LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF112916.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	5.030	237	240	244	rVB	525611	628871	11.46%	1.094%
2	5.441	274	276	279	rVB	1711206	2294063	41.81%	3.991%
3	6.470	363	366	369	rVB	1410188	1388081	25.30%	2.415%
4	6.619	376	379	381	rBV	3766435	4073522	74.23%	7.086%
5	6.847	397	399	401	rBV	995550	822364	14.99%	1.431%
6	7.007	408	413	415	rBV2	3737351	4007075	73.02%	6.971%
7	7.419	445	449	451	rVB	2080874	3222098	58.72%	5.605%
8	7.499	454	456	458	rVB2	59862	62097	1.13%	0.108%
9	7.556	458	461	462	rBV2	77540	92348	1.68%	0.161%
10	7.716	472	475	478	rBV2	65914	84626	1.54%	0.147%
11	7.876	482	489	490	rVV3	160562	333900	6.08%	0.581%
12	7.922	490	493	494	rVV	286042	524799	9.56%	0.913%
13	8.036	494	503	504	rVV	479650	1476602	26.91%	2.569%
14	8.059	504	505	507	rVV	137585	210651	3.84%	0.366%
15	8.127	507	511	515	rVV2	954602	1833754	33.42%	3.190%
16	8.207	515	518	519	rVB2	199087	228563	4.17%	0.398%
17	8.310	524	527	528	rBV	77266	115775	2.11%	0.201%
18	8.459	537	540	541	rBV2	41055	74999	1.37%	0.130%
19	8.482	541	542	544	rVB2	122655	122285	2.23%	0.213%
20	8.539	544	547	548	rVB3	49456	58875	1.07%	0.102%
21	8.607	551	553	555	rBV	147927	184803	3.37%	0.321%
22	8.642	555	556	557	rVB	85306	58520	1.07%	0.102%
23	8.676	557	559	560	rBV	397358	346973	6.32%	0.604%
24	8.802	565	570	572	rVV	615628	757140	13.80%	1.317%
25	8.870	572	576	577	rVV4	90136	176903	3.22%	0.308%
26	8.916	577	580	581	rVV	862966	1226192	22.35%	2.133%
27	8.985	584	586	588	rVV	848897	793126	14.45%	1.380%
28	9.019	588	589	591	rVV	53455	82533	1.50%	0.144%
29	9.133	595	599	601	rVB	408821	658510	12.00%	1.146%
30	9.213	603	606	609	rVV	5124364	5120722	93.32%	8.908%
31	9.293	611	613	614	rBV	45129	73169	1.33%	0.127%
32	9.350	616	618	619	rBV	81645	109131	1.99%	0.190%
33	9.373	619	620	623	rVV3	357621	541474	9.87%	0.942%
34	9.419	623	624	626	rVV	437496	384966	7.02%	0.670%

LSC Area Percent Report

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Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.476	626	629	631	rVV	312144	347036	6.32%	0.604%
36	9.545	633	635	637	rVV3	64731	87354	1.59%	0.152%
37	9.579	637	638	643	rVV2	216120	296872	5.41%	0.516%
38	9.659	643	645	650	rVB	277713	419445	7.64%	0.730%
39	9.750	650	653	655	rBV2	280403	456941	8.33%	0.795%
40	9.888	660	665	666	rBV2	1531901	1730831	31.54%	3.011%
41	9.922	666	668	669	rVV	210989	275806	5.03%	0.480%
42	10.002	672	675	676	rVV2	69142	137339	2.50%	0.239%
43	10.036	676	678	680	rVV	1257826	1212390	22.09%	2.109%
44	10.093	680	683	687	rVV3	203959	518587	9.45%	0.902%
45	10.173	687	690	695	rVV6	133674	537003	9.79%	0.934%
46	10.288	698	700	701	rVV	94308	108968	1.99%	0.190%
47	10.310	701	702	705	rVV	170342	297501	5.42%	0.518%
48	10.402	709	710	711	rVV	119727	84581	1.54%	0.147%
49	10.425	711	712	715	rVB	49698	71568	1.30%	0.124%
50	10.482	715	717	718	rBV	63704	99091	1.81%	0.172%
51	10.516	718	720	721	rVV	102473	120437	2.19%	0.210%
52	10.562	721	724	725	rVV2	118741	202442	3.69%	0.352%
53	10.585	725	726	730	rVV2	186134	210713	3.84%	0.367%
54	10.676	730	734	736	rVV	3441016	3826569	69.73%	6.657%
55	10.722	736	738	740	rVV2	65633	91236	1.66%	0.159%
56	10.779	740	743	746	rVV	501487	632886	11.53%	1.101%
57	10.836	746	748	749	rVV	131698	167248	3.05%	0.291%
58	10.870	749	751	752	rVB	72283	85240	1.55%	0.148%
59	10.905	752	754	755	rBV	162778	173687	3.17%	0.302%
60	10.928	755	756	758	rVV2	147522	259257	4.72%	0.451%
61	10.962	758	759	760	rVB	233826	160921	2.93%	0.280%
62	11.133	770	774	775	rBV4	62765	97067	1.77%	0.169%
63	11.202	777	780	781	rVV	171677	200670	3.66%	0.349%
64	11.259	783	785	787	rVV	359365	501444	9.14%	0.872%
65	11.305	787	789	793	rVV2	328692	543860	9.91%	0.946%
66	11.373	793	795	798	rVV	1026465	1397299	25.46%	2.431%
67	11.476	802	804	806	rVB2	67976	90084	1.64%	0.157%
68	11.545	806	810	812	rVB2	49560	94904	1.73%	0.165%
69	11.591	812	814	816	rVB	60340	74402	1.36%	0.129%
70	11.636	816	818	819	rBV	64588	70809	1.29%	0.123%
71	11.671	819	821	822	rVV2	61488	67876	1.24%	0.118%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : MW-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.693	822	823	826	rVV	93593	121143	2.21%	0.211%
73	11.773	826	830	833	rVV4	66278	174274	3.18%	0.303%
74	11.819	833	834	837	rVV2	111917	159955	2.91%	0.278%
75	11.876	837	839	840	rVV2	70665	132550	2.42%	0.231%
76	11.899	840	841	843	rVV	131998	130970	2.39%	0.228%
77	11.979	846	848	852	rVB2	249827	288958	5.27%	0.503%
78	12.128	858	861	862	rBV2	48444	81239	1.48%	0.141%
79	12.162	862	864	866	rVV	90027	118093	2.15%	0.205%
80	12.231	869	870	874	rVB2	86868	111643	2.03%	0.194%
81	12.413	883	886	887	rBV3	38635	69770	1.27%	0.121%
82	12.459	887	890	892	rVV3	50157	89607	1.63%	0.156%
83	12.493	892	893	897	rVV4	51403	122469	2.23%	0.213%
84	12.573	898	900	902	rVV	198186	185663	3.38%	0.323%
85	12.688	908	910	912	rBV	81680	92546	1.69%	0.161%
86	12.802	916	920	922	rVB	273034	279356	5.09%	0.486%
87	12.962	931	934	936	rBV	4747551	5487520	100.00%	9.546%
88	13.385	969	971	973	rVB	73654	63914	1.16%	0.111%
89	13.534	980	984	988	rVB5	30121	63126	1.15%	0.110%
90	14.002	1022	1025	1027	rBV	829463	1040294	18.96%	1.810%
91	15.419	1146	1149	1152	rBV	543545	752721	13.72%	1.309%

Sum of corrected areas: 57485685

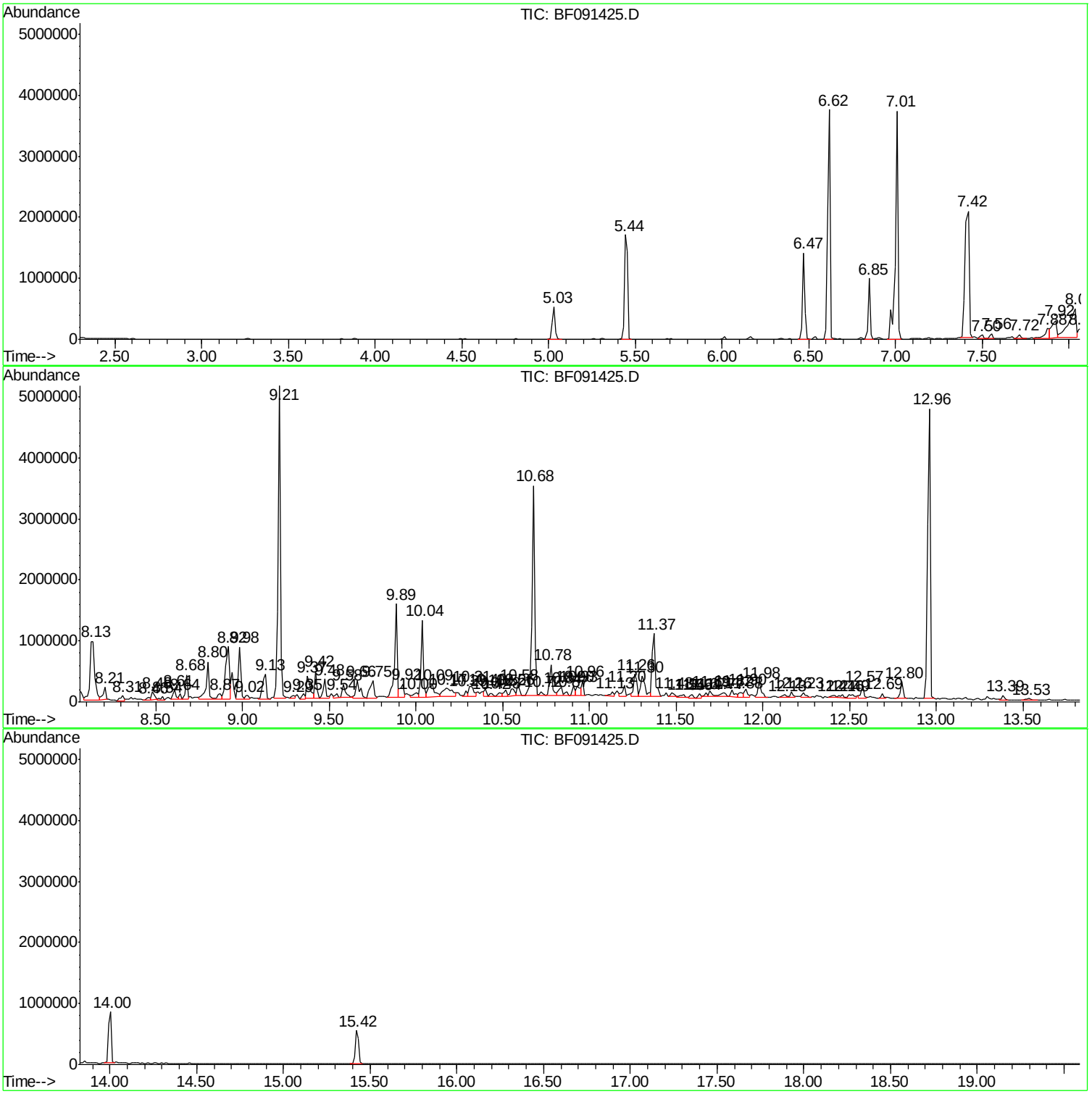
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

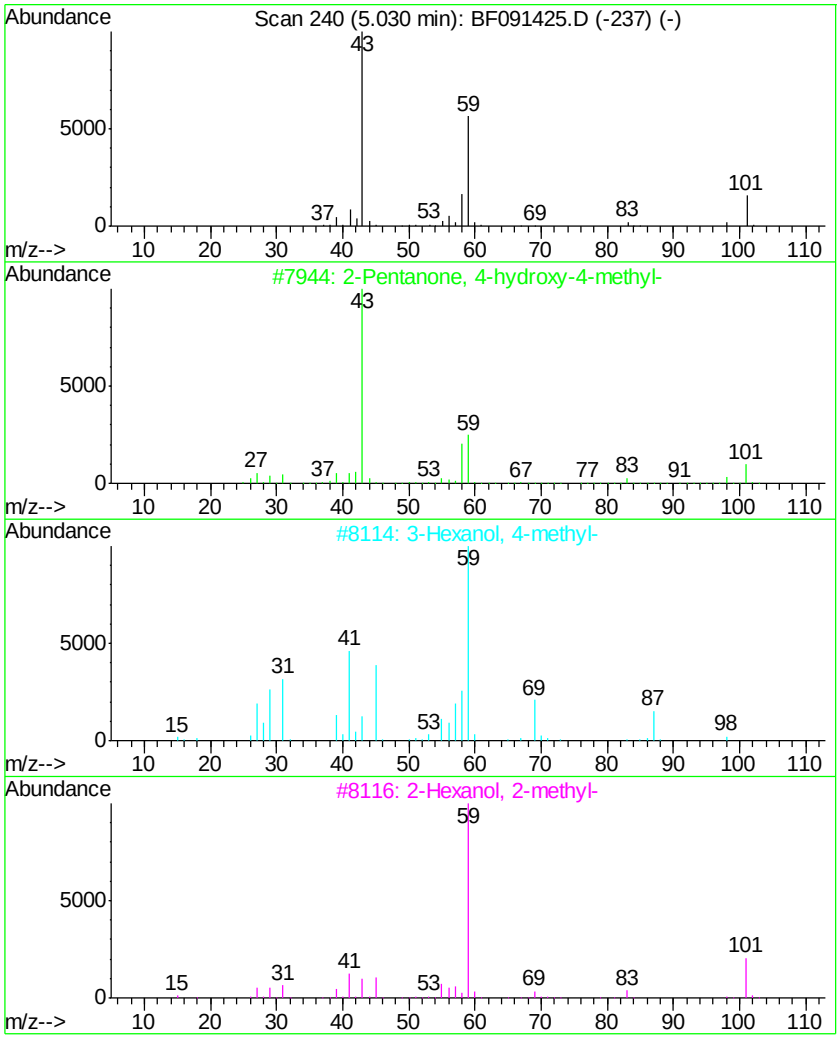
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

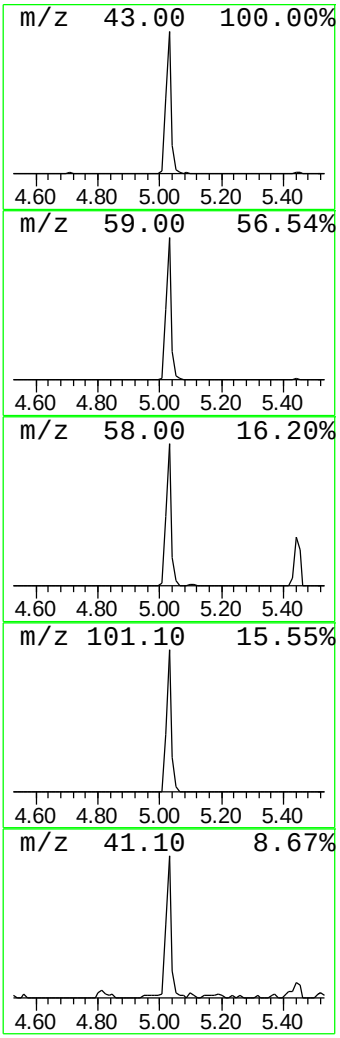
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.03	15.29 ng	628871	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	17





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
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Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

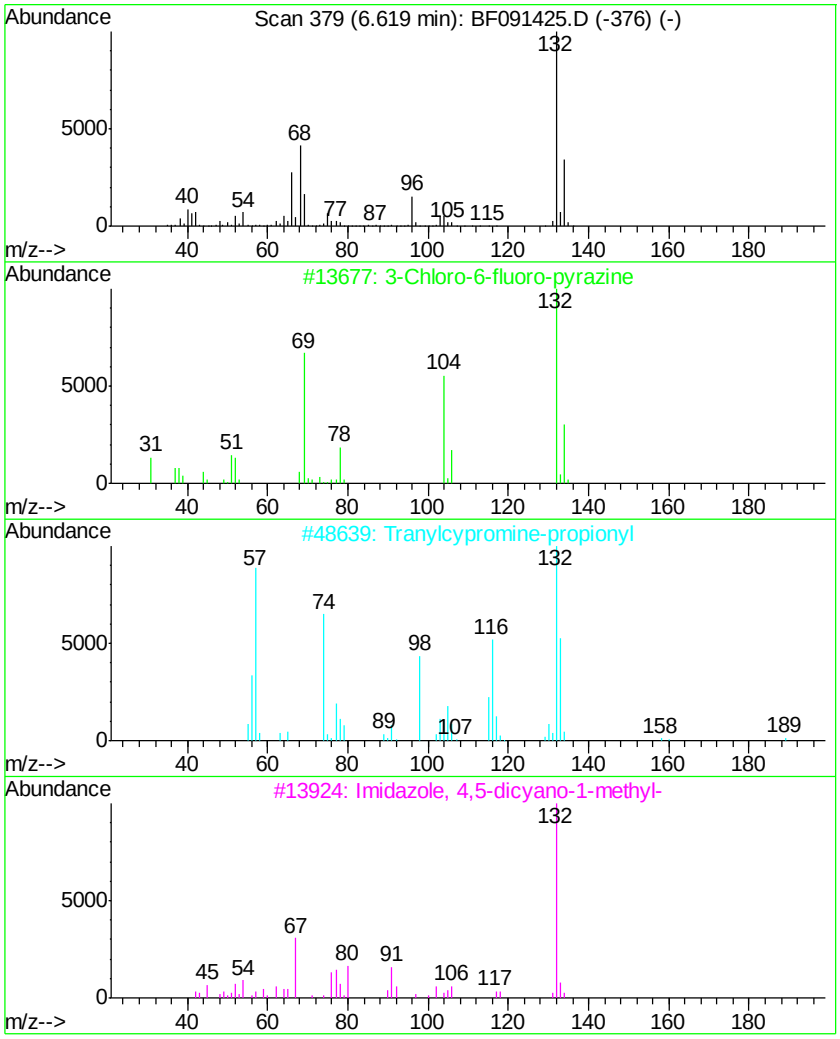
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

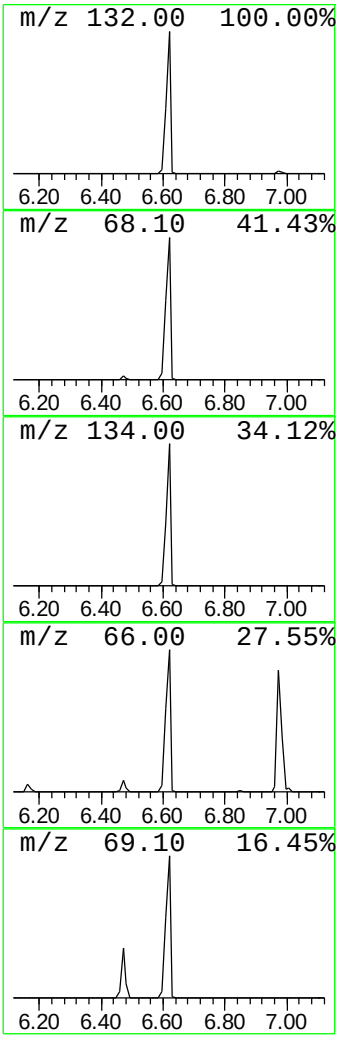
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	99.07 ng	4073520	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
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Sample : H5838-04
Misc :
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Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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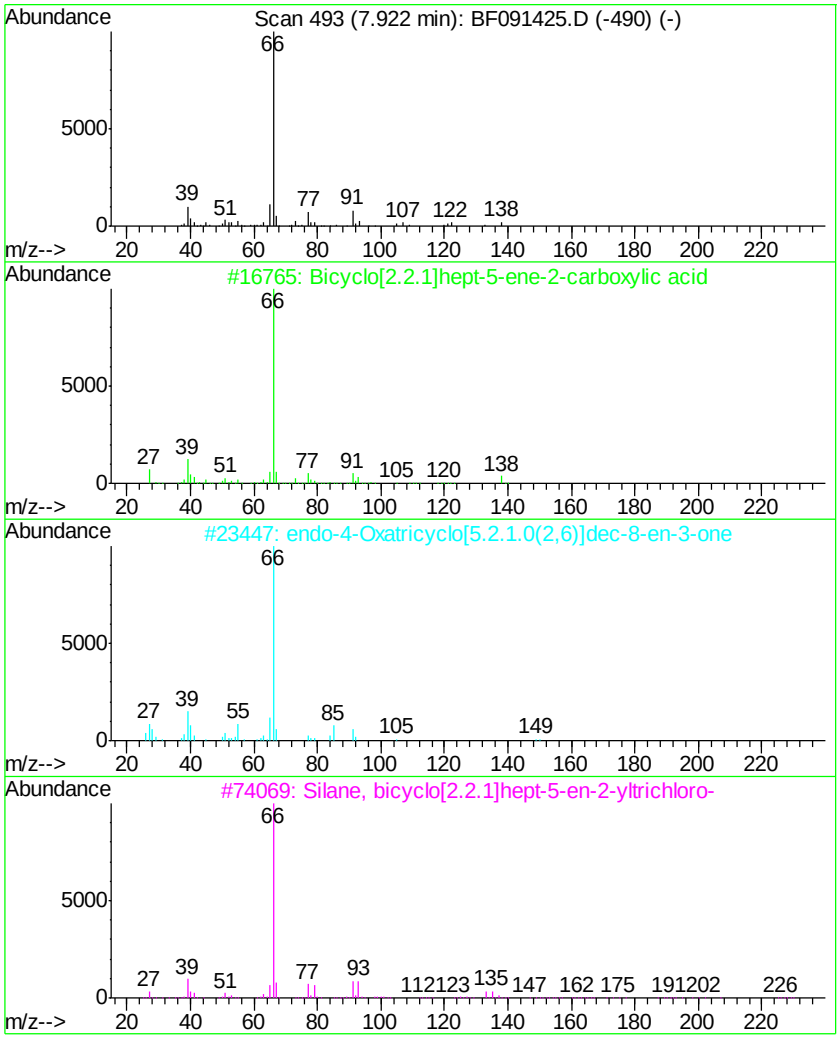
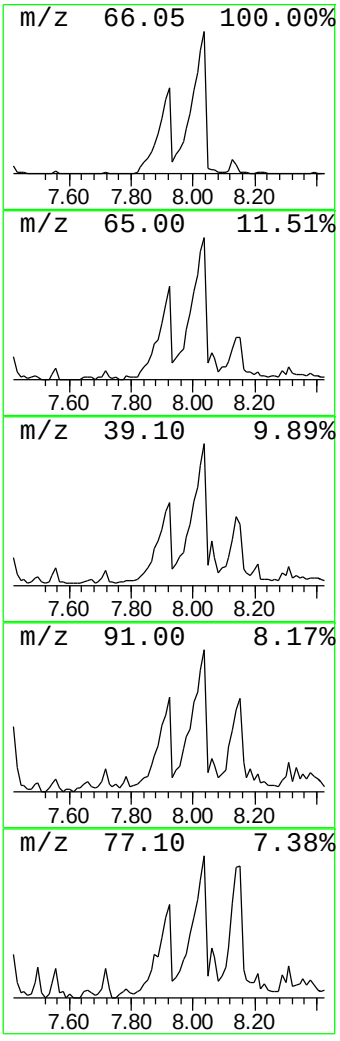
****

Peak Number 4 Bicyclo[2.2.1]hept-5-ene-2-... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	5.72 ng	524799	Naphthalene-d8	8.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]hept-5-ene-2-carbo...	138	C8H10O2	000120-74-1	90
2	endo-4-Oxatricyclo[5.2.1.0(2,6)]...	150	C9H10O2	095340-93-5	83
3	Silane, bicyclo[2.2.1]hept-5-en-...	226	C7H9Cl3Si	014319-64-3	83
4	5-Ethyl bicyclo[2.2.1]-2-heptene	122	C9H14	015403-89-1	83
5	2-Methylbicyclo[2.2.1]-5-heptene...	152	C9H12O2	000825-03-6	83





Library Search Compound Report

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Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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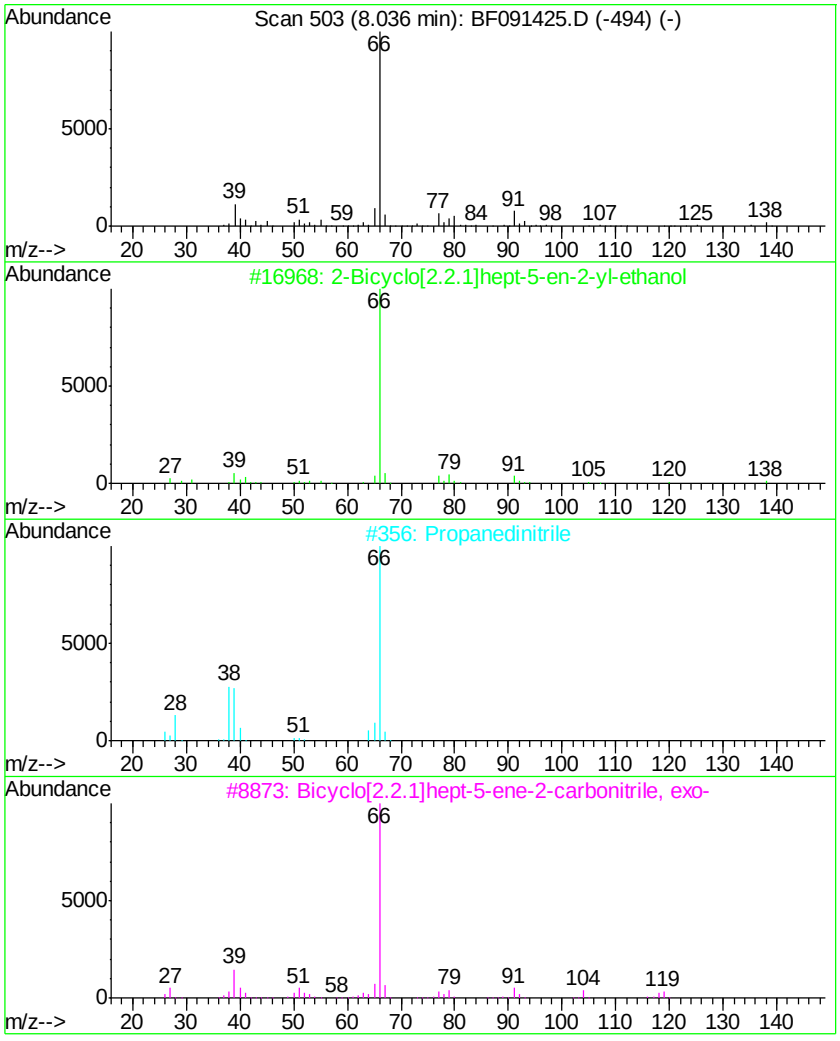
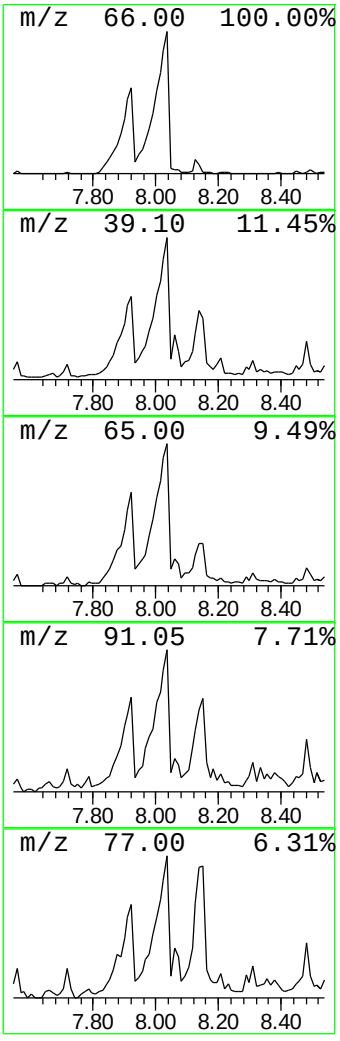
****

Peak Number 5 2-Bicyclo[2.2.1]hept-5-en-2... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	16.10 ng	1476600	Naphthalene-d8	8.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bicyclo[2.2.1]hept-5-en-2-yl-e...	138	C9H14O	013080-91-6	90
2	Propanedinitrile	66	C3H2N2	000109-77-3	86
3	Bicyclo[2.2.1]hept-5-ene-2-carbo...	119	C8H9N	002890-96-2	83
4	Bicyclo[2.2.1]hept-2-ene, 5-ethe...	120	C9H12	003048-64-4	83
5	Bicyclo[2.2.1]hept-5-ene-2-carbo...	138	C8H10O2	000120-74-1	83





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Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

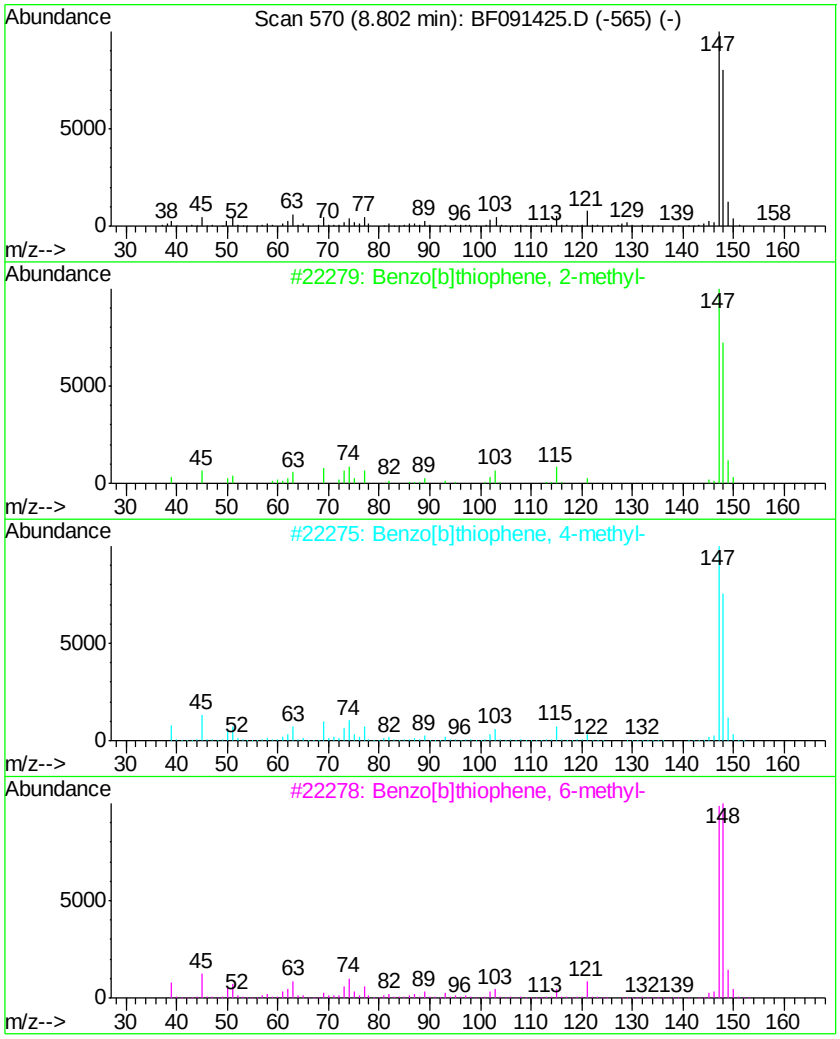
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

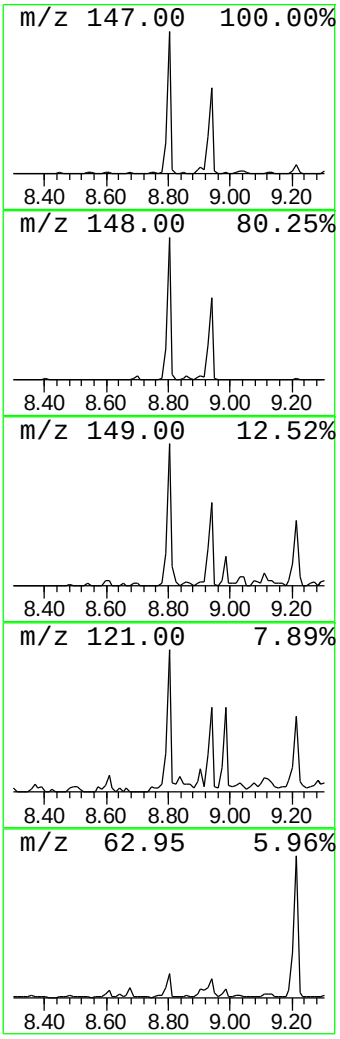
****

Peak Number 6 Benzo[b]thiophene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.80	8.26 ng	757140	Naphthalene-d8	8.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
2	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	91
3	Benzo[b]thiophene, 6-methyl-	148	C9H8S	016587-47-6	91
4	3-Methylbenzothiophene	148	C9H8S	001455-18-1	91
5	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	78





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

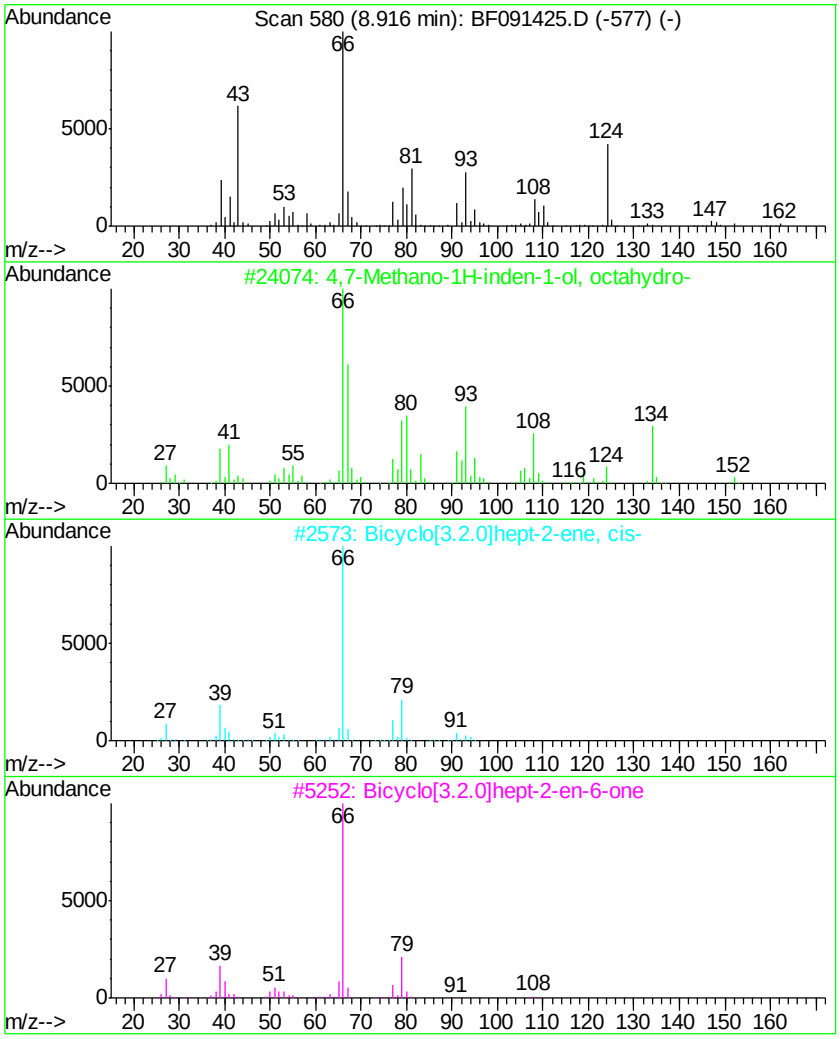
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

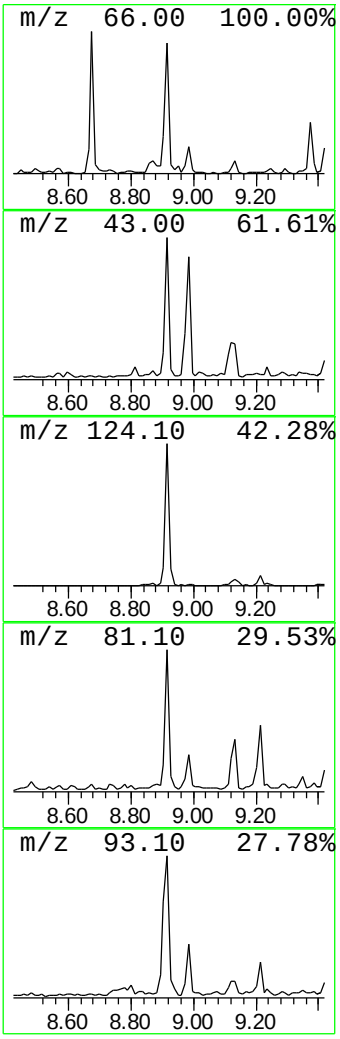
****

Peak Number 7 4,7-Methano-1H-inden-1-ol, ... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.92	13.37 ng	1226190	Naphthalene-d8	8.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,7-Methano-1H-inden-1-ol, octah...	152	C10H16O	055255-97-5	72
2	Bicyclo[3.2.0]hept-2-ene, cis-	94	C7H10	1000155-54-0	64
3	Bicyclo[3.2.0]hept-2-en-6-one	108	C7H8O	013173-09-6	59
4	4,5-Diazatricyclo[4.3.0.0(3,7)]n...	136	C7H8N2O	1000112-54-8	59
5	1H-Indene, 3a,4,7,7a-tetrahydro-	120	C9H12	003048-65-5	59





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Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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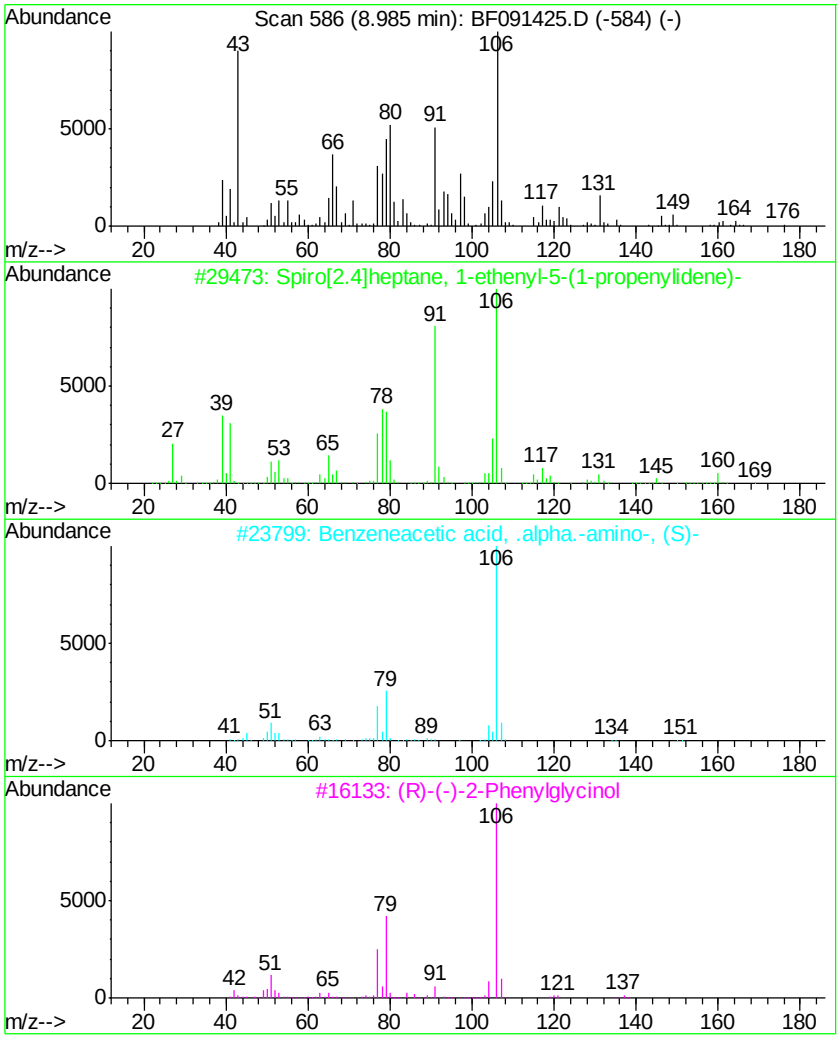
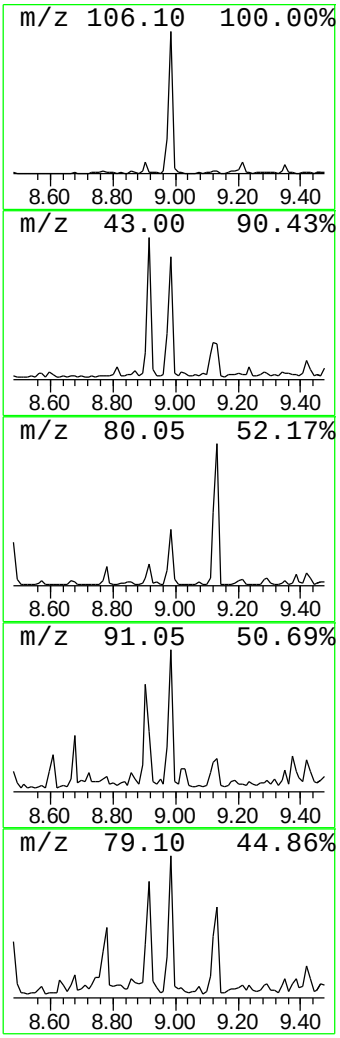
Peak Number 8 unknown8.98 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.98	8.65 ng	793126	Naphthalene-d8	8.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Spiro[2.4]heptane, 1-ethenyl-5-(...	160	C12H16	074793-03-6	35
2	Benzeneacetic acid, .alpha.-amin...	151	C8H9NO2	002935-35-5	27
3	(R)-(-)-2-Phenylglycinol	137	C8H11NO	056613-80-0	27
4	Benzeneacetamide, .alpha.-amino-	150	C8H10N2O	000700-63-0	27
5	Benzenemethanamine, .alpha.-meth...	121	C8H11N	000618-36-0	27





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Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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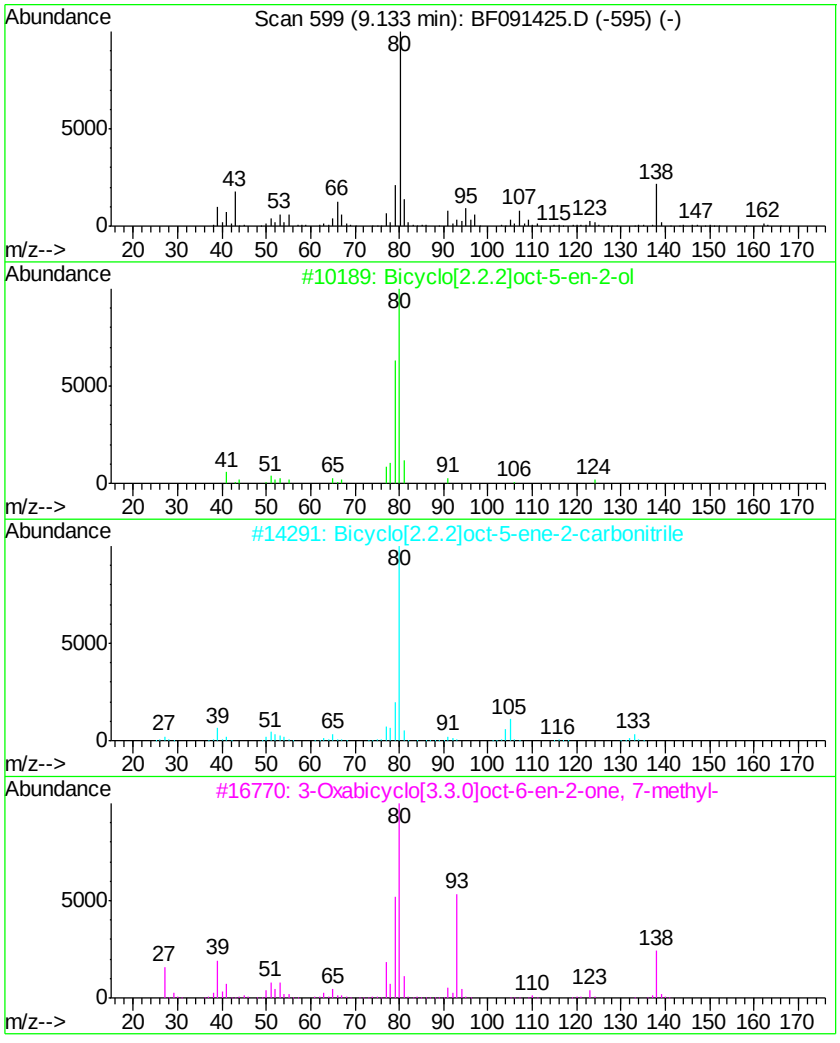
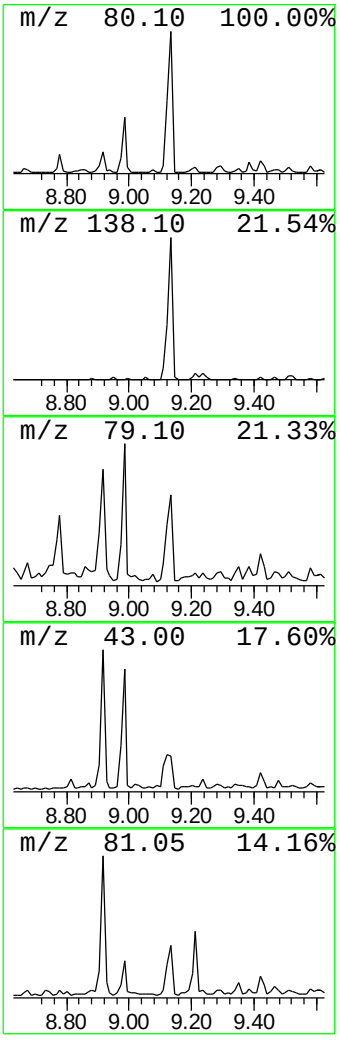
Peak Number 9 Bicyclo[2.2.2]oct-5-en-2-ol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.13	7.61 ng	658510	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.2]oct-5-en-2-ol	124	C8H12O	055320-40-6	72
2	Bicyclo[2.2.2]oct-5-ene-2-carbon...	133	C9H11N	1000164-89-7	56
3	3-Oxabicyclo[3.3.0]oct-6-en-2-on...	138	C8H10O2	1000155-62-3	56
4	Pyrrole-3-butyronitrile	134	C8H10N2	000874-91-9	50
5	1-Methylbicyclo[2.2.1]hept-5-ene...	264	C15H20O4	1000210-18-6	50





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Misc :
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ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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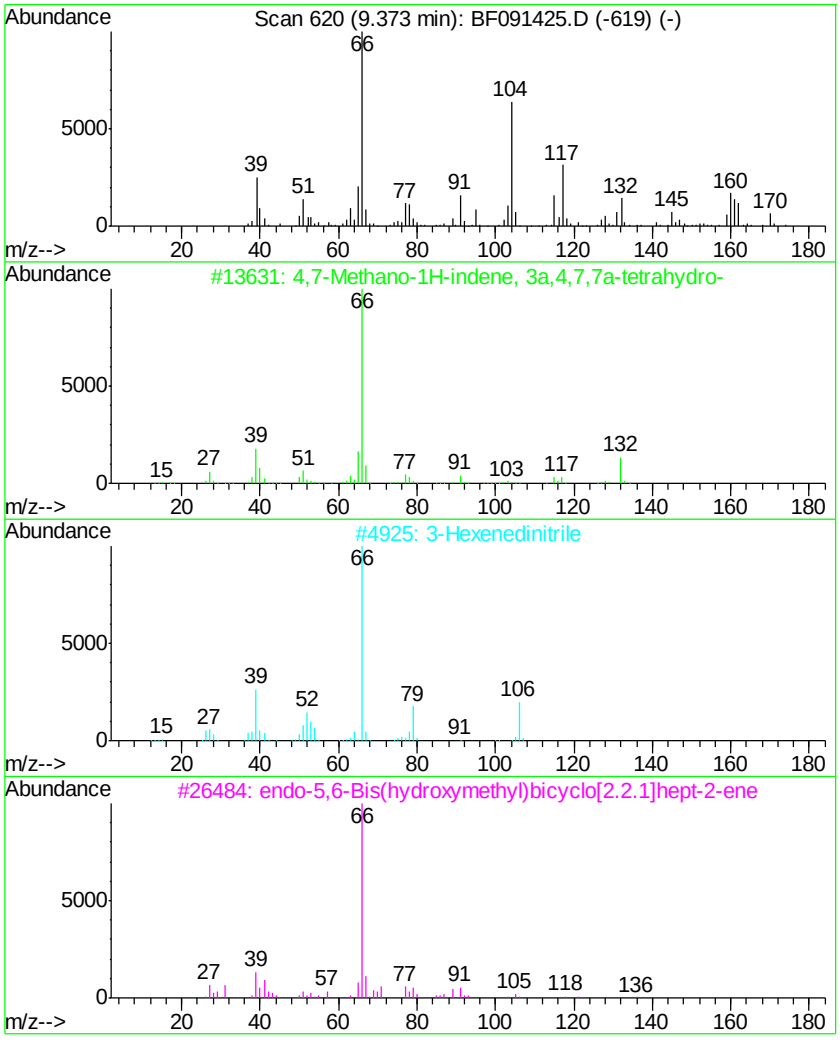
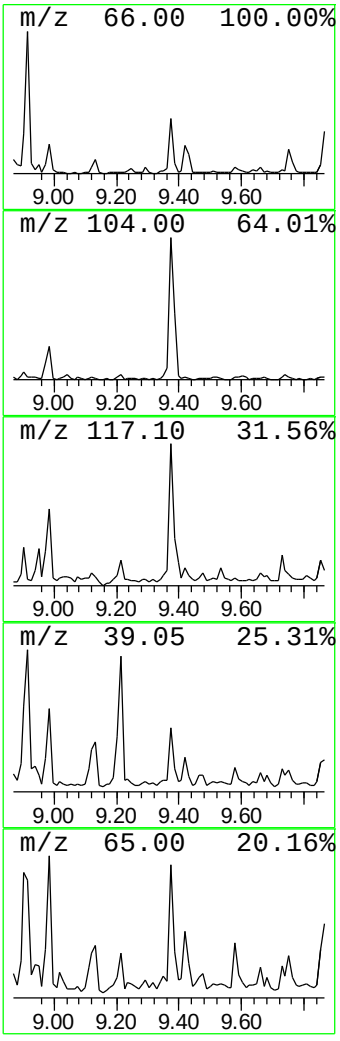
Peak Number 10 4,7-Methano-1H-indene, 3a,4... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	6.26 ng	541474	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,7-Methano-1H-indene, 3a,4,7,7a...	132	C10H12	000077-73-6	64
2	3-Hexenedinitrile	106	C6H6N2	001119-85-3	53
3	endo-5,6-Bis(hydroxymethyl)bicyc...	154	C9H14O2	000699-97-8	53
4	Bicyclo[2.2.1]hept-5-en-2-ol	110	C7H10O	013080-90-5	53
5	4,7-Methanoindan-2-one, 3a,4,7,7...	148	C10H12O	091060-78-5	53





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ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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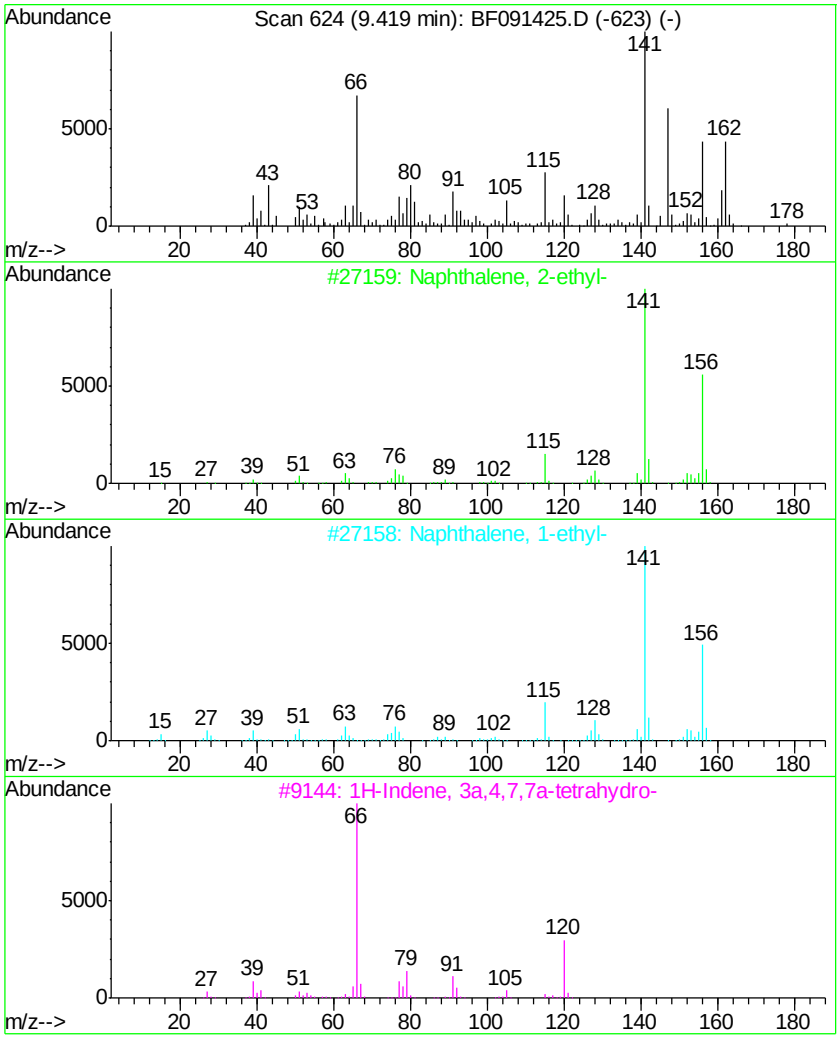
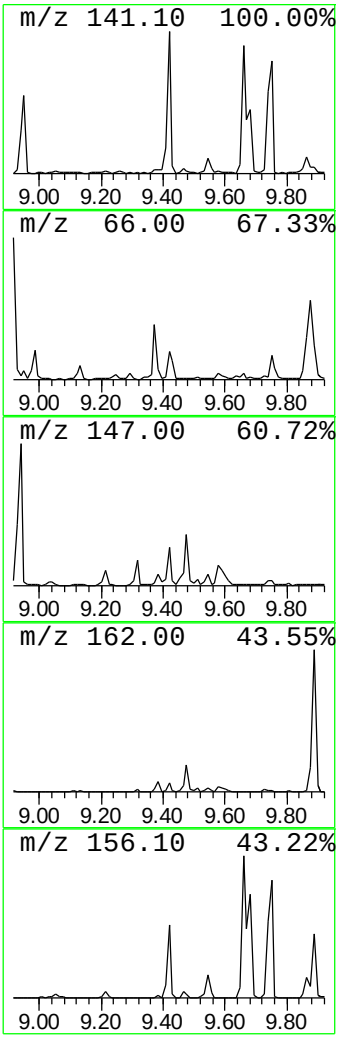
Peak Number 11 Naphthalene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	4.45 ng	384966	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	64
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	48
3	1H-Indene, 3a,4,7,7a-tetrahydro-	120	C9H12	003048-65-5	30
4	Bicyclo[4.3.0]nona-3,7-diene, tr...	120	C9H12	066563-20-0	27
5	Tricyclo[4.2.1.0<2,5>]non-3-ene	120	C9H12	007078-40-2	27





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Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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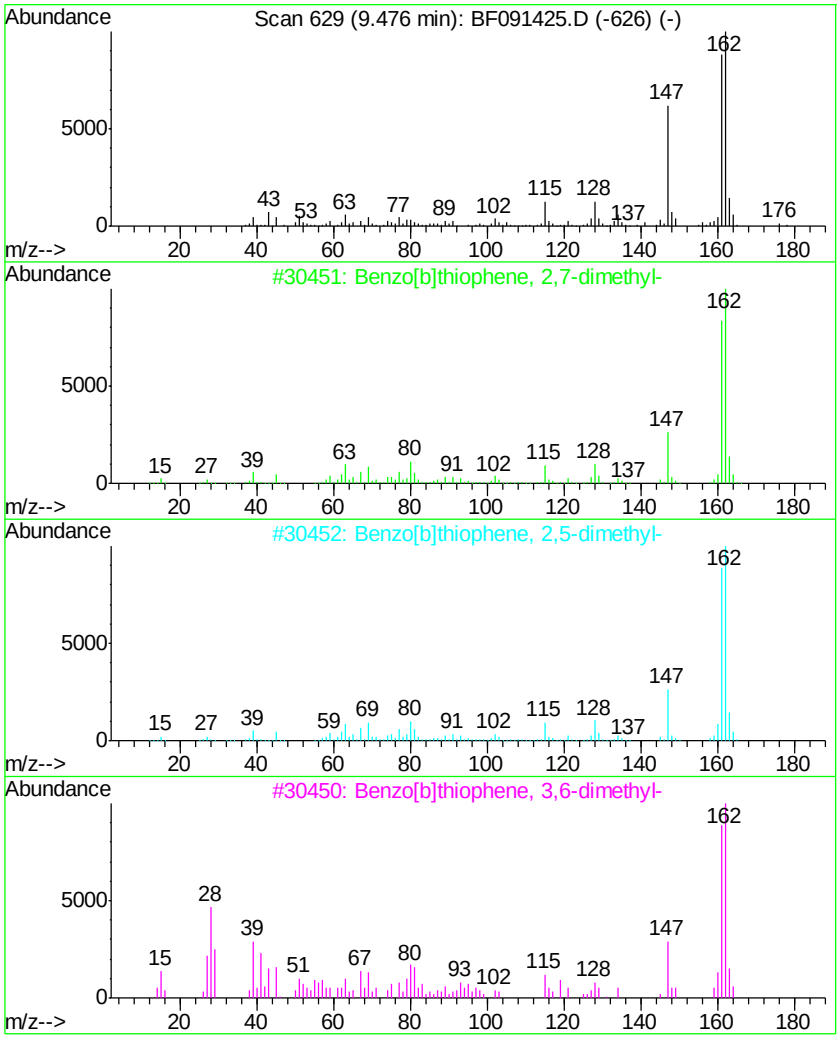
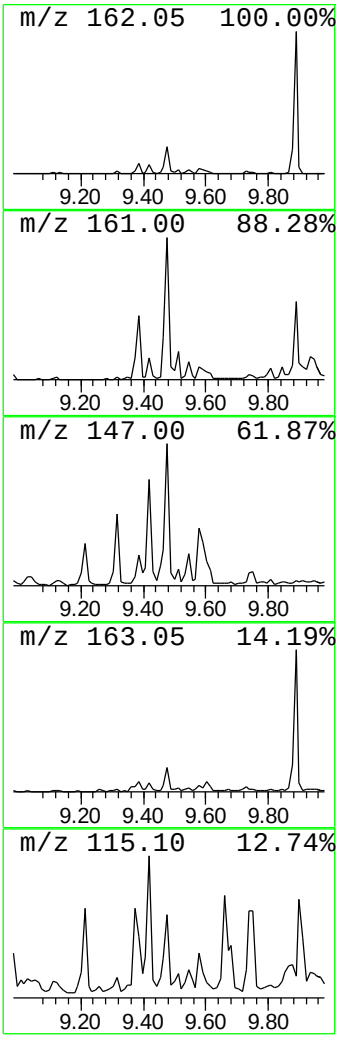
Peak Number 12 Benzo[b]thiophene, 2,7-dime... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.48	4.01 ng	347036	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,7-dimethyl-	162	C10H10S	016587-40-9	83
2	Benzo[b]thiophene, 2,5-dimethyl-	162	C10H10S	016587-48-7	83
3	Benzo[b]thiophene, 3,6-dimethyl-	162	C10H10S	016587-50-1	72
4	Benzene, hexamethyl-	162	C12H18	000087-85-4	47
5	Benzo[b]thiophene, 2-ethyl-	162	C10H10S	001196-81-2	47





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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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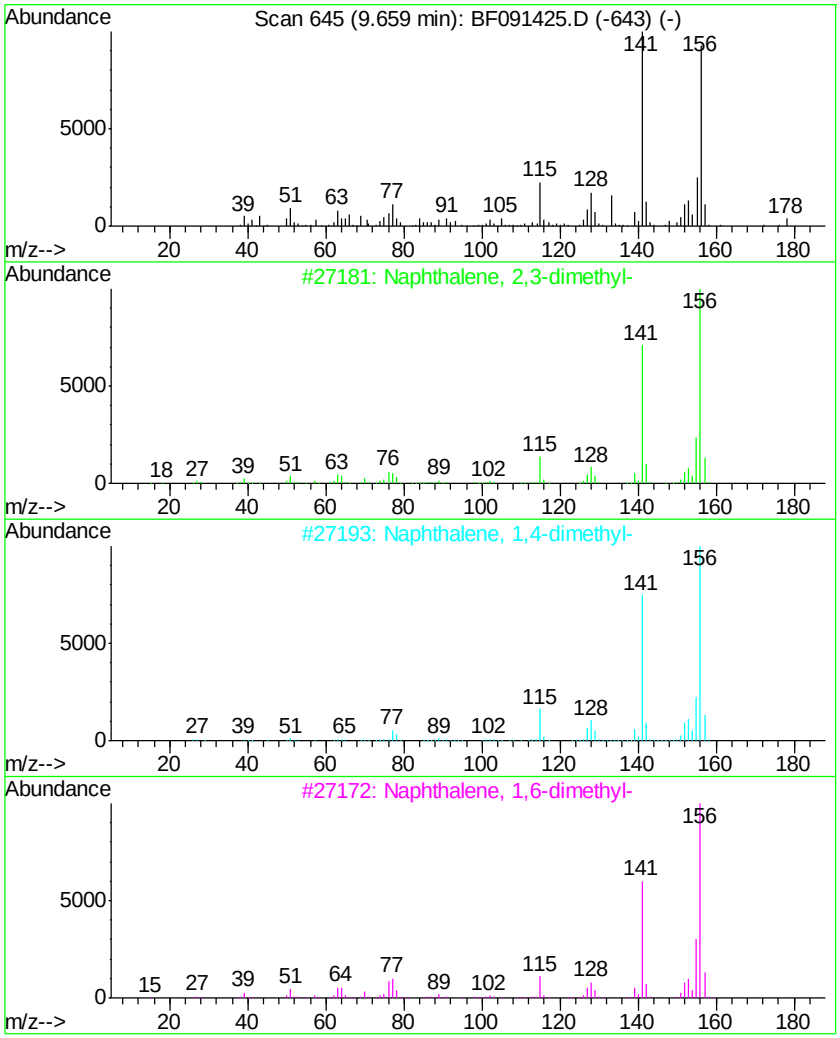
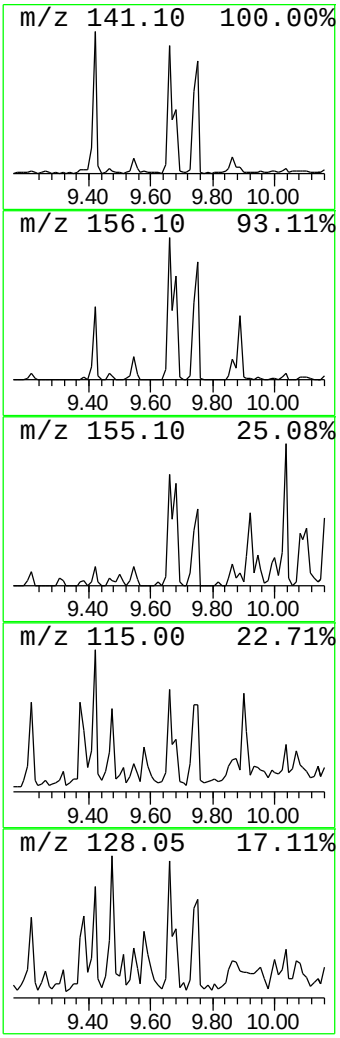
Peak Number 13 Naphthalene, 2,3-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	4.85 ng	419445	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	95





Library Search Compound Report

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Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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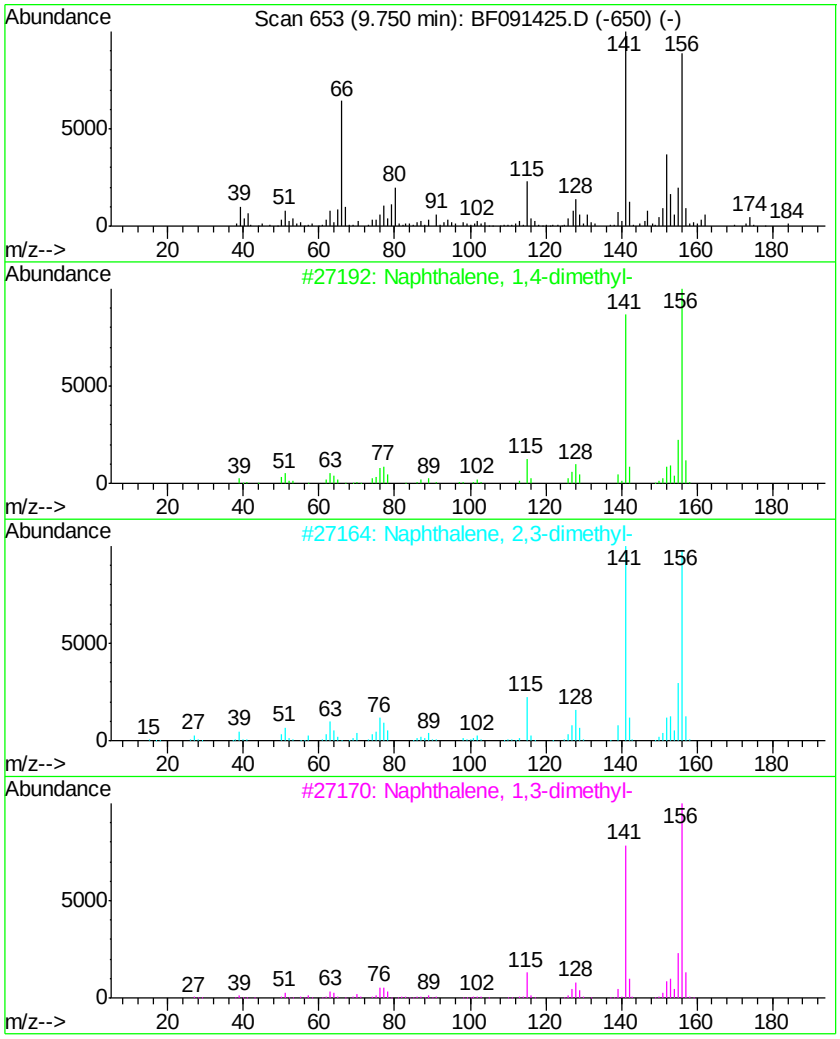
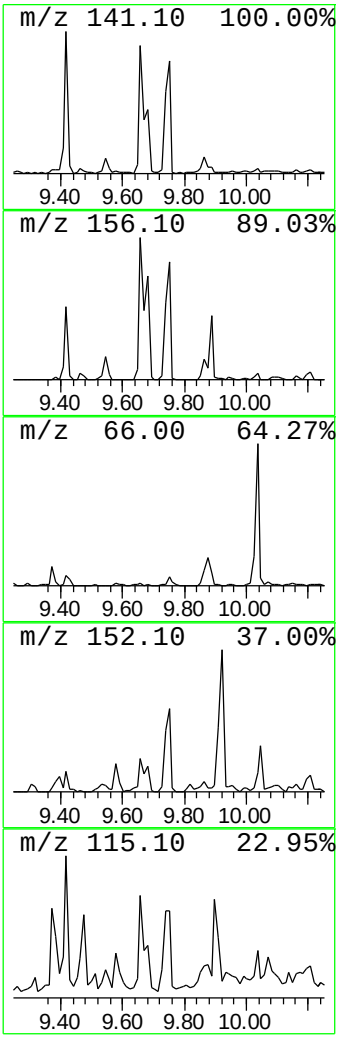
Peak Number 14 Naphthalene, 1,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	5.28 ng	456941	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	90
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	90
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	89
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	87
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	87





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Misc :
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Instrument : BNA_F
ClientSampleId : MW-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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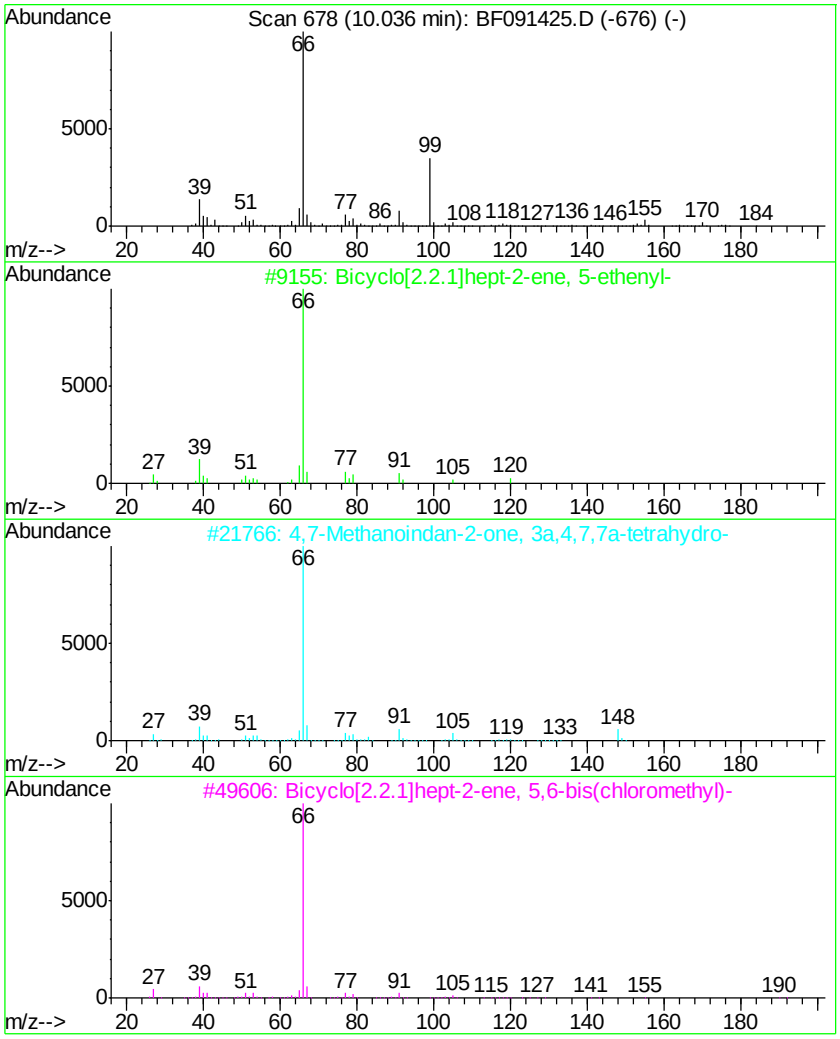
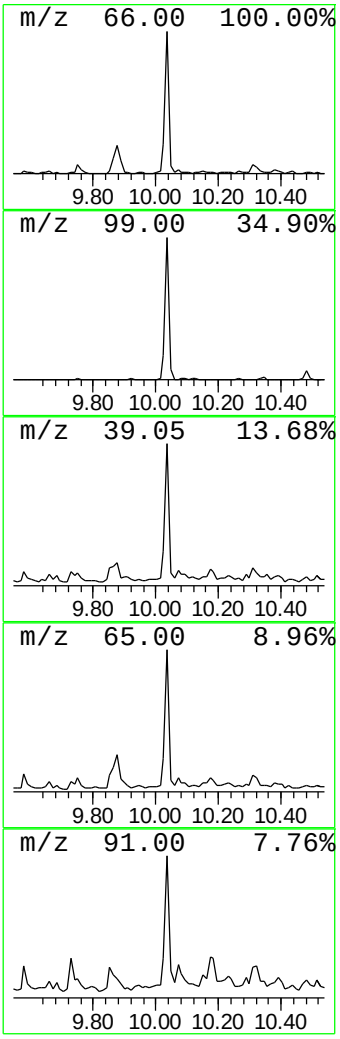
Peak Number 15 Bicyclo[2.2.1]hept-2-ene, 5... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	14.01 ng	1212390	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]hept-2-ene, 5-ethe...	120	C9H12	003048-64-4	78
2	4,7-Methanoindan-2-one, 3a,4,7,7...	148	C10H12O	091060-78-5	78
3	Bicyclo[2.2.1]hept-2-ene, 5,6-bi...	190	C9H12Cl2	005992-56-3	78
4	2-Methylbicyclo[2.2.1]-5-heptene...	152	C9H12O2	000825-03-6	78
5	5-Norbornene-2,3-diacetonitrile	172	C11H12N2	101832-55-7	78





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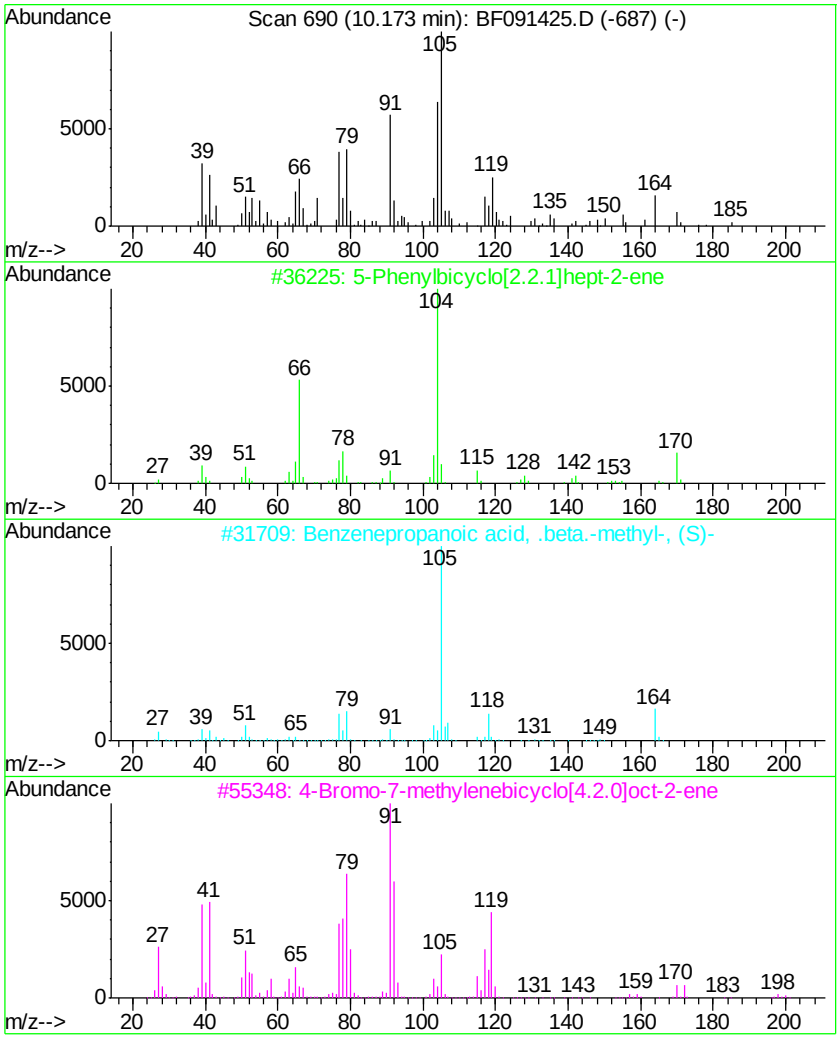
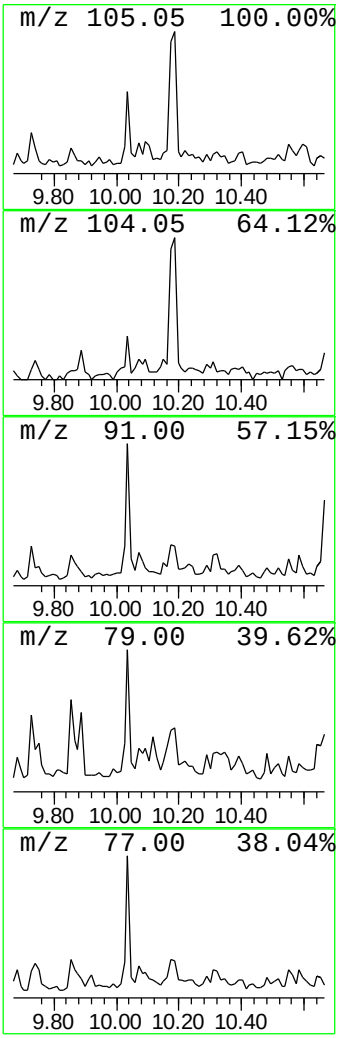
Peak Number 16 unknown10.17 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.17	6.21 ng	537003	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Phenylbicyclo[2.2.1]hept-2-ene	170	C13H14	006143-30-2	43
2	Benzenepropanoic acid, .beta.-me...	164	C10H12O2	000772-15-6	30
3	4-Bromo-7-methylenebicyclo[4.2.0...	198	C9H11Br	1000211-10-2	27
4	Benzeneethanol, 2-methyl-	136	C9H12O	019819-98-8	25
5	2,5-Norbornadiene	92	C7H8	000121-46-0	18





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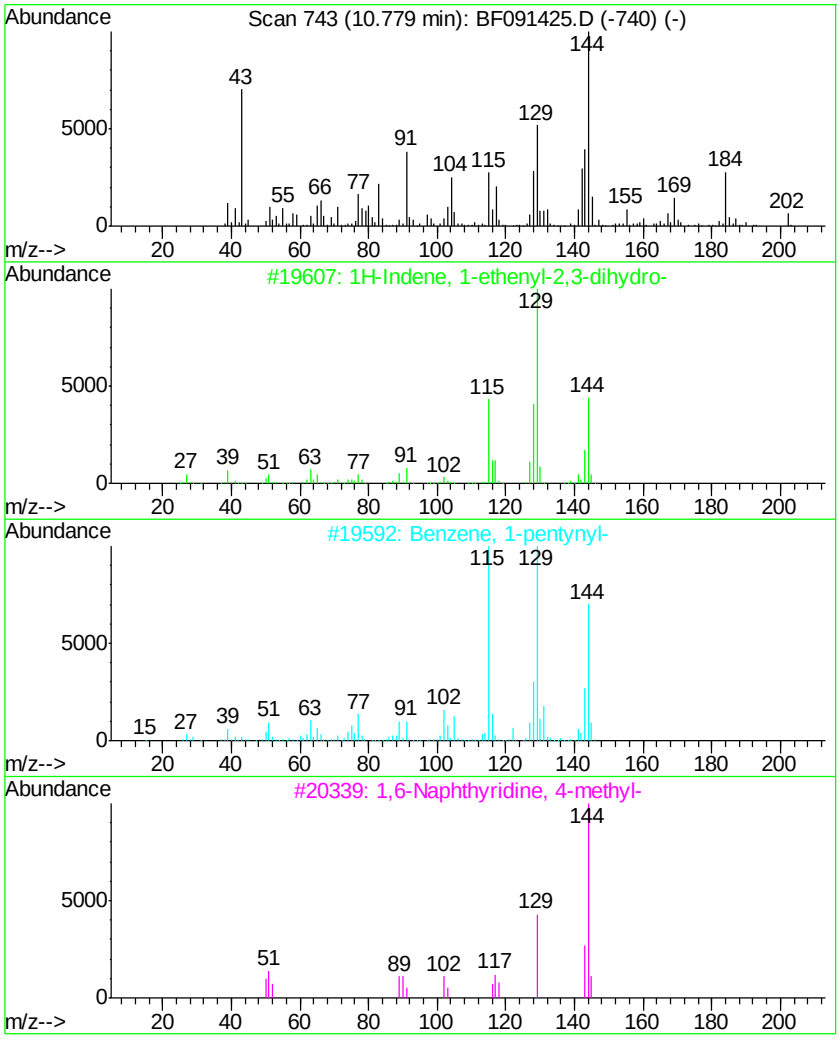
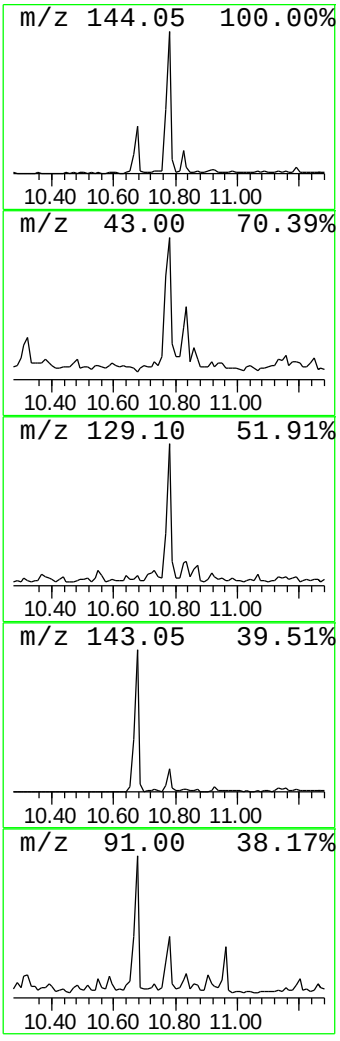
Peak Number 17 1H-Indene, 1-ethenyl-2,3-di... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	9.06 ng	632886	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-ethenyl-2,3-dihydro-	144	C11H12	051783-46-1	64
2	Benzene, 1-pentynyl-	144	C11H12	004250-81-1	60
3	1,6-Naphthyridine, 4-methyl-	144	C9H8N2	007675-30-1	47
4	1H-Indene, 4,7-dimethyl-	144	C11H12	006974-97-6	46
5	(1-Methylbuta-1,3-dienyl)benzene	144	C11H12	054758-36-0	43





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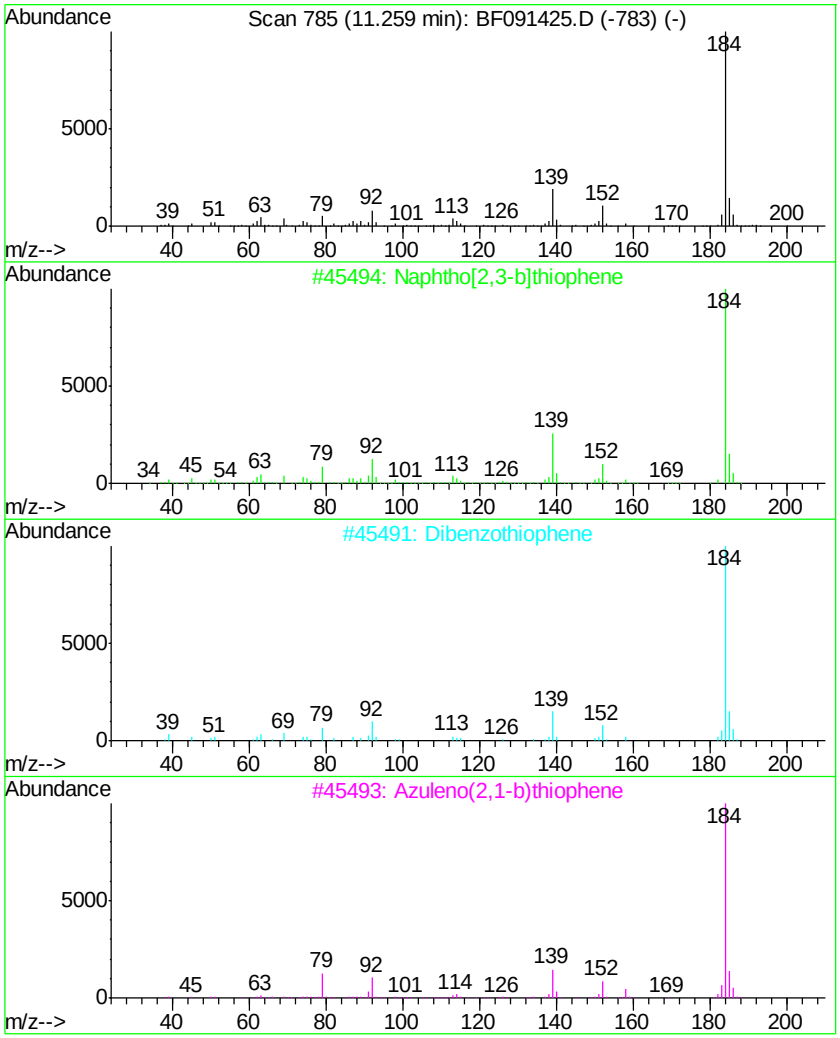
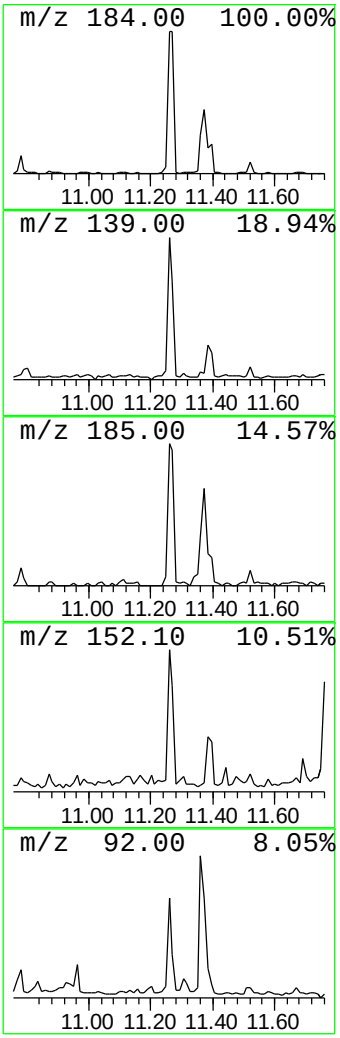
Peak Number 18 Naphtho[2,3-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	7.18 ng	501444	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	2,7-Diamino-quinoline-3-carbonit...	184	C10H8N4	1000187-24-4	59
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	50





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Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

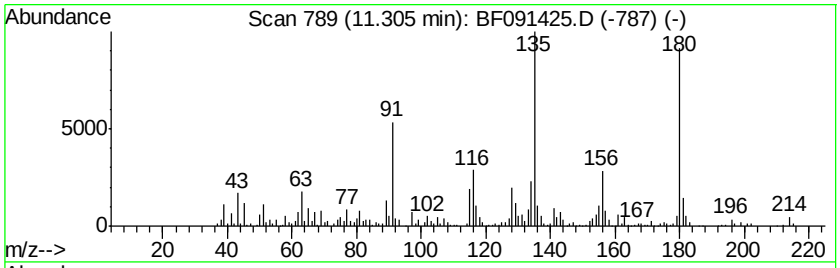
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

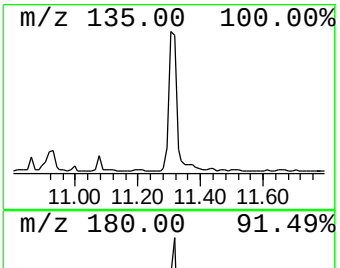
****

Peak Number 19 unknown11.30 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	7.78 ng	543860	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Methylenedioxyphenylacetic acid	180	C9H8O4	002861-28-1	49
2	7H-Purine, 7-methyl-6-(methylthio)-	180	C7H8N4S	001008-01-1	38
3	3-(Phenylthio)acrylic acid	180	C9H8O2S	000706-01-4	27
4	Phenazine	180	C12H8N2	000092-82-0	18
5	Thieno[3,2-c]pyridine	135	C7H5NS	000272-14-0	18





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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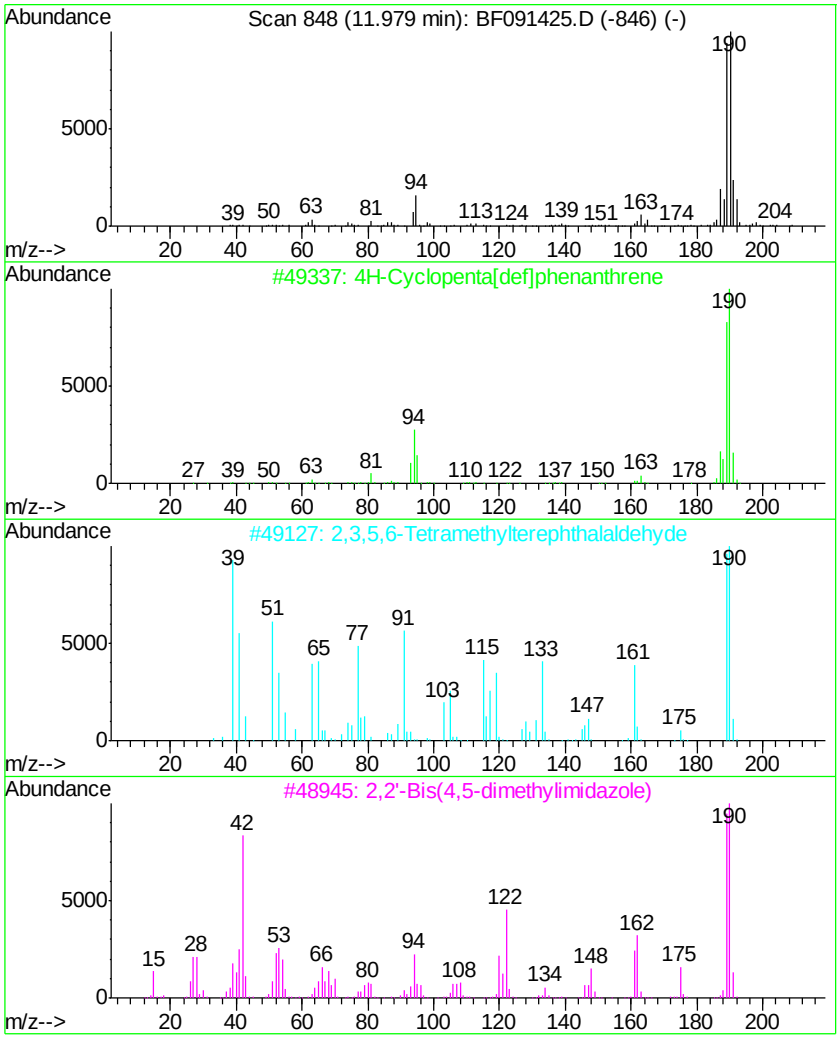
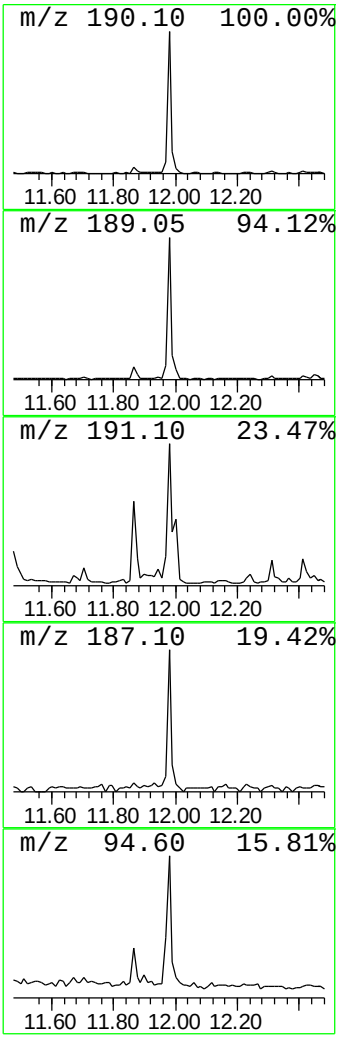
Peak Number 20 4H-Cyclopenta[def]phenanthrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.14 ng	288958	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
5	Methyl diselenide	190	C2H6Se2	007101-31-7	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120516\
Data File : BF091425.D
Acq On : 5 Dec 2016 18:37
Operator : UM/SJ
Sample : H5838-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.03	15.3	ng	628871	1	6.85	822364	20.0
unknown6.62	6.62	99.1	ng	4073520	1	6.85	822364	20.0
Bicyclo[2.2.1]hep...	7.92	5.7	ng	524799	2	8.14	1833750	20.0
2-Bicyclo[2.2.1]h...	8.04	16.1	ng	1476600	2	8.14	1833750	20.0
Benzo[b]thiophene...	8.80	8.3	ng	757140	2	8.14	1833750	20.0
4,7-Methano-1H-in...	8.92	13.4	ng	1226190	2	8.14	1833750	20.0
unknown8.98	8.98	8.7	ng	793126	2	8.14	1833750	20.0
Bicyclo[2.2.2]oct...	9.13	7.6	ng	658510	3	9.89	1730830	20.0
4,7-Methano-1H-in...	9.37	6.3	ng	541474	3	9.89	1730830	20.0
Naphthalene, 2-et...	9.42	4.5	ng	384966	3	9.89	1730830	20.0
Benzo[b]thiophene...	9.48	4.0	ng	347036	3	9.89	1730830	20.0
Naphthalene, 2,3-...	9.66	4.8	ng	419445	3	9.89	1730830	20.0
Naphthalene, 1,4-...	9.75	5.3	ng	456941	3	9.89	1730830	20.0
Bicyclo[2.2.1]hep...	10.04	14.0	ng	1212390	3	9.89	1730830	20.0
unknown10.17	10.17	6.2	ng	537003	3	9.89	1730830	20.0
1H-Indene, 1-ethe...	10.78	9.1	ng	632886	4	11.37	1397300	20.0
Naphtho[2,3-b]thi...	11.26	7.2	ng	501444	4	11.37	1397300	20.0
unknown11.30	11.30	7.8	ng	543860	4	11.37	1397300	20.0
4H-Cyclopenta[def...	11.98	4.1	ng	288958	4	11.37	1397300	20.0