LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-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-BF040319.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	5.298	543	546	570	rBV	347315	464087	4.88%	0.469%
2	6.334	719	722	740	rBV	412768	536566	5.64%	0.543%
3	6.457	740	743	751	rBV	554804	502709	5.29%	0.509%
4	6.687	778	782	794	rBV	702966	628952	6.62%	0.636%
5	6.839	805	808	812	rBV	438954	398026	4.19%	0.403%
6	7.245	874	877	889	rBV	229449	253842	2.67%	0.257%
7	7.969	996	1000	1001	rBV	884932	723692	7.61%	0.732%
8	7.992	1001	1004	1007	rVV	3357756	2895960	30.47%	2.929%
9	8.039	1010	1012	1021	rVB	148004	148501	1.56%	0.150%
10	8.681	1118	1121	1128	rBV	1046462	985642	10.37%	0.997%
11	8.781	1134	1138	1149	rVB	673300	567299	5.97%	0.574%
12	9.045	1179	1183	1190	rBV	694774	545127	5.73%	0.551%
13	9.145	1197	1200	1206	rVB	355855	293571	3.09%	0.297%
14	9.245	1214	1217	1223	rVB	144580	162452	1.71%	0.164%
15	9.310	1223	1228	1233	rBV	200842	286484	3.01%	0.290%
16	9.386	1237	1241	1243	rBV	293153	292457	3.08%	0.296%
17	9.410	1243	1245	1249	rVB	188868	149473	1.57%	0.151%
18	9.504	1255	1261	1266	rBV2	116015	157727	1.66%	0.160%
19	9.586	1269	1275	1281	rBV	128041	127107	1.34%	0.129%
20	9.722	1292	1298	1301	rBV3	883786	878132	9.24%	0.888%
21	9.757	1301	1304	1308	rVV	2543783	2085581	21.94%	2.110%
22	9.928	1330	1333	1338	rVV	1887919	1711219	18.00%	1.731%
23	10.275	1388	1392	1395	rBV	2936233	2569637	27.03%	2.599%
24	10.339	1401	1403	1404	rVV	175950	162254	1.71%	0.164%
25	10.357	1404	1406	1408	rVV	347125	283659	2.98%	0.287%
26	10.404	1412	1414	1416	rVV	158473	143001	1.50%	0.145%
27	10.427	1416	1418	1424	rVB	426389	355810	3.74%	0.360%
28	10.510	1424	1432	1436	rBV2	708407	854430	8.99%	0.864%
29	10.557	1436	1440	1443	rVB2	90435	120408	1.27%	0.122%
30	10.639	1451	1454	1460	rVB	119811	122660	1.29%	0.124%
31	10.816	1477	1484	1487	rBV2	317459	400615	4.21%	0.405%
32	10.845	1487	1489	1492	rVV	134685	128399	1.35%	0.130%
33	10.898	1495	1498	1501	rVB2	140406	136290	1.43%	0.138%
34	11.057	1522	1525	1529	rBV	129126	155255	1.63%	0.157%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.104	1529	1533	1540	rVB	1014106	952855	10.02%	0.964%
36	11.251	1546	1558	1560	rBV	6232660	9505608	100.00%	9.615%
37	11.292	1560	1565	1568	rVV	3824415	3430382	36.09%	3.470%
38	11.322	1568	1570	1575	rVV	291333	285336	3.00%	0.289%
39	11.445	1586	1591	1594	rBV	1477547	1412376	14.86%	1.429%
40	11.504	1598	1601	1605	rVV3	236017	295607	3.11%	0.299%
41	11.539	1605	1607	1612	rVV2	141142	202672	2.13%	0.205%
42	11.621	1618	1621	1626	rVB	102010	120672	1.27%	0.122%
43	11.710	1632	1636	1638	rBV	999442	874623	9.20%	0.885%
44	11.739	1638	1641	1645	rVB	1388174	1163893	12.24%	1.177%
45	11.786	1646	1649	1652	rBV	592047	511447	5.38%	0.517%
46	11.822	1652	1655	1658	rBV	1993415	2219793	23.35%	2.245%
47	11.892	1664	1667	1669	rBV	141338	133322	1.40%	0.135%
48	11.916	1669	1671	1674	rVB	171646	134774	1.42%	0.136%
49	12.004	1682	1686	1689	rVB	810525	668206	7.03%	0.676%
50	12.151	1708	1711	1714	rBV2	155445	134042	1.41%	0.136%
51	12.186	1714	1717	1719	rBV	170487	151280	1.59%	0.153%
52	12.263	1725	1730	1732	rBV	320979	383147	4.03%	0.388%
53	12.298	1732	1736	1739	rVV	228171	292930	3.08%	0.296%
54	12.357	1742	1746	1751	rVB3	159011	218246	2.30%	0.221%
55	12.439	1753	1760	1763	rBV	5865892	8900119	93.63%	9.003%
56	12.486	1766	1768	1774	rVB2	232451	211738	2.23%	0.214%
57	12.569	1778	1782	1785	rBV2	535209	542254	5.70%	0.549%
58	12.663	1791	1798	1802	rBV3	5045669	9019205	94.88%	9.123%
59	12.704	1802	1805	1810	rVB2	381447	427614	4.50%	0.433%
60	12.768	1813	1816	1818	rBV	635150	608049	6.40%	0.615%
61	12.792	1818	1820	1822	rVV	638398	572318	6.02%	0.579%
62	12.810	1822	1823	1828	rVB	425201	315972	3.32%	0.320%
63	12.874	1828	1834	1836	rBV2	513359	846910	8.91%	0.857%
64	12.898	1836	1838	1841	rVB	384080	292431	3.08%	0.296%
65	12.957	1844	1848	1849	rBV3	479373	514995	5.42%	0.521%
66	12.980	1849	1852	1855	rVB	1682782	1544457	16.25%	1.562%
67	13.045	1859	1863	1866	rBV	1731558	1644154	17.30%	1.663%
68	13.086	1866	1870	1876	rVB4	661872	912335	9.60%	0.923%
69	13.139	1876	1879	1882	rBV2	152289	145177	1.53%	0.147%
70	13.174	1882	1885	1888	rBV	282124	219476	2.31%	0.222%
71	13.204	1888	1890	1894	rBV3	319237	315842	3.32%	0.319%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.380	1914	1920	1921	rBV6	198953	310606	3.27%	0.314%
73	13.398	1921	1923	1926	rVB	153472	148609	1.56%	0.150%
74	13.463	1931	1934	1937	rBV2	222180	278306	2.93%	0.282%
75	13.492	1937	1939	1943	rVB4	108727	113665	1.20%	0.115%
76	13.598	1953	1957	1959	rBV	549837	593583	6.24%	0.600%
77	13.621	1959	1961	1963	rVV	647564	540340	5.68%	0.547%
78	13.651	1963	1966	1972	rVB3	466596	829721	8.73%	0.839%
79	13.845	1992	1999	2002	rBV2	3379823	5310486	55.87%	5.372%
80	13.880	2002	2005	2012	rVV	2844711	3279219	34.50%	3.317%
81	13.957	2015	2018	2021	rVV	1028751	876841	9.22%	0.887%
82	13.998	2023	2025	2030	rVV3	285752	380910	4.01%	0.385%
83	14.039	2030	2032	2034	rVV	346498	298886	3.14%	0.302%
84	14.074	2034	2038	2041	rVB2	377280	480814	5.06%	0.486%
85	14.198	2056	2059	2061	rBV2	305881	285189	3.00%	0.288%
86	14.233	2063	2065	2068	rVV	529037	494742	5.20%	0.500%
87	14.268	2069	2071	2074	rVB2	243273	197698	2.08%	0.200%
88	14.333	2080	2082	2084	rVB	321574	239414	2.52%	0.242%
89	14.357	2084	2086	2088	rVV	293424	276381	2.91%	0.280%
90	14.380	2088	2090	2093	rVB	510895	424076	4.46%	0.429%
91	14.715	2145	2147	2153	rVB	234755	269162	2.83%	0.272%
92	14.874	2168	2174	2176	rBV	2106206	3307705	34.80%	3.346%
93	14.968	2187	2190	2196	rVB	579719	581587	6.12%	0.588%
94	15.151	2217	2221	2227	rVB	1186366	1583229	16.66%	1.602%
95	15.215	2227	2232	2236	rVV	2033469	2516010	26.47%	2.545%
96	15.268	2237	2241	2243	rVV	457515	617100	6.49%	0.624%
97	15.298	2243	2246	2252	rVB	673709	873282	9.19%	0.883%
98	16.639	2468	2474	2480	rVB	852858	1560858	16.42%	1.579%
99	17.051	2538	2544	2555	rBV	576539	1213063	12.76%	1.227%
100	17.274	2578	2582	2596	rVB	265863	625301	6.58%	0.633%

Sum of corrected areas: 98858064

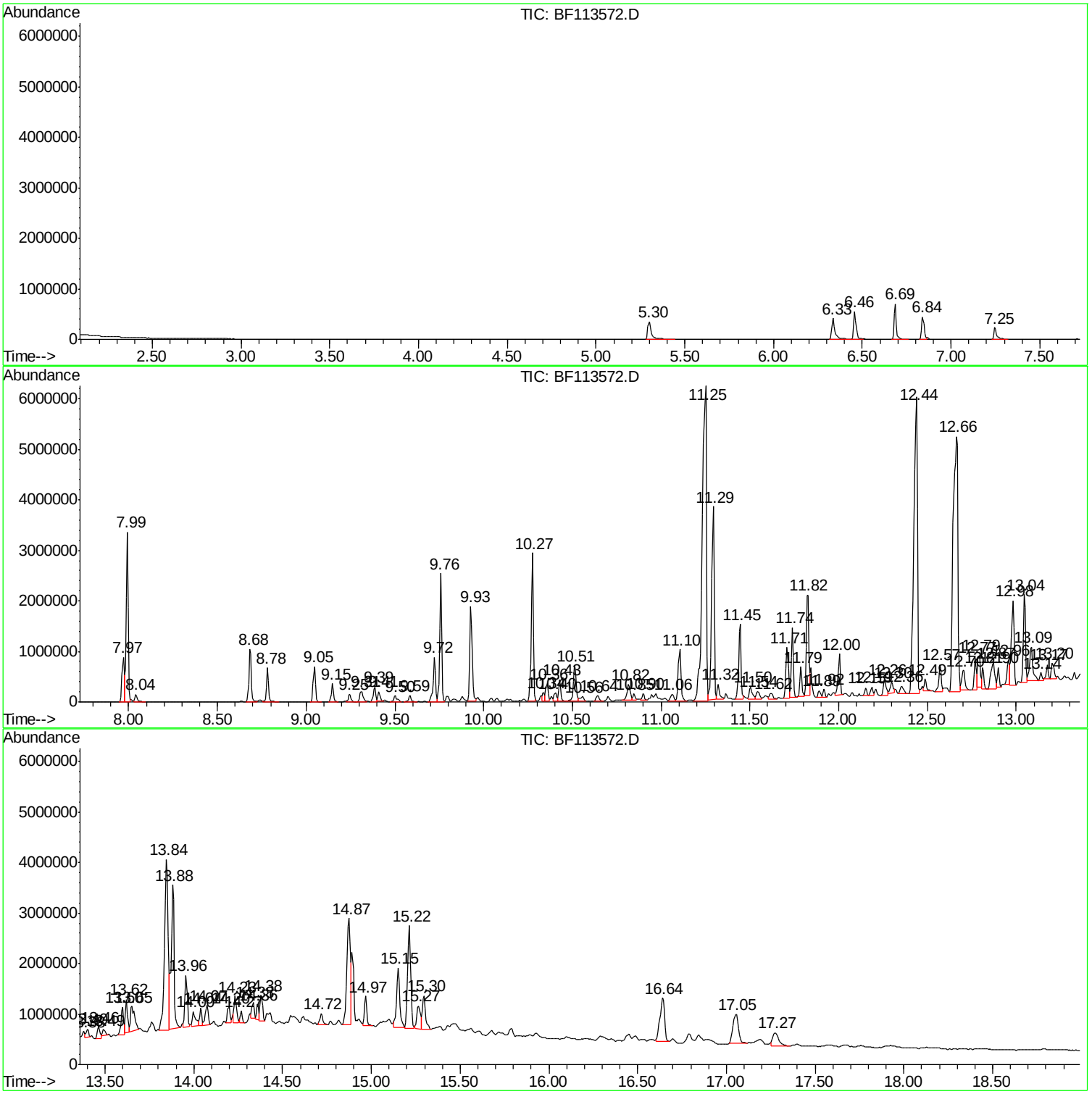
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

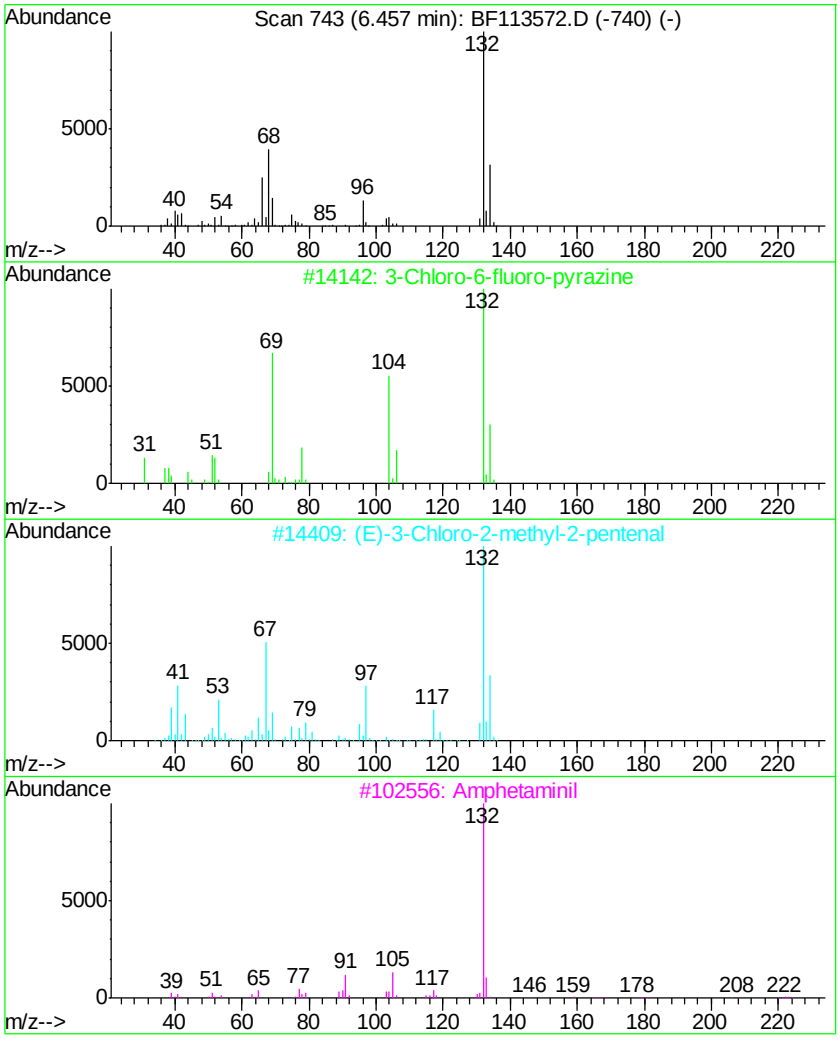
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

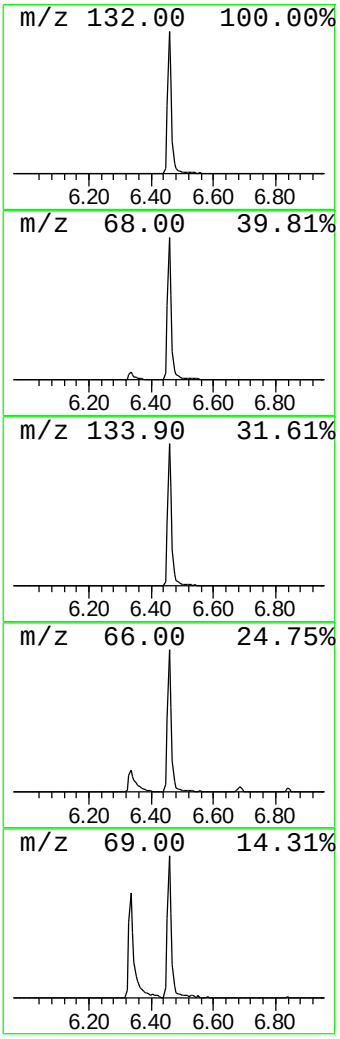
****

Peak Number 1 unknown6.46 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.46	15.99 ng	502709	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	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

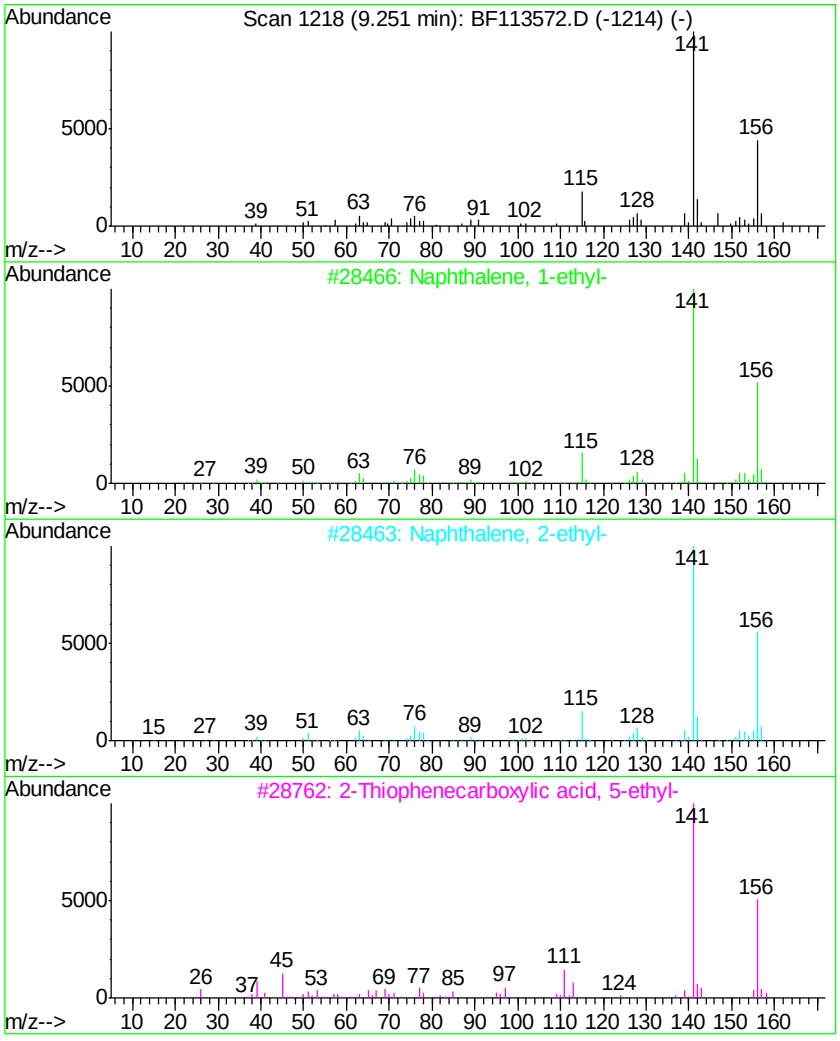
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

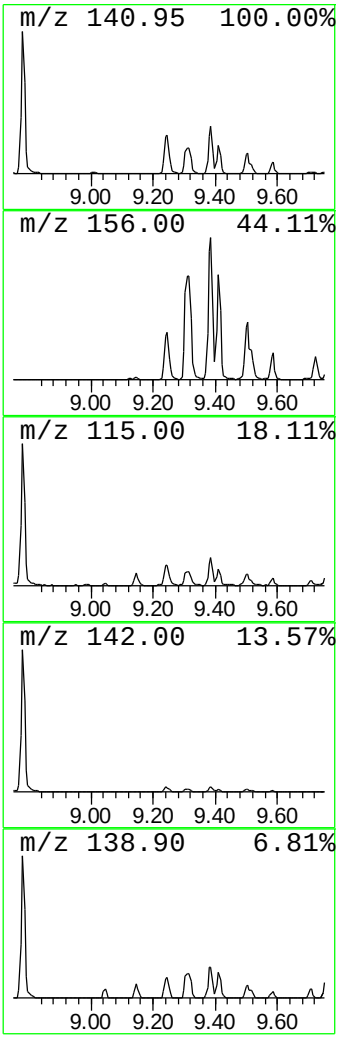
****

Peak Number 3 Naphthalene, 1-ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.25	3.70 ng	162452	Acenaphthene-d10	9.72

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	96
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	80
4	2,5-Dimethoxyfluorobenzene	156	C8H9FO2	082830-49-7	59
5	Methyl phenylphosphinic acid	156	C7H9O2P	004271-13-0	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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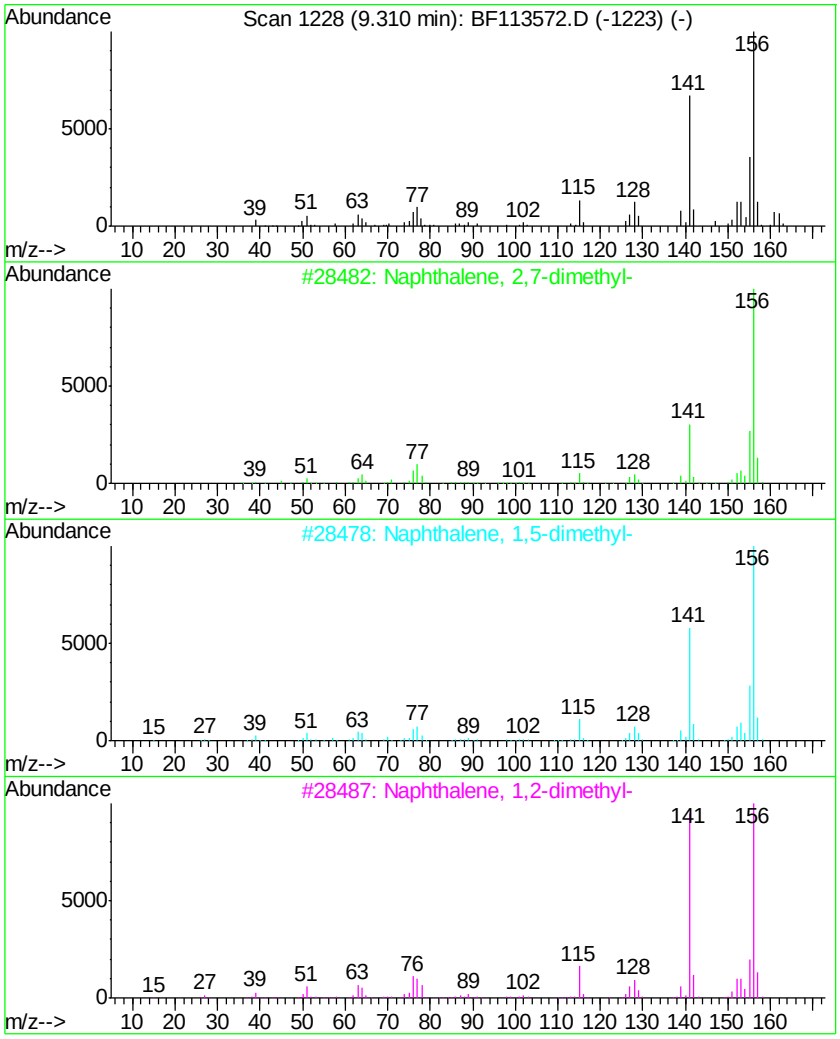
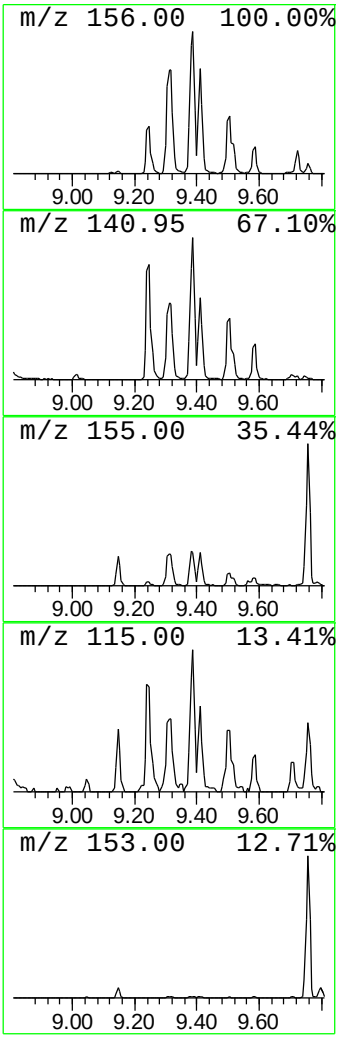
Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.31	6.52 ng	286484	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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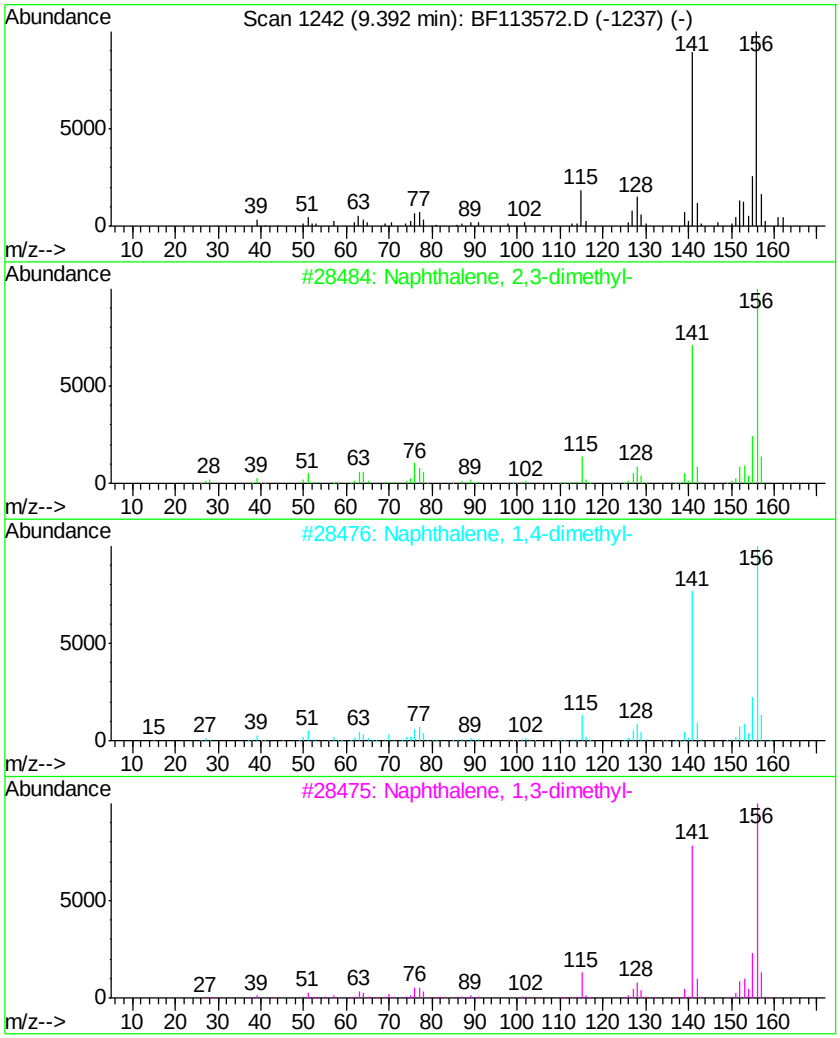
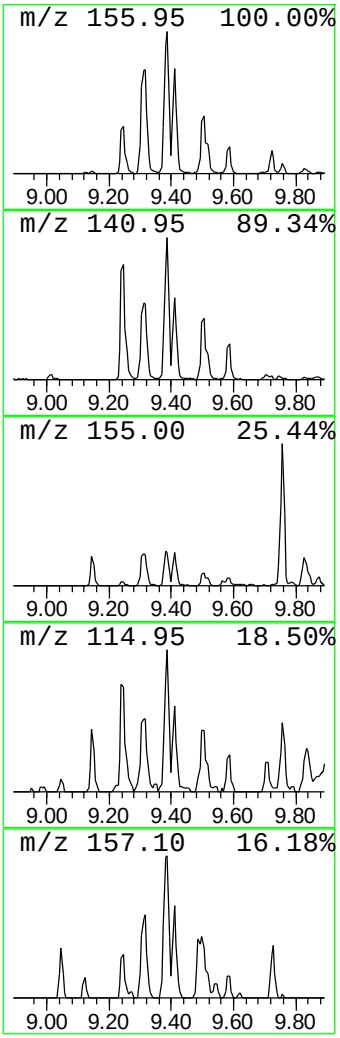
Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.39	6.66 ng	292457	Acenaphthene-d10	9.72

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

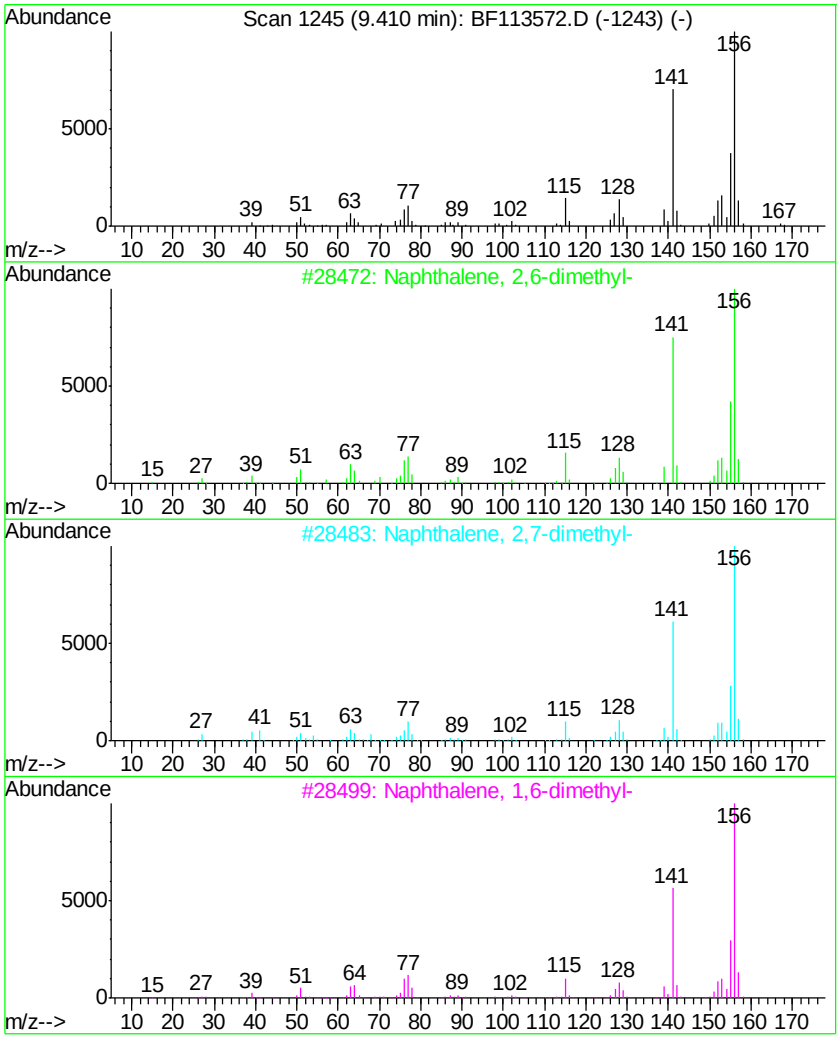
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

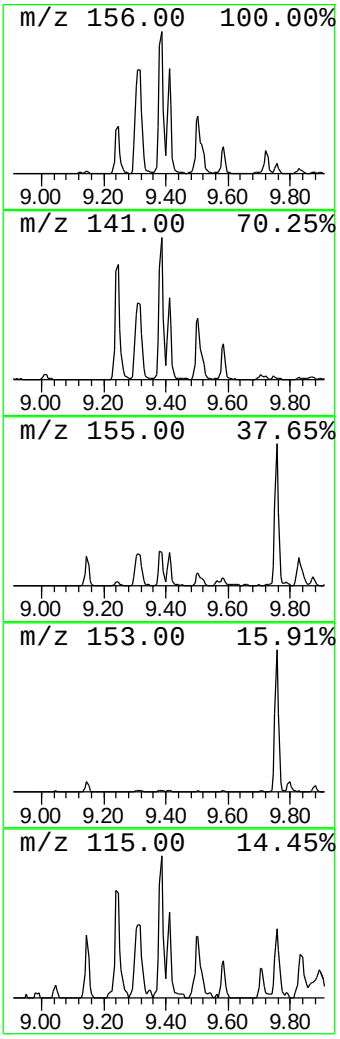
****

Peak Number 6 Naphthalene, 2,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.41	3.40 ng	149473	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95





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Operator : JU/SJ
Sample : K2197-03 5X
Misc :
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ClientSampleId : CL-02-040219-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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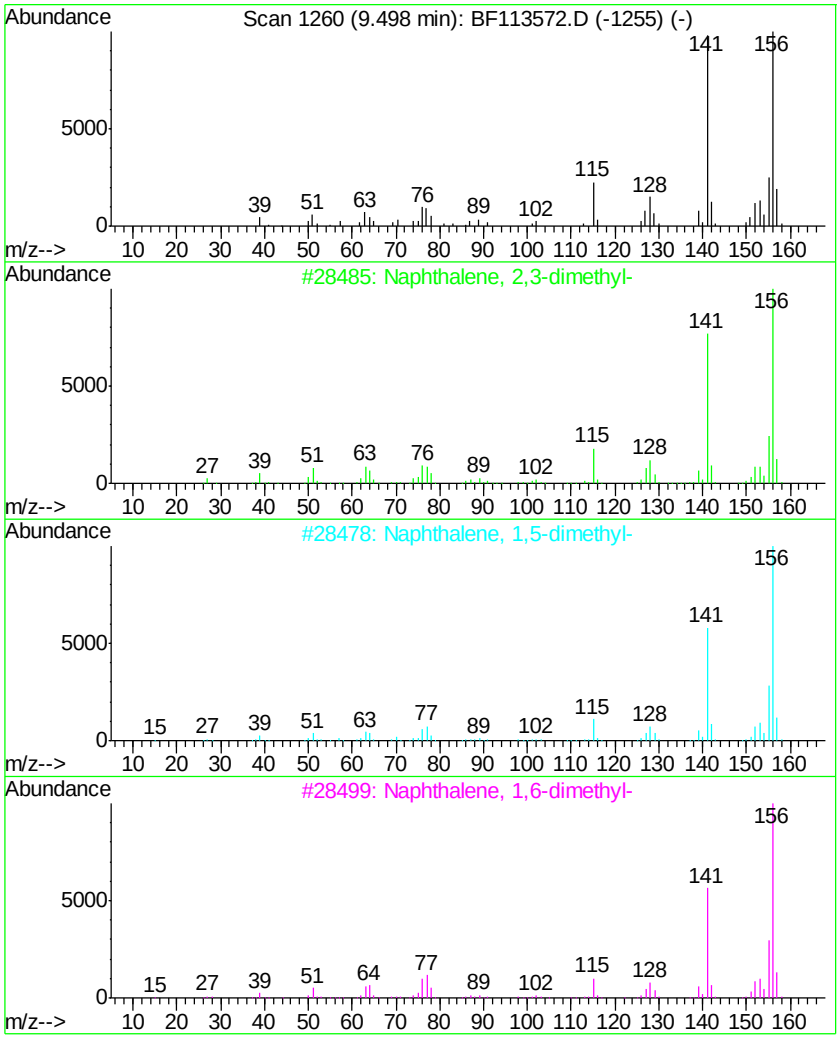
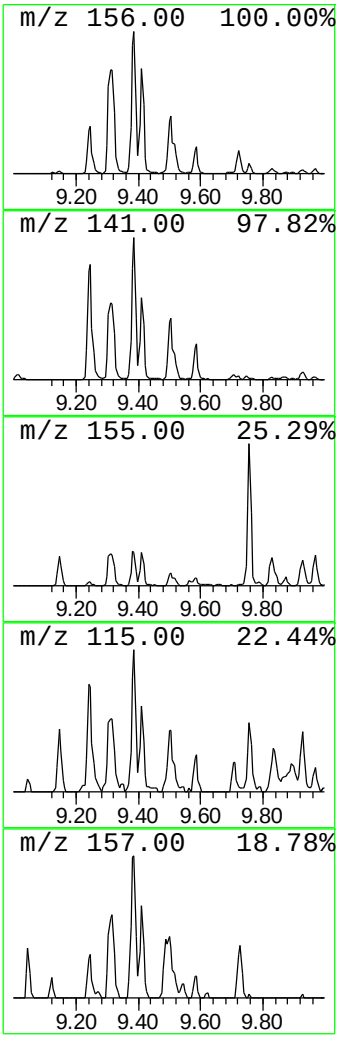
Peak Number 7 Naphthalene, 1,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	3.59 ng	157727	Acenaphthene-d10	9.72

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, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





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Sample : K2197-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : CL-02-040219-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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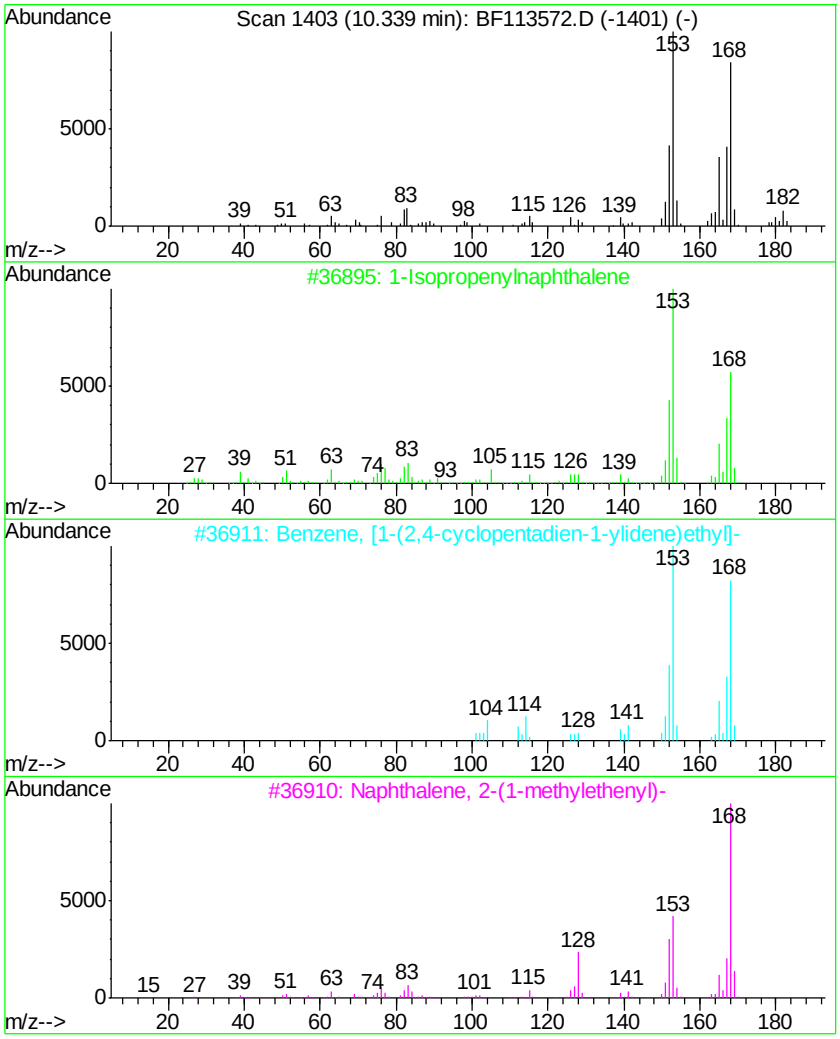
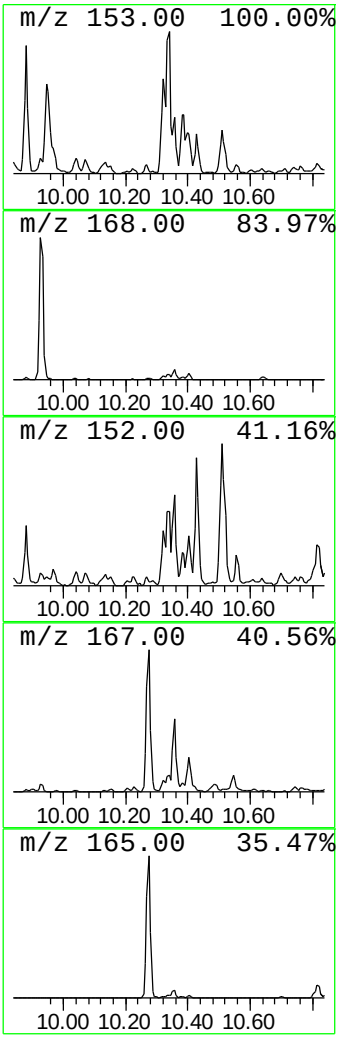
Peak Number 8 1-Isopropenylnaphthalene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.34	3.70 ng	162254	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	93
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	81
3	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	52
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	47
5	1-Fluoro-1-hex-1-ynyl-2,2-dimeth...	168	C11H17F	1000300-49-2	43





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ClientSampleId : CL-02-040219-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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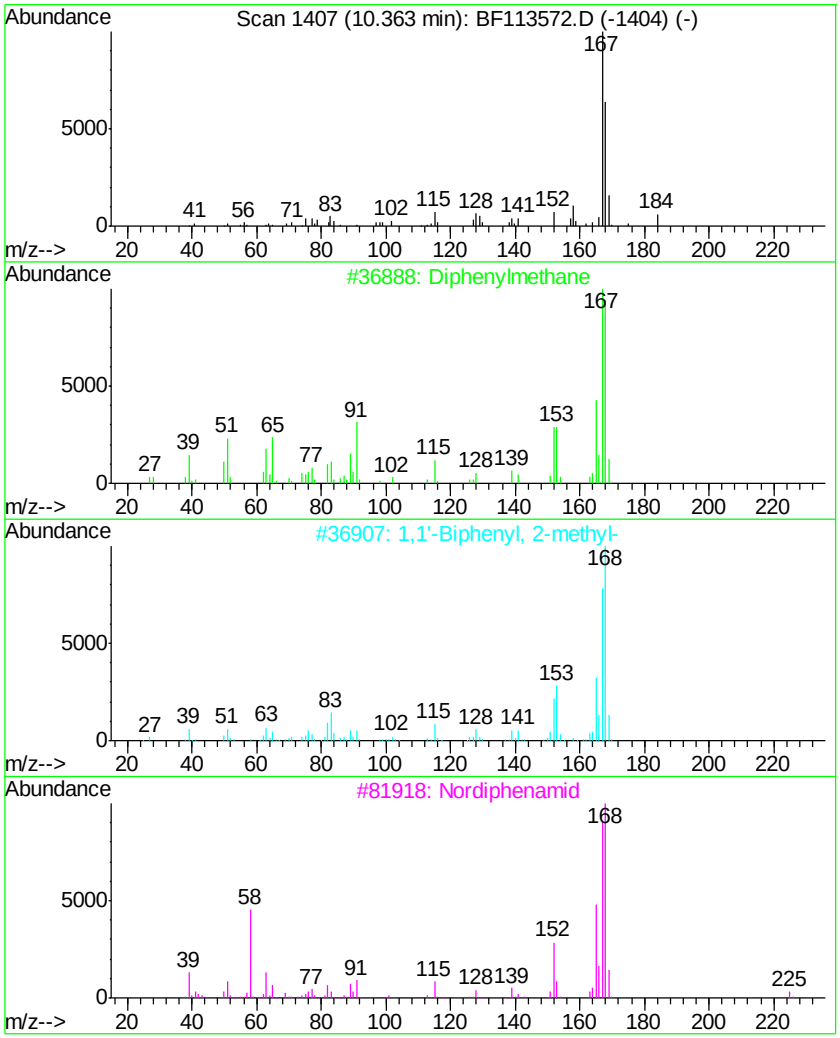
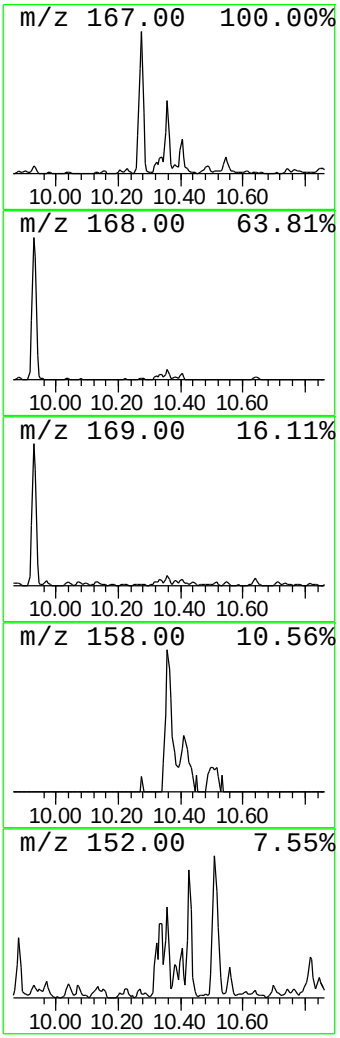
Peak Number 9 Diphenylmethane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.36	6.46 ng	283659	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	90
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	83
3	Nordiphenamid	225	C15H15NO	000954-21-2	72
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	64
5	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	59





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Misc :
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ClientSampleId : CL-02-040219-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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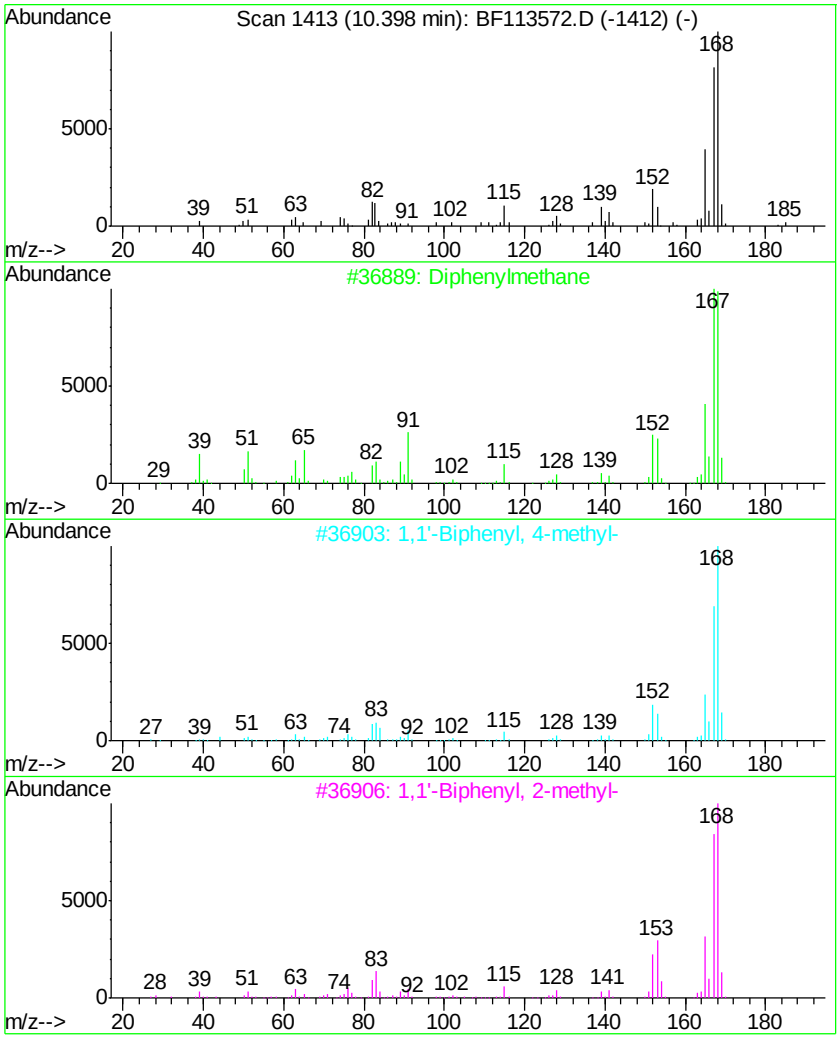
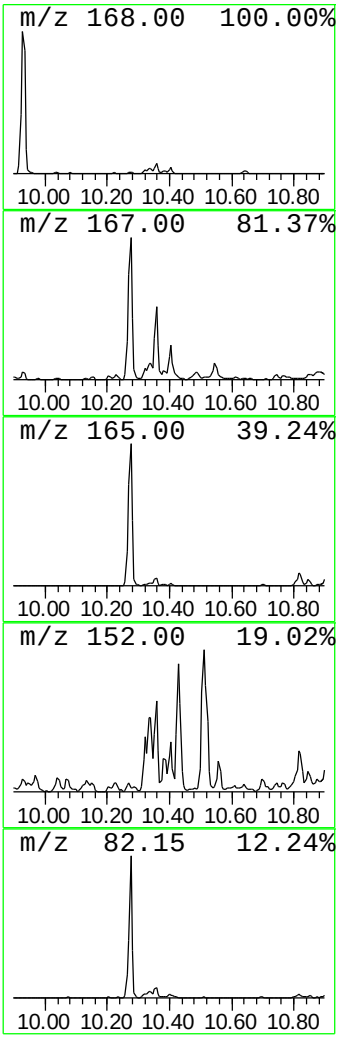
Peak Number 10 1,1'-Biphenyl, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.40	3.26 ng	143001	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	91
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	83
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	64
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	58
5	Diphenylmethoxy acetic acid	242	C15H14O3	021409-25-6	47





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

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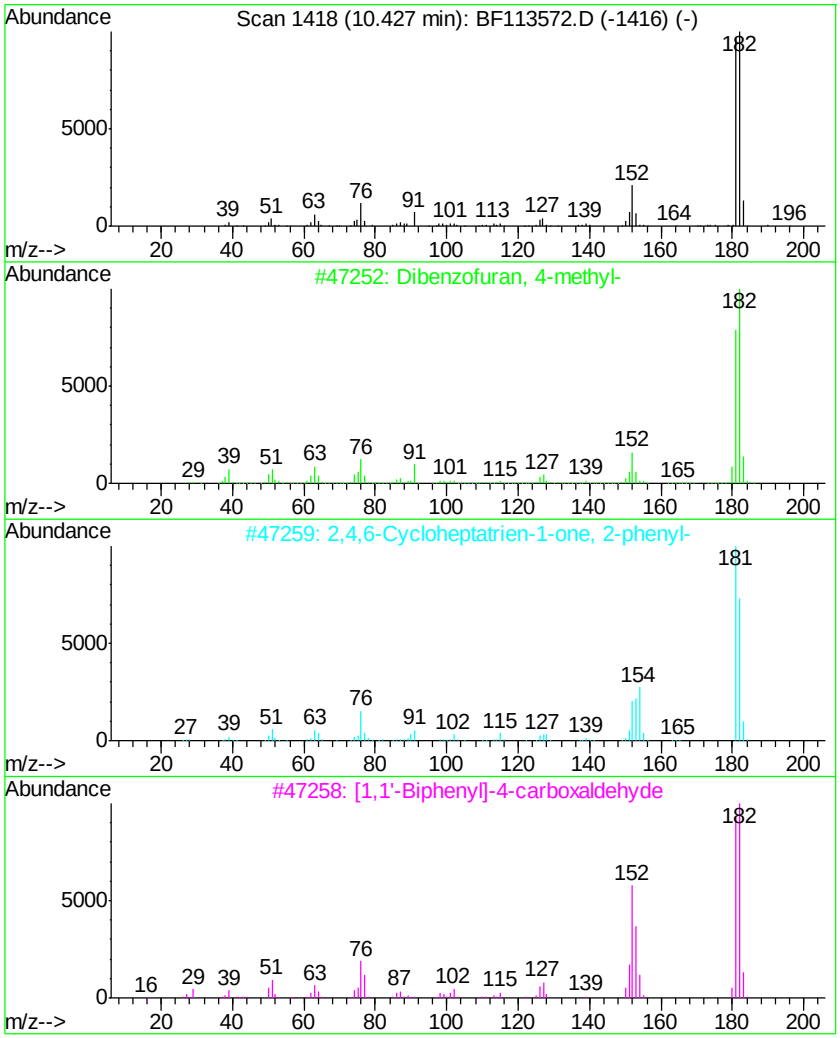
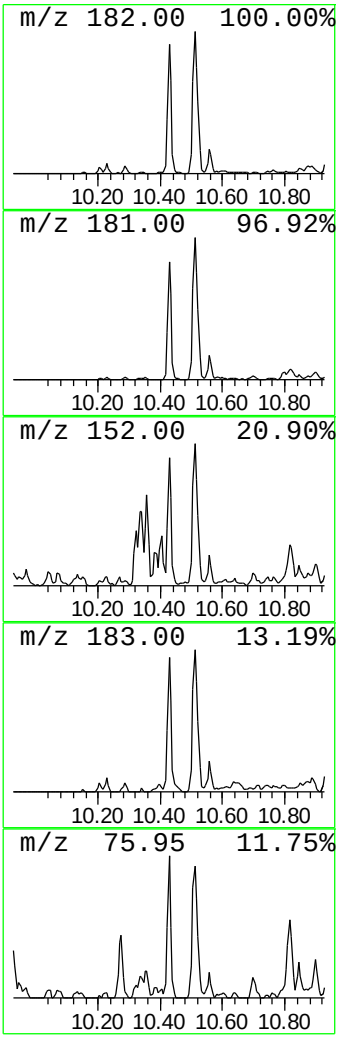
Peak Number 11 Dibenzofuran, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	8.10 ng	355810	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	72





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ClientSampleId : CL-02-040219-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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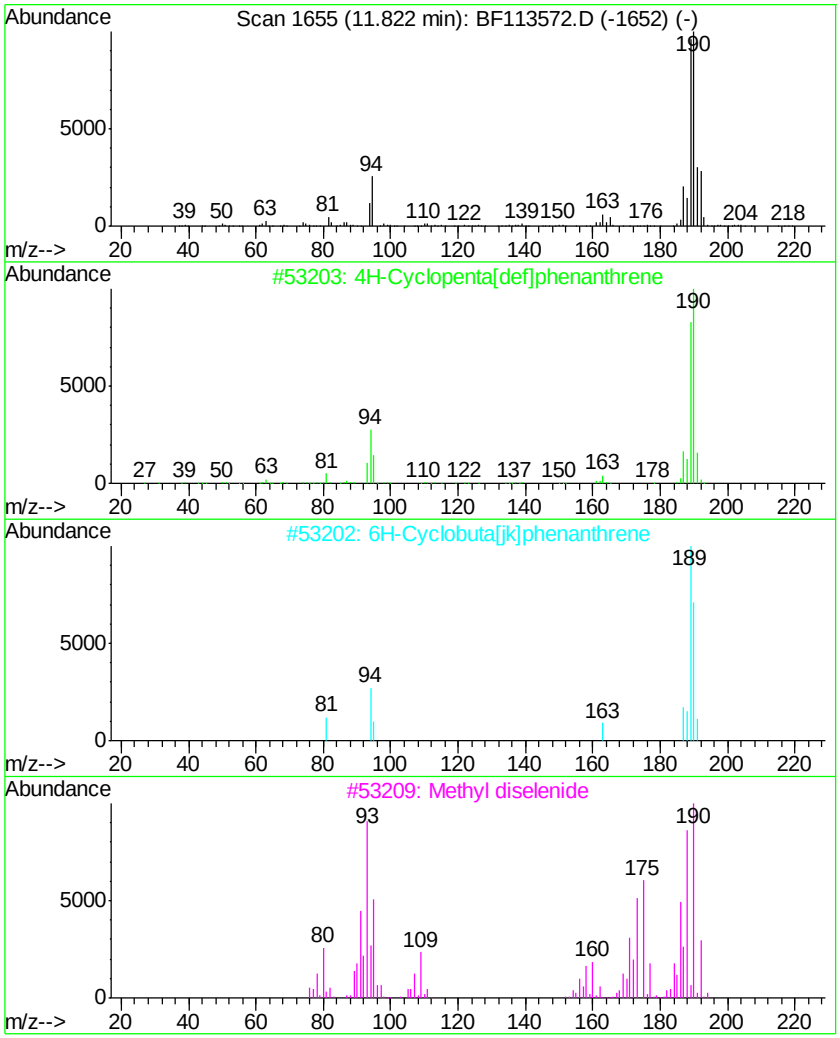
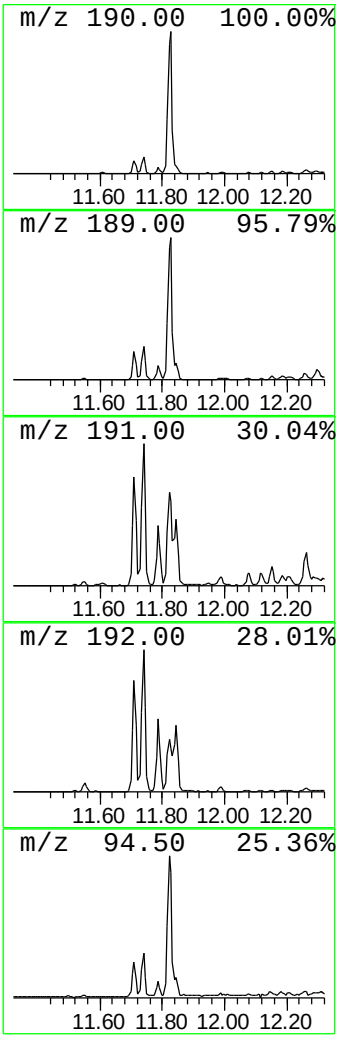
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	4.67 ng	2219790	Phenanthrene-d10	11.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-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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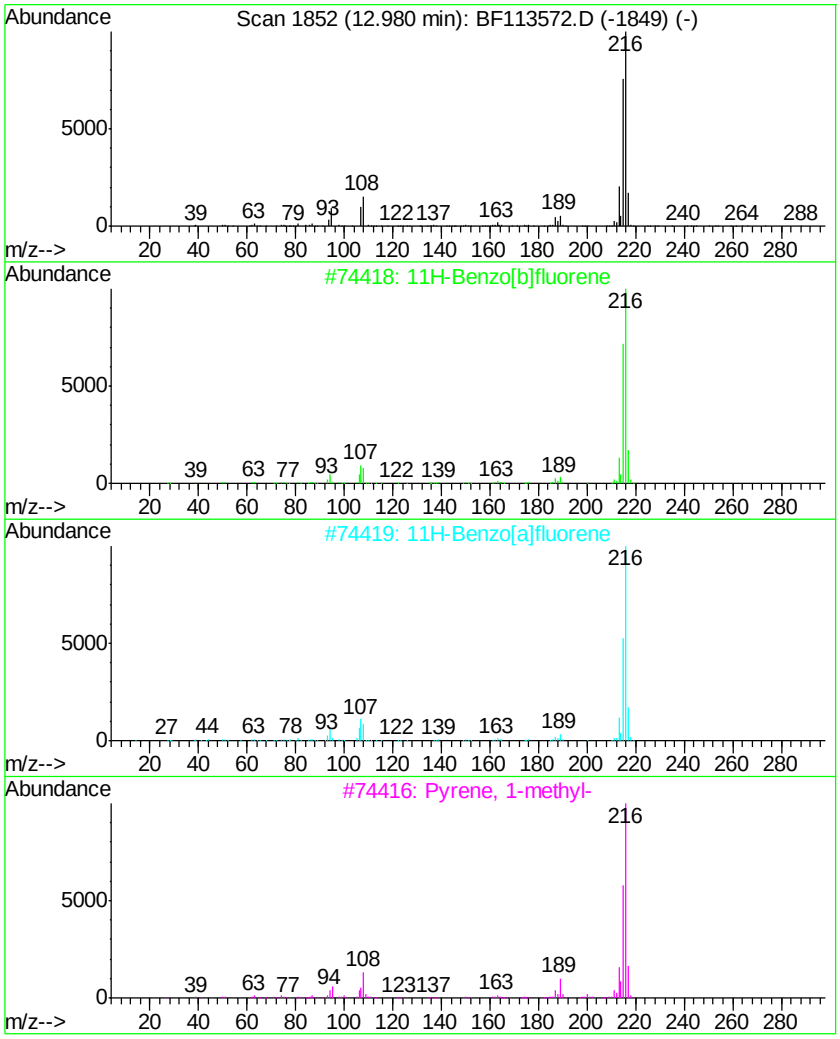
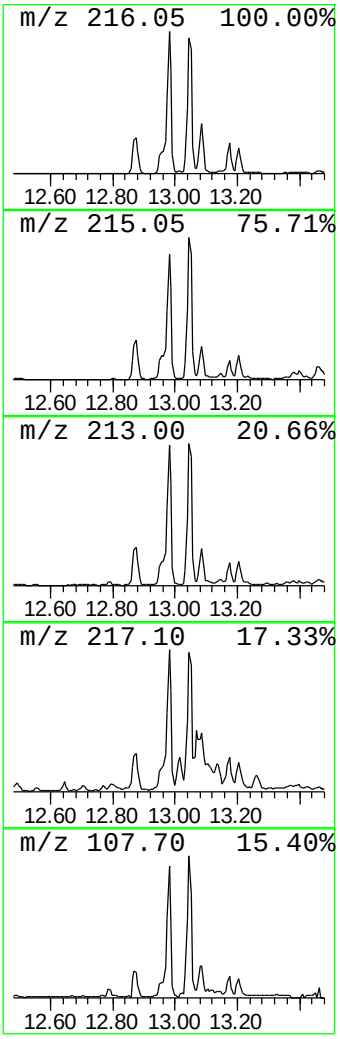
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	5.82 ng	1544460	Chrysene-d12	13.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Misc :
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Instrument : BNA_F
ClientSampleId : CL-02-040219-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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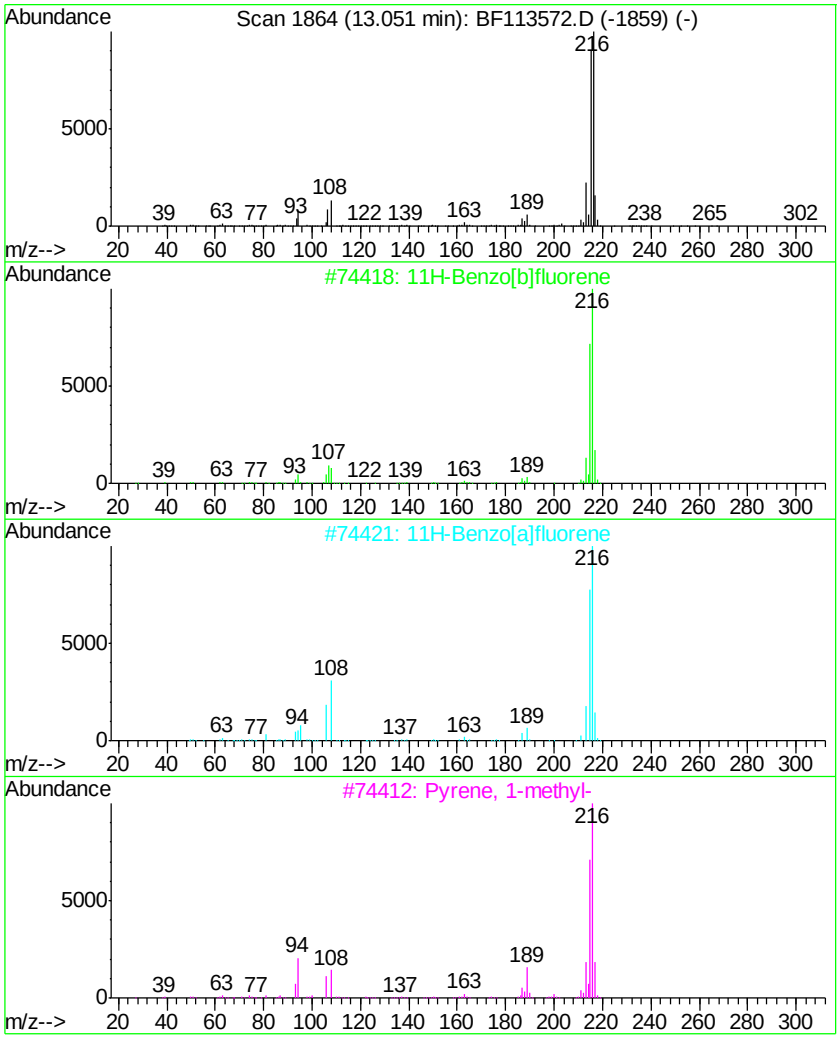
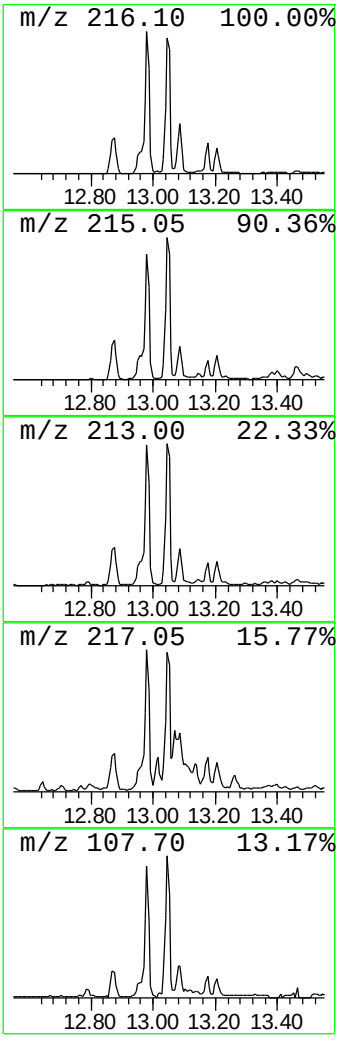
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.05	6.19 ng	1644150	Chrysene-d12	13.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	Benzoic acid, 3-(3,5-dimethyl-1-...	216	C12H12N2O2	312531-88-7	58





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ClientSampleId : CL-02-040219-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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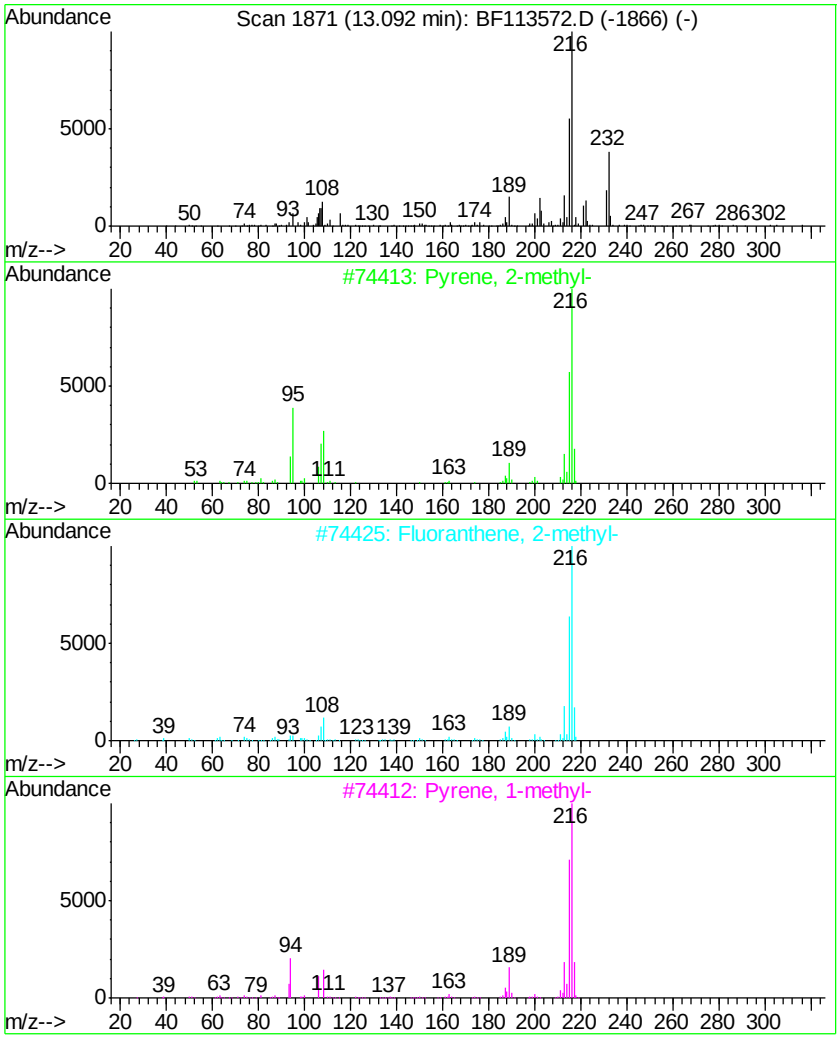
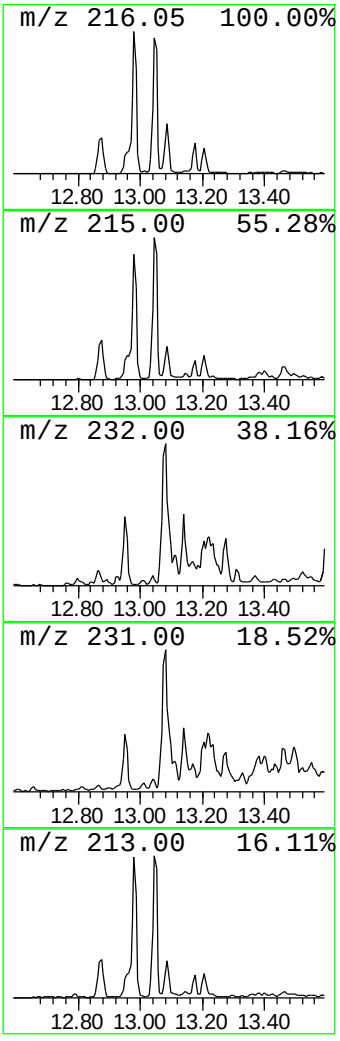
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	3.44 ng	912335	Chrysene-d12	13.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	62





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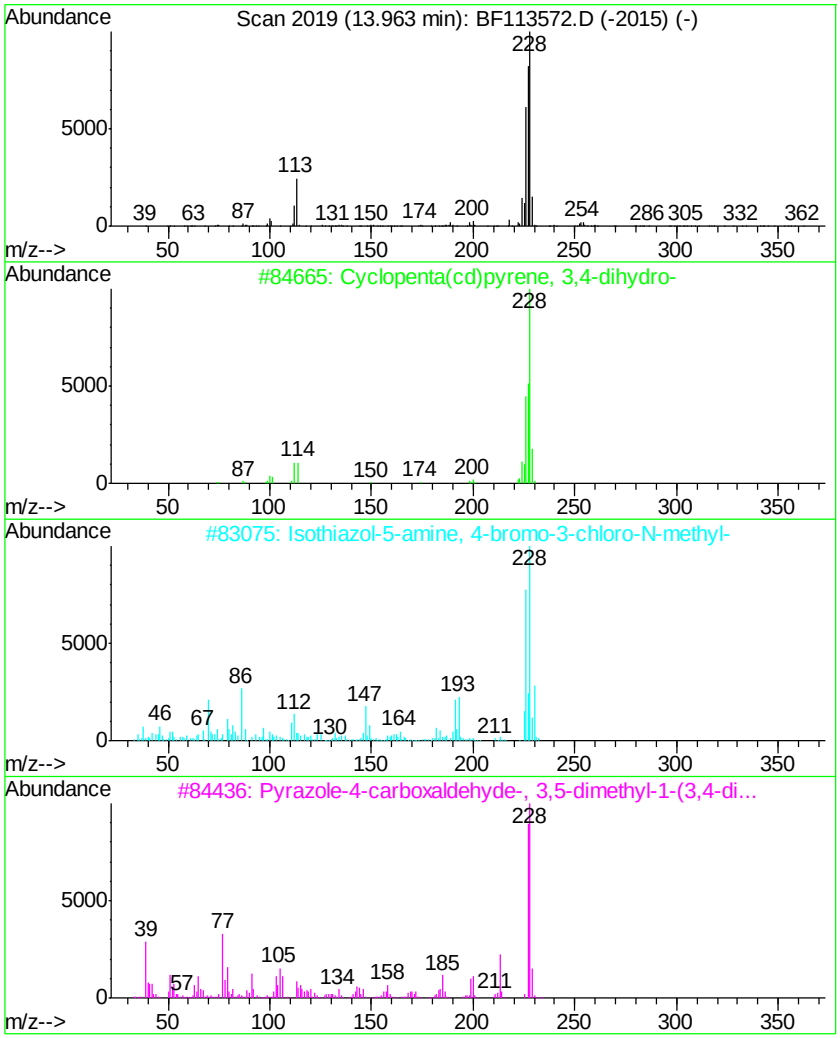
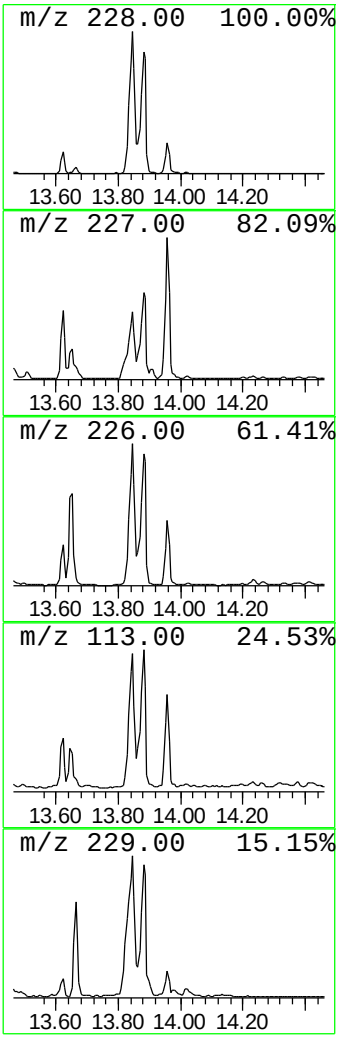
Peak Number 16 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.96	3.30 ng	876841	Chrysene-d12	13.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
2	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	50
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
4	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
5	Triphenylene	228	C18H12	000217-59-4	35





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

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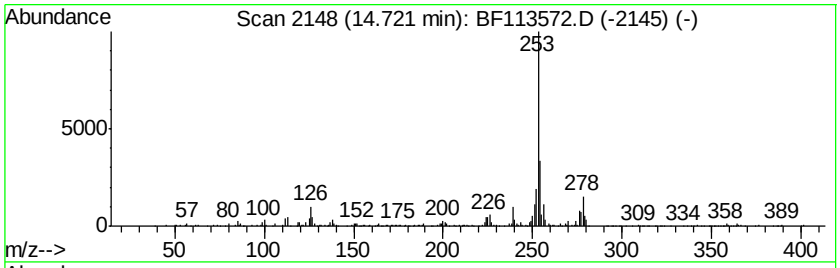
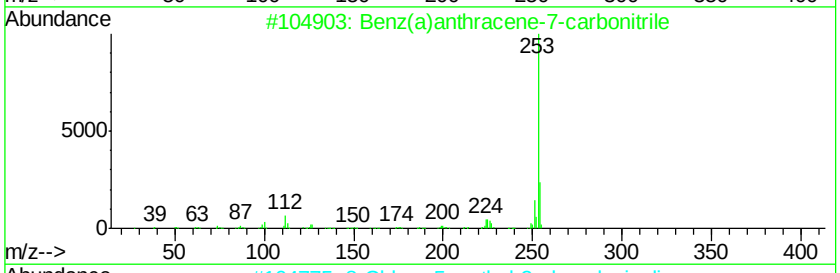
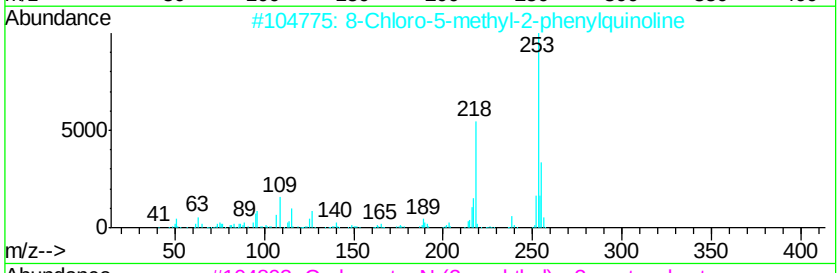
Peak Number 17 Benz(a)anthracene-7-carboni... Concentration Rank 6

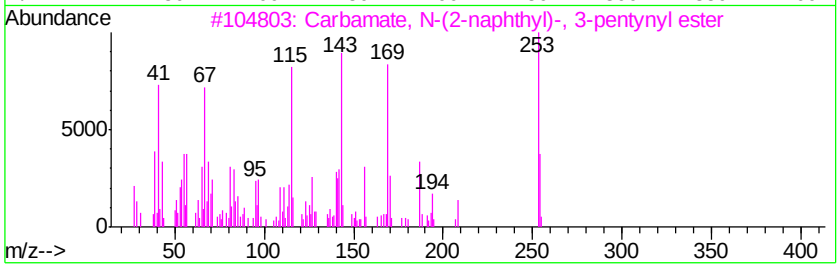
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.72	8.72 ng	269162	Perylene-d12	15.27

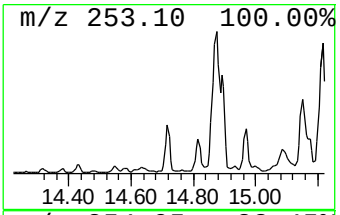
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	92
2	8-Chloro-5-methyl-2-phenylquinoline	253	C16H12ClN	025413-16-5	53
3	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	46
4	2H-1,4-Benzothiazin-2-acetic aci...	253	C11H11NO2S2	002832-88-4	38
5	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	38

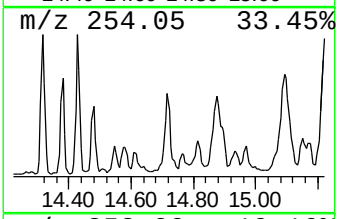


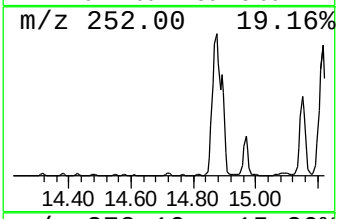


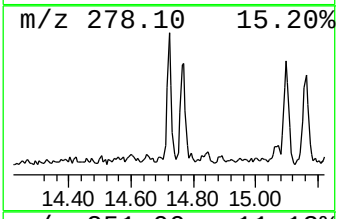


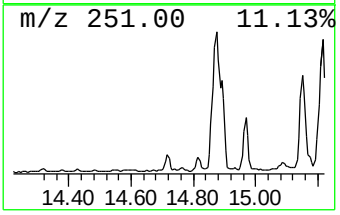












Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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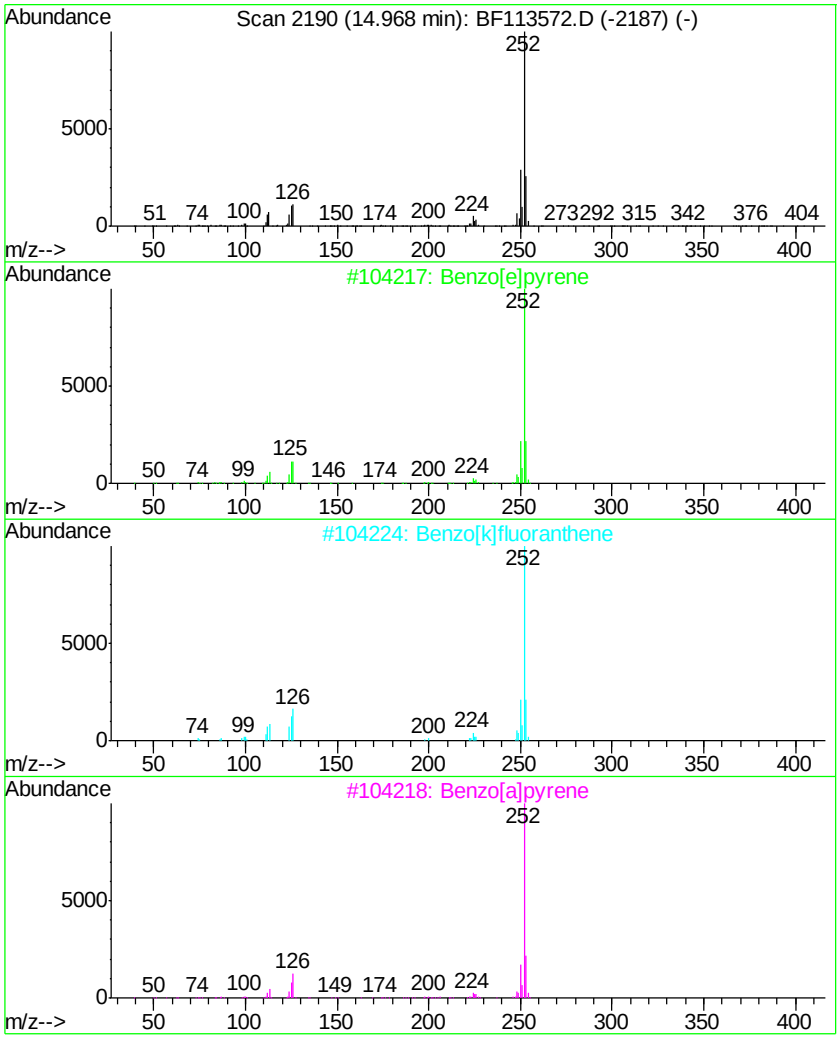
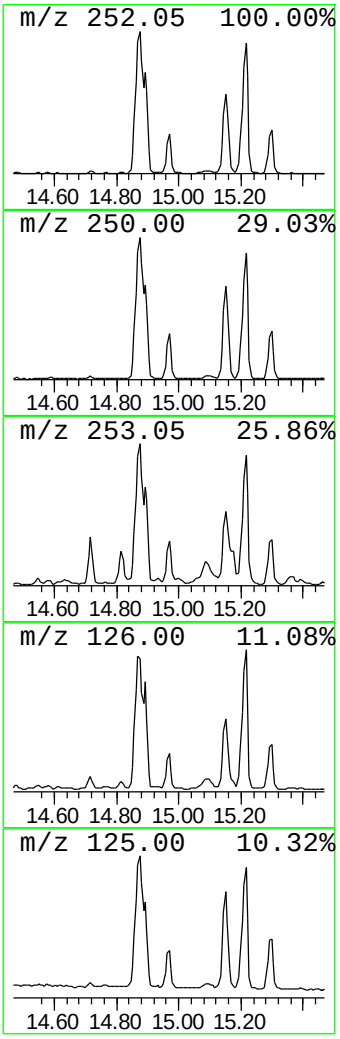
Peak Number 18 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	18.85 ng	581587	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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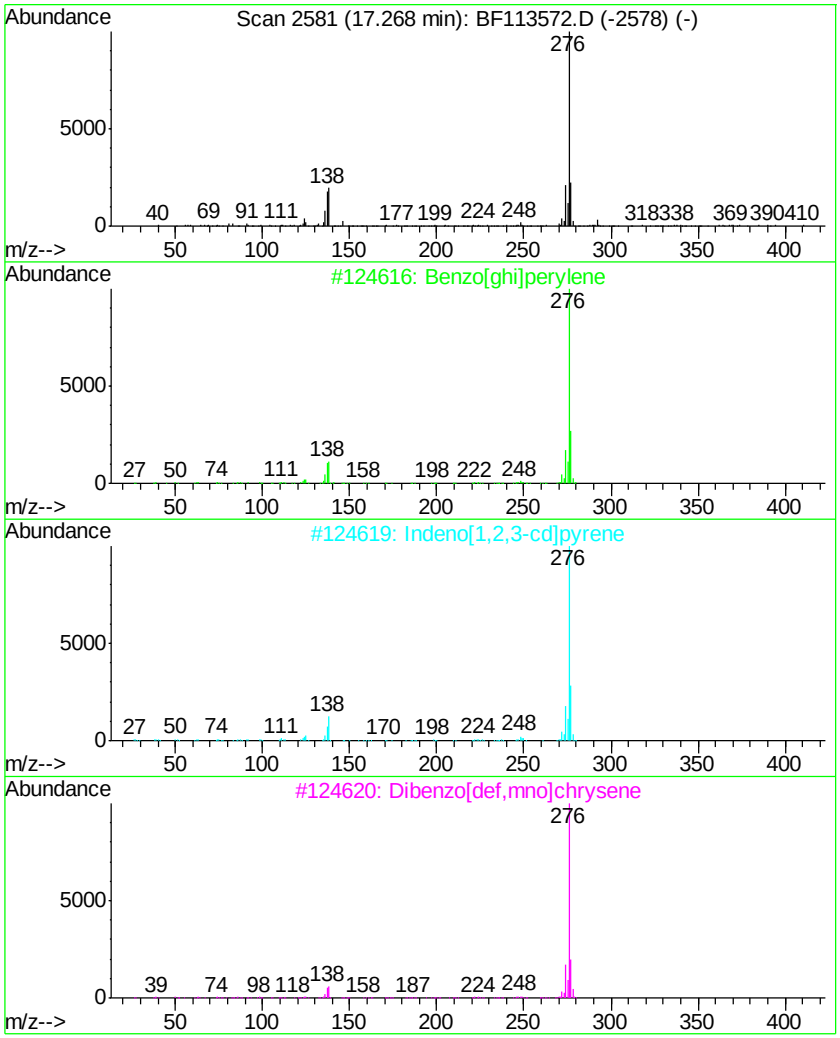
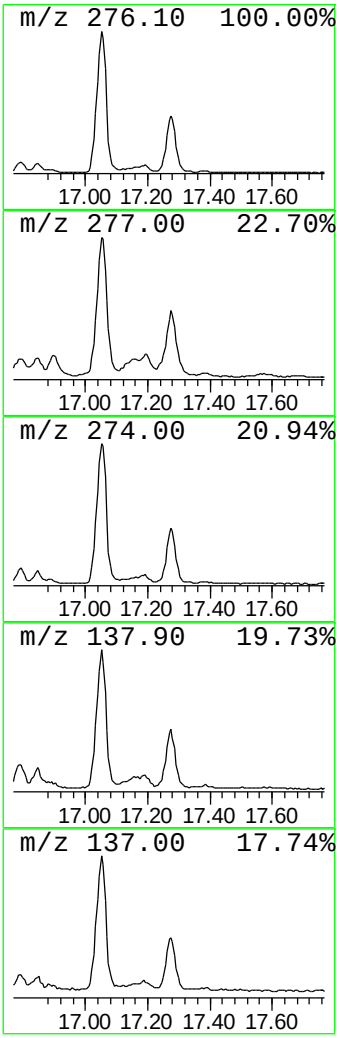
Peak Number 20 Indeno[1,2,3-cd]fluoranthene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	20.27 ng	625301	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	76
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
5	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	59





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040319\
Data File : BF113572.D
Acq On : 4 Apr 2019 5:16
Operator : JU/SJ
Sample : K2197-03 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-040219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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	16.0	ng	502709	1	6.69	628952	20.0
Naphthalene, 1-et...	9.25	3.7	ng	162452	3	9.72	878132	20.0
Naphthalene, 2,7-...	9.31	6.5	ng	286484	3	9.72	878132	20.0
Naphthalene, 2,3-...	9.39	6.7	ng	292457	3	9.72	878132	20.0
Naphthalene, 2,6-...	9.41	3.4	ng	149473	3	9.72	878132	20.0
Naphthalene, 1,5-...	9.50	3.6	ng	157727	3	9.72	878132	20.0
1-Isopropenylnaph...	10.34	3.7	ng	162254	3	9.72	878132	20.0
Diphenylmethane	10.36	6.5	ng	283659	3	9.72	878132	20.0
1,1'-Biphenyl, 4-...	10.40	3.3	ng	143001	3	9.72	878132	20.0
Dibenzofuran, 4-m...	10.43	8.1	ng	355810	3	9.72	878132	20.0
4H-Cyclopenta[def...	11.82	4.7	ng	2219790	4	11.21	9505610	20.0
11H-Benzo[b]fluorene	12.98	5.8	ng	1544460	5	13.86	5310490	20.0
11H-Benzo[a]fluorene	13.05	6.2	ng	1644150	5	13.86	5310490	20.0
Pyrene, 2-methyl-	13.09	3.4	ng	912335	5	13.86	5310490	20.0
Cyclopenta(cd)pyr...	13.96	3.3	ng	876841	5	13.86	5310490	20.0
Benz(a)anthracene...	14.72	8.7	ng	269162	6	15.27	617100	20.0
Benzo[e]pyrene	14.97	18.9	ng	581587	6	15.27	617100	20.0
Indeno[1,2,3-cd]f...	17.27	20.3	ng	625301	6	15.27	617100	20.0