LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

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-BF052919.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	5.293	541	545	556	rBV	1258581	1217099	24.78%	1.991%
2	6.322	716	720	735	rVB	1366275	1245516	25.36%	2.037%
3	6.457	740	743	747	rBV	1677363	1322115	26.92%	2.163%
4	6.692	780	783	787	rBV	2303040	1933300	39.36%	3.162%
5	6.851	806	810	813	rBV	1258358	1043617	21.25%	1.707%
6	7.245	874	877	886	rBV	844984	740478	15.08%	1.211%
7	7.975	997	1001	1003	rBV	3113574	2557333	52.07%	4.183%
8	7.998	1003	1005	1008	rVV	1506050	1198987	24.41%	1.961%
9	8.045	1010	1013	1022	rVB	71764	88895	1.81%	0.145%
10	8.686	1118	1122	1125	rBV	619636	527728	10.74%	0.863%
11	8.781	1135	1138	1144	rVB	401301	322026	6.56%	0.527%
12	9.045	1180	1183	1191	rBV	1589928	1362100	27.73%	2.228%
13	9.145	1197	1200	1205	rBV	222916	171002	3.48%	0.280%
14	9.239	1213	1216	1222	rVB	48092	61114	1.24%	0.100%
15	9.304	1224	1227	1232	rVV2	115158	160255	3.26%	0.262%
16	9.381	1237	1240	1243	rVV	178167	179505	3.65%	0.294%
17	9.410	1243	1245	1248	rVV	132431	108363	2.21%	0.177%
18	9.439	1248	1250	1253	rVV	211189	159973	3.26%	0.262%
19	9.498	1257	1260	1268	rVB	86831	96076	1.96%	0.157%
20	9.581	1270	1274	1280	rBV	129681	124980	2.54%	0.204%
21	9.722	1292	1298	1301	rBV	2801223	2583955	52.61%	4.227%
22	9.751	1301	1303	1306	rVV	602006	481907	9.81%	0.788%
23	9.781	1306	1308	1312	rVB	59249	55778	1.14%	0.091%
24	9.922	1328	1332	1337	rVB	794004	651112	13.26%	1.065%
25	10.039	1347	1352	1354	rBV2	48990	57611	1.17%	0.094%
26	10.128	1363	1367	1372	rBV4	41216	67463	1.37%	0.110%
27	10.222	1377	1383	1386	rVV4	29748	58330	1.19%	0.095%
28	10.263	1386	1390	1397	rVB	1320701	1039576	21.17%	1.701%
29	10.351	1403	1405	1407	rVB	76991	54572	1.11%	0.089%
30	10.392	1407	1412	1414	rVV4	37497	50774	1.03%	0.083%
31	10.422	1414	1417	1423	rVB	201277	184092	3.75%	0.301%
32	10.498	1426	1430	1435	rVV2	996698	923852	18.81%	1.511%
33	10.810	1476	1483	1486	rBV2	149682	190773	3.88%	0.312%
34	10.892	1494	1497	1500	rVB2	68428	69167	1.41%	0.113%

LSC Area Percent Report

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Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

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-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.939	1500	1505	1507	rBV3	70148	96859	1.97%	0.158%
36	10.998	1513	1515	1520	rVB2	66947	67791	1.38%	0.111%
37	11.045	1520	1523	1526	rBV	71766	82650	1.68%	0.135%
38	11.086	1527	1530	1533	rVV	242473	225657	4.59%	0.369%
39	11.192	1544	1548	1550	rBV	2504291	2384980	48.56%	3.901%
40	11.222	1550	1553	1556	rVV	4037568	3637352	74.06%	5.950%
41	11.269	1556	1561	1564	rVV	1414880	1181129	24.05%	1.932%
42	11.304	1564	1567	1571	rVB3	54010	62623	1.28%	0.102%
43	11.416	1581	1586	1590	rBV	491091	537507	10.94%	0.879%
44	11.492	1596	1599	1601	rBV2	58812	53330	1.09%	0.087%
45	11.604	1615	1618	1623	rBV	48572	53367	1.09%	0.087%
46	11.692	1628	1633	1635	rBV	396337	372127	7.58%	0.609%
47	11.722	1635	1638	1643	rVV	543523	556969	11.34%	0.911%
48	11.769	1643	1646	1648	rVV	248513	211518	4.31%	0.346%
49	11.804	1648	1652	1654	rVV	827275	749249	15.25%	1.226%
50	11.827	1654	1656	1659	rVB	228359	188829	3.84%	0.309%
51	11.986	1681	1683	1686	rBV	271604	231245	4.71%	0.378%
52	12.139	1706	1709	1711	rVB	63453	51345	1.05%	0.084%
53	12.169	1711	1714	1716	rBV	78833	60861	1.24%	0.100%
54	12.192	1716	1718	1721	rVB2	84305	63170	1.29%	0.103%
55	12.239	1723	1726	1729	rBV	186520	206160	4.20%	0.337%
56	12.280	1729	1733	1735	rVV2	123742	128375	2.61%	0.210%
57	12.322	1738	1740	1745	rVB3	101872	137615	2.80%	0.225%
58	12.398	1749	1753	1757	rBV	4002962	3539895	72.07%	5.791%
59	12.451	1759	1762	1767	rBV3	102790	144811	2.95%	0.237%
60	12.516	1771	1773	1775	rBV2	77358	85480	1.74%	0.140%
61	12.545	1776	1778	1783	rVB	111194	122244	2.49%	0.200%
62	12.627	1786	1792	1794	rBV2	3143903	3600797	73.31%	5.890%
63	12.651	1794	1796	1798	rVV2	145962	126719	2.58%	0.207%
64	12.674	1798	1800	1806	rVB2	184605	214742	4.37%	0.351%
65	12.745	1809	1812	1814	rBV	257902	214983	4.38%	0.352%
66	12.774	1814	1817	1823	rVB	1438828	1347091	27.43%	2.204%
67	12.845	1824	1829	1832	rBV3	267305	419538	8.54%	0.686%
68	12.927	1841	1843	1845	rBV	198020	207290	4.22%	0.339%
69	12.951	1845	1847	1851	rVB	600386	508520	10.35%	0.832%
70	13.016	1855	1858	1861	rBV	502126	449464	9.15%	0.735%
71	13.057	1861	1865	1867	rBV	446605	460482	9.38%	0.753%

LSC Area Percent Report

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Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.145	1877	1880	1883	rBV	259982	209883	4.27%	0.343%
73	13.174	1883	1885	1889	rBV2	232248	231536	4.71%	0.379%
74	13.451	1930	1932	1938	rVB	204528	235334	4.79%	0.385%
75	13.563	1948	1951	1954	rBV2	306098	383684	7.81%	0.628%
76	13.592	1954	1956	1958	rVV	258982	231491	4.71%	0.379%
77	13.616	1958	1960	1964	rVB2	240016	260108	5.30%	0.425%
78	13.816	1989	1994	1997	rBV2	3455405	4911583	100.00%	8.034%
79	13.839	1997	1998	2005	rVB	1820236	1451966	29.56%	2.375%
80	13.921	2010	2012	2015	rVB	309447	219430	4.47%	0.359%
81	14.004	2023	2026	2028	rBV2	159860	161302	3.28%	0.264%
82	14.168	2051	2054	2056	rBV2	189889	246201	5.01%	0.403%
83	14.198	2057	2059	2062	rVV	404864	427892	8.71%	0.700%
84	14.233	2063	2065	2069	rVB	210596	184487	3.76%	0.302%
85	14.821	2160	2165	2167	rBV	1599034	2283475	46.49%	3.735%
86	14.915	2179	2181	2184	rVB	452223	410108	8.35%	0.671%
87	15.092	2208	2211	2217	rVB	962846	1123370	22.87%	1.838%
88	15.151	2217	2221	2224	rBV	1404442	1554164	31.64%	2.542%
89	15.210	2227	2231	2234	rBV	1667198	1921169	39.12%	3.143%
90	16.527	2452	2455	2464	rVB2	463939	813029	16.55%	1.330%

Sum of corrected areas: 61132400

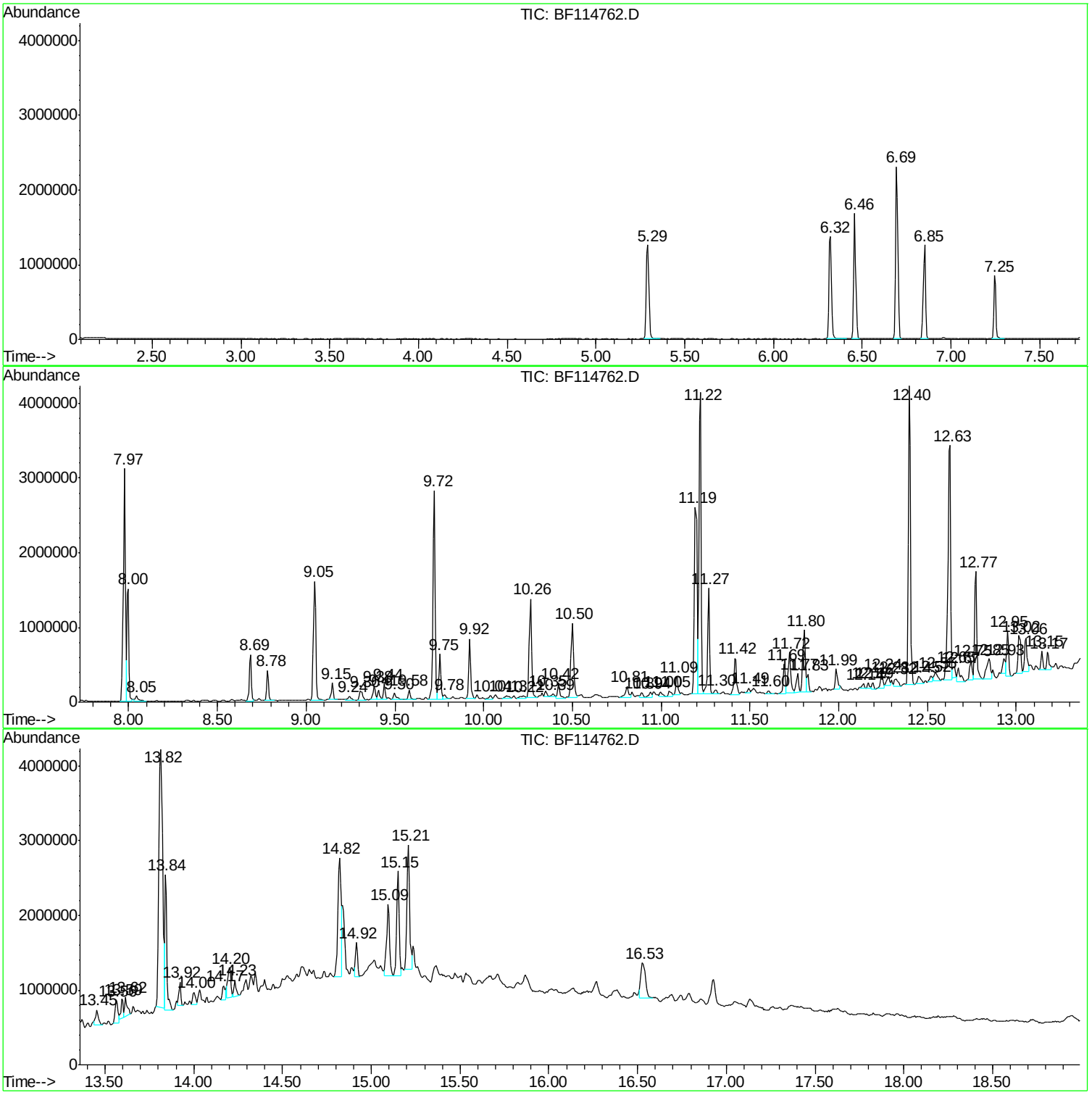
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

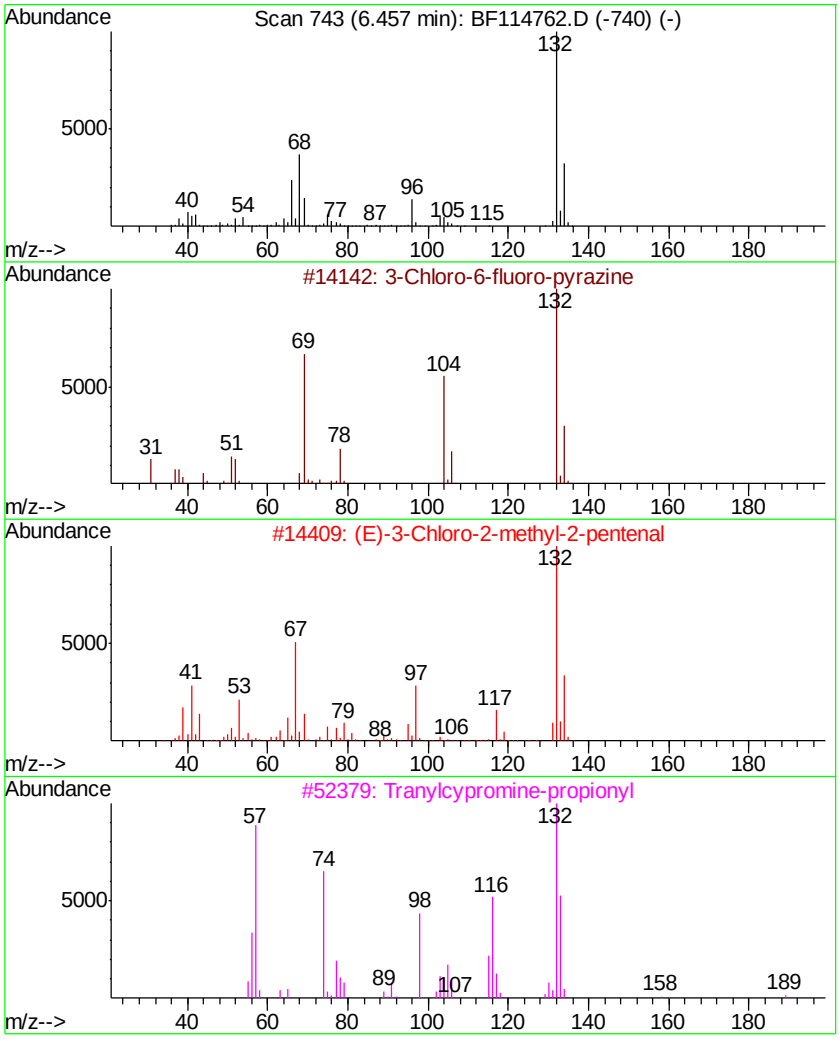
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

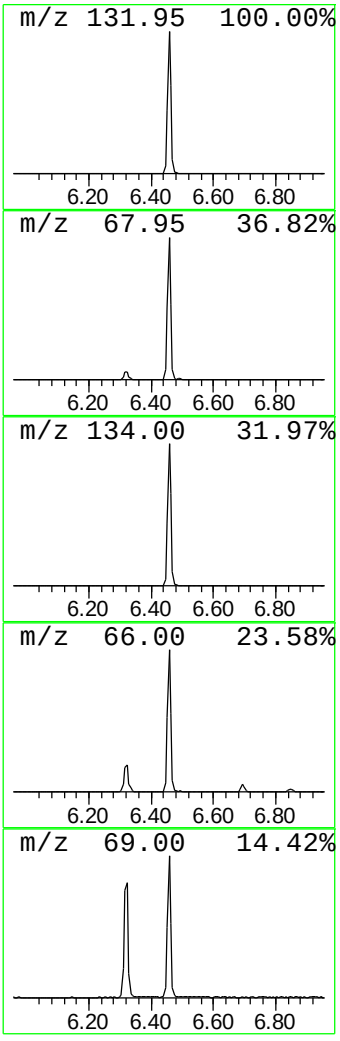
****

Peak Number 1 unknown6.46 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.46	13.68 ng	1322120	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

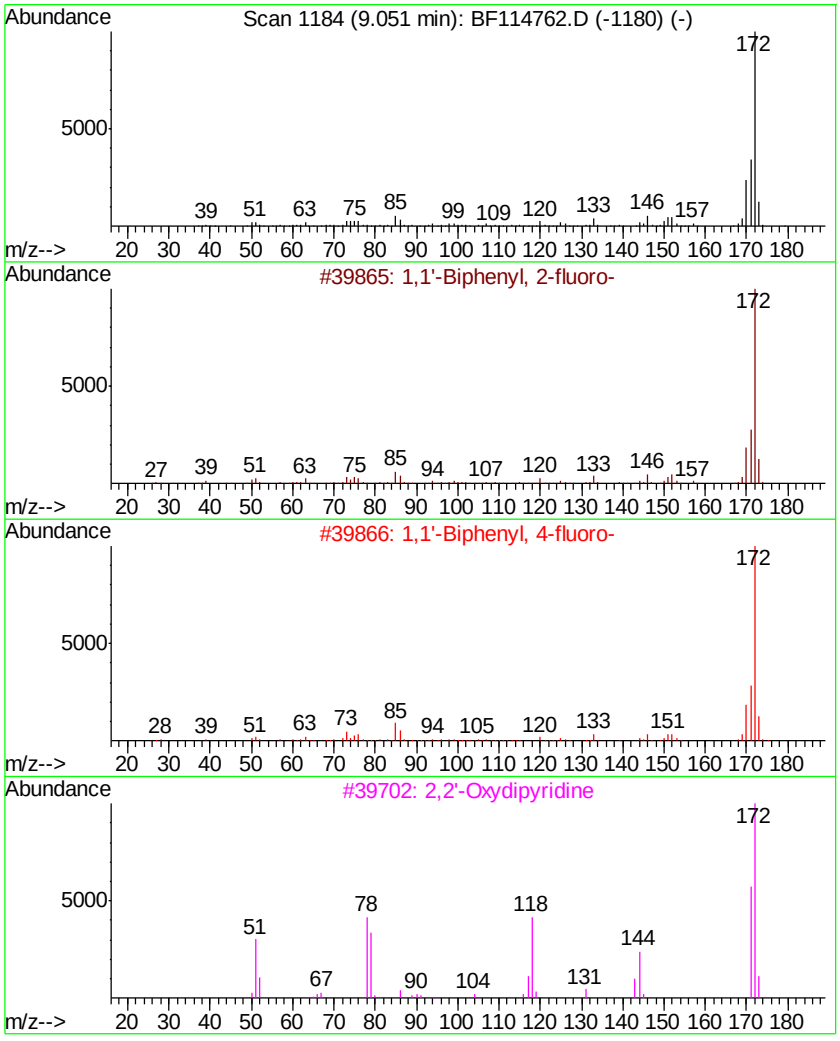
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

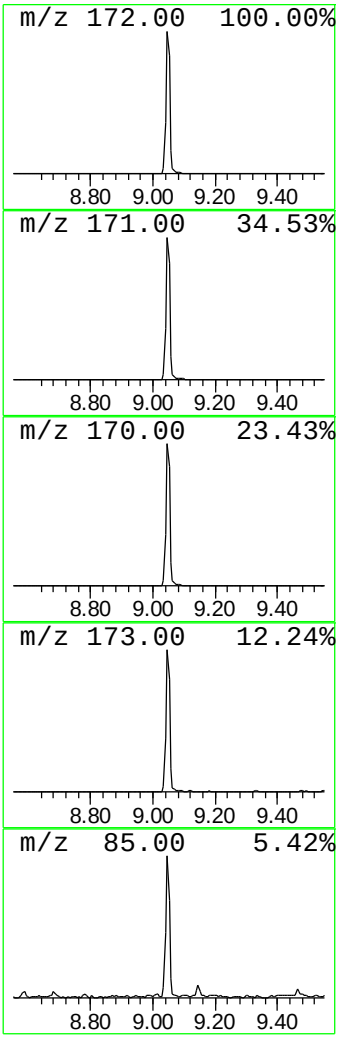
****

Peak Number 3 1,1'-Biphenyl, 2-fluoro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	10.54 ng	1362100	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-fluoro-	172	C12H9F	000321-60-8	96
2	1,1'-Biphenyl, 4-fluoro-	172	C12H9F	000324-74-3	93
3	2,2'-Oxydipyridine	172	C10H8N2O	053258-94-9	58
4	4-(2-Hydroxyphenyl)pyrimidine	172	C10H8N2O	068535-55-7	53
5	2-(2-Hydroxyphenyl)pyrimidine	172	C10H8N2O	064435-20-7	49





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Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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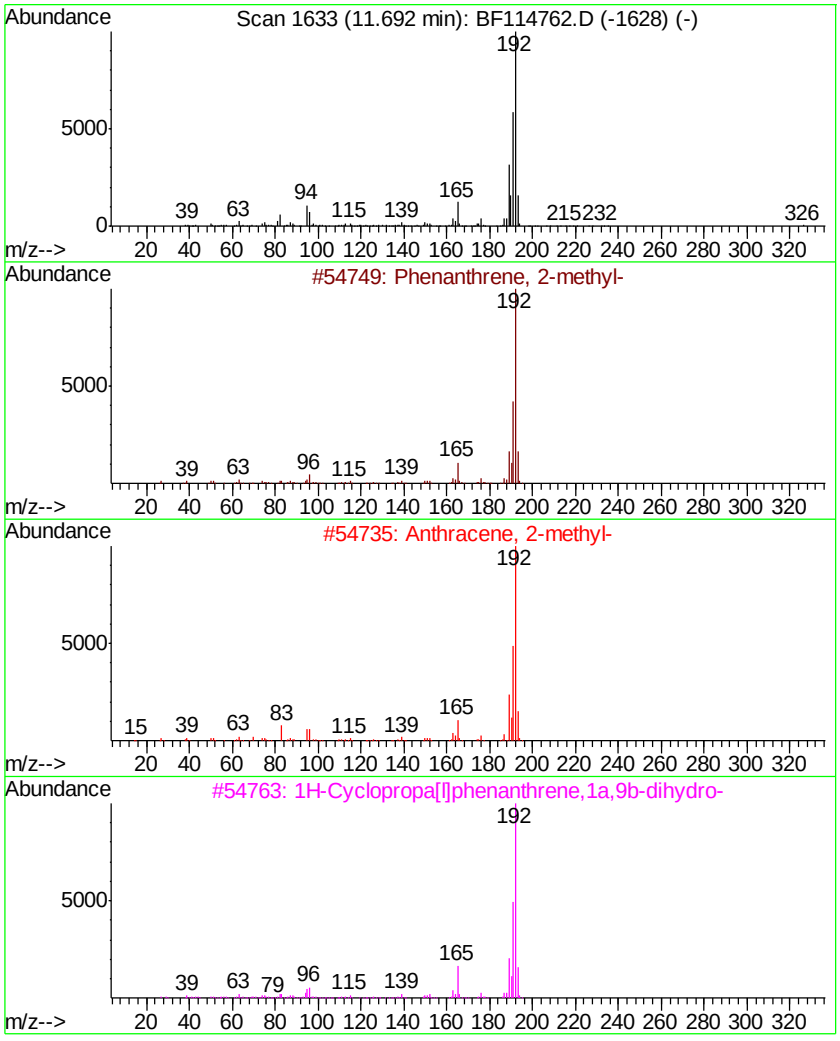
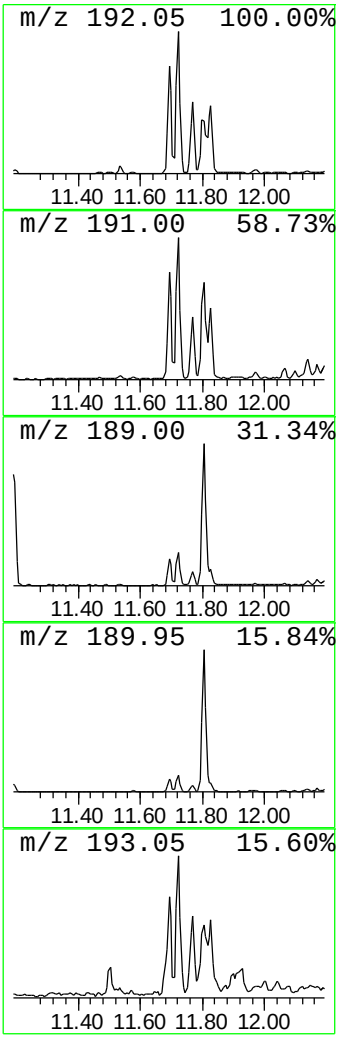
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	3.12 ng	372127	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

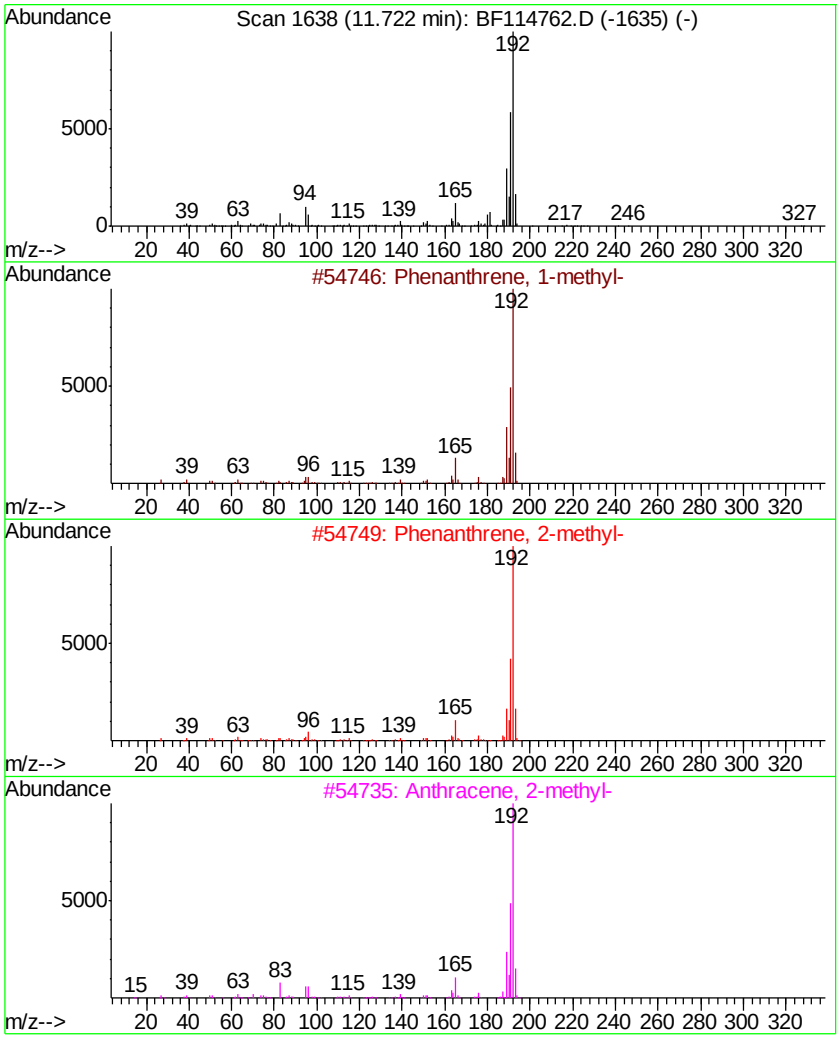
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

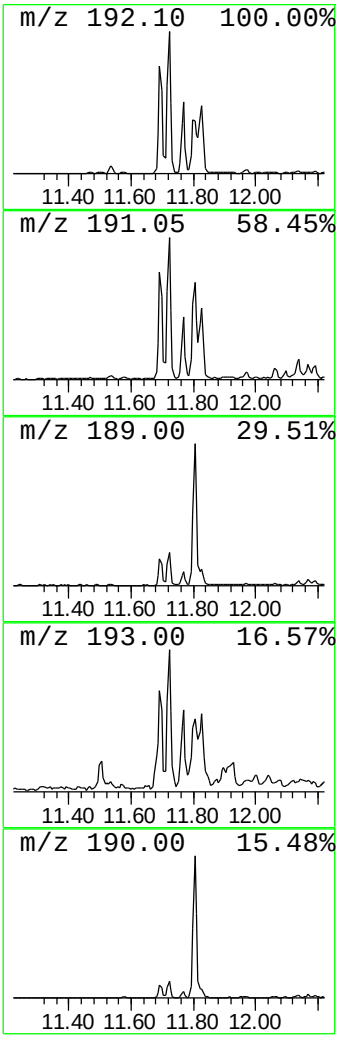
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	4.67 ng	556969	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

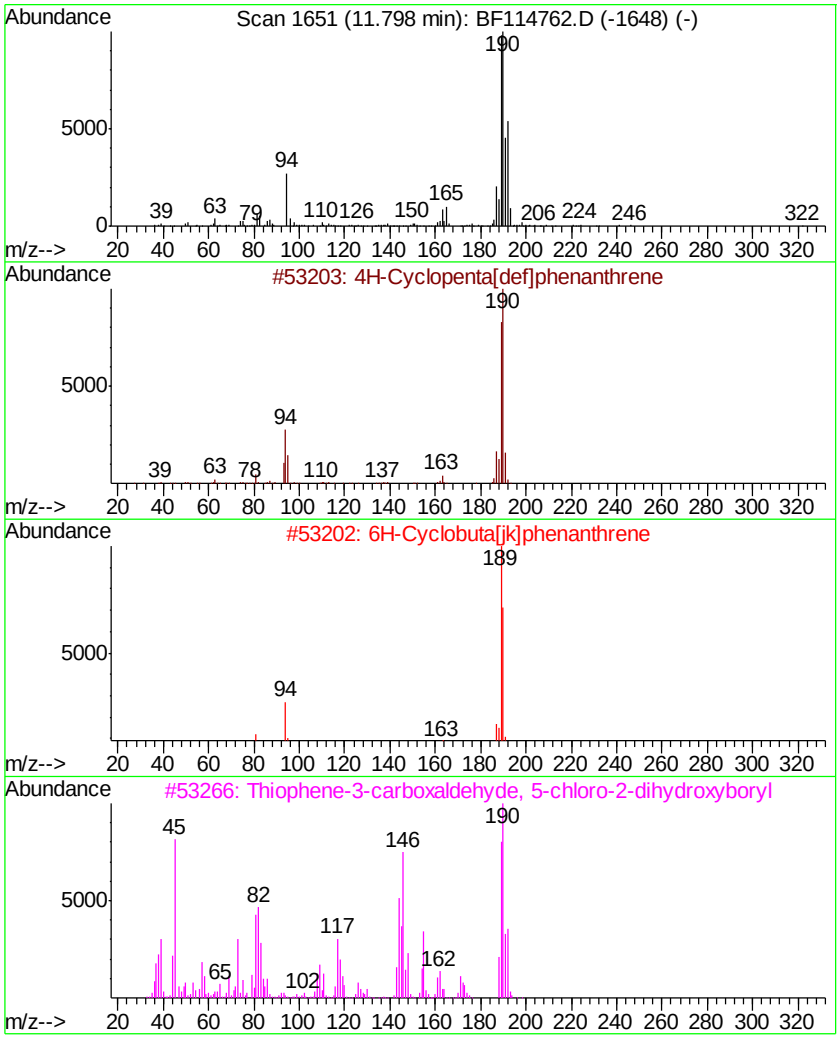
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

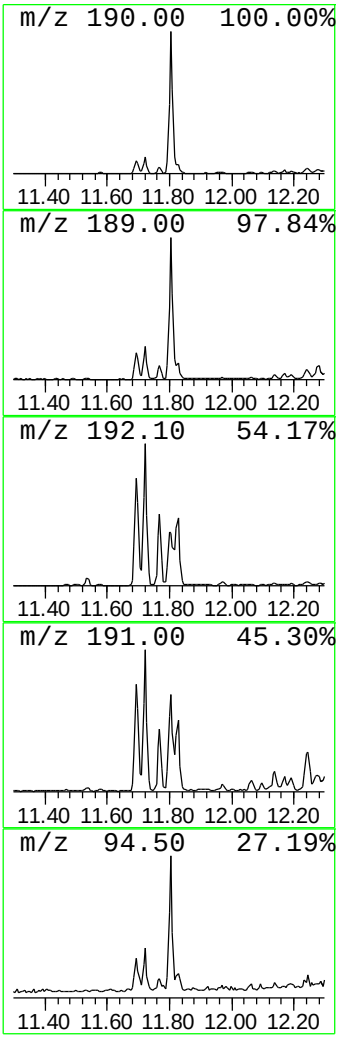
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	6.28 ng	749249	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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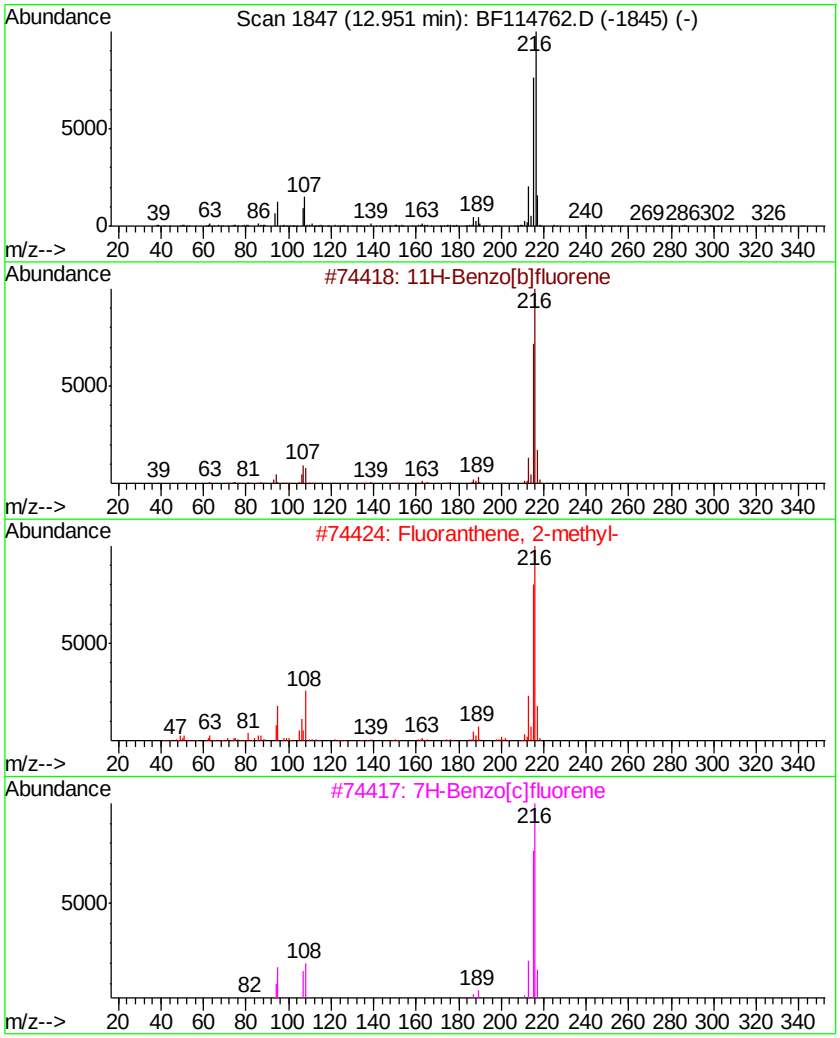
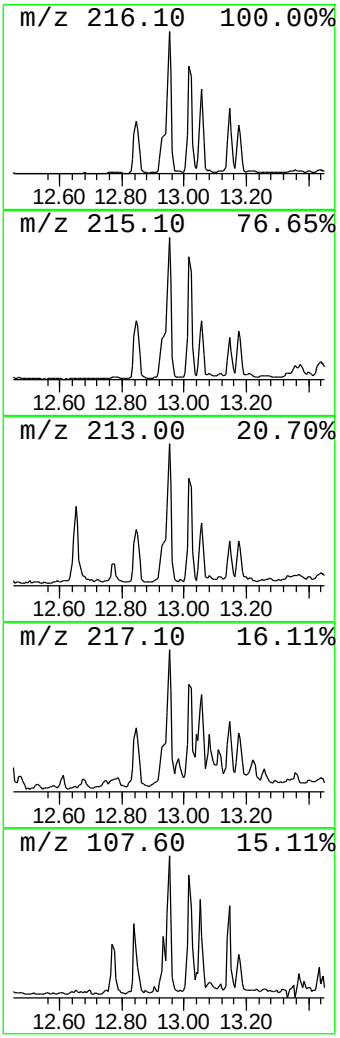
Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	2.07 ng	508520	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
3	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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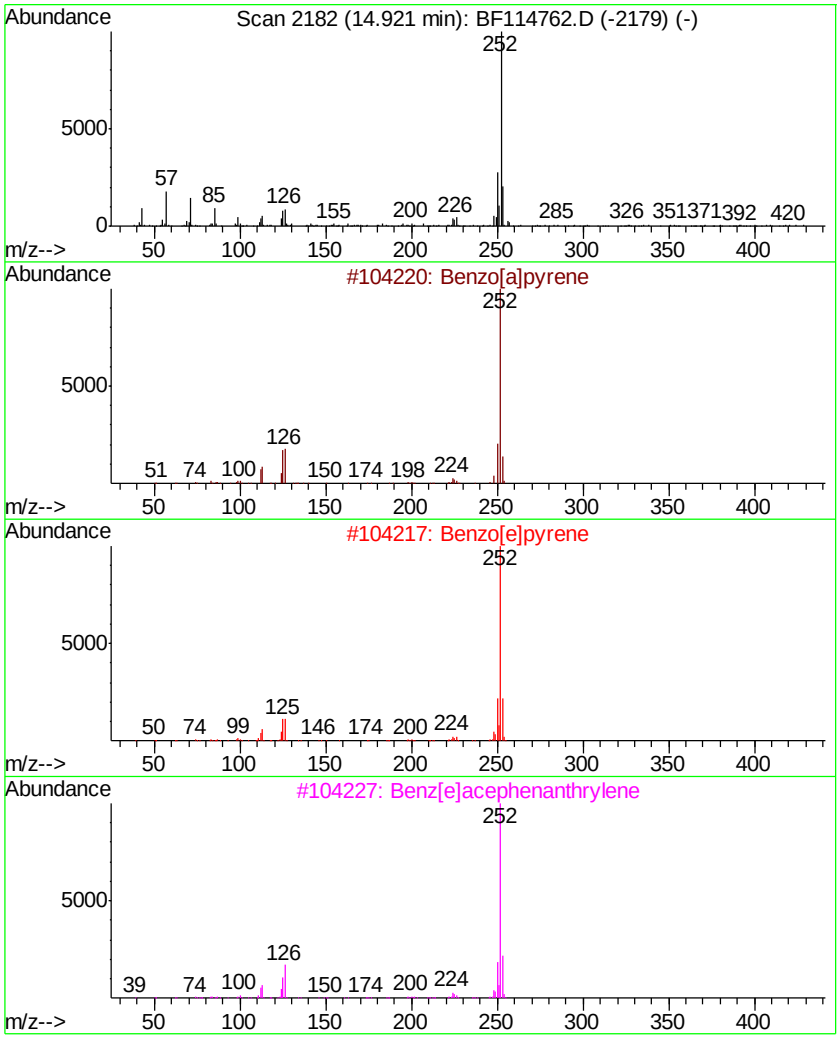
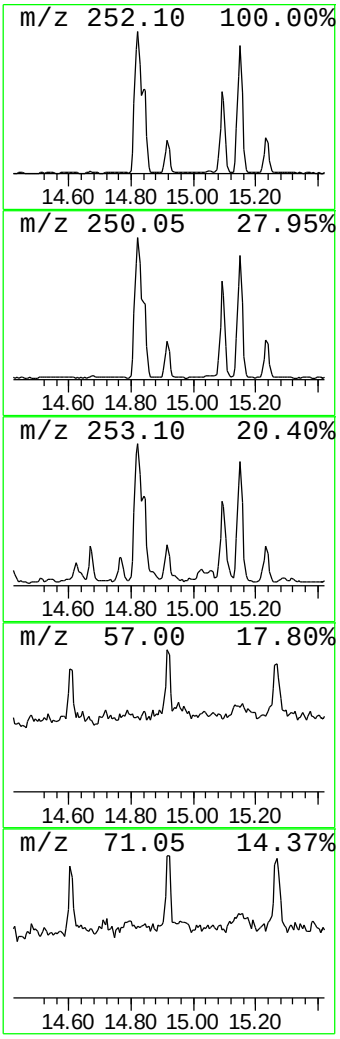
Peak Number 8 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	4.27 ng	410108	Perylene-d12	15.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	94
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5	Perylene	252	C20H12	000198-55-0	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF060119\
Data File : BF114762.D
Acq On : 1 Jun 2019 17:32
Operator : HP/JU
Sample : K2639-05 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : NB-07-053019-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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
unknown6.46	6.46	13.7	ng	1322120	1	6.69	1933300	20.0
1,1'-Biphenyl, 2-...	9.05	10.5	ng	1362100	3	9.72	2583960	20.0
Phenanthrene, 2-m...	11.69	3.1	ng	372127	4	11.19	2384980	20.0
Phenanthrene, 1-m...	11.72	4.7	ng	556969	4	11.19	2384980	20.0
4H-Cyclopenta[def...	11.80	6.3	ng	749249	4	11.19	2384980	20.0
11H-Benzo[b]fluorene	12.95	2.1	ng	508520	5	13.82	4911580	20.0
Benzo[e]pyrene	14.92	4.3	ng	410108	6	15.21	1921170	20.0