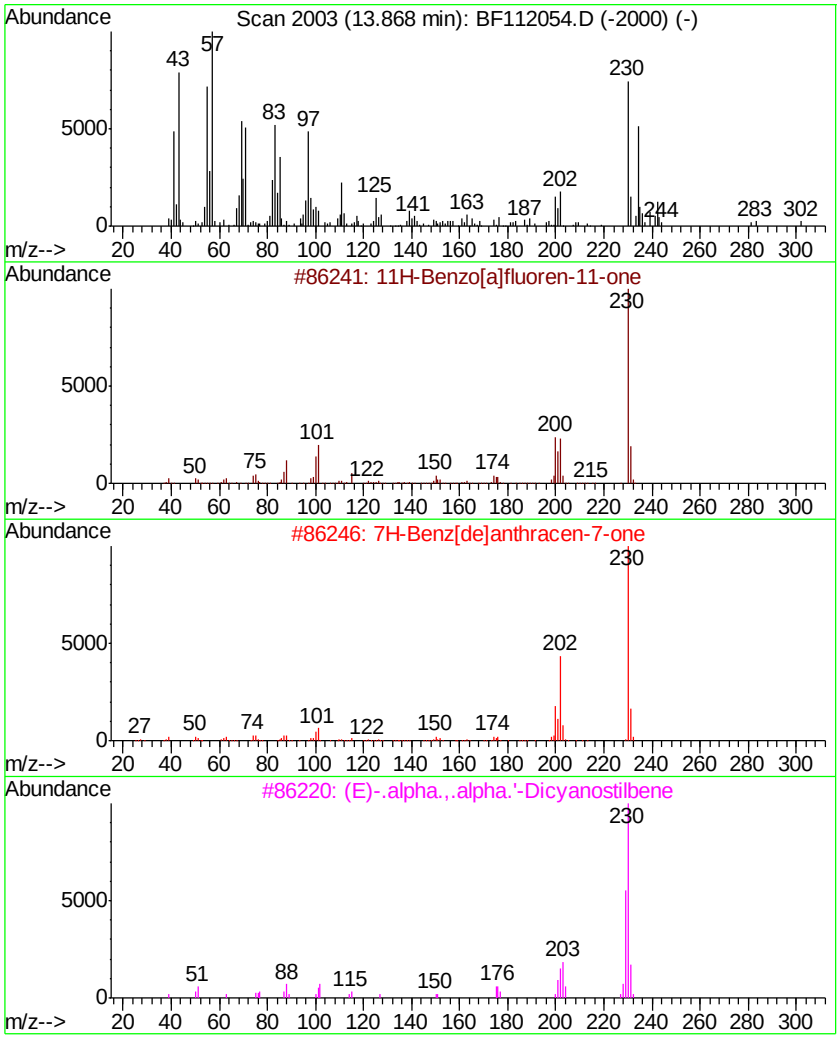
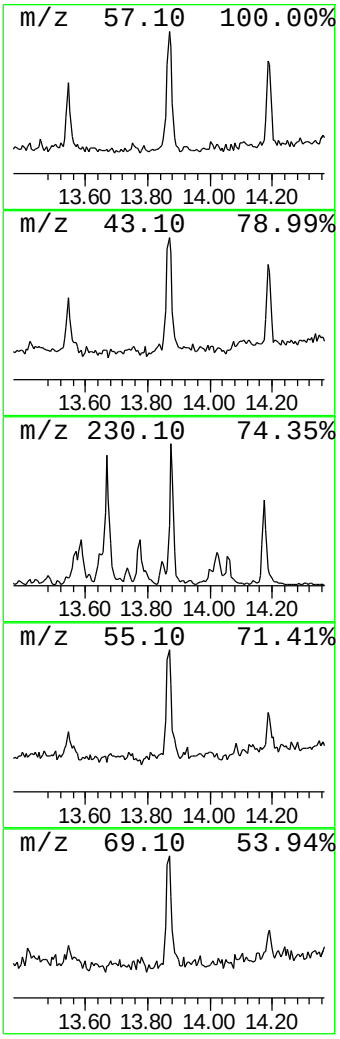
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	3.06 ng	308841	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	86
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	60
3	(E)-.alpha.,.alpha.'-Dicyanostil...	230	C16H10N2	002450-55-7	49
4	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	47
5	Pyrimidine-5-carbonitrile, 2-ami...	230	C11H7ClN4	281665-63-2	38





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Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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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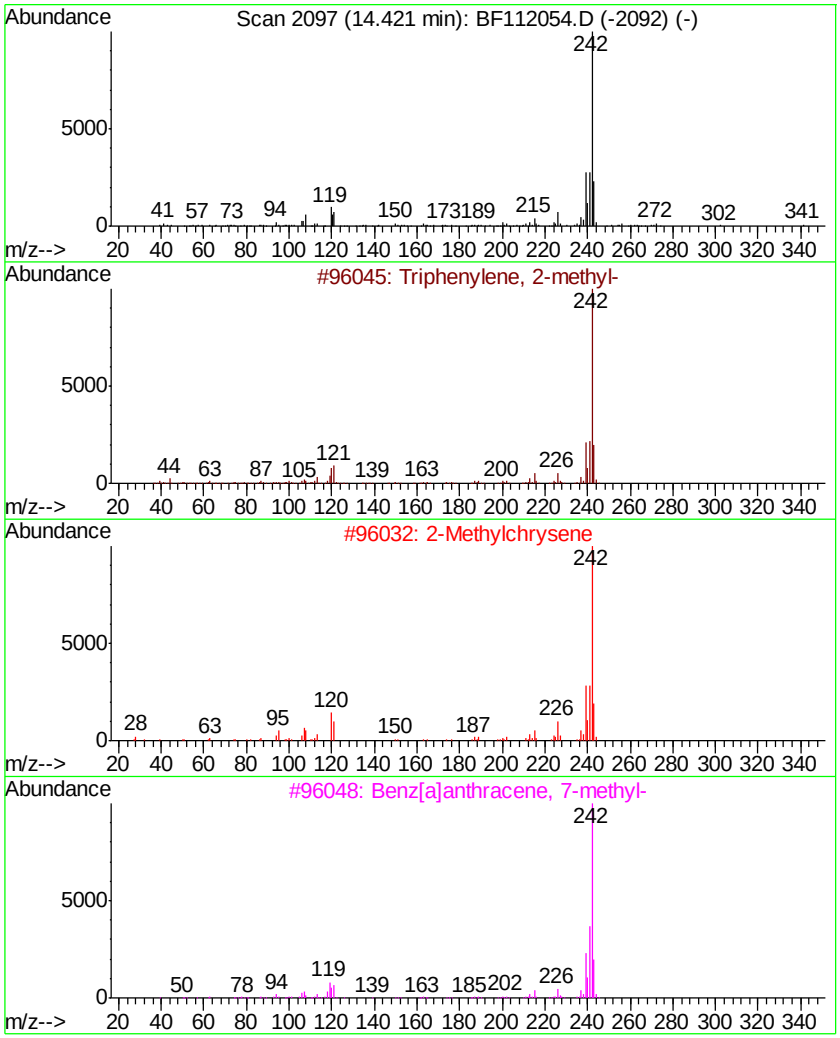
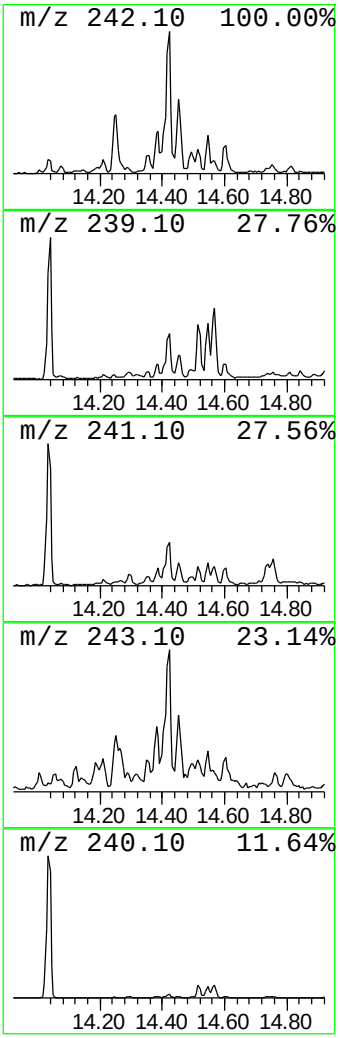
Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.42	2.50 ng	252627	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	2-Methylchrysene	242	C19H14	003351-32-4	95
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	94
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	91





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Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

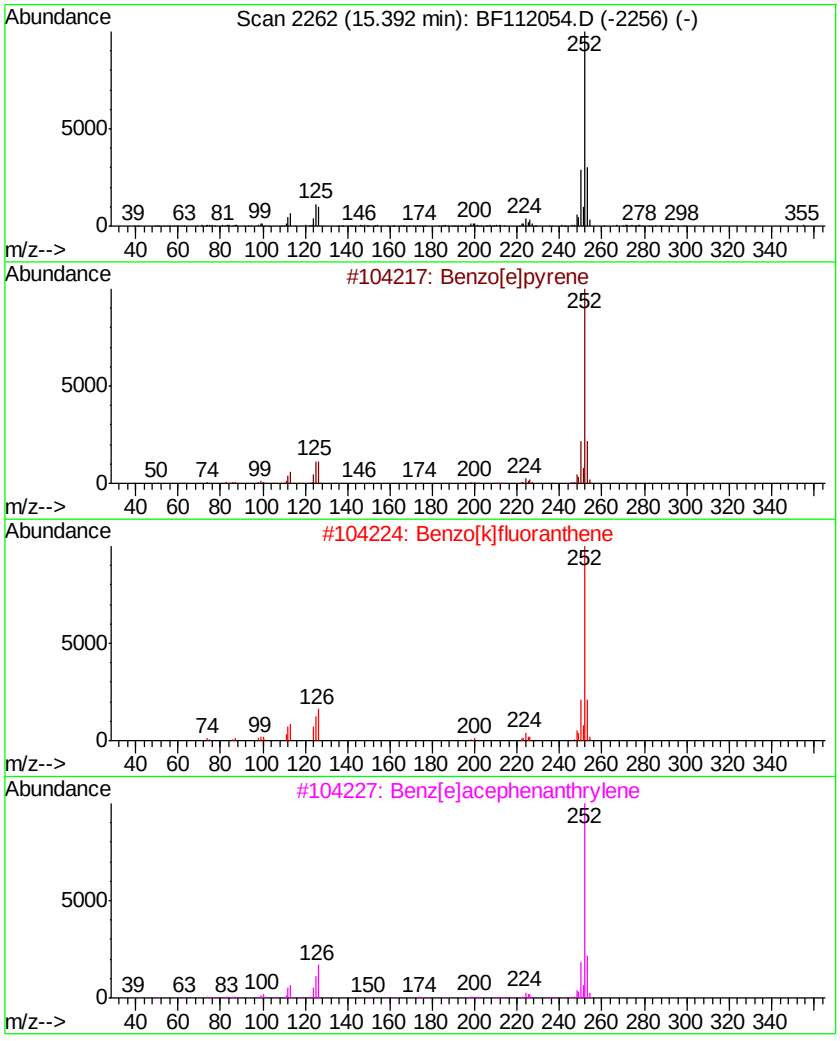
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

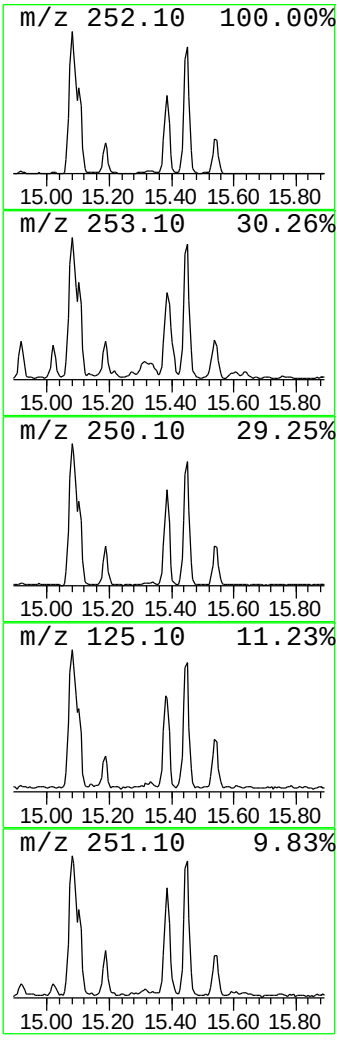
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.39	10.61 ng	652437	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF011419\
Data File : BF112054.D
Acq On : 14 Jan 2019 16:52
Operator : JU/SJ
Sample : K1135-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CPSB-12(5-6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.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
Butane, 2-methoxy...	2.17	2.4	ng	106943	1	6.87	894286	20.0
2-Pentanone, 4-hy...	5.09	5.8	ng	258920	1	6.87	894286	20.0
unknown6.65	6.65	69.6	ng	3113360	1	6.87	894286	20.0
2,4,7,9-Tetrameth...	9.34	2.3	ng	137244	3	9.90	1202510	20.0
1(2H)-Acenaphthyl...	10.82	2.2	ng	137923	4	11.39	1234600	20.0
9H-Fluorene, 1-me...	11.00	2.3	ng	141151	4	11.39	1234600	20.0
Phenanthrene, 1-m...	11.90	4.0	ng	245248	4	11.39	1234600	20.0
Phenanthrene, 2-m...	11.92	5.8	ng	356448	4	11.39	1234600	20.0
Anthracene, 2-met...	11.97	2.5	ng	151778	4	11.39	1234600	20.0
4H-Cyclopenta[def...	12.01	8.5	ng	524517	4	11.39	1234600	20.0
Naphthalene, 1-ph...	12.19	2.5	ng	156050	4	11.39	1234600	20.0
11H-Benzo[b]fluorene	13.16	4.3	ng	429402	5	14.03	2021780	20.0
11H-Benzo[a]fluor...	13.87	3.1	ng	308841	5	14.03	2021780	20.0
Triphenylene, 2-m...	14.42	2.5	ng	252627	5	14.03	2021780	20.0
Benzo[e]pyrene	15.39	10.6	ng	652437	6	15.52	1229290	20.0