LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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-BF061918.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	5.178	478	483	493	rBV	100078	132970	13.84%	1.019%
2	5.584	548	552	569	rVB	872840	856531	89.12%	6.564%
3	6.590	718	723	737	rBV	787152	862476	89.74%	6.610%
4	6.719	741	745	748	rVV	913280	856877	89.16%	6.567%
5	6.760	748	752	764	rVB2	28620	37108	3.86%	0.284%
6	6.937	778	782	788	rBV	282075	233189	24.26%	1.787%
7	7.095	805	809	812	rBV	780650	707548	73.62%	5.422%
8	7.507	874	879	882	rBV	594396	572329	59.55%	4.386%
9	8.219	996	1000	1003	rBV	300705	276441	28.76%	2.119%
10	8.242	1003	1004	1010	rVB2	35675	25264	2.63%	0.194%
11	8.789	1092	1097	1101	rVB	12661	10413	1.08%	0.080%
12	8.936	1118	1122	1126	rBV	23101	21110	2.20%	0.162%
13	9.036	1135	1139	1141	rVB	12451	10437	1.09%	0.080%
14	9.219	1164	1170	1178	rBV2	7608	10685	1.11%	0.082%
15	9.295	1178	1183	1186	rBV	1065037	961058	100.00%	7.365%
16	9.354	1190	1193	1196	rBV	17865	17107	1.78%	0.131%
17	9.395	1196	1200	1204	rVB	184045	157631	16.40%	1.208%
18	9.636	1238	1241	1244	rVV	12267	10431	1.09%	0.080%
19	9.689	1244	1250	1256	rVB	214918	213836	22.25%	1.639%
20	9.842	1270	1276	1280	rBV	28122	28336	2.95%	0.217%
21	9.883	1280	1283	1286	rVB	18857	15110	1.57%	0.116%
22	9.978	1296	1299	1303	rBV	285817	263544	27.42%	2.020%
23	10.013	1303	1305	1308	rVB	29120	20930	2.18%	0.160%
24	10.183	1329	1334	1337	rBV2	20397	26803	2.79%	0.205%
25	10.289	1348	1352	1355	rBV2	10571	12309	1.28%	0.094%
26	10.383	1365	1368	1370	rBV2	27989	23237	2.42%	0.178%
27	10.530	1389	1393	1399	rVB4	25547	31217	3.25%	0.239%
28	10.607	1402	1406	1409	rVV4	10385	13640	1.42%	0.105%
29	10.777	1431	1435	1440	rBV	560962	515302	53.62%	3.949%
30	10.860	1446	1449	1453	rBV2	24525	34192	3.56%	0.262%
31	11.083	1477	1487	1488	rBV6	10828	21521	2.24%	0.165%
32	11.201	1503	1507	1510	rBV5	8564	11211	1.17%	0.086%
33	11.283	1518	1521	1523	rBV	15875	14859	1.55%	0.114%
34	11.307	1523	1525	1528	rBV3	20297	20247	2.11%	0.155%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.372	1534	1536	1540	rVB	13960	12225	1.27%	0.094%
36	11.477	1550	1554	1556	rBV	287947	266864	27.77%	2.045%
37	11.501	1556	1558	1561	rVB	252033	188615	19.63%	1.445%
38	11.554	1564	1567	1570	rBV	72746	62484	6.50%	0.479%
39	11.713	1586	1594	1596	rBV2	29056	34371	3.58%	0.263%
40	11.736	1596	1598	1601	rVB	23838	18971	1.97%	0.145%
41	11.807	1606	1610	1614	rVB2	20380	25011	2.60%	0.192%
42	11.895	1623	1625	1628	rVB2	9624	10371	1.08%	0.079%
43	11.977	1636	1639	1642	rBV	51616	54260	5.65%	0.416%
44	12.007	1642	1644	1647	rVV2	67209	54753	5.70%	0.420%
45	12.054	1649	1652	1655	rVV	25124	24379	2.54%	0.187%
46	12.089	1655	1658	1661	rVV2	76063	91678	9.54%	0.703%
47	12.113	1661	1662	1665	rVB	44373	26842	2.79%	0.206%
48	12.142	1665	1667	1670	rBV2	17721	16343	1.70%	0.125%
49	12.213	1676	1679	1682	rVB	16301	14102	1.47%	0.108%
50	12.272	1685	1689	1691	rBV	47763	45459	4.73%	0.348%
51	12.307	1693	1695	1699	rVB2	30661	31207	3.25%	0.239%
52	12.407	1709	1712	1713	rBV	13126	13605	1.42%	0.104%
53	12.454	1717	1720	1722	rVV	28321	23149	2.41%	0.177%
54	12.477	1722	1724	1726	rVB2	23133	17094	1.78%	0.131%
55	12.530	1729	1733	1735	rBV2	76042	74069	7.71%	0.568%
56	12.566	1737	1739	1741	rVV2	25692	27471	2.86%	0.211%
57	12.624	1745	1749	1757	rBV3	42280	74913	7.79%	0.574%
58	12.695	1757	1761	1765	rBV	453243	434758	45.24%	3.332%
59	12.730	1765	1767	1769	rVV	17243	13683	1.42%	0.105%
60	12.754	1769	1771	1775	rVB2	14767	13907	1.45%	0.107%
61	12.795	1775	1778	1782	rBV	19884	23021	2.40%	0.176%
62	12.848	1782	1787	1789	rBV3	36530	43324	4.51%	0.332%
63	12.871	1789	1791	1794	rVB2	20379	16803	1.75%	0.129%
64	12.907	1794	1797	1798	rBV	100253	88837	9.24%	0.681%
65	12.930	1798	1801	1806	rVB	517157	464807	48.36%	3.562%
66	12.977	1806	1809	1813	rBV	41796	45969	4.78%	0.352%
67	13.060	1819	1823	1826	rBV	976575	918260	95.55%	7.037%
68	13.089	1826	1828	1832	rVB2	27244	33615	3.50%	0.258%
69	13.154	1833	1839	1842	rBV3	42342	85489	8.90%	0.655%
70	13.254	1849	1856	1861	rBV	80451	151678	15.78%	1.162%
71	13.324	1865	1868	1870	rVB	39677	29668	3.09%	0.227%

LSC Area Percent Report

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Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.360	1872	1874	1877	rVB2	44711	42578	4.43%	0.326%
73	13.454	1888	1890	1893	rBV	53797	49116	5.11%	0.376%
74	13.489	1893	1896	1898	rVV	58684	60836	6.33%	0.466%
75	13.524	1900	1902	1904	rVB	38278	28267	2.94%	0.217%
76	13.771	1941	1944	1947	rVB	61346	53483	5.57%	0.410%
77	13.883	1960	1963	1965	rVB	50680	41273	4.29%	0.316%
78	13.907	1965	1967	1969	rVB	47581	36600	3.81%	0.280%
79	13.936	1969	1972	1977	rBV3	93594	131381	13.67%	1.007%
80	13.983	1978	1980	1983	rVB	50386	37483	3.90%	0.287%
81	14.130	2001	2005	2008	rBV2	388184	590352	61.43%	4.524%
82	14.160	2008	2010	2016	rVB	277163	237882	24.75%	1.823%
83	14.242	2022	2024	2027	rBV2	50665	49521	5.15%	0.380%
84	14.524	2070	2072	2075	rVB	61446	45658	4.75%	0.350%
85	14.560	2076	2078	2080	rBV	47181	42450	4.42%	0.325%
86	15.218	2186	2190	2197	rVB	209424	427912	44.53%	3.279%
87	15.542	2242	2245	2249	rBV	124984	133647	13.91%	1.024%
88	15.612	2253	2257	2264	rVB	163450	231502	24.09%	1.774%
89	15.677	2264	2268	2271	rBV	177051	210626	21.92%	1.614%

Sum of corrected areas: 13048521

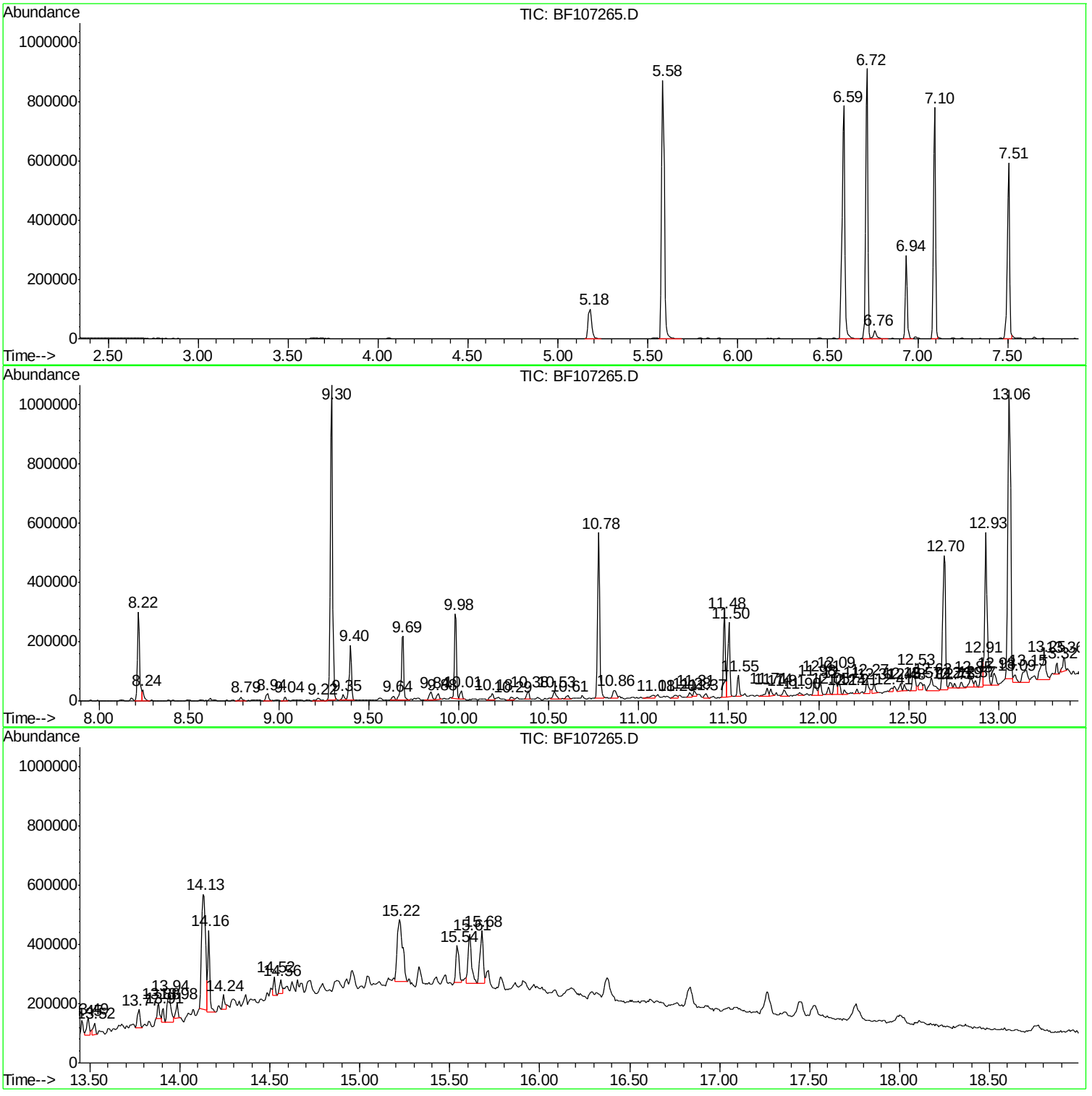
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

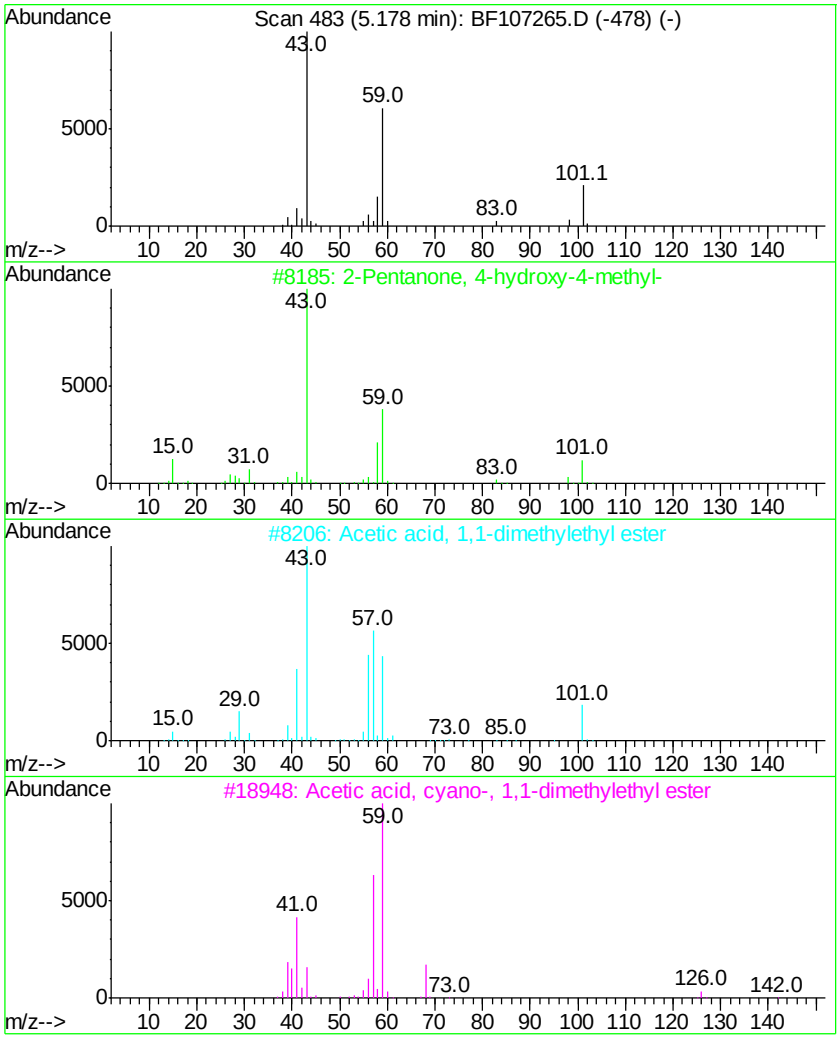
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

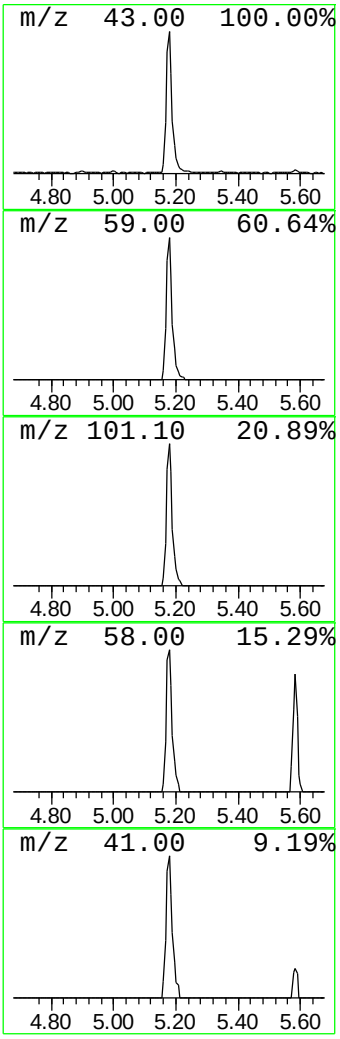
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	11.40 ng	132970	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	50
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

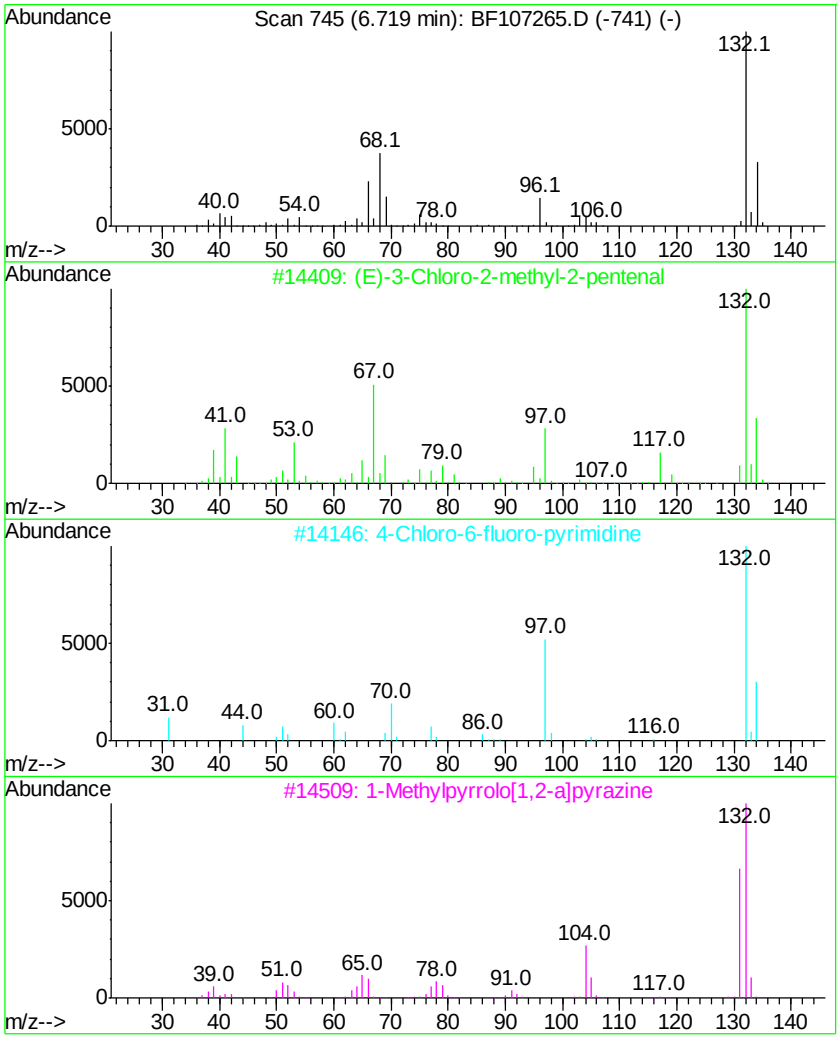
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

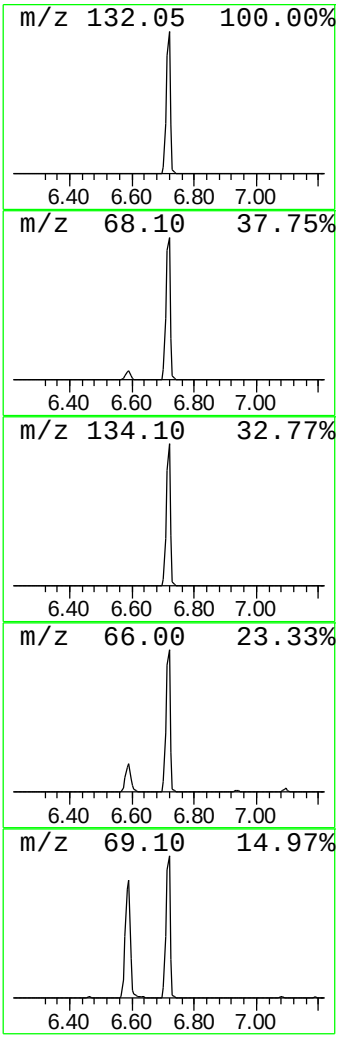
****

Peak Number 2 unknown6.72 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	73.49 ng	856877	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
3	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	5-Aminoindole	132	C8H8N2	005192-03-0	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

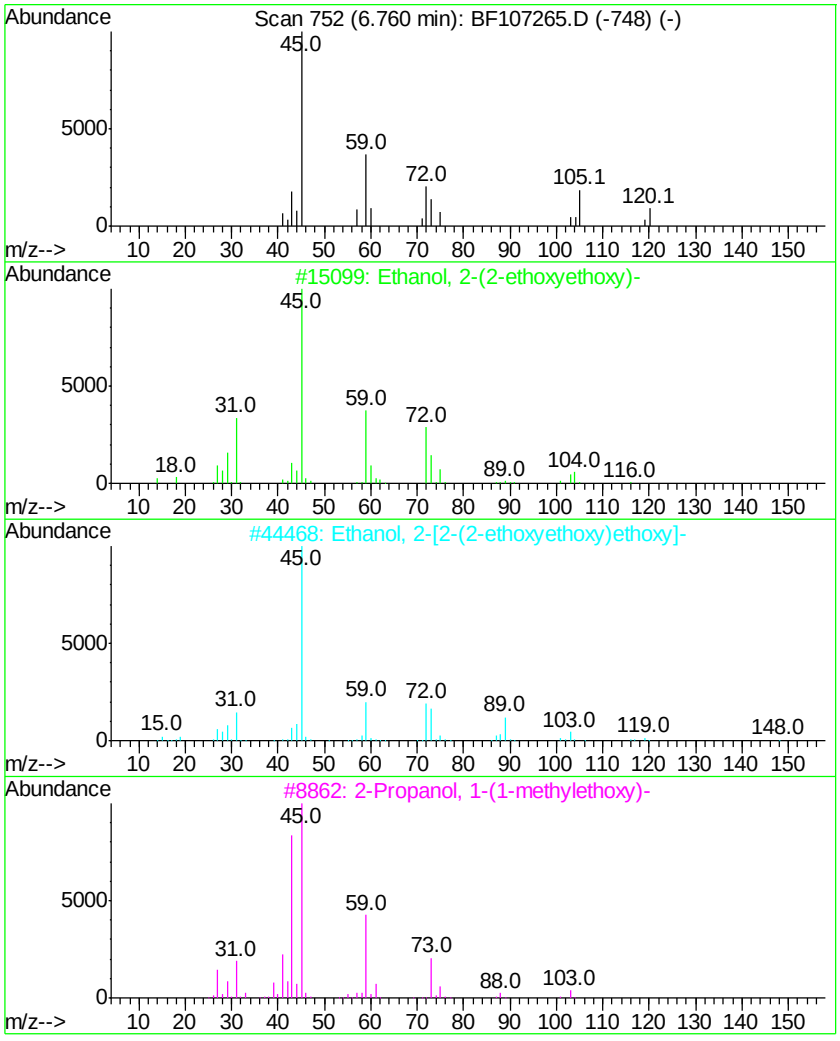
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

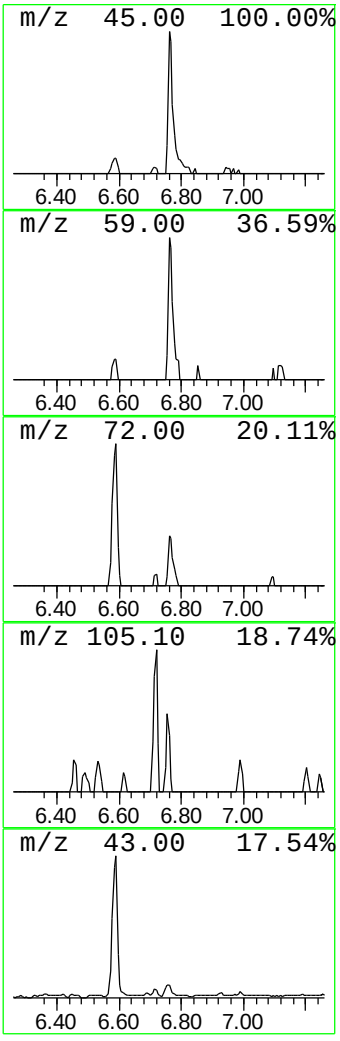
****

Peak Number 3 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.76	3.18 ng	37108	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	72
2	Ethanol, 2-[2-(2-ethoxyethoxy)et...	178	C8H18O4	000112-50-5	38
3	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	28
4	Ethyl ether	74	C4H10O	000060-29-7	25
5	Acetic acid, (2-ethoxy)ethoxy-, ...	162	C7H14O4	016326-34-4	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

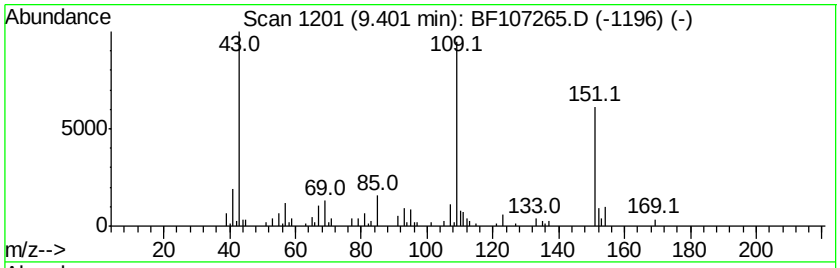
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

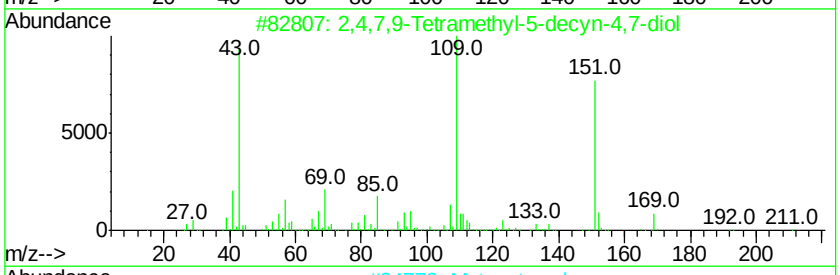
****

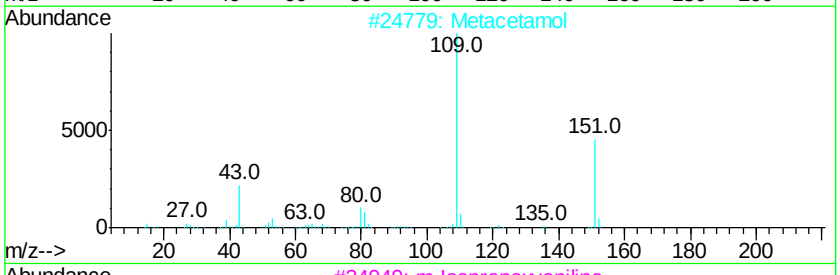
Peak Number 5 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 4

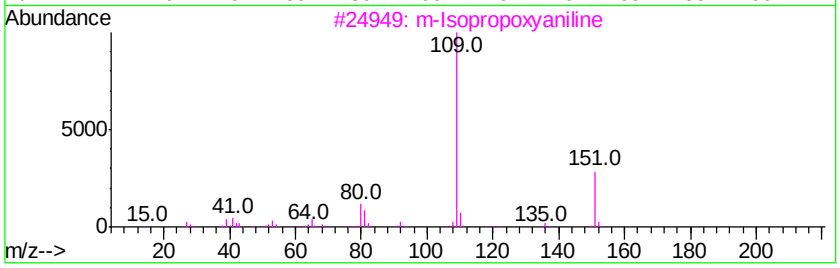
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	11.96 ng	157631	Acenaphthene-d10	9.98

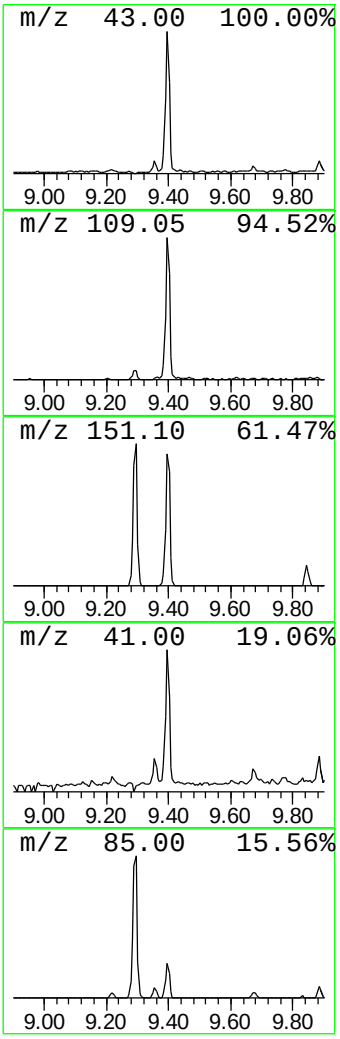
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	90
2	Metacetamol	151	C8H9NO2	000621-42-1	58
3	m-Isopropoxyaniline	151	C9H13NO	041406-00-2	53
4	(2-Fluorophenyl) methanol, ethyl...	154	C9H11FO	1000374-44-6	46
5	Camphorsulfonic acid	232	C10H16O4S	003144-16-9	45











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Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

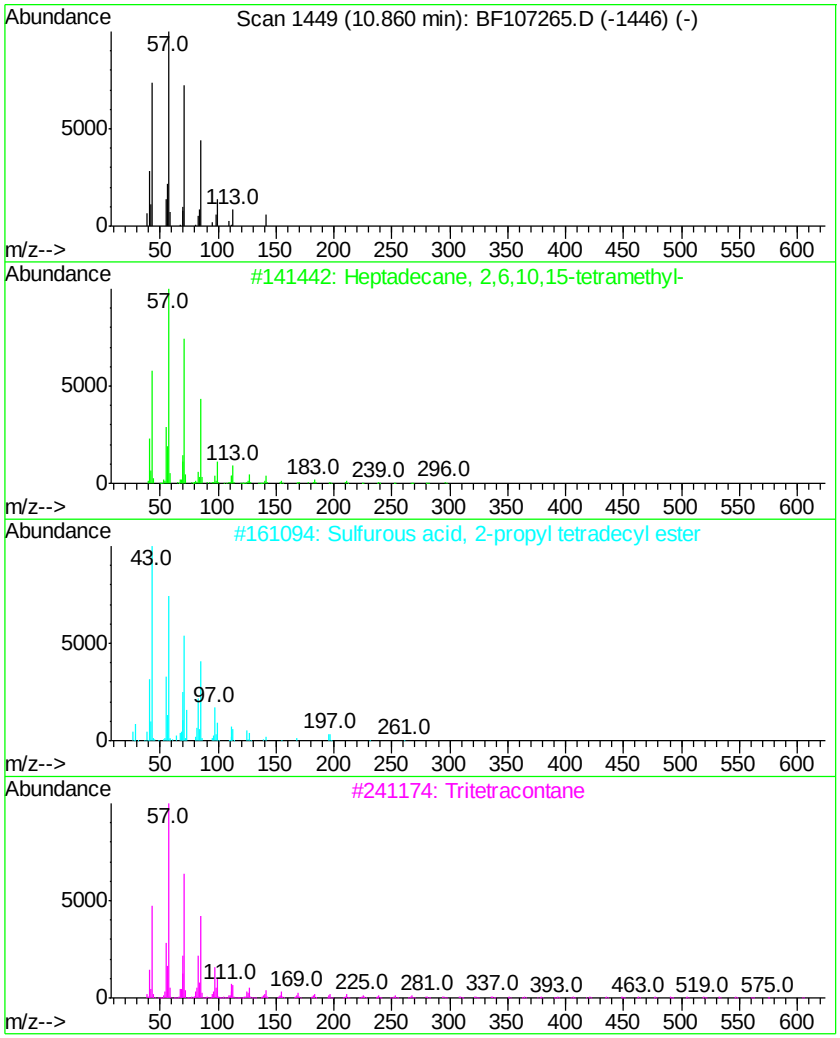
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

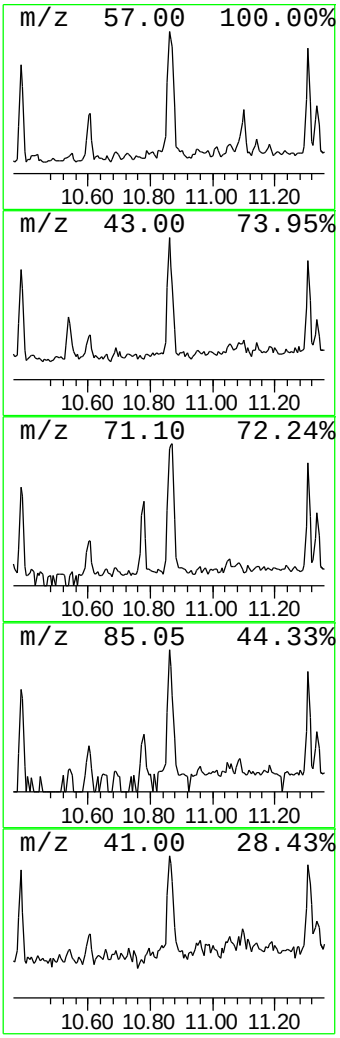
****

Peak Number 8 Heptadecane, 2,6,10,15-tetr... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.86	2.56 ng	34192	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	83
2	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	78
3	Tritetracontane	605	C43H88	007098-21-7	78
4	Heptadecane	240	C17H36	000629-78-7	78
5	Undecane, 2,10-dimethyl-	184	C13H28	017301-27-8	78





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Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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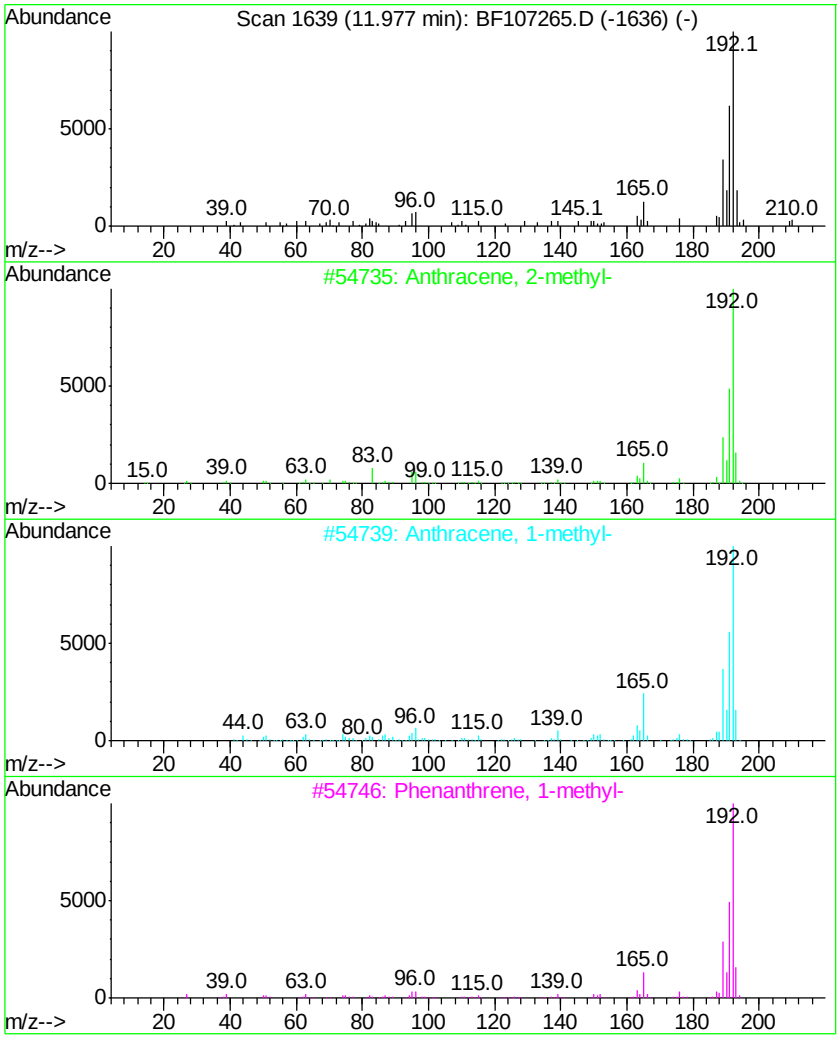
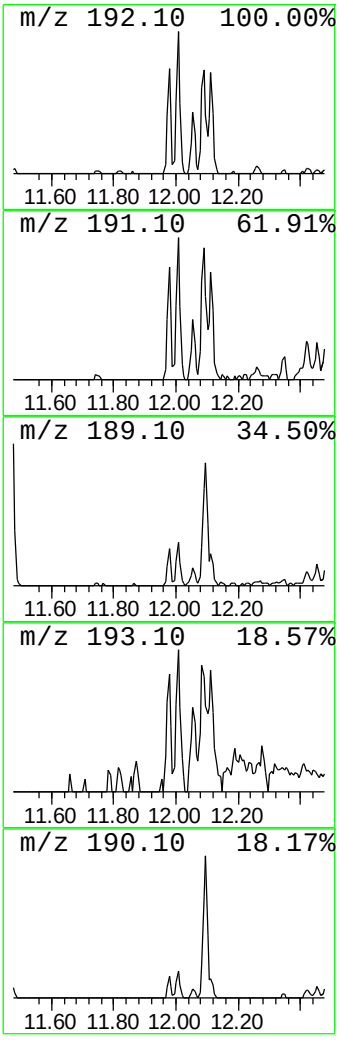
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.07 ng	54260	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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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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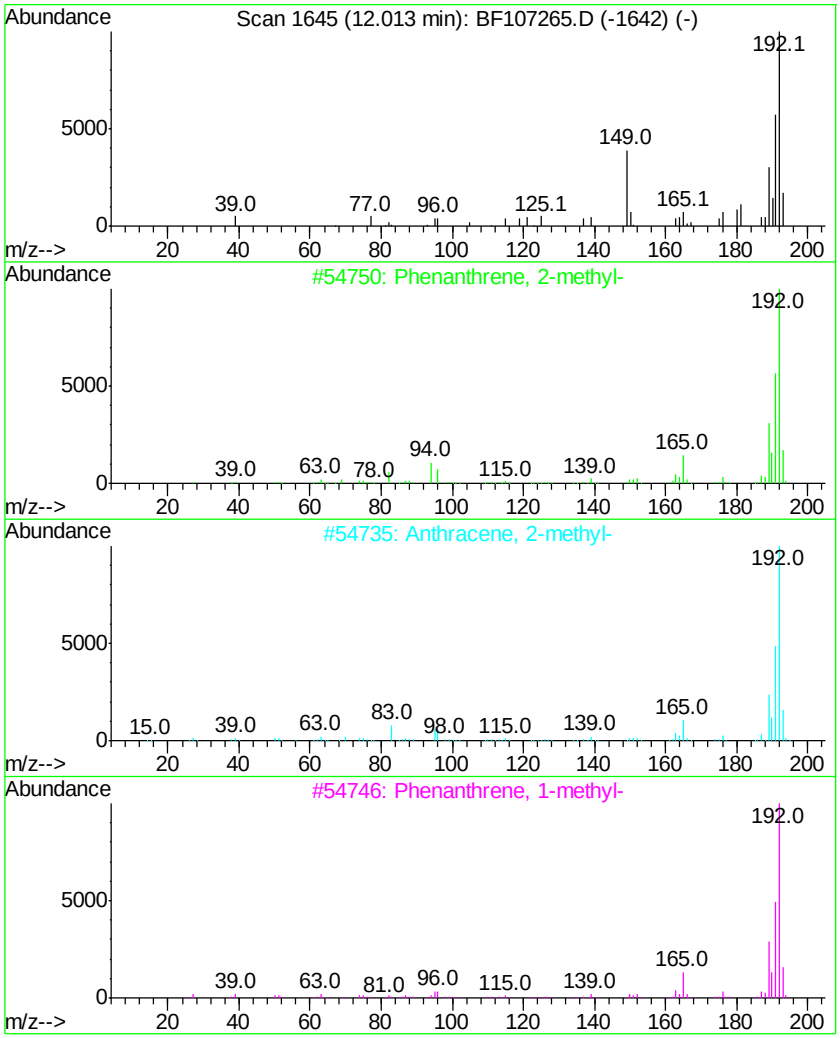
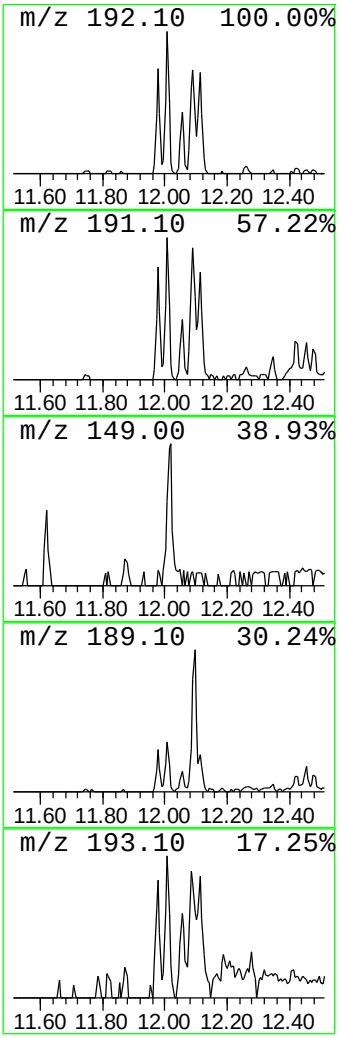
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	4.10 ng	54753	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Library Search Compound Report

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Misc :
ALS Vial : 5 Sample Multiplier: 1

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ClientSampleId : SURCHARGE-SP-4RE

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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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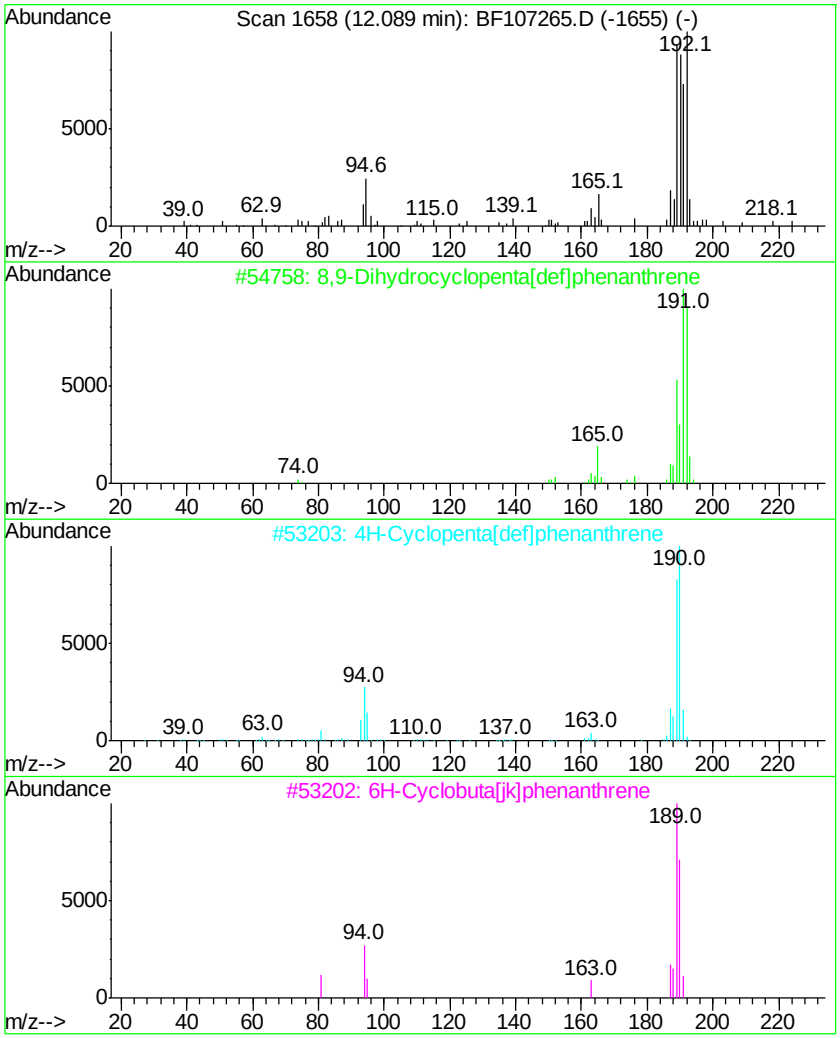
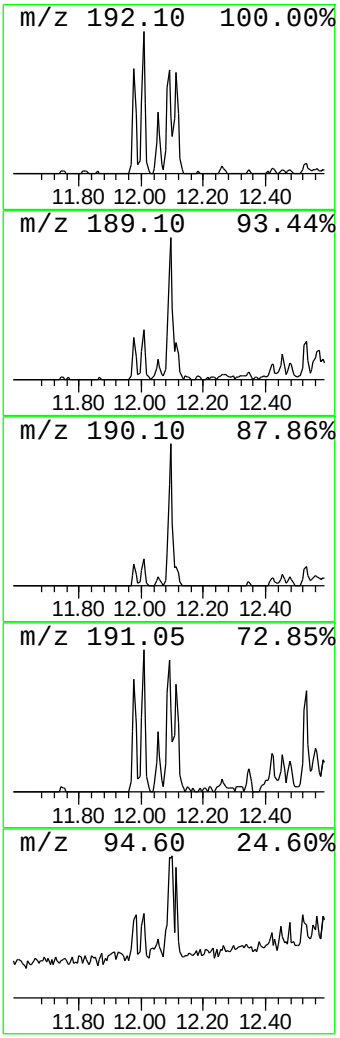
Peak Number 11 unknown12.09 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	6.87 ng	91678	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8,9-Dihydrocyclopenta[def]phenan...	192	C15H12	027410-55-5	49
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46





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Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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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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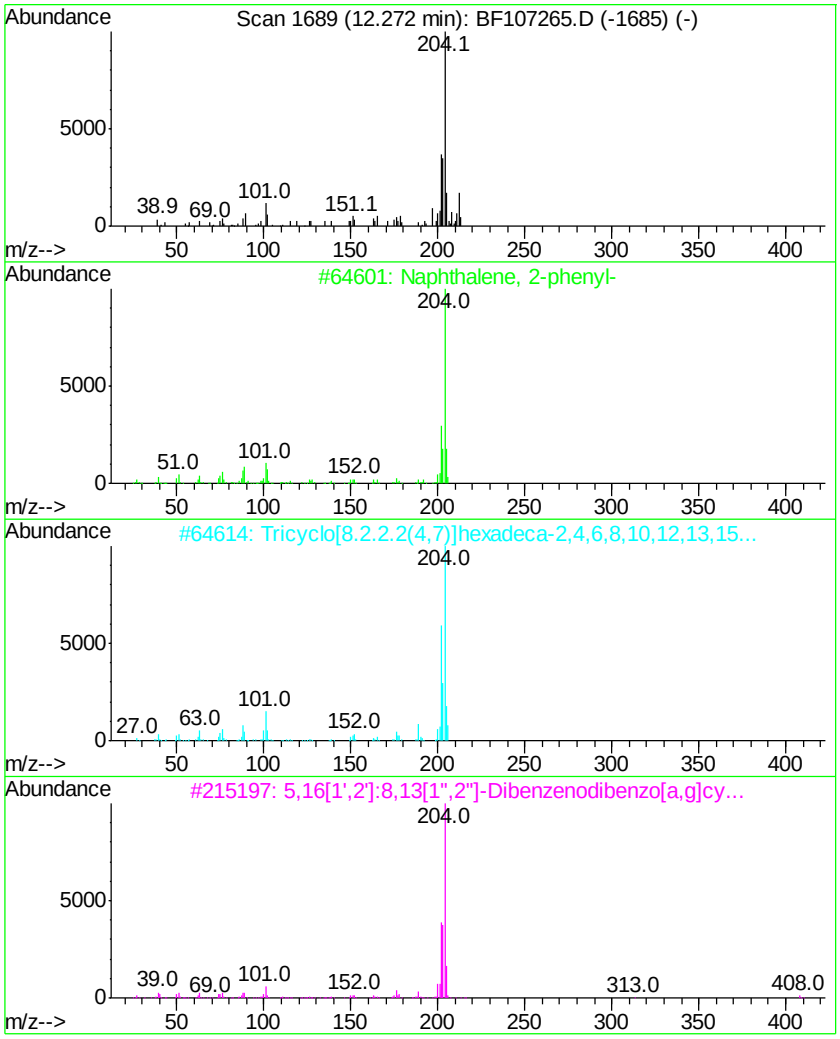
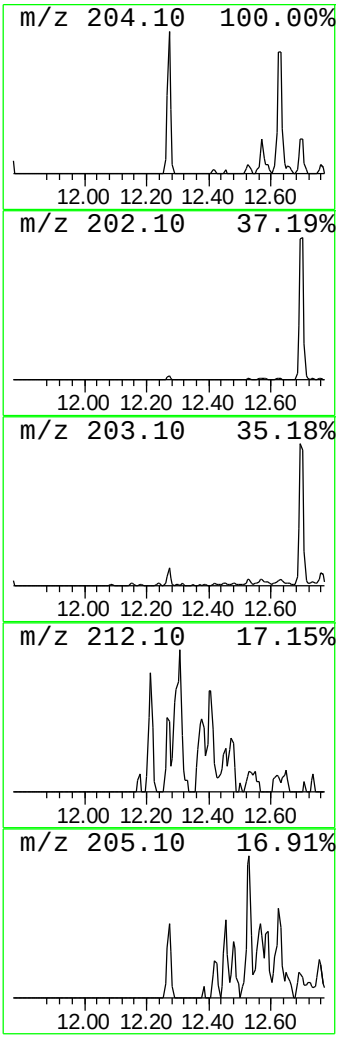
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	3.41 ng	45459	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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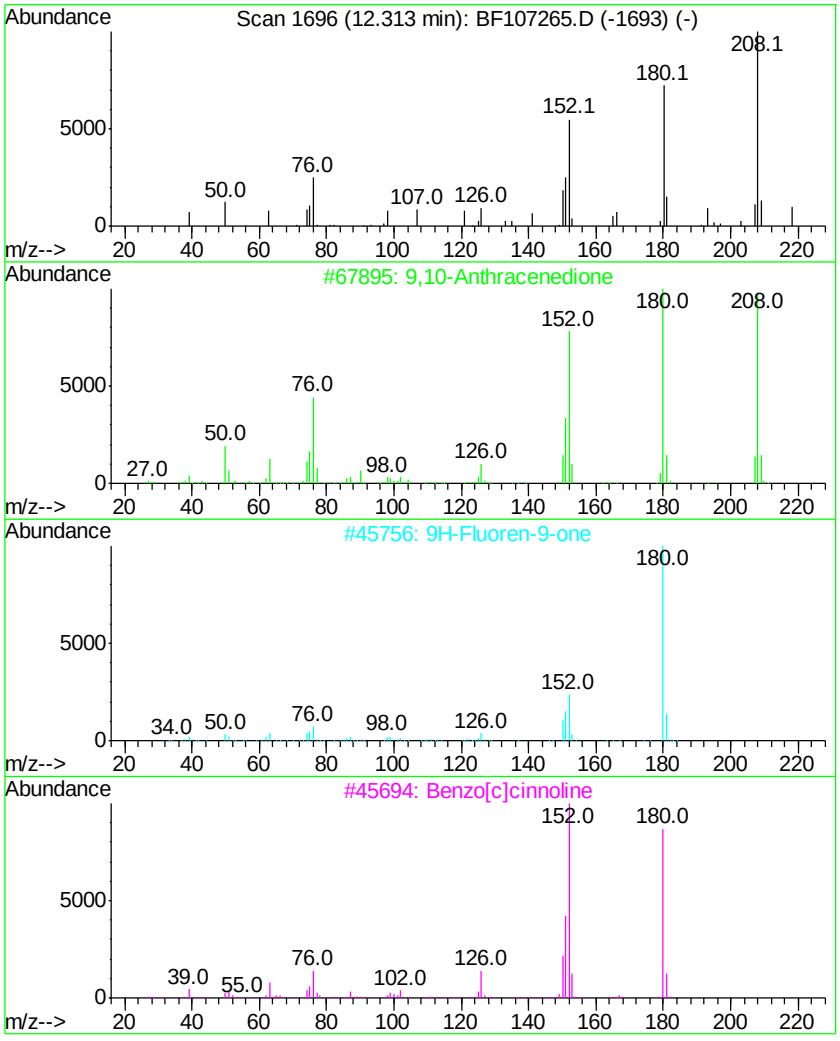
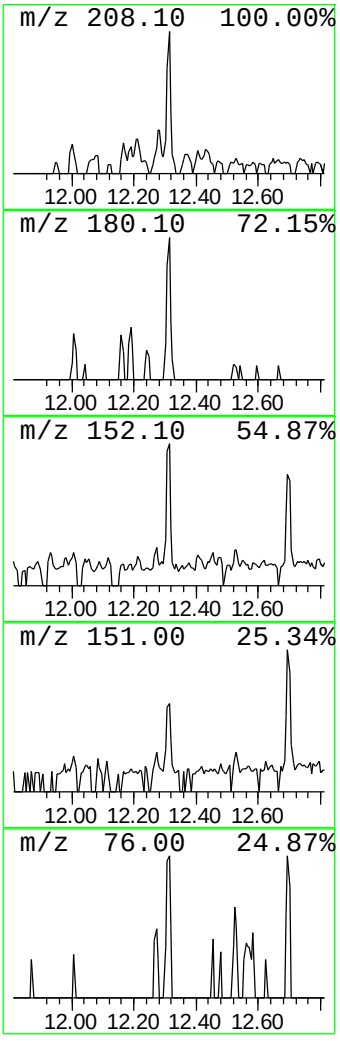
Peak Number 13 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	2.34 ng	31207	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	55
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	46
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	43
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	38





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ClientSampleId : SURCHARGE-SP-4RE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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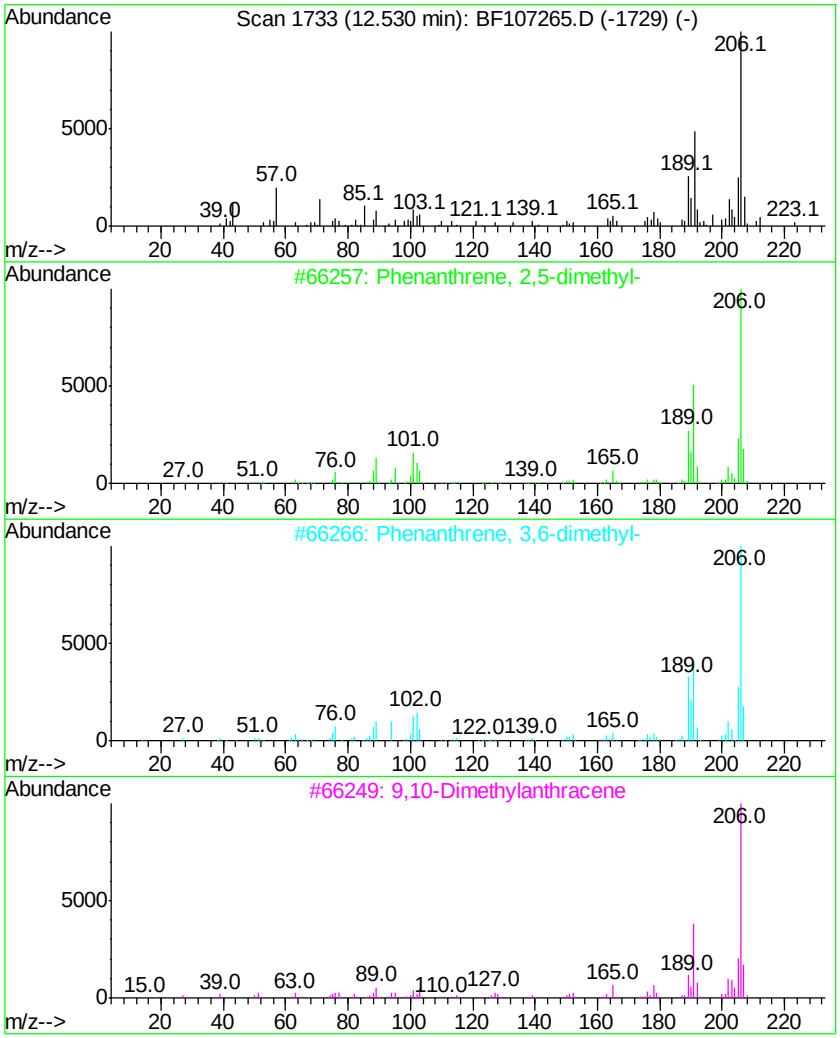
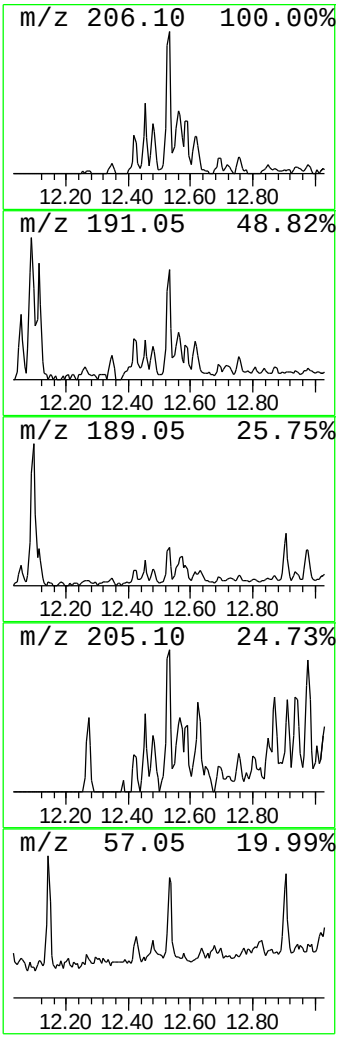
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	5.55 ng	74069	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	92
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	89
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	89





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Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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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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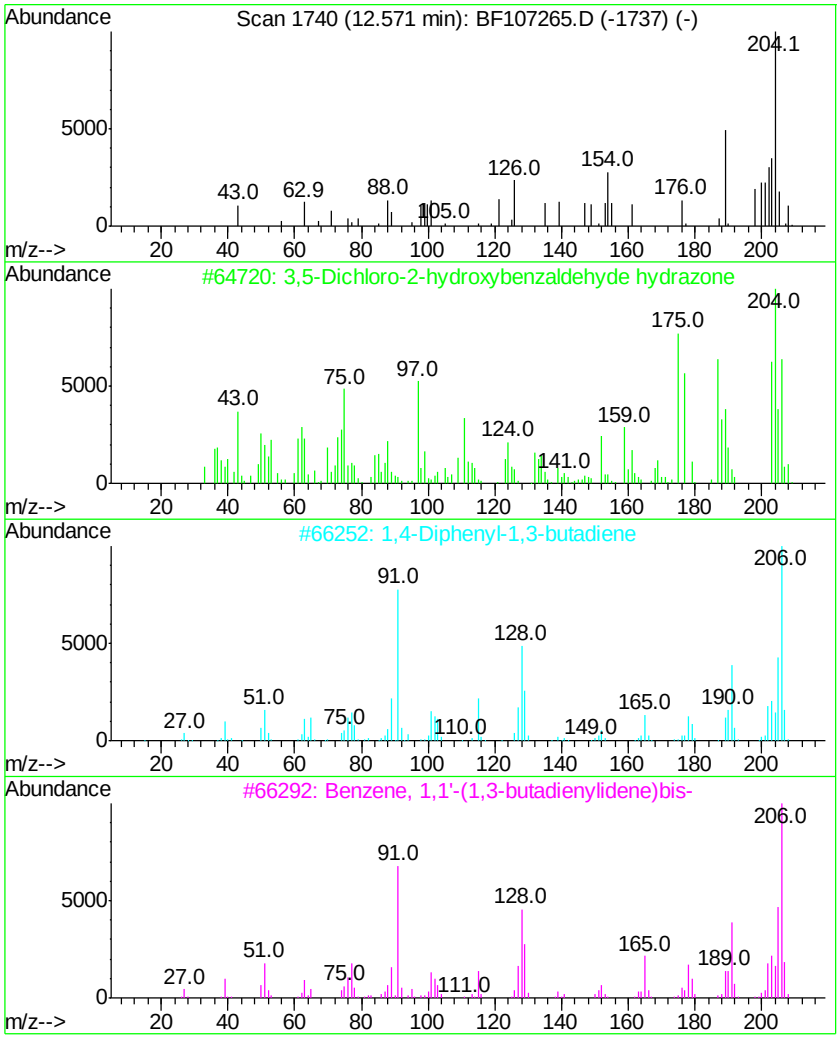
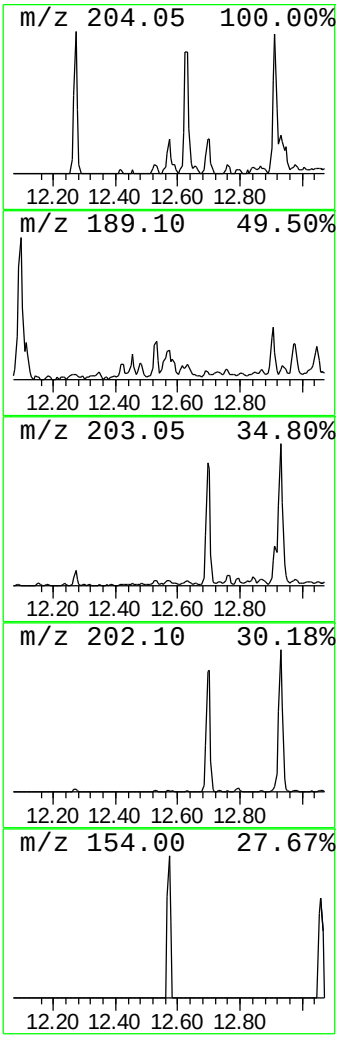
Peak Number 15 unknown12.57 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	2.06 ng	27471	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2-hydroxybenzaldehy...	204	C7H6Cl2N2O	043002-22-8	27
2	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	25
3	Benzene, 1,1'-(1,3-butadienylide...	206	C16H14	004165-81-5	25
4	Benzene, (2-methylene-1-phenylcy...	206	C16H14	025152-47-0	22
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	18





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Sample : J3879-07RE
Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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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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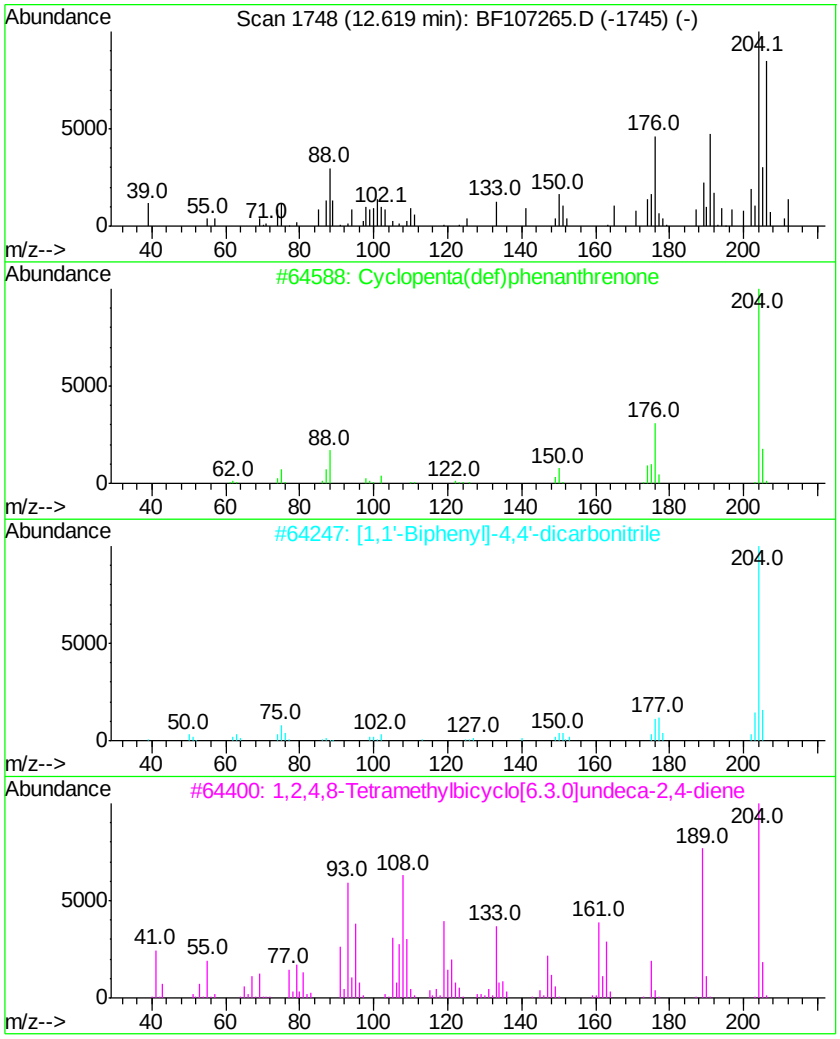
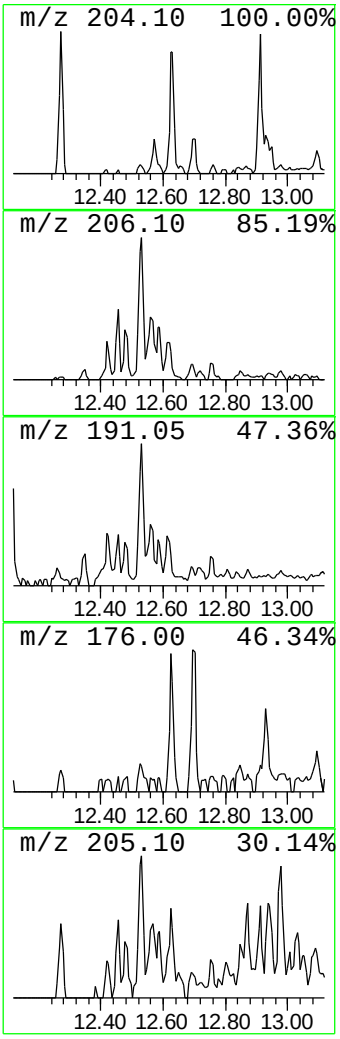
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	5.61 ng	74913	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	50
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	47





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Sample : J3879-07RE
Misc :
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ClientSampleId : SURCHARGE-SP-4RE

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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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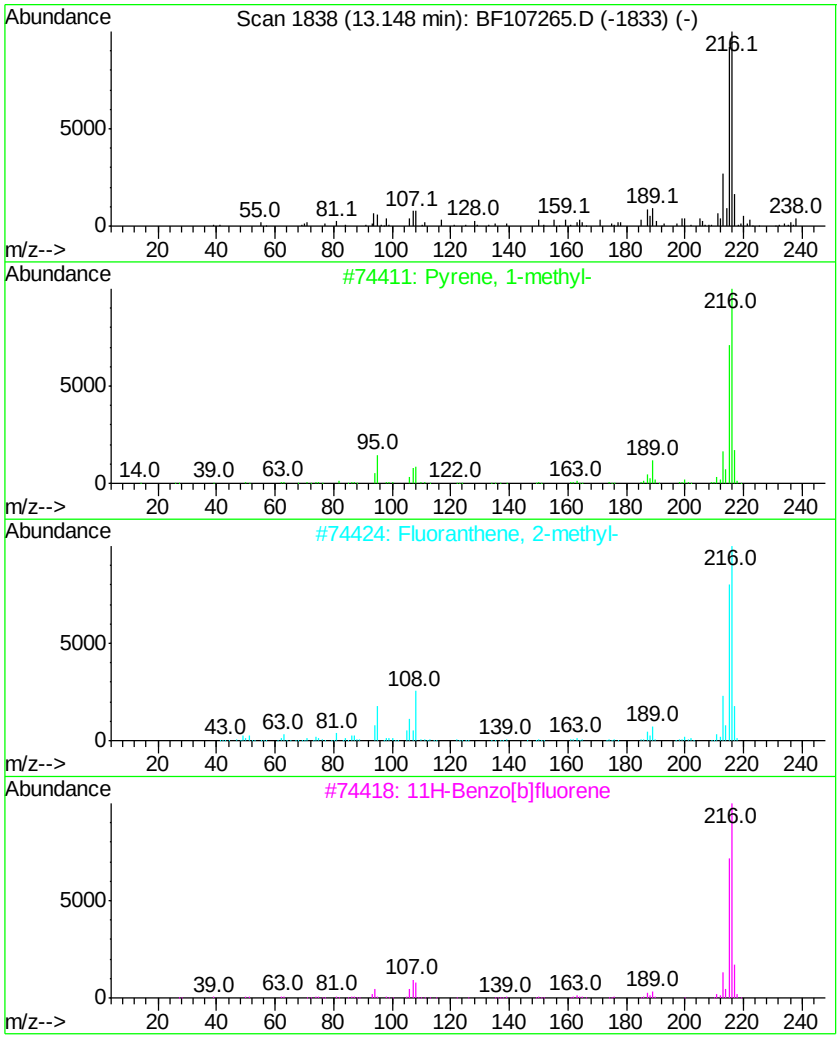
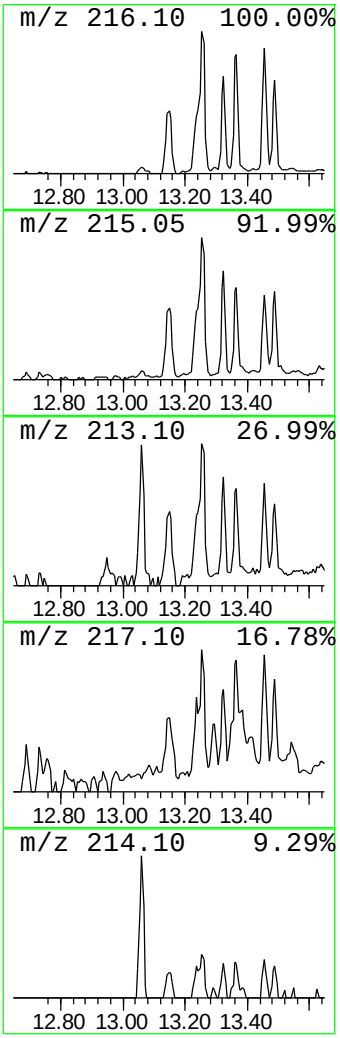
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.90 ng	85489	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	52





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Misc :
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Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

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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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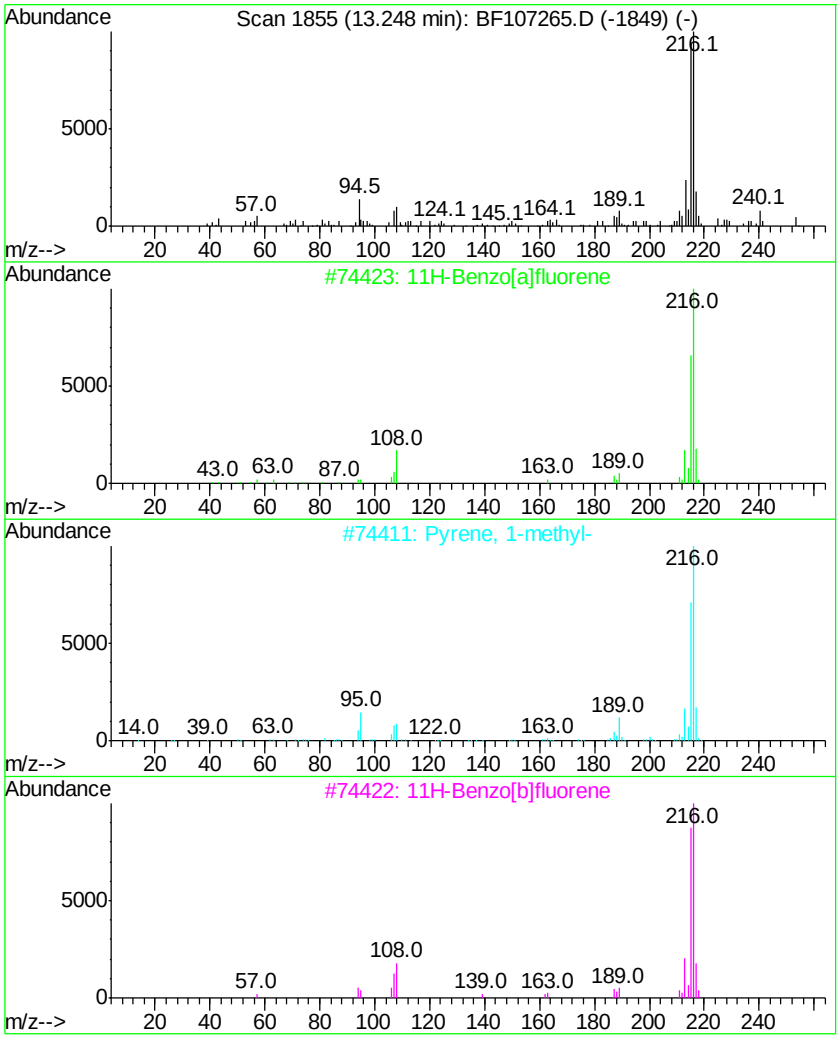
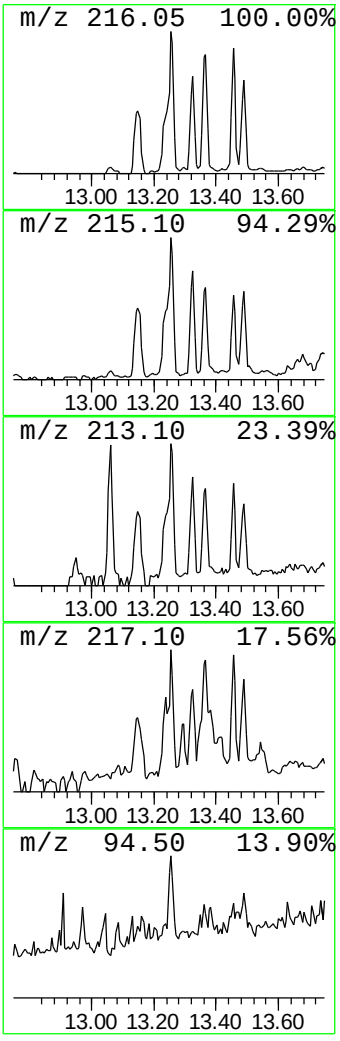
Peak Number 18 11H-Benzo[a]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	5.14 ng	151678	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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ClientSampleId : SURCHARGE-SP-4RE

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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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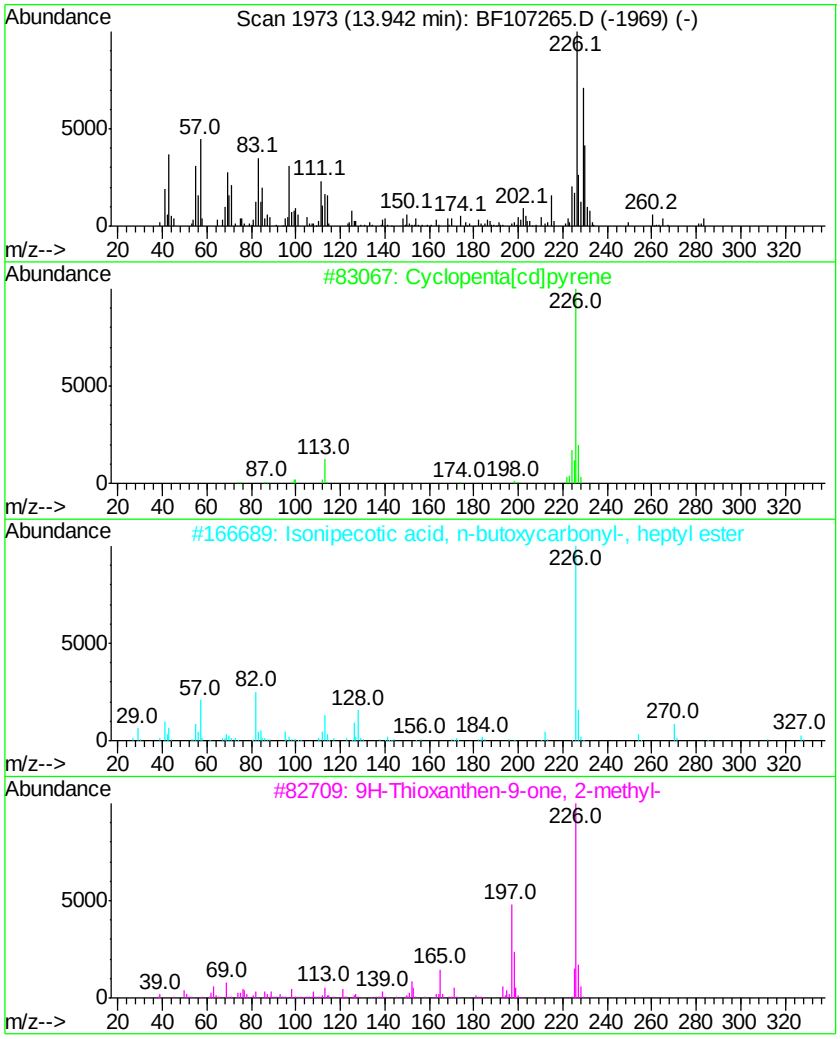
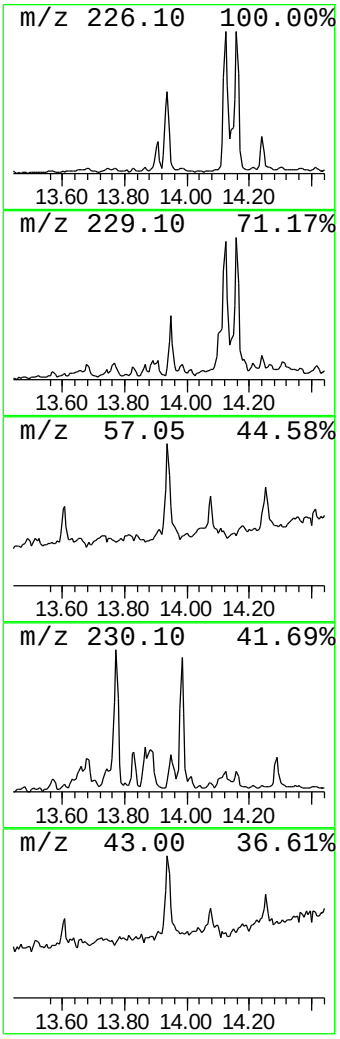
Peak Number 19 Cyclopenta[cd]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	4.45 ng	131381	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	Isonipecotic acid, n-butoxycarbo...	327	C18H33NO4	1000322-05-2	47
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	40
4	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	38
5	Acridin-9-amine, 1,2,3,4-tetrahy...	226	C15H18N2	1000300-57-6	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

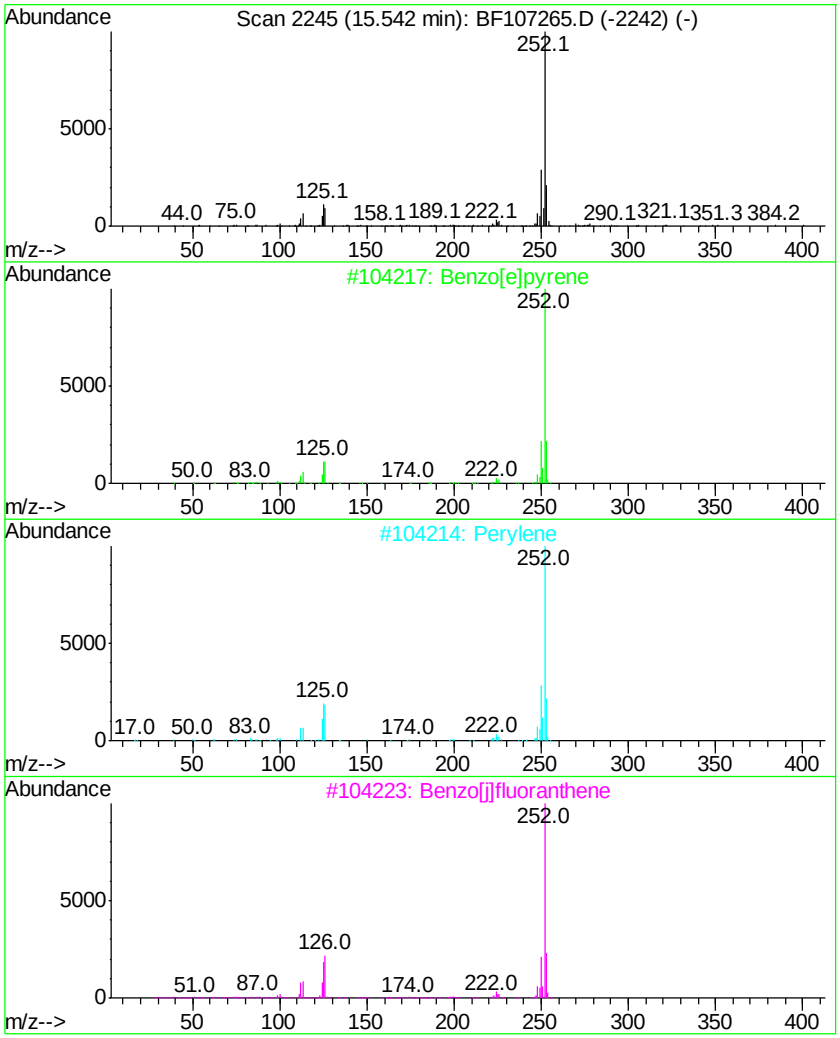
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

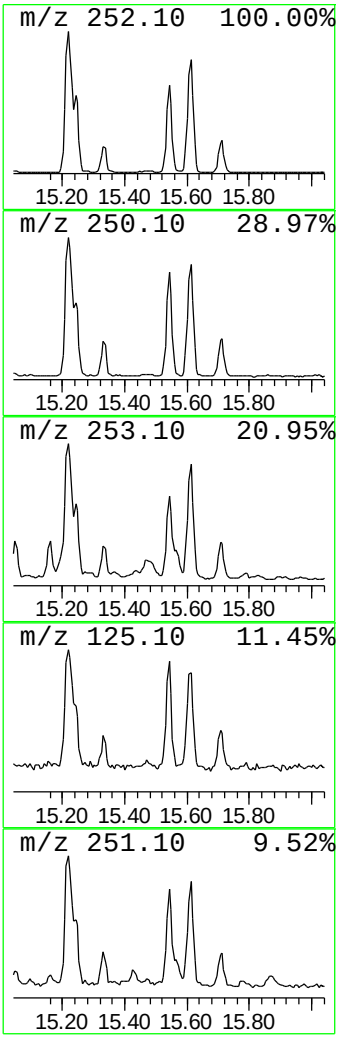
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	12.69 ng	133647	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071018\
Data File : BF107265.D
Acq On : 10 Jul 2018 11:54
Operator : JU/SJ
Sample : J3879-07RE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-4RE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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
2-Pentanone, 4-hy...	5.18	11.4	ng	132970	1	6.94	233189	20.0
unknown6.72	6.72	73.5	ng	856877	1	6.94	233189	20.0
Ethanol, 2-(2-eth...	6.76	3.2	ng	37108	1	6.94	233189	20.0
2,4,7,9-Tetrameth...	9.40	12.0	ng	157631	3	9.98	263544	20.0
Heptadecane, 2,6,...	10.86	2.6	ng	34192	4	11.48	266864	20.0
Anthracene, 2-met...	11.98	4.1	ng	54260	4	11.48	266864	20.0
Phenanthrene, 2-m...	12.01	4.1	ng	54753	4	11.48	266864	20.0
unknown12.09	12.09	6.9	ng	91678	4	11.48	266864	20.0
Naphthalene, 2-ph...	12.27	3.4	ng	45459	4	11.48	266864	20.0
9,10-Anthracenedione	12.31	2.3	ng	31207	4	11.48	266864	20.0
Phenanthrene, 2,5...	12.53	5.5	ng	74069	4	11.48	266864	20.0
unknown12.57	12.57	2.1	ng	27471	4	11.48	266864	20.0
Cyclopenta(def)ph...	12.62	5.6	ng	74913	4	11.48	266864	20.0
Pyrene, 1-methyl-	13.15	2.9	ng	85489	5	14.14	590352	20.0
11H-Benzo[a]fluorene	13.25	5.1	ng	151678	5	14.14	590352	20.0
Cyclopenta[cd]pyrene	13.94	4.5	ng	131381	5	14.14	590352	20.0
Benzo[e]pyrene	15.54	12.7	ng	133647	6	15.68	210626	20.0