LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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	245	rBV	510163	668924	11.02%	0.956%
2	5.441	274	276	279	rVB	1851547	2326781	38.35%	3.325%
3	6.470	364	366	369	rVB	1544084	1418647	23.38%	2.027%
4	6.619	376	379	381	rBV	3735004	4078586	67.22%	5.828%
5	6.847	397	399	401	rBV	1125609	947571	15.62%	1.354%
6	6.973	408	410	411	rBV	161028	178204	2.94%	0.255%
7	7.007	411	413	415	rVB	4076541	3854025	63.52%	5.507%
8	7.316	436	440	443	rBV2	35255	65131	1.07%	0.093%
9	7.407	445	448	451	rVV	2397683	3822578	63.00%	5.462%
10	7.499	454	456	458	rVV3	67078	75341	1.24%	0.108%
11	7.556	458	461	464	rVB3	65018	108495	1.79%	0.155%
12	7.785	478	481	483	rVB2	58986	79959	1.32%	0.114%
13	7.876	487	489	491	rVV	236719	234873	3.87%	0.336%
14	7.910	491	492	497	rVB4	257370	565974	9.33%	0.809%
15	8.082	502	507	509	rBV3	92255	184222	3.04%	0.263%
16	8.127	509	511	515	rVB	1095204	1513778	24.95%	2.163%
17	8.207	515	518	520	rBV	529738	555000	9.15%	0.793%
18	8.287	521	525	528	rBV4	66311	150345	2.48%	0.215%
19	8.379	530	533	536	rVB2	175883	275116	4.53%	0.393%
20	8.459	536	540	541	rBV3	66491	89925	1.48%	0.129%
21	8.482	541	542	544	rVB2	53707	73519	1.21%	0.105%
22	8.573	548	550	551	rBV	62928	86064	1.42%	0.123%
23	8.607	551	553	555	rVB2	136706	188417	3.11%	0.269%
24	8.642	555	556	558	rVB2	76564	72719	1.20%	0.104%
25	8.722	560	563	565	rVB	1099447	965170	15.91%	1.379%
26	8.802	568	570	572	rVB	651819	593036	9.77%	0.847%
27	8.847	572	574	577	rBV3	48414	99039	1.63%	0.142%
28	8.939	577	582	584	rBV2	873721	1684072	27.76%	2.406%
29	8.985	584	586	588	rVB2	209365	245180	4.04%	0.350%
30	9.042	588	591	593	rBV4	57543	115229	1.90%	0.165%
31	9.133	595	599	601	rVB2	156034	315675	5.20%	0.451%
32	9.213	603	606	608	rBV	5638913	5457870	89.95%	7.799%
33	9.316	611	615	617	rBV2	133266	185934	3.06%	0.266%
34	9.373	617	620	622	rBV3	238537	410321	6.76%	0.586%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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	9.419	622	624	626	rVB	556199	454801	7.50%	0.650%
36	9.476	626	629	631	rBV2	579330	638542	10.52%	0.912%
37	9.510	631	632	633	rVB	141082	96712	1.59%	0.138%
38	9.545	633	635	637	rVB3	167667	178288	2.94%	0.255%
39	9.579	637	638	642	rVB2	184475	263316	4.34%	0.376%
40	9.659	642	645	648	rBV2	650789	1121965	18.49%	1.603%
41	9.750	650	653	654	rVB	458208	660114	10.88%	0.943%
42	9.785	654	656	660	rBV5	78623	138546	2.28%	0.198%
43	9.888	660	665	666	rBV	1450626	1421997	23.44%	2.032%
44	9.922	666	668	670	rVV	2497437	2227099	36.71%	3.182%
45	10.002	673	675	676	rBV	130414	152494	2.51%	0.218%
46	10.036	676	678	680	rVB2	159452	191464	3.16%	0.274%
47	10.093	680	683	684	rBV	590928	662819	10.92%	0.947%
48	10.128	684	686	688	rBV2	268272	230079	3.79%	0.329%
49	10.208	690	693	694	rBV	290642	418998	6.91%	0.599%
50	10.310	697	702	703	rBV4	271627	551228	9.09%	0.788%
51	10.333	703	704	706	rVB	219641	235109	3.87%	0.336%
52	10.379	706	708	709	rBV2	104511	200474	3.30%	0.286%
53	10.402	709	710	711	rVV	484495	390852	6.44%	0.559%
54	10.436	711	713	715	rVB	1911460	1863225	30.71%	2.662%
55	10.482	715	717	719	rBV2	176329	340530	5.61%	0.487%
56	10.516	719	720	721	rVB	176501	120991	1.99%	0.173%
57	10.562	721	724	725	rBV2	154893	262524	4.33%	0.375%
58	10.676	731	734	736	rVB	3641862	3758966	61.95%	5.371%
59	10.722	736	738	740	rVB2	99823	102072	1.68%	0.146%
60	10.802	740	745	747	rBV	1728441	1794145	29.57%	2.564%
61	10.871	749	751	754	rBV3	122925	174602	2.88%	0.250%
62	10.939	754	757	762	rVV3	327510	785804	12.95%	1.123%
63	11.008	762	763	765	rVV	199743	187285	3.09%	0.268%
64	11.065	766	768	770	rVB	258860	247010	4.07%	0.353%
65	11.156	775	776	781	rVB2	219955	291590	4.81%	0.417%
66	11.271	783	786	788	rBV2	512125	829205	13.67%	1.185%
67	11.328	788	791	793	rVV	903658	1391004	22.93%	1.988%
68	11.373	793	795	798	rVV	1799559	2484180	40.94%	3.550%
69	11.442	800	801	802	rVV	207152	188334	3.10%	0.269%
70	11.476	802	804	805	rVV	608430	820733	13.53%	1.173%
71	11.499	805	806	811	rVB2	538962	869434	14.33%	1.242%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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	11.591	812	814	816	rBV2	47885	72017	1.19%	0.103%
73	11.625	816	817	818	rVB	91900	63043	1.04%	0.090%
74	11.693	821	823	824	rVV2	67729	70070	1.15%	0.100%
75	11.728	824	826	827	rVV	220098	207992	3.43%	0.297%
76	11.751	827	828	833	rVB4	109785	241717	3.98%	0.345%
77	11.842	833	836	837	rBV3	63908	97309	1.60%	0.139%
78	11.899	837	841	843	rBV5	165897	369945	6.10%	0.529%
79	11.945	843	845	846	rVB2	68936	87185	1.44%	0.125%
80	11.979	846	848	851	rBV2	414555	499288	8.23%	0.713%
81	12.048	851	854	858	rVB2	202928	307236	5.06%	0.439%
82	12.128	860	861	863	rBV2	65946	104015	1.71%	0.149%
83	12.254	870	872	876	rVB5	77051	130886	2.16%	0.187%
84	12.414	883	886	888	rBV3	74692	107370	1.77%	0.153%
85	12.459	888	890	892	rVV2	71693	83950	1.38%	0.120%
86	12.516	894	895	899	rVV3	74643	90636	1.49%	0.130%
87	12.574	899	900	903	rVB	203068	161510	2.66%	0.231%
88	12.688	908	910	914	rVV3	141023	240928	3.97%	0.344%
89	12.802	918	920	924	rVB	290104	278934	4.60%	0.399%
90	12.962	931	934	936	rBV	5136307	6067347	100.00%	8.670%
91	13.557	983	986	987	rVB2	47225	74016	1.22%	0.106%
92	14.002	1022	1025	1027	rBV	1102075	1264615	20.84%	1.807%
93	15.420	1146	1149	1152	rBV	656509	928222	15.30%	1.326%

Sum of corrected areas: 69980482

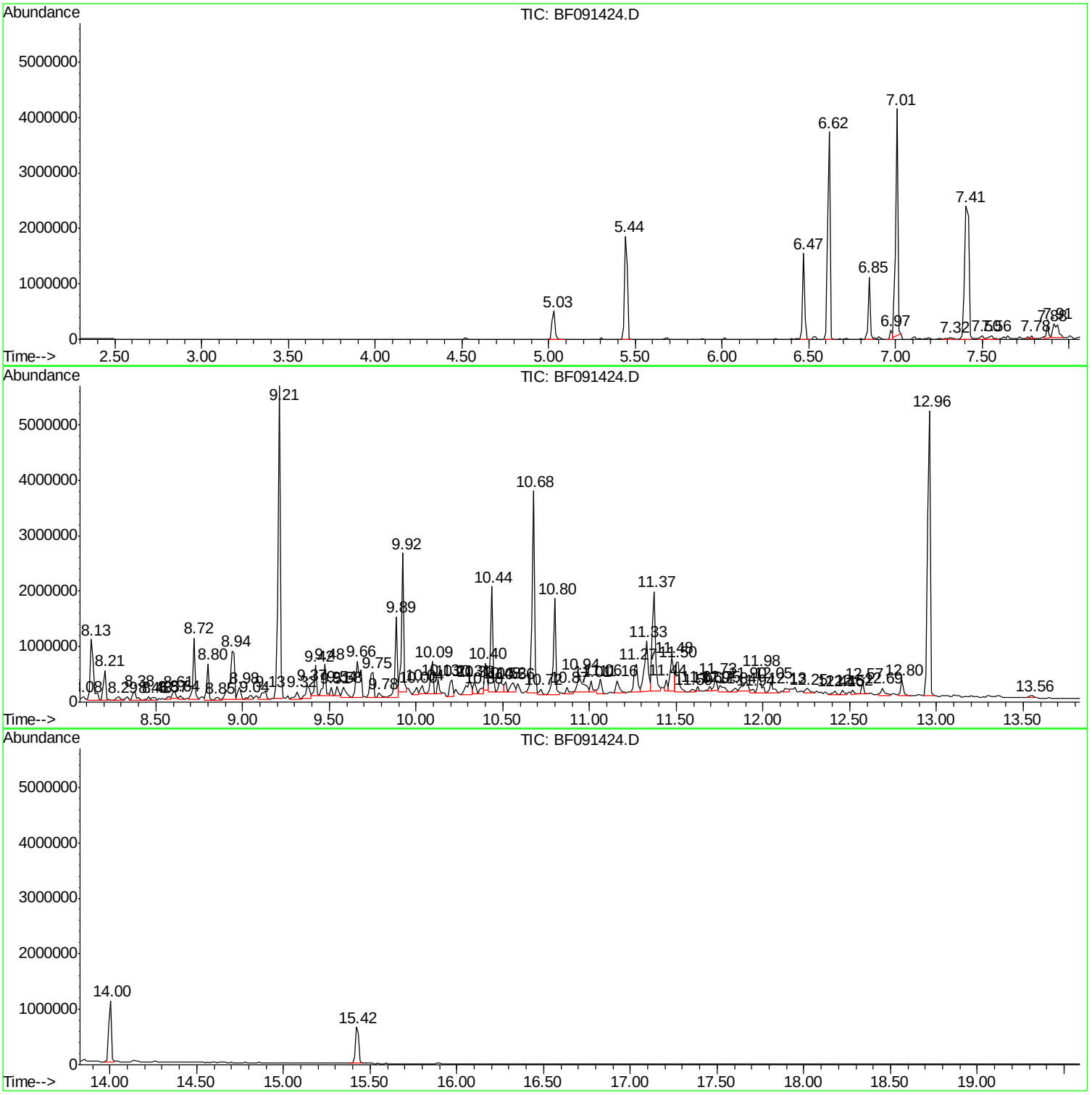
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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 : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

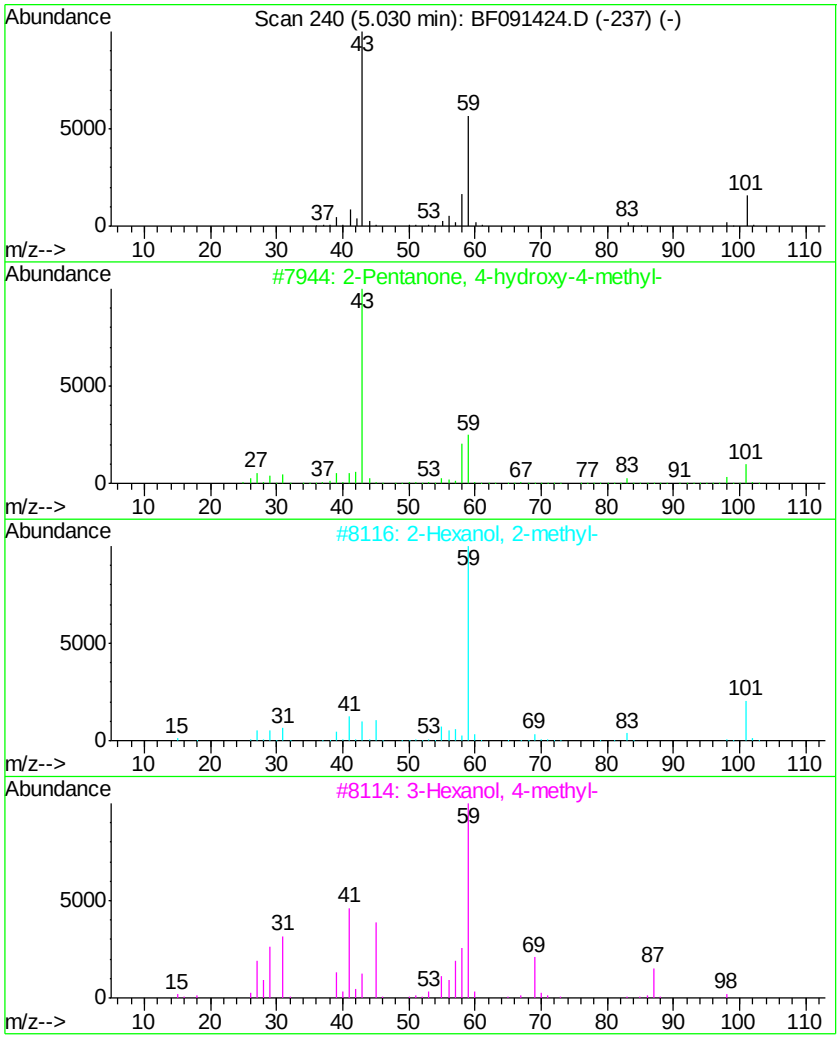
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

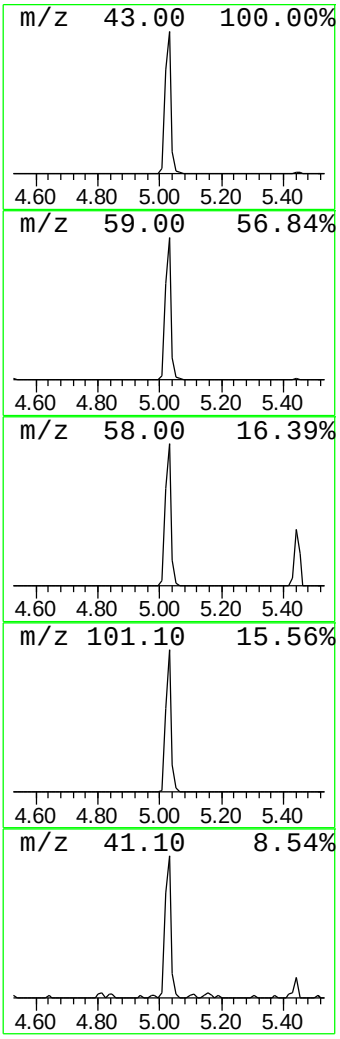
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.03	14.12 ng	668924	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	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

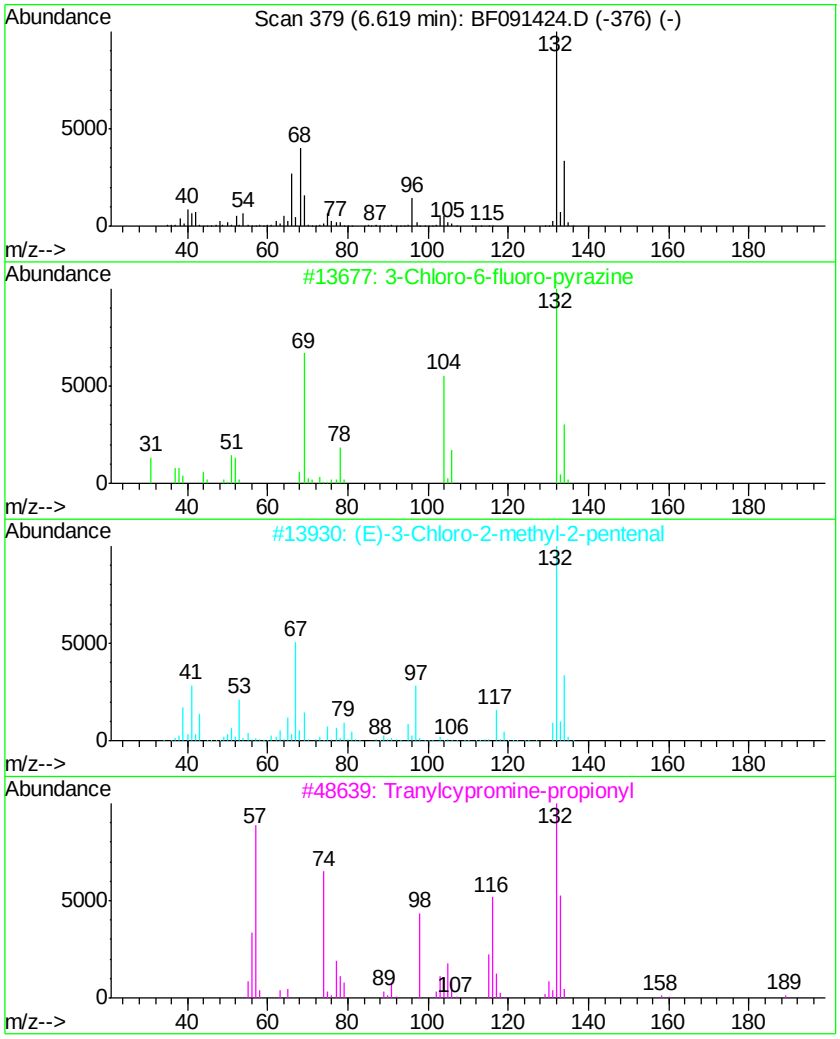
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

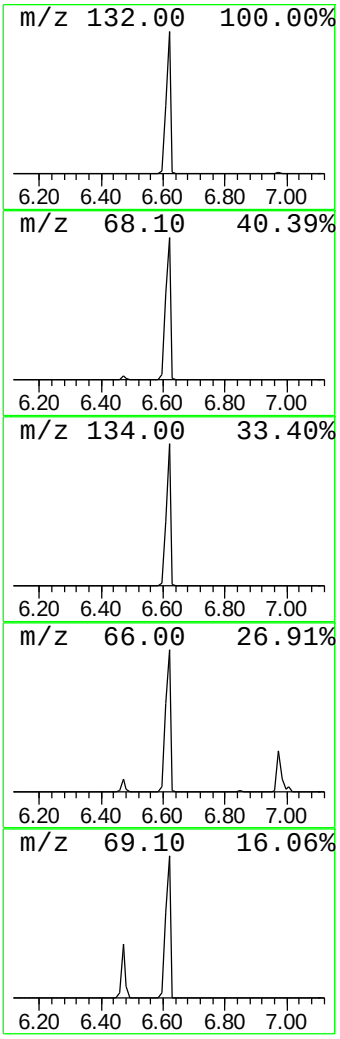
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	86.09 ng	4078590	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	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

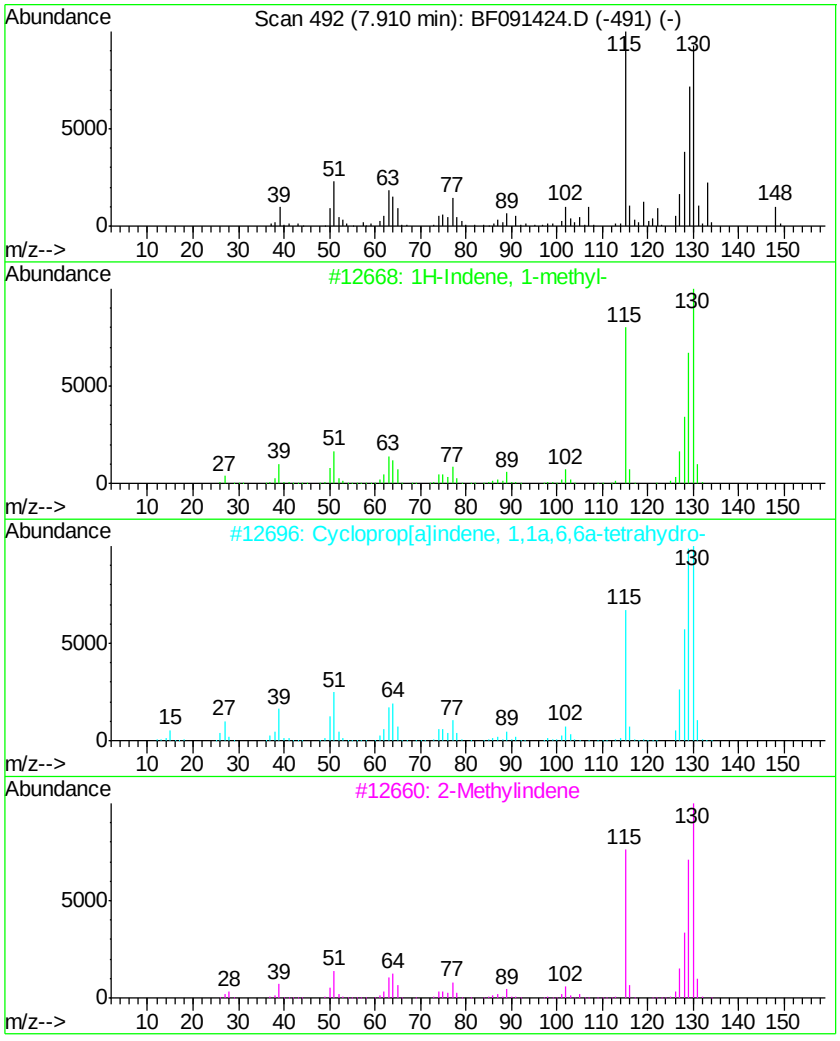
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

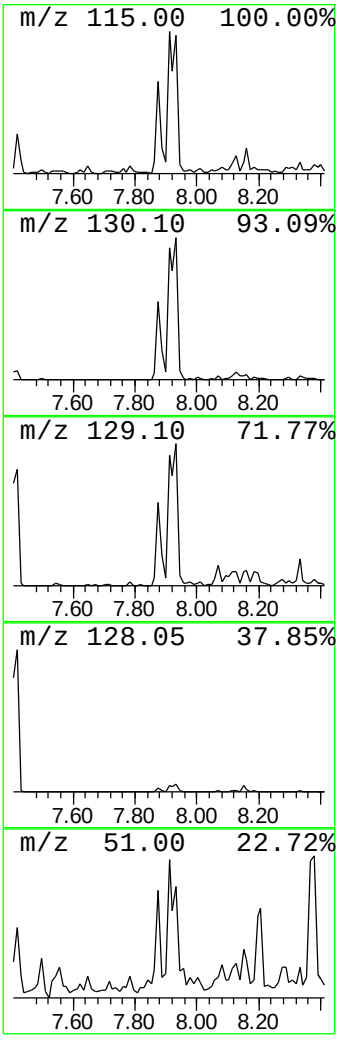
****

Peak Number 4 1H-Indene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	7.48 ng	565974	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
2	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	95
3	2-Methylindene	130	C10H10	002177-47-1	95
4	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	94
5	1H-Indene, 3-methyl-	130	C10H10	000767-60-2	94





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

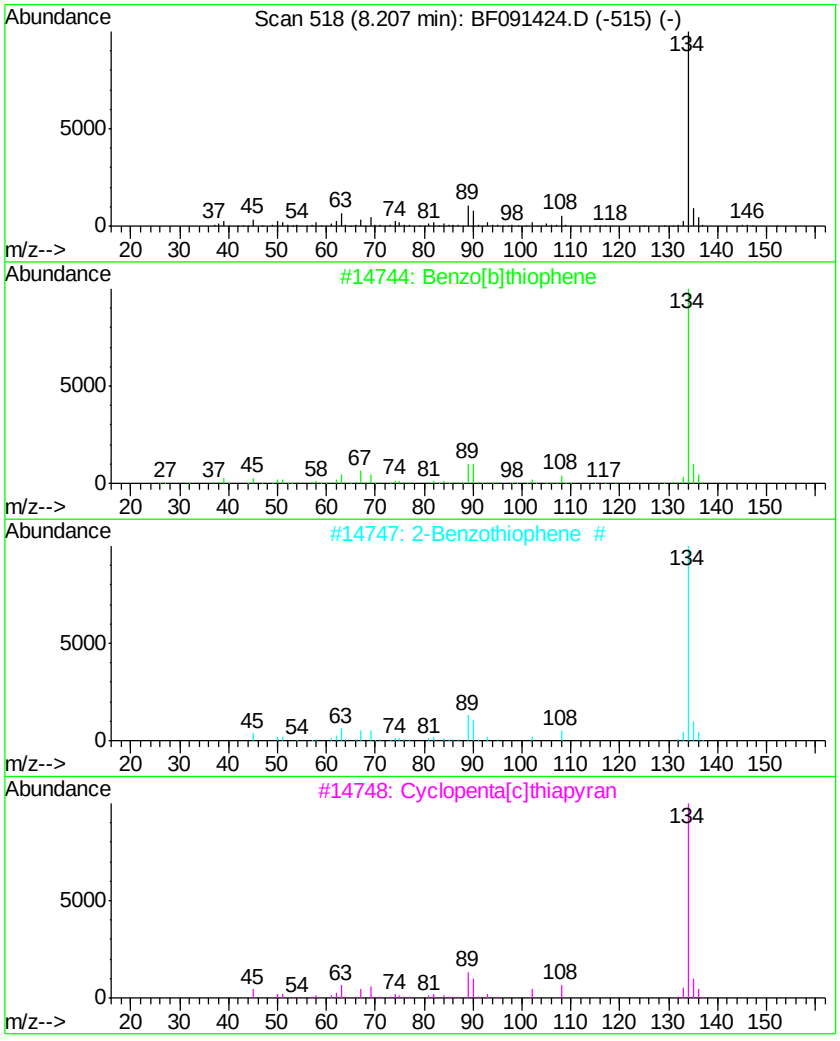
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

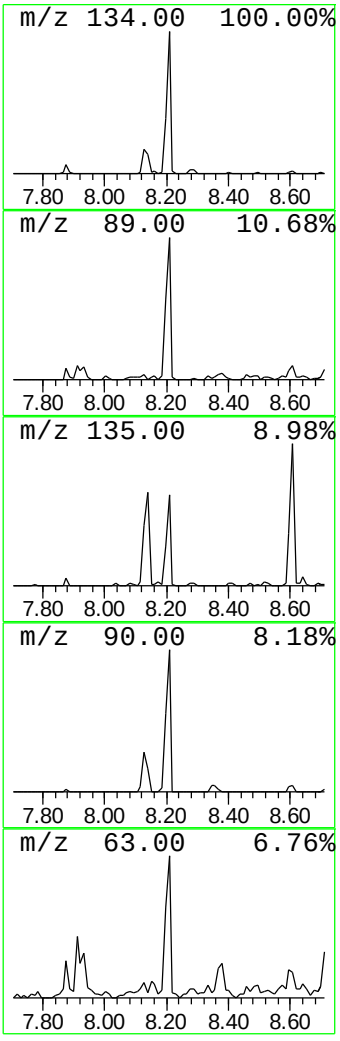
****

Peak Number 5 Benzo[b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.21	7.33 ng	555000	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
2	2-Benzothiophene #	134	C8H6S	000270-82-6	91
3	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	91
4	Thiazolidin-4-one, 5-benzylideno...	287	C13H9N3OS2	351062-07-2	72
5	Cyclopenta[b]thiapyran	134	C8H6S	000271-17-0	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

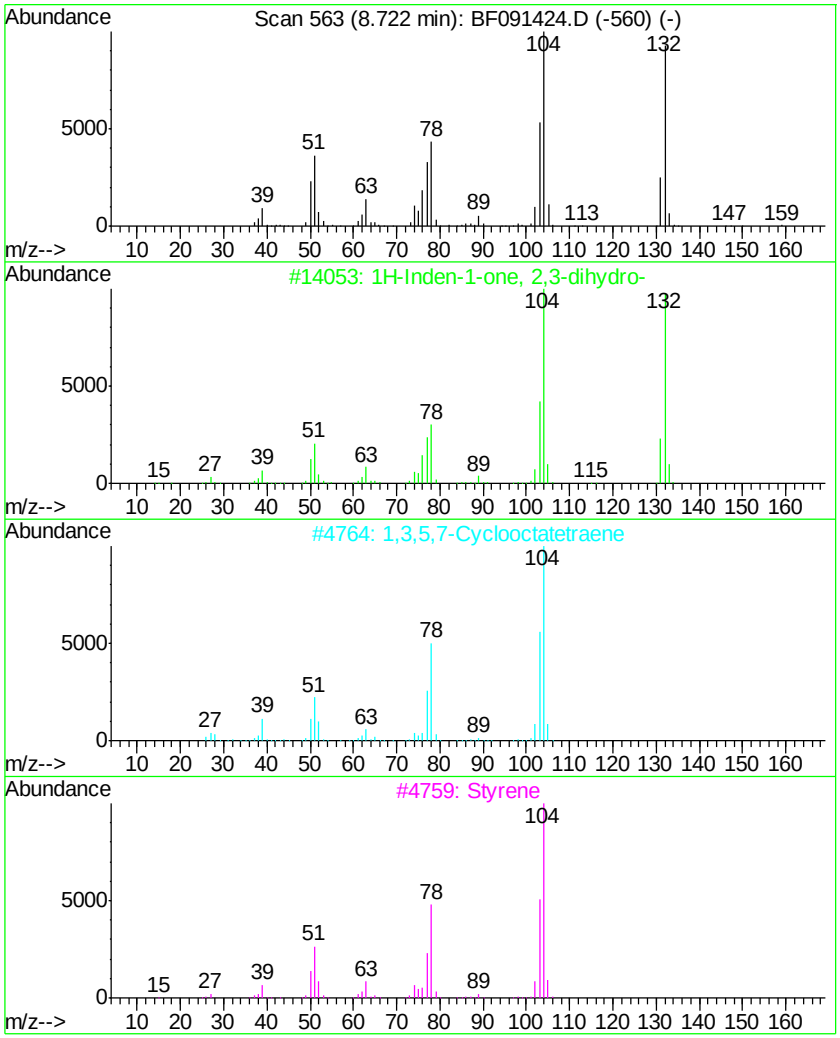
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

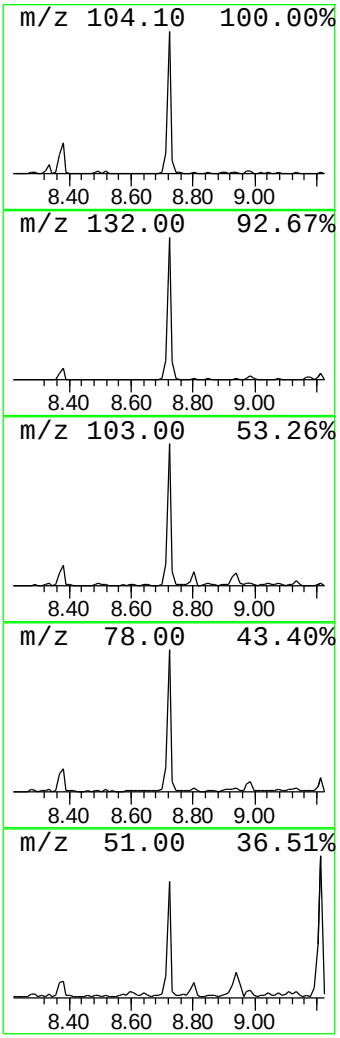
****

Peak Number 6 1H-Inden-1-one, 2,3-dihydro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.72	12.75 ng	965170	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Inden-1-one, 2,3-dihydro-	132	C9H8O	000083-33-0	94
2	1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	70
3	Styrene	104	C8H8	000100-42-5	70
4	2H-Inden-2-one, 1,3-dihydro-	132	C9H8O	000615-13-4	64
5	Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

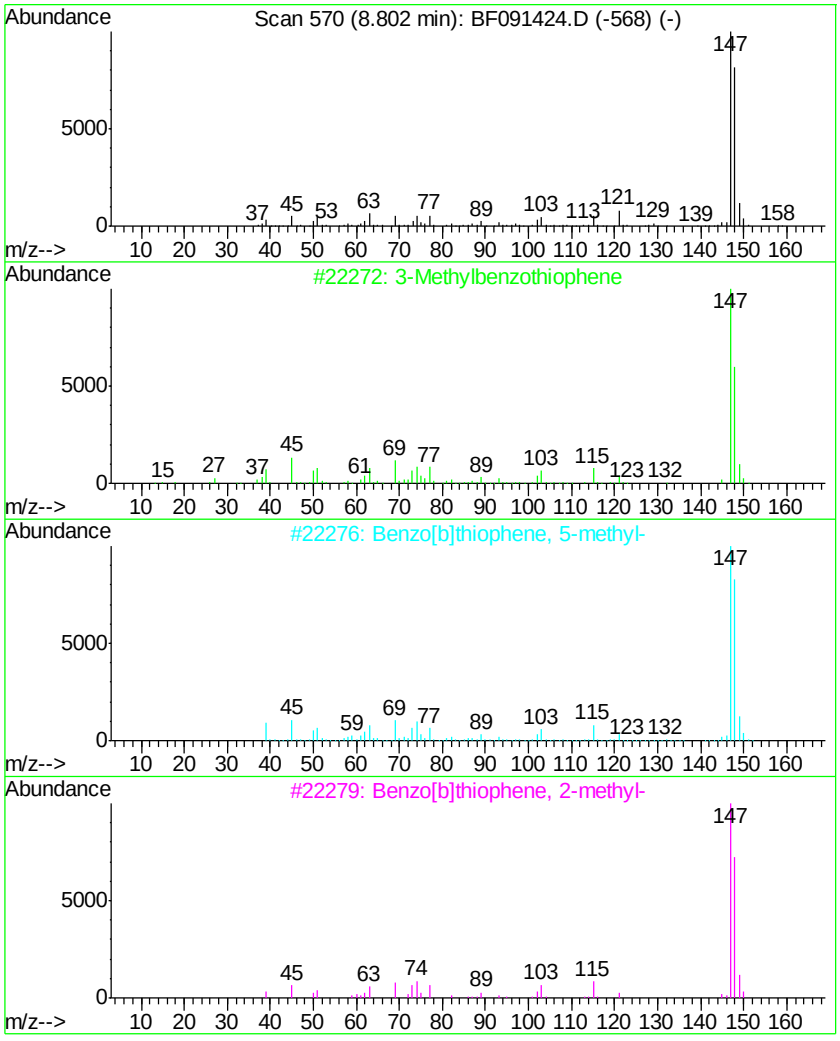
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

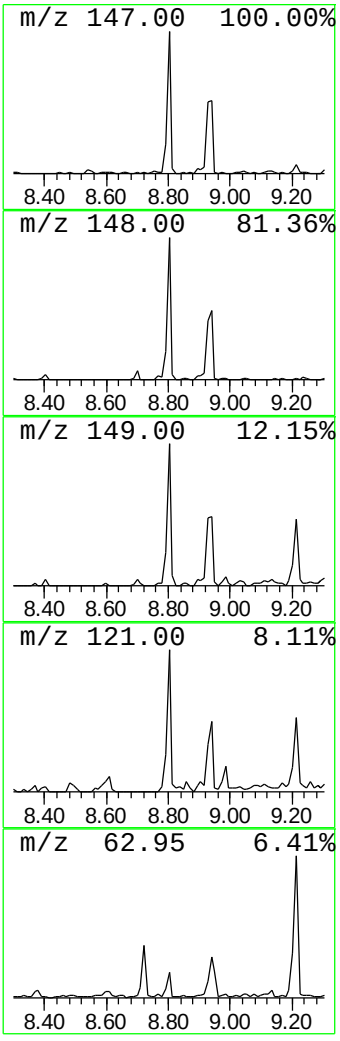
****

Peak Number 7 3-Methylbenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.80	7.84 ng	593036	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylbenzothiophene	148	C9H8S	001455-18-1	91
2	Benzo[b]thiophene, 5-methyl-	148	C9H8S	014315-14-1	91
3	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	91
4	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	91
5	Benzaldehyde, 2,4,5-trimethyl-	148	C10H12O	005779-72-6	80





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

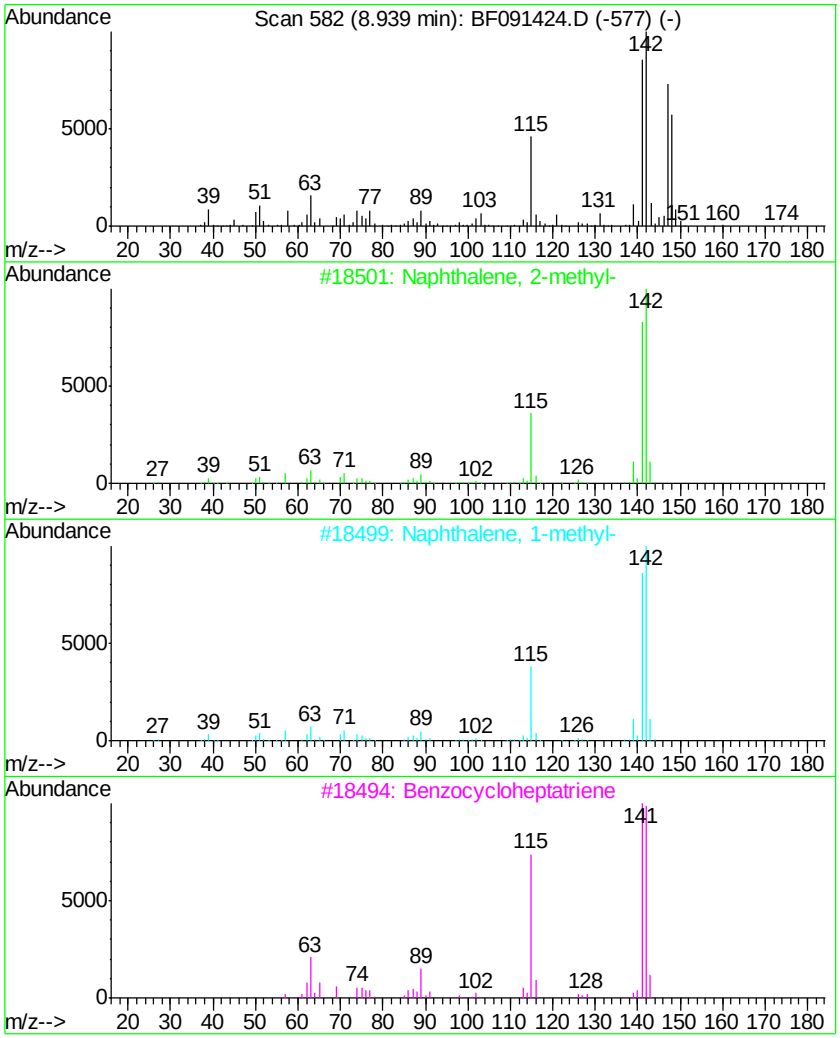
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

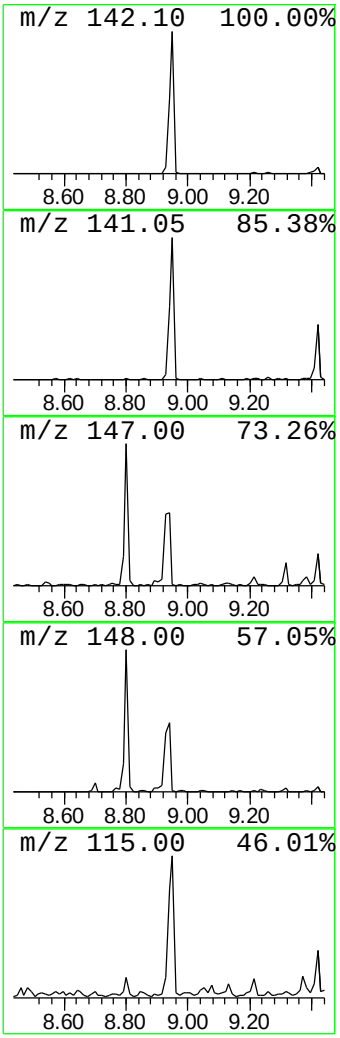
****

Peak Number 8 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.94	22.25 ng	1684070	Naphthalene-d8	8.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	92
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	92
3	Benzocycloheptatriene	142	C11H10	000264-09-5	90
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	78
5	2-Propenoic acid, 3-phenyl-	148	C9H8O2	000621-82-9	38





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

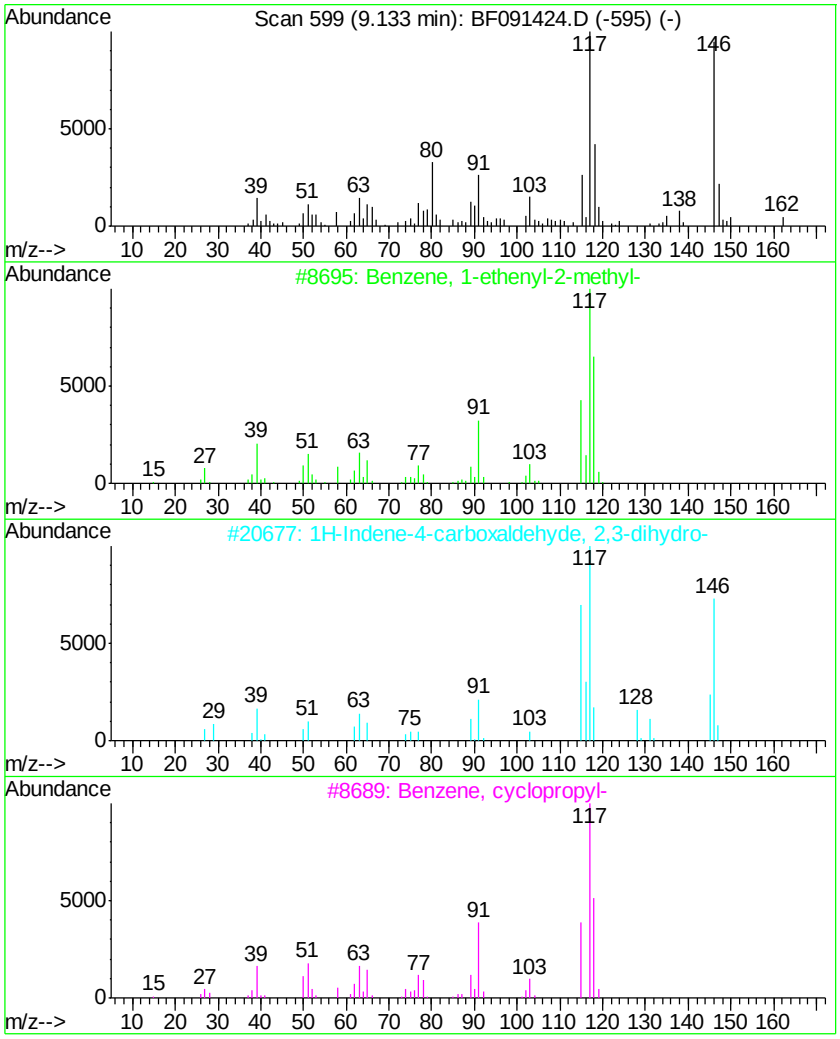
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

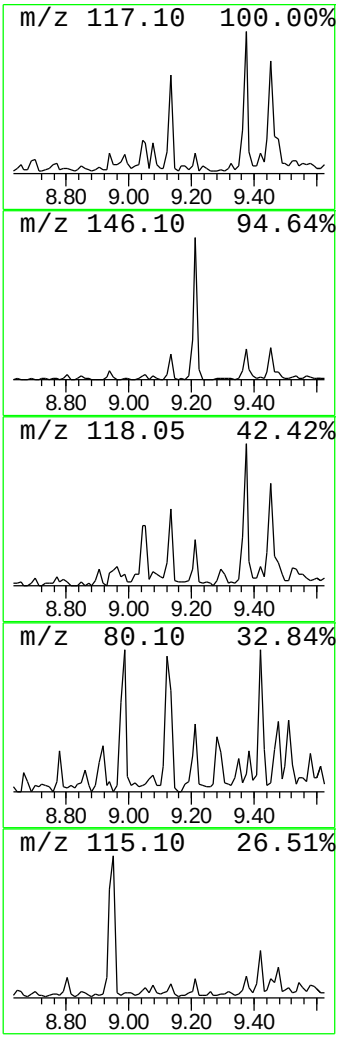
****

Peak Number 9 Benzene, 1-ethenyl-2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.13	4.44 ng	315675	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64
2	1H-Indene-4-carboxaldehyde, 2,3-...	146	C10H10O	051932-70-8	49
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	46
4	Deltacyclene	118	C9H10	007785-10-6	38
5	4-Hydroxy-1,8-naphthyridine	146	C8H6N2O	054569-29-8	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

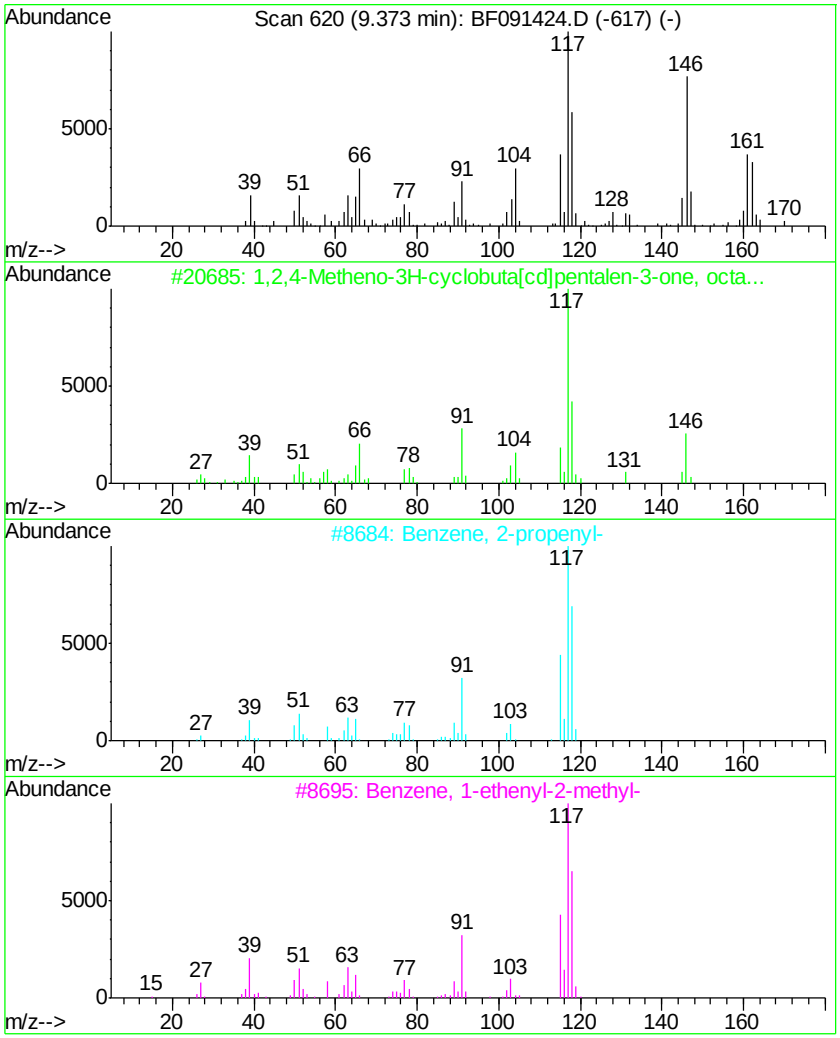
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

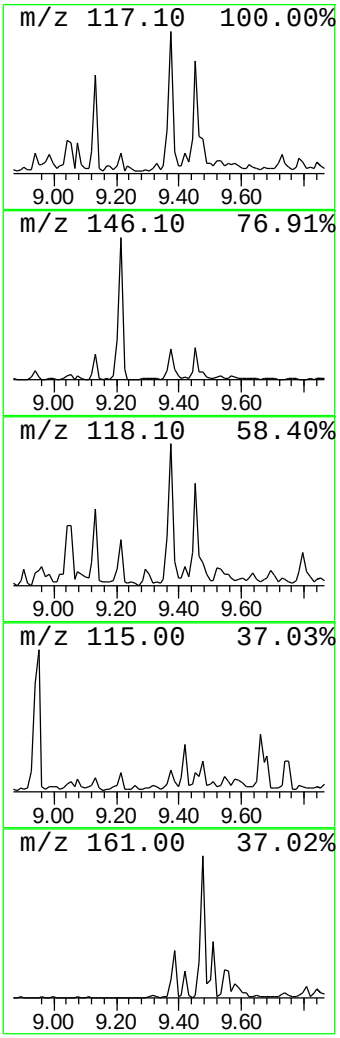
****

Peak Number 10 1,2,4-Metheno-3H-cyclobuta[... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	5.77 ng	410321	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4-Metheno-3H-cyclobuta[cd]pe...	146	C10H10O	015584-52-8	72
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	60
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	60
4	Benzene, 1-pentenyl-	146	C11H14	000826-18-6	55
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

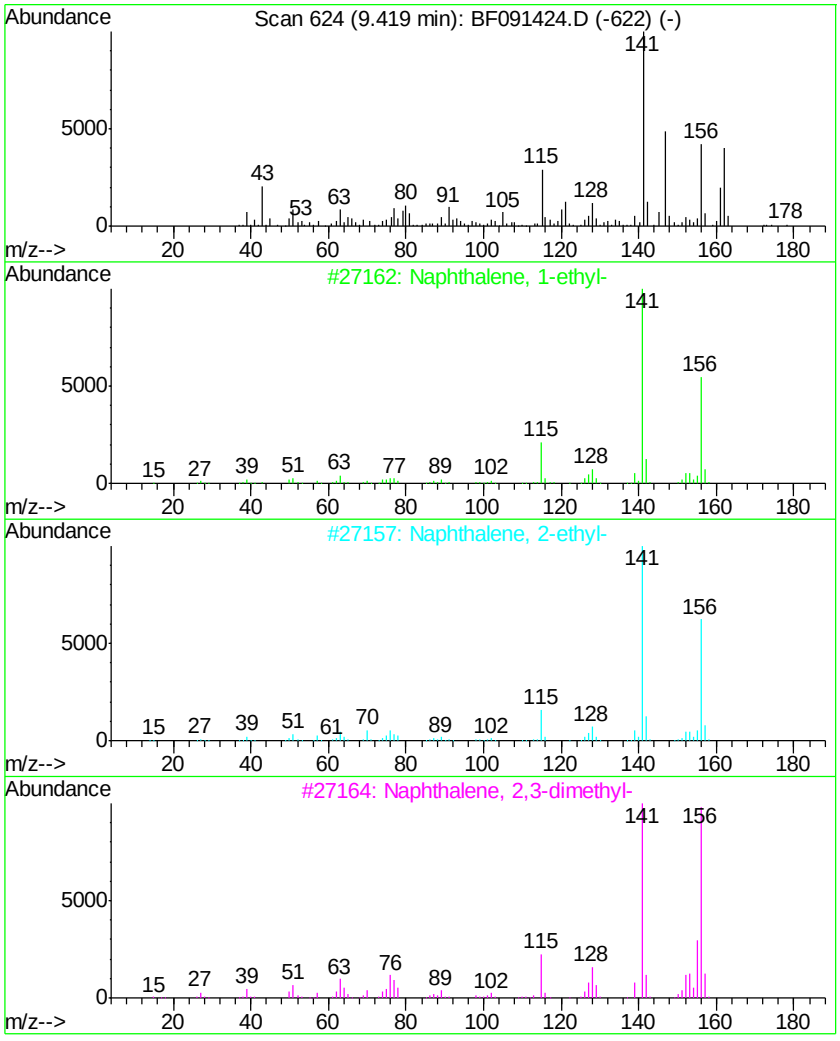
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

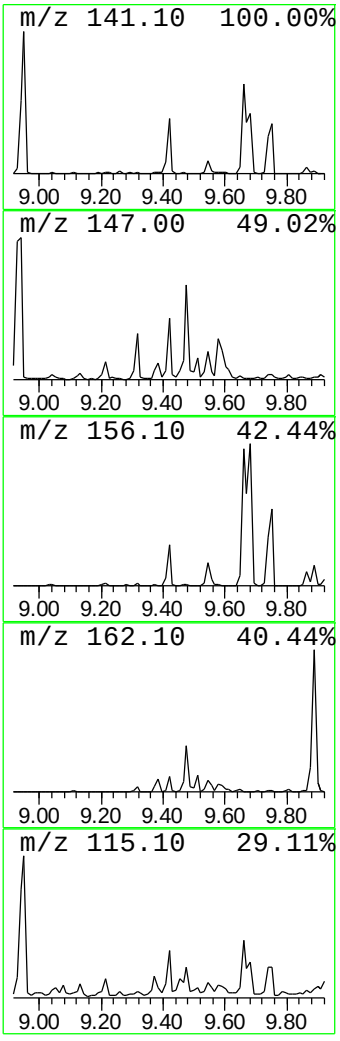
****

Peak Number 11 Naphthalene, 1-ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	6.40 ng	454801	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	90
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	70
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	38
4	3',4'-Difluoroacetophenone	156	C8H6F2O	000369-33-5	35
5	2',5'-Difluoroacetophenone	156	C8H6F2O	001979-36-8	35





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

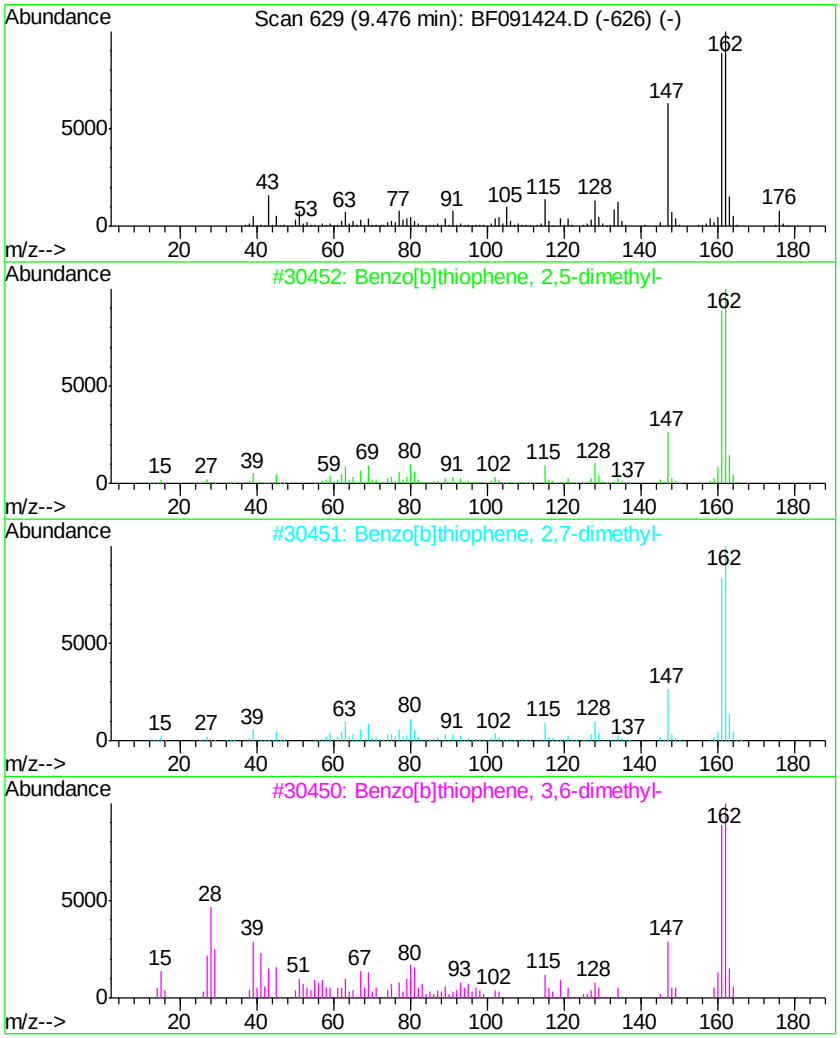
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

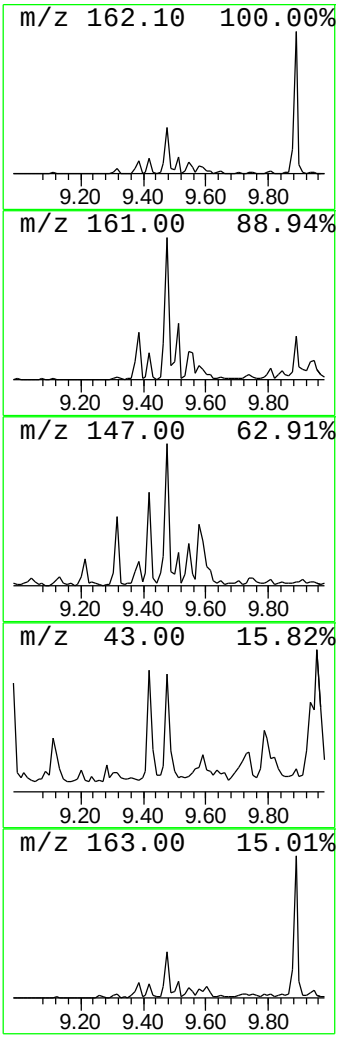
****

Peak Number 12 Benzo[b]thiophene, 2,5-dime... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.48	8.98 ng	638542	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]thiophene, 2,5-dimethyl-	162	C10H10S	016587-48-7	81
2	Benzo[b]thiophene, 2,7-dimethyl-	162	C10H10S	016587-40-9	81
3	Benzo[b]thiophene, 3,6-dimethyl-	162	C10H10S	016587-50-1	72
4	Anisole, p-(1-ethylvinyl)-	162	C11H14O	021758-19-0	53
5	1,4-Benzenedicarboxaldehyde, 2,5...	162	C10H10O2	007044-92-0	52





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

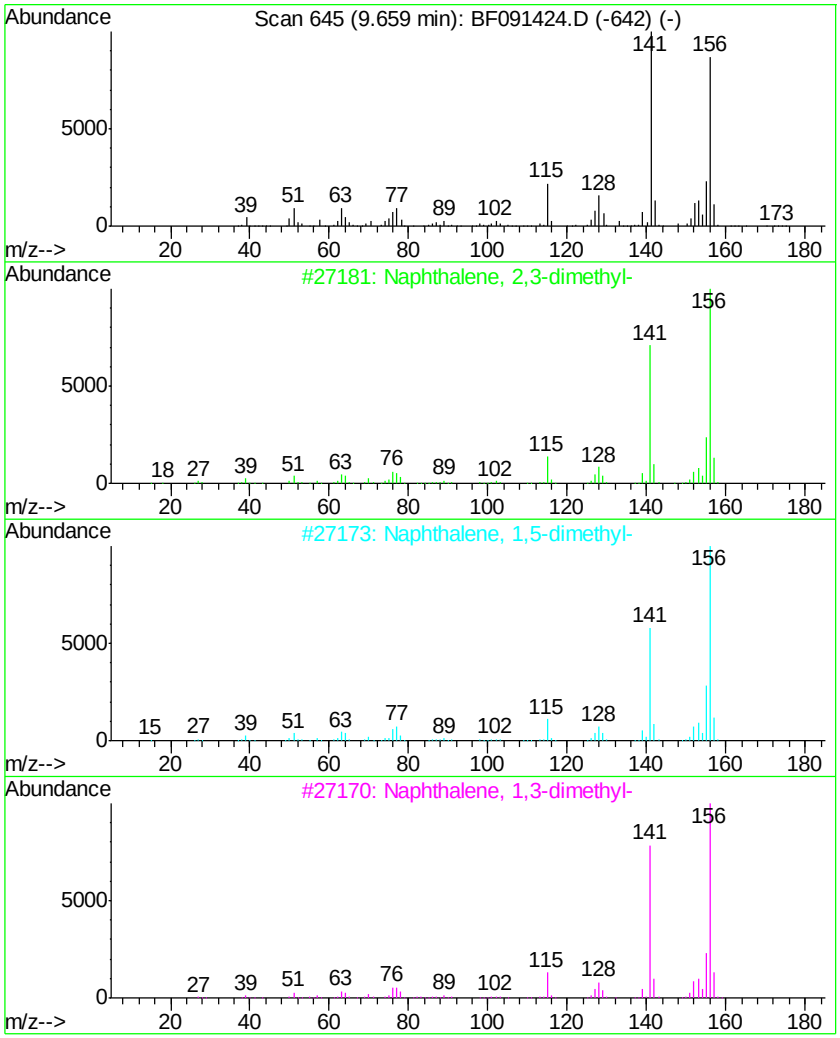
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

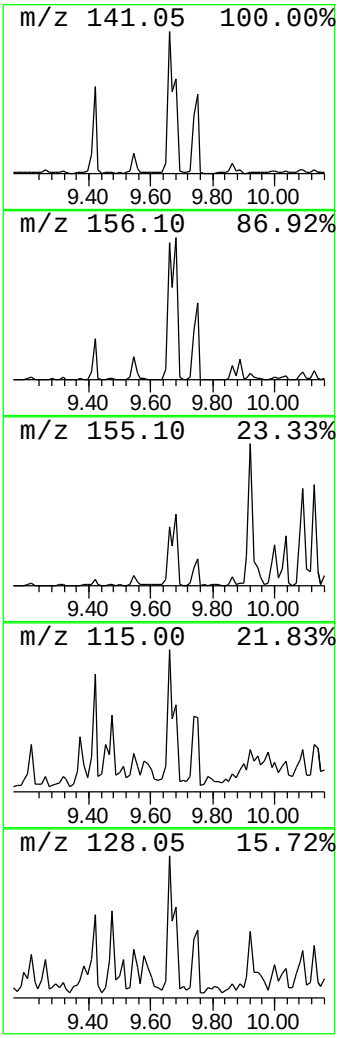
****

Peak Number 13 Naphthalene, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	15.78 ng	1121970	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, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

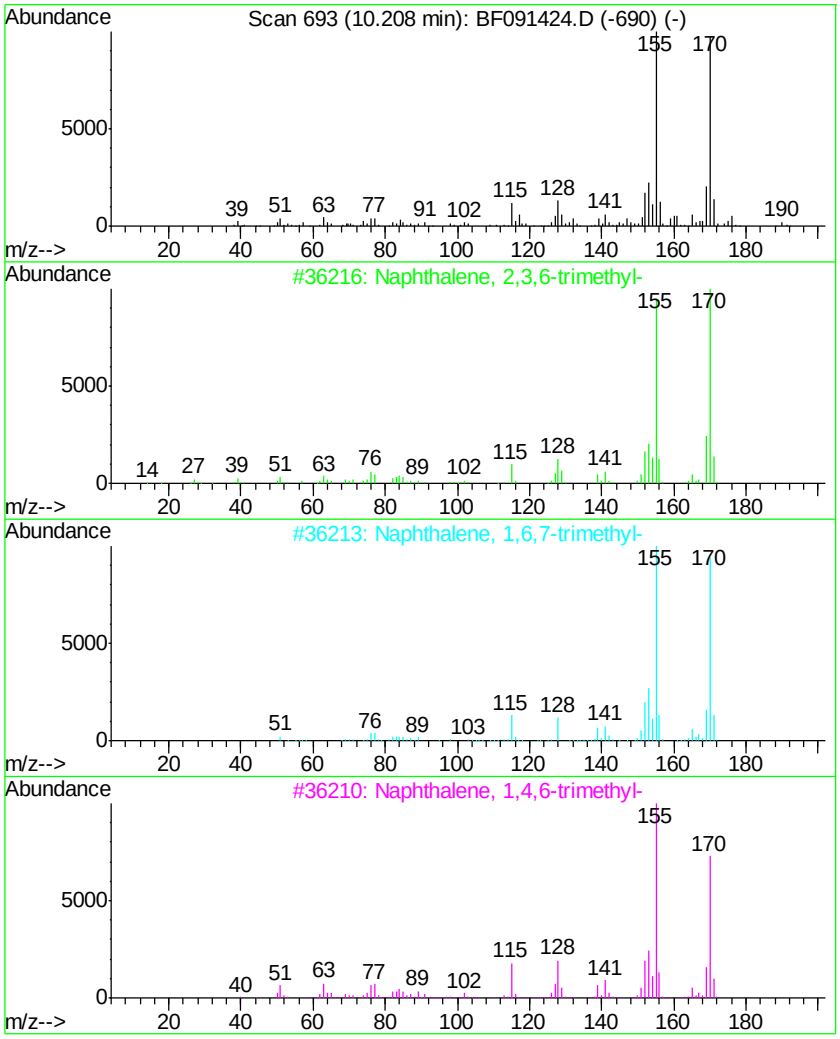
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

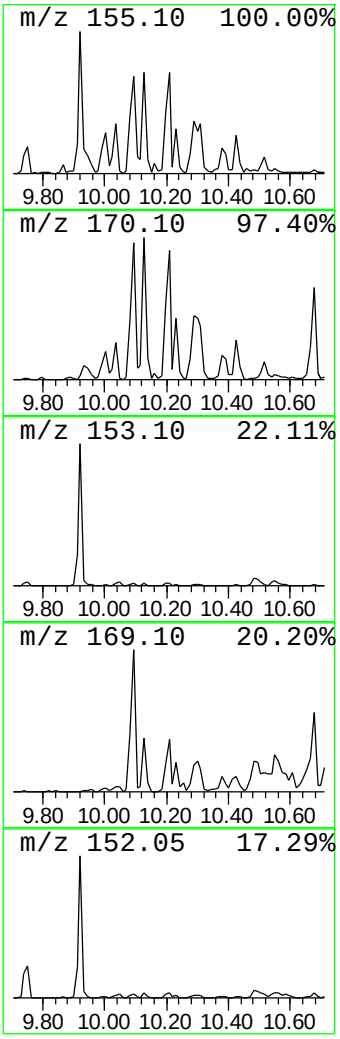
****

Peak Number 14 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	5.89 ng	418998	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	94
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

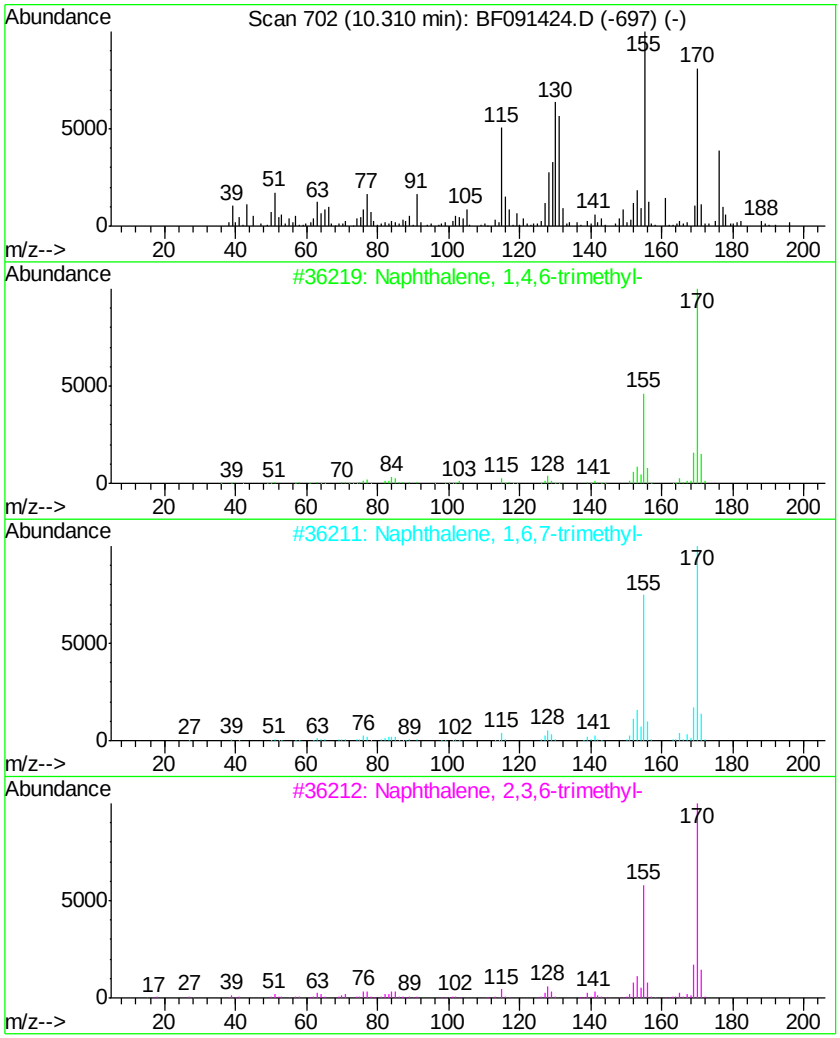
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

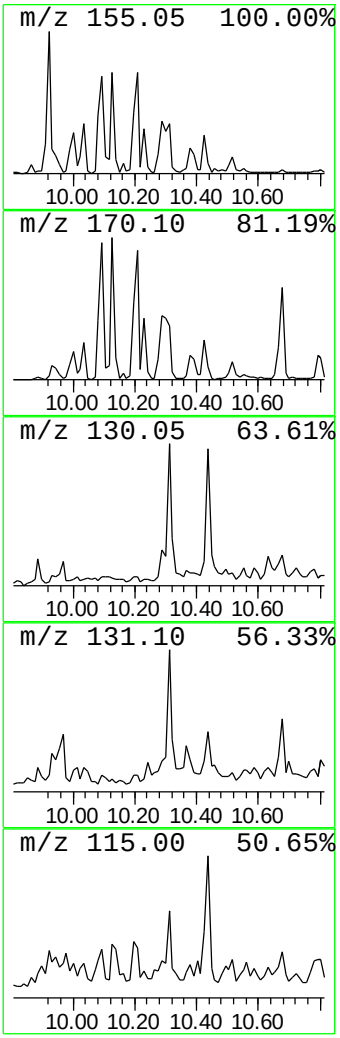
****

Peak Number 15 Naphthalene, 1,4,6-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	7.75 ng	551228	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	64
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	64
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	55
5	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	49





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

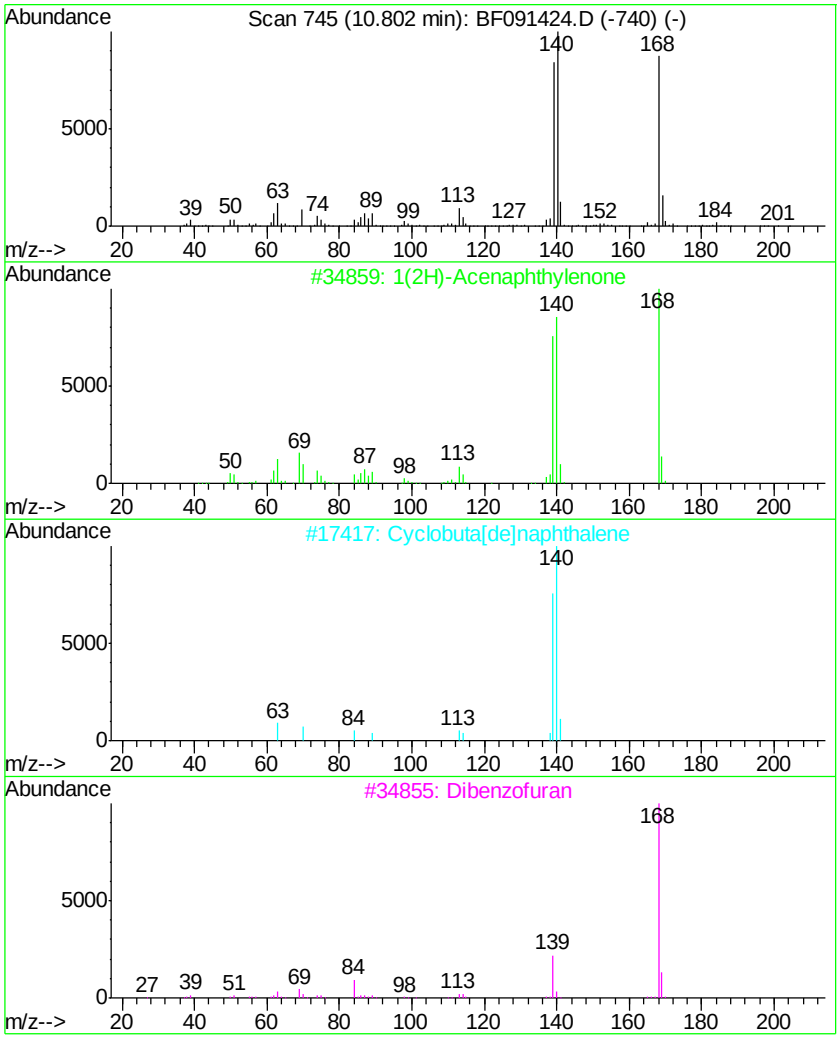
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

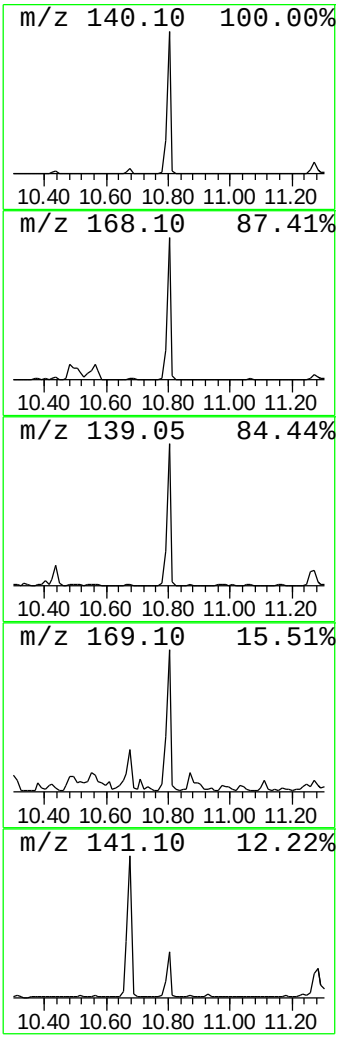
****

Peak Number 16 1(2H)-Acenaphthylenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	14.44 ng	1794150	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	95
2	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	64
3	Dibenzofuran	168	C12H8O	000132-64-9	50
4	Benzaldehyde, 2-fluoro-3-hydroxy-	140	C7H5FO2	103438-86-4	49
5	7(4H)-Benzothiazolone, 2-amino-5...	168	C7H8N2OS	017583-10-7	40





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

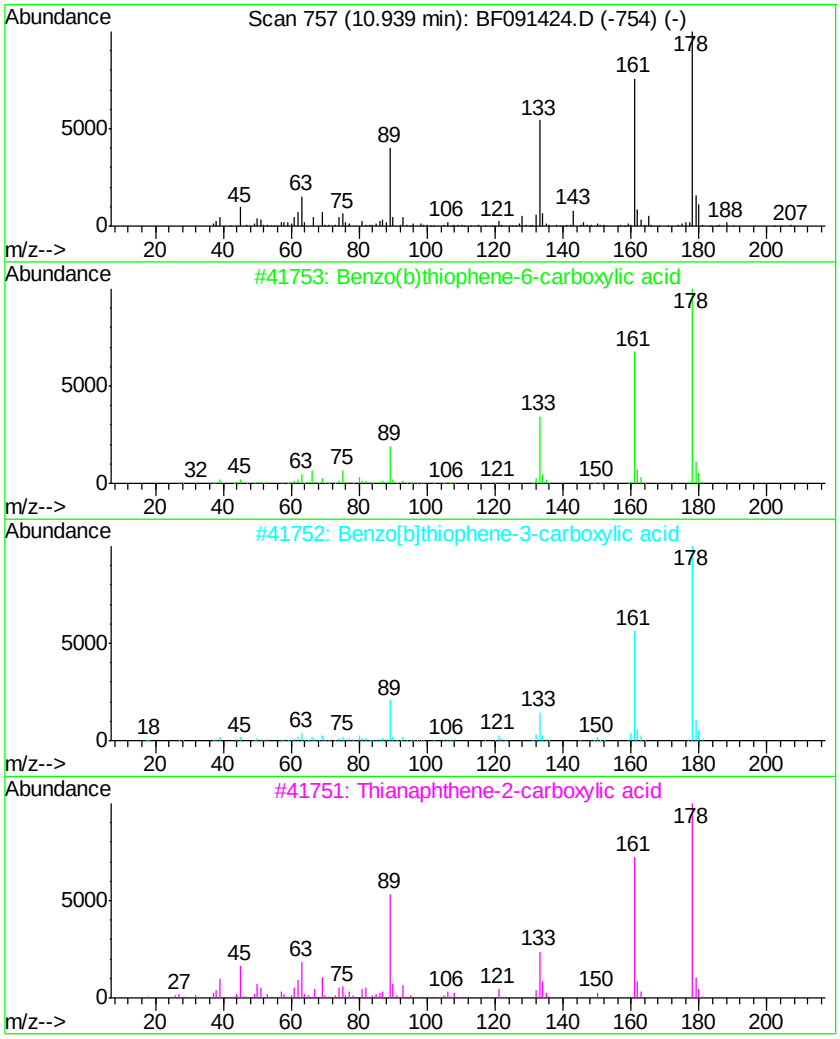
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

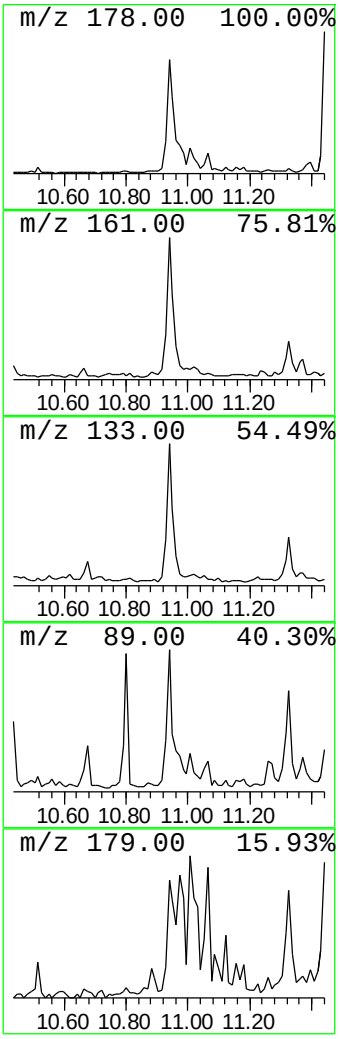
****

Peak Number 17 Benzo(b)thiophene-6-carboxy... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.94	6.33 ng	785804	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(b)thiophene-6-carboxylic acid	178	C9H6O2S	006179-26-6	86
2	Benzo[b]thiophene-3-carboxylic acid	178	C9H6O2S	005381-25-9	83
3	Thianaphthene-2-carboxylic acid	178	C9H6O2S	006314-28-9	58
4	Thianaphthene-2-carbonyl chloride	196	C9H5ClOS	039827-11-7	43
5	Benzo[b]furan-3-carboxamide	161	C9H7NO2	1000262-22-7	35





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

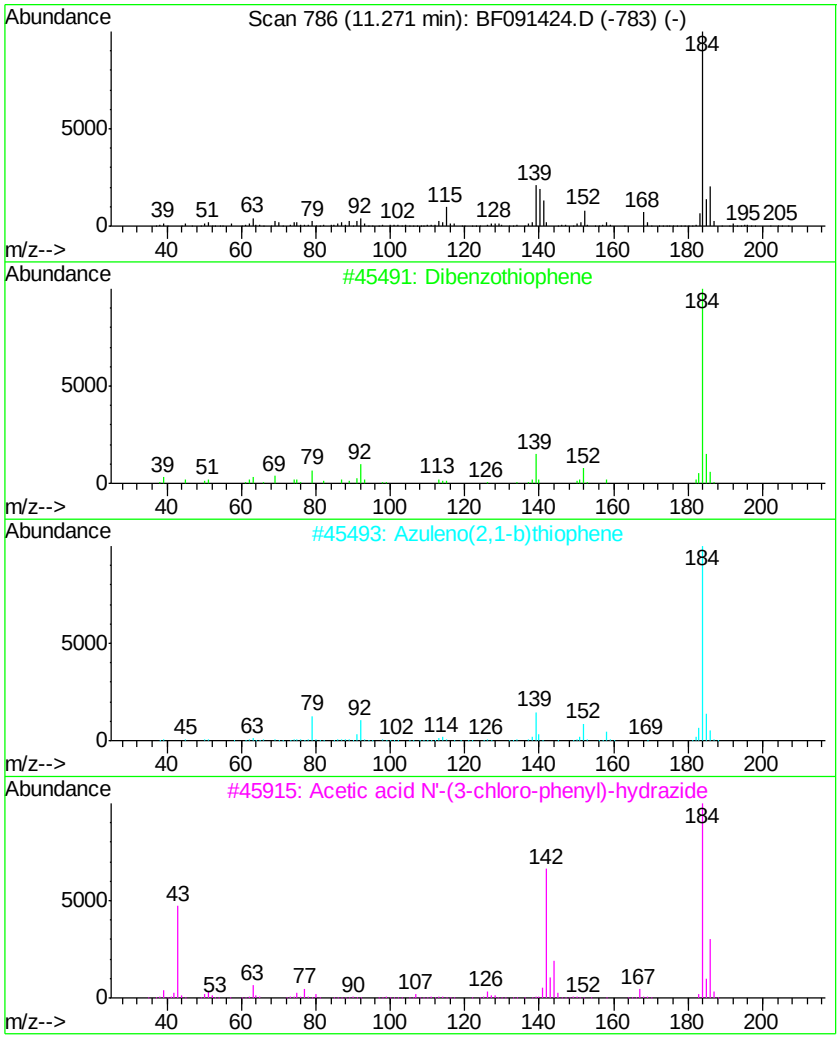
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

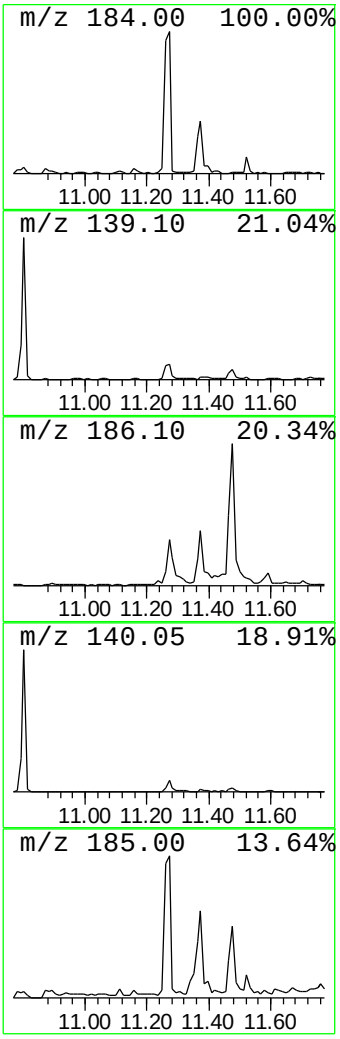
****

Peak Number 18 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	6.68 ng	829205	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	70
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	58
3	Acetic acid N'-(3-chloro-phenyl)...	184	C8H9ClN2O	1000294-84-1	53
4	3,4-Bis(methylthio)toluene	184	C9H12S2	029690-14-0	50
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

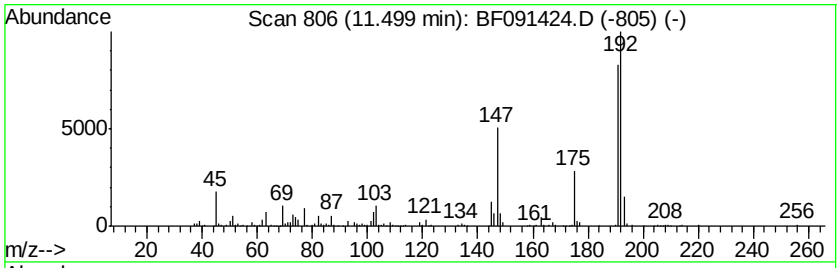
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

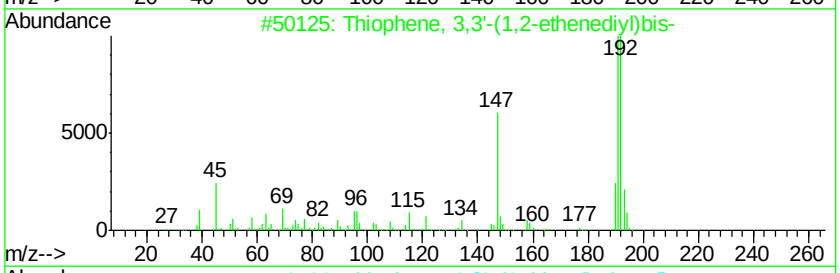
****

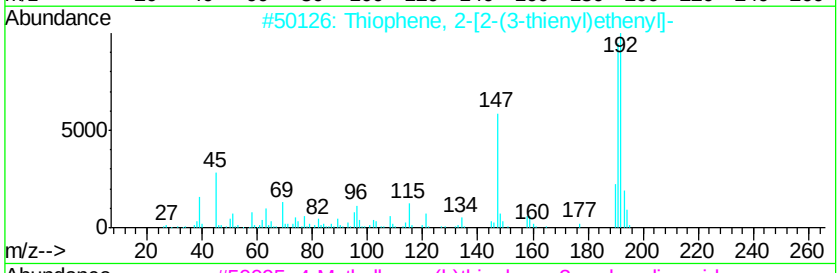
Peak Number 19 Thiophene, 3,3'-(1,2-ethene... Concentration Rank 13

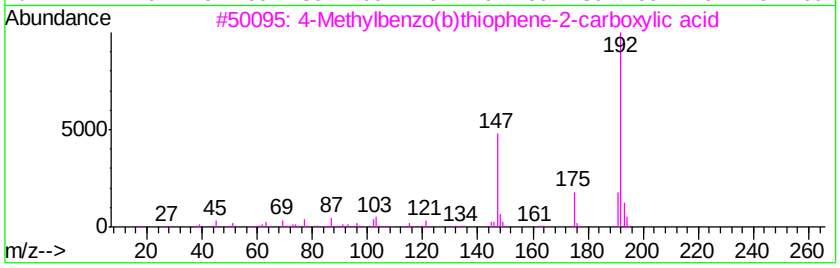
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.50	7.00 ng	869434	Phenanthrene-d10	11.37

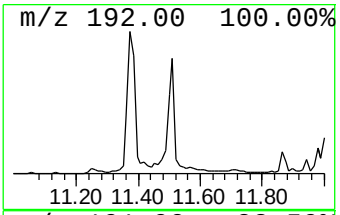
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 3,3'-(1,2-ethenediyl)...	192	C10H8S2	117439-53-9	72
2	Thiophene, 2-[2-(3-thienyl)ethen...	192	C10H8S2	116854-09-2	64
3	4-Methylbenzo(b)thiophene-2-carb...	192	C10H8O2S	001735-13-3	53
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	52
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	52

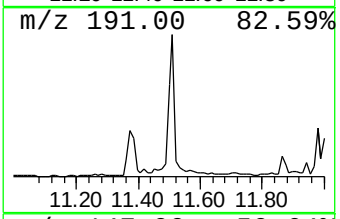


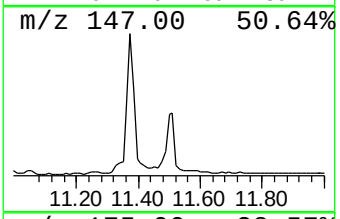


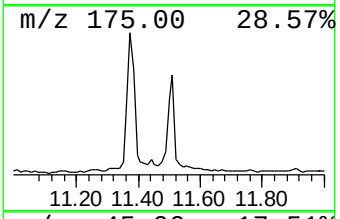


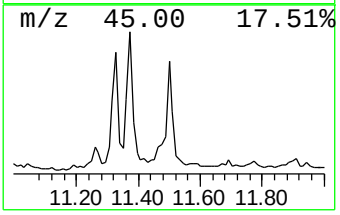












Data Path : Z:\HPCHEM1\BNA F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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

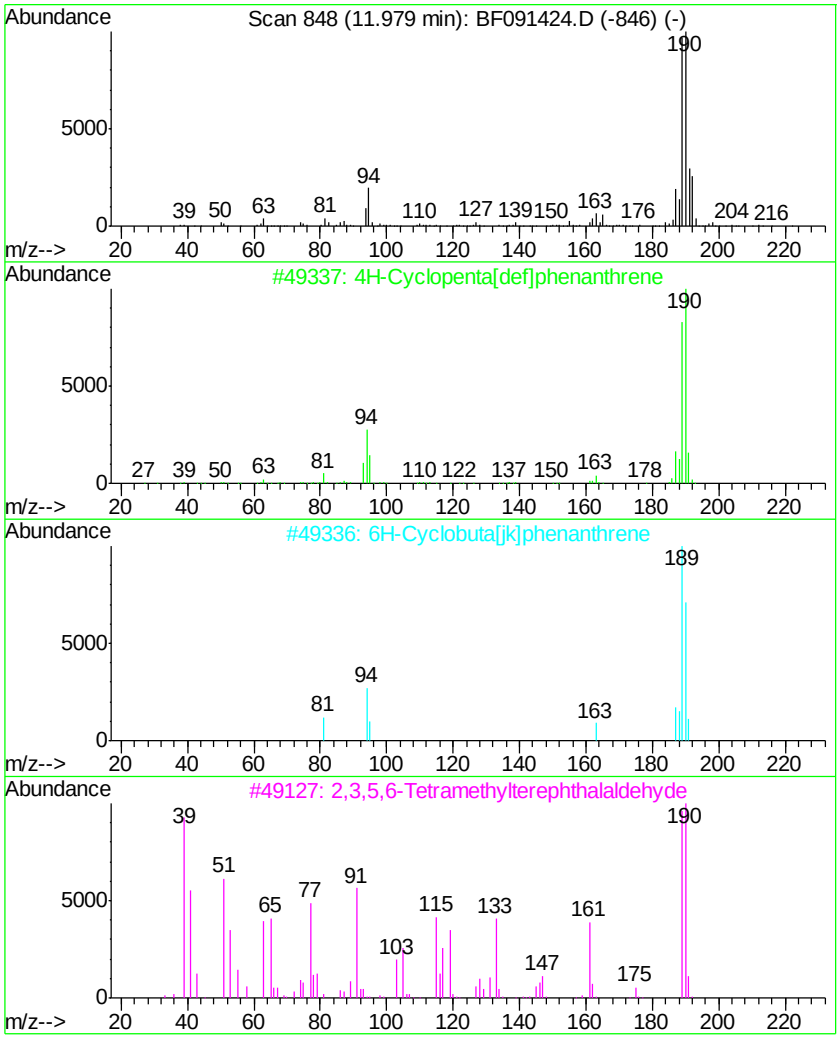
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

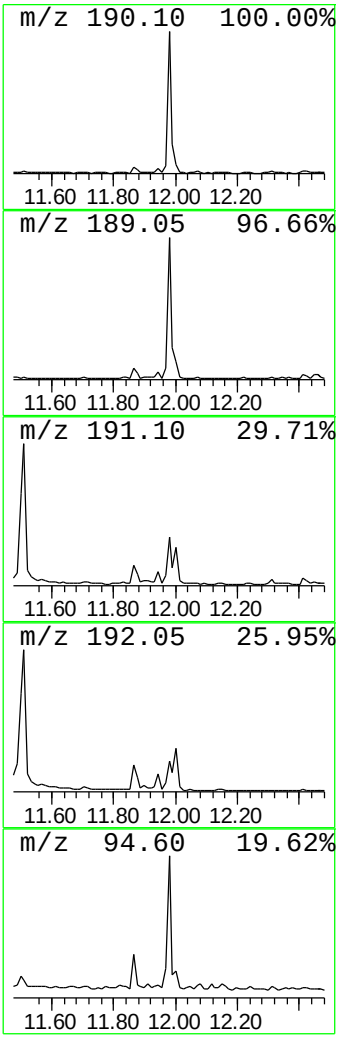
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.02 ng	499288	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
5	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	28





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120516\
Data File : BF091424.D
Acq On : 5 Dec 2016 18:09
Operator : UM/SJ
Sample : H5838-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MW-9

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	14.1	ng	668924	1	6.85	947571	20.0
unknown6.62	6.62	86.1	ng	4078590	1	6.85	947571	20.0
1H-Indene, 1-methyl-	7.91	7.5	ng	565974	2	8.13	1513780	20.0
Benzo[b]thiophene	8.21	7.3	ng	555000	2	8.13	1513780	20.0
1H-Inden-1-one, 2...	8.72	12.8	ng	965170	2	8.13	1513780	20.0
3-Methylbenzothio...	8.80	7.8	ng	593036	2	8.13	1513780	20.0
Naphthalene, 1-me...	8.94	22.3	ng	1684070	2	8.13	1513780	20.0
Benzene, 1-etheny...	9.13	4.4	ng	315675	3	9.89	1422000	20.0
1,2,4-Metheno-3H-...	9.37	5.8	ng	410321	3	9.89	1422000	20.0
Naphthalene, 1-et...	9.42	6.4	ng	454801	3	9.89	1422000	20.0
Benzo[b]thiophene...	9.48	9.0	ng	638542	3	9.89	1422000	20.0
Naphthalene, 2,3-...	9.66	15.8	ng	1121970	3	9.89	1422000	20.0
Naphthalene, 2,3,...	10.21	5.9	ng	418998	3	9.89	1422000	20.0
Naphthalene, 1,4,...	10.31	7.8	ng	551228	3	9.89	1422000	20.0
1(2H)-Acenaphthyl...	10.80	14.4	ng	1794150	4	11.37	2484180	20.0
Benzo(b)thiophene...	10.94	6.3	ng	785804	4	11.37	2484180	20.0
Dibenzothiophene	11.27	6.7	ng	829205	4	11.37	2484180	20.0
Thiophene, 3,3'-(...	11.50	7.0	ng	869434	4	11.37	2484180	20.0
4H-Cyclopenta[def...	11.98	4.0	ng	499288	4	11.37	2484180	20.0