LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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-BF071620.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	5.404	561	564	580	rBV	442485	470002	16.22%	0.908%
2	6.428	735	738	753	rBV	489928	481302	16.61%	0.930%
3	6.792	797	800	808	rBV	870941	750436	25.90%	1.451%
4	7.351	892	895	901	rBV	351743	306706	10.58%	0.593%
5	8.081	1013	1019	1021	rBV	1048772	1066408	36.80%	2.061%
6	8.098	1021	1022	1028	rVV	593093	403914	13.94%	0.781%
7	8.792	1136	1140	1146	rVB	737539	584939	20.19%	1.131%
8	8.892	1152	1157	1161	rBV	534460	501690	17.31%	0.970%
9	9.151	1198	1201	1206	rVB	781203	631732	21.80%	1.221%
10	9.351	1233	1235	1242	rVB	107915	120409	4.16%	0.233%
11	9.422	1242	1247	1251	rBV	411174	537321	18.54%	1.039%
12	9.492	1255	1259	1262	rVV	613427	618467	21.34%	1.195%
13	9.522	1262	1264	1266	rVV	401000	310964	10.73%	0.601%
14	9.551	1266	1269	1273	rVB2	129673	143535	4.95%	0.277%
15	9.610	1275	1279	1284	rBV	288297	298321	10.29%	0.577%
16	9.692	1290	1293	1298	rVB	511902	442275	15.26%	0.855%
17	9.833	1311	1317	1320	rVV	1278546	1164044	40.17%	2.250%
18	9.869	1320	1323	1326	rVV	459492	434584	15.00%	0.840%
19	9.939	1332	1335	1339	rBV2	118950	141122	4.87%	0.273%
20	10.039	1348	1352	1356	rVV	719458	634407	21.89%	1.226%
21	10.075	1356	1358	1362	rVB	187028	158956	5.49%	0.307%
22	10.151	1367	1371	1374	rBV2	172316	189261	6.53%	0.366%
23	10.180	1374	1376	1379	rVV	153699	106183	3.66%	0.205%
24	10.239	1382	1386	1388	rBV	116079	154548	5.33%	0.299%
25	10.263	1388	1390	1392	rVB2	116000	92281	3.18%	0.178%
26	10.333	1397	1402	1404	rBV3	88588	105743	3.65%	0.204%
27	10.380	1407	1410	1416	rVB	1075616	1034440	35.70%	1.999%
28	10.469	1423	1425	1427	rVV2	99742	89366	3.08%	0.173%
29	10.539	1434	1437	1440	rVB	241876	211024	7.28%	0.408%
30	10.622	1445	1451	1455	rVV2	572426	645160	22.26%	1.247%
31	10.669	1455	1459	1463	rVB2	65427	86218	2.98%	0.167%
32	10.745	1468	1472	1479	rVB3	152417	242003	8.35%	0.468%
33	10.933	1498	1504	1506	rBV2	238552	293953	10.14%	0.568%
34	10.957	1506	1508	1511	rVV2	142128	126040	4.35%	0.244%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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-BF071620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.016	1515	1518	1521	rVV	112050	105484	3.64%	0.204%
36	11.057	1521	1525	1527	rVV3	96625	123291	4.25%	0.238%
37	11.080	1527	1529	1534	rVV	120236	139218	4.80%	0.269%
38	11.127	1534	1537	1541	rVV2	111755	109833	3.79%	0.212%
39	11.169	1541	1544	1546	rVV	107488	136437	4.71%	0.264%
40	11.186	1546	1547	1550	rVV	142070	119851	4.14%	0.232%
41	11.216	1550	1552	1558	rVB	384642	368759	12.73%	0.713%
42	11.321	1566	1570	1572	rBV	1034501	1033034	35.65%	1.997%
43	11.351	1572	1575	1578	rVV	3047405	2894614	99.89%	5.595%
44	11.398	1578	1583	1586	rVV	1136862	987661	34.08%	1.909%
45	11.433	1586	1589	1592	rVV2	126594	130355	4.50%	0.252%
46	11.551	1603	1609	1617	rBV	332938	423426	14.61%	0.818%
47	11.616	1617	1620	1622	rBV	204585	164176	5.67%	0.317%
48	11.716	1634	1637	1640	rBV	1336004	1047086	36.13%	2.024%
49	11.821	1652	1655	1658	rBV	486515	471285	16.26%	0.911%
50	11.851	1658	1660	1664	rVB	701467	581406	20.06%	1.124%
51	11.898	1665	1668	1671	rBV	267338	240464	8.30%	0.465%
52	11.939	1671	1675	1677	rVV	790020	875472	30.21%	1.692%
53	11.957	1677	1678	1683	rVB	349319	251341	8.67%	0.486%
54	12.027	1687	1690	1693	rVV2	138767	141691	4.89%	0.274%
55	12.121	1703	1706	1708	rVV	283794	268954	9.28%	0.520%
56	12.145	1708	1710	1713	rVB2	140066	126145	4.35%	0.244%
57	12.298	1733	1736	1739	rVV	176099	152477	5.26%	0.295%
58	12.374	1743	1749	1751	rBV	292772	334368	11.54%	0.646%
59	12.404	1751	1754	1756	rVV	1592913	1696444	58.54%	3.279%
60	12.427	1756	1758	1768	rVB	2313993	2301889	79.44%	4.449%
61	12.510	1768	1772	1774	rBV	611807	523885	18.08%	1.013%
62	12.539	1774	1777	1781	rVB	2711213	2625452	90.60%	5.075%
63	12.633	1790	1793	1795	rVB	158484	135082	4.66%	0.261%
64	12.686	1795	1802	1809	rBV3	141213	267870	9.24%	0.518%
65	12.768	1809	1816	1822	rBV2	2381885	2897788	100.00%	5.601%
66	12.816	1822	1824	1829	rVB2	141519	179905	6.21%	0.348%
67	12.886	1833	1836	1837	rBV	169376	154694	5.34%	0.299%
68	12.904	1837	1839	1842	rBV	505262	420525	14.51%	0.813%
69	12.986	1848	1853	1856	rBV2	230483	370315	12.78%	0.716%
70	13.068	1864	1867	1869	rVV3	244763	283185	9.77%	0.547%
71	13.092	1869	1871	1875	rVB	576684	529667	18.28%	1.024%

LSC Area Percent Report

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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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-BF071620.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.163	1877	1883	1885	rVV	532767	570001	19.67%	1.102%
73	13.198	1885	1889	1892	rVB2	326223	318831	11.00%	0.616%
74	13.292	1902	1905	1907	rVV	166281	160015	5.52%	0.309%
75	13.321	1907	1910	1912	rVV	205480	206646	7.13%	0.399%
76	13.345	1912	1914	1919	rVB2	203529	194510	6.71%	0.376%
77	13.480	1933	1937	1941	rBV4	129977	268041	9.25%	0.518%
78	13.574	1950	1953	1955	rBV	105049	112776	3.89%	0.218%
79	13.604	1955	1958	1962	rVV	170390	219218	7.57%	0.424%
80	13.710	1973	1976	1979	rVV3	235922	283724	9.79%	0.548%
81	13.739	1979	1981	1983	rVV	257980	228199	7.87%	0.441%
82	13.762	1983	1985	1987	rVV	194398	202365	6.98%	0.391%
83	13.810	1991	1993	1997	rVB	245629	225102	7.77%	0.435%
84	13.962	2012	2019	2022	rBV2	1764841	2749480	94.88%	5.314%
85	13.992	2022	2024	2031	rVB	1326567	1159269	40.01%	2.241%
86	14.068	2035	2037	2039	rBV	135748	96537	3.33%	0.187%
87	14.157	2050	2052	2054	rVB	120353	86688	2.99%	0.168%
88	14.351	2082	2085	2088	rVB	324062	290149	10.01%	0.561%
89	14.386	2088	2091	2094	rVB	151737	143285	4.94%	0.277%
90	14.445	2096	2101	2104	rVV2	171090	300468	10.37%	0.581%
91	14.474	2104	2106	2108	rVV	193951	169969	5.87%	0.329%
92	14.498	2108	2110	2113	rVB	178477	140337	4.84%	0.271%
93	14.733	2148	2150	2153	rBV3	118464	130108	4.49%	0.251%
94	15.004	2191	2196	2198	rBV	1029962	1555514	53.68%	3.007%
95	15.104	2210	2213	2217	rBV	293006	282102	9.74%	0.545%
96	15.298	2242	2246	2251	rVB	626084	794583	27.42%	1.536%
97	15.357	2252	2256	2262	rBV	928578	1197064	41.31%	2.314%
98	15.421	2262	2267	2270	rBV	828096	1130755	39.02%	2.186%
99	16.856	2505	2511	2519	rVB2	412027	786965	27.16%	1.521%
100	17.286	2579	2584	2593	rVB	260260	541514	18.69%	1.047%

Sum of corrected areas: 51735498

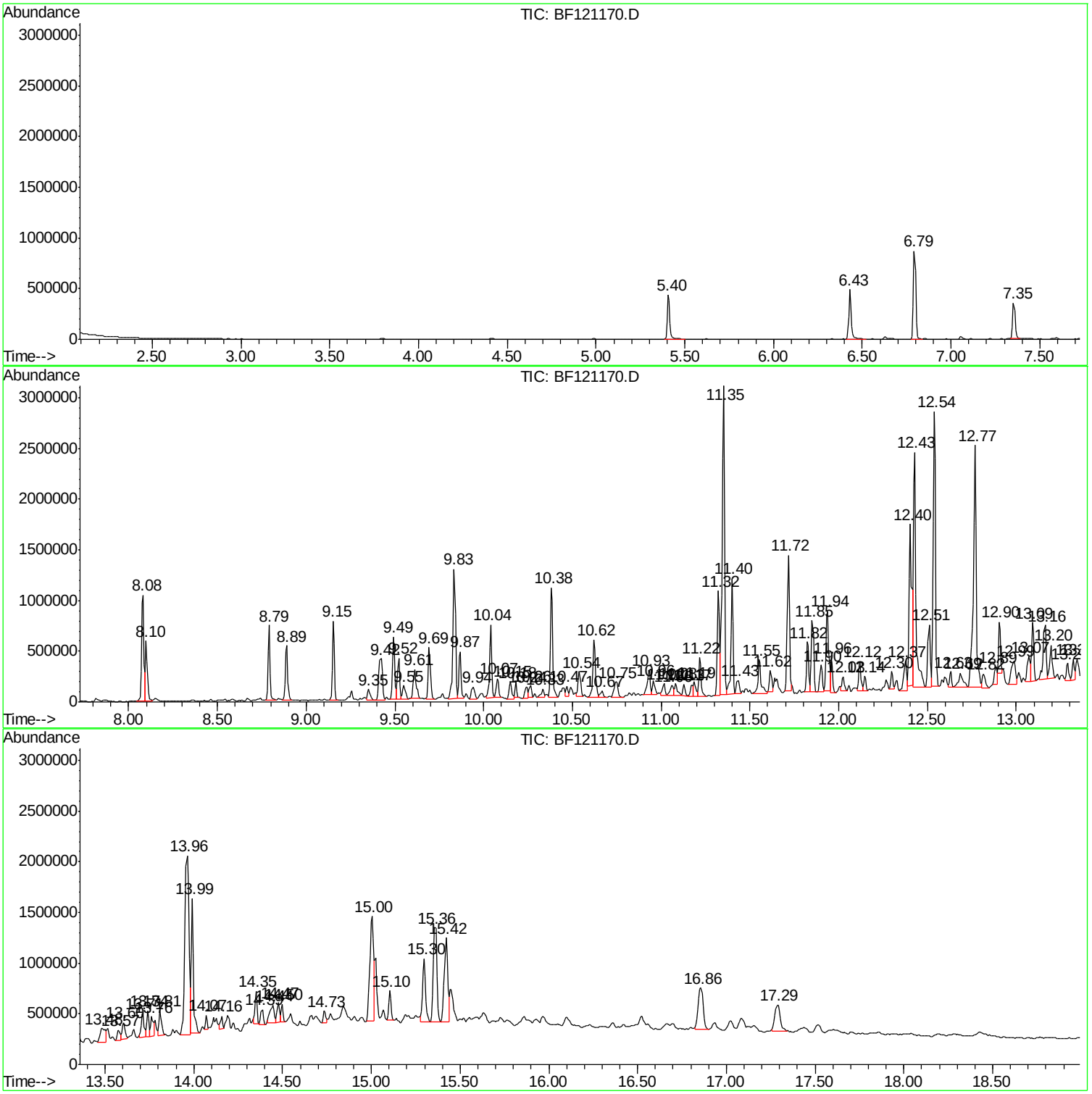
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

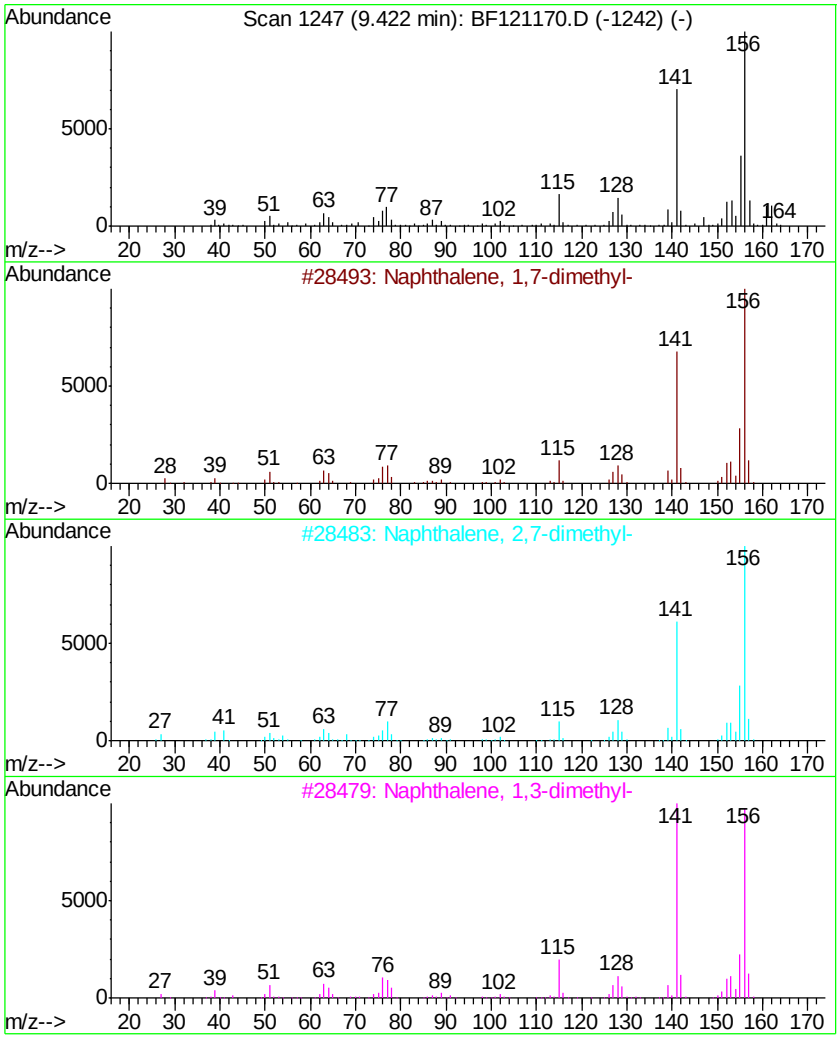
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

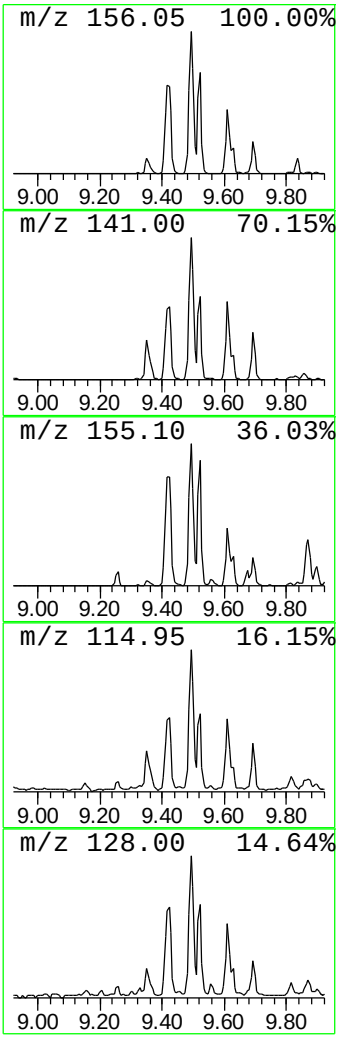
****

Peak Number 1 Naphthalene, 1,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	9.23 ng	537321	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

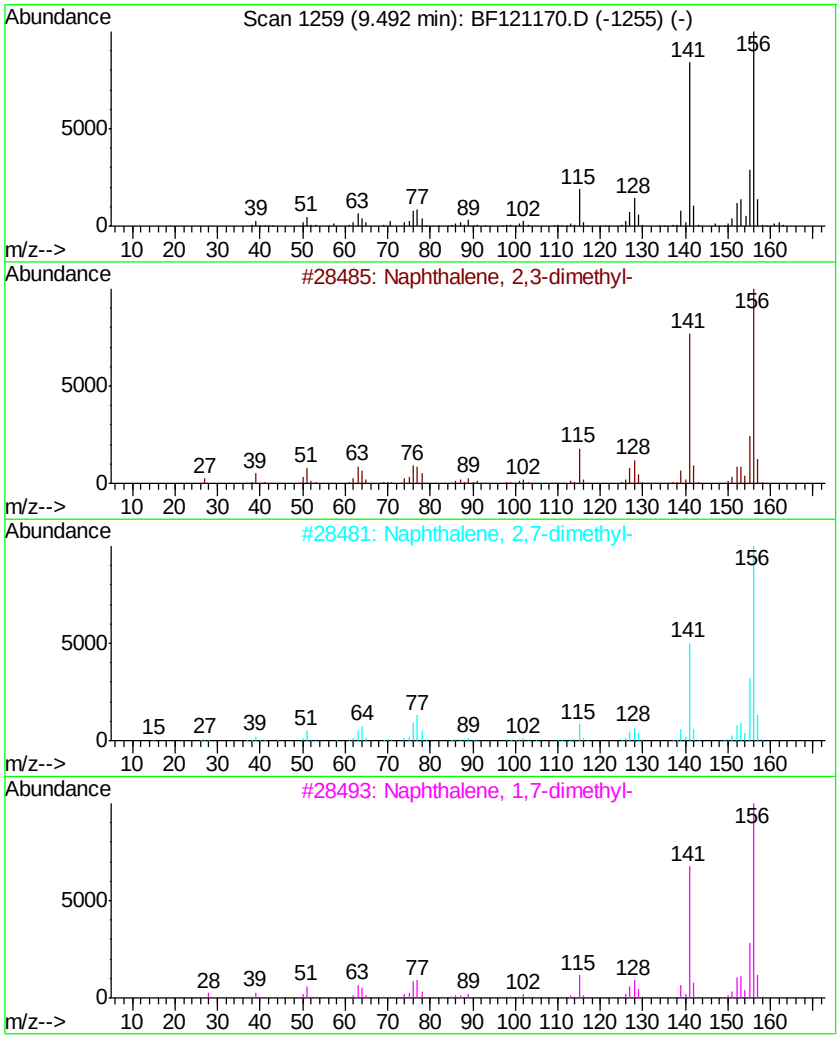
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

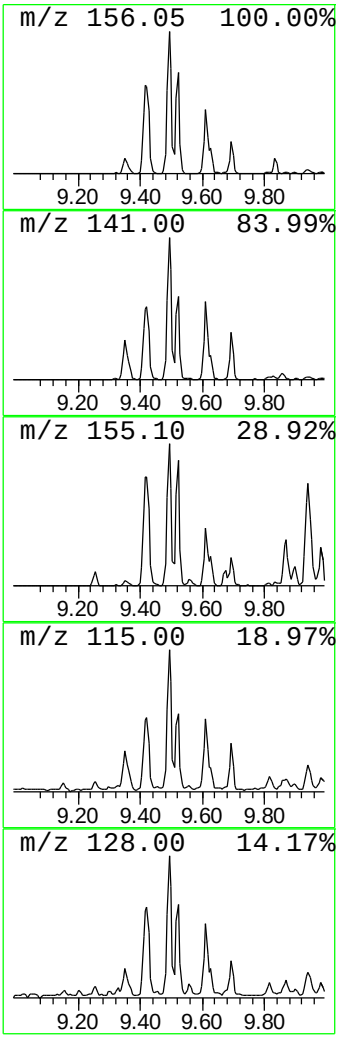
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	10.63 ng	618467	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

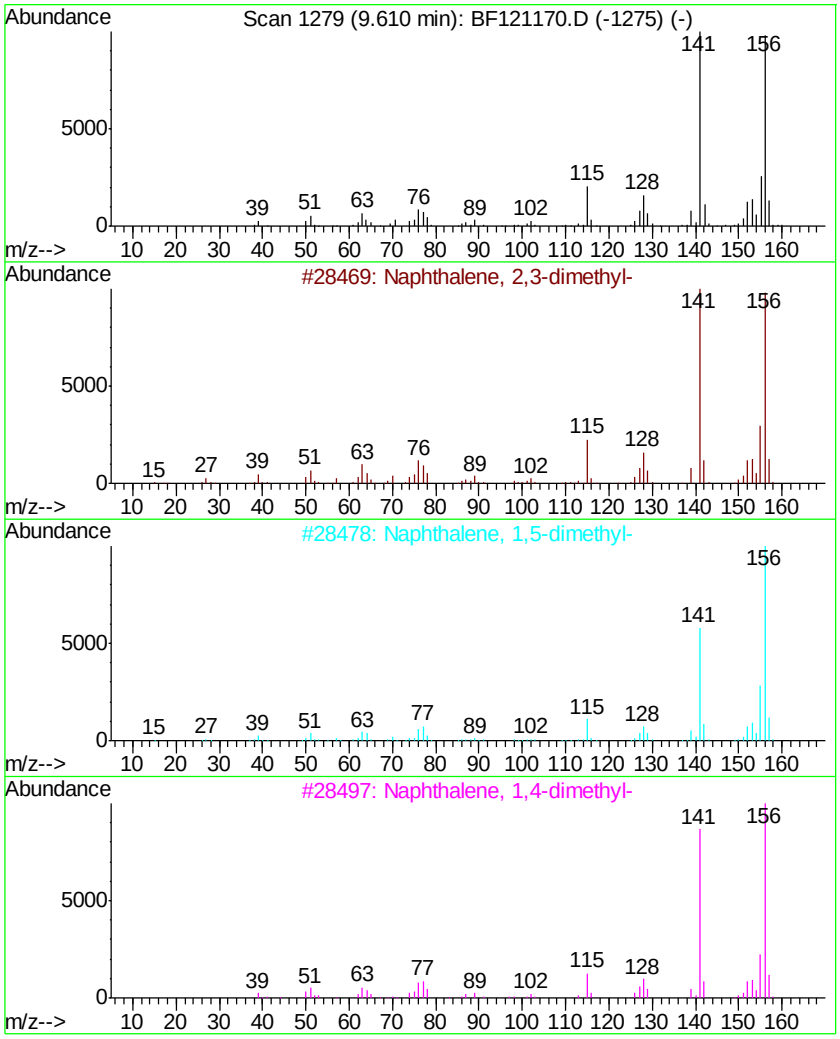
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

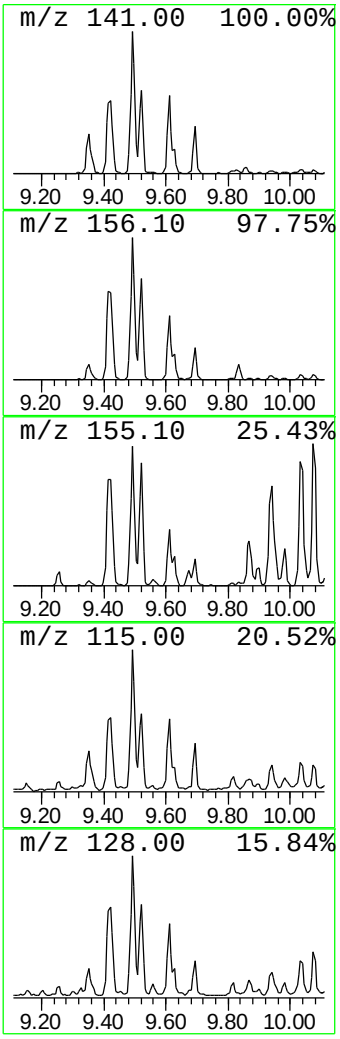
****

Peak Number 3 Naphthalene, 1,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.61	5.13 ng	298321	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

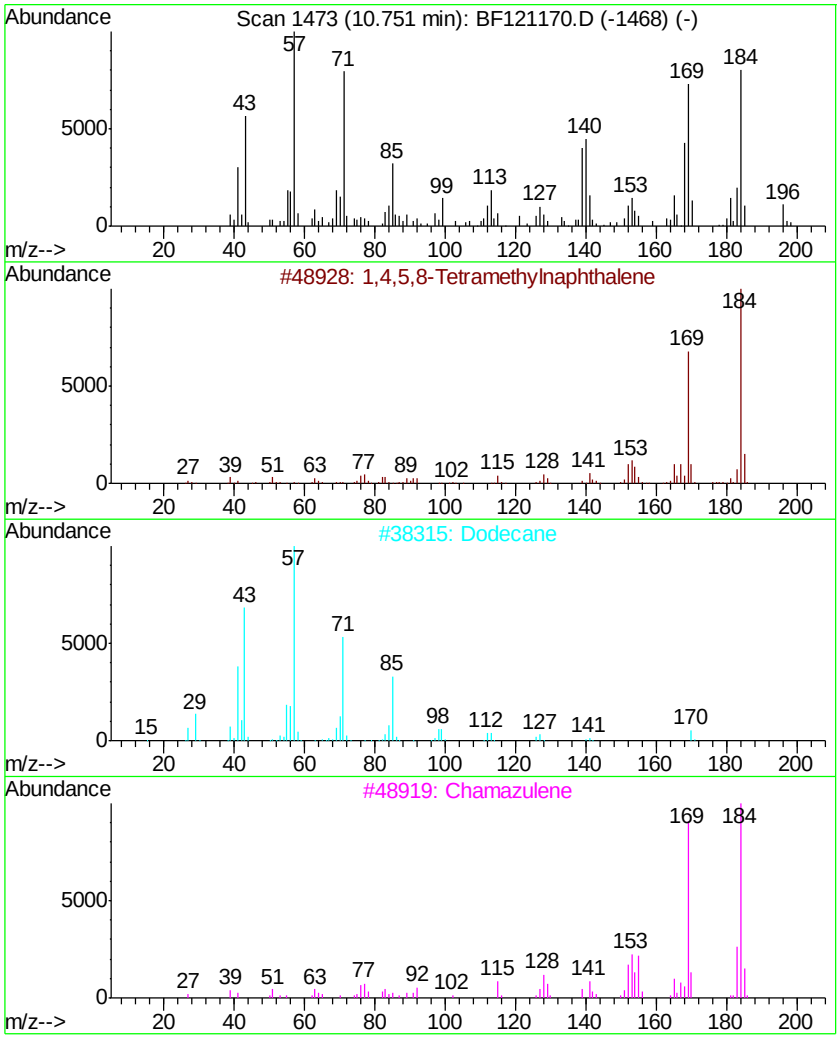
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

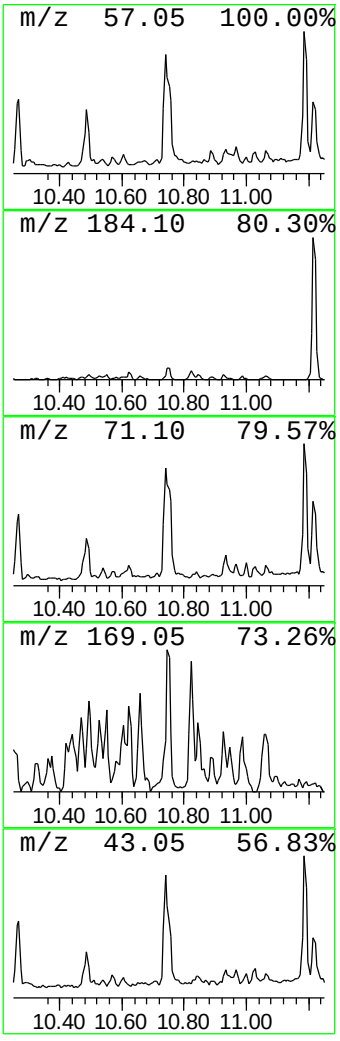
****

Peak Number 4 1,4,5,8-Tetramethylnaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	4.69 ng	242003	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	70
2	Dodecane	170	C12H26	000112-40-3	46
3	Chamazulene	184	C14H16	000529-05-5	38
4	1-Acenaphthylenol, 1,2-dihydro-1...	184	C13H12O	041002-74-8	38
5	Heneicosane	296	C21H44	000629-94-7	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

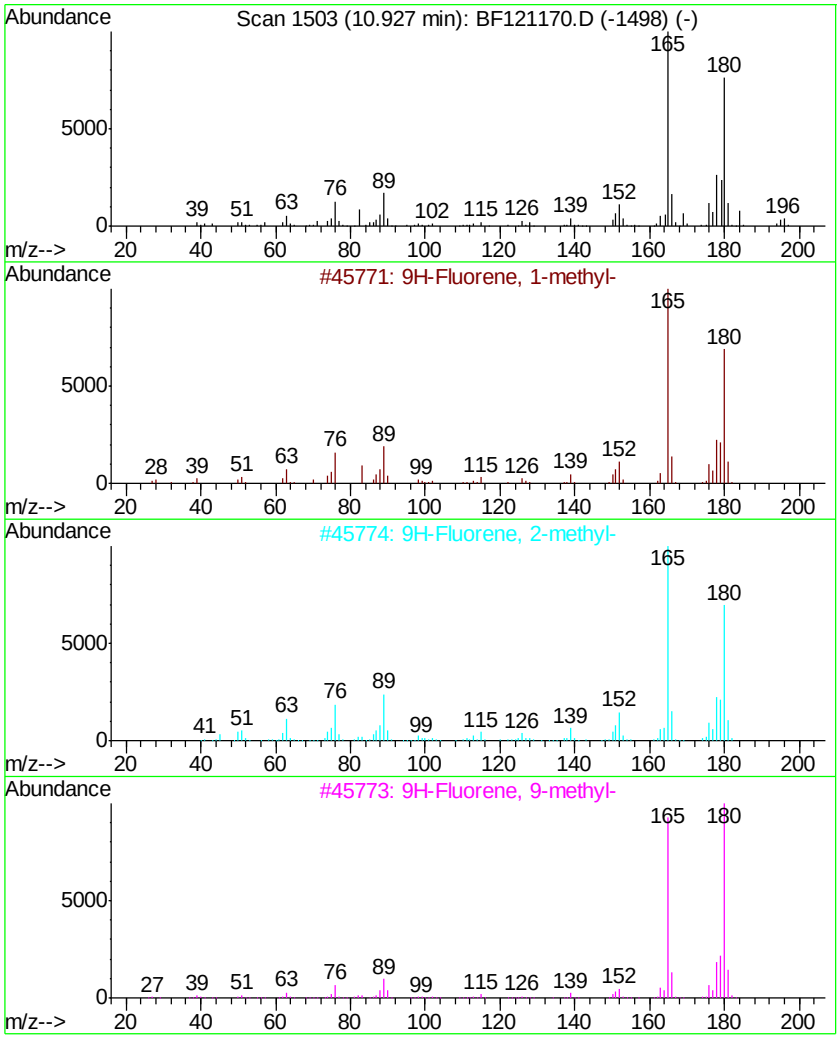
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

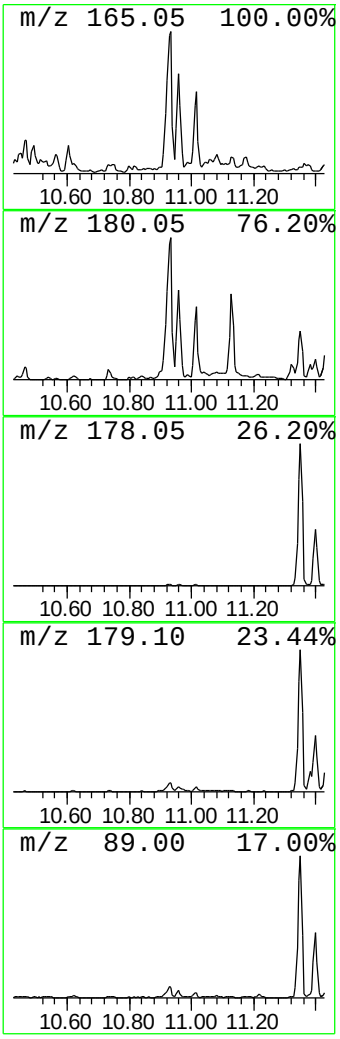
****

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	5.69 ng	293953	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	81





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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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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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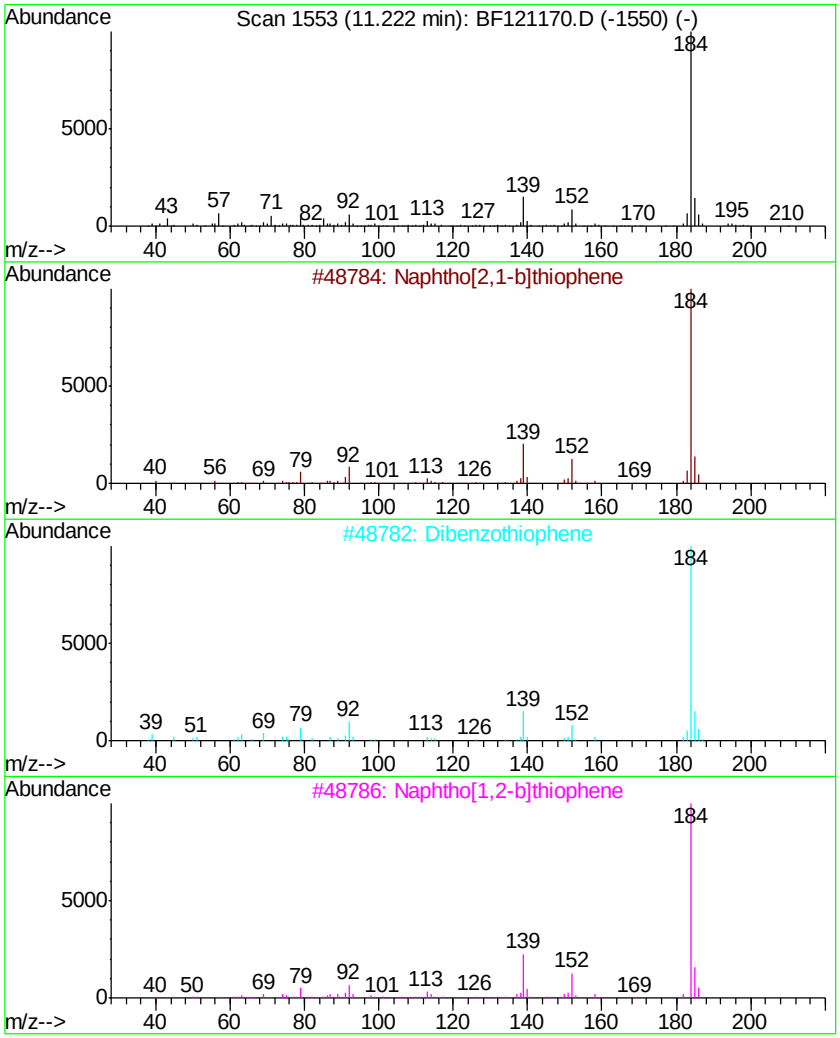
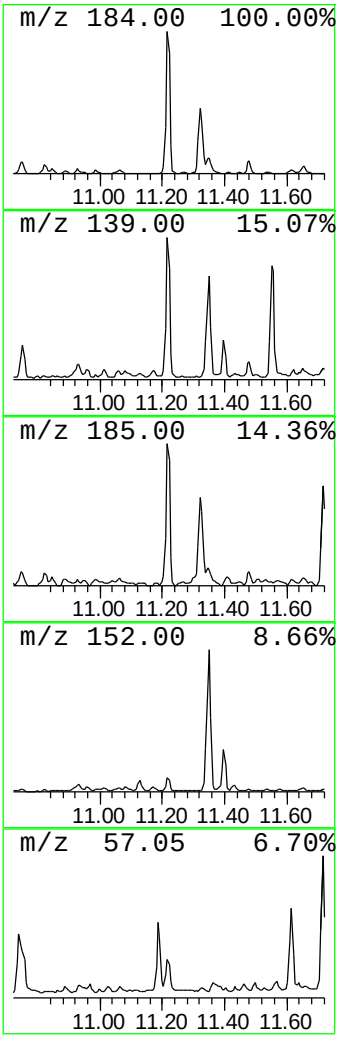
Peak Number 6 Naphtho[2,1-b]thiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	7.14 ng	368759	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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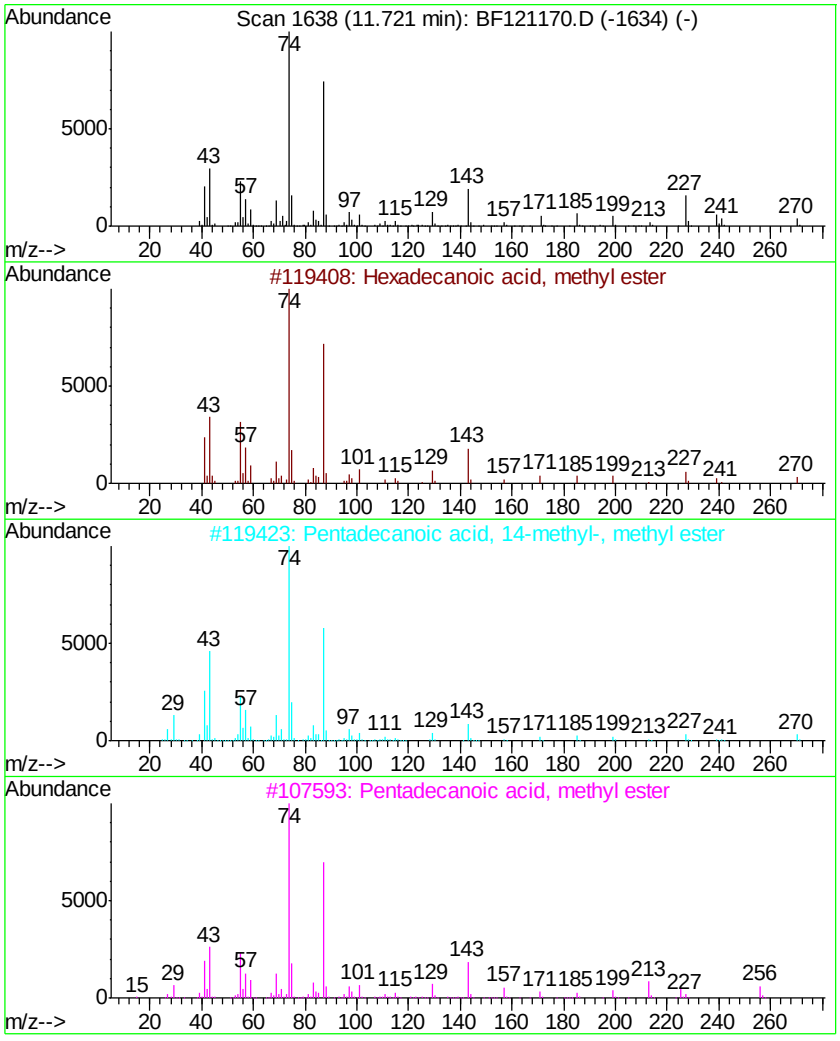
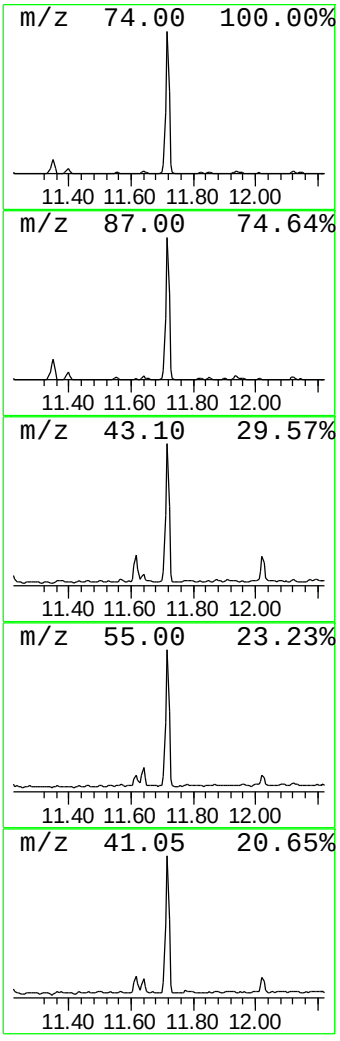
Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	20.27 ng	1047090	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	93
3	Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	86
4	Hexadecanoic acid, 15-methyl-, m...	284	C18H36O2	006929-04-0	83
5	Methyl tetradecanoate	242	C15H30O2	000124-10-7	80





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Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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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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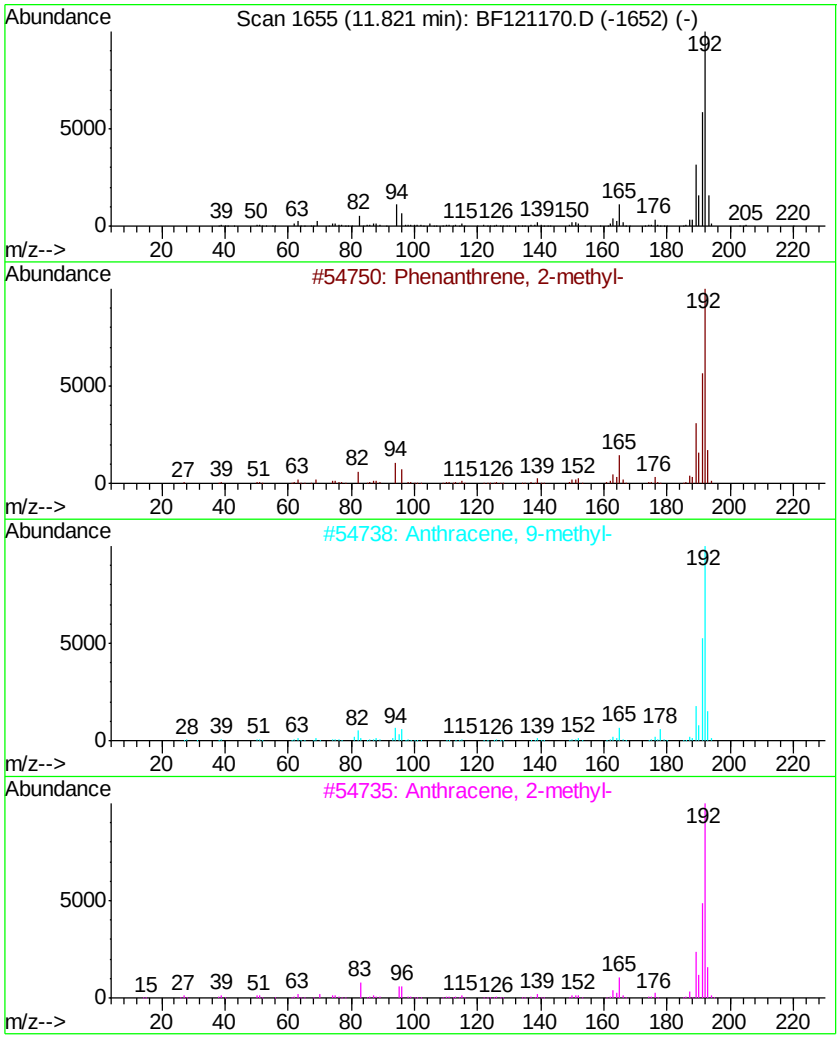
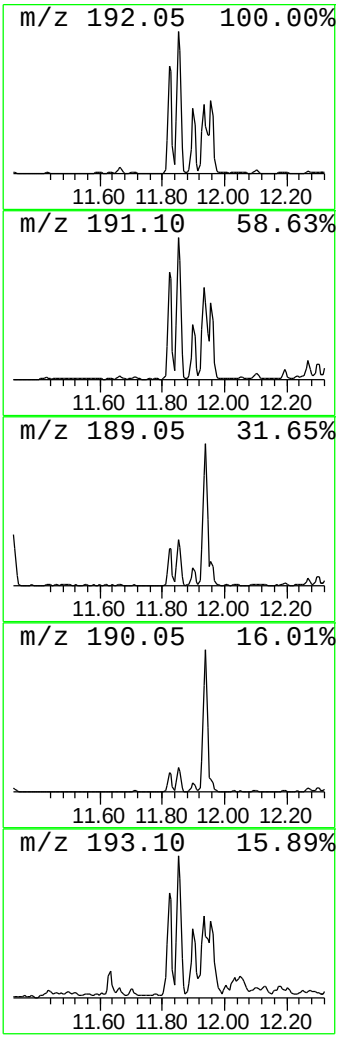
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	9.12 ng	471285	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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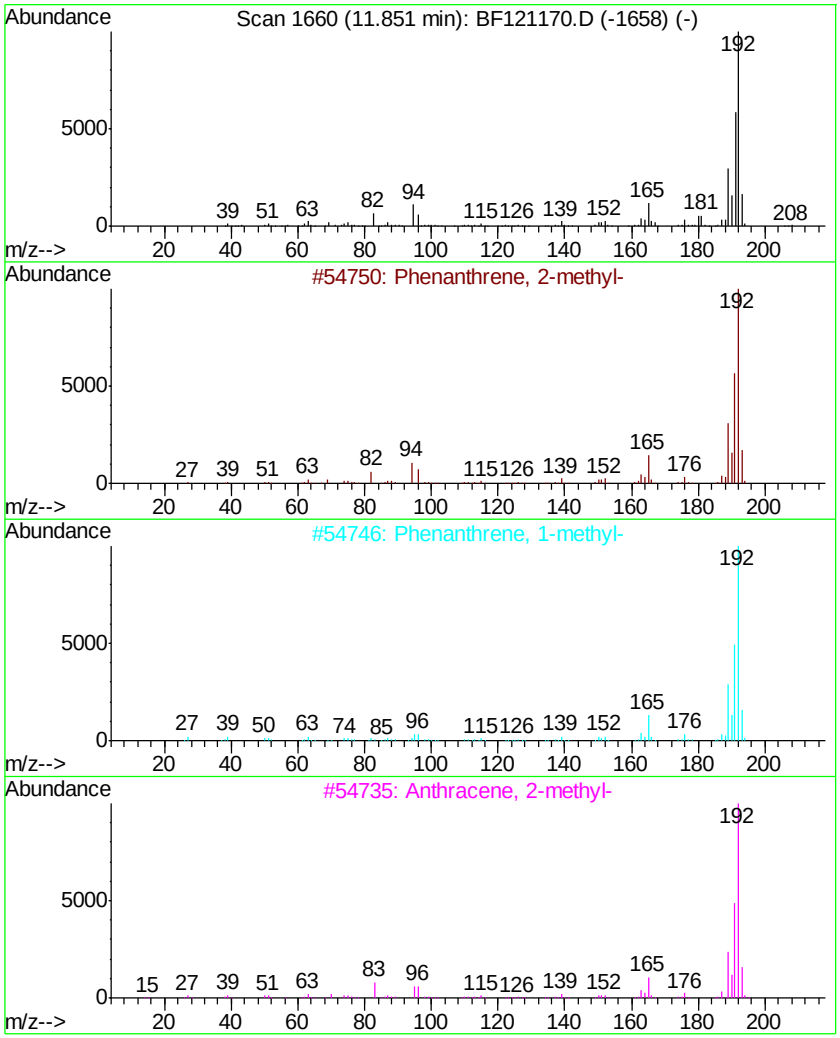
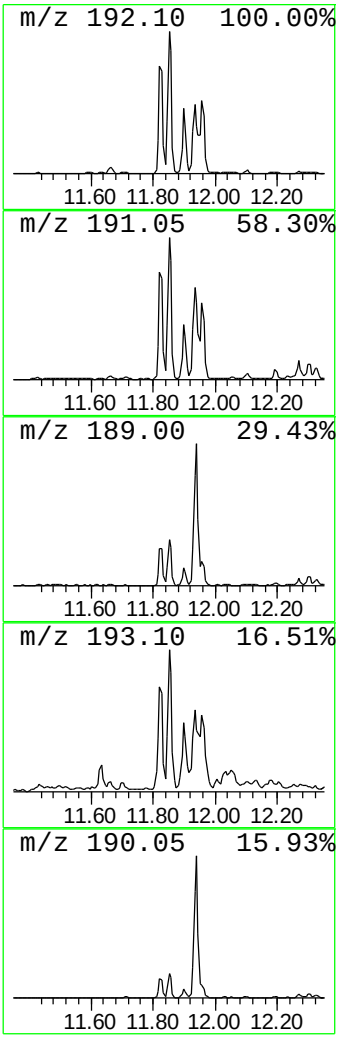
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	11.26 ng	581406	Phenanthrene-d10	11.32

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





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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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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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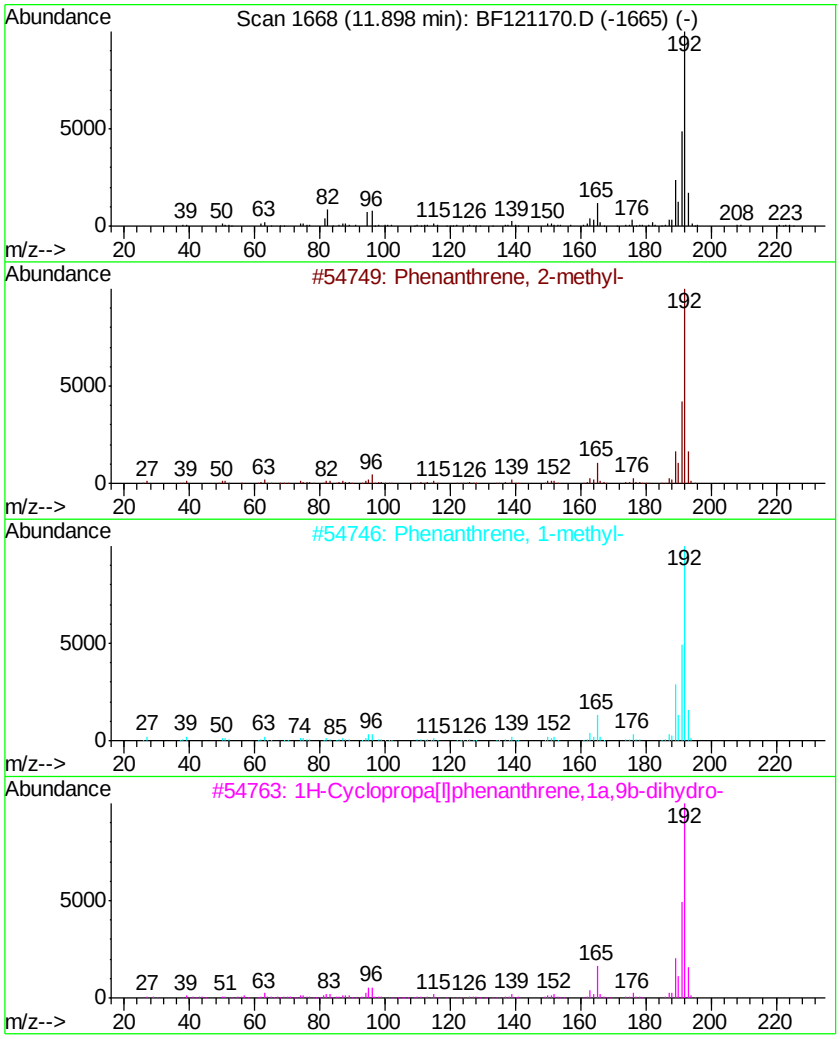
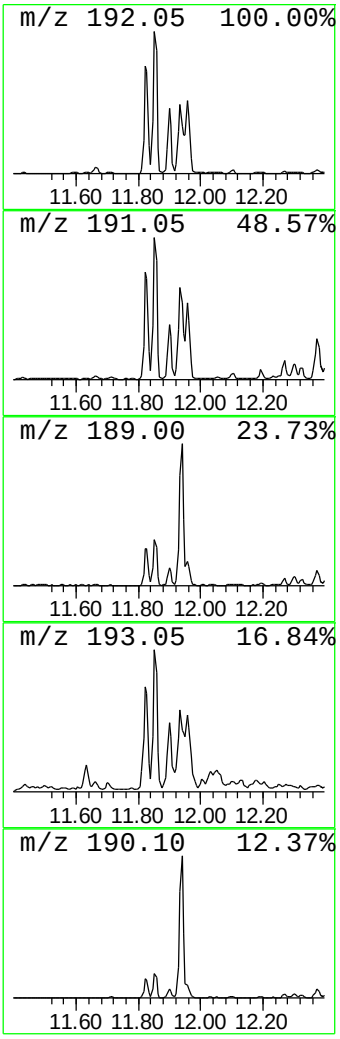
Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	4.66 ng	240464	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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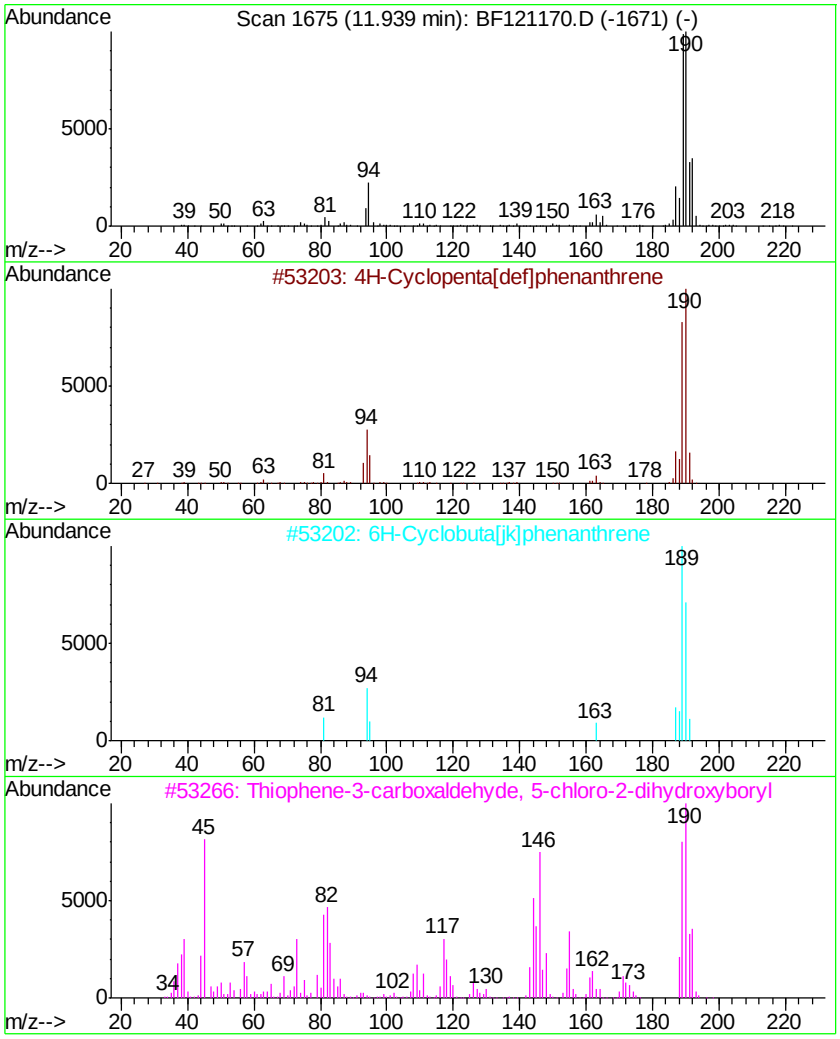
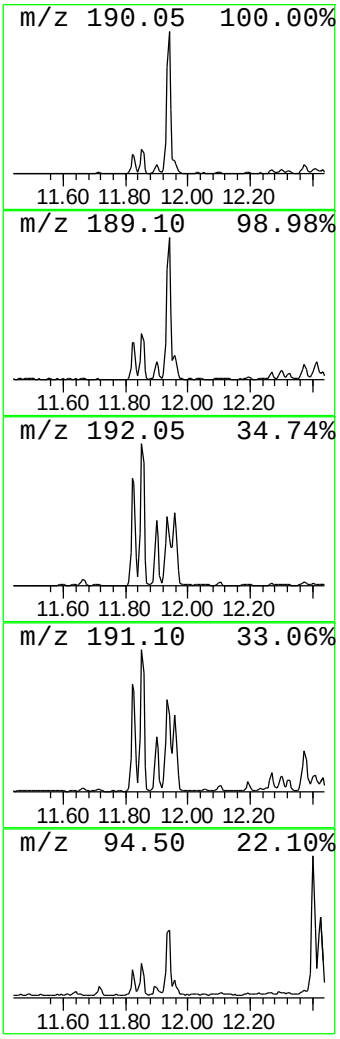
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	16.95 ng	875472	Phenanthrene-d10	11.32

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	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	46





Library Search Compound Report

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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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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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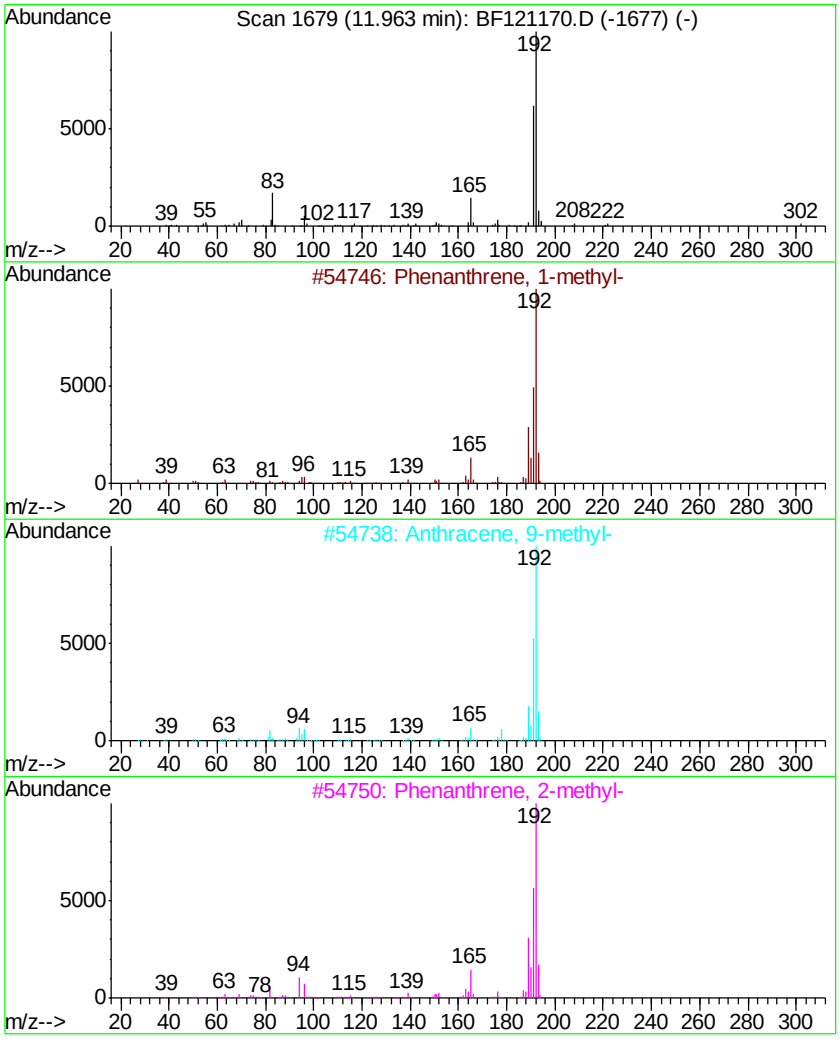
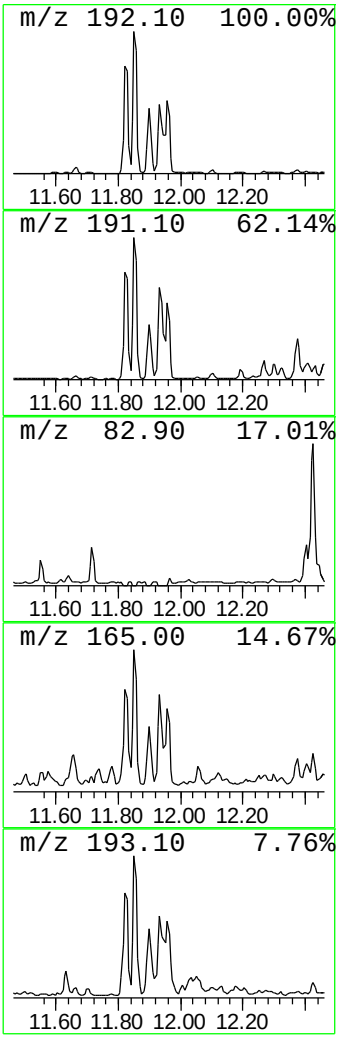
Peak Number 12 Anthracene, 9-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	4.87 ng	251341	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	80
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
4	Benzene, 1,1'-(1,2-propadienylid...	192	C15H12	014251-57-1	80
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	74





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Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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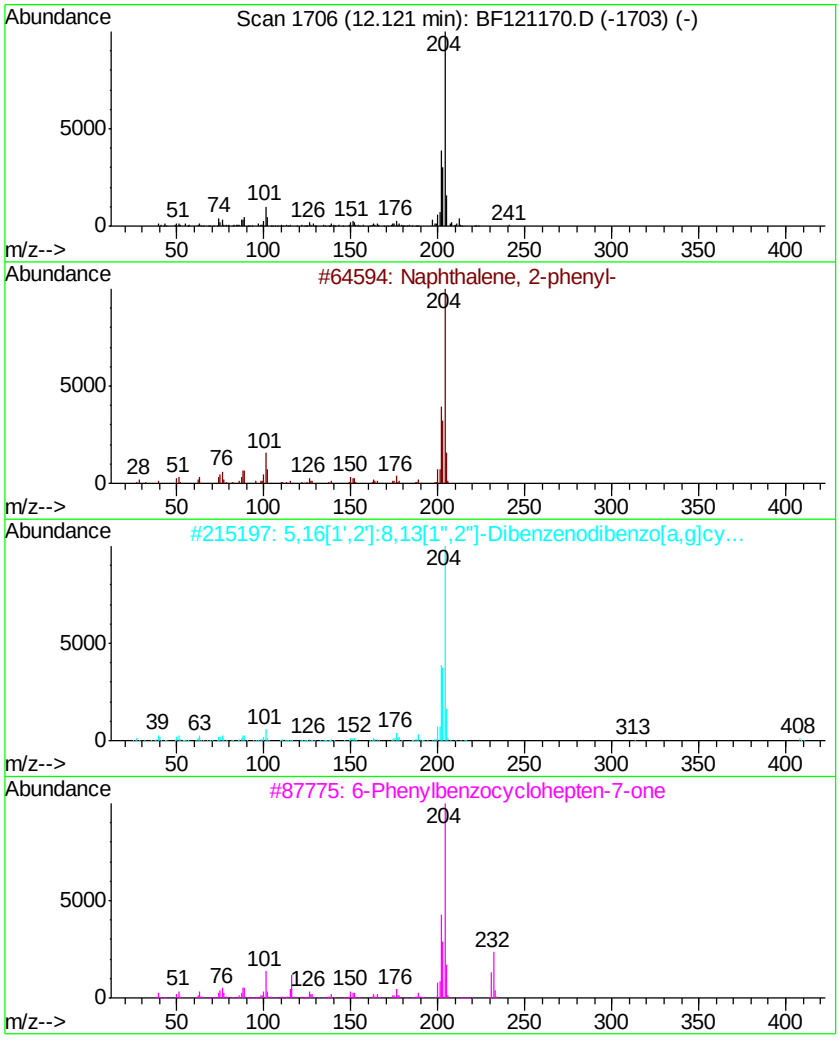
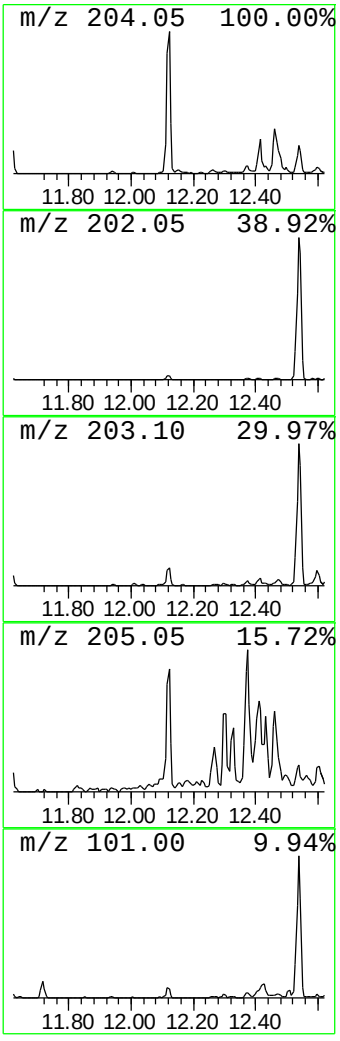
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	5.21 ng	268954	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	74
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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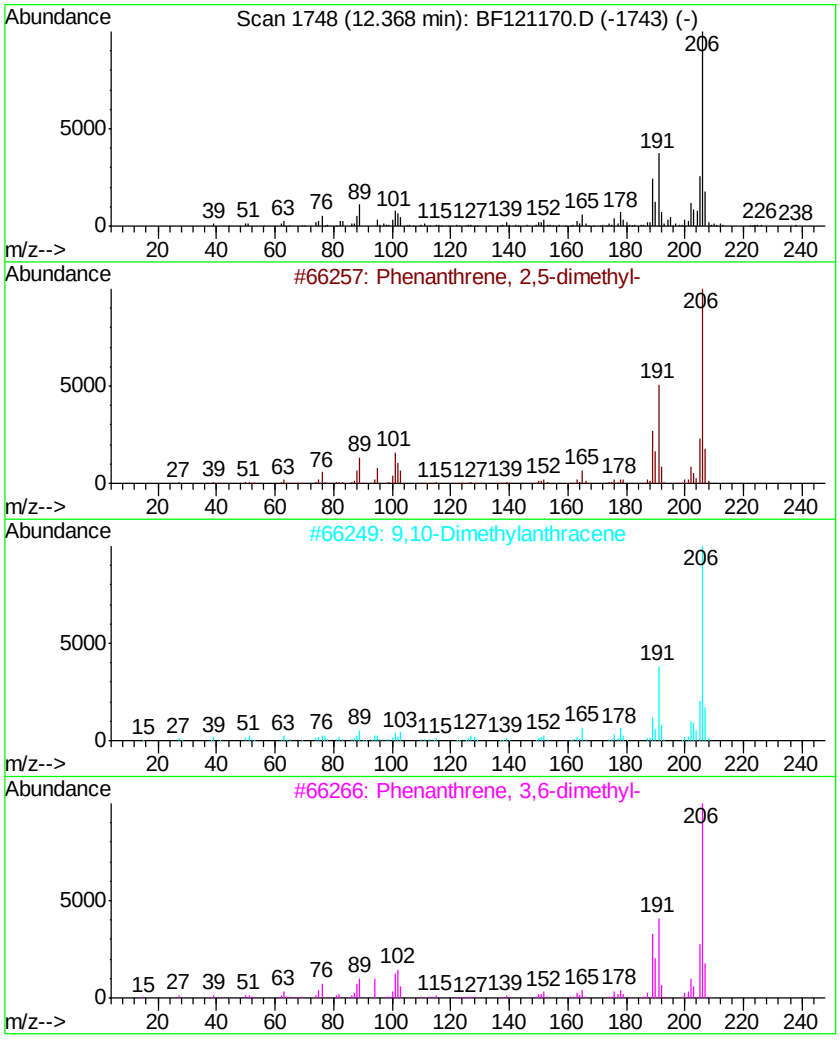
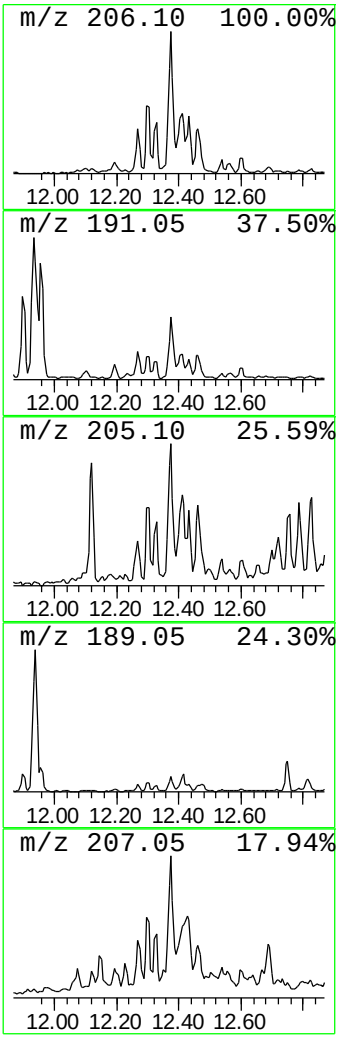
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	6.47 ng	334368	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	98
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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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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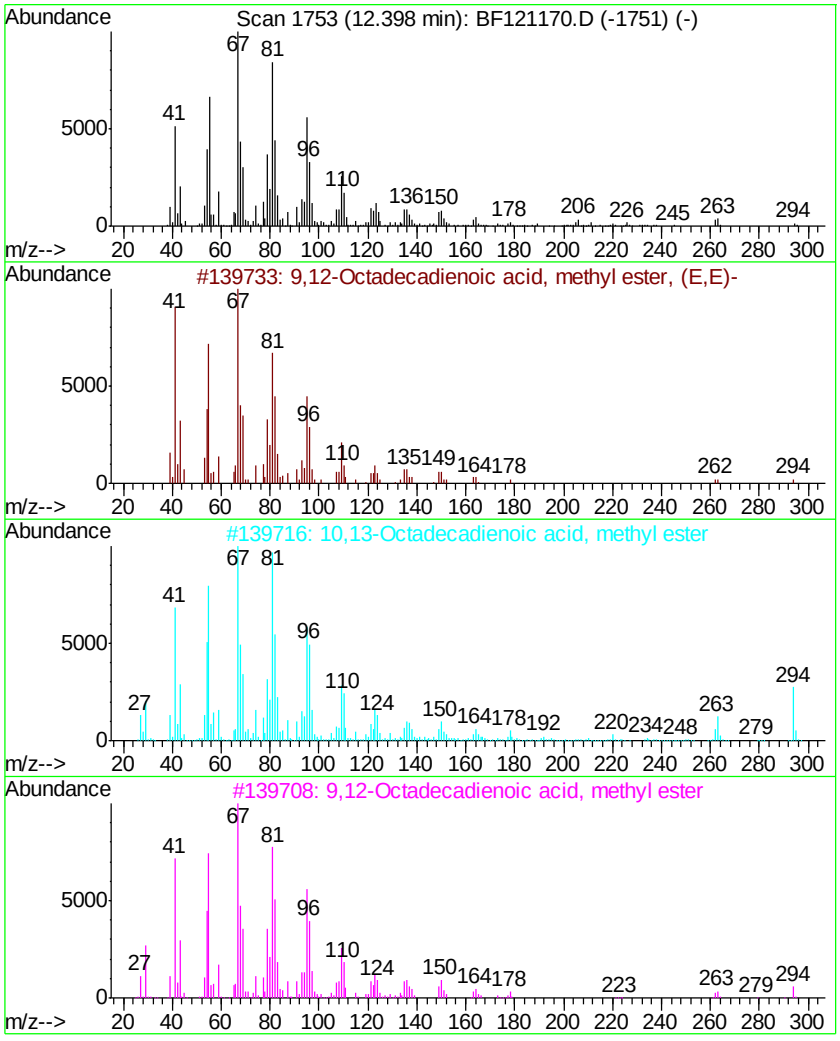
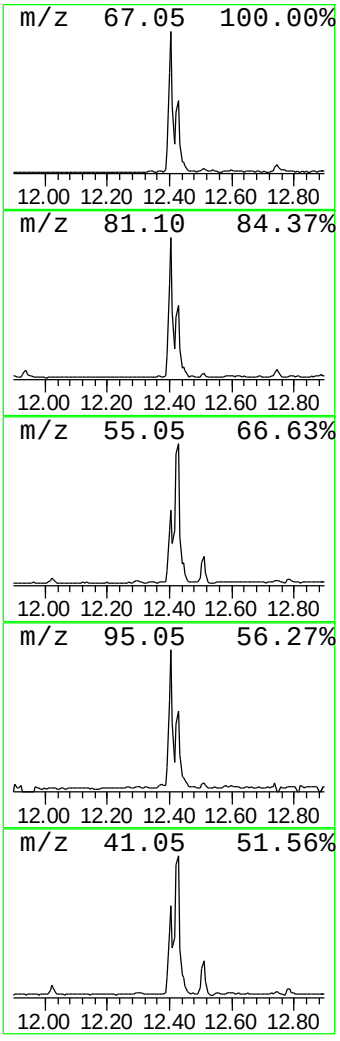
Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	32.84 ng	1696440	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	99
3	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
4	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
5	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99





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Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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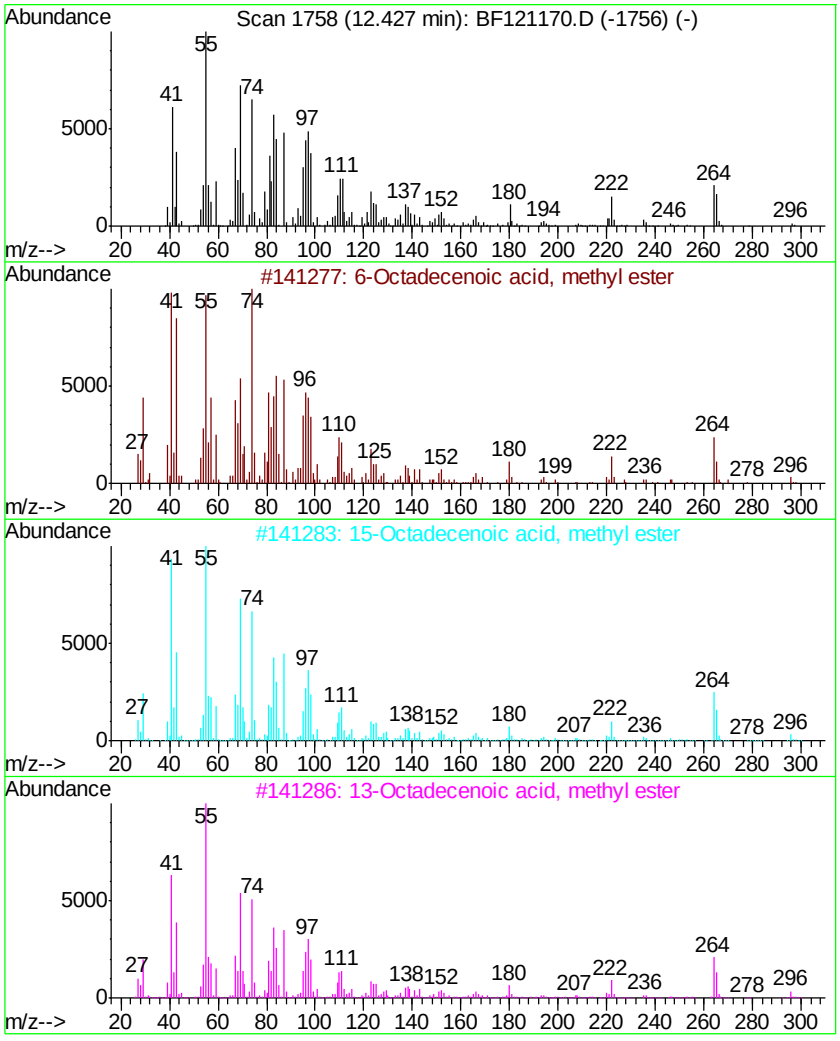
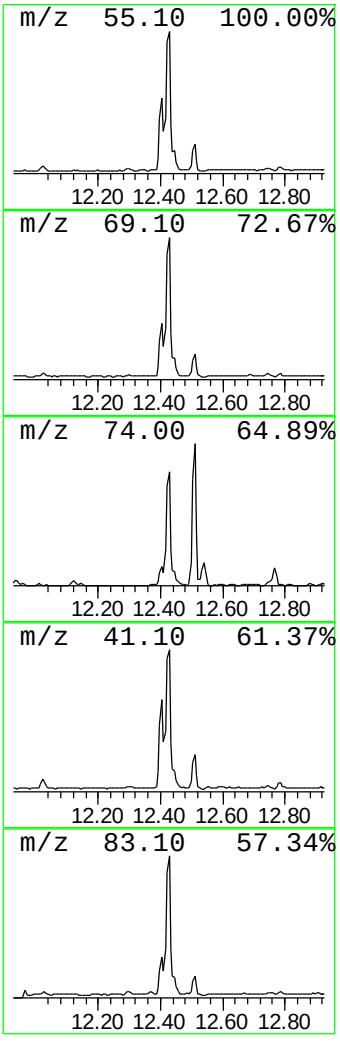
Peak Number 16 6-Octadecenoic acid, methyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	44.57 ng	2301890	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Octadecenoic acid, methyl ester	296	C19H36O2	052355-31-4	99
2	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	99
3	13-Octadecenoic acid, methyl ester	296	C19H36O2	056554-47-3	99
4	12-Octadecenoic acid, methyl ester	296	C19H36O2	056554-46-2	99
5	16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	99





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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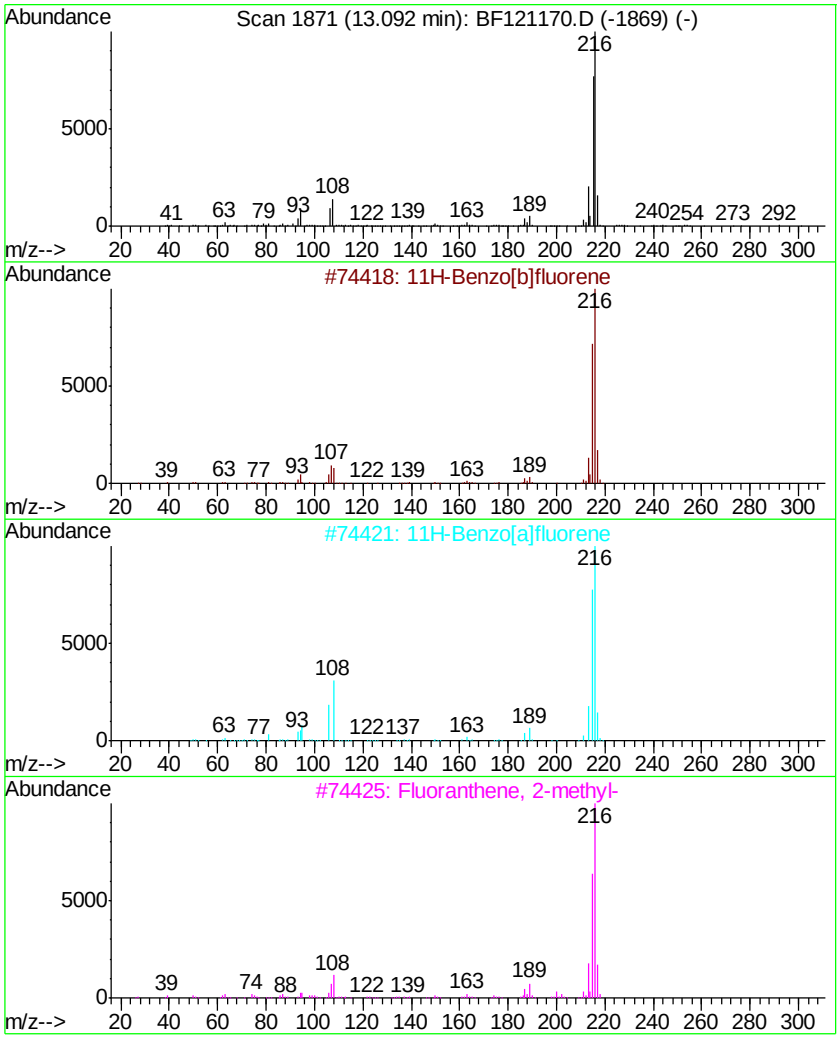
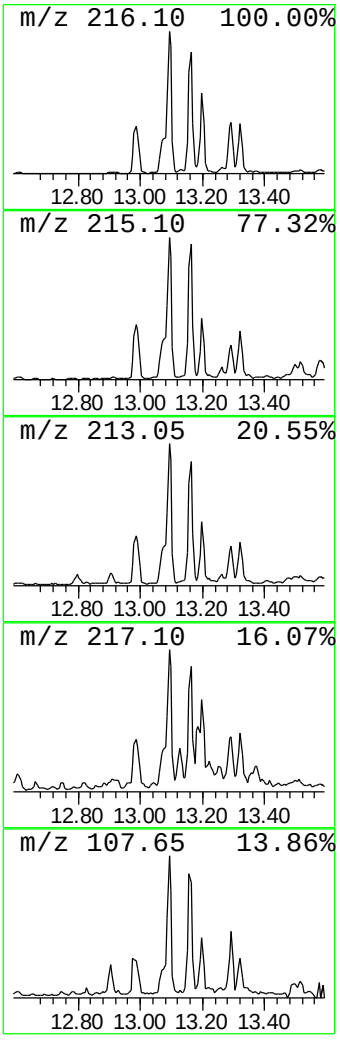
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	3.85 ng	529667	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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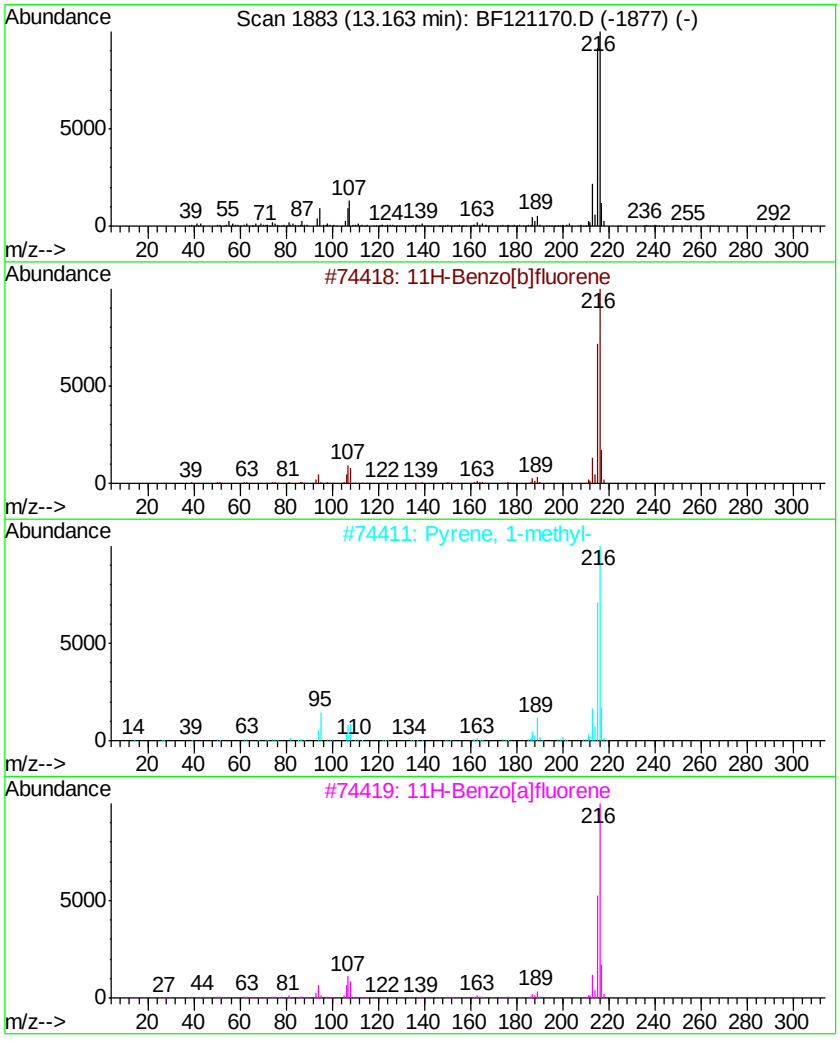
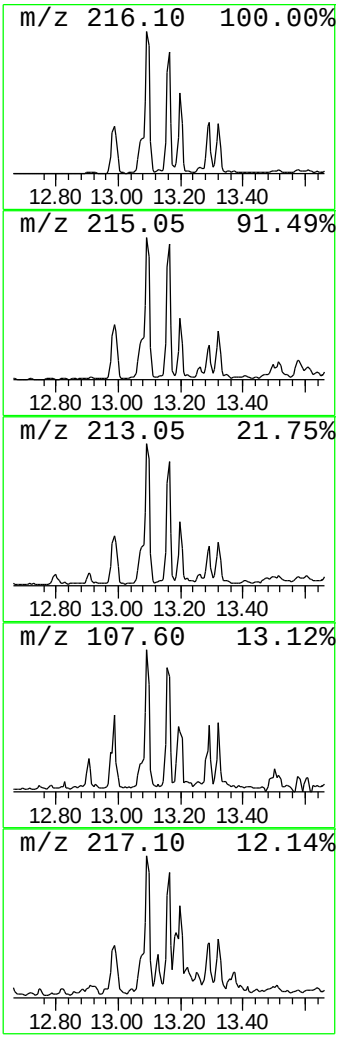
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.15 ng	570001	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
5	Benzoic acid, 3-(3,5-dimethyl-1-...	216	C12H12N2O2	312531-88-7	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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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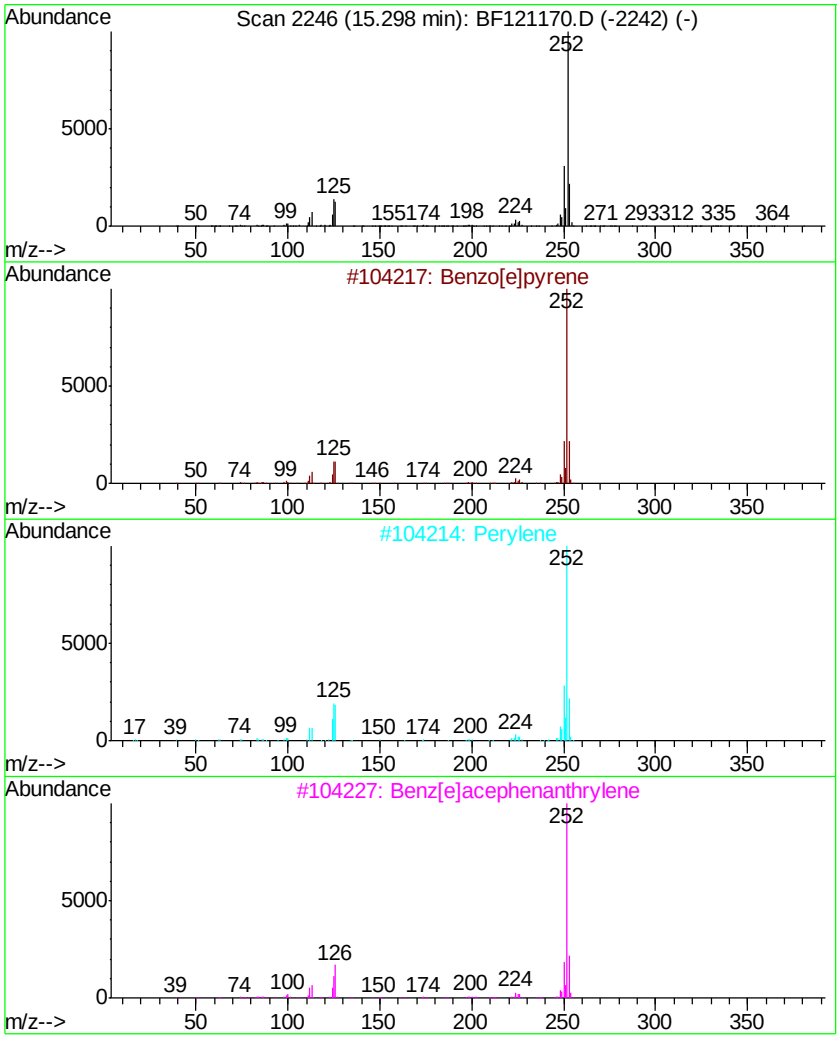
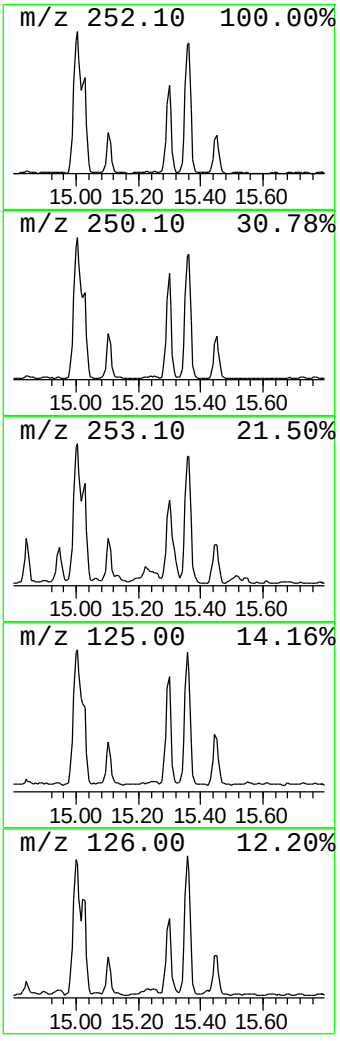
Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	14.05 ng	794583	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	95
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073120\
Data File : BF121170.D
Acq On : 31 Jul 2020 20:53
Operator : JU/CG
Sample : L3180-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-072920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071620.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
Naphthalene, 1,7-...	9.42	9.2	ng	537321	3	9.83	1164040	20.0
Naphthalene, 2,3-...	9.49	10.6	ng	618467	3	9.83	1164040	20.0
Naphthalene, 1,5-...	9.61	5.1	ng	298321	3	9.83	1164040	20.0
1,4,5,8-Tetrameth...	10.75	4.7	ng	242003	4	11.32	1033030	20.0
9H-Fluorene, 1-me...	10.93	5.7	ng	293953	4	11.32	1033030	20.0
Naphtho[2,1-b]thi...	11.22	7.1	ng	368759	4	11.32	1033030	20.0
Hexadecanoic acid...	11.72	20.3	ng	1047090	4	11.32	1033030	20.0
Phenanthrene, 2-m...	11.82	9.1	ng	471285	4	11.32	1033030	20.0
Phenanthrene, 1-m...	11.85	11.3	ng	581406	4	11.32	1033030	20.0
1H-Cyclopropa[l]p...	11.90	4.7	ng	240464	4	11.32	1033030	20.0
4H-Cyclopenta[def...	11.94	16.9	ng	875472	4	11.32	1033030	20.0
Anthracene, 9-met...	11.96	4.9	ng	251341	4	11.32	1033030	20.0
Naphthalene, 2-ph...	12.12	5.2	ng	268954	4	11.32	1033030	20.0
Phenanthrene, 2,5...	12.37	6.5	ng	334368	4	11.32	1033030	20.0
9,12-Octadecadien...	12.40	32.8	ng	1696440	4	11.32	1033030	20.0
6-Octadecenoic ac...	12.43	44.6	ng	2301890	4	11.32	1033030	20.0
11H-Benzo[b]fluorene	13.09	3.9	ng	529667	5	13.97	2749480	20.0
Pyrene, 1-methyl-	13.16	4.2	ng	570001	5	13.97	2749480	20.0
Benzo[e]pyrene	15.30	14.1	ng	794583	6	15.42	1130760	20.0