LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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	2.163	7	13	21	rVB	900076	1171849	13.52%	1.250%
2	2.281	30	33	43	rVB	19227	27404	0.32%	0.029%
3	6.516	750	753	759	rBV2	160683	144639	1.67%	0.154%
4	6.575	759	763	767	rVV	144520	111231	1.28%	0.119%
5	6.663	775	778	782	rBV	181083	139725	1.61%	0.149%
6	6.899	814	818	821	rBV	1893766	1411892	16.29%	1.506%
7	7.263	877	880	888	rVV	152435	124781	1.44%	0.133%
8	7.451	907	912	918	rBV	162712	131882	1.52%	0.141%
9	7.781	964	968	971	rBV	117451	98008	1.13%	0.105%
10	8.022	1006	1009	1012	rBV	191107	143466	1.66%	0.153%
11	8.181	1033	1036	1040	rBV	2296267	1890913	21.82%	2.017%
12	8.240	1043	1046	1050	rVV	58458	59795	0.69%	0.064%
13	8.898	1155	1158	1163	rVB	91545	71778	0.83%	0.077%
14	8.998	1171	1175	1179	rBV2	64689	62589	0.72%	0.067%
15	9.463	1251	1254	1259	rBV	32840	33850	0.39%	0.036%
16	9.528	1261	1265	1270	rBV	94784	130152	1.50%	0.139%
17	9.604	1275	1278	1281	rBV	115434	121932	1.41%	0.130%
18	9.634	1281	1283	1285	rVV	359308	261702	3.02%	0.279%
19	9.657	1285	1287	1293	rVB	80231	62174	0.72%	0.066%
20	9.728	1296	1299	1307	rBV	49337	71132	0.82%	0.076%
21	9.792	1307	1310	1317	rBV	346529	343935	3.97%	0.367%
22	9.951	1333	1337	1340	rBV	2748901	2254858	26.02%	2.405%
23	9.987	1340	1343	1346	rVB	240223	223867	2.58%	0.239%
24	10.051	1351	1354	1359	rVV2	68437	108717	1.25%	0.116%
25	10.157	1369	1372	1376	rVB	128749	117727	1.36%	0.126%
26	10.198	1376	1379	1389	rVB	93109	110035	1.27%	0.117%
27	10.269	1389	1391	1394	rBV	44887	43875	0.51%	0.047%
28	10.304	1394	1397	1402	rVB	61230	59800	0.69%	0.064%
29	10.475	1423	1426	1429	rBV	386660	304881	3.52%	0.325%
30	10.504	1429	1431	1434	rVB2	83192	60550	0.70%	0.065%
31	10.569	1437	1442	1445	rBV3	63127	92850	1.07%	0.099%
32	10.663	1456	1458	1462	rVB2	43967	47814	0.55%	0.051%
33	10.751	1470	1473	1477	rVB3	30540	35181	0.41%	0.038%
34	10.787	1477	1479	1484	rBV3	24229	33962	0.39%	0.036%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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	10.875	1491	1494	1499	rBV3	60539	72302	0.83%	0.077%
36	10.957	1506	1508	1511	rBV3	29322	36585	0.42%	0.039%
37	11.092	1528	1531	1534	rBV3	81644	96751	1.12%	0.103%
38	11.257	1557	1559	1563	rBV	78111	79425	0.92%	0.085%
39	11.351	1572	1575	1586	rVB	225521	236325	2.73%	0.252%
40	11.457	1589	1593	1595	rBV	2295795	2160086	24.93%	2.304%
41	11.481	1595	1597	1601	rVV	2166135	2109075	24.34%	2.249%
42	11.516	1601	1603	1604	rVV	367386	310587	3.58%	0.331%
43	11.534	1604	1606	1609	rVB	468309	387455	4.47%	0.413%
44	11.692	1630	1633	1642	rVB	192950	257783	2.98%	0.275%
45	11.798	1647	1651	1659	rVV	309636	363650	4.20%	0.388%
46	11.881	1662	1665	1670	rVB	317004	368459	4.25%	0.393%
47	11.969	1677	1680	1683	rBV	991850	1045108	12.06%	1.115%
48	11.998	1683	1685	1690	rVB	1492462	1448185	16.71%	1.545%
49	12.045	1690	1693	1696	rBV2	225936	232742	2.69%	0.248%
50	12.081	1696	1699	1702	rVV	443871	512921	5.92%	0.547%
51	12.104	1702	1703	1709	rVB	389499	338669	3.91%	0.361%
52	12.175	1713	1715	1718	rBV	78139	76246	0.88%	0.081%
53	12.210	1718	1721	1725	rBV	200169	175260	2.02%	0.187%
54	12.269	1728	1731	1733	rBV	382808	368089	4.25%	0.393%
55	12.304	1733	1737	1742	rVB2	380452	636313	7.34%	0.679%
56	12.351	1742	1745	1747	rBV	120383	127329	1.47%	0.136%
57	12.381	1747	1750	1752	rBV	190590	210117	2.42%	0.224%
58	12.428	1752	1758	1760	rBV2	565649	650693	7.51%	0.694%
59	12.457	1760	1763	1766	rBV	866126	939358	10.84%	1.002%
60	12.486	1766	1768	1772	rVB	722093	675567	7.80%	0.721%
61	12.534	1772	1776	1779	rBV	869472	1100314	12.70%	1.174%
62	12.569	1779	1782	1785	rVV3	263312	332943	3.84%	0.355%
63	12.592	1785	1786	1788	rVB	259149	147105	1.70%	0.157%
64	12.622	1788	1791	1795	rVB2	513608	533180	6.15%	0.569%
65	12.663	1795	1798	1801	rVB	229890	213467	2.46%	0.228%
66	12.704	1801	1805	1810	rBV	3112393	3700748	42.71%	3.947%
67	12.745	1810	1812	1815	rBV	216999	260789	3.01%	0.278%
68	12.822	1823	1825	1827	rVB	102252	76275	0.88%	0.081%
69	12.857	1827	1831	1834	rBV3	494649	705327	8.14%	0.752%
70	12.886	1834	1836	1838	rVB	237545	178893	2.06%	0.191%
71	12.939	1838	1845	1851	rBV	4293727	6432072	74.23%	6.860%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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	12.998	1851	1855	1859	rVB3	728896	913713	10.55%	0.975%
73	13.045	1859	1863	1866	rBV3	402902	614725	7.09%	0.656%
74	13.075	1866	1868	1871	rBV2	288093	290970	3.36%	0.310%
75	13.163	1878	1883	1889	rBV4	601777	1164935	13.44%	1.242%
76	13.216	1889	1892	1895	rVV	479943	543873	6.28%	0.580%
77	13.275	1895	1902	1906	rVV	809914	1394846	16.10%	1.488%
78	13.322	1907	1910	1911	rVV	188806	212693	2.45%	0.227%
79	13.339	1911	1913	1917	rVV	430729	557934	6.44%	0.595%
80	13.386	1917	1921	1932	rVB	2820728	4566978	52.71%	4.871%
81	13.475	1932	1936	1939	rBV	1116589	1367126	15.78%	1.458%
82	13.510	1939	1942	1946	rVV	1016033	1150673	13.28%	1.227%
83	13.545	1946	1948	1953	rVB	456972	574745	6.63%	0.613%
84	13.598	1954	1957	1960	rVB	172438	191169	2.21%	0.204%
85	13.633	1961	1963	1965	rBV2	101430	102014	1.18%	0.109%
86	13.663	1965	1968	1970	rBV2	315115	405845	4.68%	0.433%
87	13.733	1971	1980	1984	rVV4	659203	1880796	21.71%	2.006%
88	13.781	1985	1988	1989	rVV	525427	628502	7.25%	0.670%
89	13.804	1989	1992	1997	rVV	1132976	2080207	24.01%	2.219%
90	13.869	2000	2003	2006	rVB	651567	785610	9.07%	0.838%
91	13.916	2006	2011	2019	rBV2	2286814	4383529	50.59%	4.675%
92	13.992	2022	2024	2027	rVV3	204118	194033	2.24%	0.207%
93	14.092	2038	2041	2043	rBV	316781	434936	5.02%	0.464%
94	14.175	2049	2055	2058	rBV2	3085349	6251974	72.15%	6.668%
95	14.210	2058	2061	2068	rVV	3613537	6537867	75.45%	6.973%
96	14.269	2068	2071	2077	rVV	1364730	2046990	23.62%	2.183%
97	14.351	2077	2085	2093	rVB	1654687	4010140	46.28%	4.277%
98	14.516	2109	2113	2115	rBV2	541719	817331	9.43%	0.872%
99	14.592	2116	2126	2130	rBV2	3642441	8664732	100.00%	9.241%
100	14.969	2183	2190	2194	rBV3	1217607	3286567	37.93%	3.505%

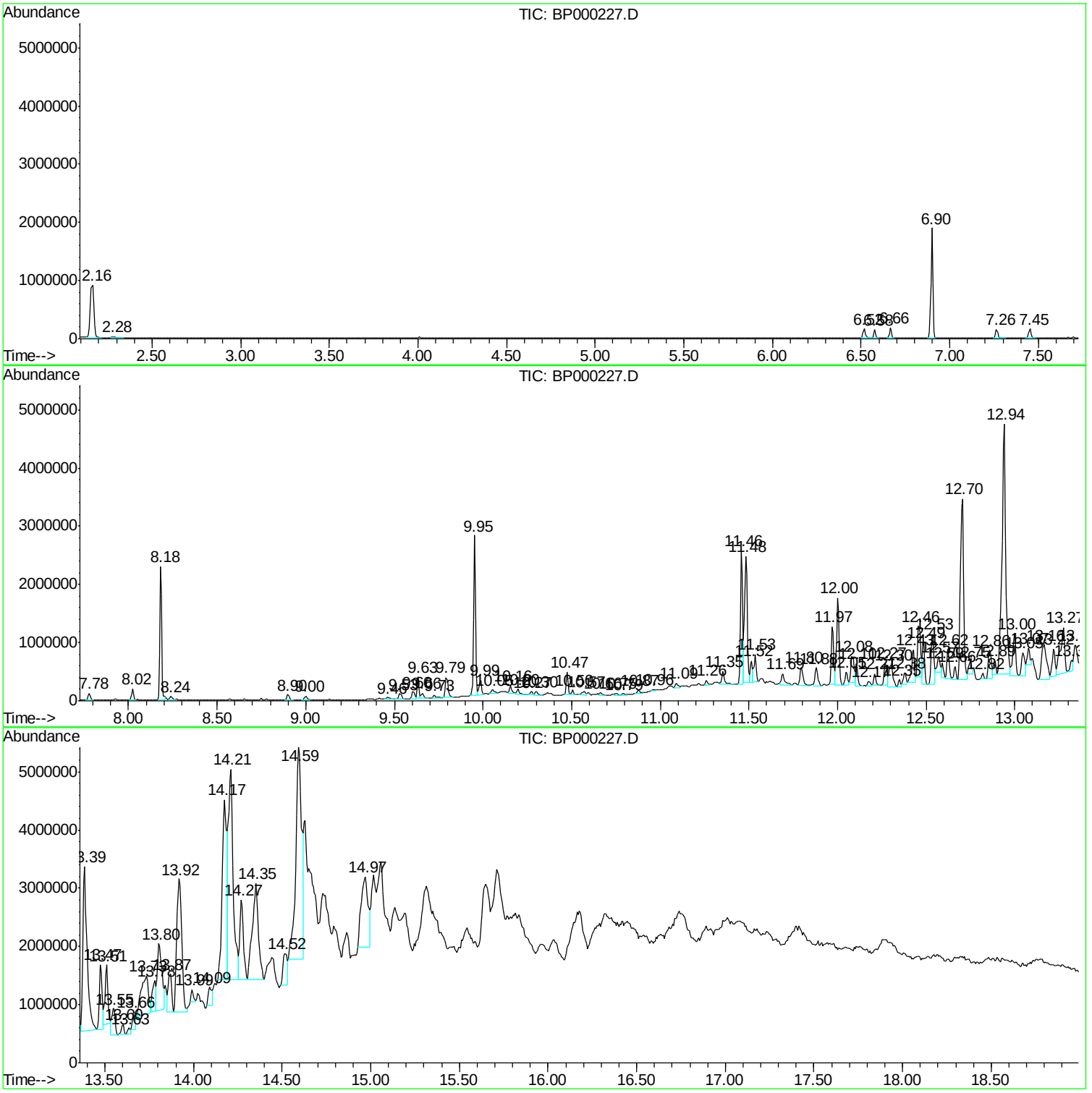
Sum of corrected areas: 93760592

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
F2D11

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

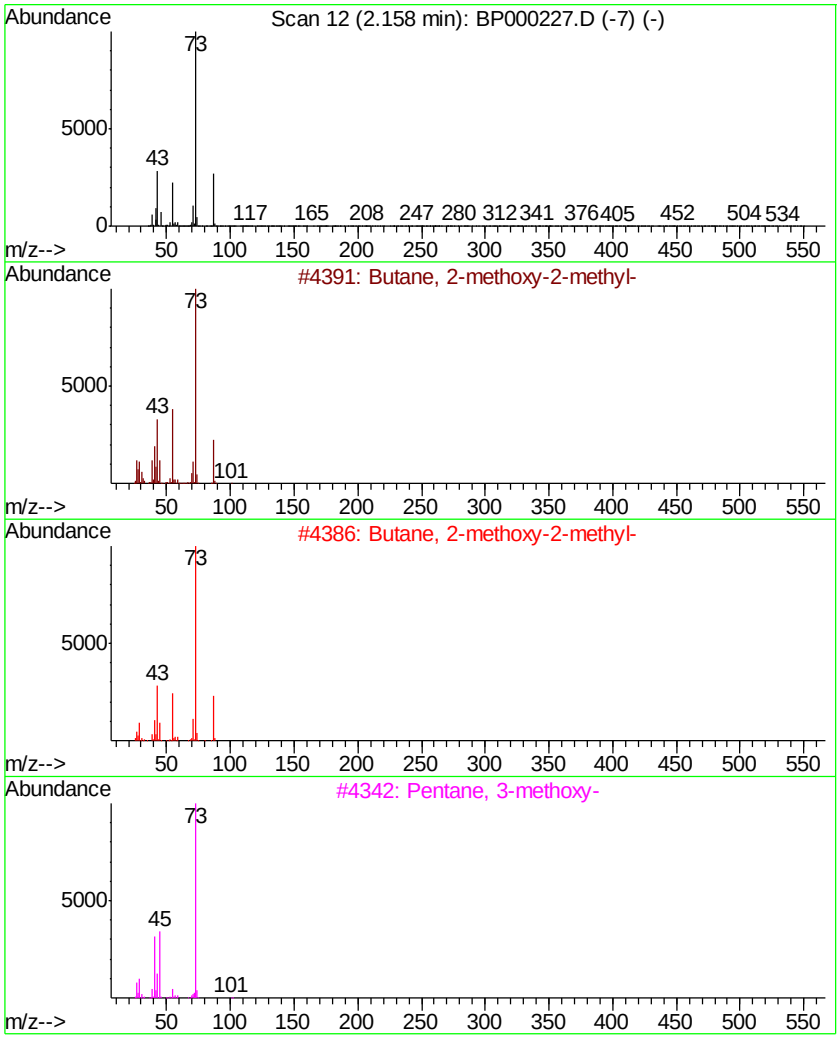
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

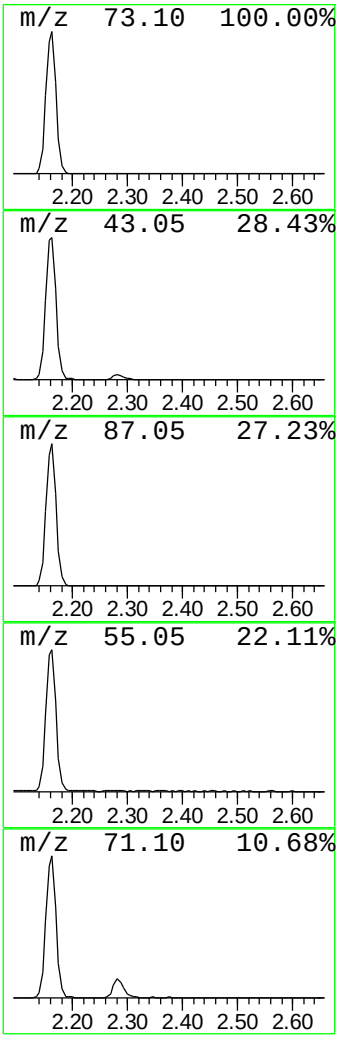
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.16	16.60 ng/ul	1171850	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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

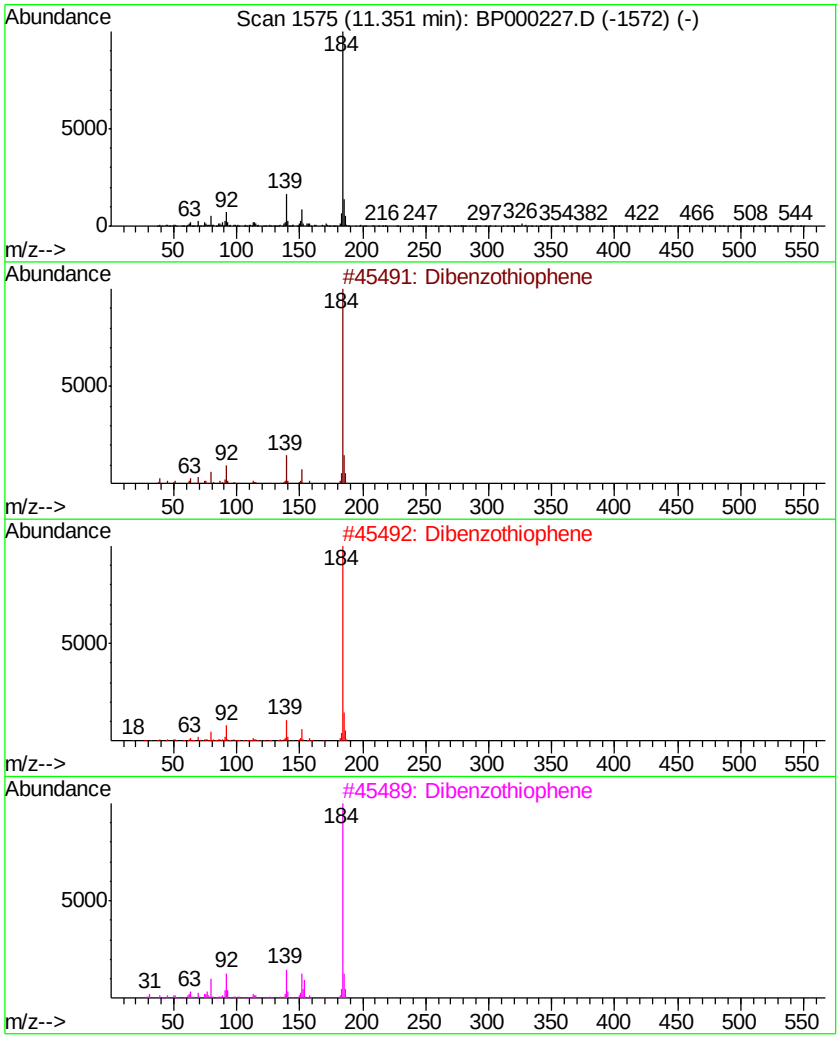
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

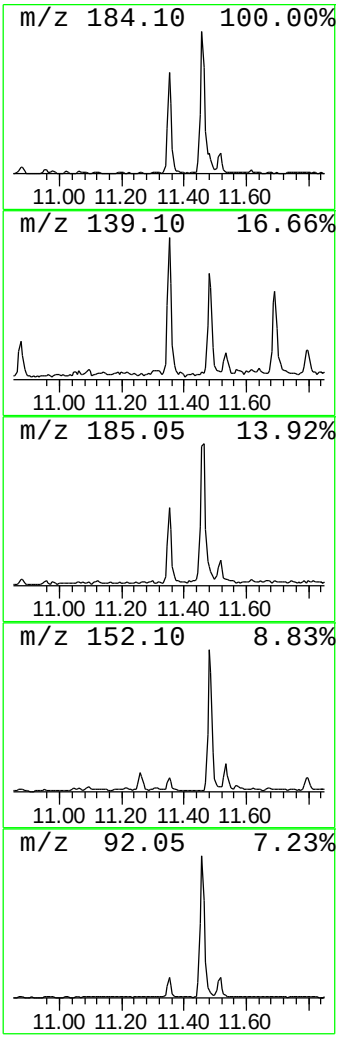
****

Peak Number 2 Dibenzothiophene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	2.19 ng/ul	236325	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	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

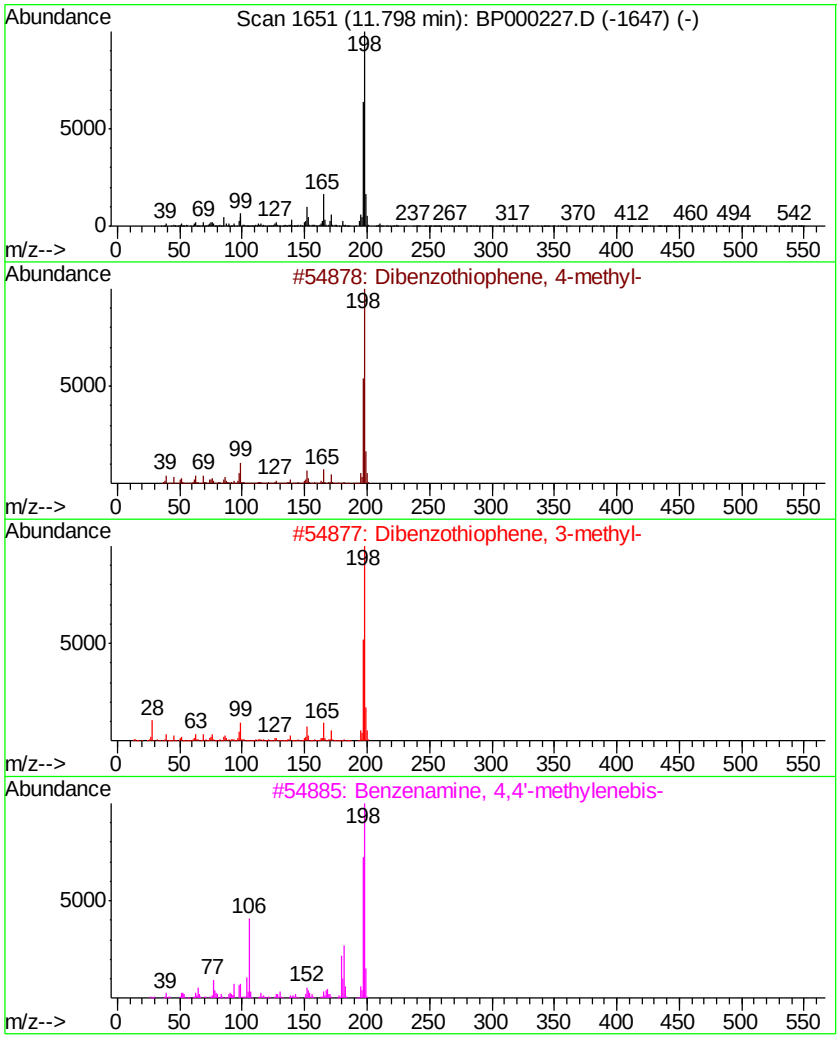
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

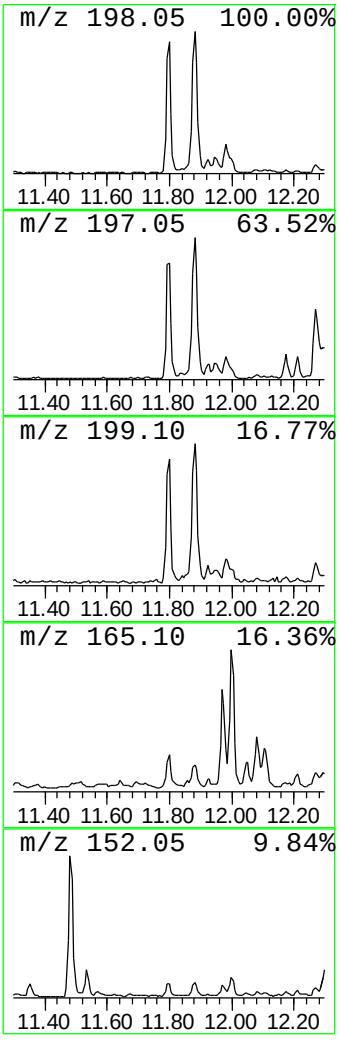
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Dibenzothiophene, 4-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	3.37 ng/ul	363650	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	93
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80
4	4,6,8-Trimethyl-1-azulenecarbald...	198	C14H14O	000832-62-2	72
5	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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

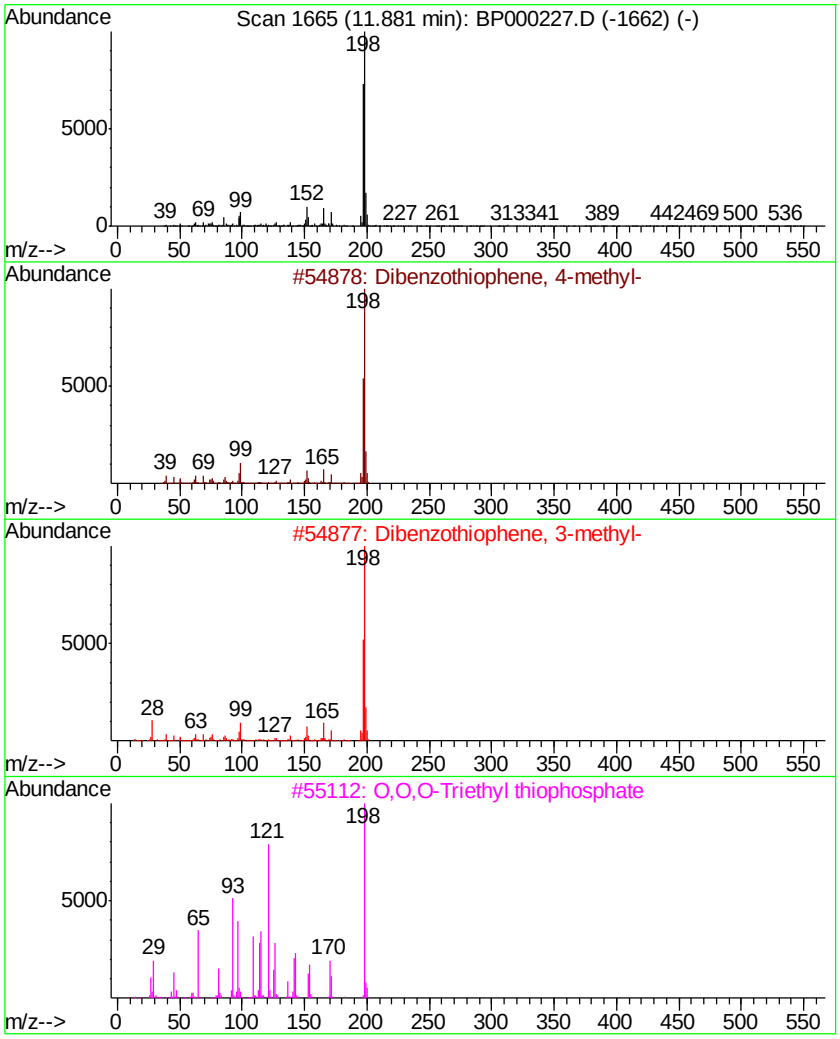
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

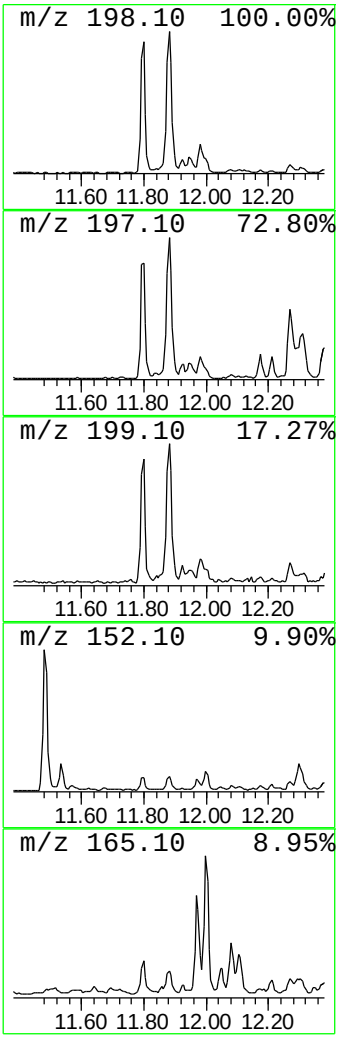
****

Peak Number 4 Dibenzothiophene, 3-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	3.41 ng/ul	368459	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
3	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	86
4	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	80
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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

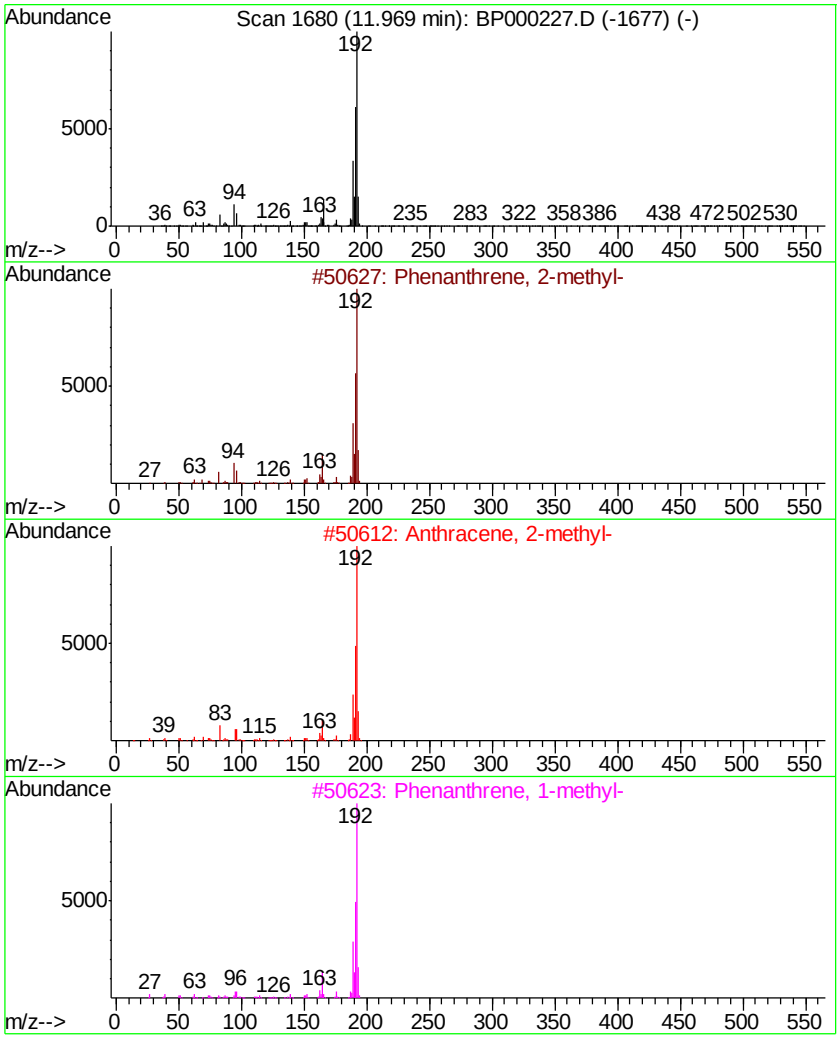
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

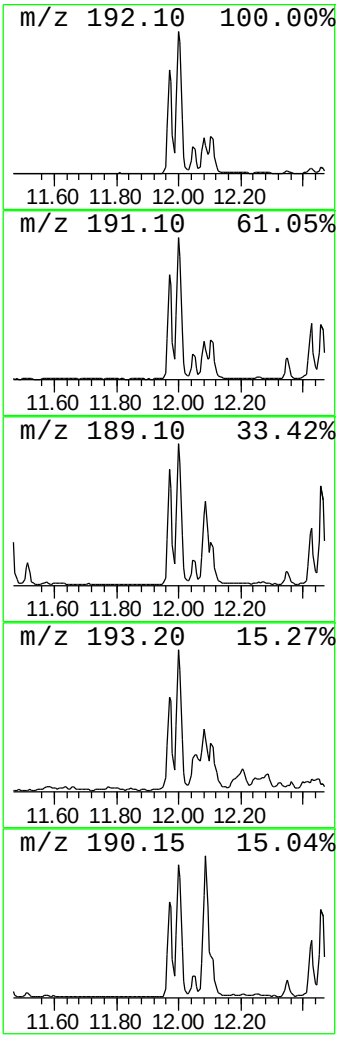
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	9.68 ng/ul	1045110	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Sample : K4633-12 10X
Misc :
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Instrument : BNA_P
ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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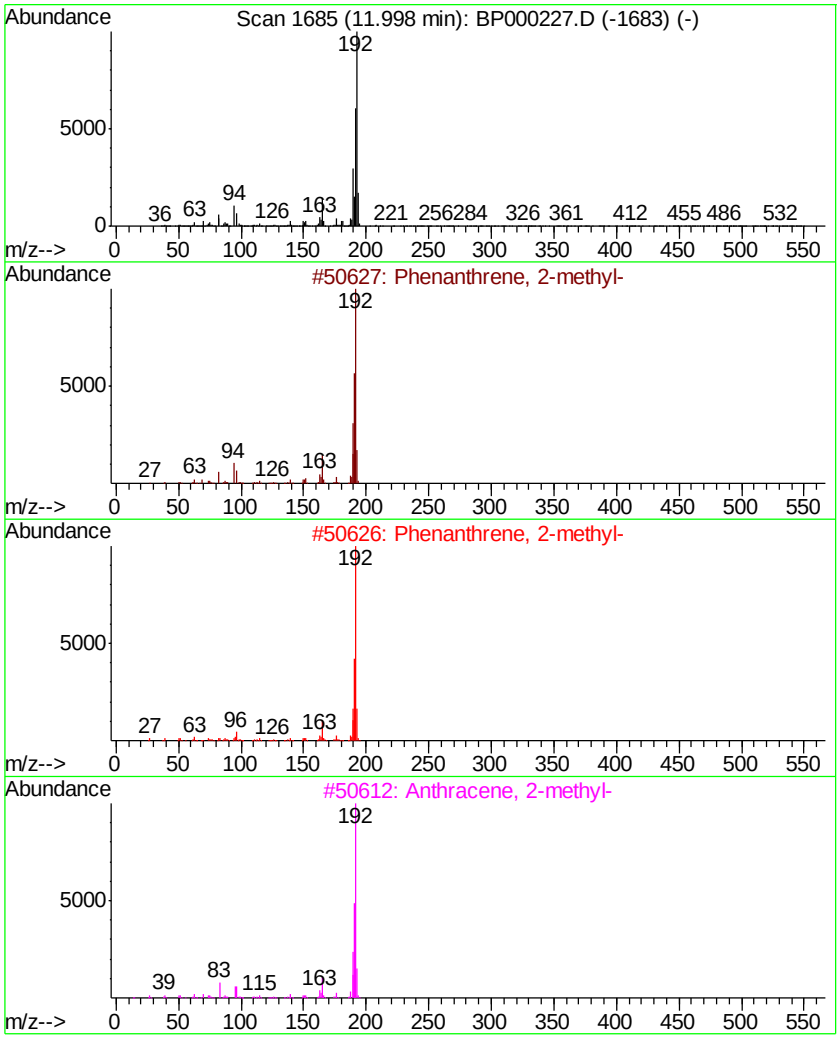
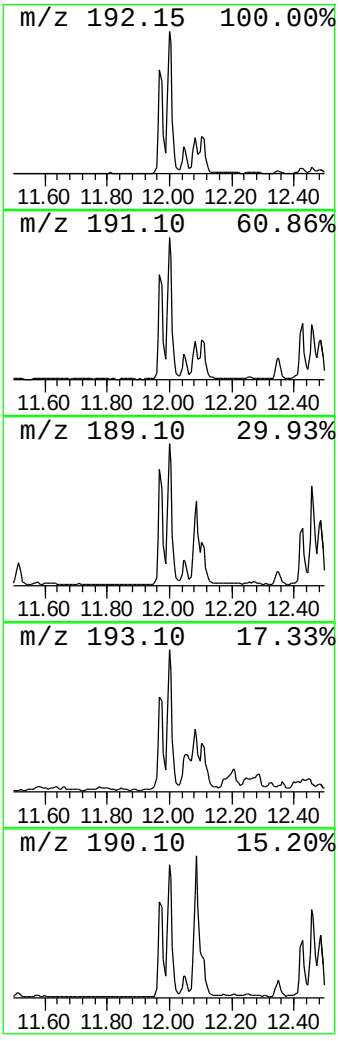
Peak Number 6 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	13.41 ng/ul	1448190	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Misc :
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ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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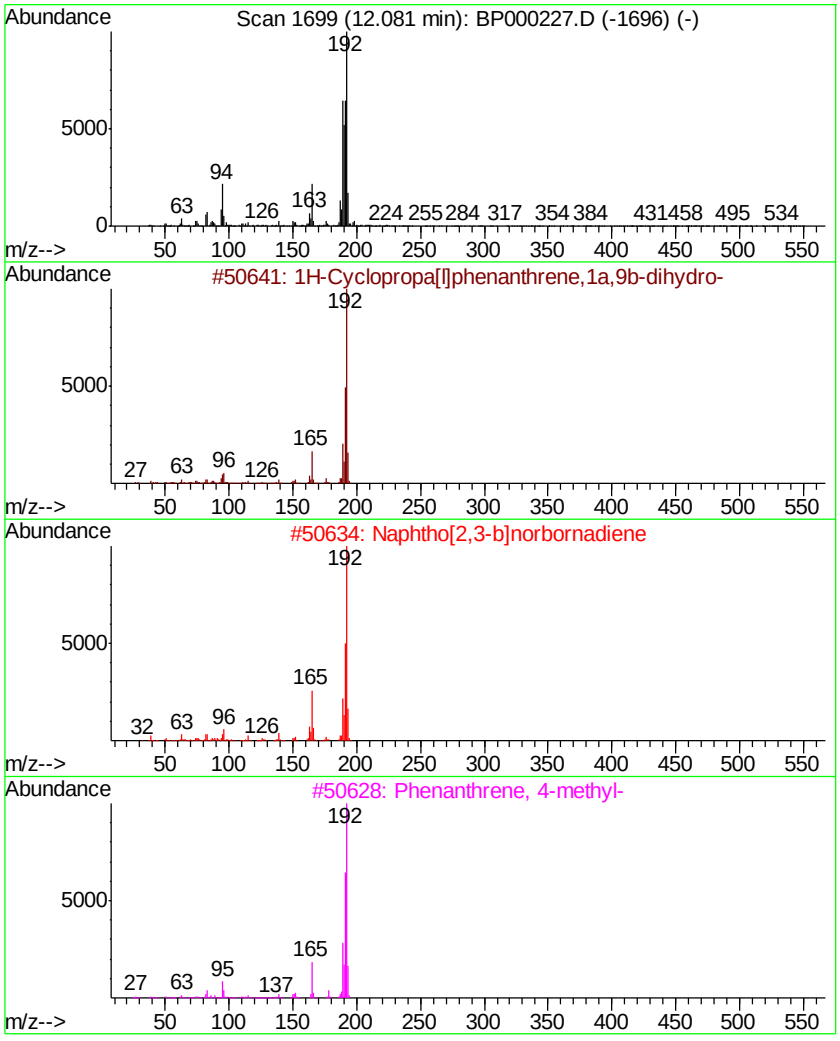
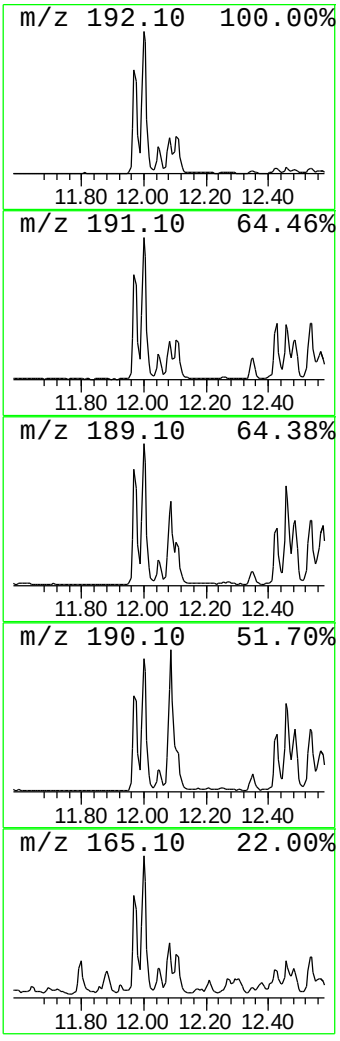
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	4.75 ng/ul	512921	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
2	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	78
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	70
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	60
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	60





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Misc :
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ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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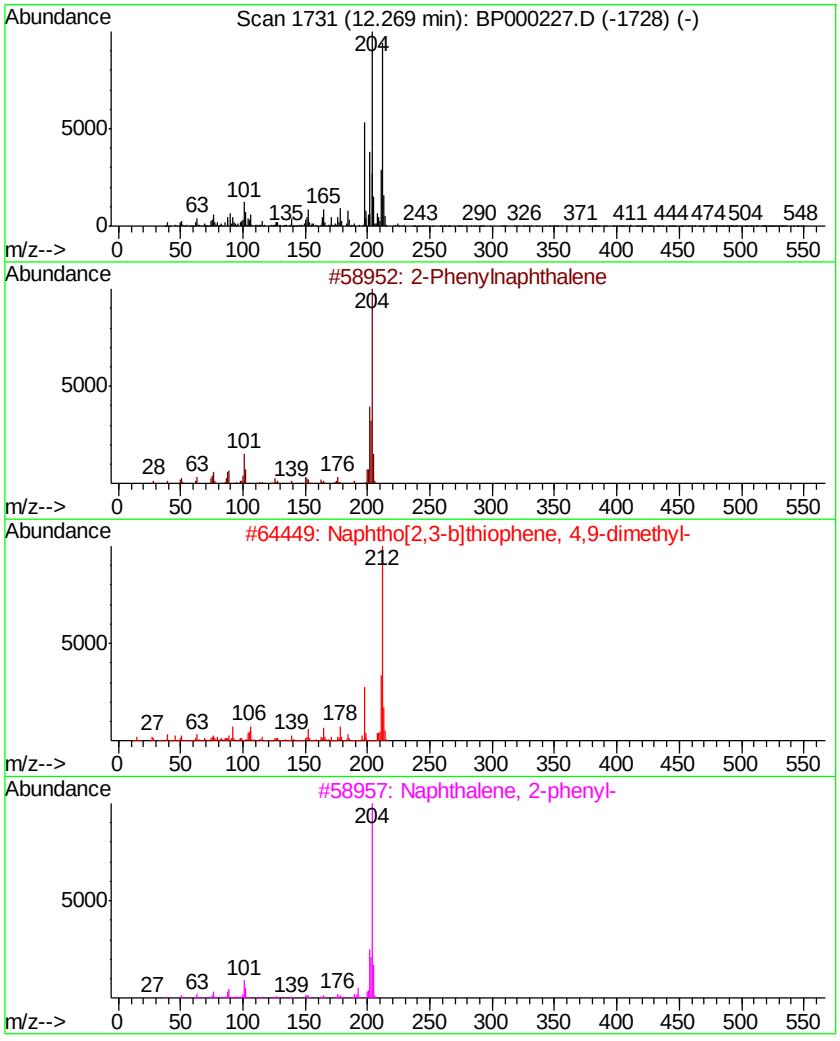
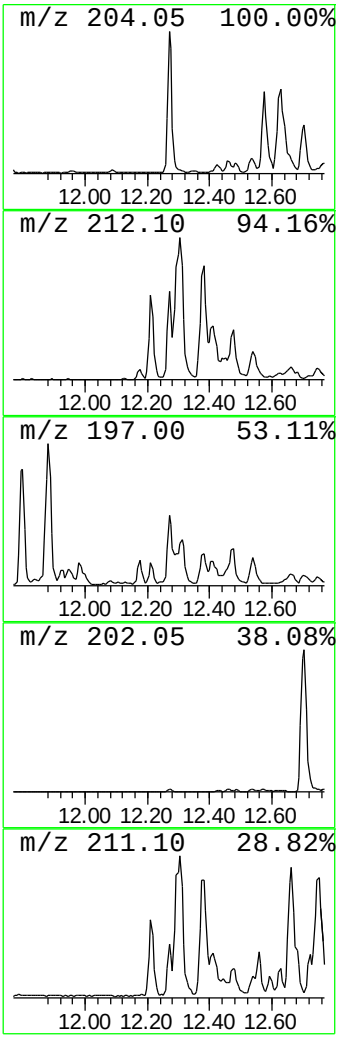
Peak Number 10 2-Phenylnaphthalene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	3.41 ng/ul	368089	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	78
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	43
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35





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Sample : K4633-12 10X
Misc :
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Instrument : BNA_P
ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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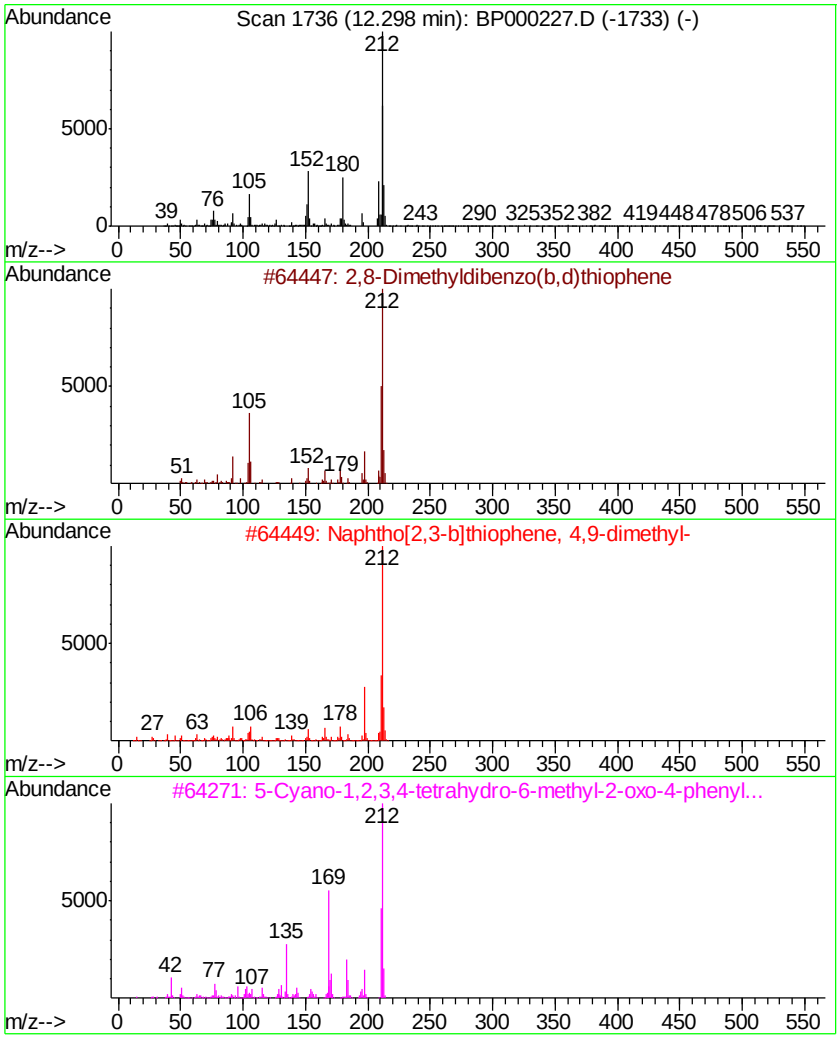
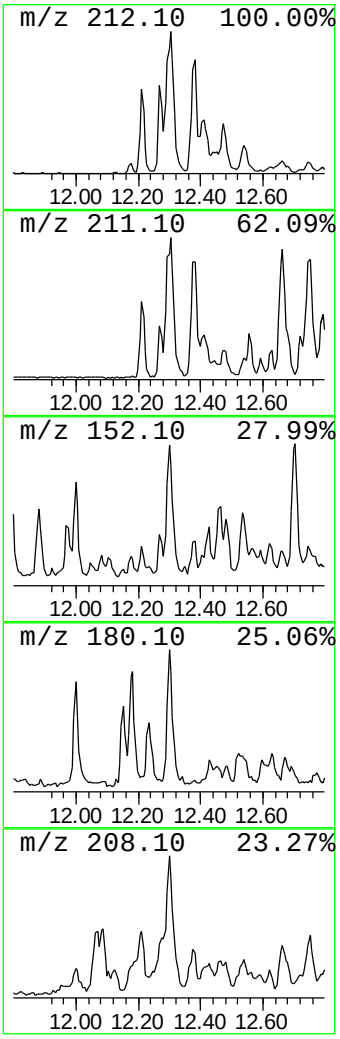
Peak Number 11 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	5.89 ng/ul	636313	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	90
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	64
3	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	59
4	Benzo[c]2,7-naphthiridine-4,5(3H...	212	C12H8N2O2	174565-23-2	50
5	Pyridine, 2-(2-nitro-2-phenyleth...	258	C13H10N2O2S	1000272-50-3	47





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Misc :
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Instrument : BNA_P
ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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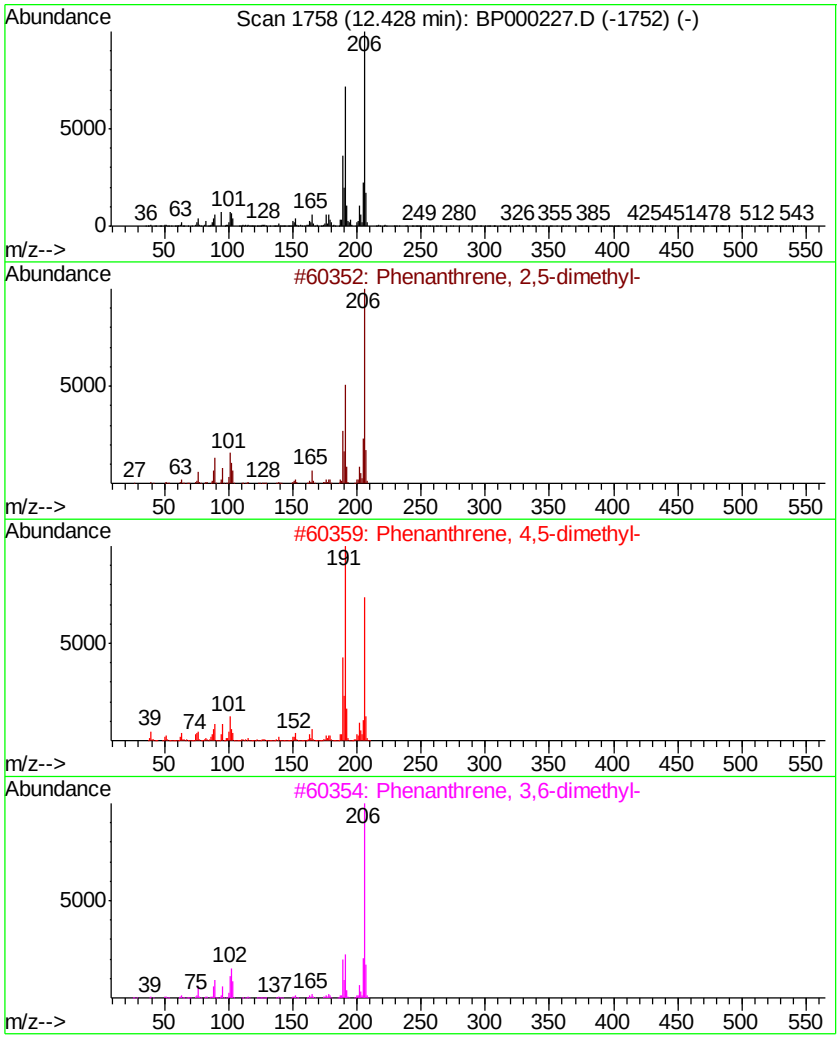
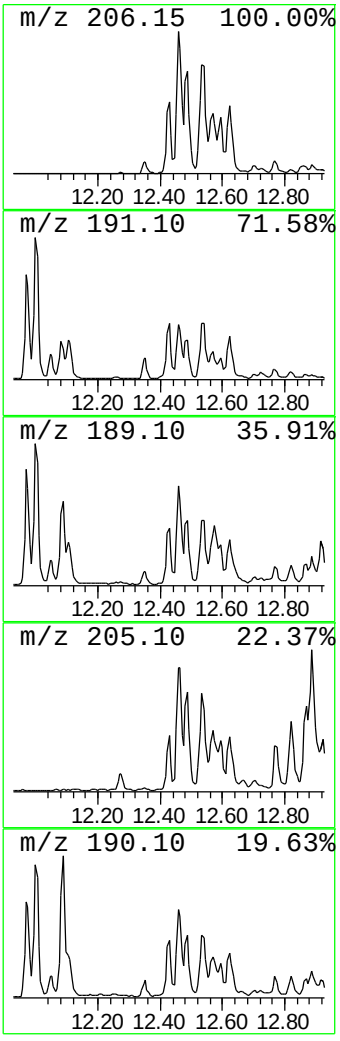
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	6.02 ng/ul	650693	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91





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Sample : K4633-12 10X
Misc :
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Instrument : BNA_P
ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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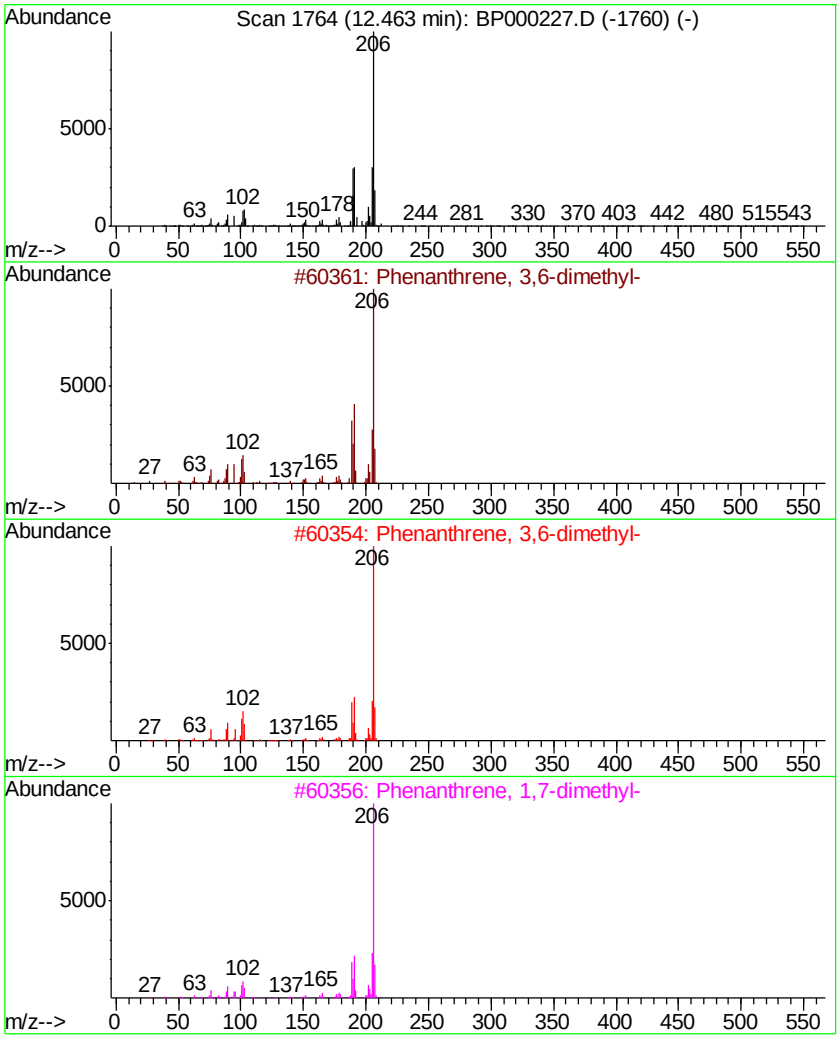
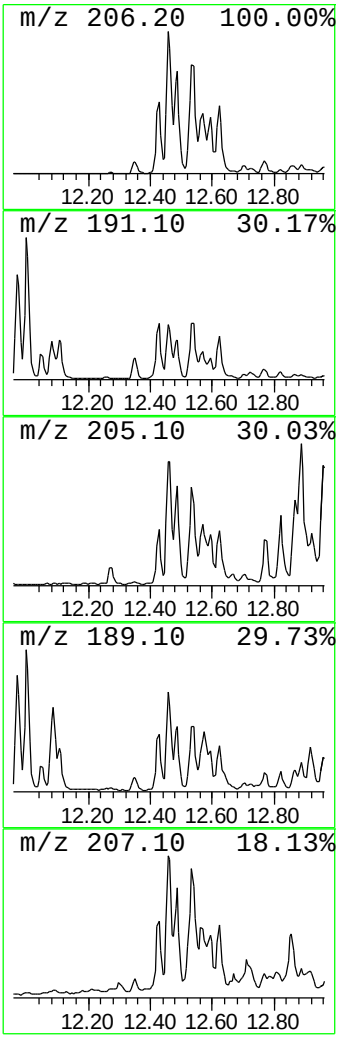
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	8.70 ng/ul	939358	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	98
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91





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Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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Quant Title : SVOA CALIBRATION

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

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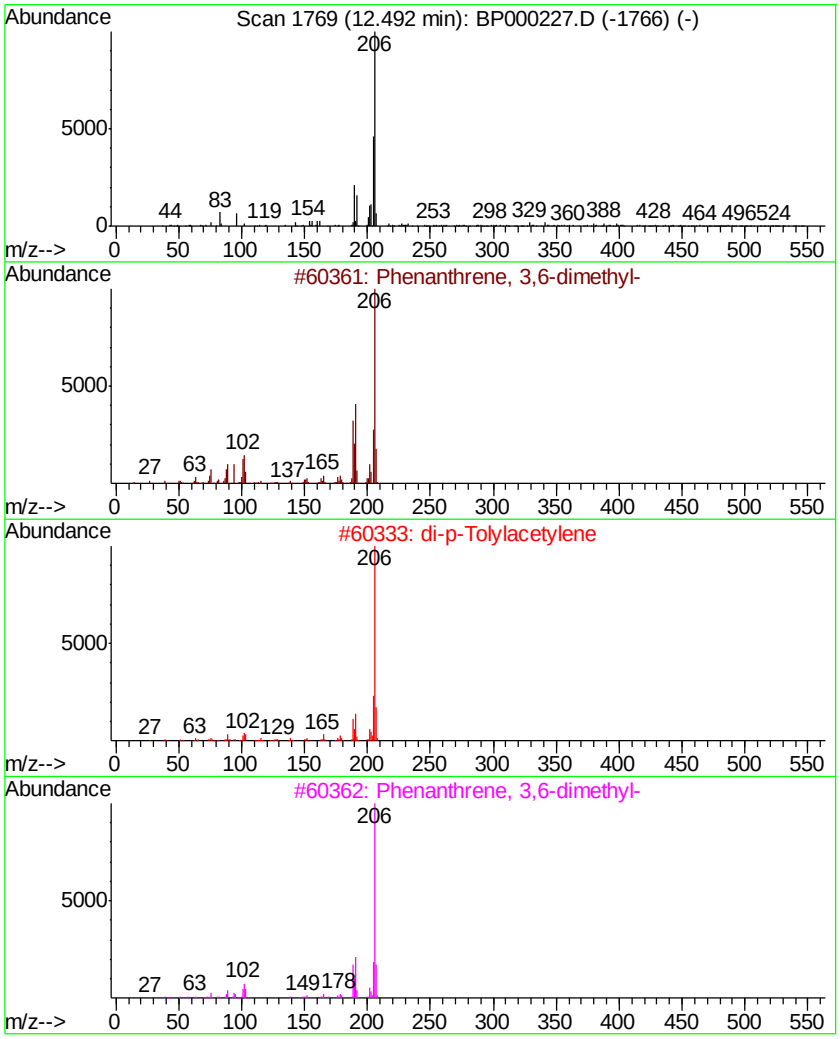
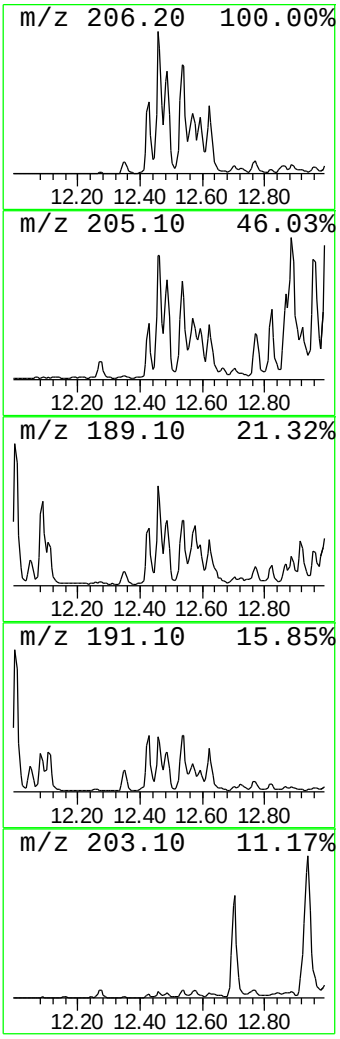
Peak Number 14 di-p-Tolylacetylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	6.26 ng/ul	675567	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	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93





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Misc :
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Instrument : BNA_P
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Quant Title : SVOA CALIBRATION

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

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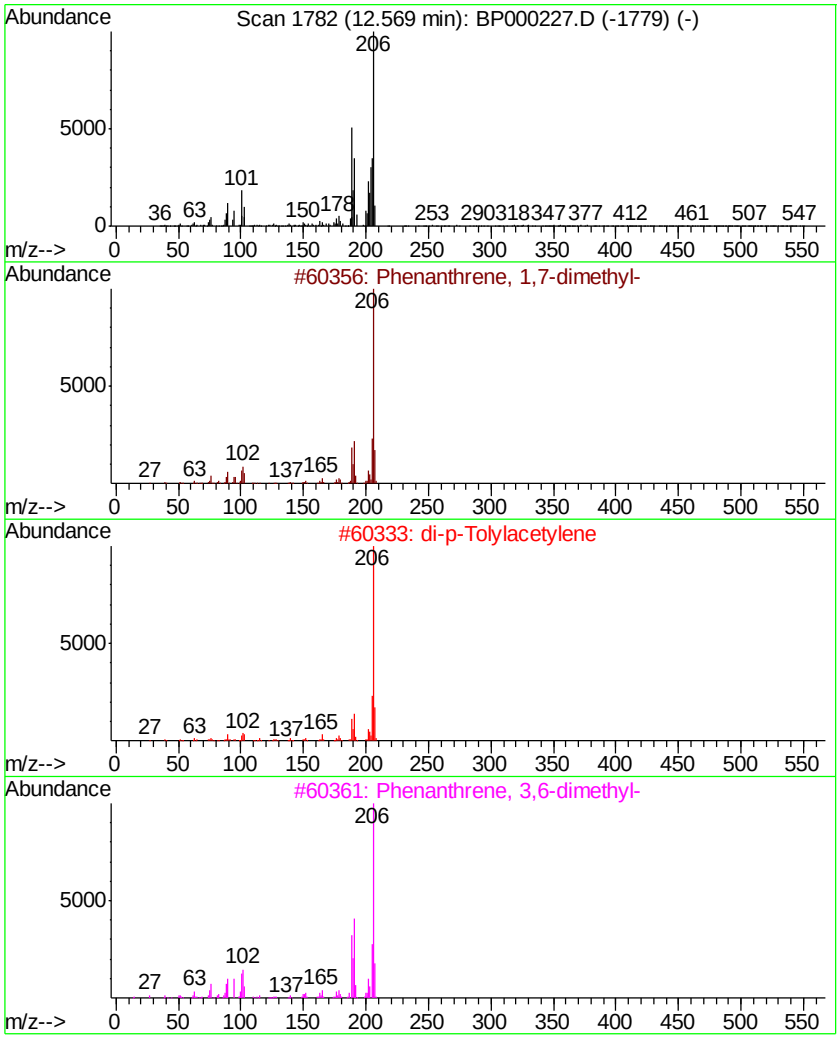
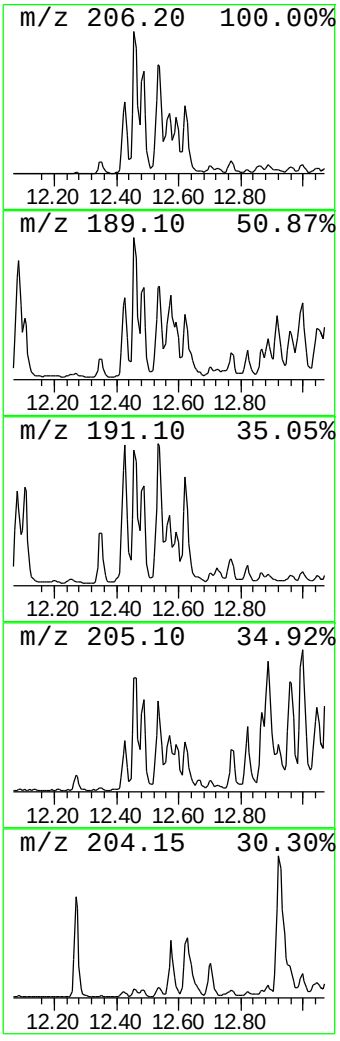
Peak Number 16 Phenanthrene, 1,7-dimethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	3.08 ng/ul	332943	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	64
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	58
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	58
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	50
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	49





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Quant Title : SVOA CALIBRATION

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

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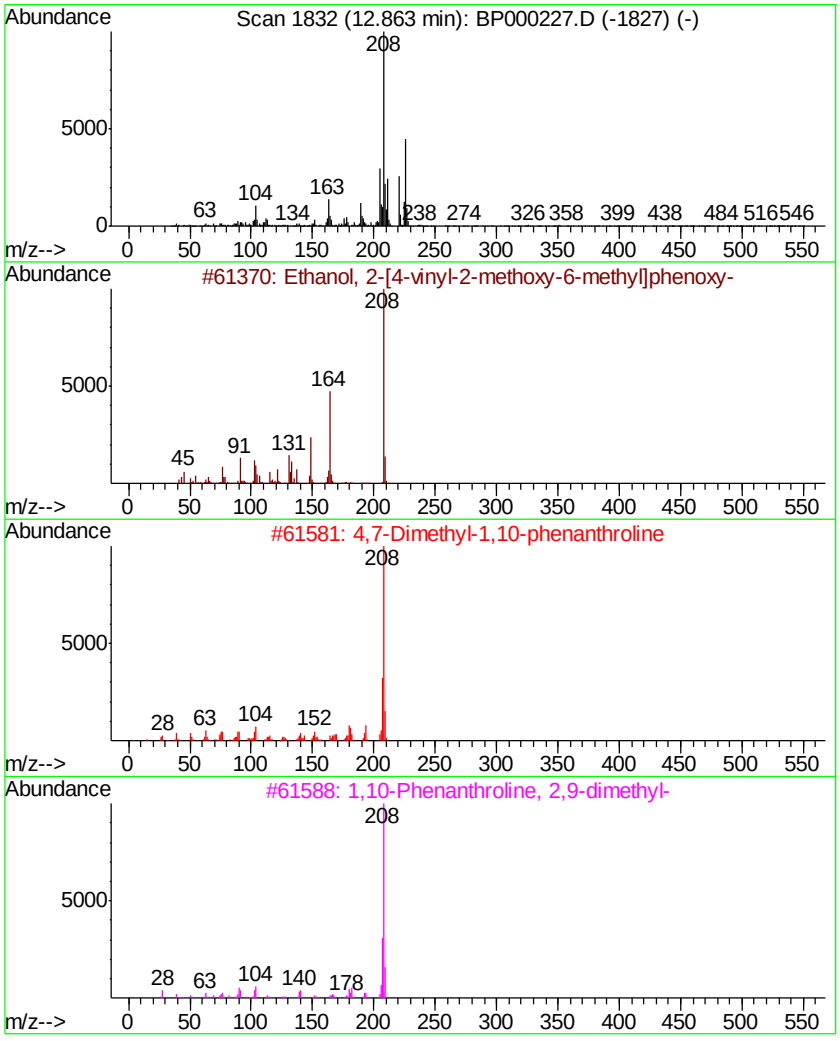
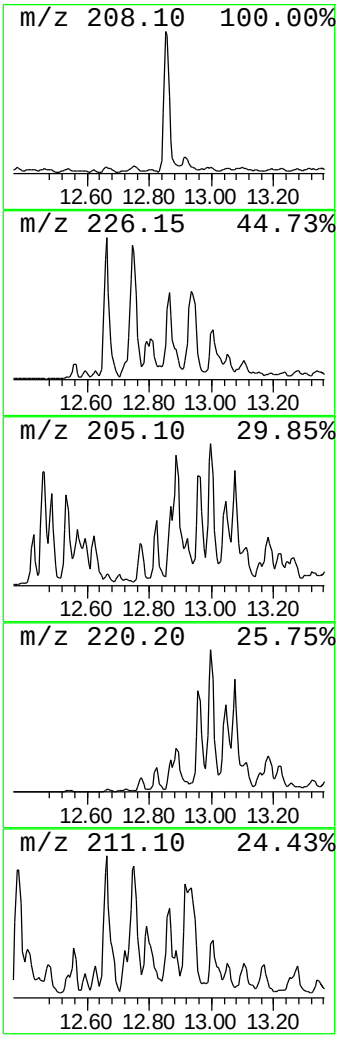
Peak Number 18 Ethanol, 2-[4-vinyl-2-metho... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	2.26 ng/ul	705327	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-[4-vinyl-2-methoxy-6-...	208	C12H16O3	1000132-26-4	59
2	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	53
3	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	52
4	Indole, 5-methyl-2-(4-pyridyl)-	208	C14H12N2	107919-92-6	47
5	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	47





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Quant Title : SVOA CALIBRATION

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

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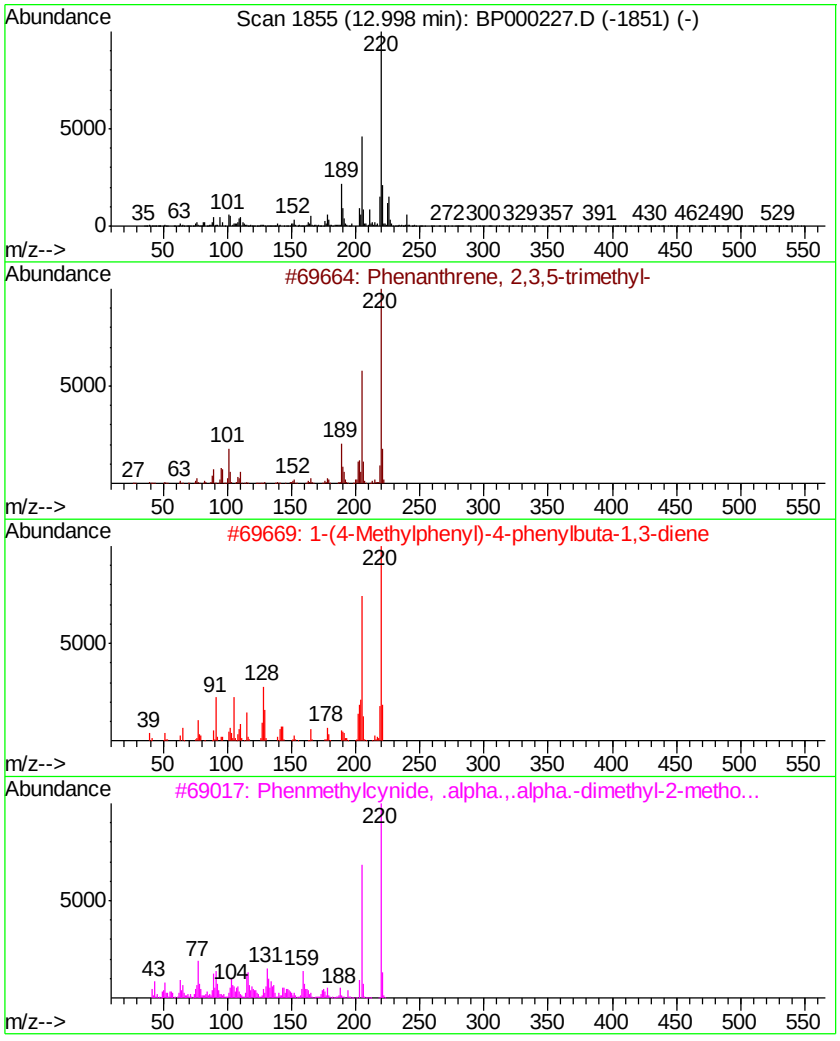
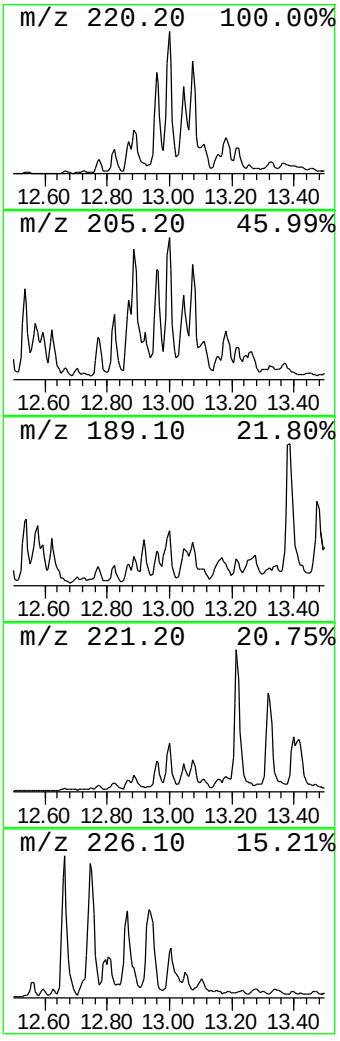
Peak Number 19 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.92 ng/ul	913713	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	90
2	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	64
3	Phenmethylcynide, .alpha.,.alpha....	220	C11H12N2O3	1000128-94-6	53
4	1-(Hydroxy-phenyl-methyl)-2-meth...	408	C27H36O3	108546-86-7	53
5	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	52





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Quant Title : SVOA CALIBRATION

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

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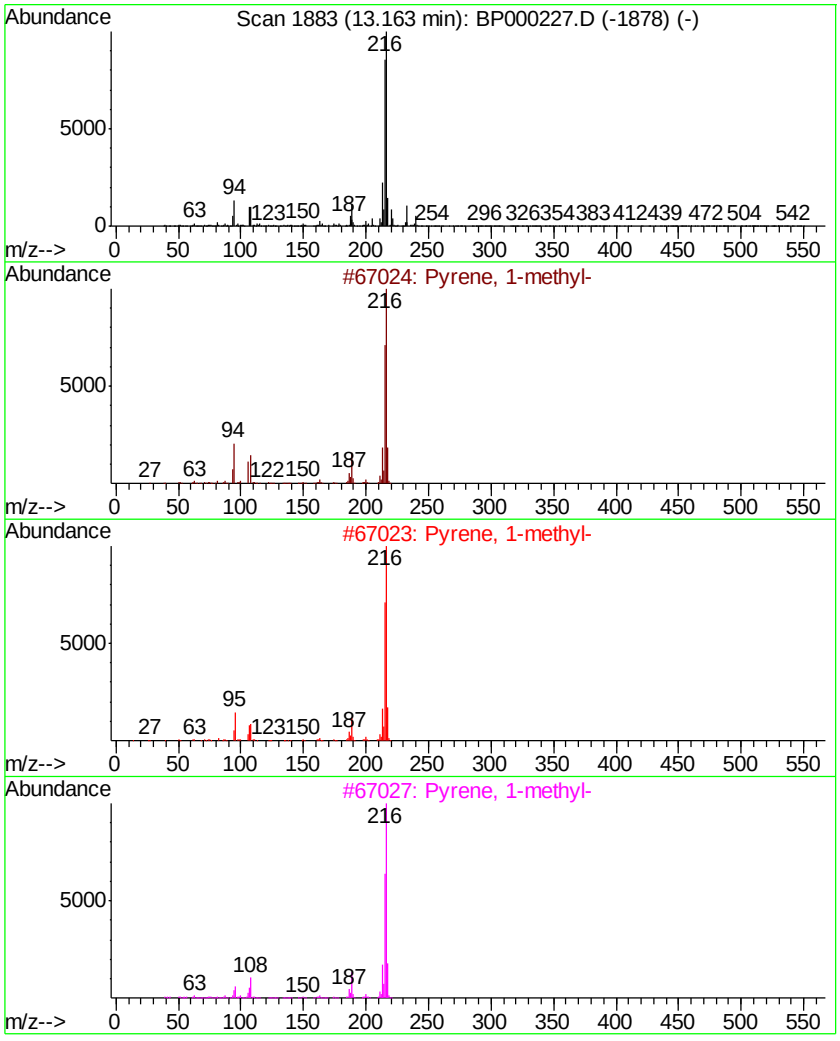
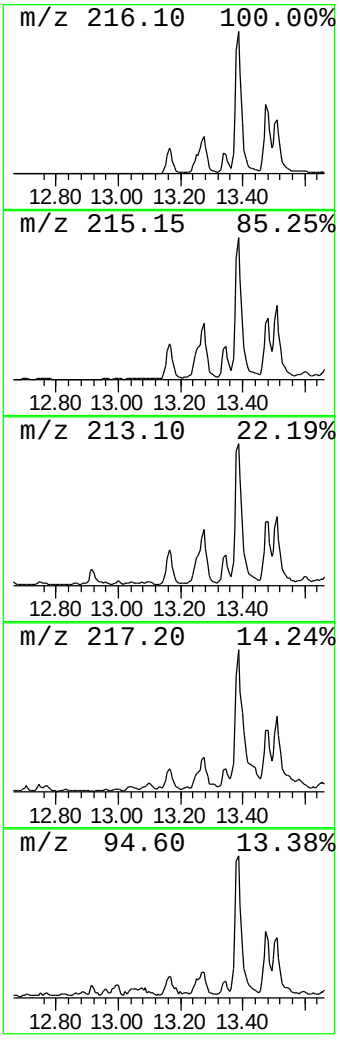
Peak Number 20 Pyrene, 1-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	3.73 ng/ul	1164940	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90





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Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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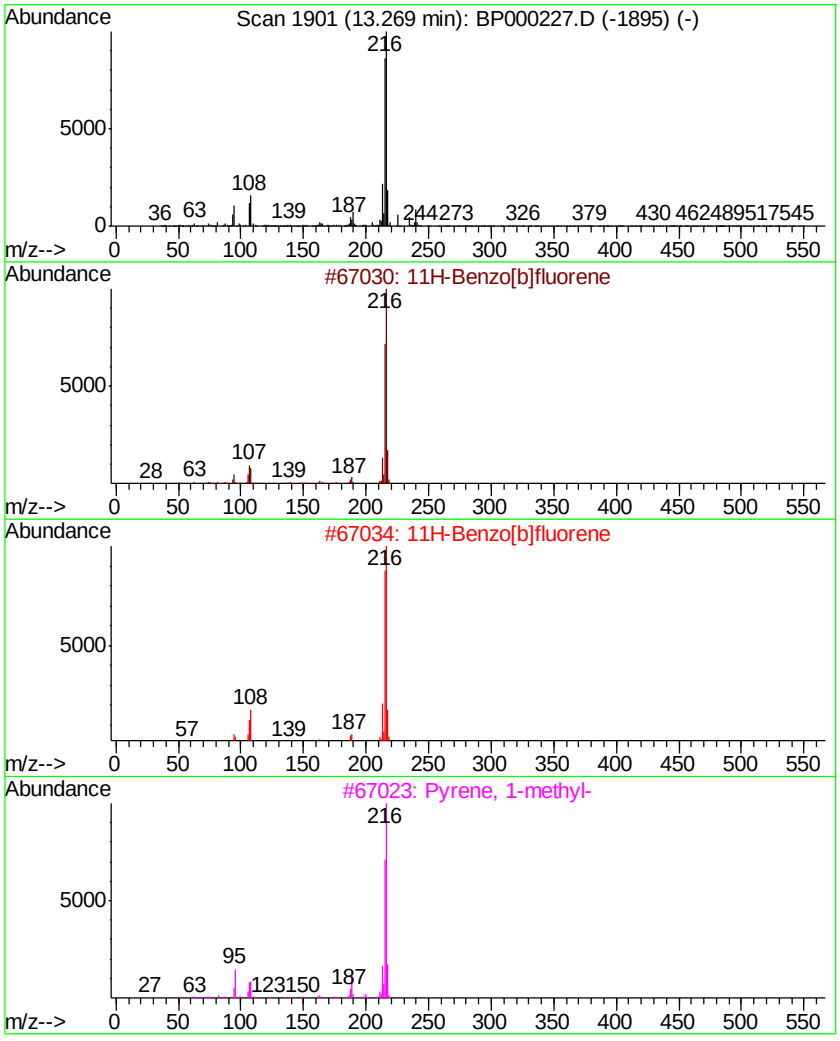
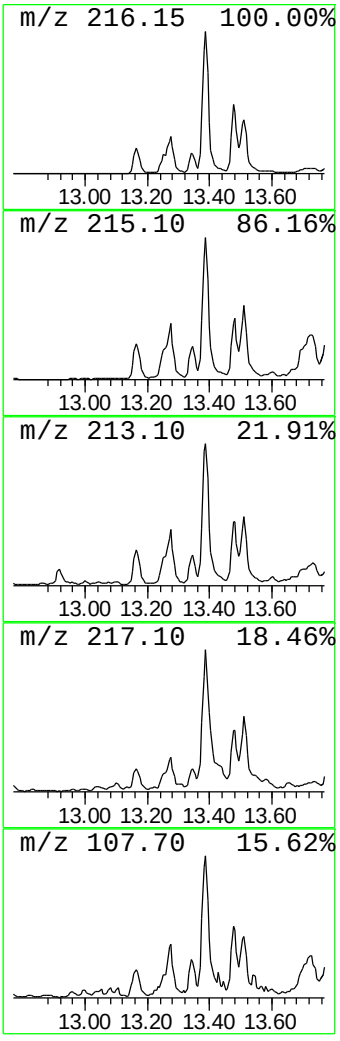
Peak Number 21 11H-Benzo[b]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	4.46 ng/ul	1394850	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81





Library Search Compound Report

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Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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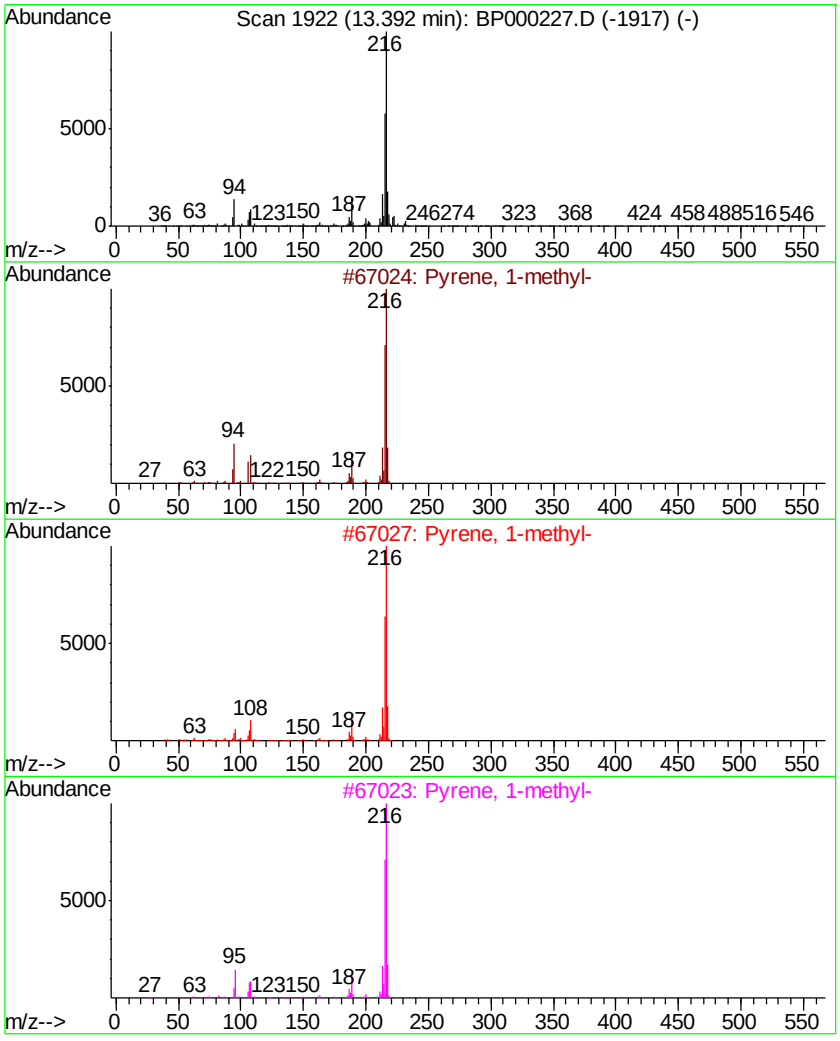
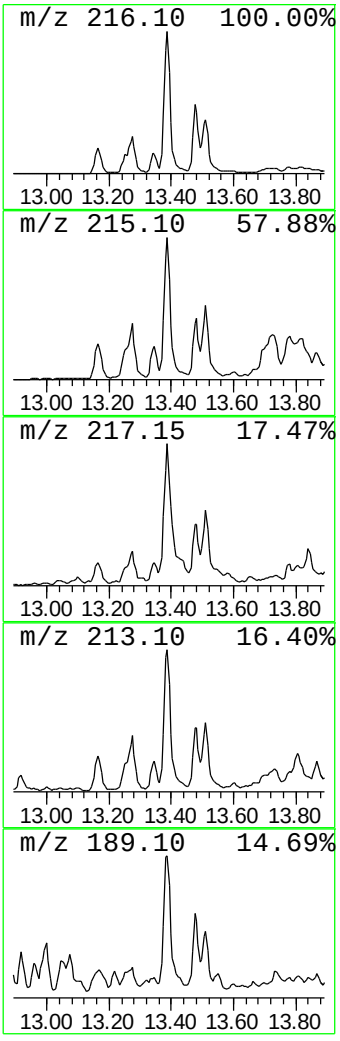
Peak Number 22 Pyrene, 4-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.39	14.61 ng/ul	4566980	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95





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Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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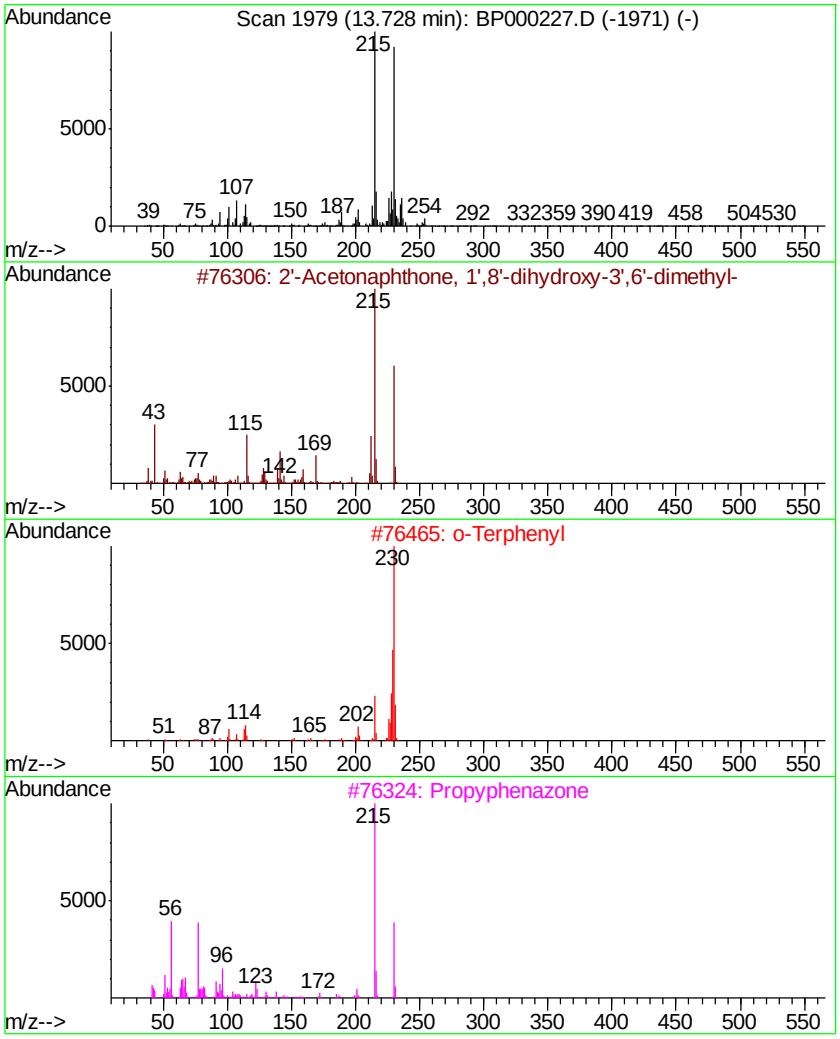
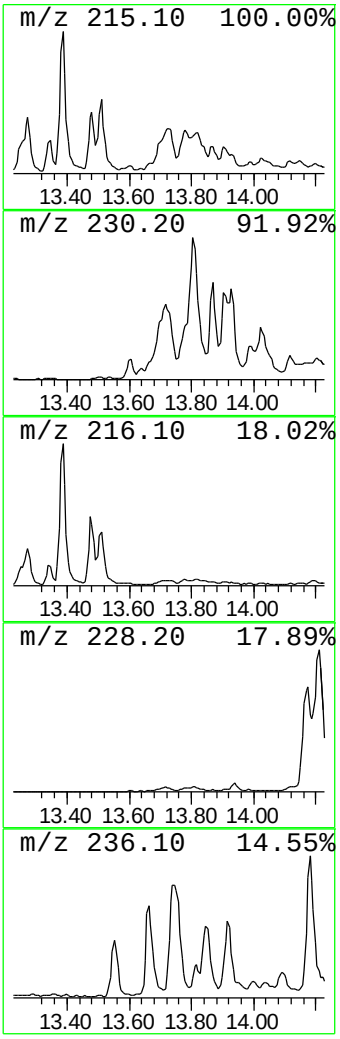
Peak Number 25 2'-Acetonaphthone, 1',8'-di... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	6.02 ng/ul	1880800	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2'-Acetonaphthone, 1',8'-dihydro...	230	C14H14O3	000838-03-9	50
2	o-Terphenyl	230	C18H14	000084-15-1	50
3	Propyphenazone	230	C14H18N2O	000479-92-5	50
4	Propyphenazone	230	C14H18N2O	000479-92-5	50
5	9-Chloro-9-methyl-9-silafluorene	230	C13H11ClSi	018090-00-1	50





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Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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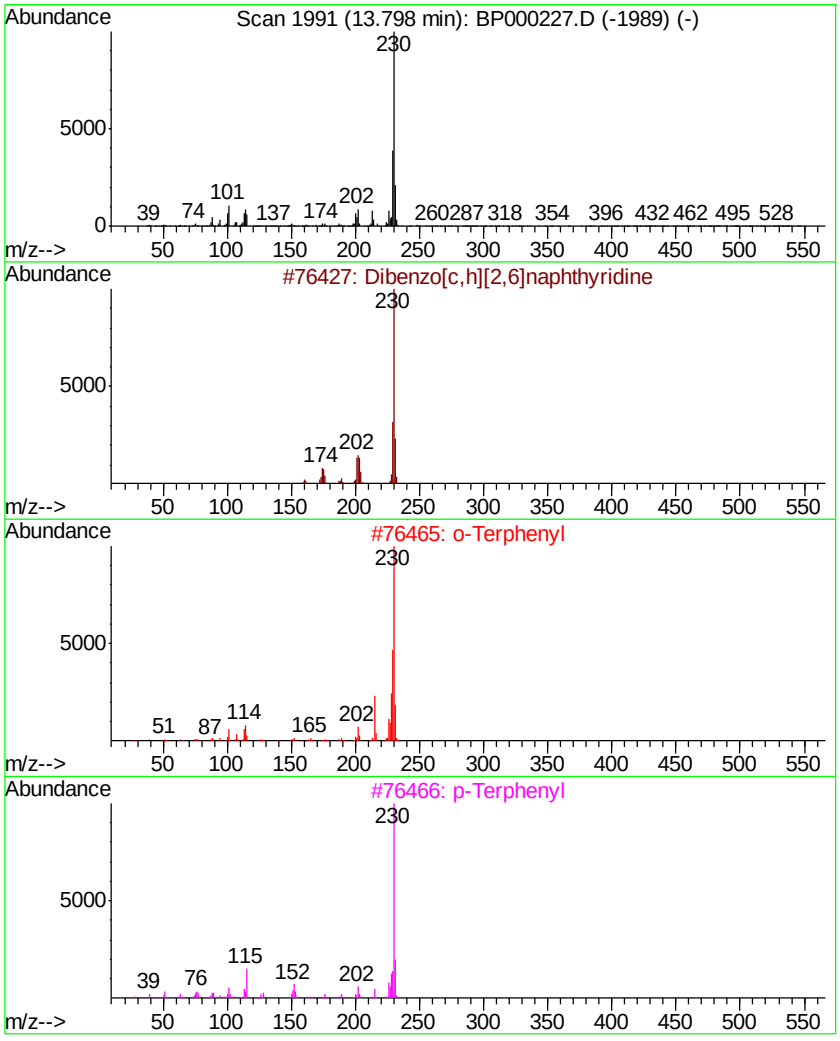
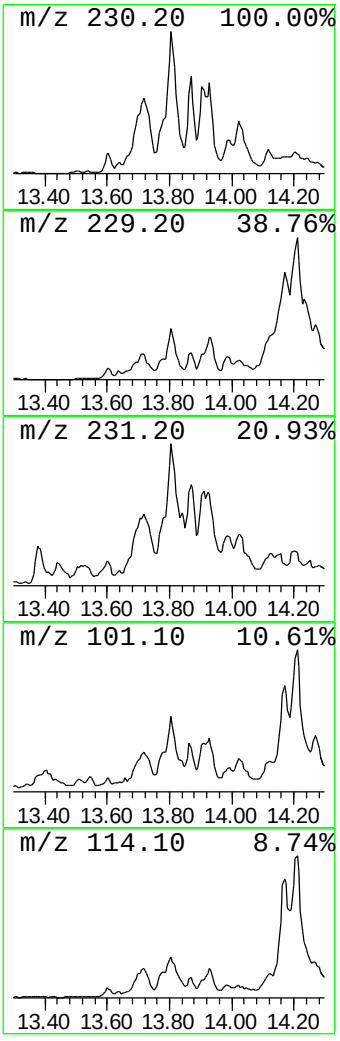
Peak Number 27 Dibenzo[c,h][2,6]naphthyridine Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	6.65 ng/ul	2080210	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	91
2	o-Terphenyl	230	C18H14	000084-15-1	90
3	p-Terphenyl	230	C18H14	000092-94-4	80
4	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	72
5	Benzo(a)phenazine	230	C16H10N2	000225-61-6	72





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Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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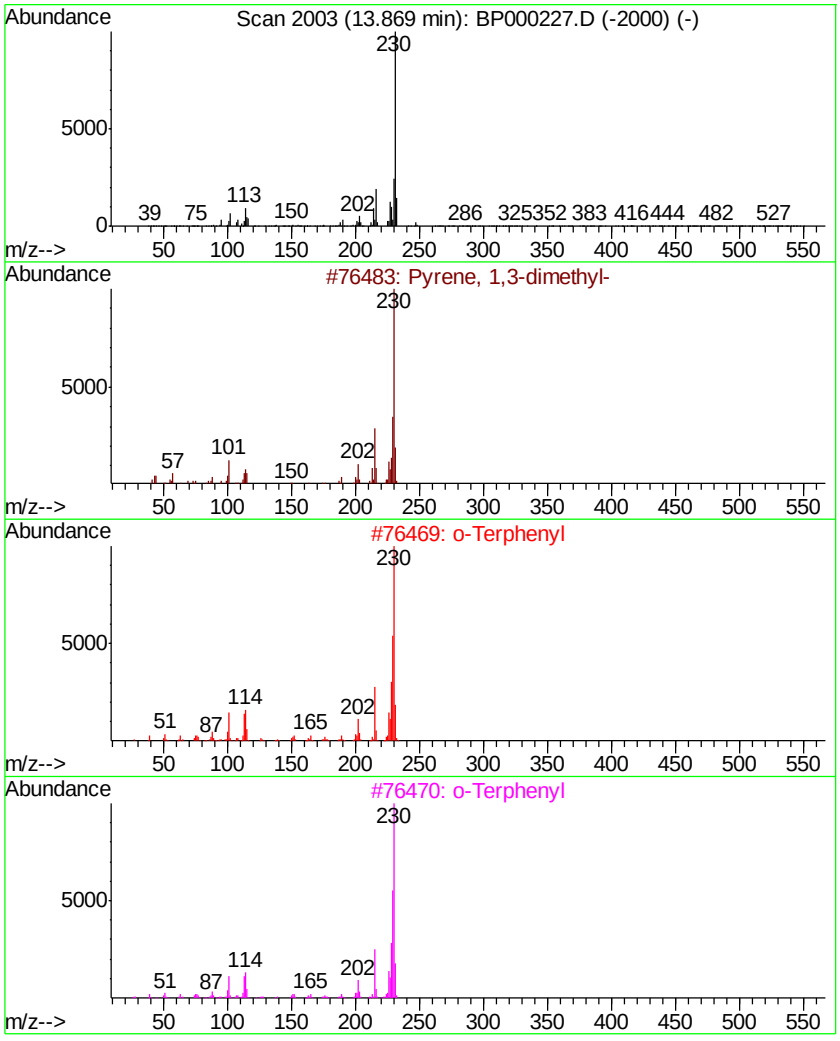
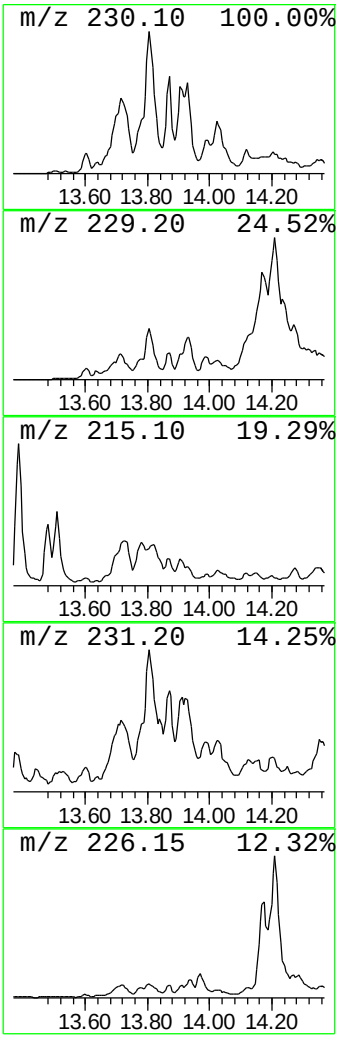
Peak Number 28 Pyrene, 1,3-dimethyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	2.51 ng/ul	785610	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	87
2	o-Terphenyl	230	C18H14	000084-15-1	68
3	o-Terphenyl	230	C18H14	000084-15-1	64
4	o-Terphenyl	230	C18H14	000084-15-1	64
5	2,2'-Bi-1H-indene	230	C18H14	000787-61-1	58





Library Search Compound Report

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Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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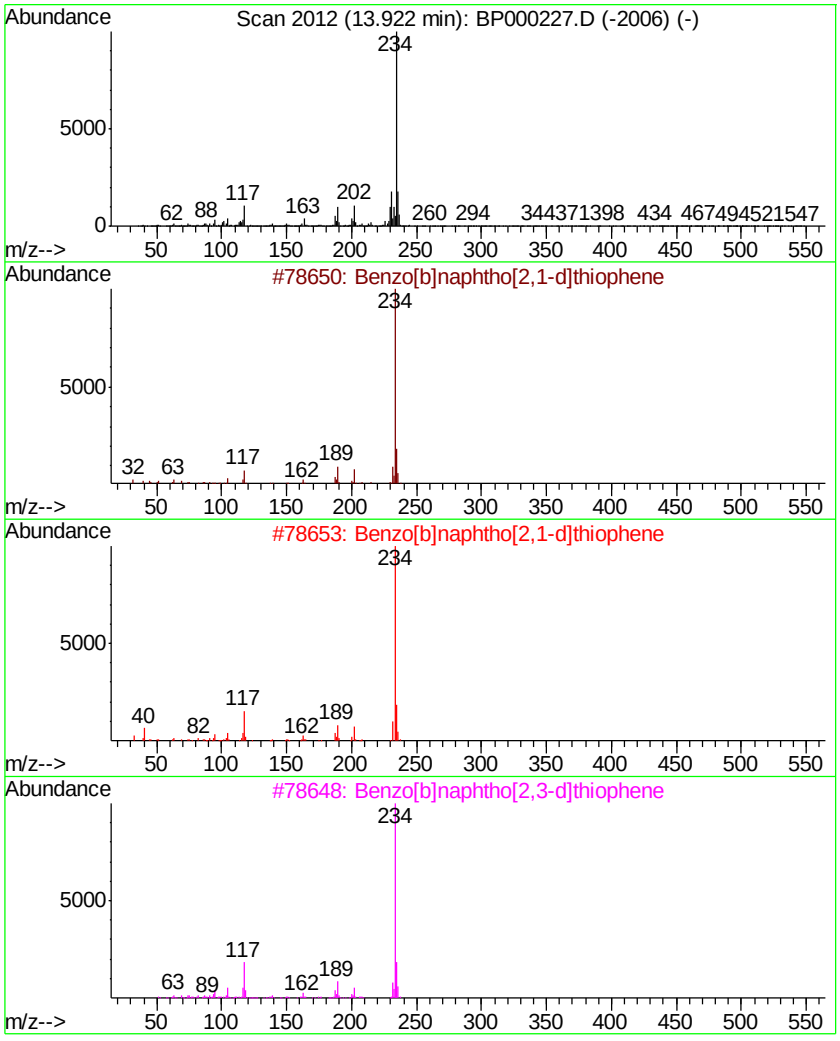
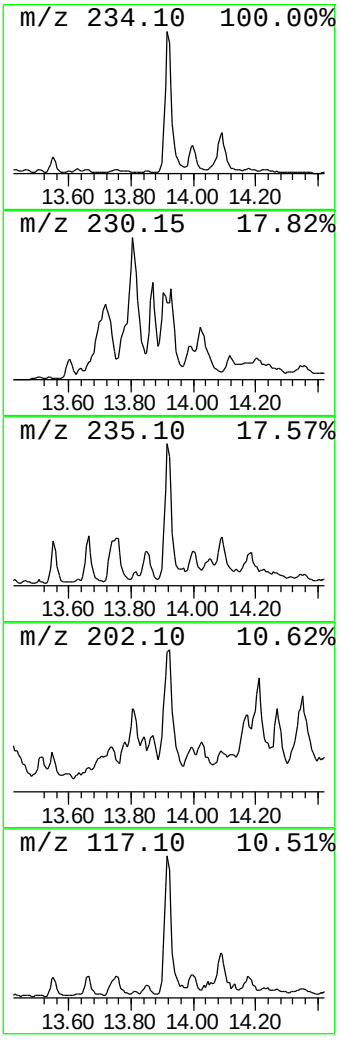
Peak Number 29 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	14.02 ng/ul	4383530	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93





Library Search Compound Report

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Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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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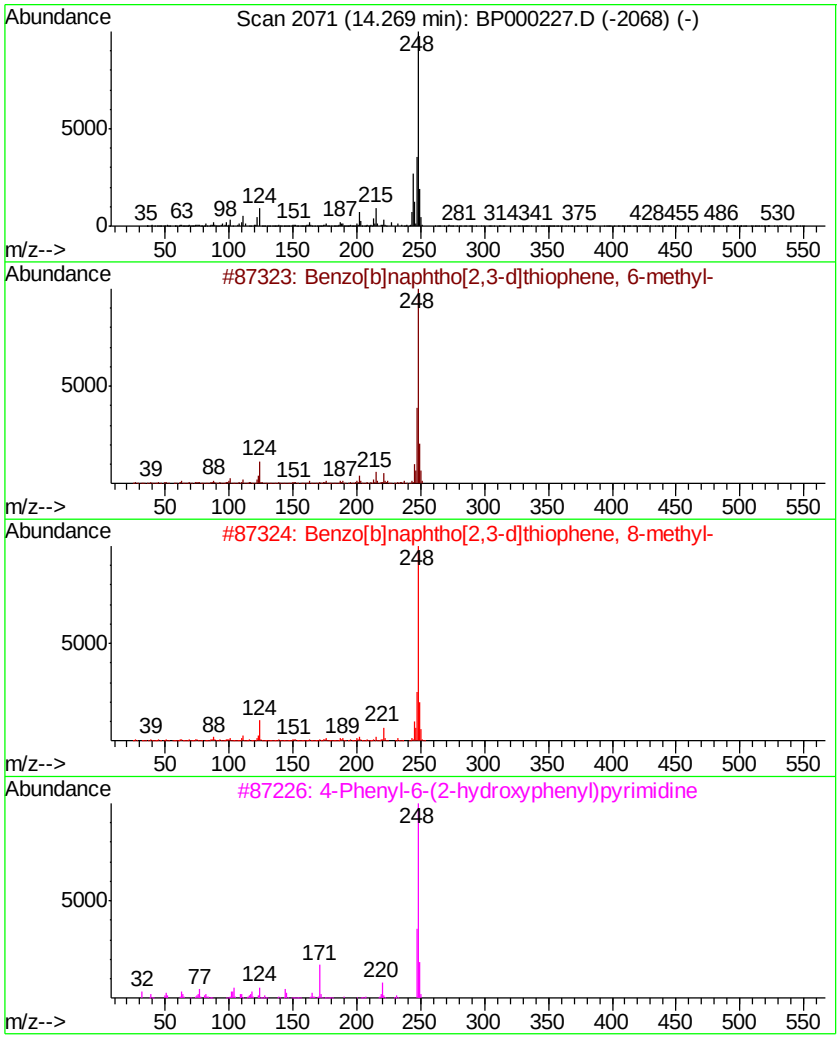
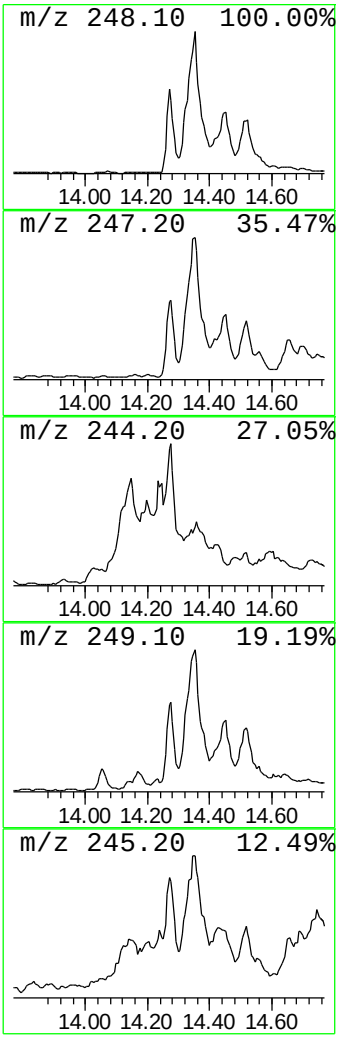
Peak Number 30 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.27	6.55 ng/ul	2046990	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024360-63-2	83
2	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024964-07-6	68
3	4-Phenyl-6-(2-hydroxyphenyl)pyri...	248	C16H12N2O	037473-11-3	53
4	Podocarp-12-en-14-ol #	248	C17H28O	1000148-20-3	47
5	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024964-09-8	45





Tentatively Identified Compound (LSC) summary

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Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D11

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	16.6	ng/ul	1171850	1	6.90	1411890	20.0
Dibenzothiophene	11.35	2.2	ng/ul	236325	4	11.46	2160090	20.0
Dibenzothiophene,...	11.80	3.4	ng/ul	363650	4	11.46	2160090	20.0
Dibenzothiophene,...	11.88	3.4	ng/ul	368459	4	11.46	2160090	20.0
Phenanthrene, 2-m...	11.97	9.7	ng/ul	1045110	4	11.46	2160090	20.0
Anthracene, 2-met...	12.00	13.4	ng/ul	1448190	4	11.46	2160090	20.0
1H-Cyclopropa[l]p...	12.08	4.8	ng/ul	512921	4	11.46	2160090	20.0
2-Phenylnaphthalene	12.27	3.4	ng/ul	368089	4	11.46	2160090	20.0
2,8-Dimethyldiben...	12.30	5.9	ng/ul	636313	4	11.46	2160090	20.0
Phenanthrene, 2,5...	12.43	6.0	ng/ul	650693	4	11.46	2160090	20.0
Phenanthrene, 3,6...	12.46	8.7	ng/ul	939358	4	11.46	2160090	20.0
di-p-Tolylacetylene	12.49	6.3	ng/ul	675567	4	11.46	2160090	20.0
Phenanthrene, 1,7...	12.57	3.1	ng/ul	332943	4	11.46	2160090	20.0
Ethanol, 2-[4-vin...	12.86	2.3	ng/ul	705327	5	14.18	6251970	20.0
Phenanthrene, 2,3...	13.00	2.9	ng/ul	913713	5	14.18	6251970	20.0
Pyrene, 1-methyl-	13.16	3.7	ng/ul	1164940	5	14.18	6251970	20.0
11H-Benzo[b]fluorene	13.27	4.5	ng/ul	1394850	5	14.18	6251970	20.0
Pyrene, 4-methyl-	13.39	14.6	ng/ul	4566980	5	14.18	6251970	20.0
2'-Acetonaphthone...	13.73	6.0	ng/ul	1880800	5	14.18	6251970	20.0
Dibenzo[c,h][2,6]...	13.80	6.7	ng/ul	2080210	5	14.18	6251970	20.0
Pyrene, 1,3-dimet...	13.87	2.5	ng/ul	785610	5	14.18	6251970	20.0
Benzo[b]naphtho[2...	13.92	14.0	ng/ul	4383530	5	14.18	6251970	20.0
Benzo[b]naphtho[2...	14.27	6.5	ng/ul	2046990	5	14.18	6251970	20.0