LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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	5.160	476	480	493	rVB	112344	131721	14.59%	1.210%
2	5.572	546	550	572	rBV	834352	902820	100.00%	8.295%
3	6.578	717	721	739	rBV	795676	898535	99.53%	8.255%
4	6.707	739	743	747	rBV	980407	859216	95.17%	7.894%
5	6.925	777	780	787	rVB	339425	311782	34.53%	2.864%
6	7.084	803	807	814	rBV	718468	621600	68.85%	5.711%
7	7.495	873	877	887	rBV	489573	478137	52.96%	4.393%
8	7.589	890	893	899	rVB	10992	14323	1.59%	0.132%
9	8.213	995	999	1009	rBV	348957	353454	39.15%	3.247%
10	8.707	1080	1083	1085	rBV	12843	12990	1.44%	0.119%
11	8.736	1085	1088	1090	rVV2	11958	10909	1.21%	0.100%
12	8.889	1110	1114	1117	rVB4	11118	17772	1.97%	0.163%
13	8.931	1117	1121	1127	rBV	33058	44408	4.92%	0.408%
14	9.031	1135	1138	1143	rVB2	20168	26812	2.97%	0.246%
15	9.230	1170	1172	1176	rVB3	13580	14871	1.65%	0.137%
16	9.283	1178	1181	1189	rVV	648307	612455	67.84%	5.627%
17	9.354	1189	1193	1197	rVB4	24359	29874	3.31%	0.274%
18	9.389	1197	1199	1205	rBV4	11642	21966	2.43%	0.202%
19	9.501	1214	1218	1221	rVB4	11157	15761	1.75%	0.145%
20	9.560	1224	1228	1231	rBV3	24042	28813	3.19%	0.265%
21	9.630	1238	1240	1243	rVB3	13207	11933	1.32%	0.110%
22	9.683	1243	1249	1253	rBV	124766	145179	16.08%	1.334%
23	9.748	1258	1260	1267	rVB6	19881	38958	4.32%	0.358%
24	9.825	1270	1273	1278	rVV4	31124	41324	4.58%	0.380%
25	9.872	1278	1281	1284	rVB2	34810	33454	3.71%	0.307%
26	9.948	1291	1294	1295	rBV3	21441	21954	2.43%	0.202%
27	9.977	1295	1299	1301	rVV	309547	301187	33.36%	2.767%
28	10.007	1301	1304	1311	rVB	218727	199205	22.06%	1.830%
29	10.083	1313	1317	1320	rVB3	15247	21014	2.33%	0.193%
30	10.130	1322	1325	1329	rVB2	12861	14226	1.58%	0.131%
31	10.219	1337	1340	1343	rVB2	11330	11391	1.26%	0.105%
32	10.289	1348	1352	1355	rBV3	28772	45856	5.08%	0.421%
33	10.372	1363	1366	1369	rBV3	27537	26872	2.98%	0.247%
34	10.401	1369	1371	1373	rBV2	12654	10886	1.21%	0.100%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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	10.448	1377	1379	1385	rVB5	14806	25251	2.80%	0.232%
36	10.530	1389	1393	1398	rVB	51168	60375	6.69%	0.555%
37	10.589	1400	1403	1408	rVB4	43883	58127	6.44%	0.534%
38	10.777	1431	1435	1444	rVB	421685	479252	53.08%	4.403%
39	10.866	1447	1450	1458	rVB8	43355	67268	7.45%	0.618%
40	10.960	1463	1466	1468	rBV2	24168	27623	3.06%	0.254%
41	11.107	1488	1491	1494	rBV3	53423	57150	6.33%	0.525%
42	11.189	1502	1505	1506	rBV2	21932	20788	2.30%	0.191%
43	11.272	1516	1519	1521	rBV2	21214	26313	2.91%	0.242%
44	11.372	1534	1536	1539	rVB	33530	26414	2.93%	0.243%
45	11.472	1550	1553	1556	rBV	346547	338214	37.46%	3.107%
46	11.495	1556	1557	1560	rVB	109197	82999	9.19%	0.763%
47	11.554	1564	1567	1569	rBV	45811	39175	4.34%	0.360%
48	11.654	1582	1584	1586	rVB2	27996	17635	1.95%	0.162%
49	11.801	1607	1609	1618	rVB4	45732	66957	7.42%	0.615%
50	11.930	1629	1631	1635	rVB4	41597	39181	4.34%	0.360%
51	11.977	1636	1639	1642	rBV3	37589	57366	6.35%	0.527%
52	12.095	1656	1659	1661	rBV2	59151	55716	6.17%	0.512%
53	12.477	1722	1724	1727	rVB	59449	49939	5.53%	0.459%
54	12.530	1730	1733	1735	rBV	71299	86755	9.61%	0.797%
55	12.695	1758	1761	1764	rBV	217726	200669	22.23%	1.844%
56	12.930	1795	1801	1806	rBV2	289899	369234	40.90%	3.392%
57	12.977	1806	1809	1812	rBV	82791	88515	9.80%	0.813%
58	13.060	1819	1823	1826	rBV	756512	667171	73.90%	6.130%
59	13.460	1888	1891	1893	rBV	127129	126188	13.98%	1.159%
60	13.489	1894	1896	1898	rVV	103017	85023	9.42%	0.781%
61	13.830	1952	1954	1958	rVB	116414	102323	11.33%	0.940%
62	13.865	1958	1960	1962	rBV	116730	103277	11.44%	0.949%
63	13.889	1962	1964	1970	rVB3	85406	108519	12.02%	0.997%
64	14.142	2002	2007	2010	rBV2	455043	528092	58.49%	4.852%
65	15.695	2268	2271	2276	rVB	219100	275283	30.49%	2.529%
66	16.842	2463	2466	2476	rVB2	106064	216051	23.93%	1.985%

Sum of corrected areas: 10884501

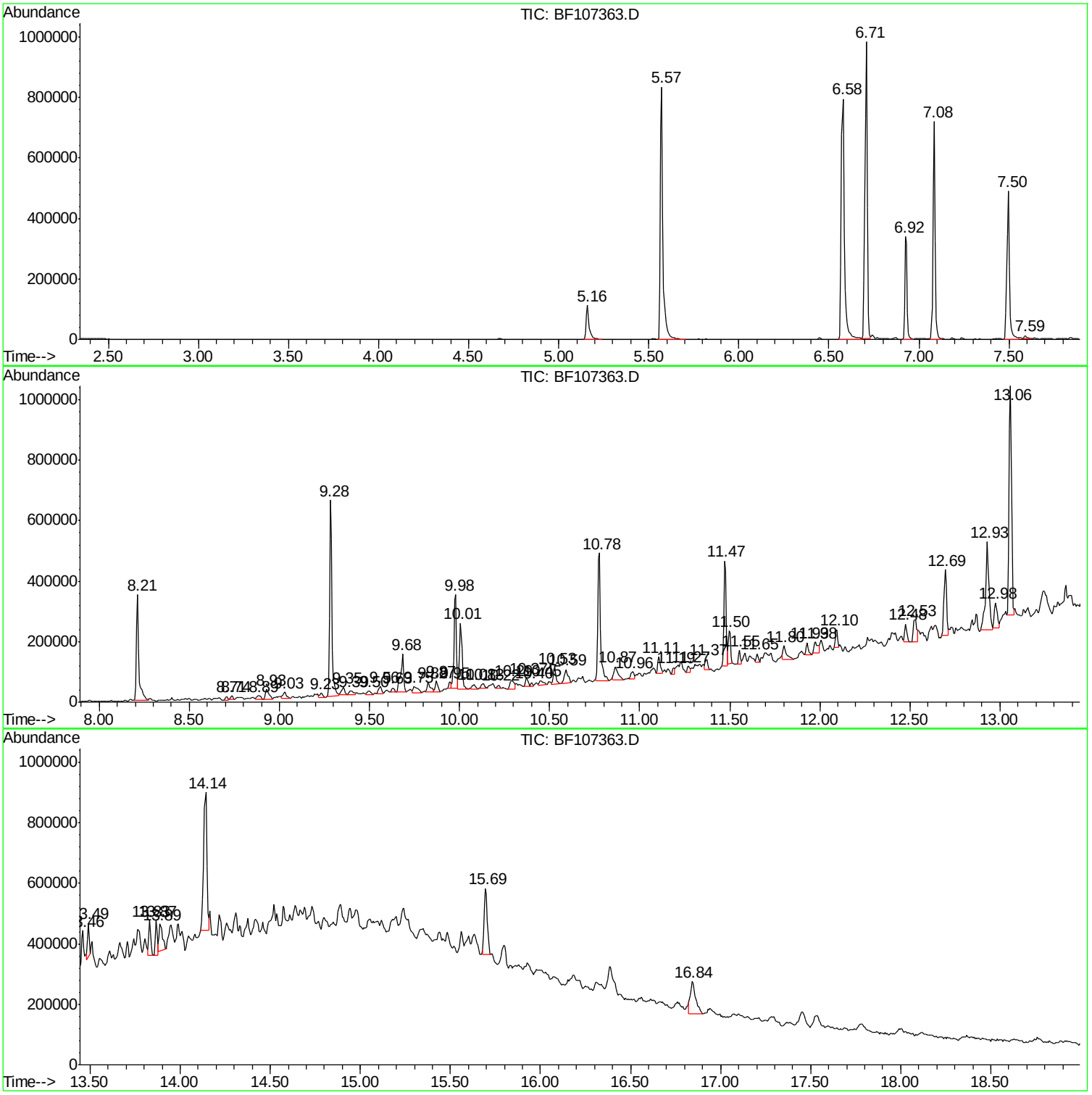
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
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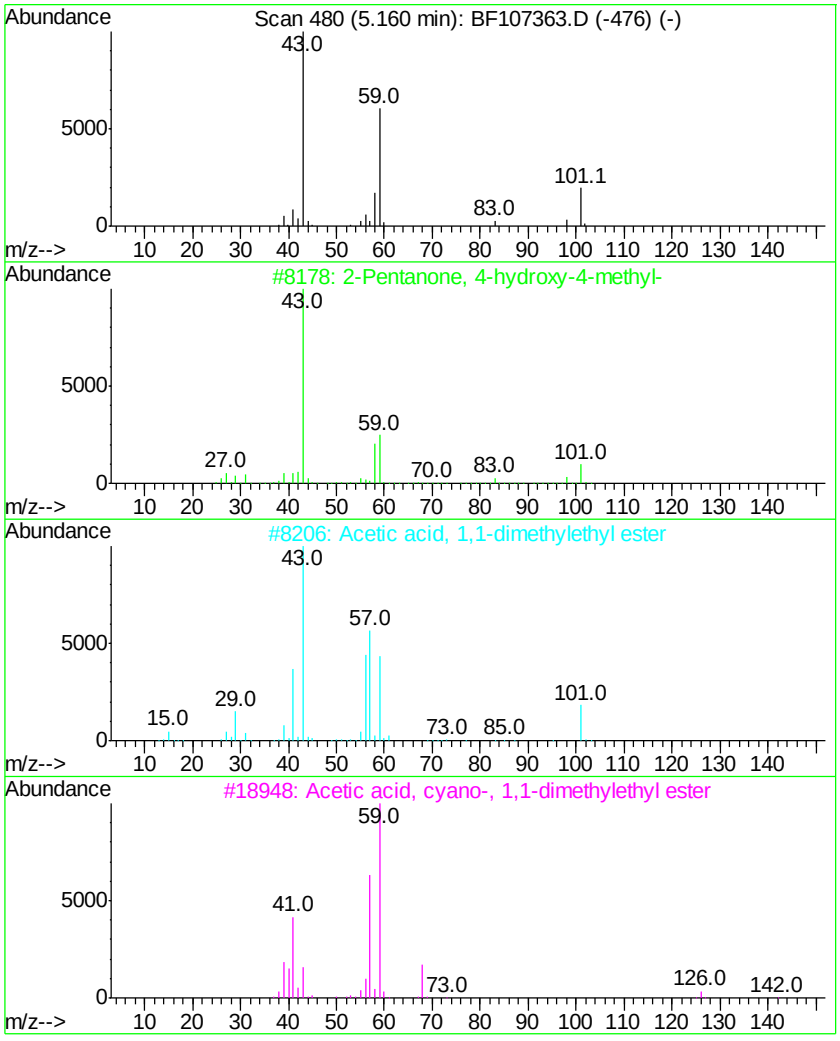
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

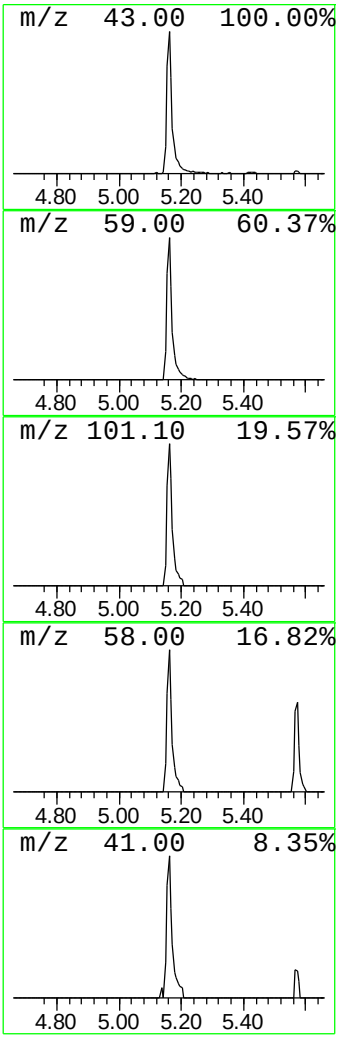
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.16	8.45 ng	131721	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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

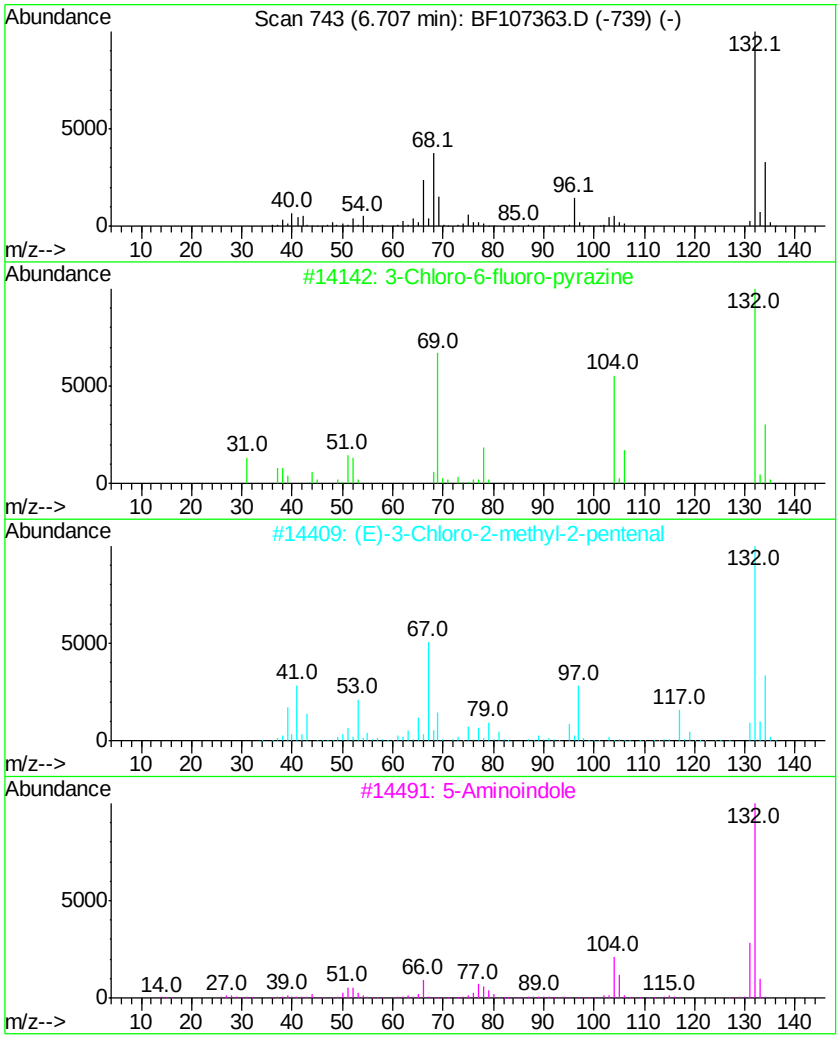
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

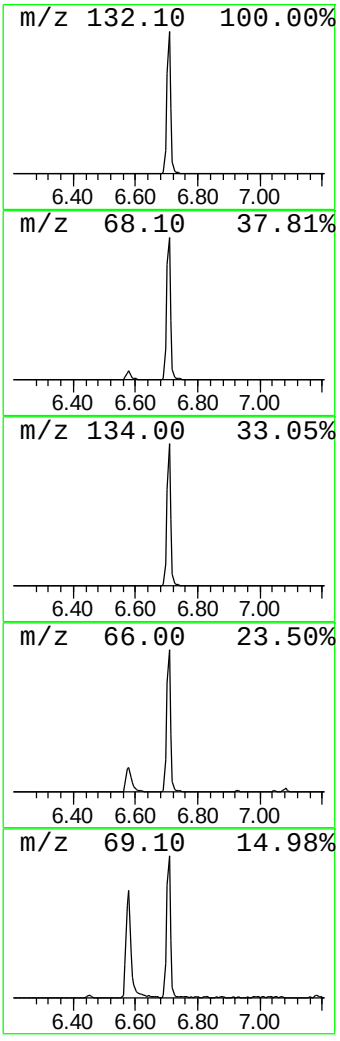
****

Peak Number 2 unknown6.71 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	55.12 ng	859216	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
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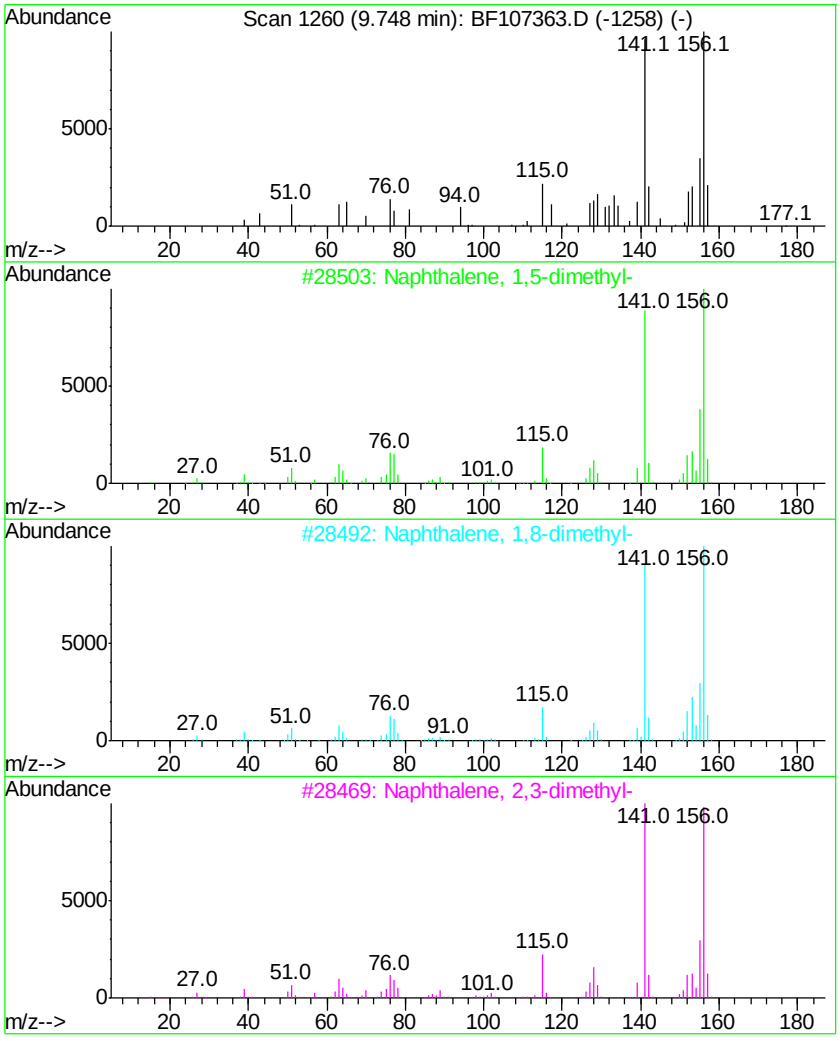
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

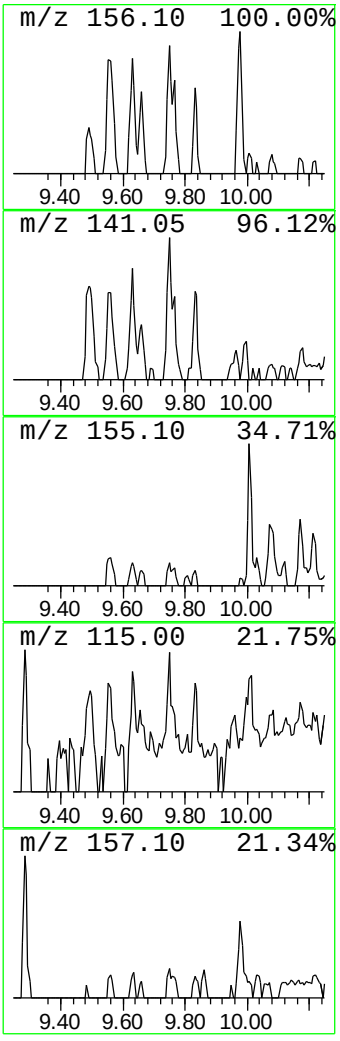
****

Peak Number 4 Naphthalene, 1,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	2.59 ng	38958	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	76
2	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	76
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	76
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	70
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	68





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
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Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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
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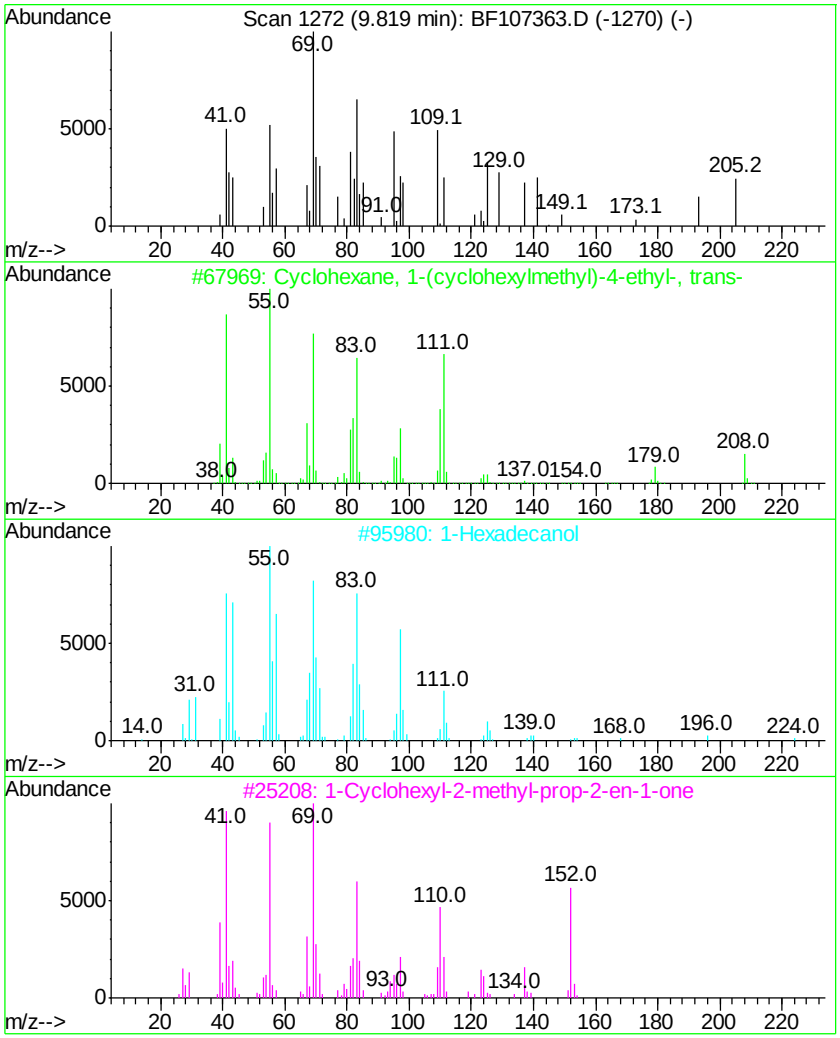
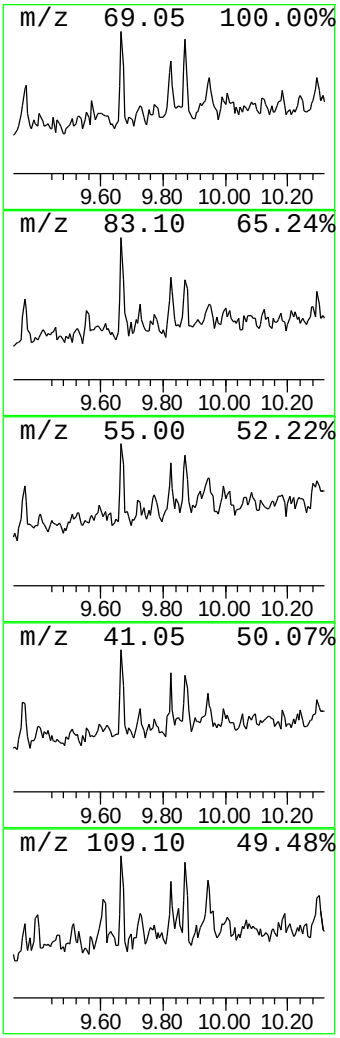
****

Peak Number 5 unknown9.82 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.82	2.74 ng	41324	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-(cyclohexylmethyl...	208	C15H28	054934-94-0	30
2	1-Hexadecanol	242	C16H34O	036653-82-4	30
3	1-Cyclohexyl-2-methyl-prop-2-en-...	152	C10H16O	025183-82-8	27
4	Cyclotetradecane	196	C14H28	000295-17-0	27
5	1-Piperidinyloxy, 2,2,6,6-tetram...	156	C9H18NO	002564-83-2	25





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Data File : BF107363.D
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Sample : J3947-07
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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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

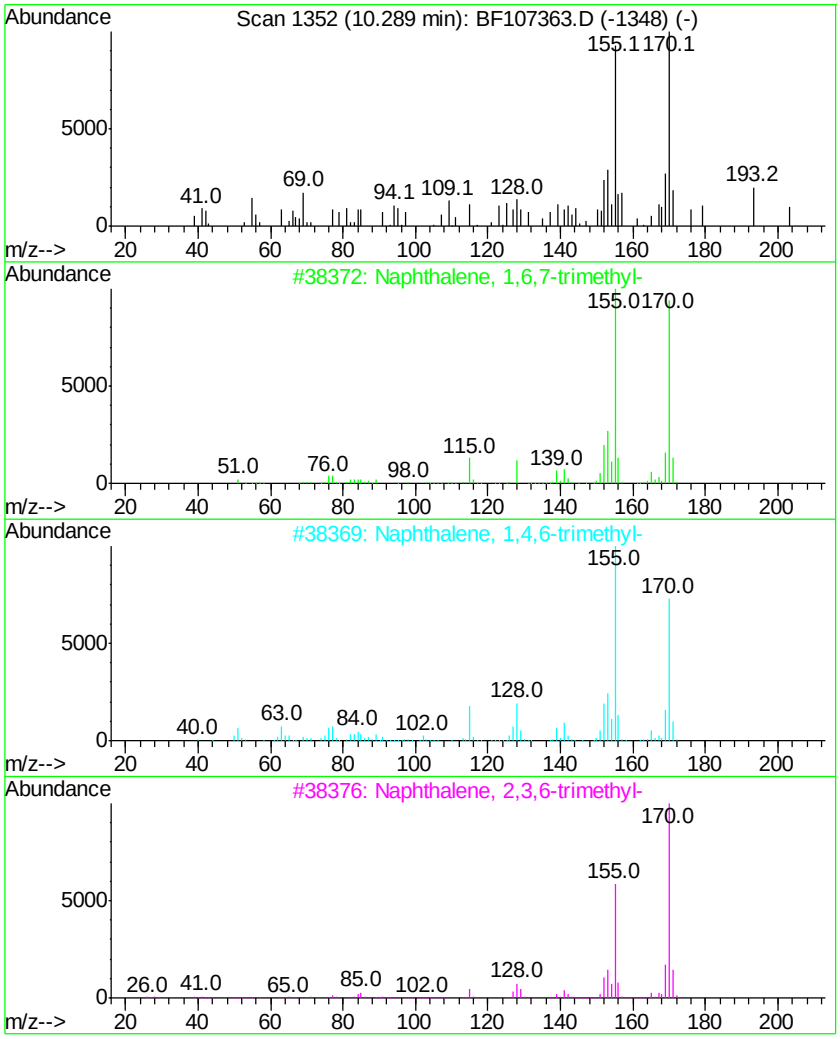
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

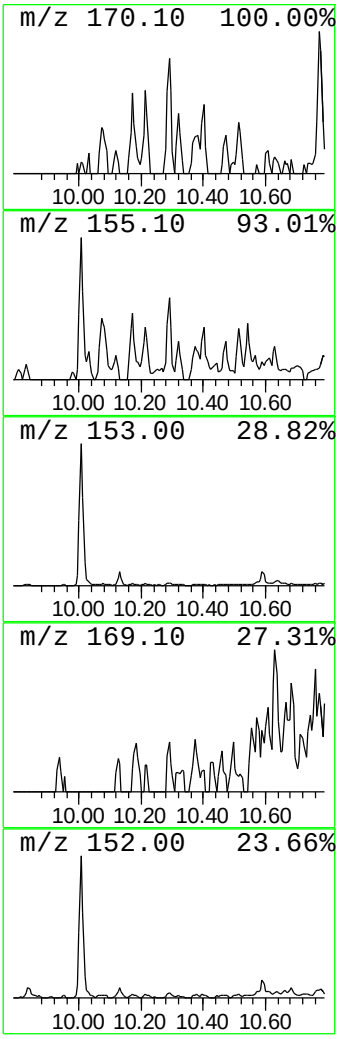
****

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.29	3.05 ng	45856	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	90
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	81
4	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	81
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	76





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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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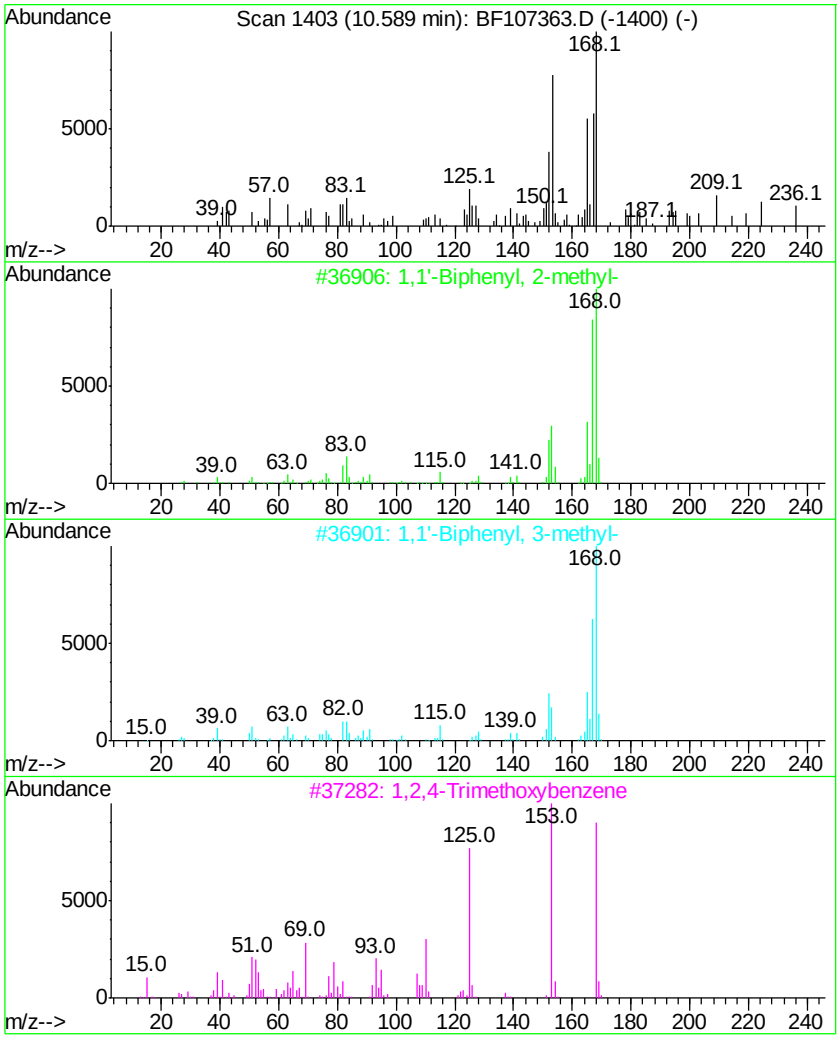
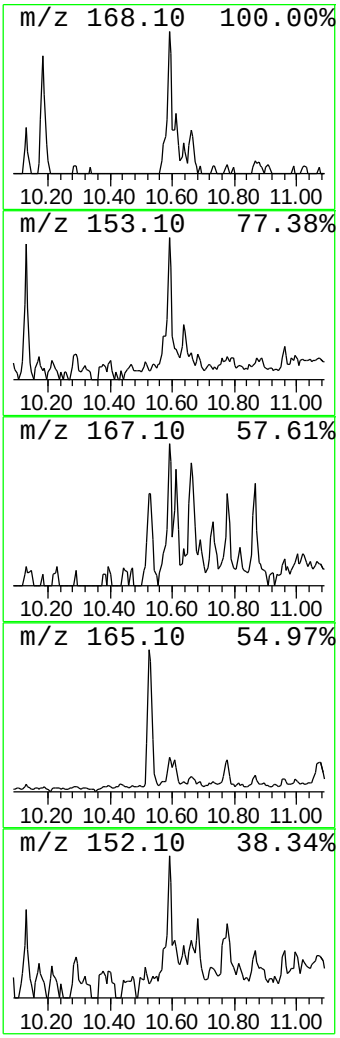
Peak Number 7 unknown10.59 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	3.86 ng	58127	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	38
2	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	38
3	1,2,4-Trimethoxybenzene	168	C9H12O3	000135-77-3	38
4	Benzeneacetonitrile, 2,5-difluoro-	153	C8H5F2N	069584-87-8	27
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	27





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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

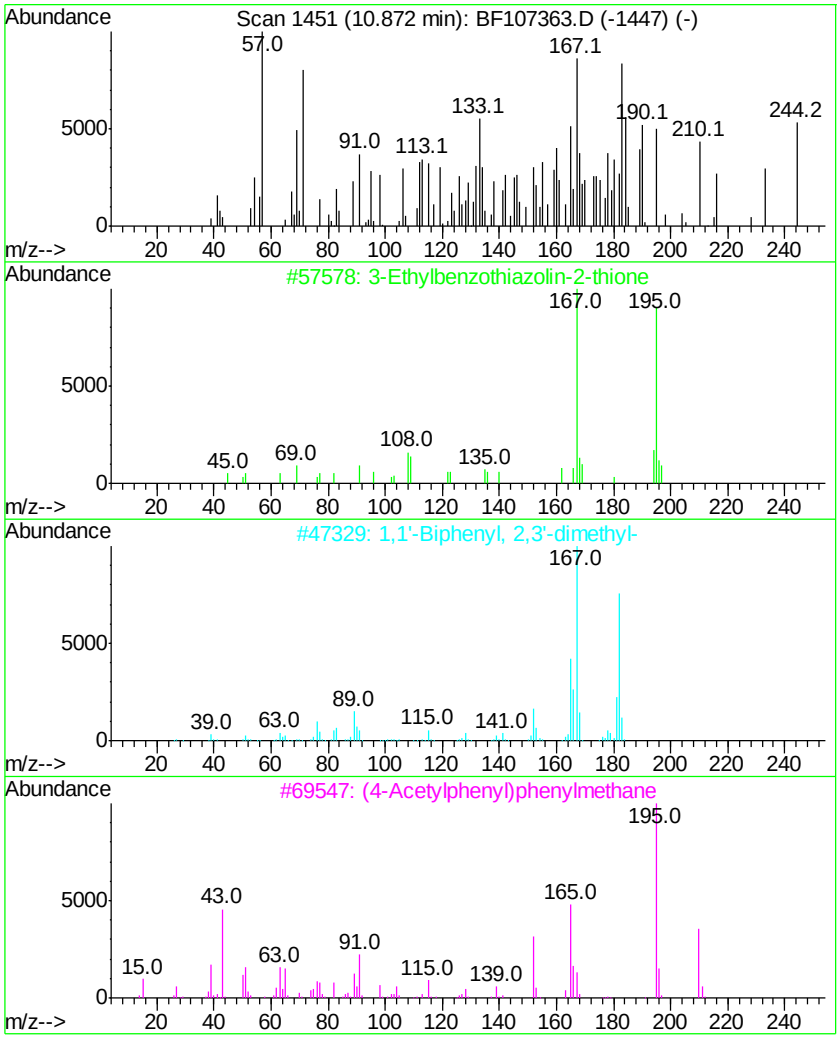
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

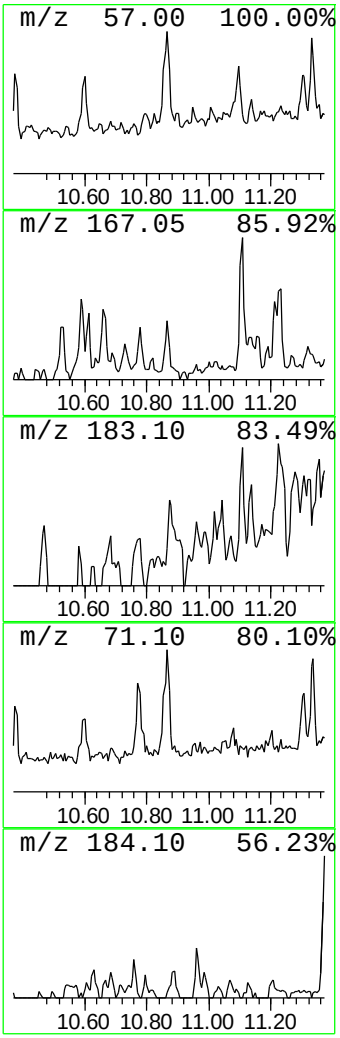
****

Peak Number 8 unknown10.87 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	3.98 ng	67268	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethylbenzothiazolin-2-thione	195	C9H9NS2	016407-34-4	30
2	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	22
3	(4-Acetylphenyl)phenylmethane	210	C15H14O	000782-92-3	22
4	Benzene, 1-methyl-4-(phenylmethyl)-	182	C14H14	000620-83-7	22
5	Silane, dimethyl(3-methylphenoxy...	210	C11H18O2Si	1000347-33-4	22





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Operator : JU/SJ
Sample : J3947-07
Misc :
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Instrument : BNA_F
ClientSampleId : PAR-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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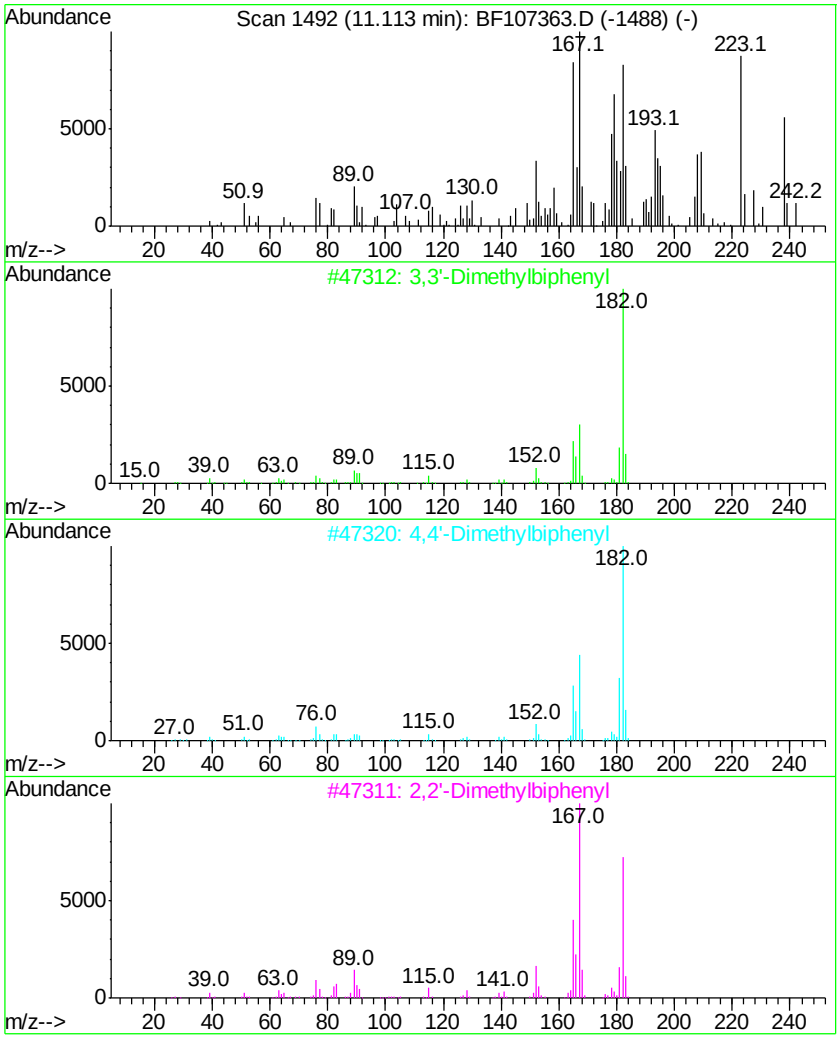
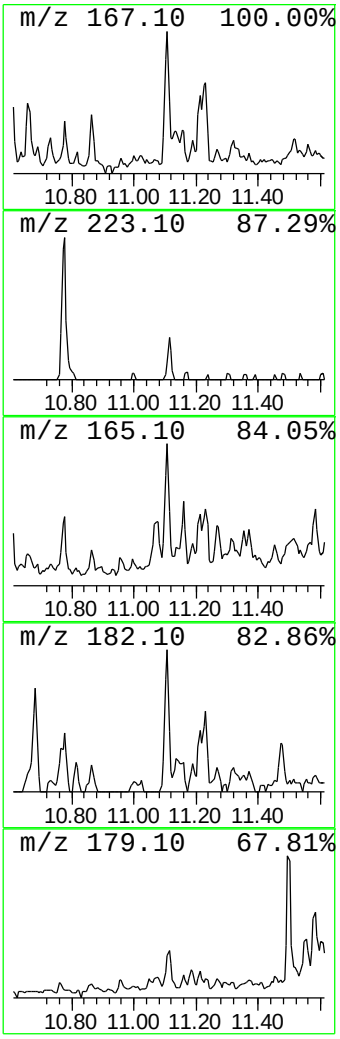
Peak Number 9 3,3'-Dimethylbiphenyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	3.38 ng	57150	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	64
2	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	62
3	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	60
4	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	60
5	1,1'-Biphenyl, 2,4'-dimethyl-	182	C14H14	000611-61-0	60





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Misc :
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Instrument : BNA_F
ClientSampleId : PAR-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

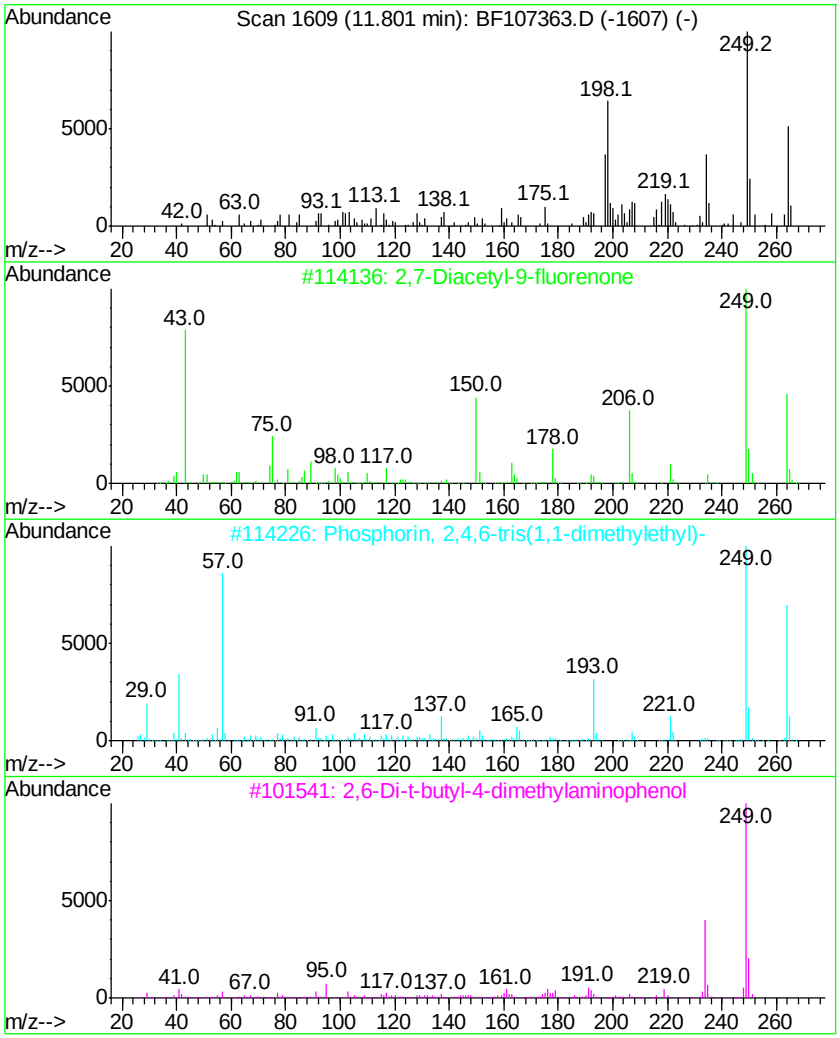
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

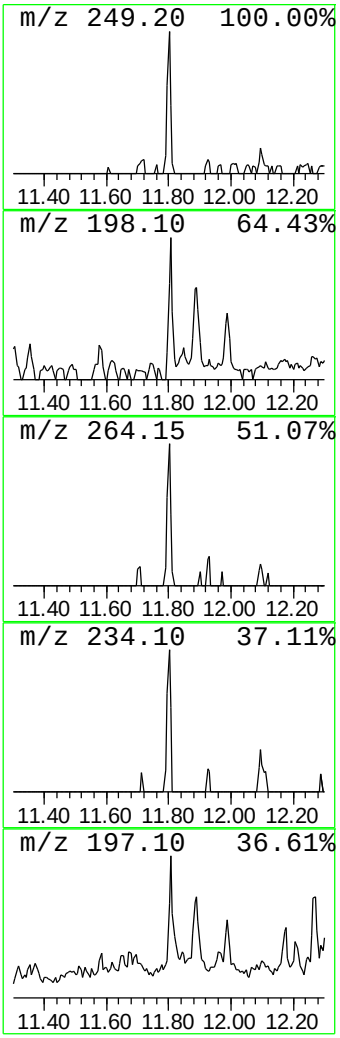
****

Peak Number 10 unknown11.80 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	3.96 ng	66957	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,7-Diacetyl-9-fluorenone	264	C17H12O3	039665-89-9	49
2	Phosphorin, 2,4,6-tris(1,1-dimet...	264	C17H29P	017420-29-0	46
3	2,6-Di-t-butyl-4-dimethylaminoph...	249	C16H27NO	010437-44-2	43
4	Phenothiazin-2-ol, 8-chloro-	249	C12H8ClNOS	005909-61-5	30
5	Cinchophen	249	C16H11NO2	000132-60-5	30





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ALS Vial : 10 Sample Multiplier: 1

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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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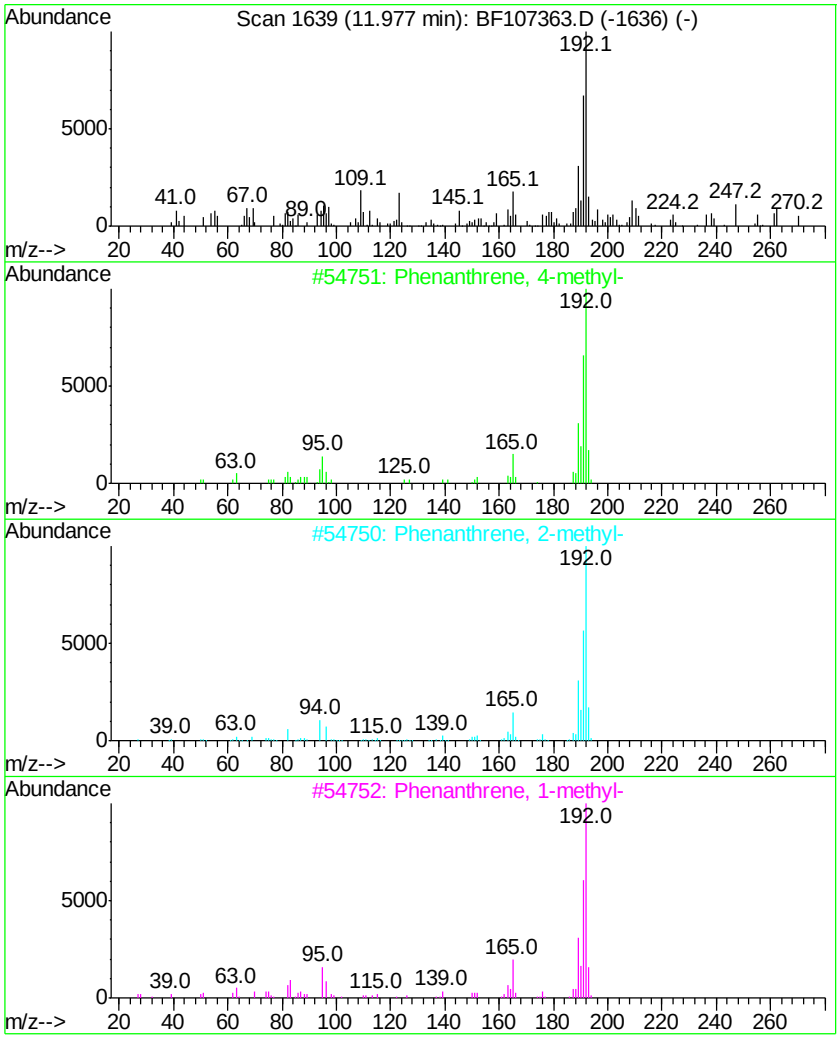
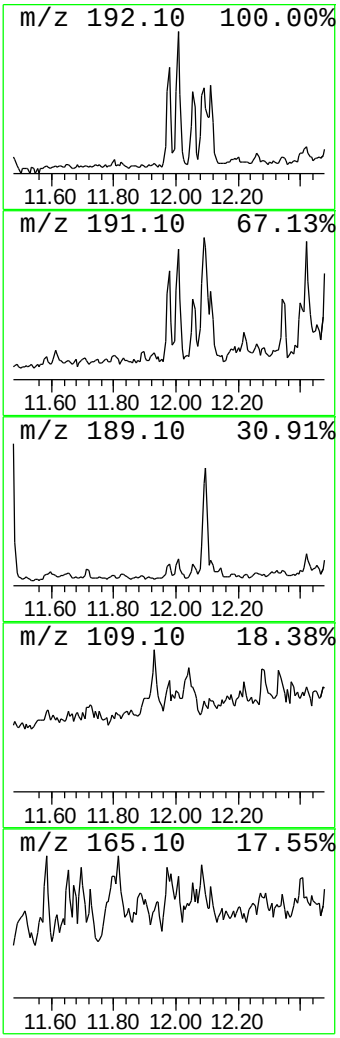
Peak Number 11 Phenanthrene, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	3.39 ng	57366	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	78
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	60
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60





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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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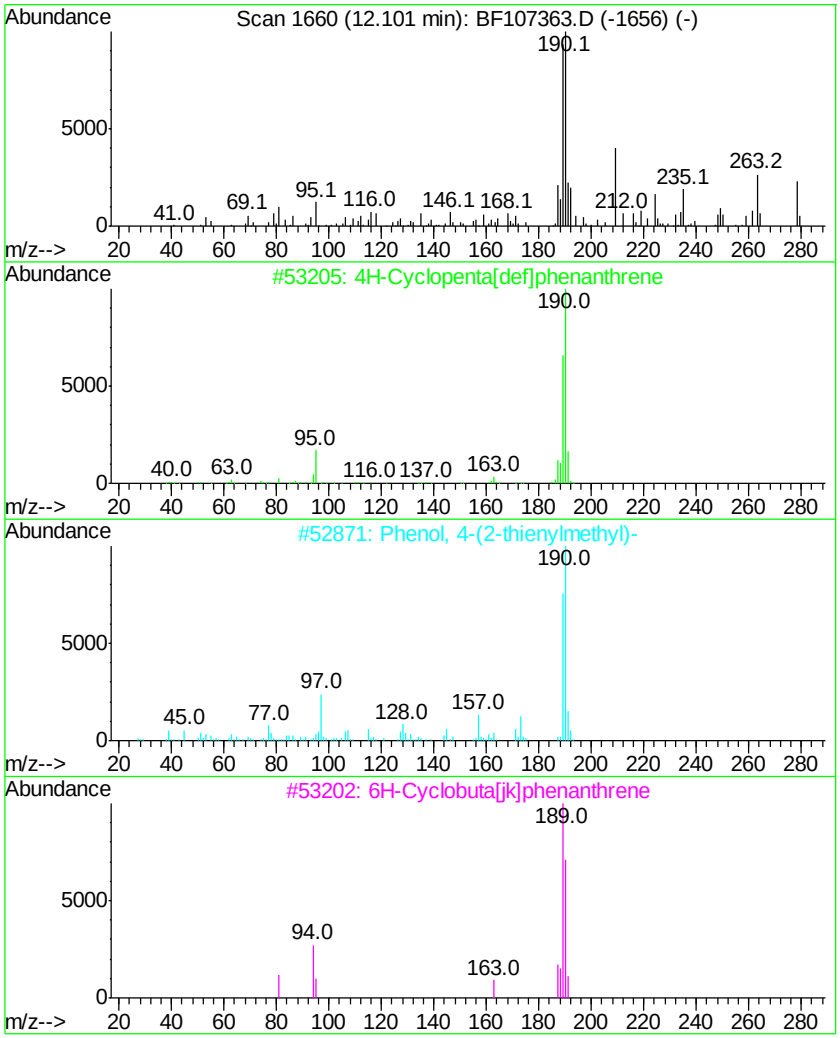
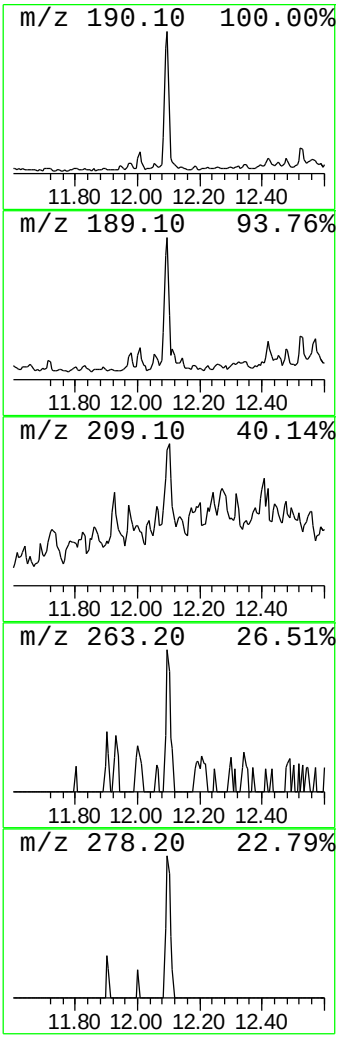
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	3.29 ng	55716	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
2	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	50
5	Benzo[1,2-b:3,4-b']dithiophene	190	C10H6S2	000211-02-9	27





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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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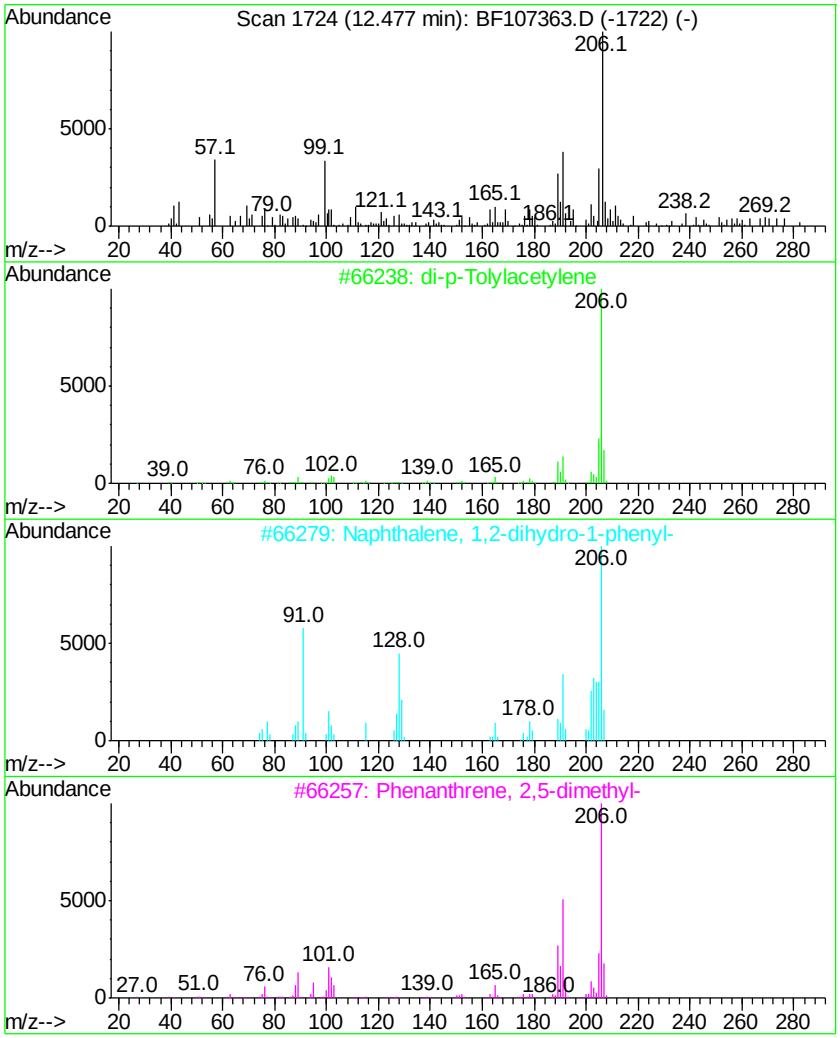
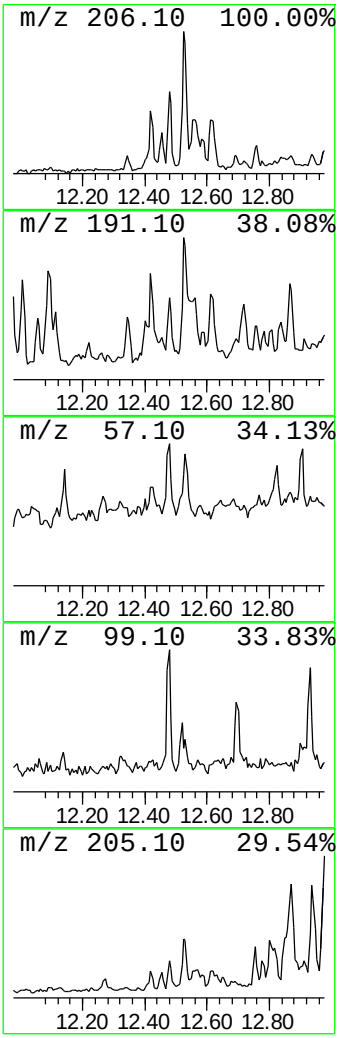
Peak Number 13 di-p-Tolylacetylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	2.95 ng	49939	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
2	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	86
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	68
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	64
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	64





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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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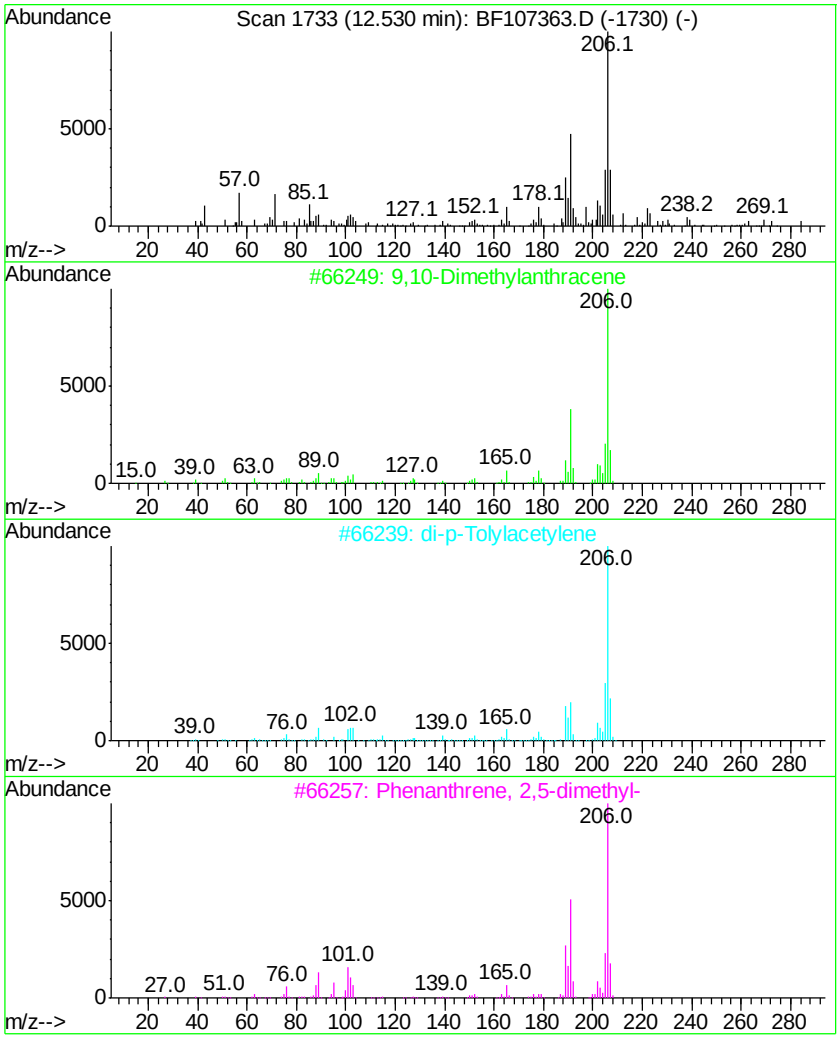
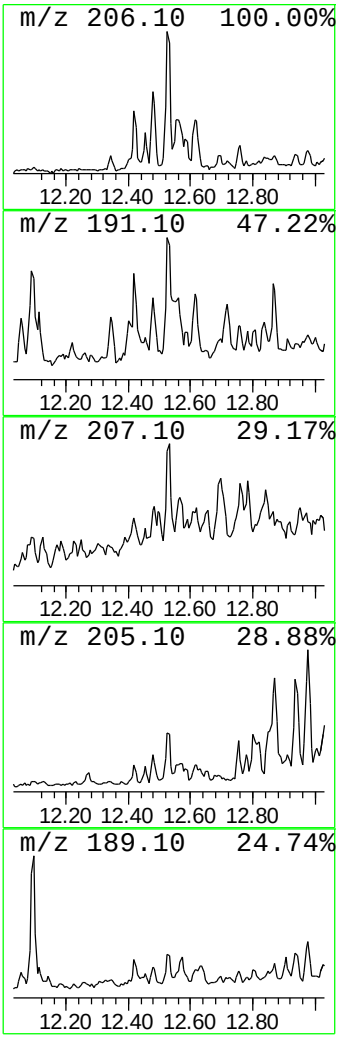
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	5.13 ng	86755	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	81
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	76
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	76





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Misc :
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ClientSampleId : PAR-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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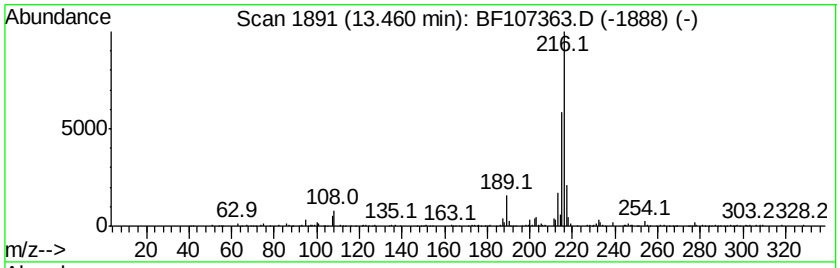
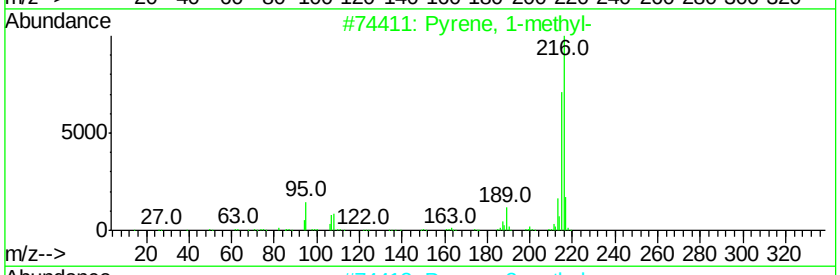
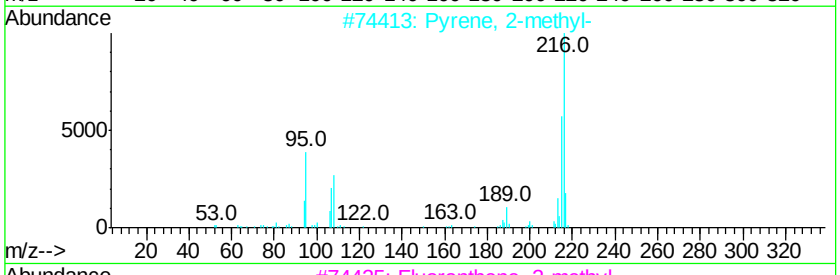
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 6

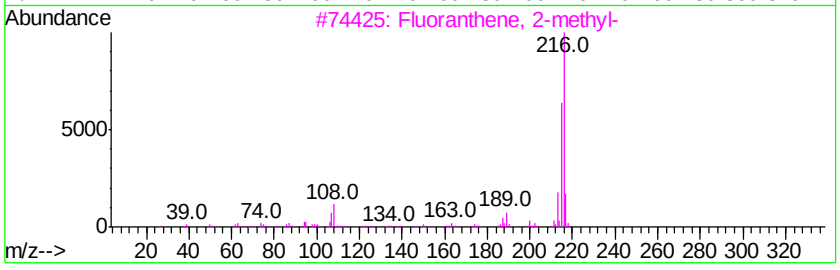
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	4.78 ng	126188	Chrysene-d12	14.14

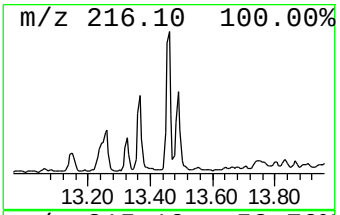
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	86
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	81

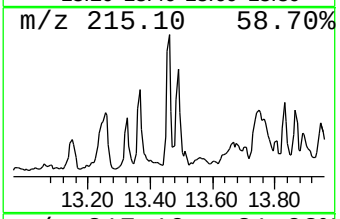


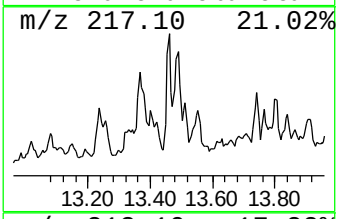


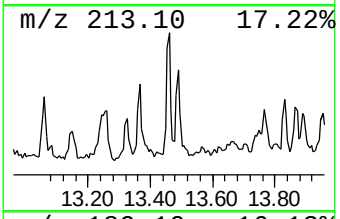


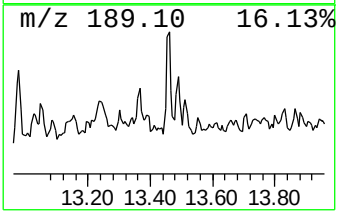












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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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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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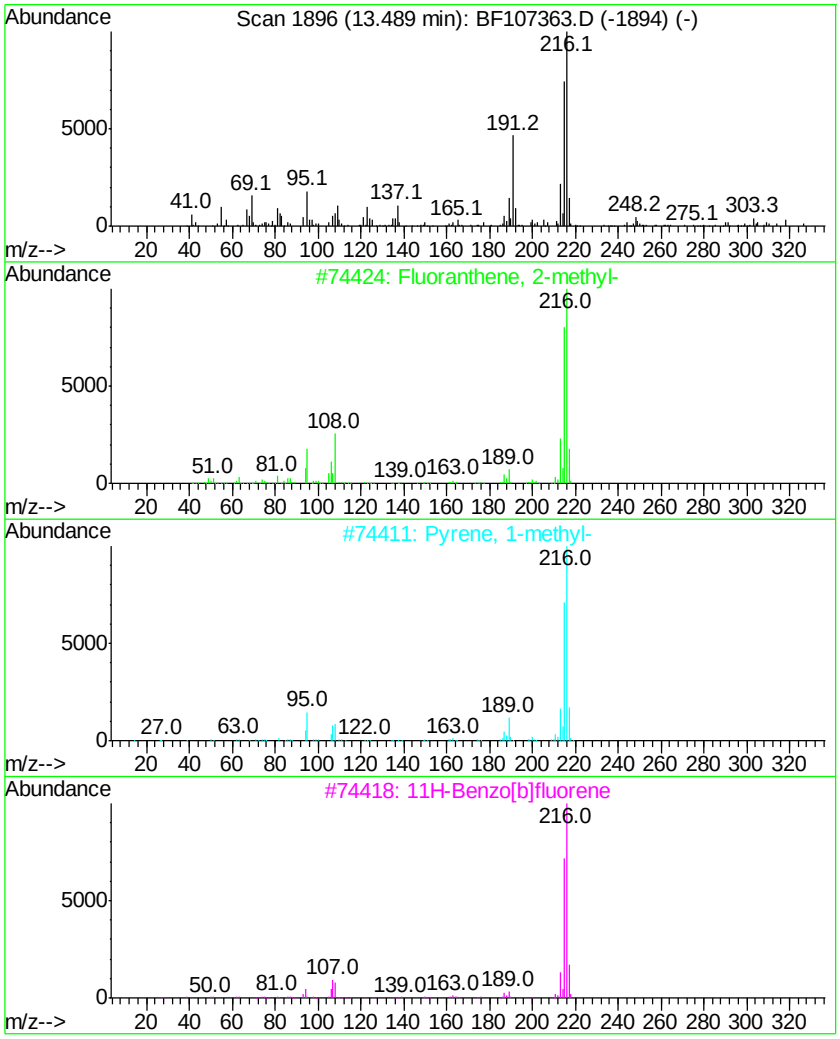
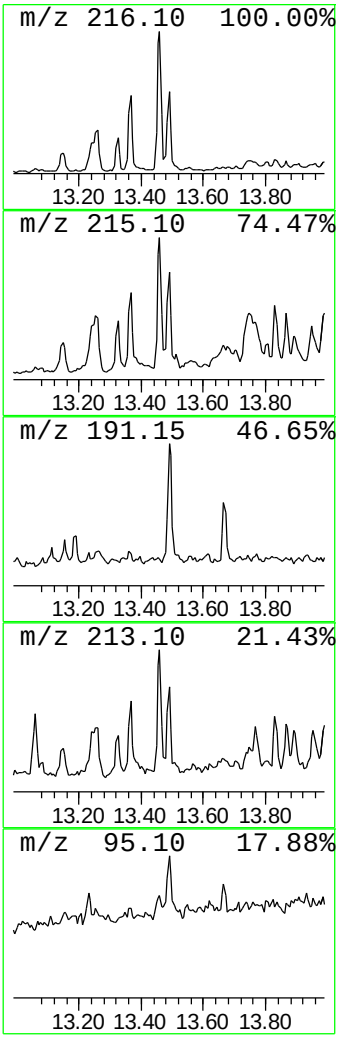
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.49	3.22 ng	85023	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	70
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	68
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64





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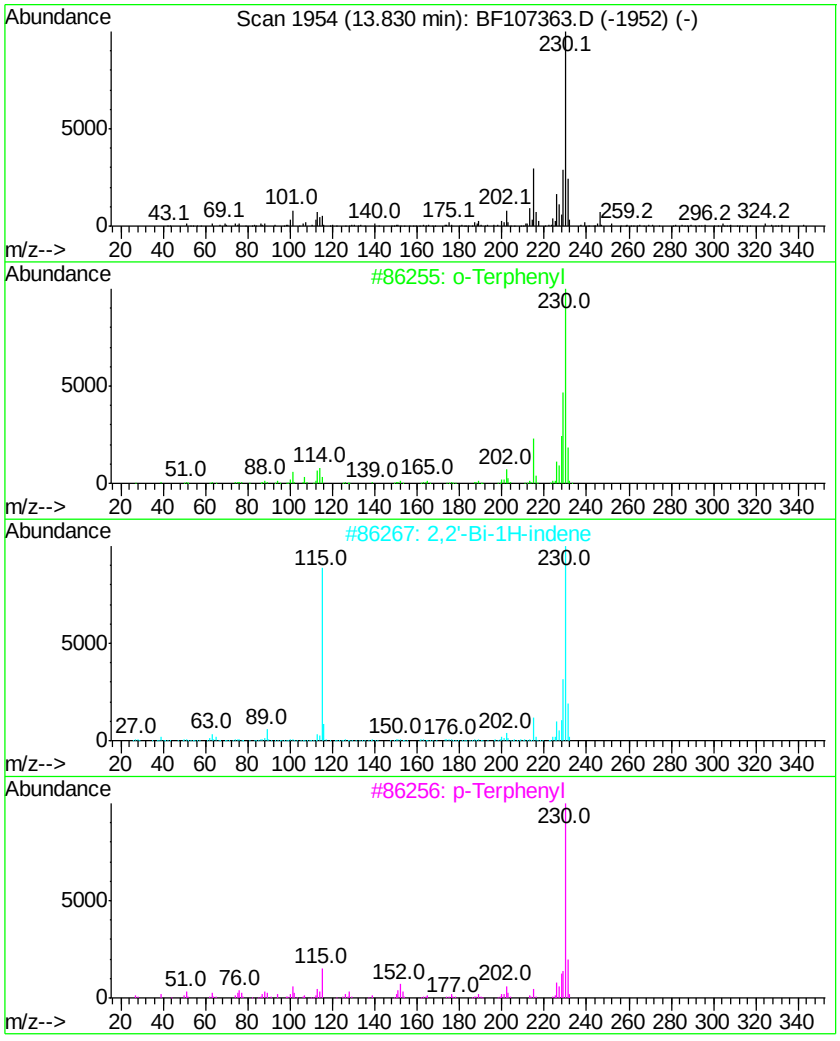
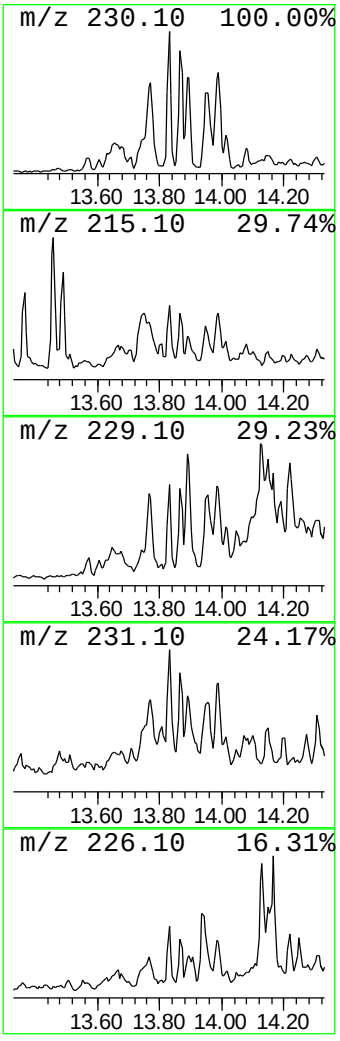
Peak Number 17 o-Terphenyl Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	3.88 ng	102323	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Terphenyl	230	C18H14	000084-15-1	94
2	2,2'-Bi-1H-indene	230	C18H14	000787-61-1	81
3	p-Terphenyl	230	C18H14	000092-94-4	64
4	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	64
5	m-Terphenyl	230	C18H14	000092-06-8	64





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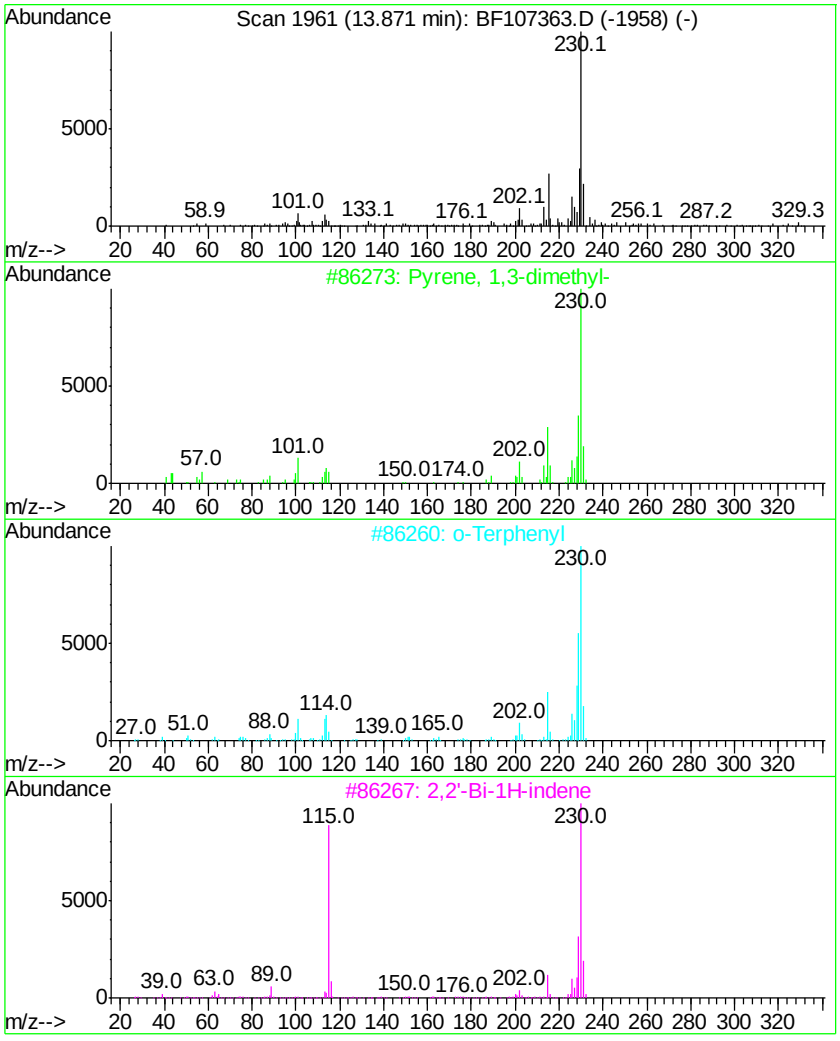
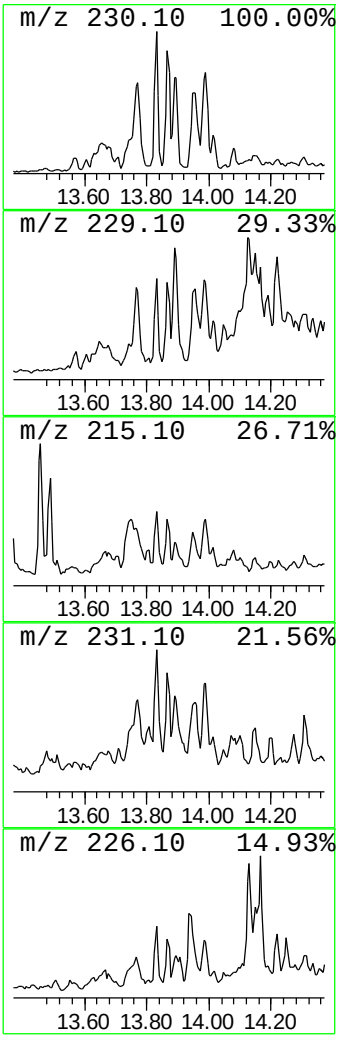
Peak Number 18 Pyrene, 1,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	3.91 ng	103277	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	95
2	o-Terphenyl	230	C18H14	000084-15-1	76
3	2,2'-Bi-1H-indene	230	C18H14	000787-61-1	72
4	p-Terphenyl	230	C18H14	000092-94-4	70
5	6,6-Diphenylfulvene	230	C18H14	002175-90-8	68





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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

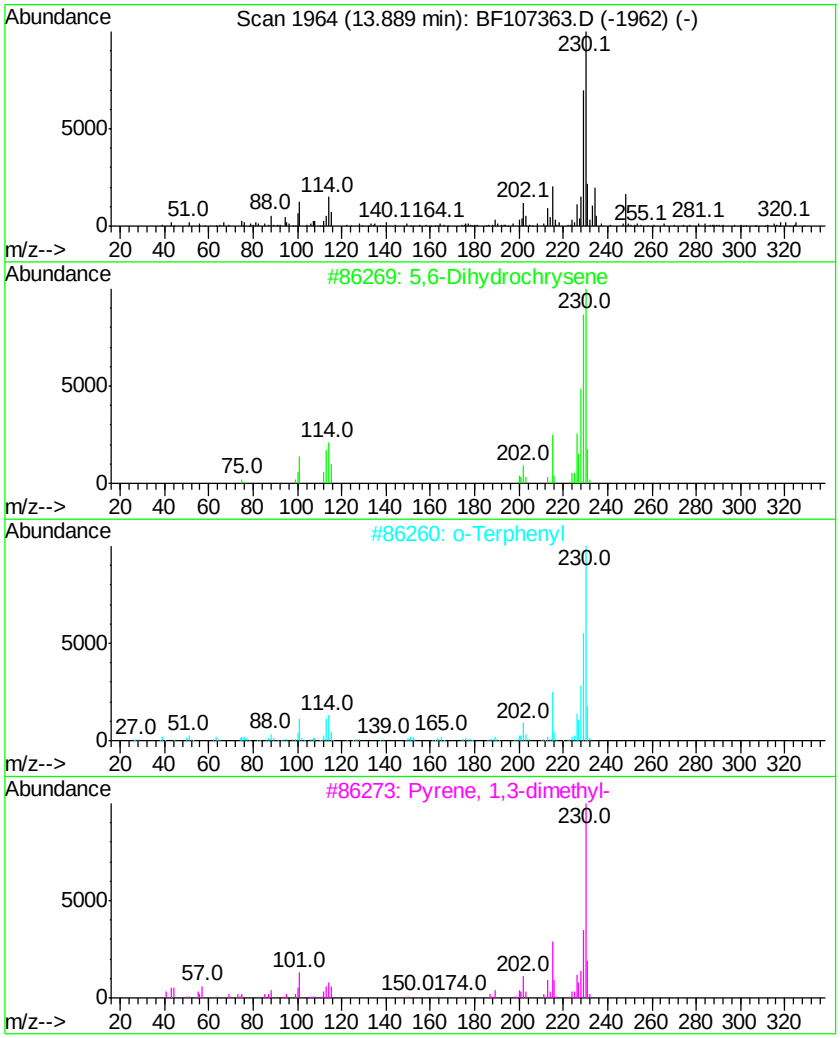
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

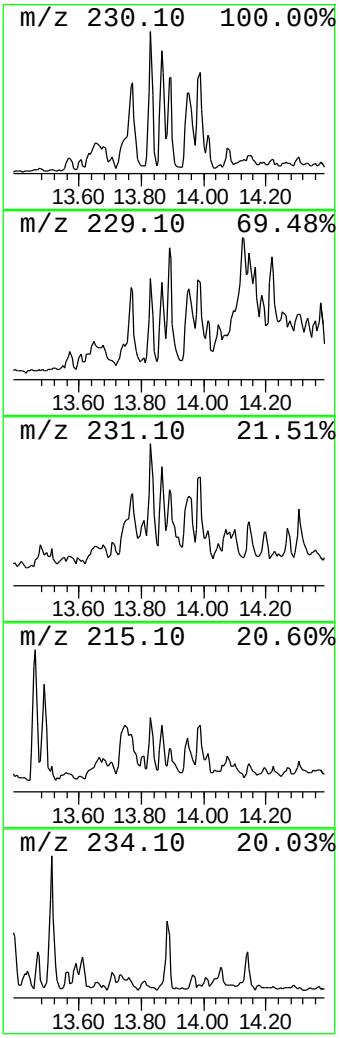
****

Peak Number 19 5,6-Dihydrochrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	4.11 ng	108519	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,6-Dihydrochrysene	230	C18H14	002091-92-1	86
2	o-Terphenyl	230	C18H14	000084-15-1	86
3	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	70
4	4,4'-Stilbenedicarbonitrile	230	C16H10N2	006292-62-2	53
5	2,2'-Bi-1H-indene	230	C18H14	000787-61-1	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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

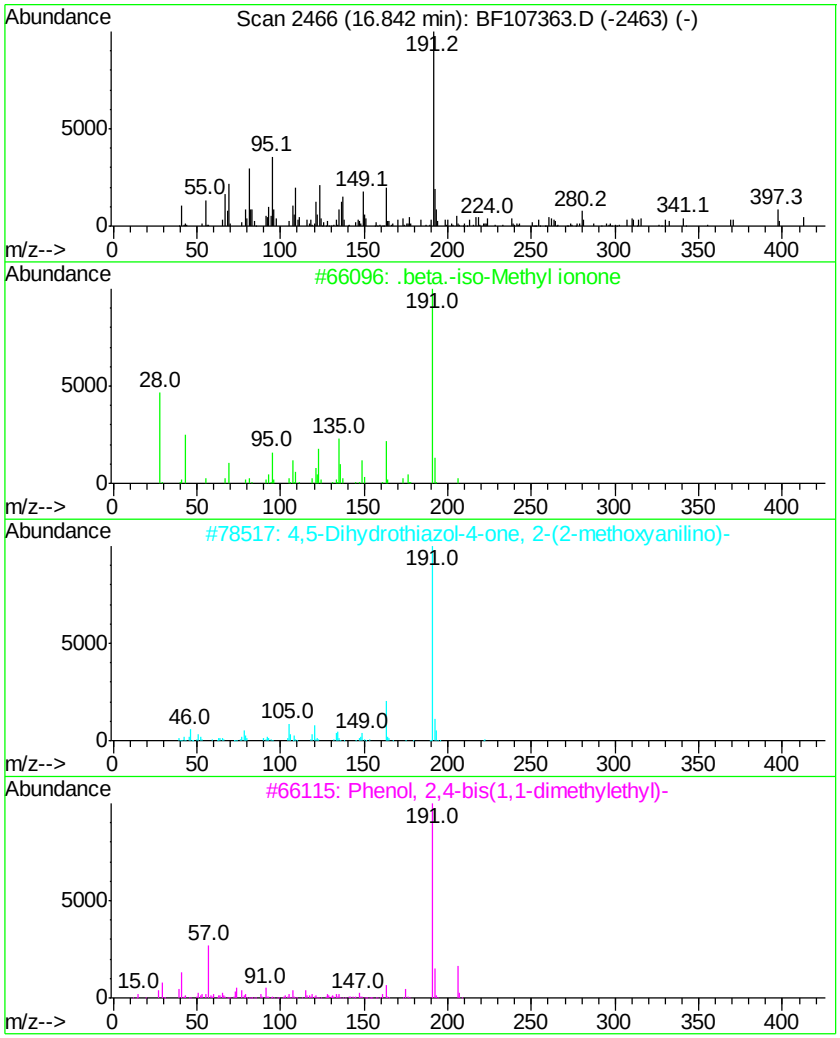
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

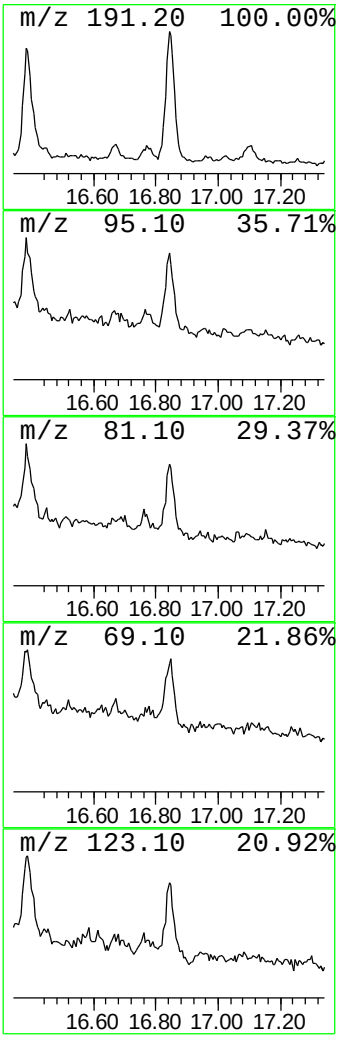
****

Peak Number 20 .beta.-iso-Methyl ionone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.84	15.70 ng	216051	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	64
2	4,5-Dihydrothiazol-4-one, 2-(2-m...	222	C10H10N2O2S	022476-61-5	46
3	Phenol, 2,4-bis(1,1-dimethylethyl)-	206	C14H22O	000096-76-4	43
4	2-Amino-4-methyl-6-(2-thienyl)py...	191	C9H9N3S	026963-43-9	43
5	4-(3H-Imidazo[4,5-b]pyridin-2-yl...	342	C15H18N8S	1000276-08-2	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071318\
Data File : BF107363.D
Acq On : 13 Jul 2018 13:30
Operator : JU/SJ
Sample : J3947-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAR-4

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...	5.16	8.4	ng	131721	1	6.93	311782	20.0
unknown6.71	6.71	55.1	ng	859216	1	6.93	311782	20.0
Naphthalene, 1,5-...	9.75	2.6	ng	38958	3	9.98	301187	20.0
unknown9.82	9.82	2.7	ng	41324	3	9.98	301187	20.0
Naphthalene, 1,6,...	10.29	3.0	ng	45856	3	9.98	301187	20.0
unknown10.59	10.59	3.9	ng	58127	3	9.98	301187	20.0
unknown10.87	10.87	4.0	ng	67268	4	11.47	338214	20.0
3,3'-Dimethylbiph...	11.11	3.4	ng	57150	4	11.47	338214	20.0
unknown11.80	11.80	4.0	ng	66957	4	11.47	338214	20.0
Phenanthrene, 4-m...	11.98	3.4	ng	57366	4	11.47	338214	20.0
4H-Cyclopenta[def...	12.10	3.3	ng	55716	4	11.47	338214	20.0
di-p-Tolylacetylene	12.48	3.0	ng	49939	4	11.47	338214	20.0
9,10-Dimethylanth...	12.53	5.1	ng	86755	4	11.47	338214	20.0
Pyrene, 1-methyl-	13.46	4.8	ng	126188	5	14.14	528092	20.0
Fluoranthene, 2-m...	13.49	3.2	ng	85023	5	14.14	528092	20.0
o-Terphenyl	13.83	3.9	ng	102323	5	14.14	528092	20.0
Pyrene, 1,3-dimet...	13.87	3.9	ng	103277	5	14.14	528092	20.0
5,6-Dihydrochrysene	13.89	4.1	ng	108519	5	14.14	528092	20.0
.beta.-iso-Methyl...	16.84	15.7	ng	216051	6	15.69	275283	20.0