LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.158	5	12	17	rBV	8716104	13080494	23.14%	2.732%
2	6.511	748	752	759	rBV2	1671659	1574519	2.79%	0.329%
3	6.569	759	762	767	rVB	1192053	1098587	1.94%	0.229%
4	6.658	774	777	781	rBV	1704655	1426672	2.52%	0.298%
5	6.893	814	817	821	rBV	2595673	1997049	3.53%	0.417%
6	7.258	876	879	883	rBV	1964146	1568555	2.77%	0.328%
7	7.446	905	911	917	rBV	1531628	1276829	2.26%	0.267%
8	7.775	963	967	970	rBV	1272039	961084	1.70%	0.201%
9	8.016	1004	1008	1012	rBV	2106012	1620521	2.87%	0.338%
10	8.181	1032	1036	1038	rBV	3057729	2879735	5.09%	0.601%
11	8.199	1038	1039	1042	rVV	2007118	1231003	2.18%	0.257%
12	8.234	1042	1045	1057	rVB2	427571	471653	0.83%	0.099%
13	8.893	1154	1157	1161	rVV	1025376	835944	1.48%	0.175%
14	8.993	1170	1174	1179	rBV	650250	512531	0.91%	0.107%
15	9.522	1261	1264	1269	rVB	304823	405183	0.72%	0.085%
16	9.599	1273	1277	1280	rVV	383219	397767	0.70%	0.083%
17	9.634	1280	1283	1285	rVV	2735640	2256843	3.99%	0.471%
18	9.657	1285	1287	1291	rVV	667282	535807	0.95%	0.112%
19	9.793	1306	1310	1318	rVV	3148334	2905353	5.14%	0.607%
20	9.946	1333	1336	1339	rVB	3132398	2756648	4.88%	0.576%
21	9.981	1339	1342	1345	rBV	6474453	5537543	9.80%	1.157%
22	10.040	1349	1352	1358	rBV2	541316	721181	1.28%	0.151%
23	10.152	1368	1371	1375	rVB	1921651	1671478	2.96%	0.349%
24	10.469	1420	1425	1428	rBV	3320026	3047175	5.39%	0.636%
25	10.499	1428	1430	1435	rVB	2341525	2095709	3.71%	0.438%
26	10.551	1435	1439	1440	rBV2	366796	411644	0.73%	0.086%
27	10.593	1444	1446	1448	rVB	480813	382315	0.68%	0.080%
28	10.663	1455	1458	1462	rVB	566846	544840	0.96%	0.114%
29	10.740	1468	1471	1476	rVB	616246	770584	1.36%	0.161%
30	10.869	1483	1493	1500	rBV	1330526	1460041	2.58%	0.305%
31	11.034	1518	1521	1524	rBV2	419130	670008	1.19%	0.140%
32	11.257	1555	1559	1564	rVB	2549339	2325276	4.11%	0.486%
33	11.316	1564	1569	1571	rBV2	1337173	1506955	2.67%	0.315%
34	11.351	1571	1575	1581	rVB	2327687	2290302	4.05%	0.478%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

35	11.457	1589	1593	1594	rBV	2327985	2259601	4.00%	0.472%
36	11.499	1594	1600	1602	rVV	16411786	24360518	43.09%	5.088%
37	11.522	1602	1604	1605	rVV	3434365	3034318	5.37%	0.634%
38	11.540	1605	1607	1610	rVV	6619300	5243635	9.28%	1.095%
39	11.569	1610	1612	1615	rVB	1142506	949176	1.68%	0.198%
40	11.693	1626	1633	1636	rBV2	5298082	5993535	10.60%	1.252%
41	11.757	1640	1644	1647	rBV4	495771	520017	0.92%	0.109%
42	11.793	1647	1650	1653	rBV	988797	857273	1.52%	0.179%
43	11.875	1661	1664	1669	rVB	759579	925363	1.64%	0.193%
44	11.969	1674	1680	1682	rVV	4420929	4210883	7.45%	0.879%
45	11.998	1682	1685	1689	rVB	6279687	6245117	11.05%	1.304%
46	12.046	1689	1693	1696	rBV	1521972	1456259	2.58%	0.304%
47	12.087	1696	1700	1702	rBV	5568469	6201871	10.97%	1.295%
48	12.104	1702	1703	1707	rVB	2644859	1938721	3.43%	0.405%
49	12.146	1707	1710	1713	rBV	473204	579435	1.02%	0.121%
50	12.175	1713	1715	1718	rVB2	679640	586539	1.04%	0.123%
51	12.210	1718	1721	1723	rBV	495518	512236	0.91%	0.107%
52	12.269	1727	1731	1733	rBV	2710080	2411272	4.27%	0.504%
53	12.304	1733	1737	1742	rVB	2538083	3042765	5.38%	0.636%
54	12.375	1746	1749	1752	rVB3	302881	352929	0.62%	0.074%
55	12.422	1752	1757	1760	rBV	1495069	1707972	3.02%	0.357%
56	12.457	1760	1763	1765	rBV	1578067	1498114	2.65%	0.313%
57	12.481	1765	1767	1771	rVB	1638481	1439240	2.55%	0.301%
58	12.534	1771	1776	1779	rBV	2187479	2801894	4.96%	0.585%
59	12.569	1779	1782	1789	rVB2	1394658	2540097	4.49%	0.531%
60	12.634	1789	1793	1799	rVB2	2391615	3405168	6.02%	0.711%
61	12.728	1799	1809	1812	rBV	16547155	38388743	67.90%	8.018%
62	12.769	1812	1816	1819	rVB2	1141008	1574652	2.79%	0.329%
63	12.851	1826	1830	1834	rBV2	2734451	3197917	5.66%	0.668%
64	12.951	1837	1847	1848	rBV3	15531455	27285346	48.26%	5.699%
65	12.987	1852	1853	1859	rVB2	2297436	2273985	4.02%	0.475%
66	13.057	1860	1865	1869	rBV	2797297	4062597	7.19%	0.849%
67	13.098	1869	1872	1877	rVB	3333577	3940961	6.97%	0.823%
68	13.163	1877	1883	1886	rBV2	3365818	6284659	11.12%	1.313%
69	13.187	1886	1887	1890	rVB	1703159	1257850	2.22%	0.263%
70	13.216	1890	1892	1894	rBV2	559633	616754	1.09%	0.129%
71	13.275	1894	1902	1906	rVB	6371707	11364790	20.10%	2.374%

LSC Area Percent Report

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Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

72	13.310	1906	1908	1910	rBV2	444370	510959	0.90%	0.107%
73	13.345	1910	1914	1916	rBV	2953148	3212879	5.68%	0.671%
74	13.387	1916	1921	1928	rBV3	6271886	10276576	18.18%	2.146%
75	13.440	1928	1930	1933	rVB	736171	606401	1.07%	0.127%
76	13.481	1933	1937	1939	rBV	3566469	4051637	7.17%	0.846%
77	13.510	1939	1942	1945	rVB	3563746	3640868	6.44%	0.760%
78	13.669	1964	1969	1970	rBV3	737649	1152107	2.04%	0.241%
79	13.710	1970	1976	1979	rVV	2417572	3741418	6.62%	0.781%
80	13.775	1984	1987	1988	rBV	673380	701524	1.24%	0.147%
81	13.810	1988	1993	1996	rVB	4474674	5911916	10.46%	1.235%
82	13.863	2000	2002	2006	rVB	1244512	1233479	2.18%	0.258%
83	13.922	2006	2012	2018	rBV4	6978576	17007397	30.08%	3.552%
84	13.975	2018	2021	2027	rVB3	3731905	6862794	12.14%	1.433%
85	14.040	2027	2032	2036	rVB	3436748	5179376	9.16%	1.082%
86	14.087	2037	2040	2045	rVB	1672585	2238457	3.96%	0.468%
87	14.192	2045	2058	2061	rBV2	12476112	37732084	66.74%	7.881%
88	14.298	2070	2076	2080	rVB2	2409163	3542112	6.27%	0.740%
89	14.351	2081	2085	2088	rBV3	1681216	2771919	4.90%	0.579%
90	14.392	2089	2092	2093	rBV2	805479	973332	1.72%	0.203%
91	14.510	2109	2112	2115	rBV2	879344	1091666	1.93%	0.228%
92	14.545	2115	2118	2120	rBV2	1015647	1340059	2.37%	0.280%
93	14.592	2120	2126	2129	rBV	5986713	11454104	20.26%	2.392%
94	14.728	2145	2149	2156	rVB6	2588519	4912377	8.69%	1.026%
95	14.957	2181	2188	2192	rBV4	2480140	6029597	10.67%	1.259%
96	15.004	2193	2196	2199	rVV	952261	1235667	2.19%	0.258%
97	15.139	2212	2219	2233	rVB6	2481068	10099720	17.86%	2.109%
98	15.381	2238	2260	2267	rBV2	9555248	56534358	100.00%	11.808%
99	15.522	2279	2284	2290	rBV4	1018994	3040621	5.38%	0.635%
100	15.681	2299	2311	2316	rBV3	5845471	23148720	40.95%	4.835%

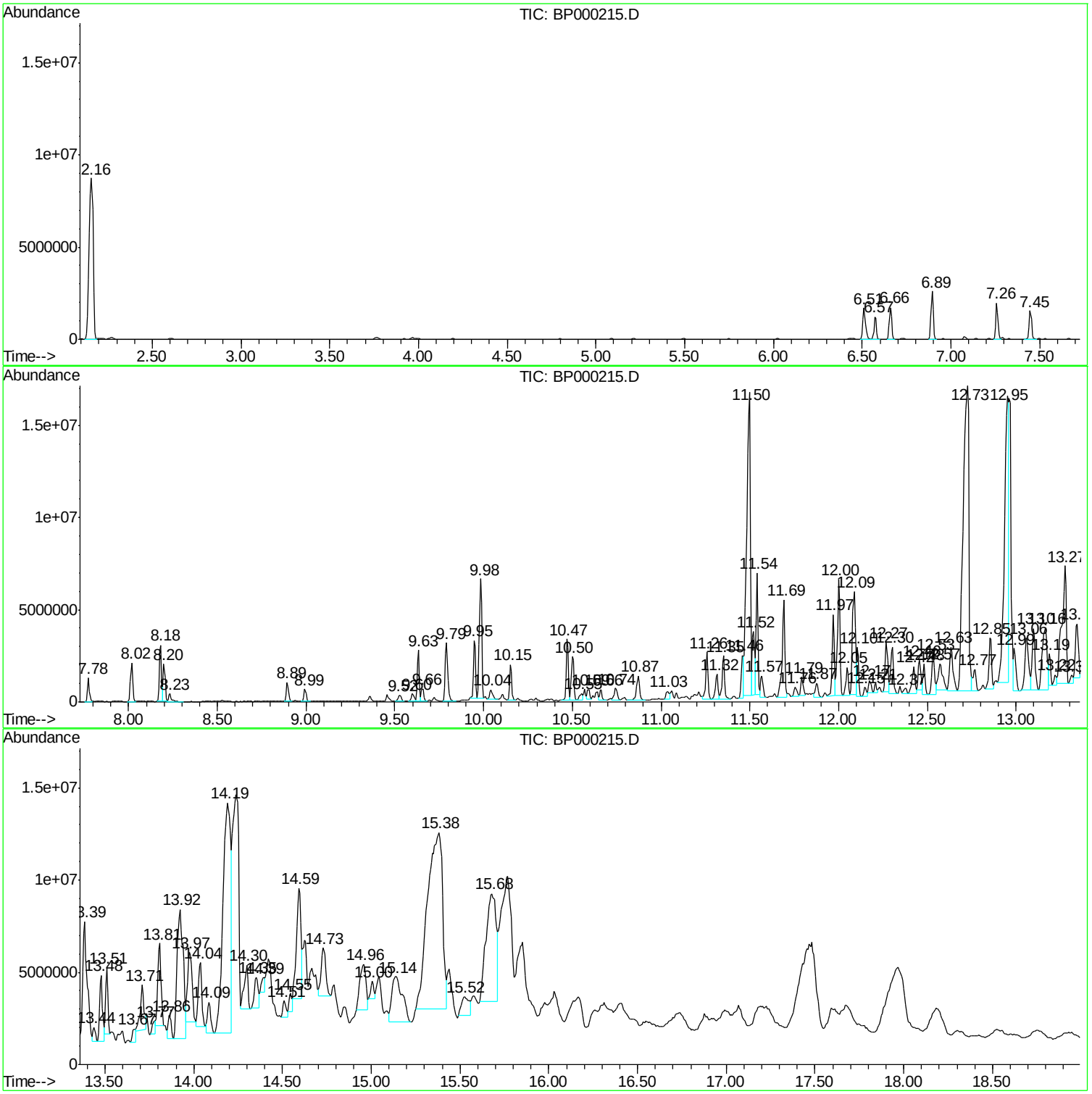
Sum of corrected areas: 478784154

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

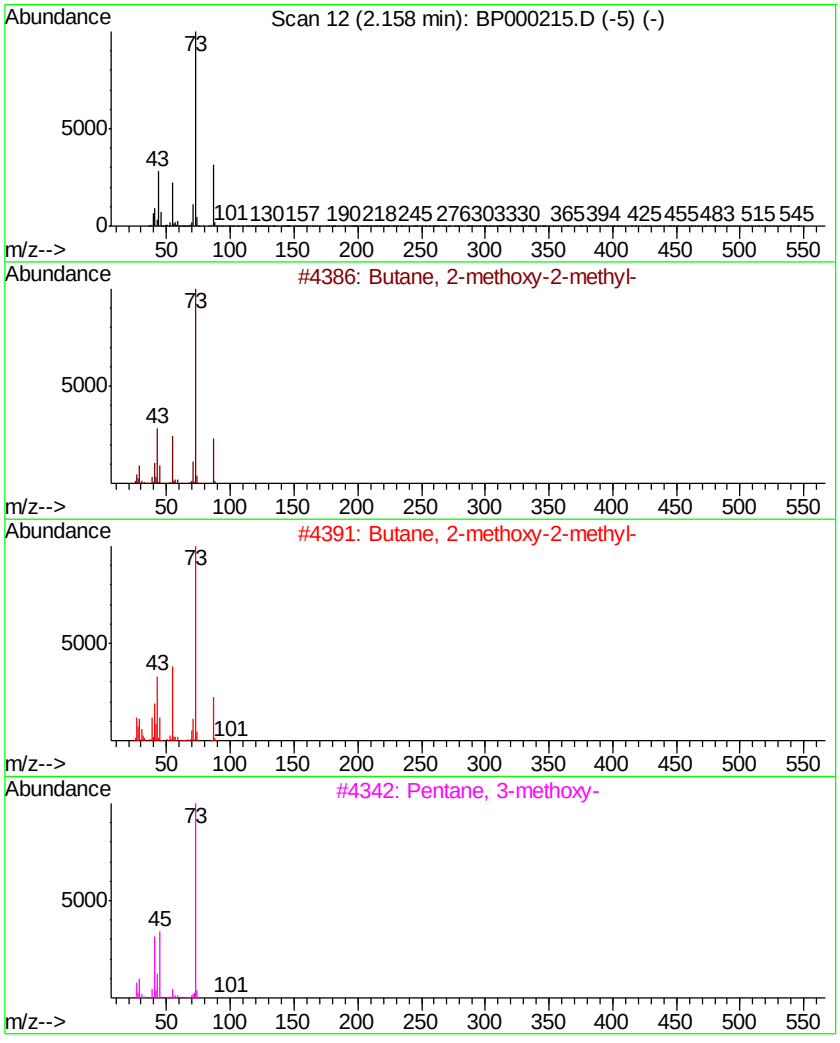
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

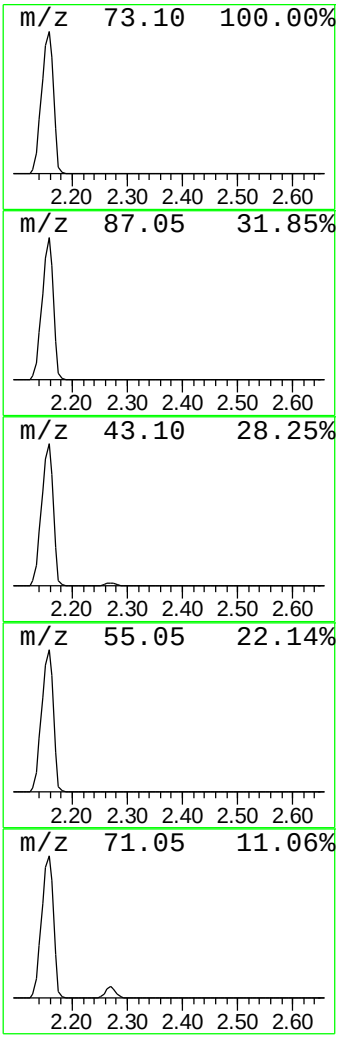
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.16	131.00 ng/ul	13080500	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	7





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

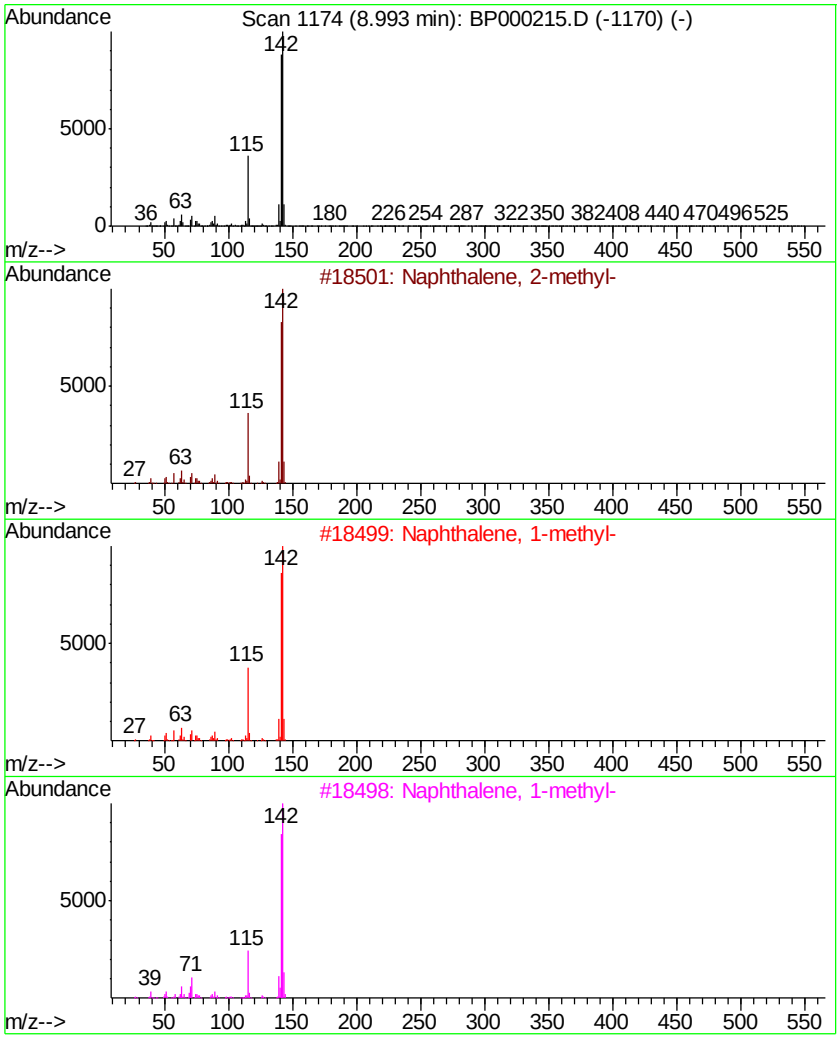
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

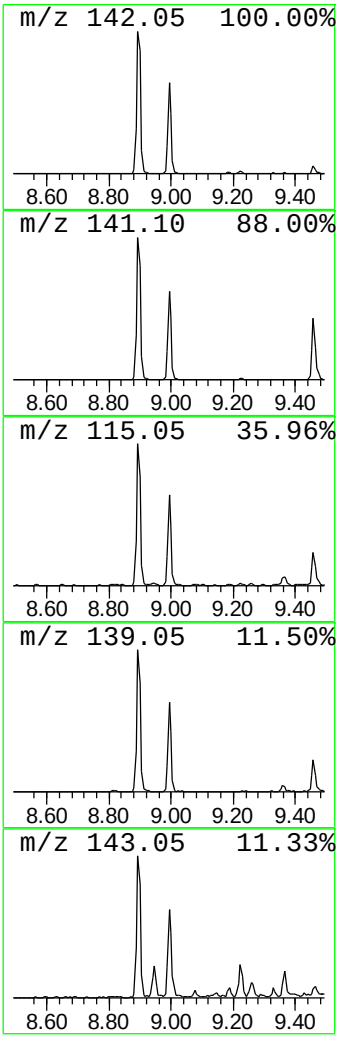
****

Peak Number 2 Naphthalene, 1-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.99	3.56 ng/ul	512531	Naphthalene-d8	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

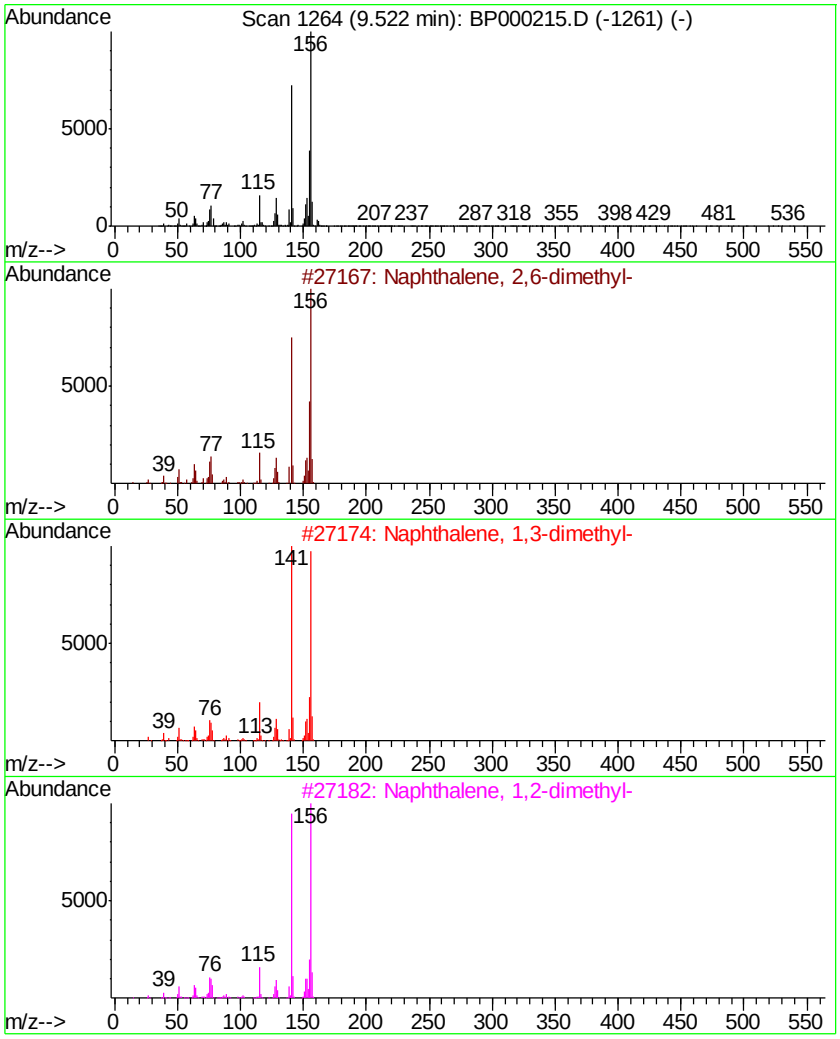
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

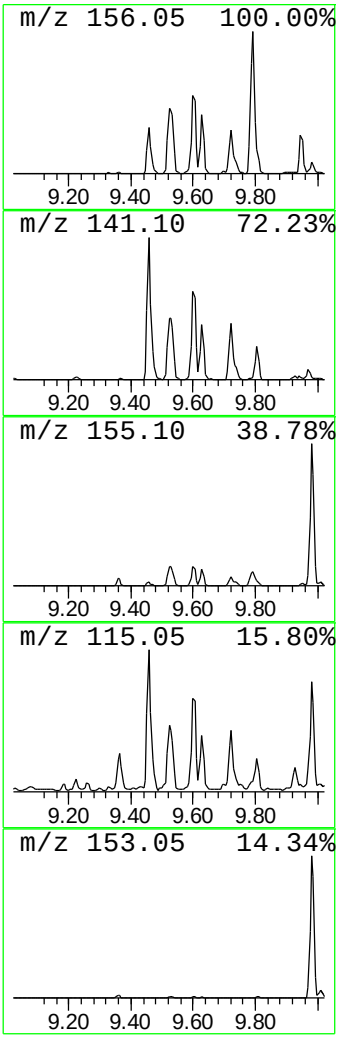
****

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	2.94 ng/ul	405183	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

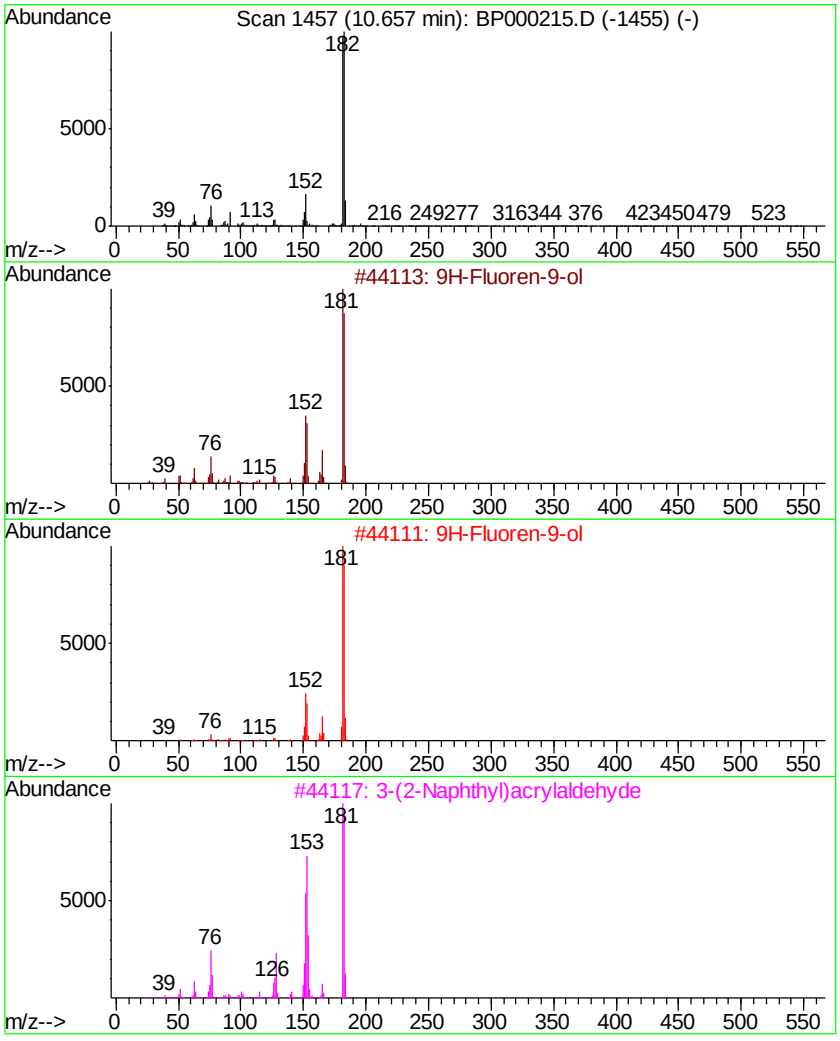
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

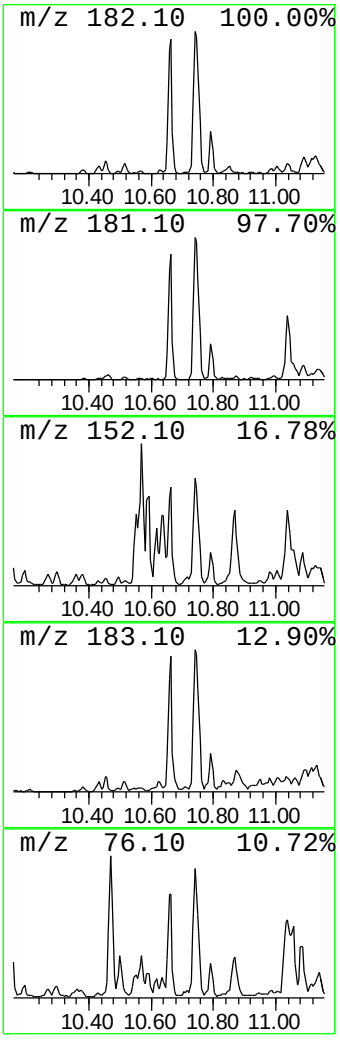
****

Peak Number 4 9H-Fluoren-9-ol Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	3.95 ng/ul	544840	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	64
3	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	64
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	62
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	59





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

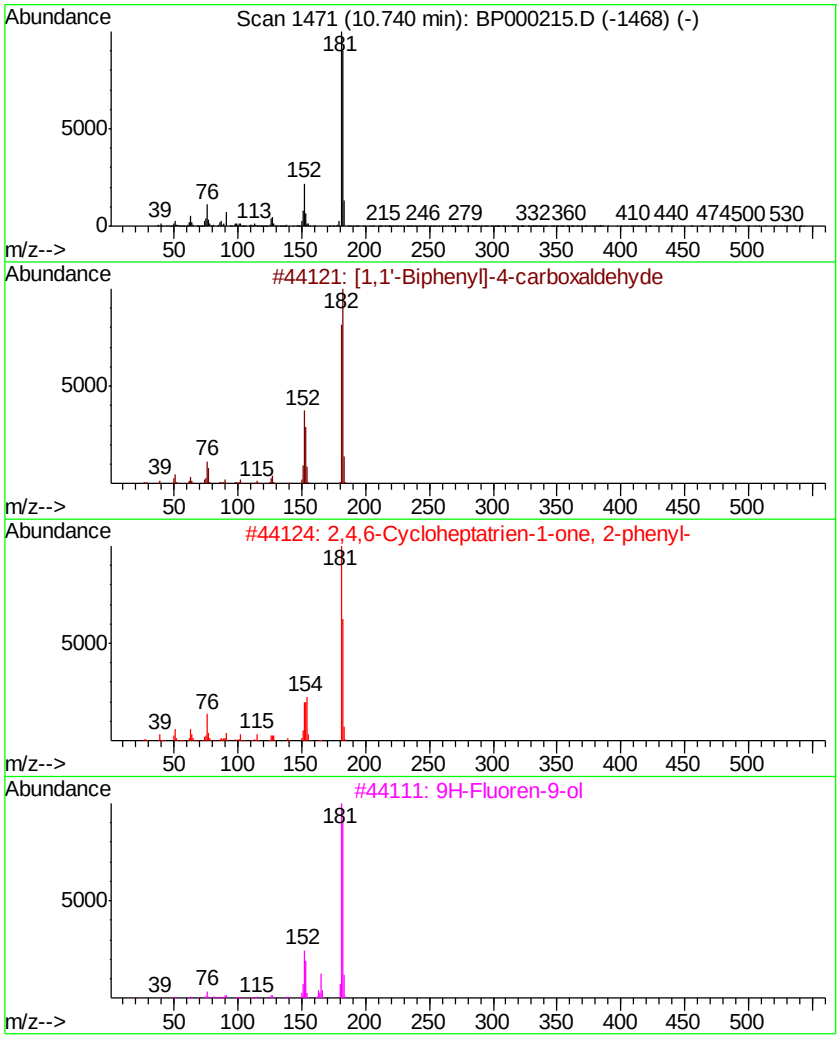
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

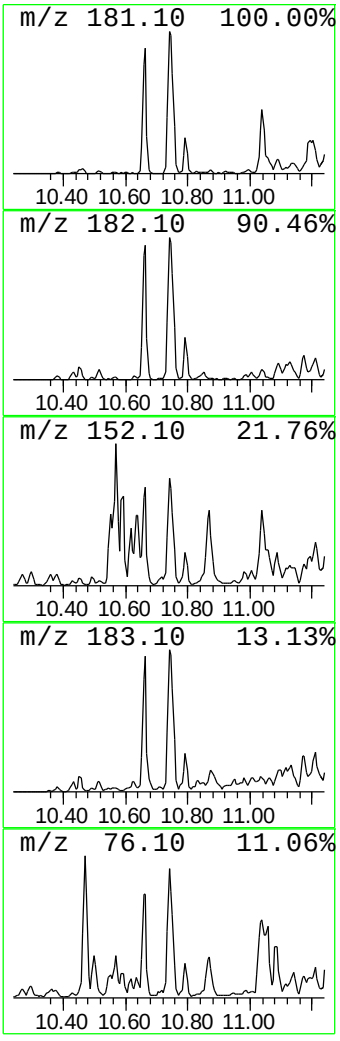
****

Peak Number 5 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.74	6.82 ng/ul	770584	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76





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Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
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Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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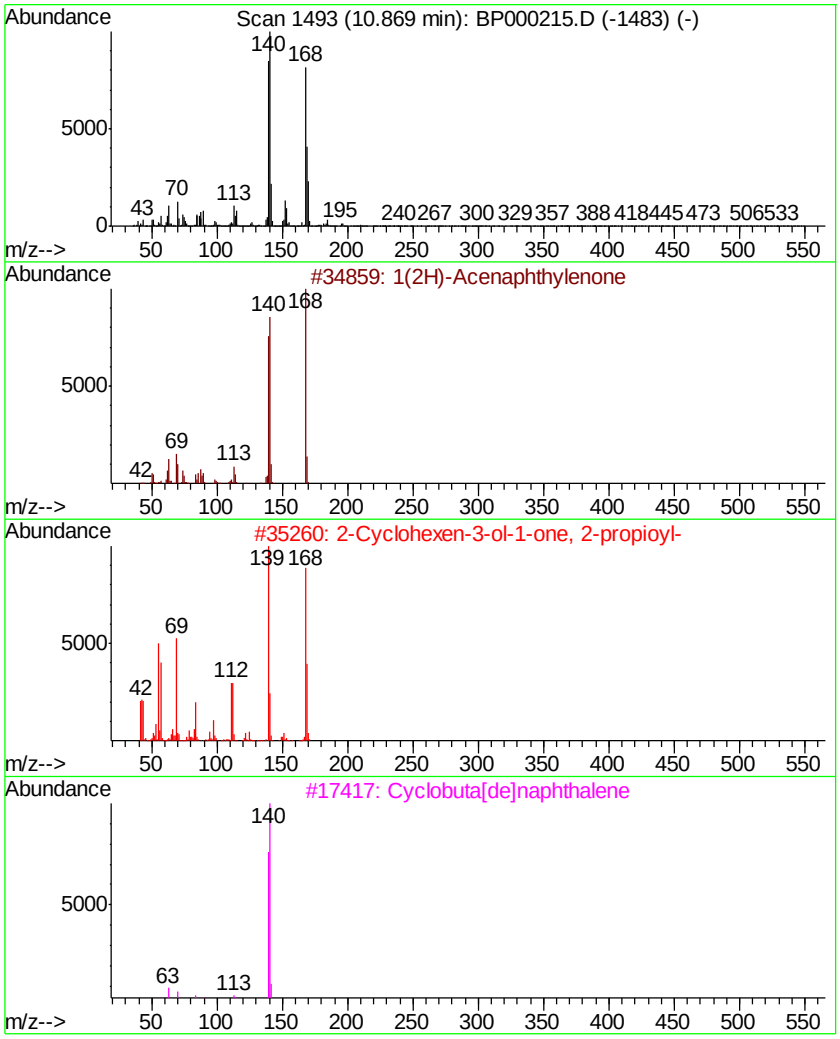
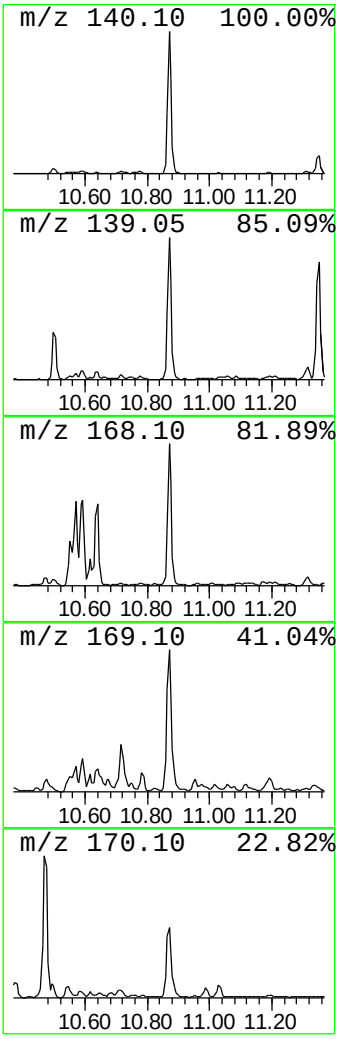
Peak Number 6 1(2H)-Acenaphthylenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	12.92 ng/ul	1460040	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	94
2	2-Cyclohexen-3-ol-1-one, 2-propi...	168	C9H12O3	062847-90-9	50
3	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	45
4	Dibenzofuran	168	C12H8O	000132-64-9	38
5	Dibenzofuran	168	C12H8O	000132-64-9	38





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ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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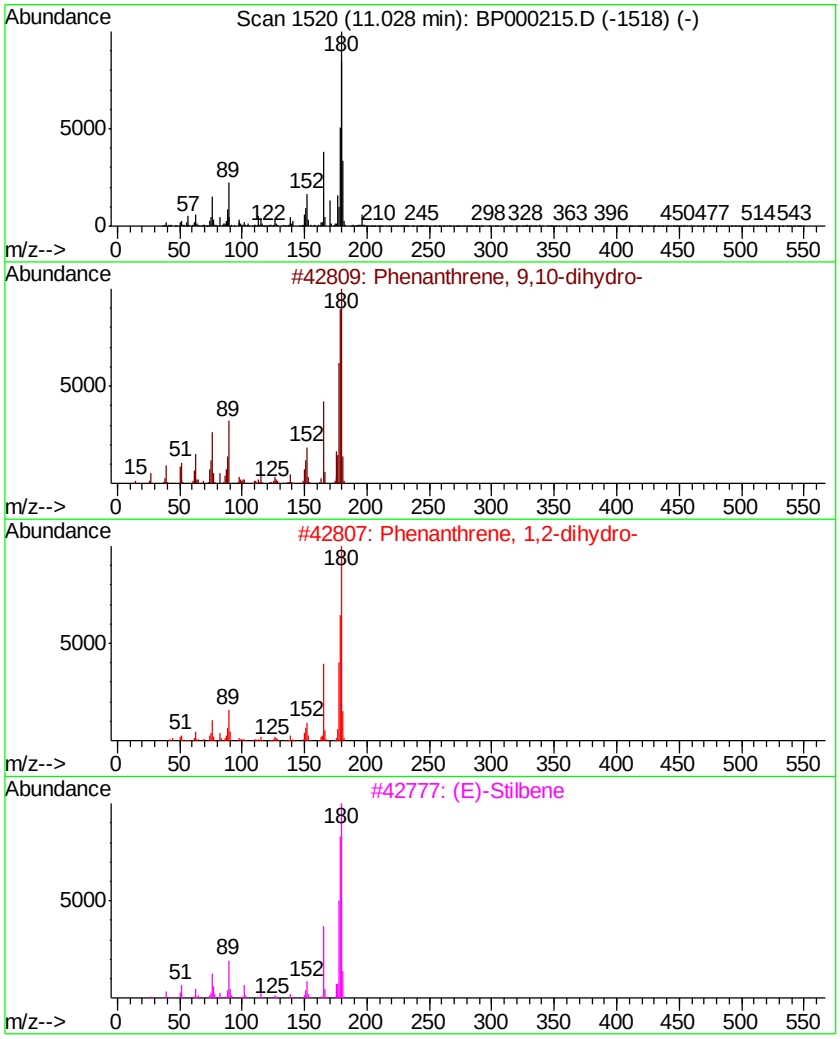
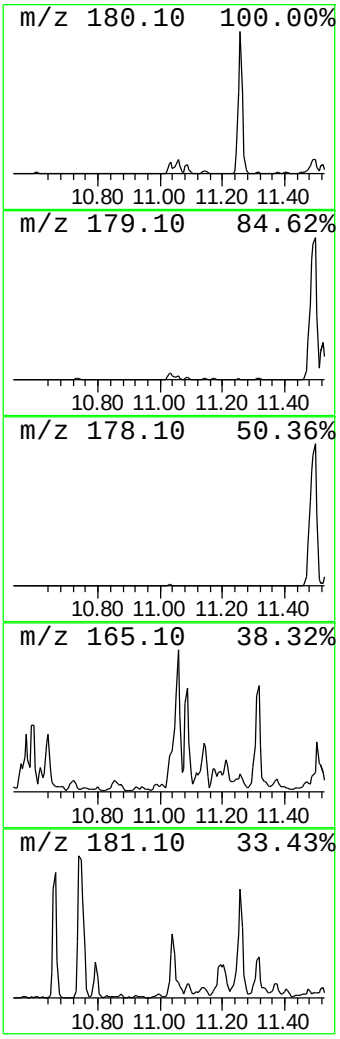
Peak Number 7 Phenanthrene, 9,10-dihydro- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.03	5.93 ng/ul	670008	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	78
2	Phenanthrene, 1,2-dihydro-	180	C14H12	056179-83-0	60
3	(E)-Stilbene	180	C14H12	000103-30-0	60
4	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	55
5	cis-Stilbene	180	C14H12	000645-49-8	55





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ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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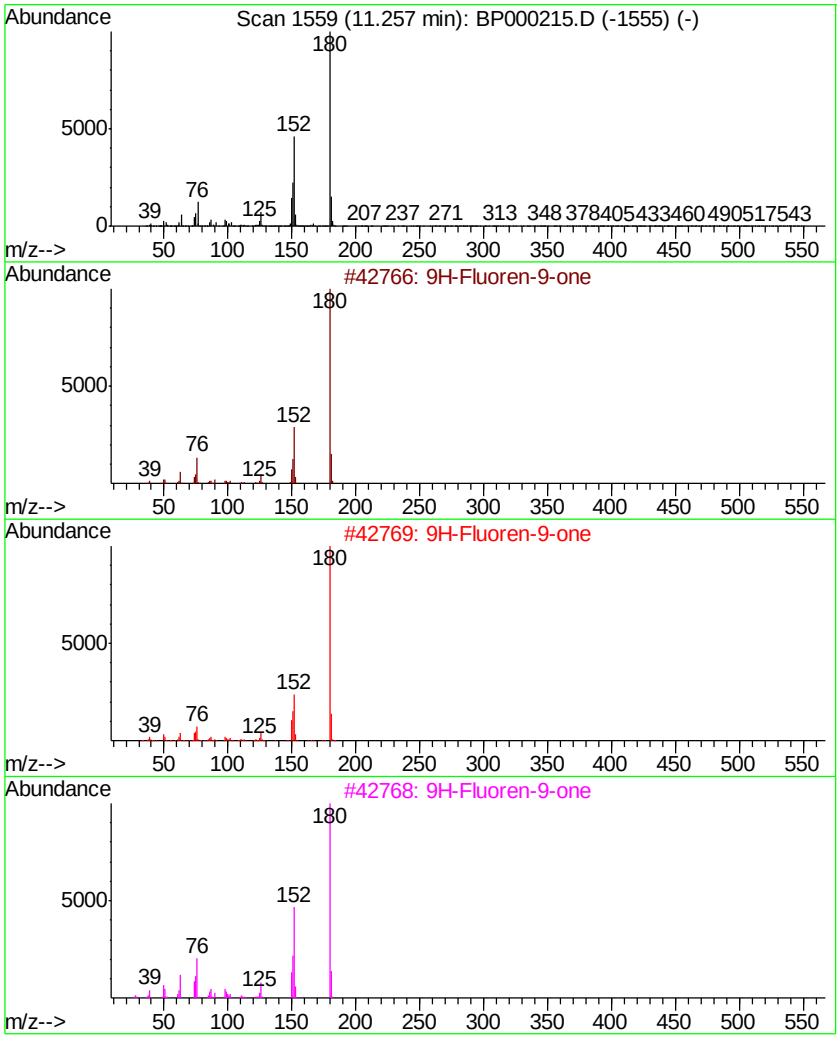
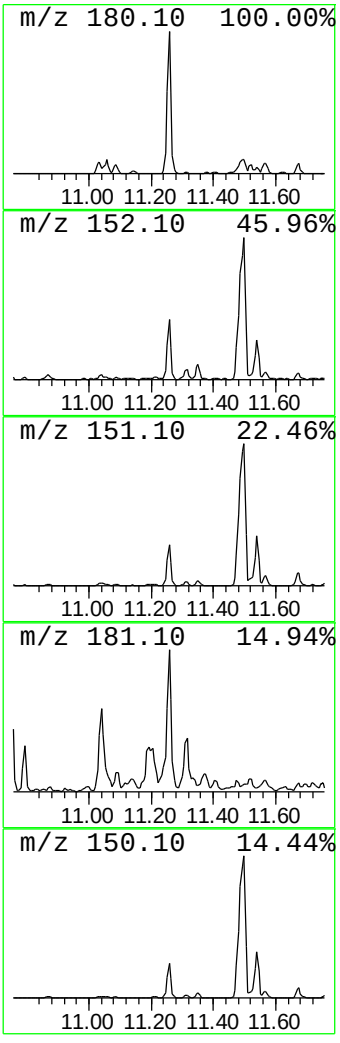
Peak Number 8 9H-Fluoren-9-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	20.58 ng/ul	2325280	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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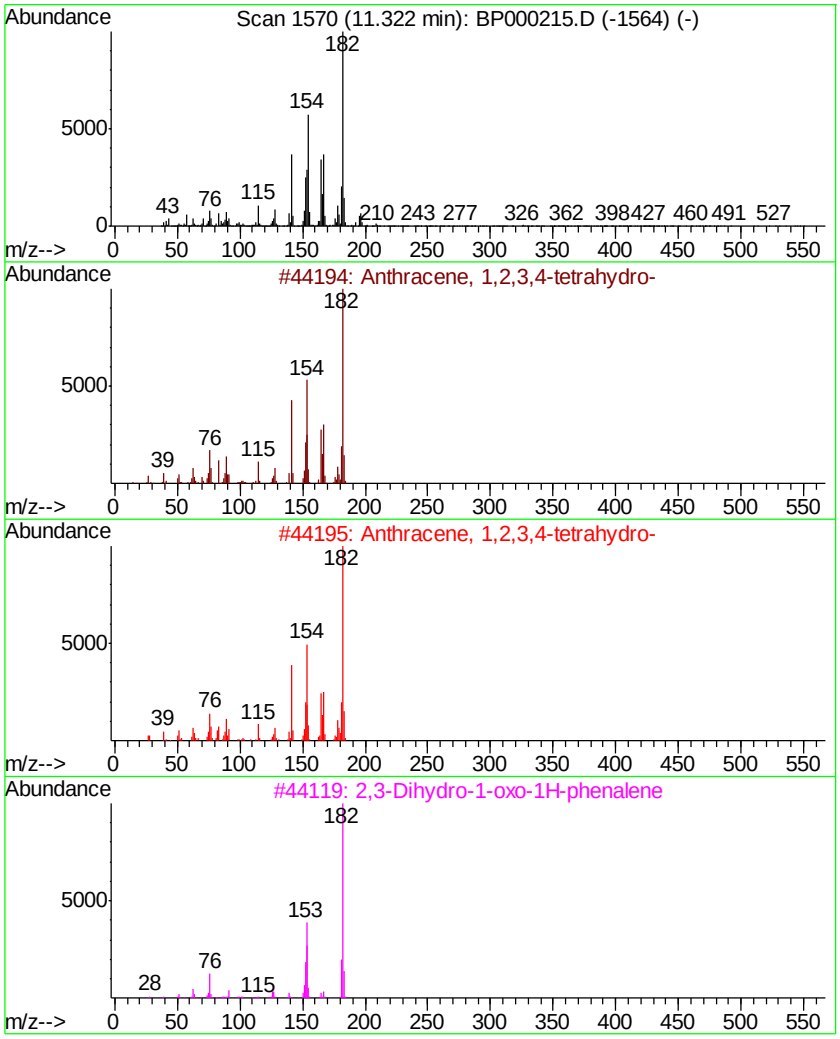
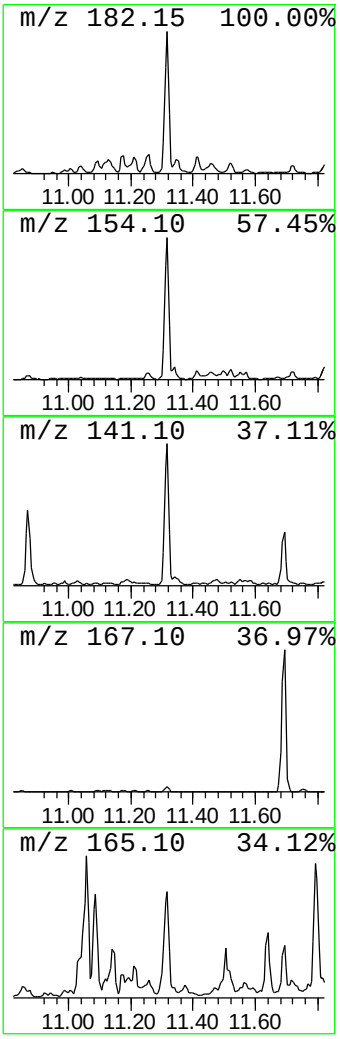
Peak Number 9 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	13.34 ng/ul	1506960	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	98
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	93
3	2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	87
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	70
5	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	64





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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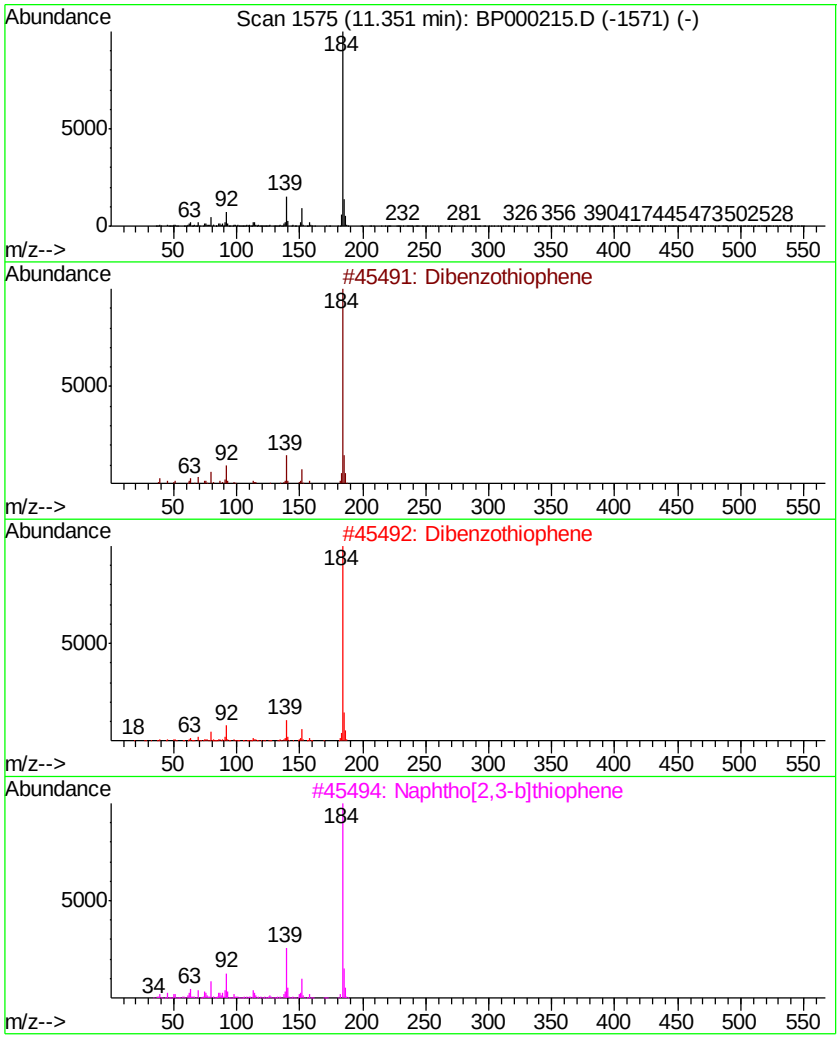
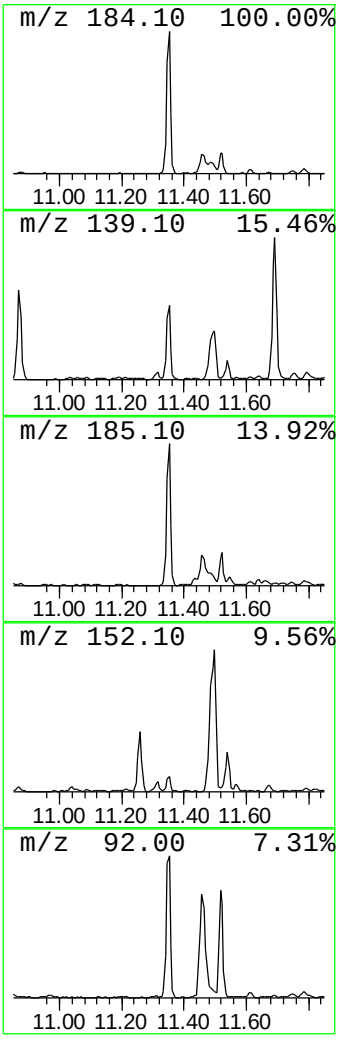
Peak Number 10 Dibenzothiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	20.27 ng/ul	2290300	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Sample : K4634-12
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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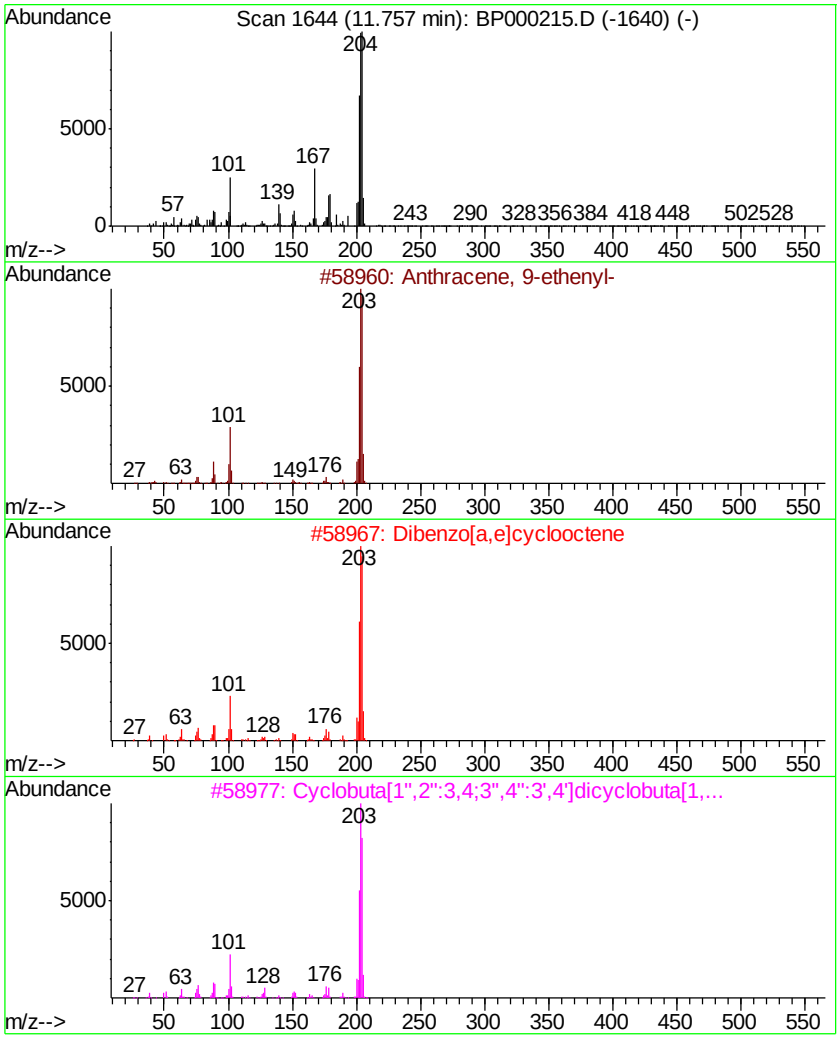
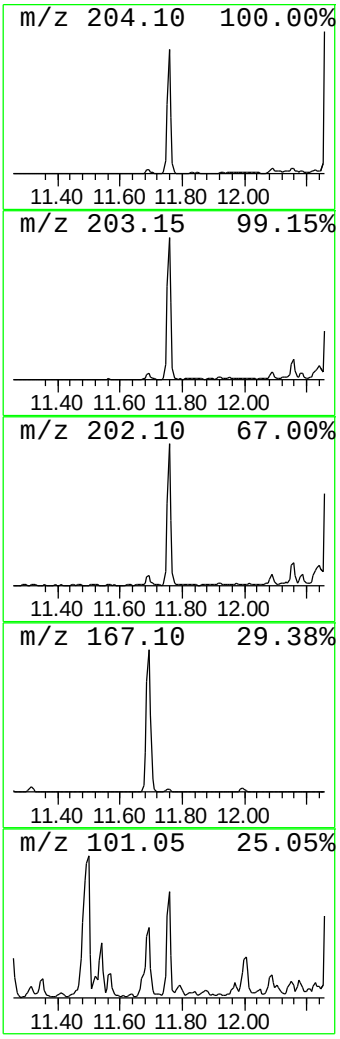
Peak Number 11 Anthracene, 9-ethenyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	4.60 ng/ul	520017	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	95
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	92
3	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	86
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
5	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	70





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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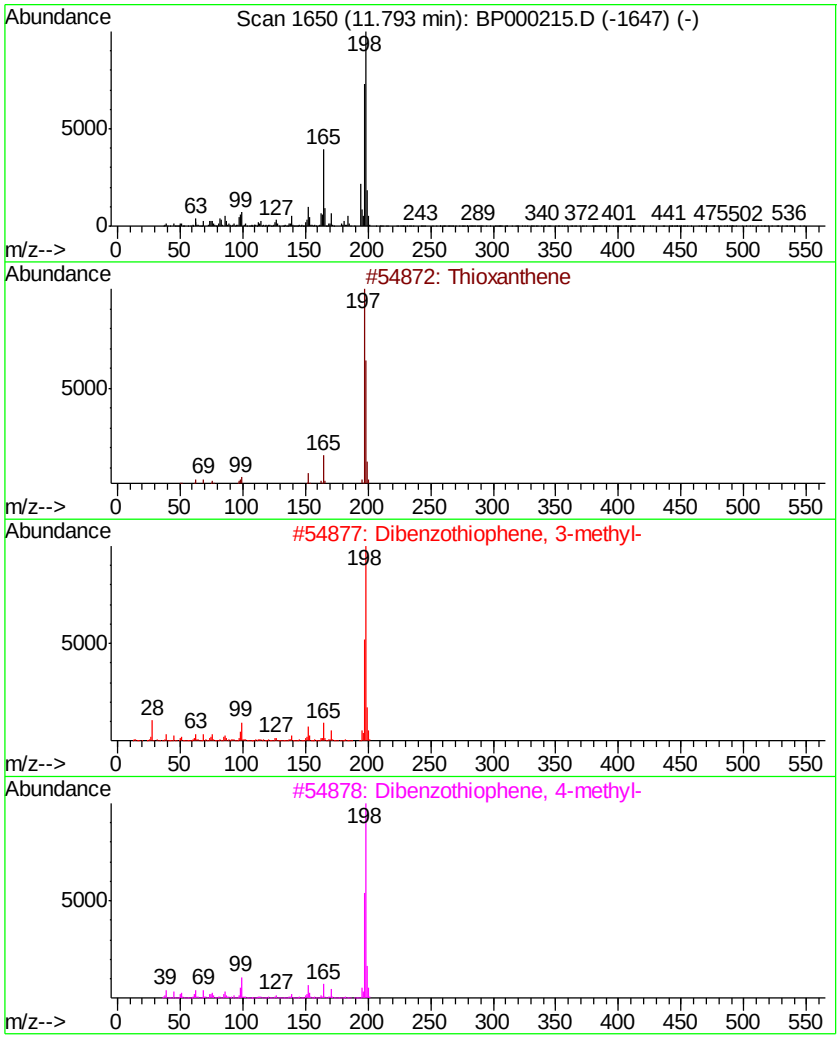
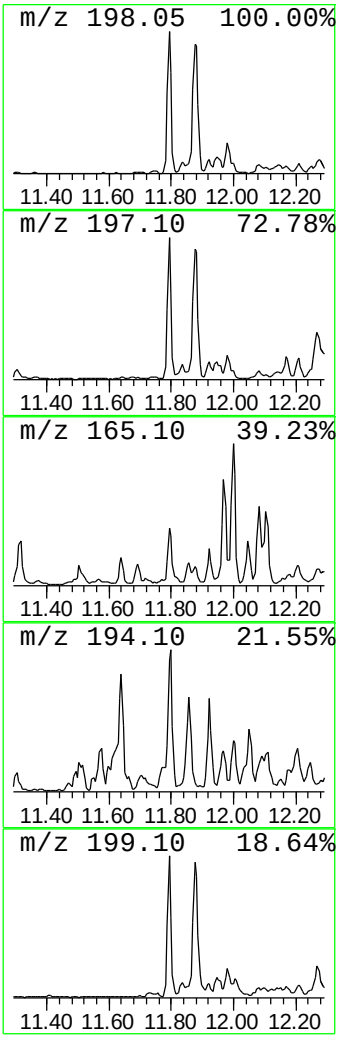
Peak Number 12 Thioxanthene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	7.59 ng/ul	857273	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thioxanthene	198	C13H10S	000261-31-4	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	86
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	86
4	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	50
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	49





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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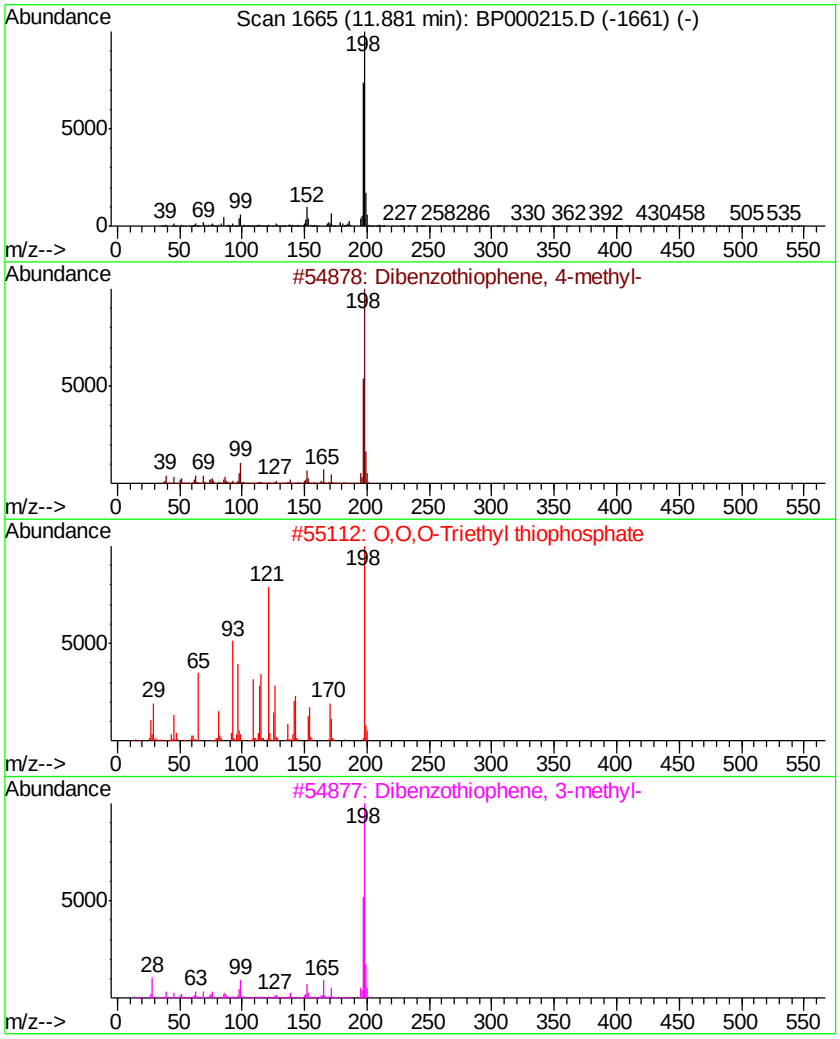
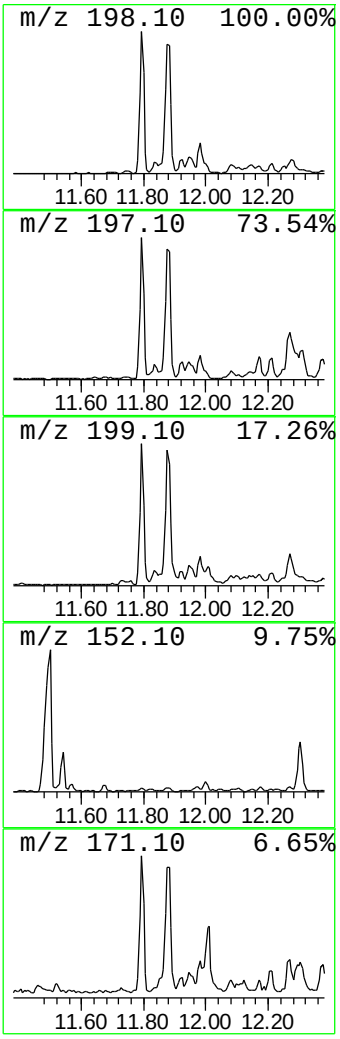
Peak Number 13 Dibenzothiophene, 4-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	8.19 ng/ul	925363	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	80
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	74
4	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	64
5	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	56





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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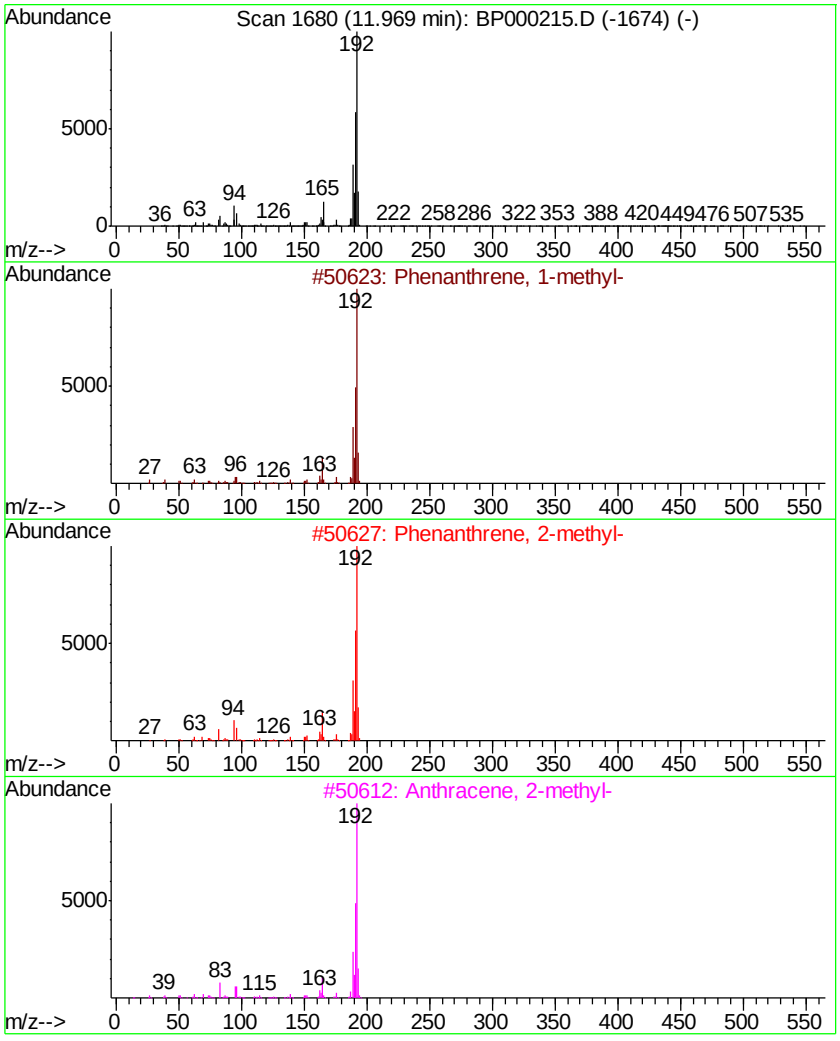
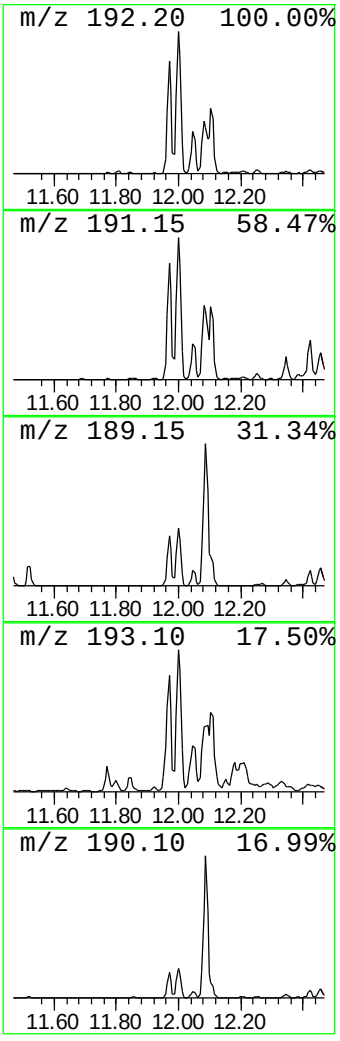
Peak Number 14 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	37.27 ng/ul	4210880	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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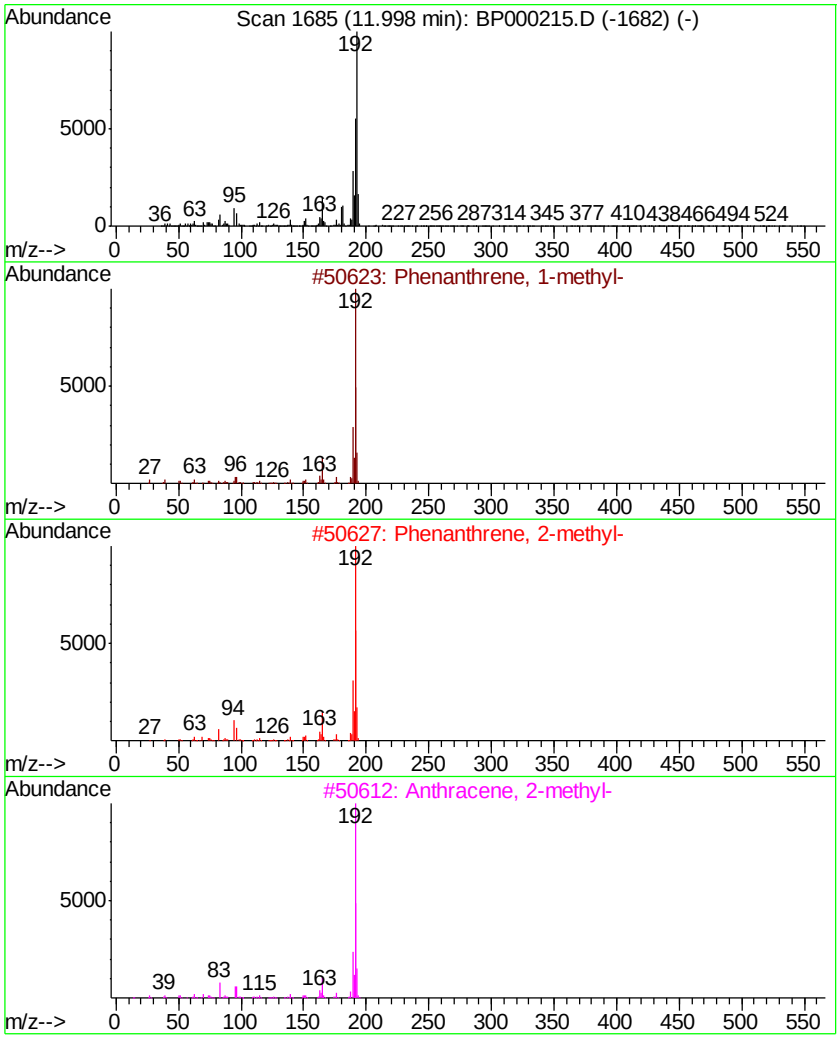
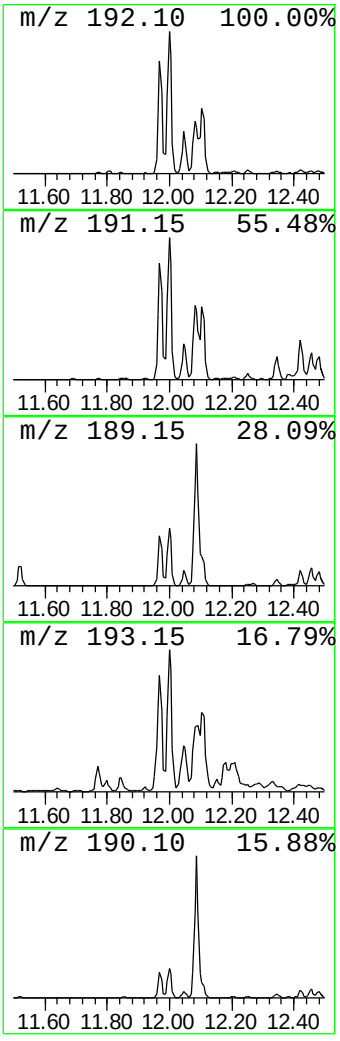
Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	55.28 ng/ul	6245120	Phenanthrene-d10	11.46

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-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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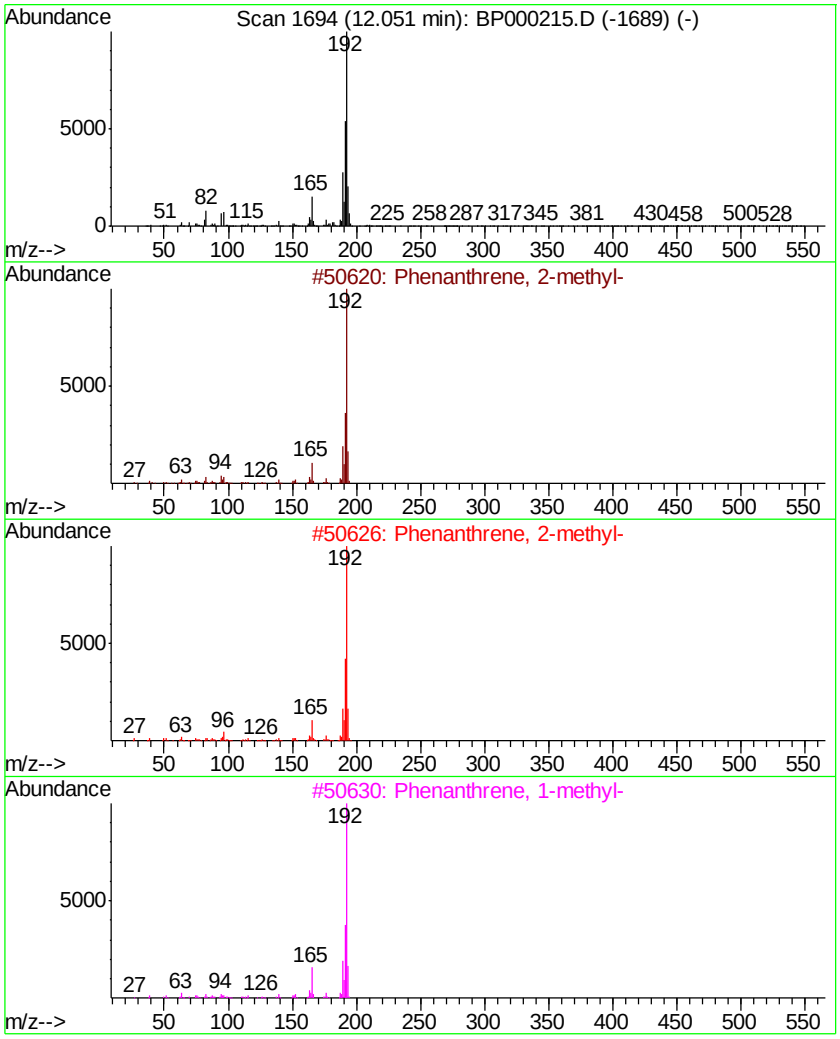
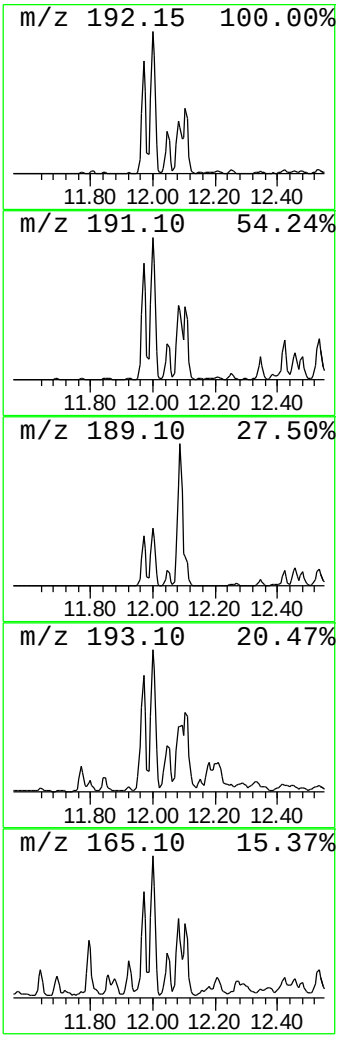
Peak Number 16 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	12.89 ng/ul	1456260	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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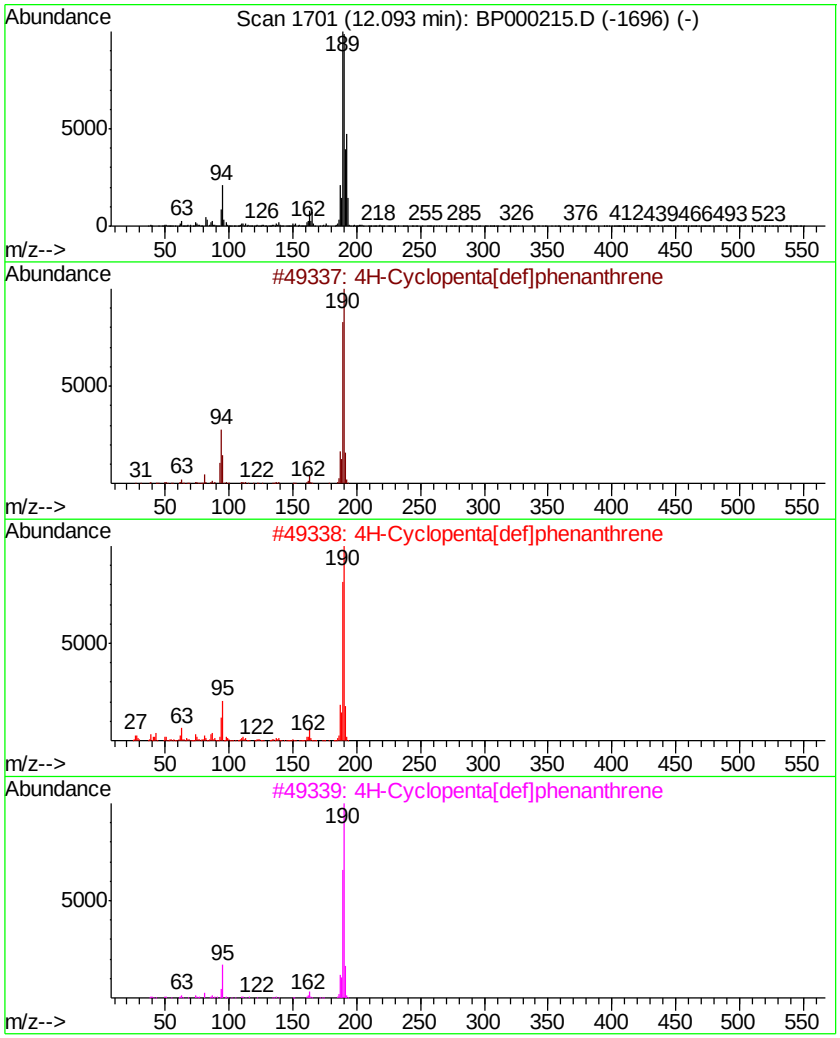
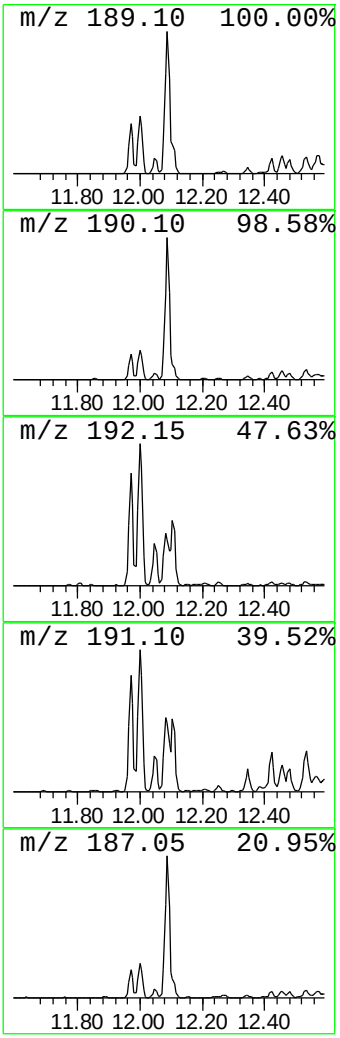
Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	54.89 ng/ul	6201870	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47





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Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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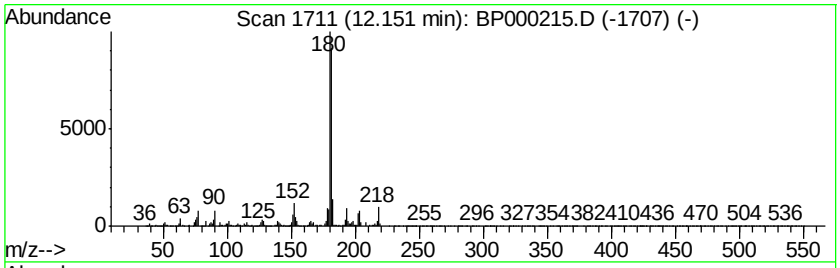
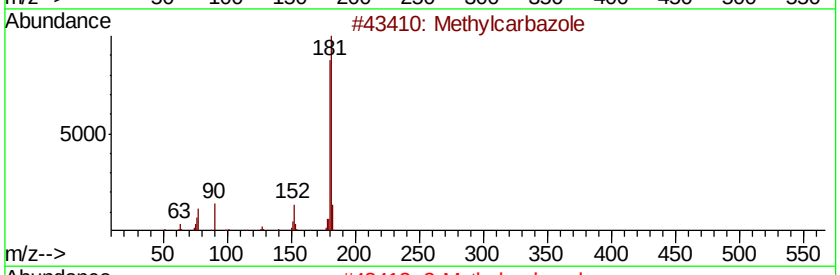
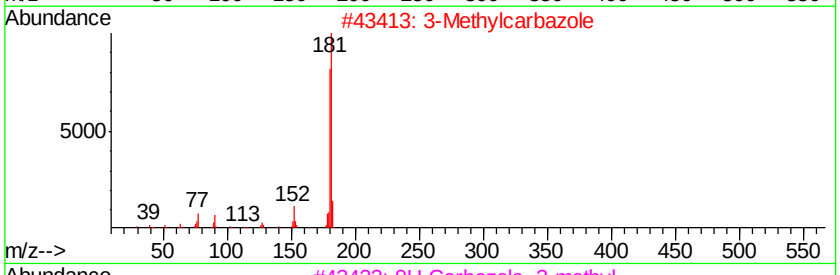
Peak Number 19 Methylcarbazole Concentration Rank 29

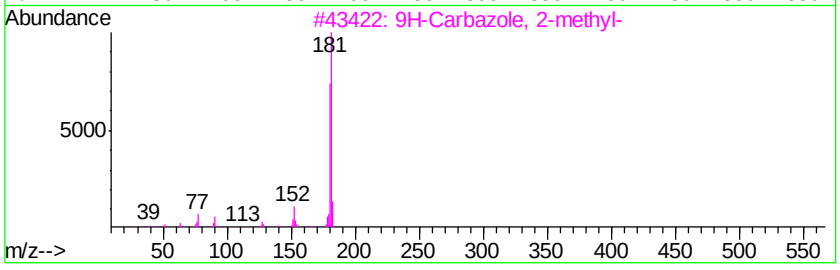
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	5.13 ng/ul	579435	Phenanthrene-d10	11.46

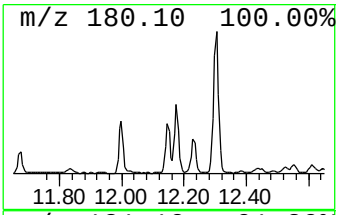
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylcarbazole	181	C13H11N	027323-29-1	97
2	3-Methylcarbazole	181	C13H11N	004630-20-0	97
3	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	96
4	3-Methylcarbazole	181	C13H11N	004630-20-0	96
5	4-Methylcarbazole	181	C13H11N	003770-48-7	95

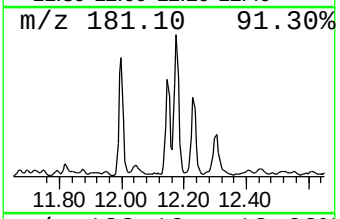


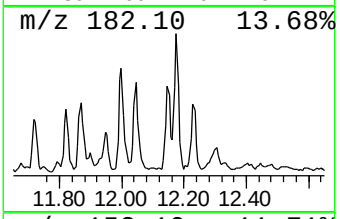


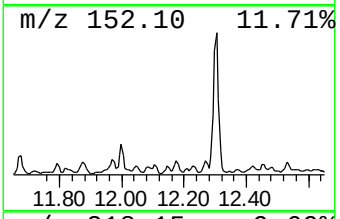


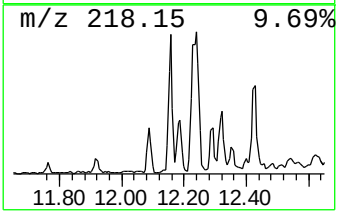












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Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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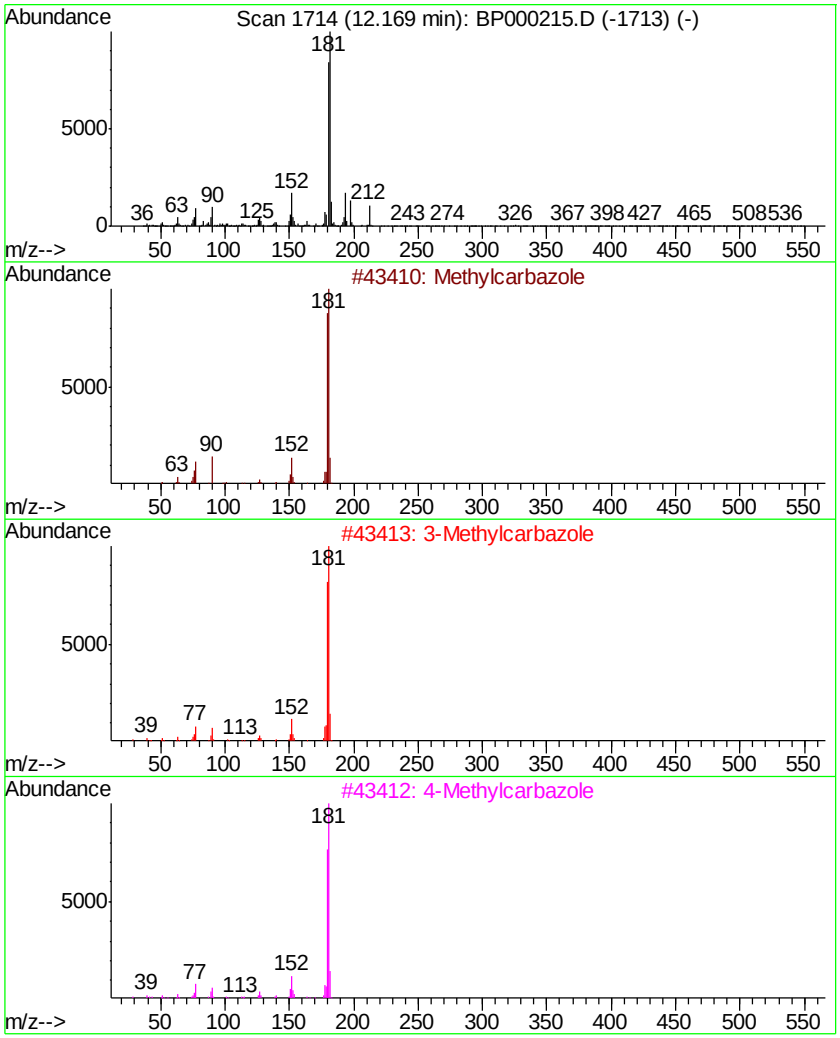
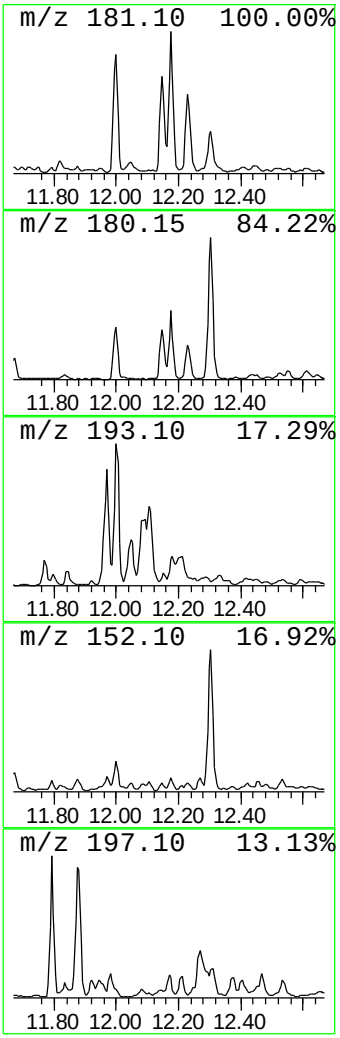
Peak Number 20 3-Methylcarbazole Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	5.19 ng/ul	586539	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylcarbazole	181	C13H11N	027323-29-1	95
2	3-Methylcarbazole	181	C13H11N	004630-20-0	93
3	4-Methylcarbazole	181	C13H11N	003770-48-7	92
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	91
5	3-Methylcarbazole	181	C13H11N	004630-20-0	90





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Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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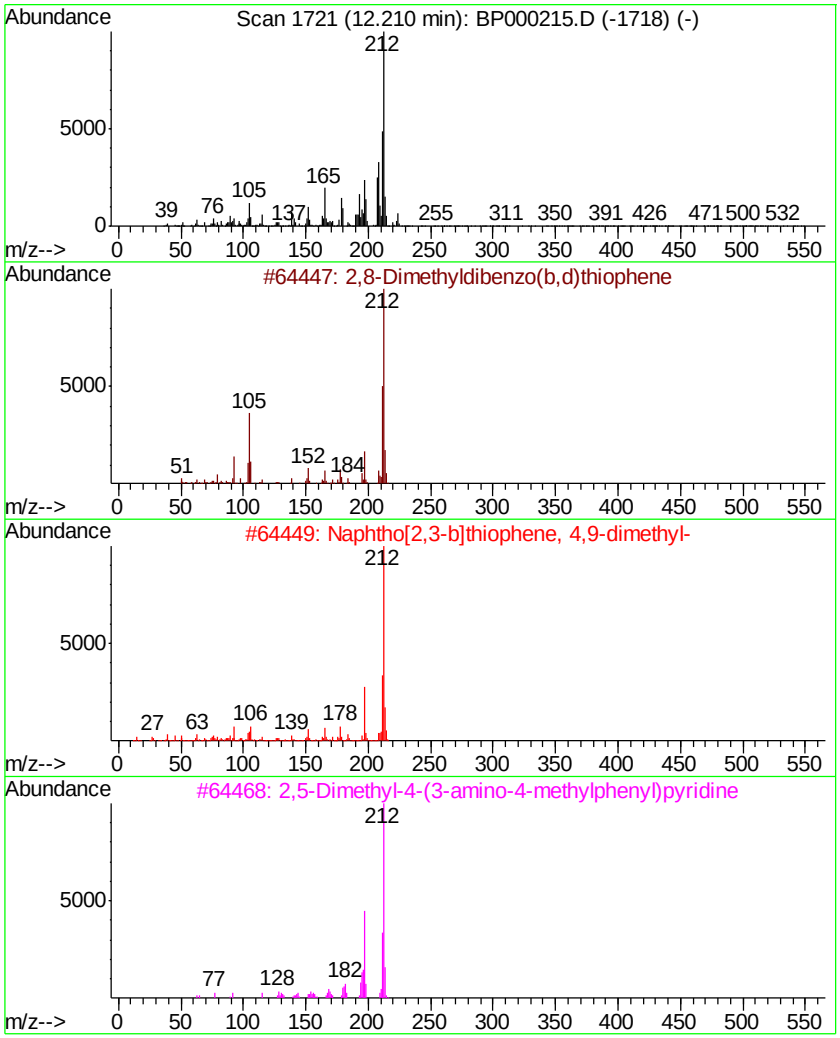
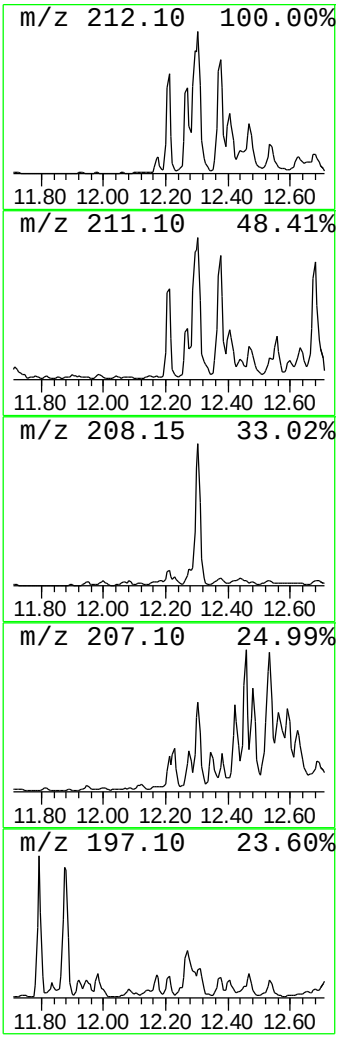
Peak Number 21 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	4.53 ng/ul	512236	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	86
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	64
3	2,5-Dimethyl-4-(3-amino-4-methyl...	212	C14H16N2	071153-33-8	47
4	Acridin-9-amine, 1,2,3,4-tetrahy...	212	C14H16N2	005778-78-9	47
5	9,10-Anthracenedione, 1,4,4a,9a-...	212	C14H12O2	056136-14-2	43





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 22 2-Phenylnaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	21.34 ng/ul	2411270	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
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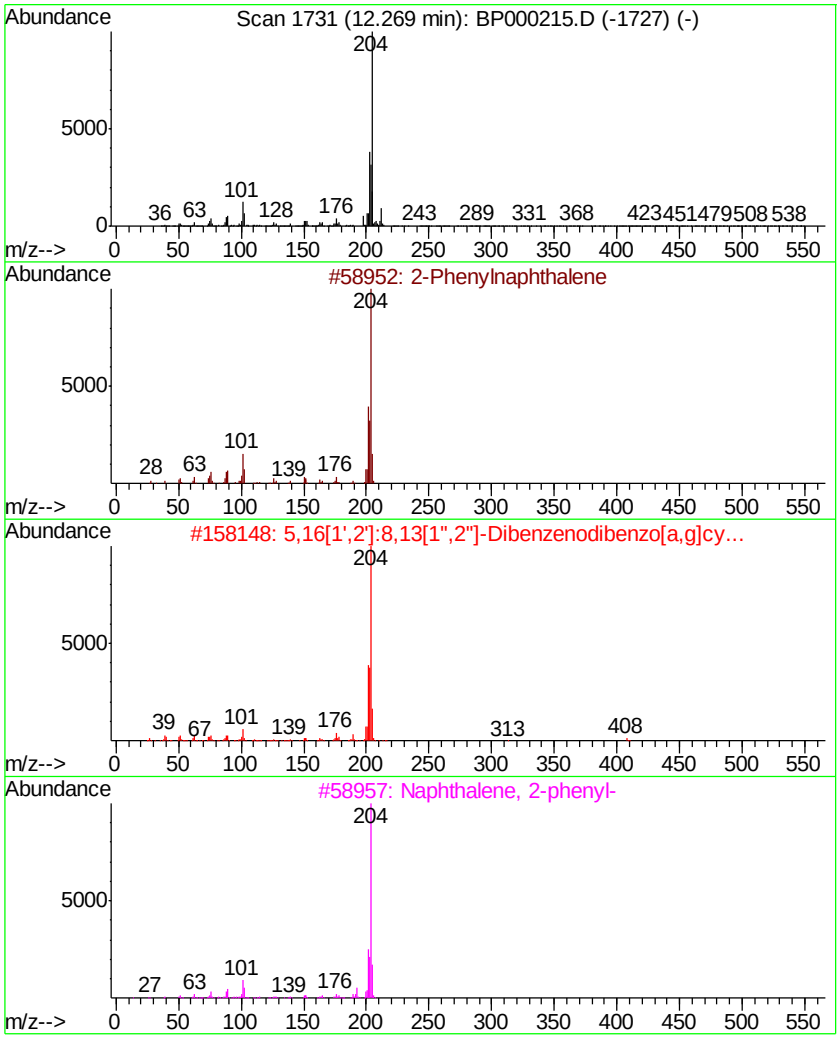

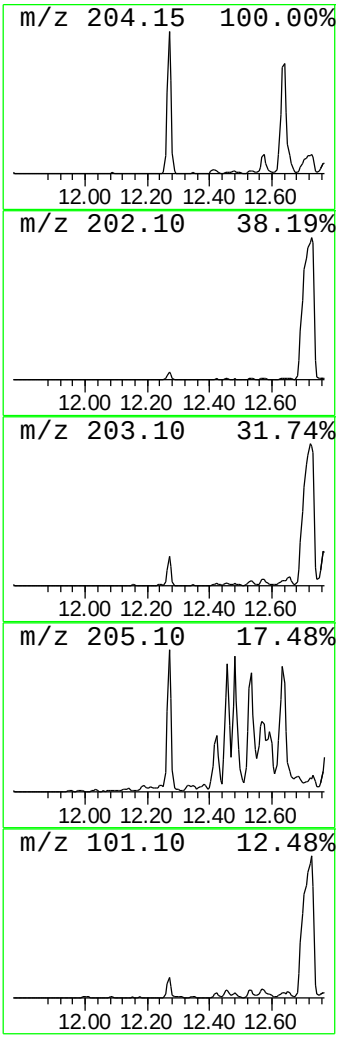

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Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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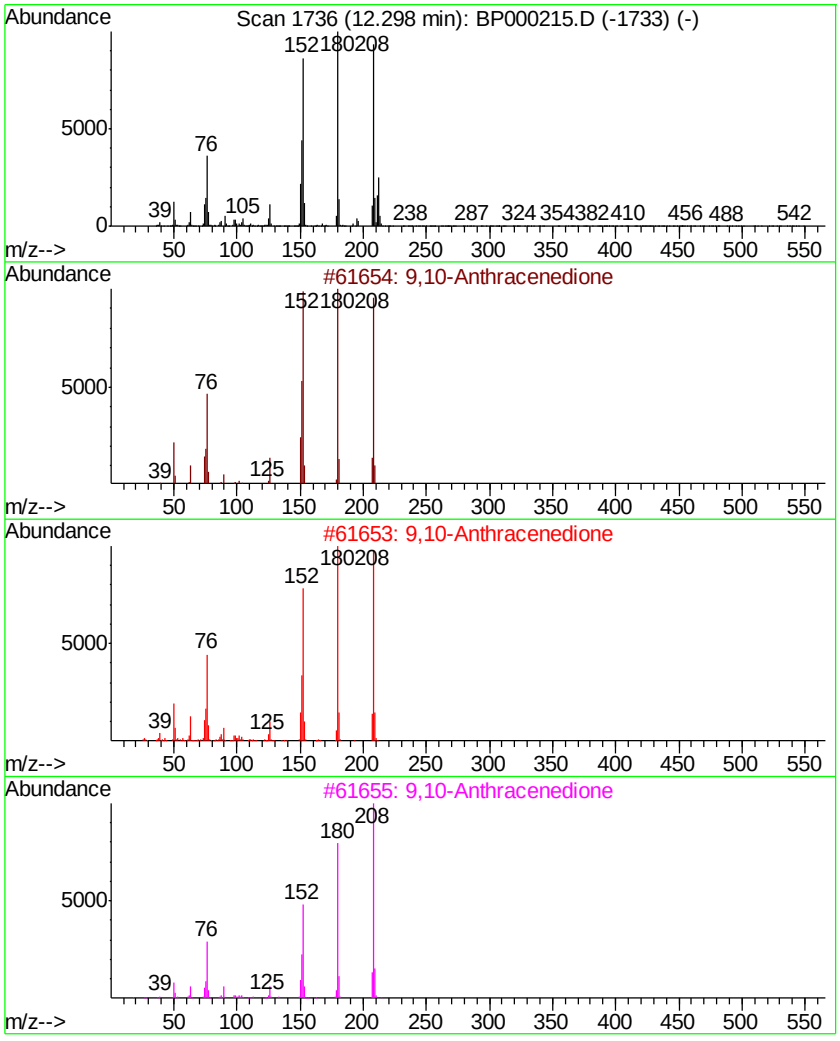
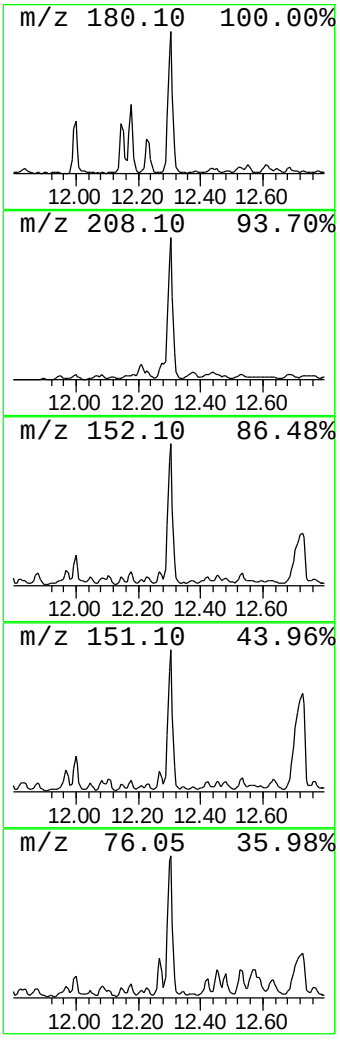
Peak Number 23 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	26.93 ng/ul	3042770	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60





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ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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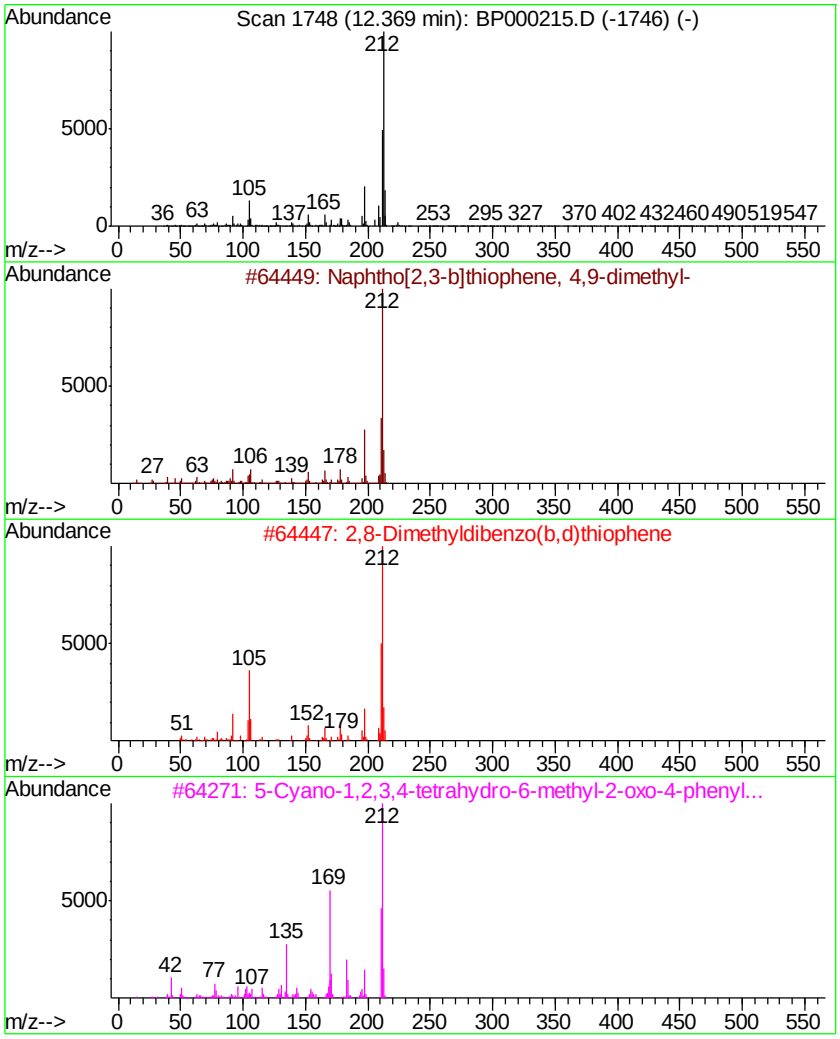
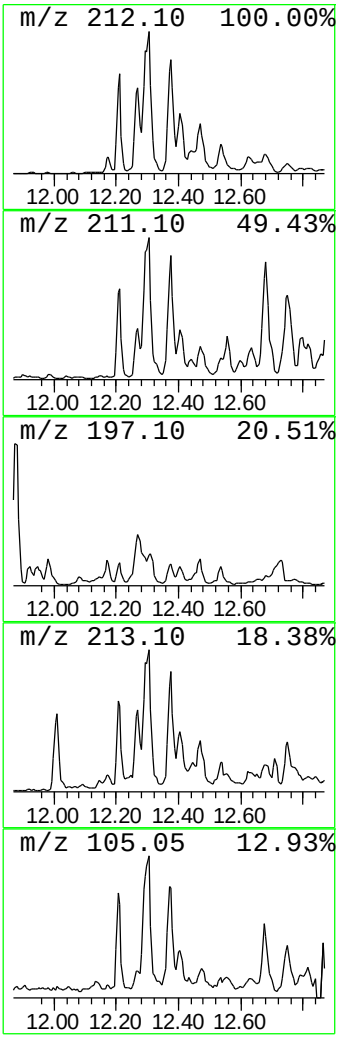
Peak Number 24 Naphtho[2,3-b]thiophene, 4,... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	3.12 ng/ul	352929	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	91
2	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	91
3	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	64
4	Harmine	212	C13H12N2O	000442-51-3	50
5	Harmine, ethenyl(ester)	212	C14H12O2	074797-84-5	50





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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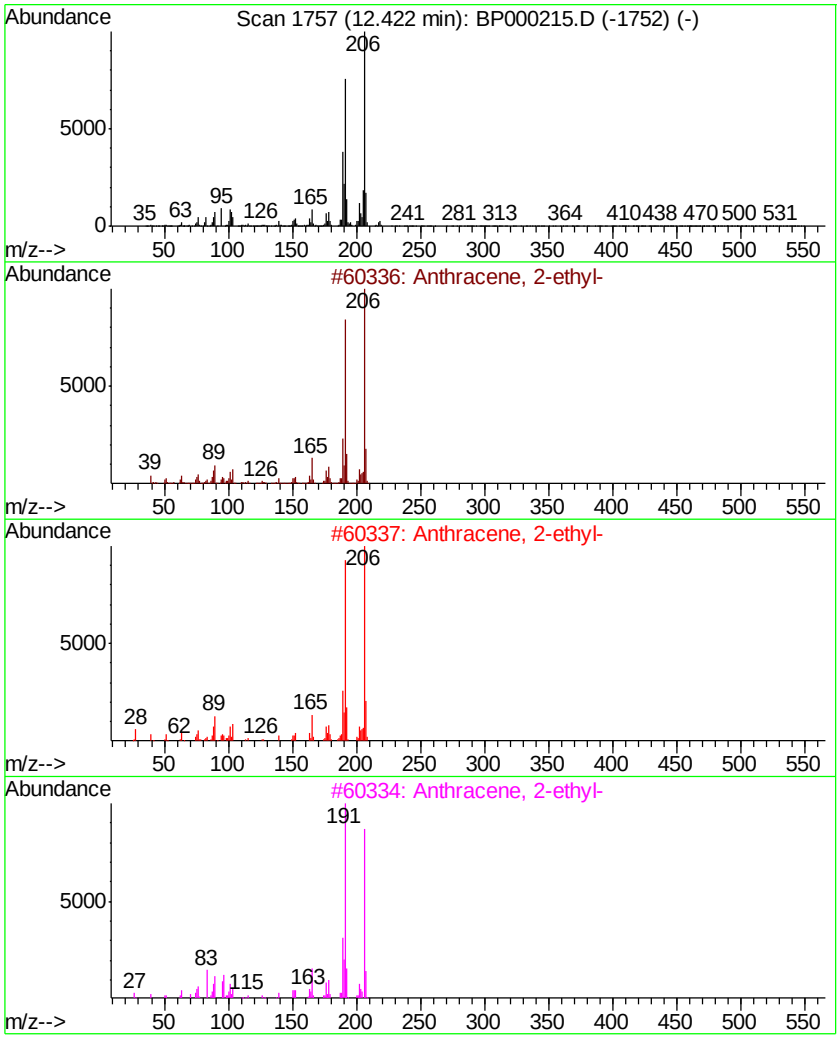
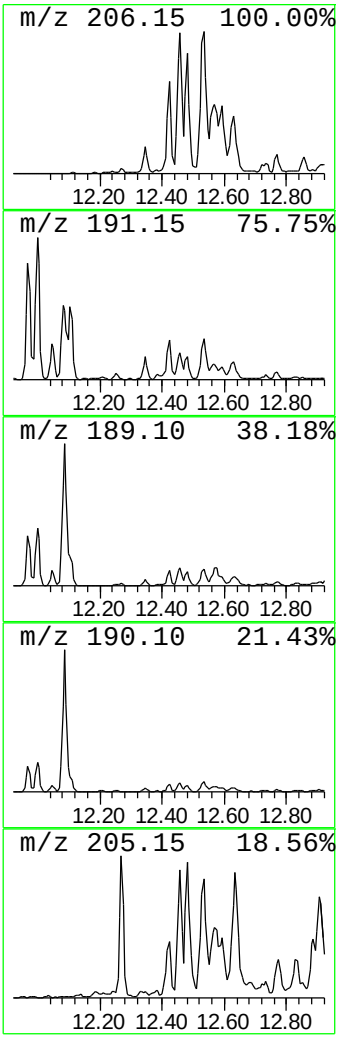
Peak Number 25 Phenanthrene, 4,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	15.12 ng/ul	1707970	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	94
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	94
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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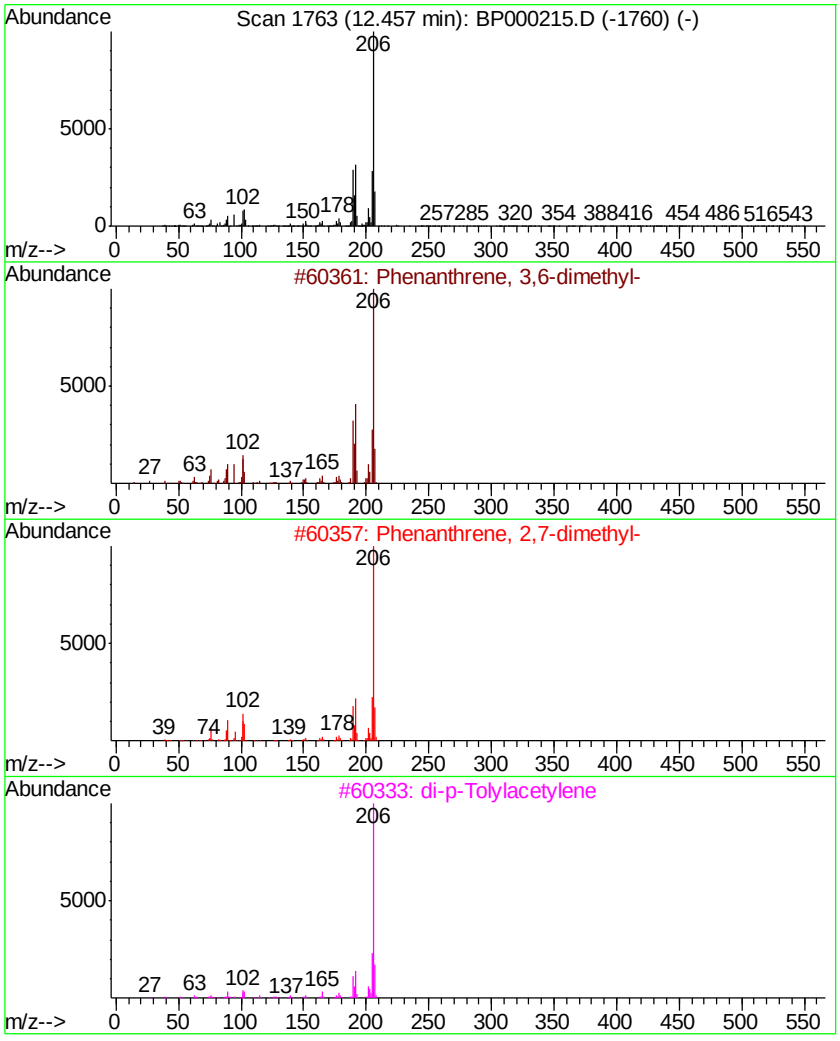
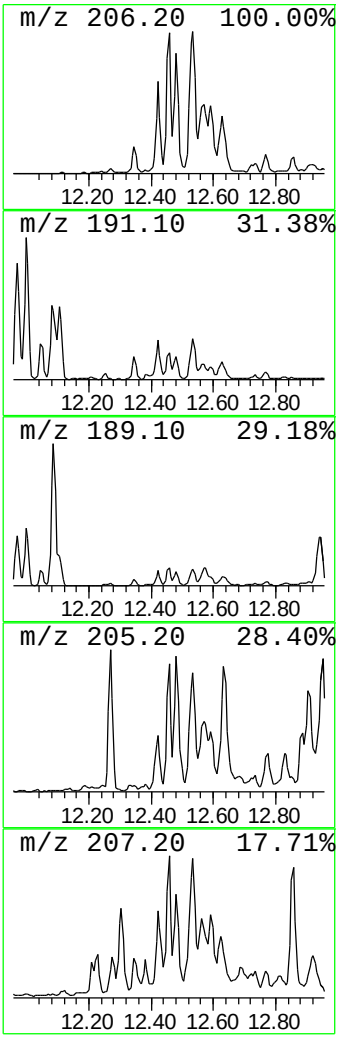
Peak Number 26 Phenanthrene, 3,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	13.26 ng/ul	1498110	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93





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ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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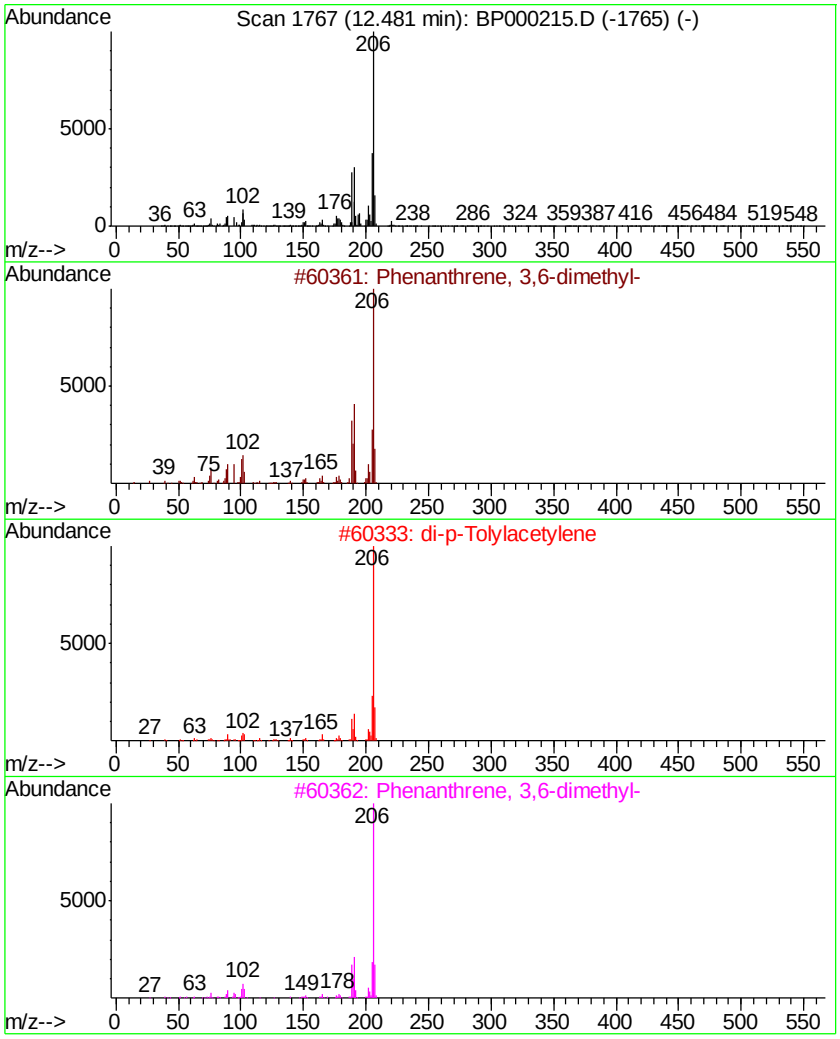
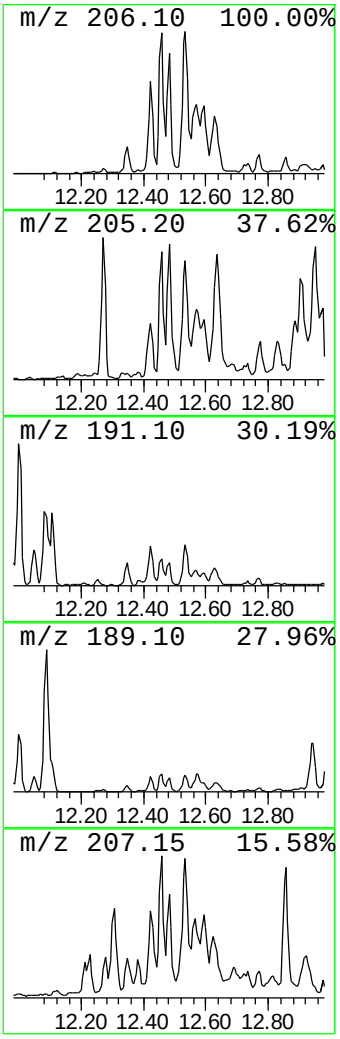
Peak Number 27 di-p-Tolylacetylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	12.74 ng/ul	1439240	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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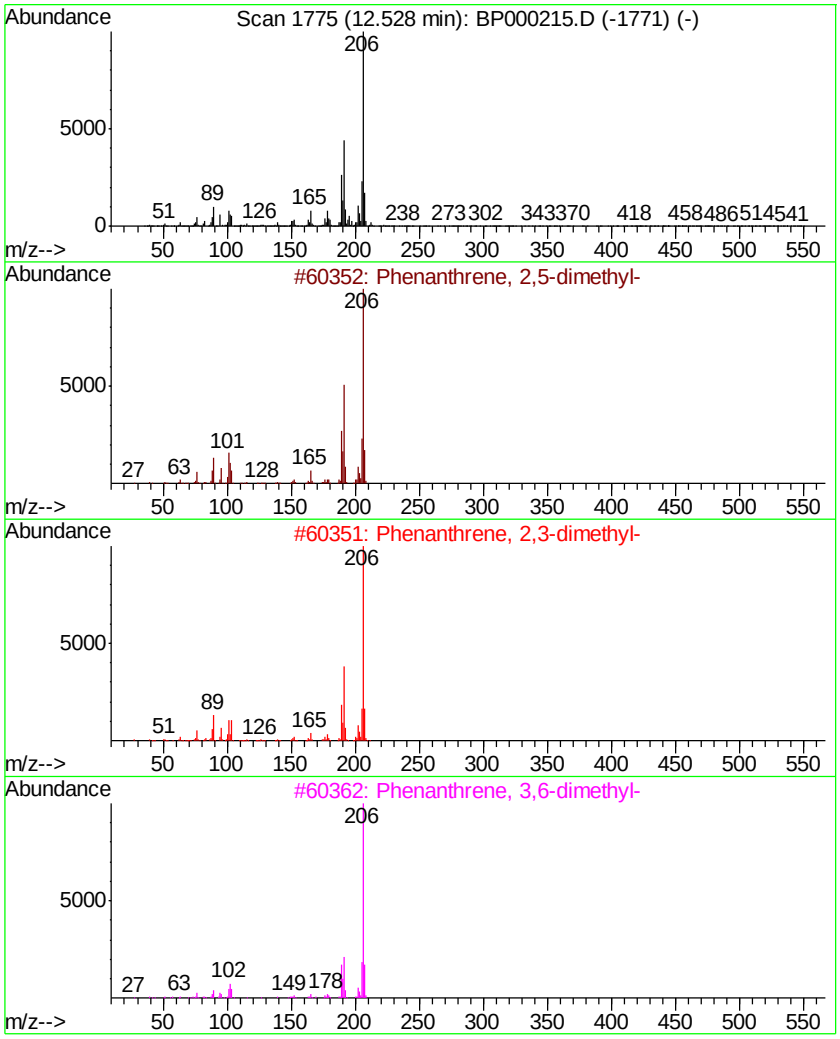
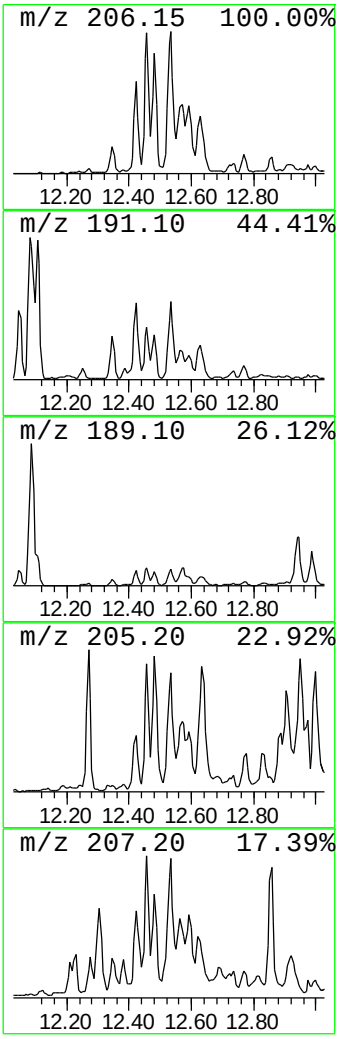
Peak Number 28 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	24.80 ng/ul	2801890	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





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Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

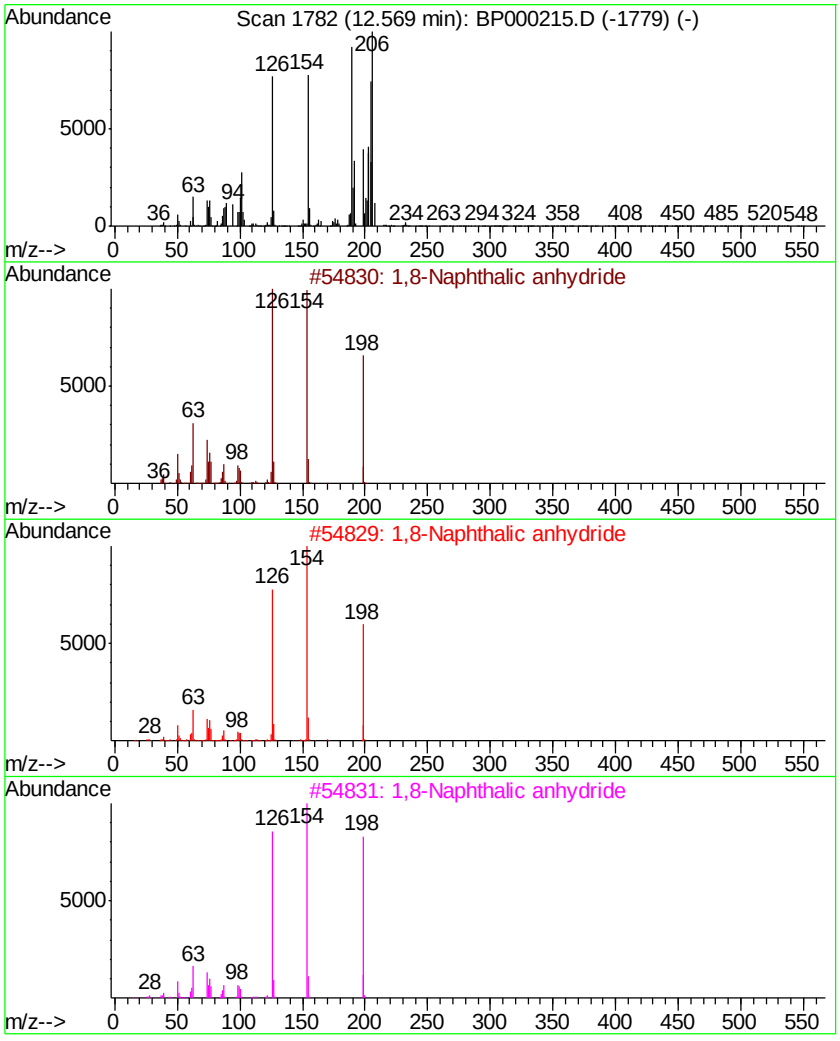
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

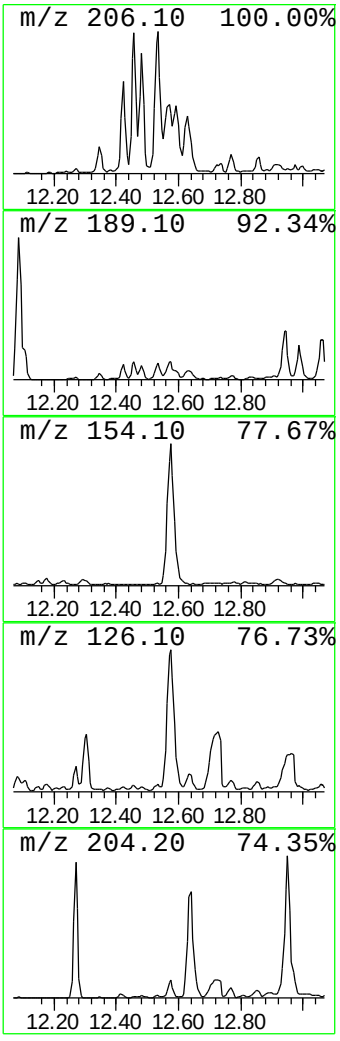
****

Peak Number 29 1,8-Naphthalic anhydride Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	22.48 ng/ul	2540100	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	92
2	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	78
3	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	76
4	1,8-Naphthalic anhydride	198	C12H6O3	000081-84-5	74
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	15





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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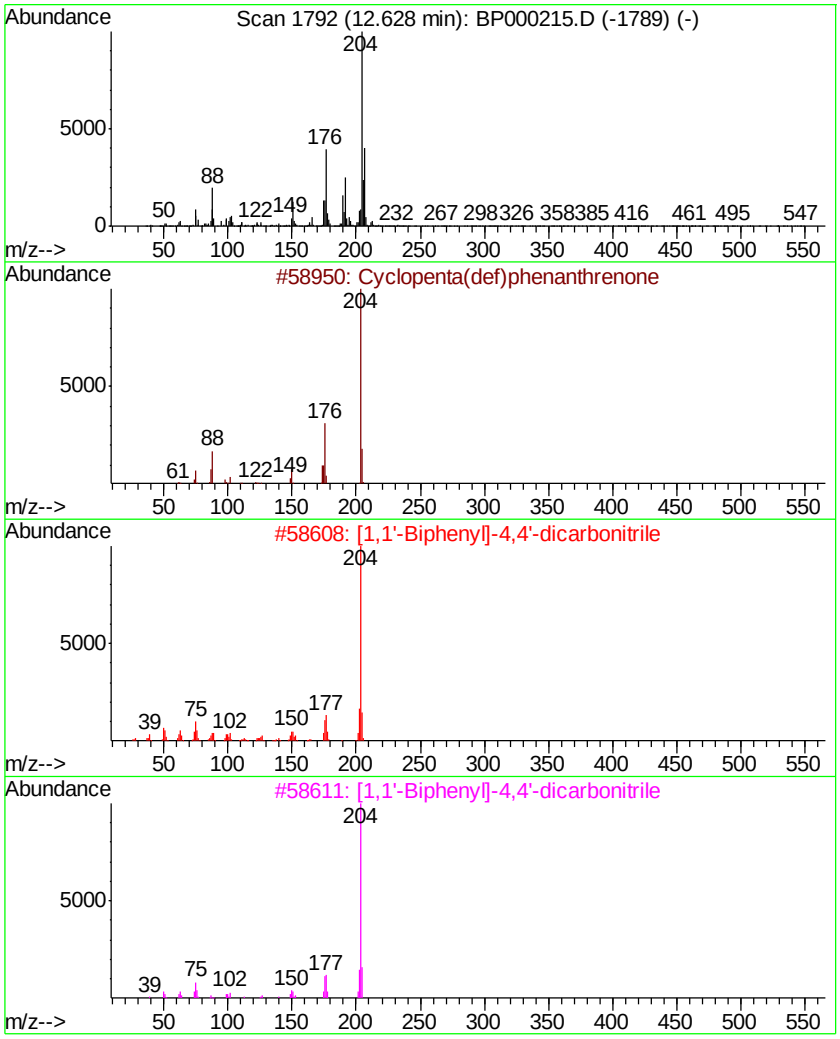
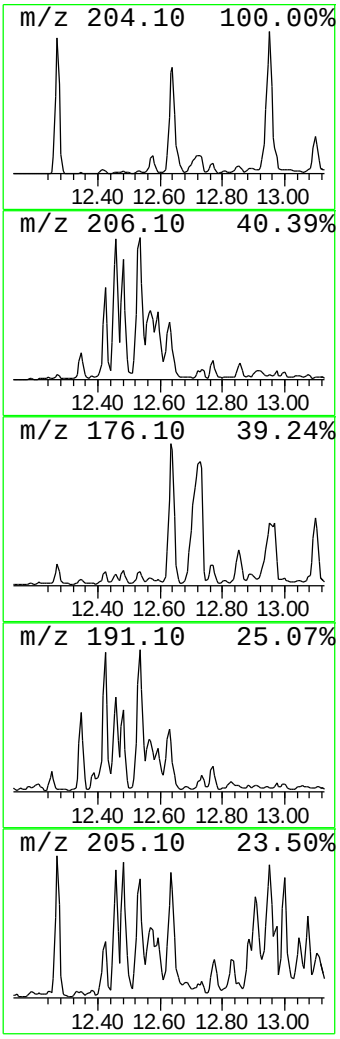
Peak Number 30 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	30.14 ng/ul	3405170	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091219\
Data File : BP000215.D
Acq On : 12 Sep 2019 14:02
Operator : HP/JU
Sample : K4634-12
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D30

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.16	131.0	ng/ul	13080500	1	6.89	1997050	20.0
Naphthalene, 1-me...	8.99	3.6	ng/ul	512531	2	8.18	2879740	20.0
Naphthalene, 2,6-...	9.52	2.9	ng/ul	405183	3	9.95	2756650	20.0
9H-Fluoren-9-ol	10.66	4.0	ng/ul	544840	3	9.95	2756650	20.0
[1,1'-Biphenyl]-4...	10.74	6.8	ng/ul	770584	4	11.46	2259600	20.0
1(2H)-Acenaphthyl...	10.87	12.9	ng/ul	1460040	4	11.46	2259600	20.0
Phenanthrene, 9,1...	11.03	5.9	ng/ul	670008	4	11.46	2259600	20.0
9H-Fluoren-9-one	11.26	20.6	ng/ul	2325280	4	11.46	2259600	20.0
Anthracene, 1,2,3...	11.32	13.3	ng/ul	1506960	4	11.46	2259600	20.0
Dibenzothiophene	11.35	20.3	ng/ul	2290300	4	11.46	2259600	20.0
Anthracene, 9-eth...	11.76	4.6	ng/ul	520017	4	11.46	2259600	20.0
Thioxanthene	11.79	7.6	ng/ul	857273	4	11.46	2259600	20.0
Dibenzothiophene,...	11.88	8.2	ng/ul	925363	4	11.46	2259600	20.0
Phenanthrene, 1-m...	11.97	37.3	ng/ul	4210880	4	11.46	2259600	20.0
Phenanthrene, 2-m...	12.00	55.3	ng/ul	6245120	4	11.46	2259600	20.0
Anthracene, 2-met...	12.05	12.9	ng/ul	1456260	4	11.46	2259600	20.0
4H-Cyclopenta[def...	12.09	54.9	ng/ul	6201870	4	11.46	2259600	20.0
Methylcarbazole	12.15	5.1	ng/ul	579435	4	11.46	2259600	20.0
3-Methylcarbazole	12.17	5.2	ng/ul	586539	4	11.46	2259600	20.0
2,8-Dimethyldiben...	12.21	4.5	ng/ul	512236	4	11.46	2259600	20.0
2-Phenylnaphthalene	12.27	21.3	ng/ul	2411270	4	11.46	2259600	20.0
9,10-Anthracenedione	12.30	26.9	ng/ul	3042770	4	11.46	2259600	20.0
Naphtho[2,3-b]thi...	12.37	3.1	ng/ul	352929	4	11.46	2259600	20.0
Phenanthrene, 4,5...	12.42	15.1	ng/ul	1707970	4	11.46	2259600	20.0
Phenanthrene, 3,6...	12.46	13.3	ng/ul	1498110	4	11.46	2259600	20.0
di-p-Tolylacetylene	12.48	12.7	ng/ul	1439240	4	11.46	2259600	20.0
9,10-Dimethylanth...	12.53	24.8	ng/ul	2801890	4	11.46	2259600	20.0
1,8-Naphthalic an...	12.57	22.5	ng/ul	2540100	4	11.46	2259600	20.0
Cyclopenta(def)ph...	12.63	30.1	ng/ul	3405170	4	11.46	2259600	20.0