LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

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-BF101316.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	3.857	128	133	136	rBV2	23566	45999	1.23%	0.086%
2	4.497	186	189	196	rVB	40611	77249	2.06%	0.144%
3	5.080	238	240	243	rBV	709629	866648	23.15%	1.619%
4	5.205	243	251	252	rVV2	94768	380341	10.16%	0.711%
5	5.274	255	257	260	rVB	141116	221319	5.91%	0.413%
6	5.468	271	274	275	rBV	54774	86614	2.31%	0.162%
7	5.503	275	277	280	rVV	3020270	3173042	84.76%	5.928%
8	5.731	295	297	298	rBV2	34557	47727	1.27%	0.089%
9	5.800	301	303	310	rVB3	43935	97665	2.61%	0.182%
10	5.903	310	312	314	rBV2	39980	52668	1.41%	0.098%
11	6.051	323	325	327	rVB2	28503	41332	1.10%	0.077%
12	6.143	330	333	336	rBV2	50524	76269	2.04%	0.142%
13	6.223	336	340	344	rVB4	28272	73859	1.97%	0.138%
14	6.337	347	350	351	rBV	47918	69929	1.87%	0.131%
15	6.440	356	359	362	rBV2	181587	310004	8.28%	0.579%
16	6.497	362	364	365	rBV2	36172	43257	1.16%	0.081%
17	6.543	365	368	370	rBV	2469742	3550360	94.83%	6.633%
18	6.668	377	379	381	rBV	4025846	3619413	96.68%	6.762%
19	6.737	382	385	387	rVV2	86640	139823	3.73%	0.261%
20	6.771	387	388	392	rVB4	33349	56211	1.50%	0.105%
21	6.897	397	399	403	rBV	1482143	1409492	37.65%	2.633%
22	6.954	403	404	407	rVB2	45042	56904	1.52%	0.106%
23	7.057	410	413	415	rBV	3258804	2969454	79.32%	5.547%
24	7.171	420	423	425	rVB2	48306	96651	2.58%	0.181%
25	7.217	425	427	428	rBV	54517	59343	1.59%	0.111%
26	7.297	432	434	436	rBV2	60686	88153	2.35%	0.165%
27	7.457	446	448	451	rBV	1432021	2050190	54.76%	3.830%
28	7.503	451	452	454	rVB	141025	106232	2.84%	0.198%
29	7.549	454	456	460	rVB3	60840	126335	3.37%	0.236%
30	7.663	464	466	469	rBV2	22233	46388	1.24%	0.087%
31	7.709	469	470	475	rVB2	55988	71234	1.90%	0.133%
32	7.846	475	482	485	rBV6	29684	132127	3.53%	0.247%
33	7.926	485	489	492	rBV4	60280	126348	3.37%	0.236%
34	8.006	492	496	499	rVB4	39377	87827	2.35%	0.164%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

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-BF101316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.120	505	506	509	rBV3	29656	59260	1.58%	0.111%
36	8.189	509	512	514	rBV	2123695	2164277	57.81%	4.043%
37	8.486	534	538	540	rVB5	27051	52833	1.41%	0.099%
38	8.532	540	542	544	rBV2	64014	87391	2.33%	0.163%
39	8.612	547	549	551	rBV	121739	127521	3.41%	0.238%
40	8.783	562	564	565	rBV	139445	112754	3.01%	0.211%
41	8.840	567	569	571	rVB	67473	82991	2.22%	0.155%
42	8.897	571	574	578	rBV2	221097	336823	9.00%	0.629%
43	8.954	578	579	581	rVV2	58255	75554	2.02%	0.141%
44	9.000	581	583	584	rVB	126550	102377	2.73%	0.191%
45	9.103	590	592	594	rBV2	48500	60589	1.62%	0.113%
46	9.149	594	596	597	rVB	35425	46165	1.23%	0.086%
47	9.217	597	602	604	rBV3	41741	97003	2.59%	0.181%
48	9.263	604	606	609	rBV	4186553	3743749	100.00%	6.994%
49	9.343	612	613	617	rVB2	111397	162564	4.34%	0.304%
50	9.412	617	619	622	rVB2	61723	83773	2.24%	0.156%
51	9.469	622	624	627	rBV3	37287	50272	1.34%	0.094%
52	9.526	627	629	631	rBV	84803	112383	3.00%	0.210%
53	9.606	634	636	639	rBV2	144352	268242	7.17%	0.501%
54	9.663	639	641	643	rVV	1506712	1369722	36.59%	2.559%
55	9.720	645	646	648	rBV2	61472	62213	1.66%	0.116%
56	9.800	651	653	655	rBV	136213	167055	4.46%	0.312%
57	9.880	655	660	662	rVB2	143463	209125	5.59%	0.391%
58	9.949	663	666	668	rBV	1760287	1998306	53.38%	3.733%
59	10.052	673	675	677	rVV3	45609	70149	1.87%	0.131%
60	10.143	681	683	686	rVV	139892	251828	6.73%	0.470%
61	10.189	686	687	689	rVV2	75606	96728	2.58%	0.181%
62	10.257	692	693	695	rVV	45083	82656	2.21%	0.154%
63	10.292	695	696	697	rVV	61427	43385	1.16%	0.081%
64	10.372	700	703	705	rVV2	131357	231951	6.20%	0.433%
65	10.452	705	710	712	rVB4	40177	84409	2.25%	0.158%
66	10.600	720	723	725	rBV2	68332	98648	2.64%	0.184%
67	10.646	725	727	729	rBV	53905	56489	1.51%	0.106%
68	10.737	732	735	737	rBV	1535509	1651245	44.11%	3.085%
69	10.852	743	745	749	rBV	198637	294057	7.85%	0.549%
70	10.932	751	752	755	rBV3	35424	52562	1.40%	0.098%
71	11.103	763	767	768	rBV3	50723	104596	2.79%	0.195%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

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-BF101316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.240	777	779	781	rBV	77212	89034	2.38%	0.166%
73	11.298	782	784	786	rVV2	132575	131778	3.52%	0.246%
74	11.332	786	787	789	rVB2	59842	43690	1.17%	0.082%
75	11.389	790	792	794	rBV2	65381	82511	2.20%	0.154%
76	11.435	794	796	797	rBV	1366502	1366527	36.50%	2.553%
77	11.503	800	802	804	rVB	159260	200343	5.35%	0.374%
78	11.663	813	816	819	rBV	140886	267244	7.14%	0.499%
79	11.766	824	825	827	rVB2	74529	76136	2.03%	0.142%
80	11.938	838	840	841	rBV	220723	250417	6.69%	0.468%
81	11.972	841	843	847	rVV3	373820	601450	16.07%	1.124%
82	12.040	847	849	854	rVB2	127156	280417	7.49%	0.524%
83	12.486	886	888	890	rBV	189391	222031	5.93%	0.415%
84	12.646	900	902	904	rVB	927980	829096	22.15%	1.549%
85	12.875	920	922	926	rBV	755778	864313	23.09%	1.615%
86	13.023	933	935	938	rBV	2817626	2796942	74.71%	5.225%
87	13.721	994	996	998	rBV	357205	369361	9.87%	0.690%
88	13.926	1012	1014	1017	rVB2	725977	721680	19.28%	1.348%
89	14.086	1025	1028	1033	rVB2	1862154	3255209	86.95%	6.081%
90	15.126	1117	1119	1123	rBV	653104	1330434	35.54%	2.485%
91	15.195	1123	1125	1127	rVV	483214	644143	17.21%	1.203%
92	15.435	1144	1146	1149	rVB	402270	534750	14.28%	0.999%
93	15.561	1154	1157	1167	rVB	914551	1978407	52.85%	3.696%
94	16.018	1194	1197	1199	rVB	845490	1385502	37.01%	2.588%

Sum of corrected areas: 53529467

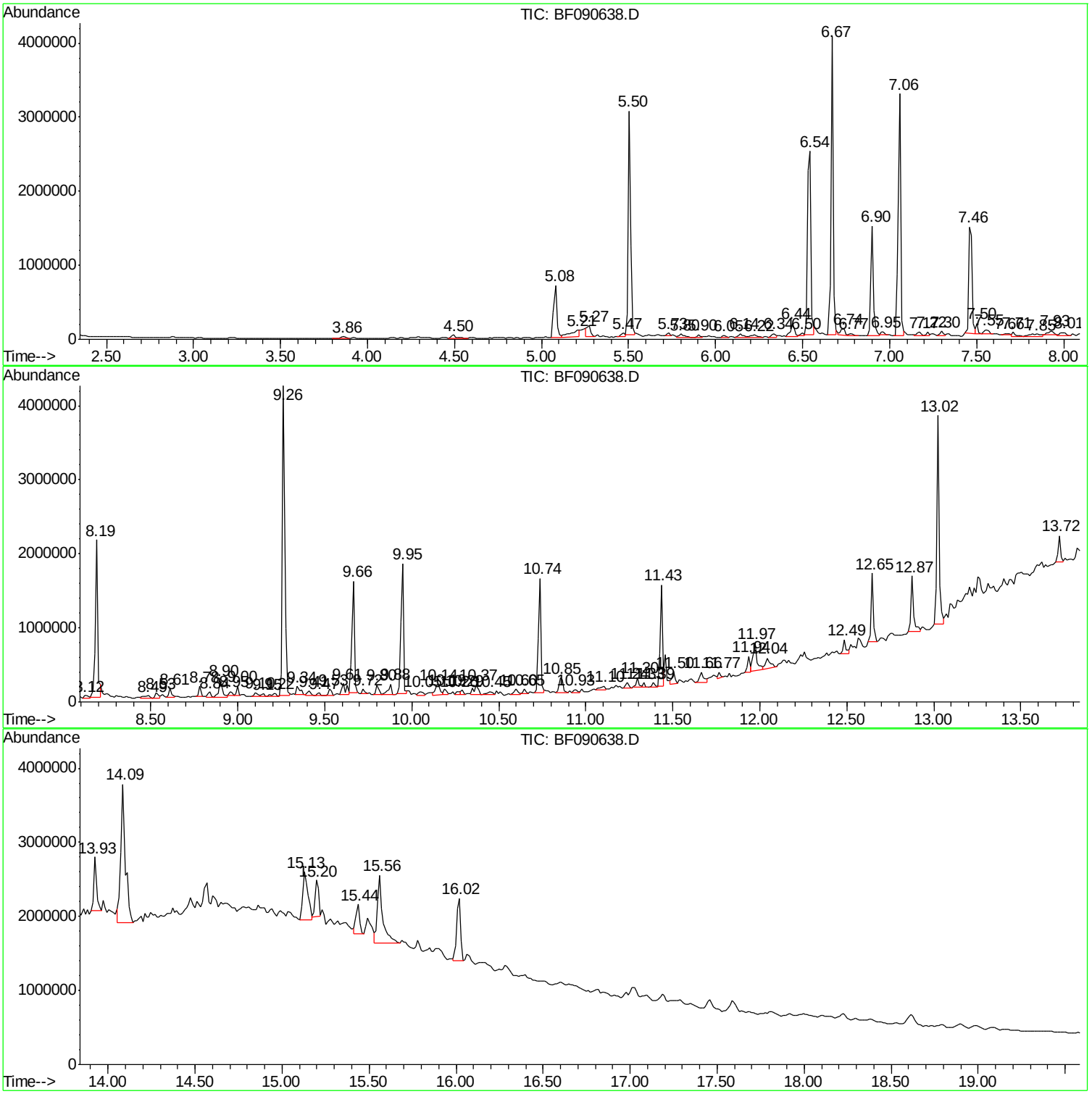
LSC Report - Integrated Chromatogram

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

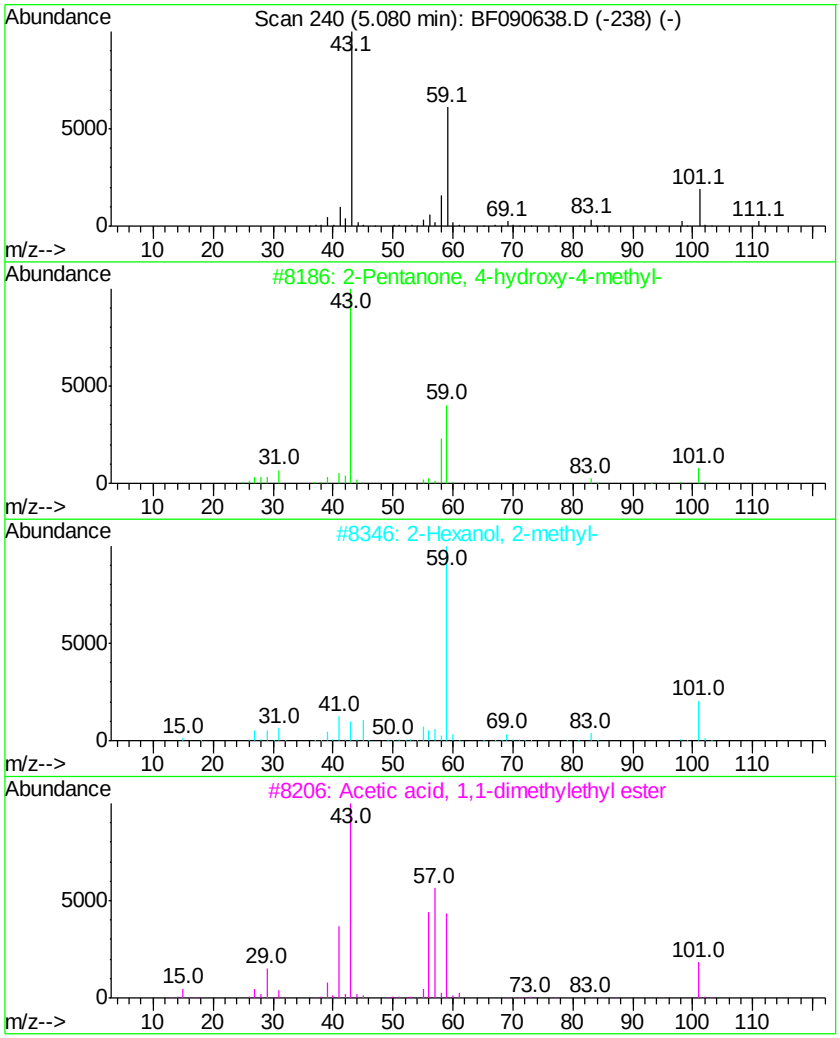
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

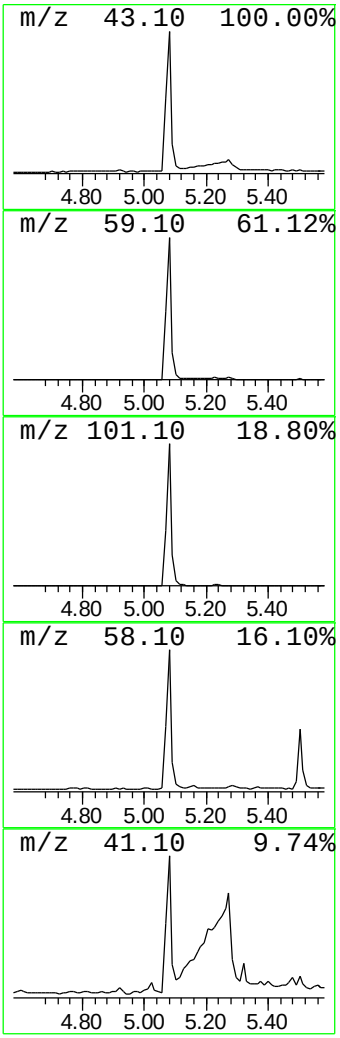
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	12.30 ng	866648	1,4-Dichlorobenzene-d4	6.90

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	38
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	36
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	25





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

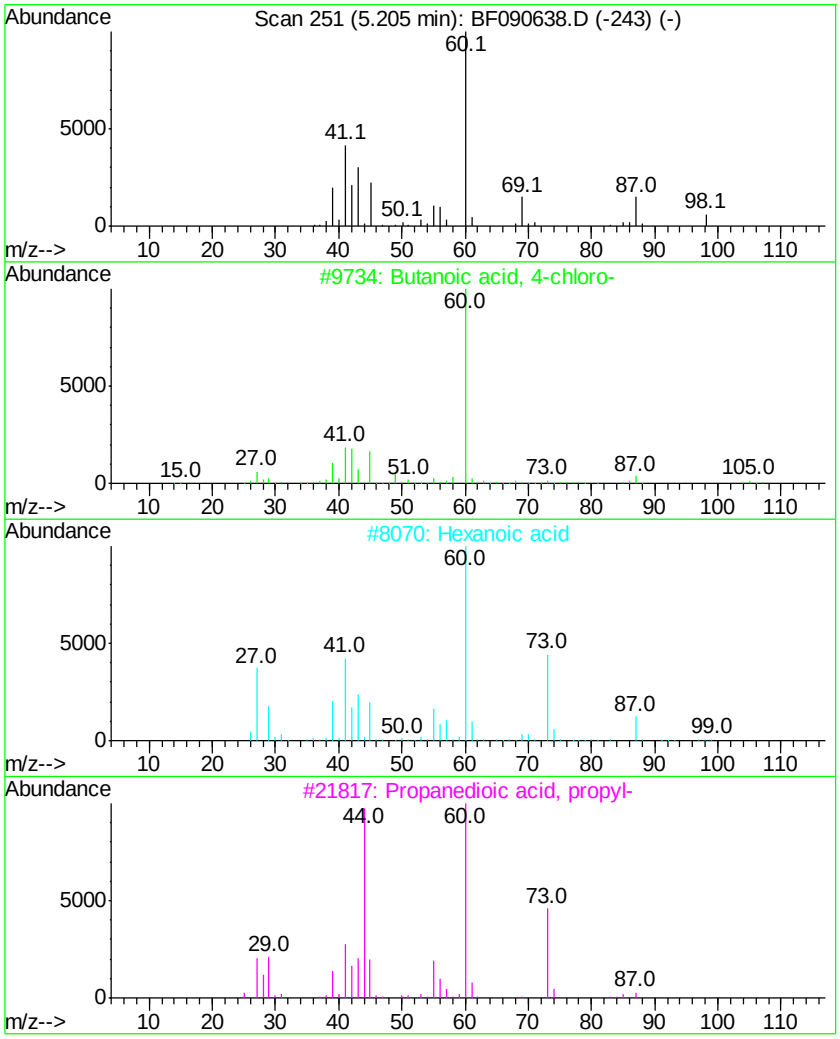
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

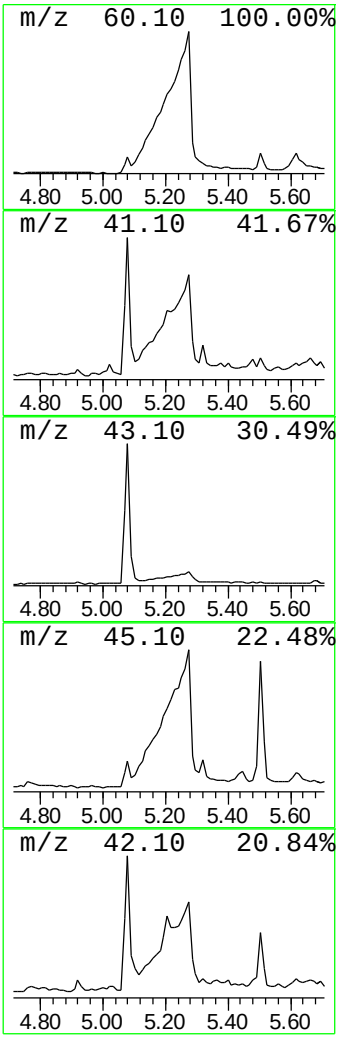
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Butanoic acid, 4-chloro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.21	5.40 ng	380341	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 4-chloro-	122	C4H7ClO2	000627-00-9	50
2	Hexanoic acid	116	C6H12O2	000142-62-1	40
3	Propanedioic acid, propyl-	146	C6H10O4	000616-62-6	39
4	Formic acid hydrazide	60	CH4N2O	000624-84-0	38
5	Butanoic acid, 3-methyl-	102	C5H10O2	000503-74-2	38





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

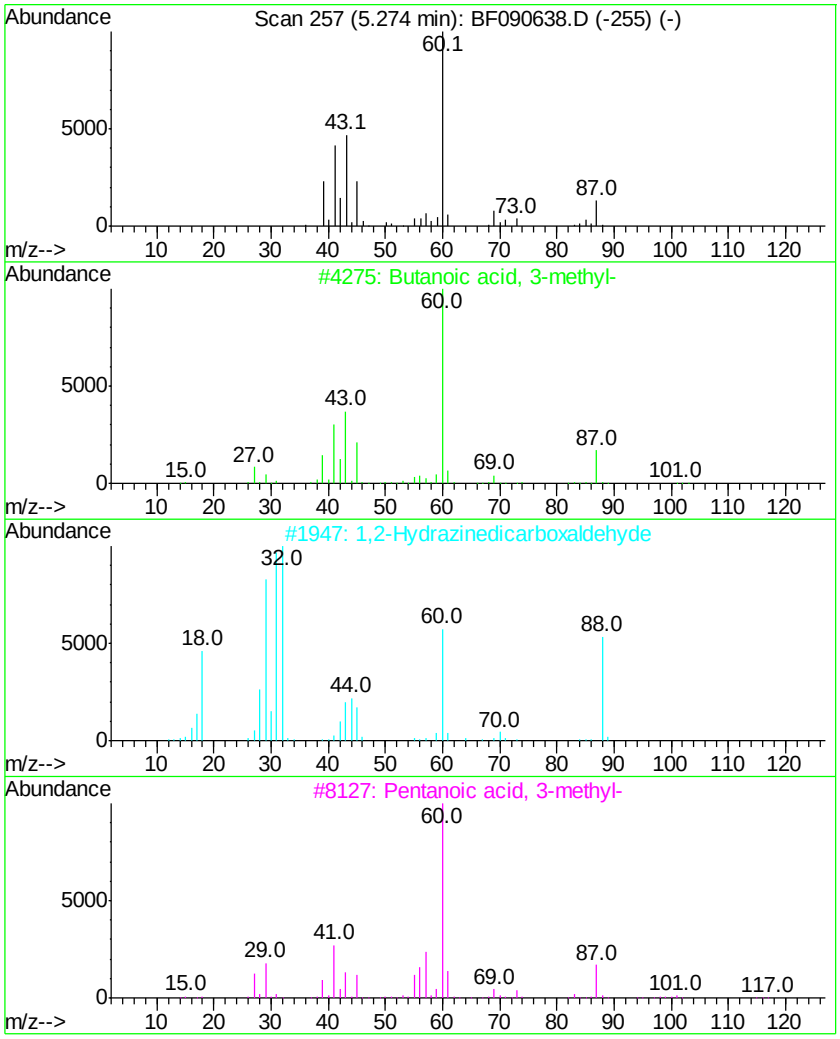
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

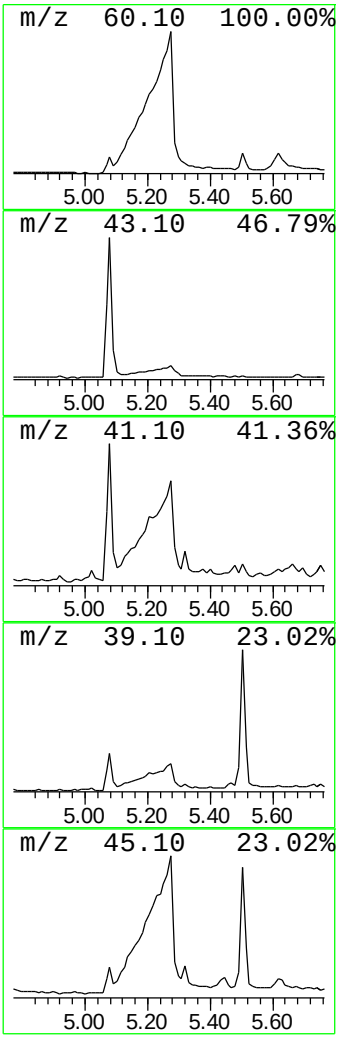
****

Peak Number 3 Butanoic acid, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.27	3.14 ng	221319	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 3-methyl-	102	C5H10O2	000503-74-2	78
2	1,2-Hydrazinedicarboxaldehyde	88	C2H4N2O2	000628-36-4	56
3	Pentanoic acid, 3-methyl-	116	C6H12O2	000105-43-1	45
4	Hexanoic acid	116	C6H12O2	000142-62-1	40
5	Propanedioic acid, propyl-	146	C6H10O4	000616-62-6	40





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

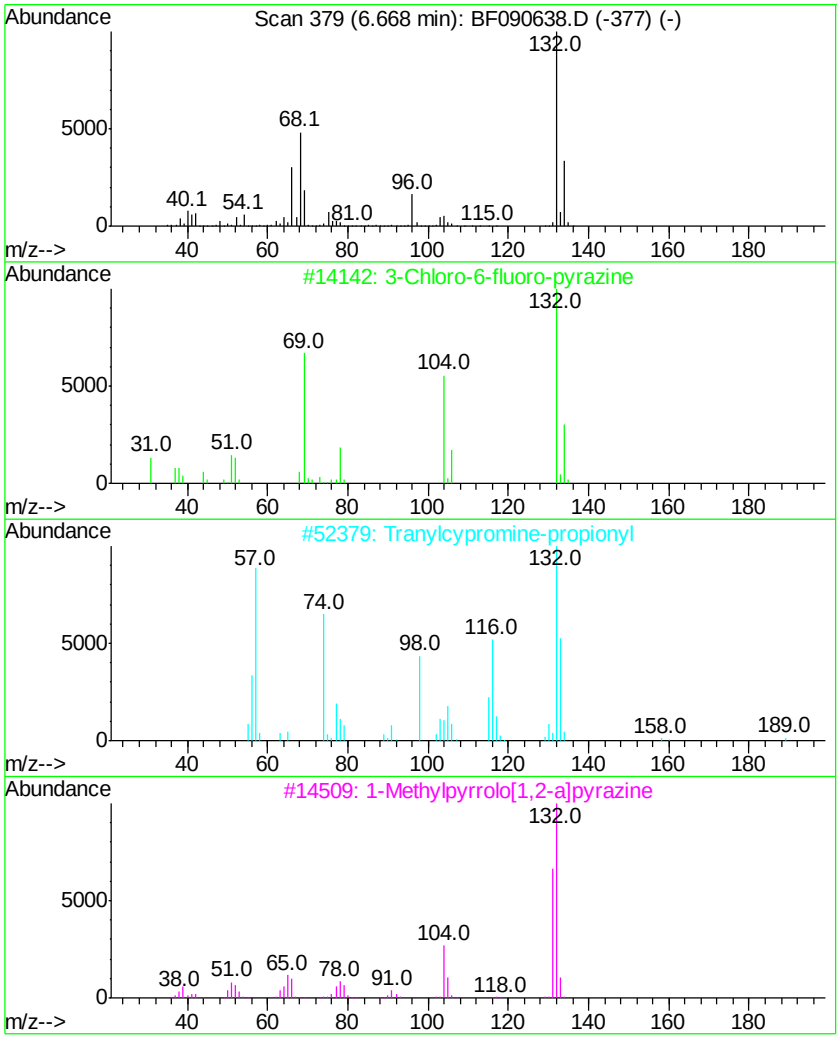
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

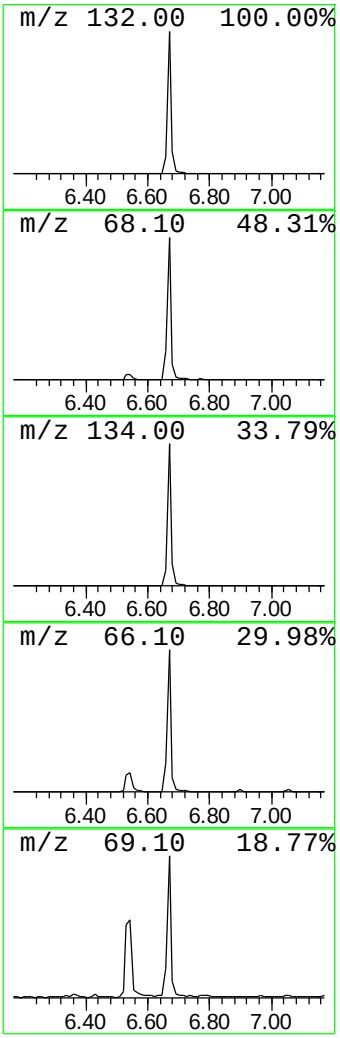
****

Peak Number 4 unknown6.67 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.67	51.36 ng	3619410	1,4-Dichlorobenzene-d4	6.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

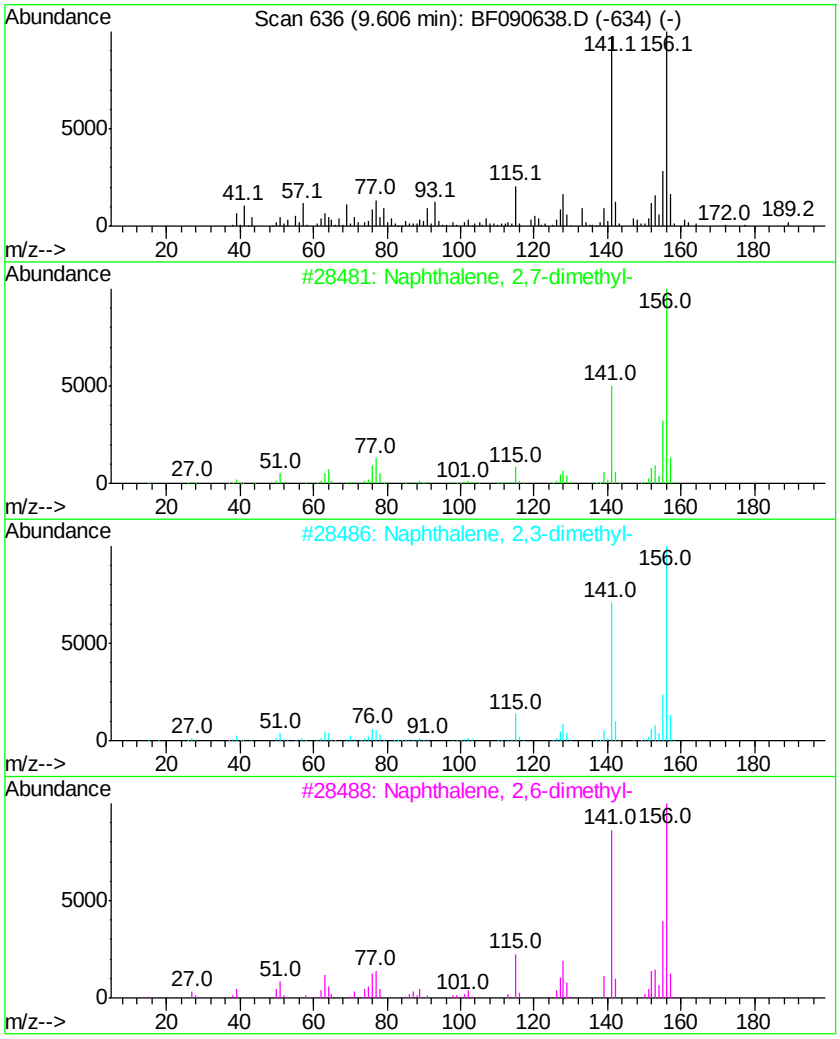
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

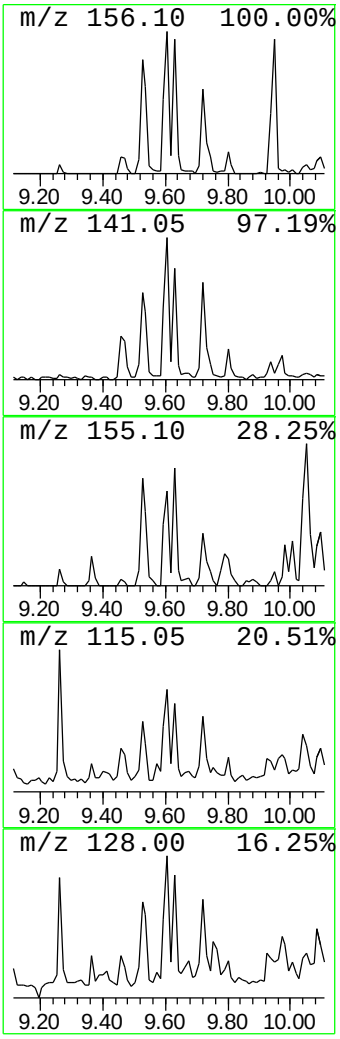
****

Peak Number 6 Naphthalene, 2,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.61	2.68 ng	268242	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

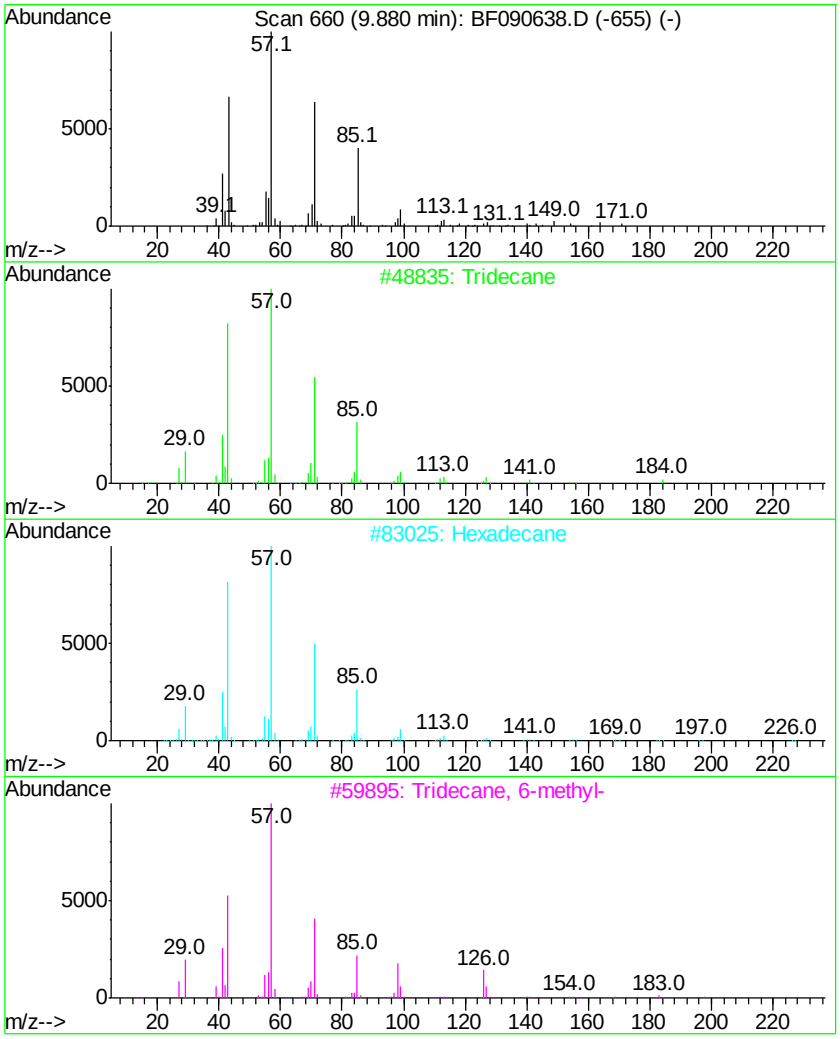
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

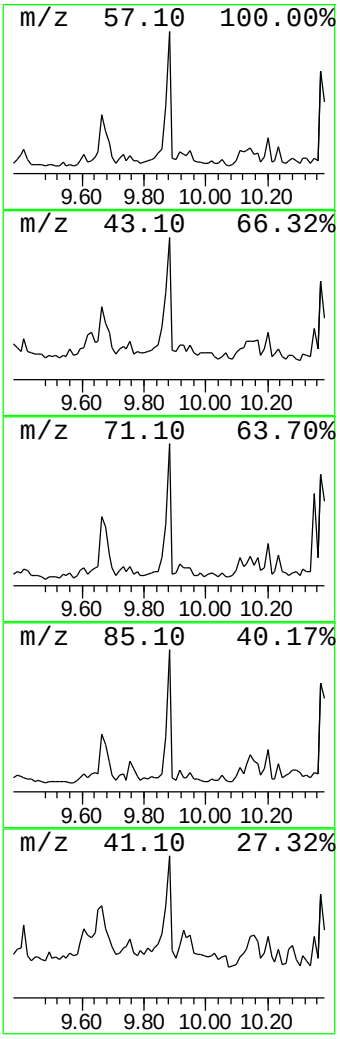
****

Peak Number 7 Tridecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.88	2.09 ng	209125	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	83
2	Hexadecane	226	C16H34	000544-76-3	80
3	Tridecane, 6-methyl-	198	C14H30	013287-21-3	78
4	Undecane, 6-ethyl-	184	C13H28	017312-60-6	53
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	47





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

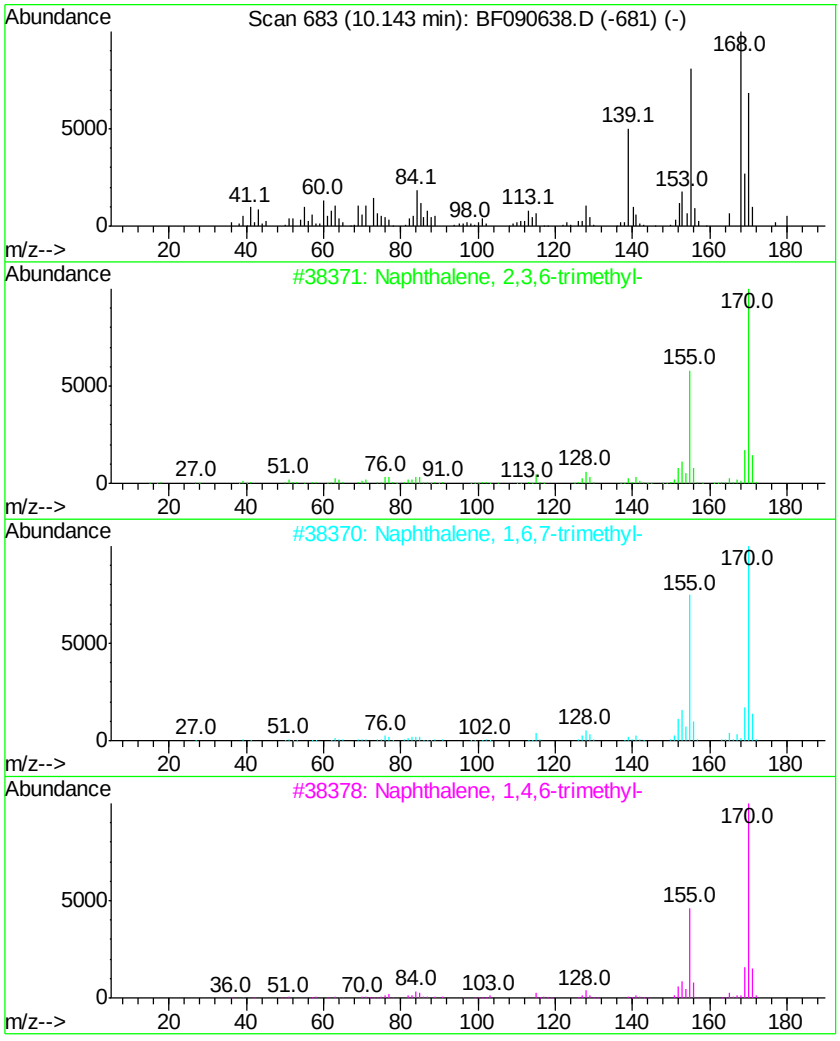
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

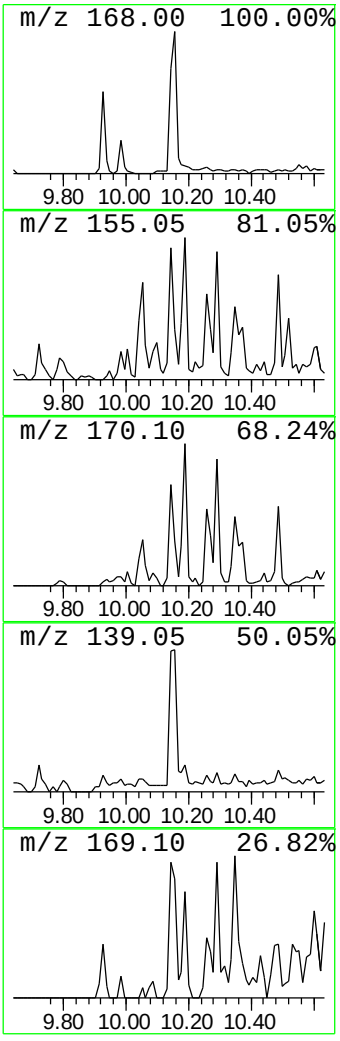
****

Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.14	2.52 ng	251828	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	90
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	87
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	50
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	46
5	2-Naphthyl methyl ketone	170	C12H10O	000093-08-3	38





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

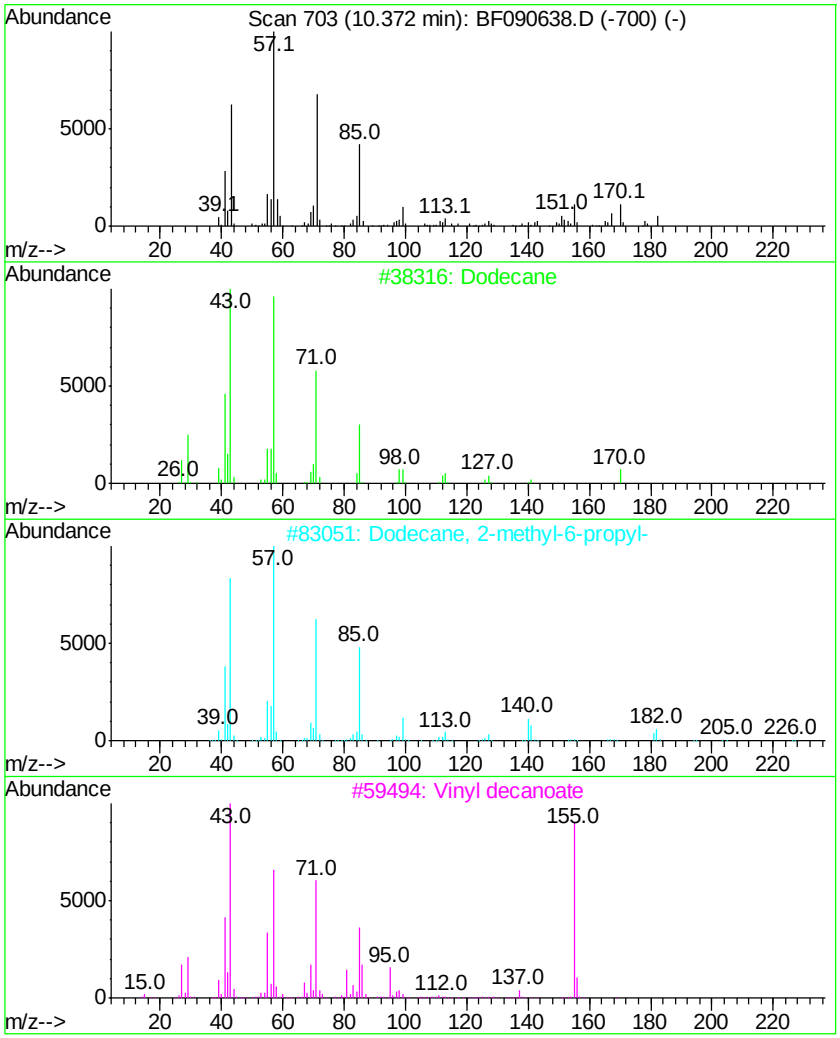
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

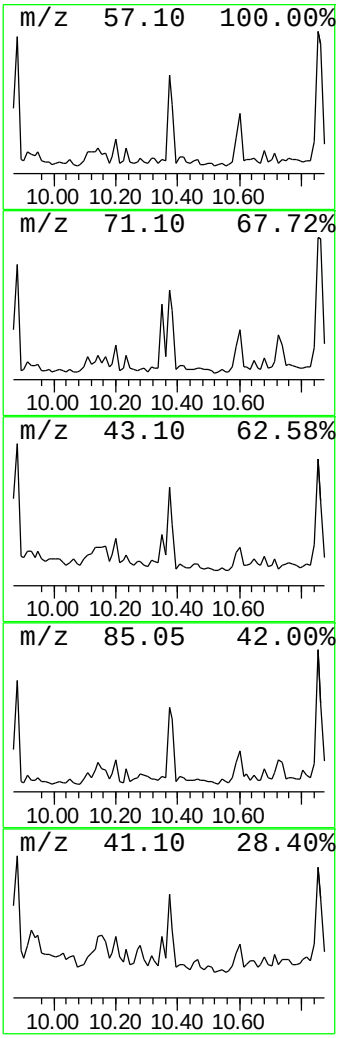
****

Peak Number 9 Dodecane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.37	2.32 ng	231951	Acenaphthene-d10	9.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	72
2	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	64
3	Vinyl decanoate	198	C12H22O2	004704-31-8	50
4	Hexadecane	226	C16H34	000544-76-3	49
5	Nonane, 5-(2-methylpropyl)-	184	C13H28	062185-53-9	47





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

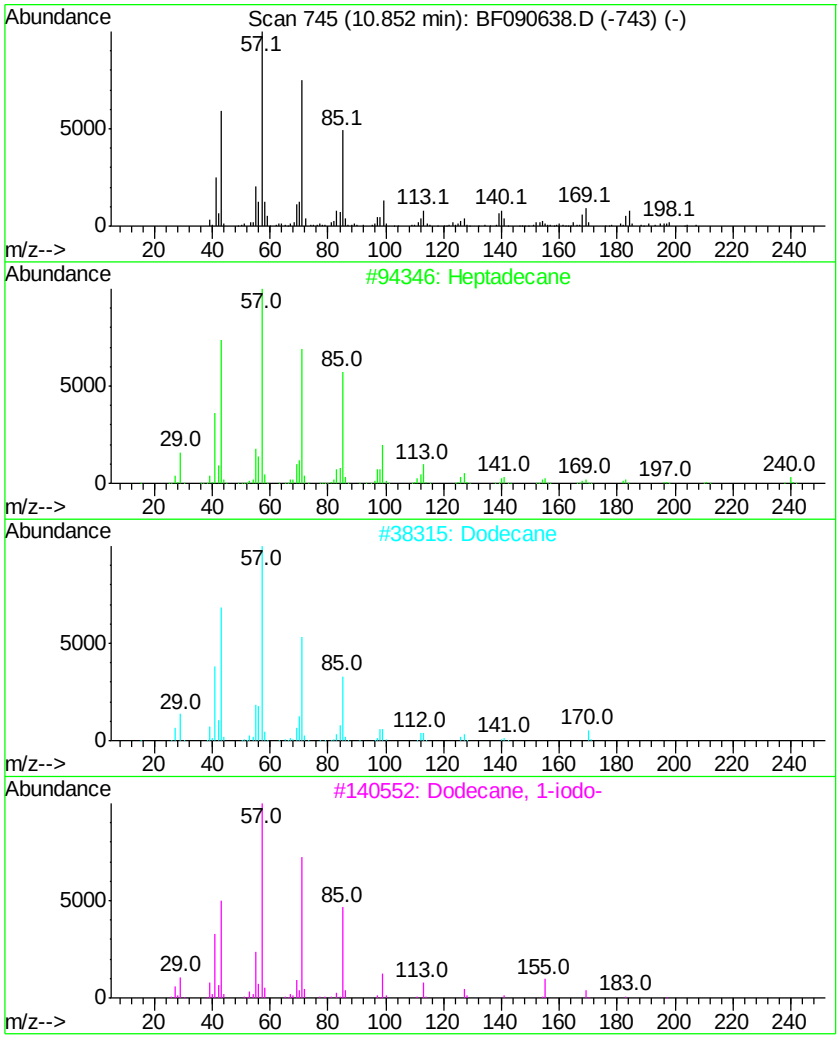
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

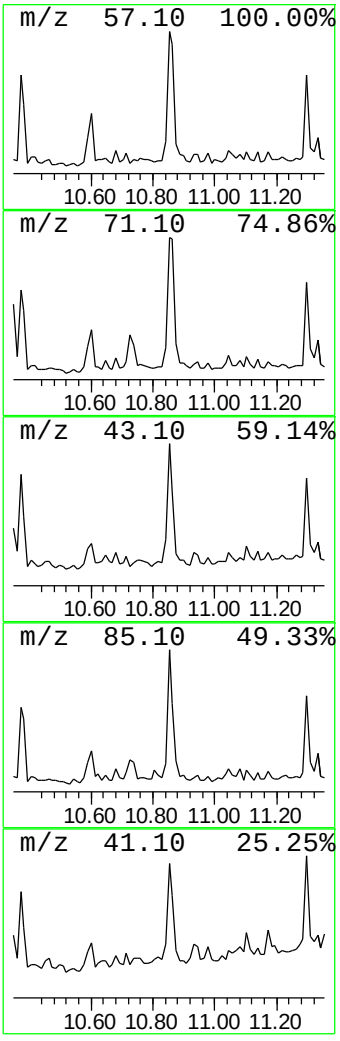
****

Peak Number 10 Heptadecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	4.30 ng	294057	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	83
2	Dodecane	170	C12H26	000112-40-3	83
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	83
4	Eicosane	282	C20H42	000112-95-8	80
5	Hexadecane	226	C16H34	000544-76-3	80





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

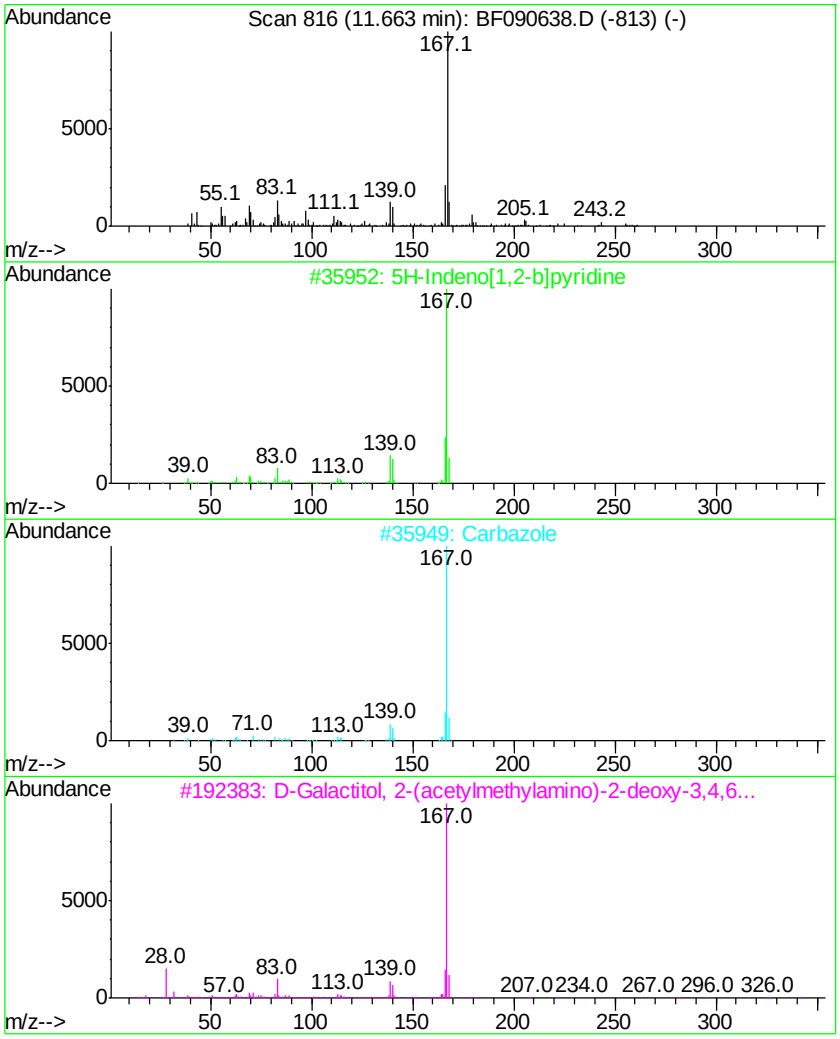
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

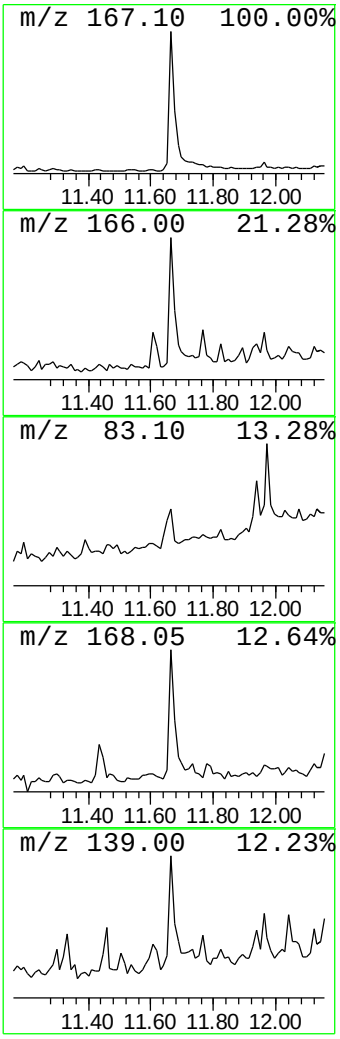
****

Peak Number 11 5H-Indeno[1,2-b]pyridine Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	3.91 ng	267244	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	95
2	Carbazole	167	C12H9N	000086-74-8	90
3	D-Galactitol, 2-(acetylmethylami...	363	C16H29NO8	074410-42-7	87
4	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	86
5	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	78





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

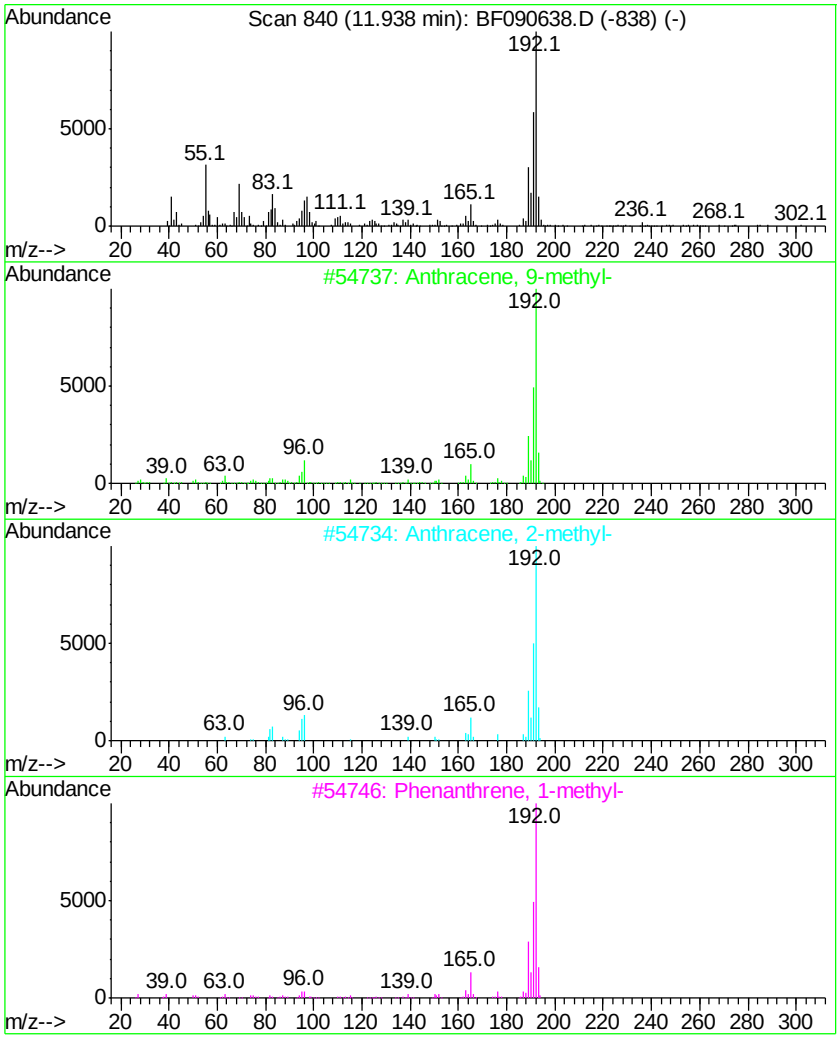
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

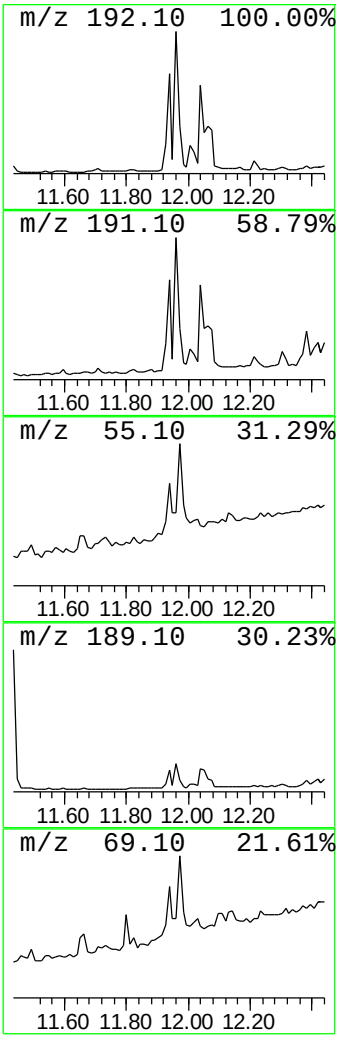
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	3.67 ng	250417	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

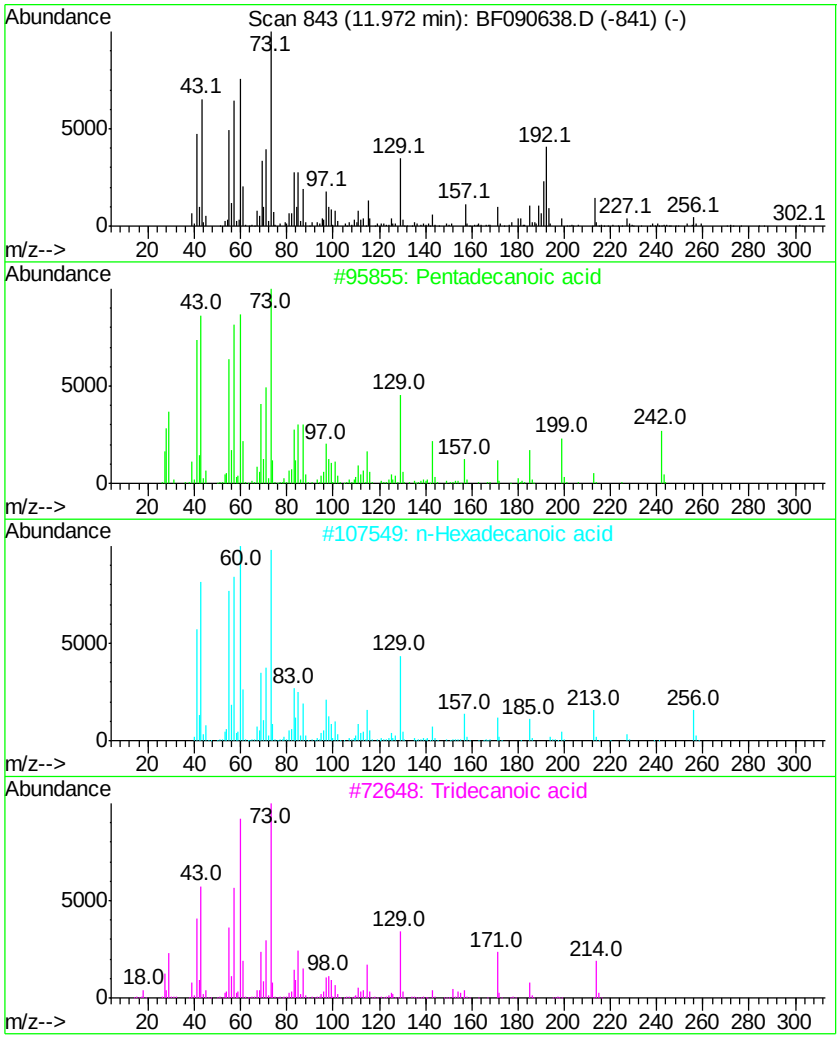
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

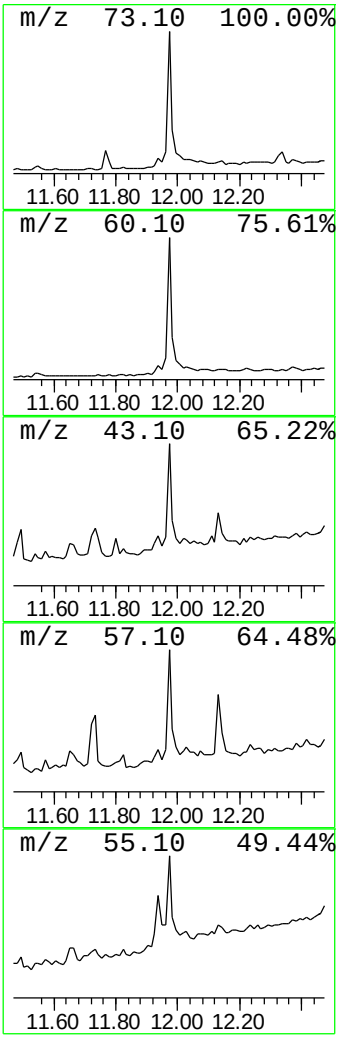
****

Peak Number 13 Pentadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	8.80 ng	601450	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecanoic acid	242	C15H30O2	001002-84-2	60
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	60
3	Tridecanoic acid	214	C13H26O2	000638-53-9	52
4	Octadecanoic acid	284	C18H36O2	000057-11-4	49
5	10-Methylnonadecane	282	C20H42	056862-62-5	11





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

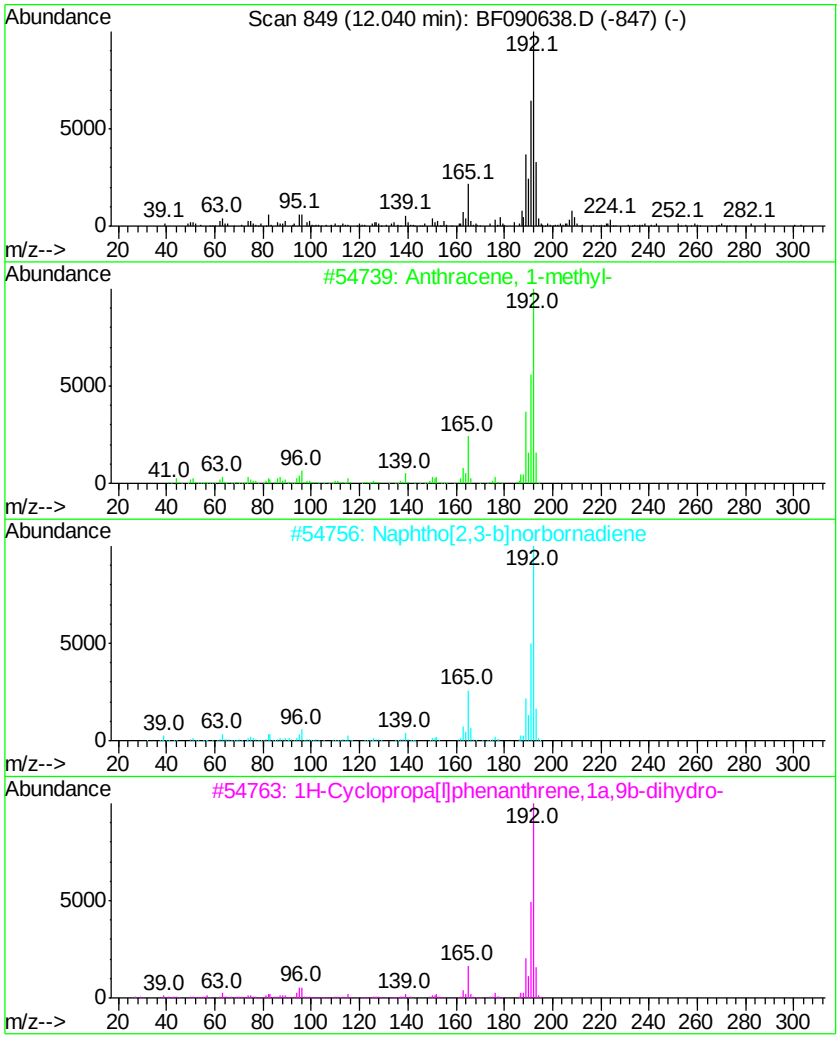
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

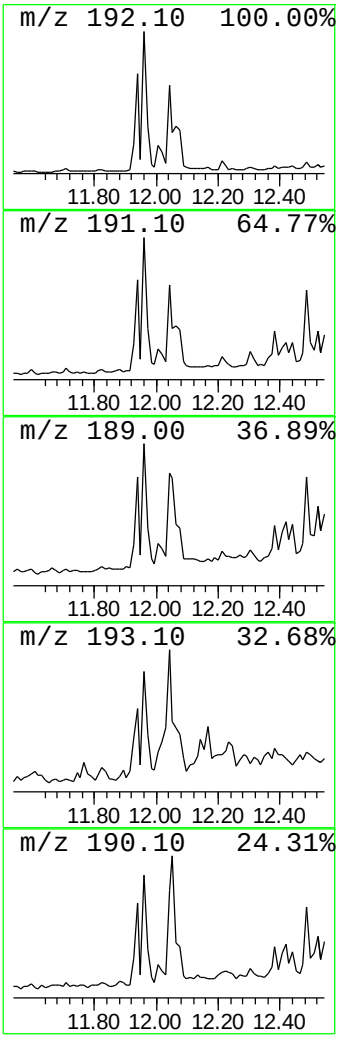
****

Peak Number 14 Anthracene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	4.10 ng	280417	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
2	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	76
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	76
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	76
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	70





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

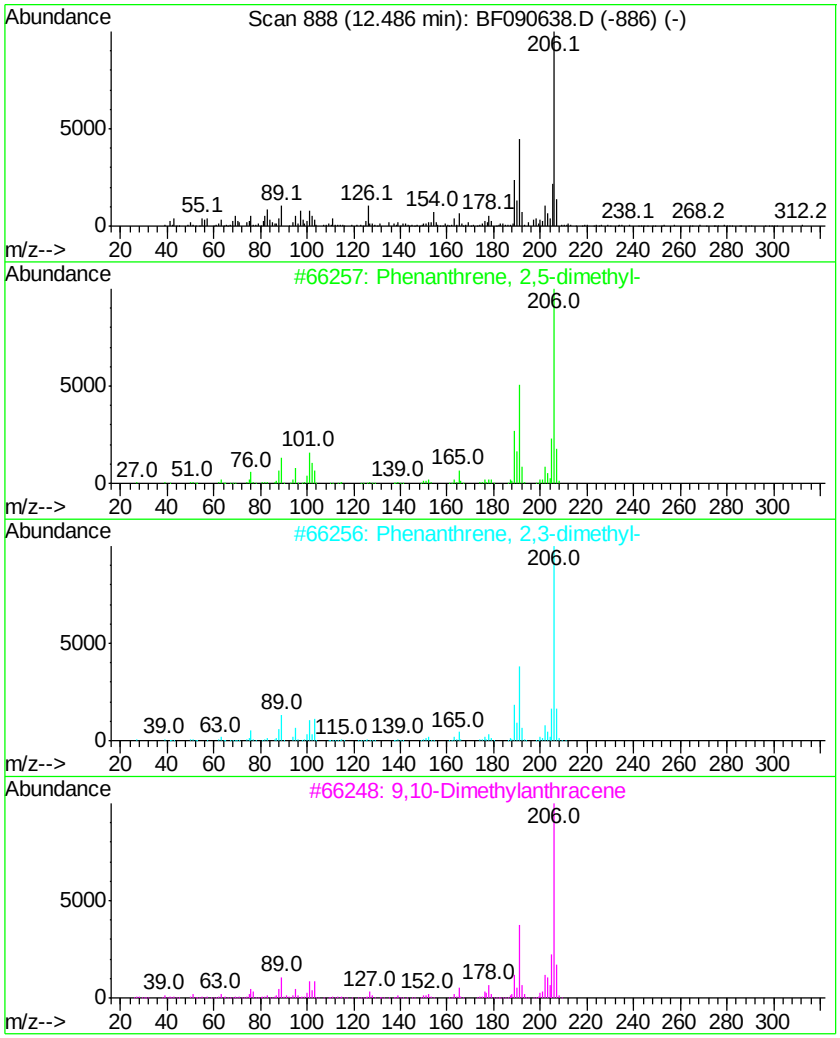
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

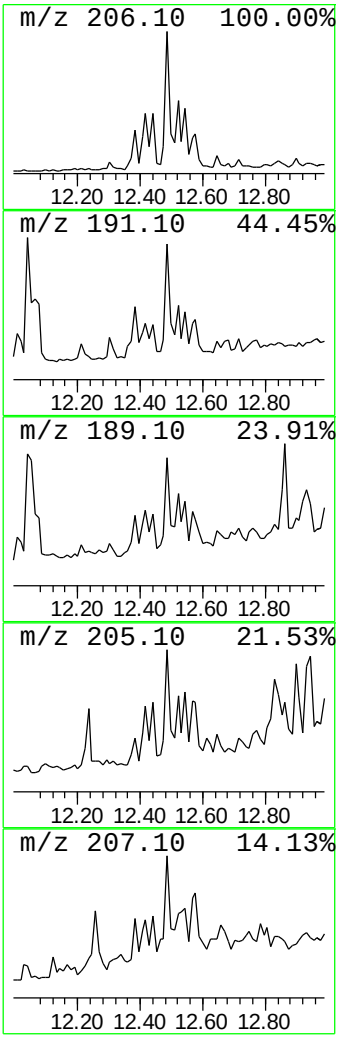
****

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	3.25 ng	222031	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	86
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	81
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	68
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	68





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

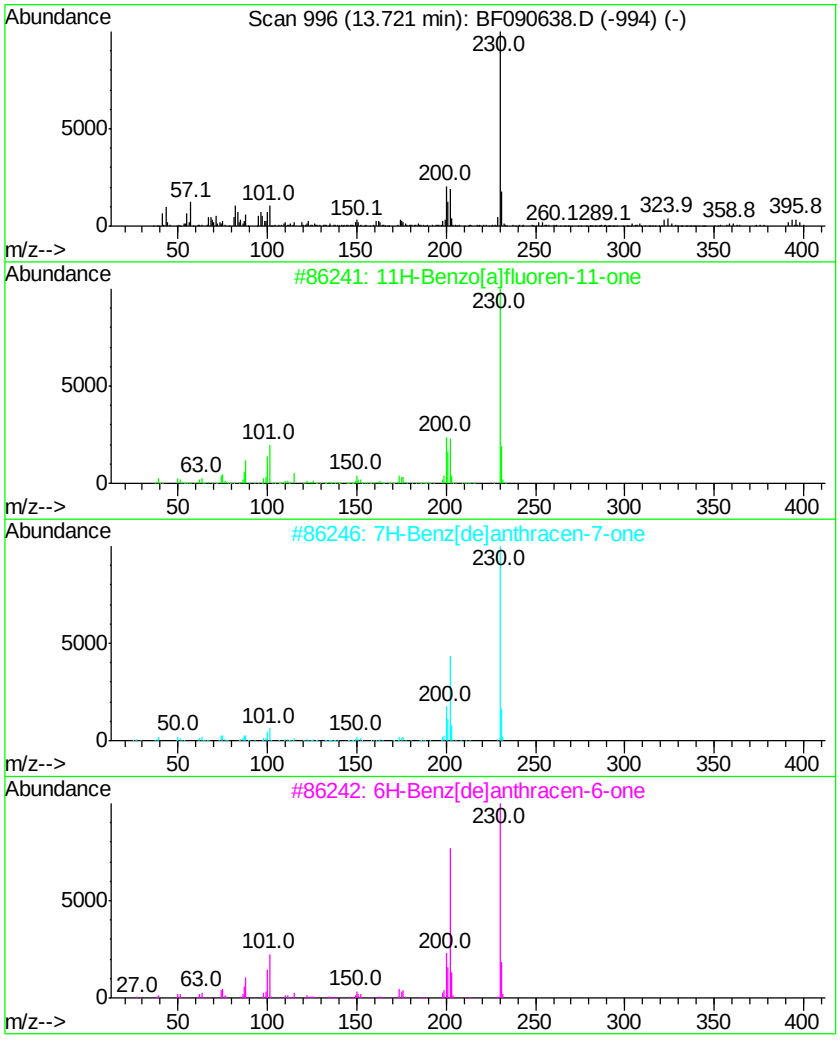
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

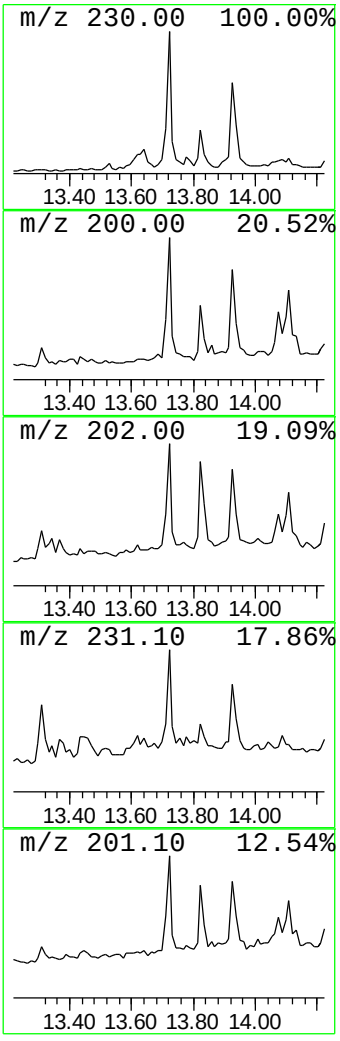
****

Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	2.27 ng	369361	Chrysene-d12	14.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	91
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	86
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	53
4	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	50
5	o-Terphenyl	230	C18H14	000084-15-1	49





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

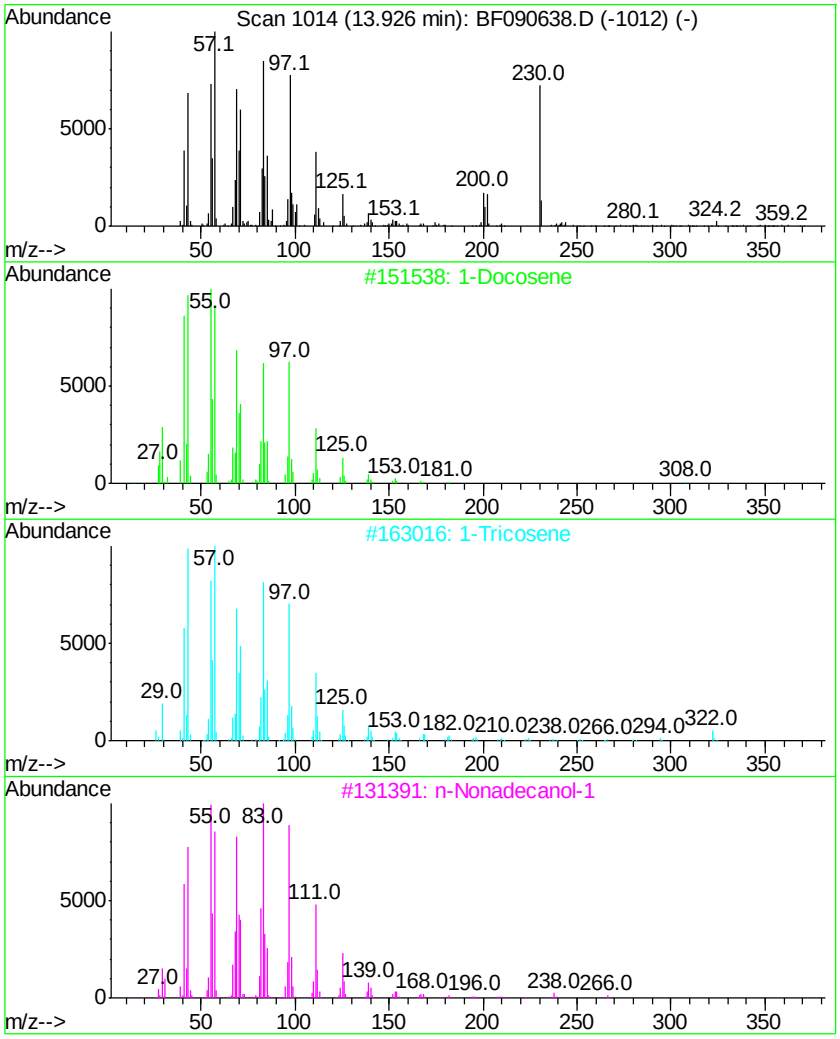
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

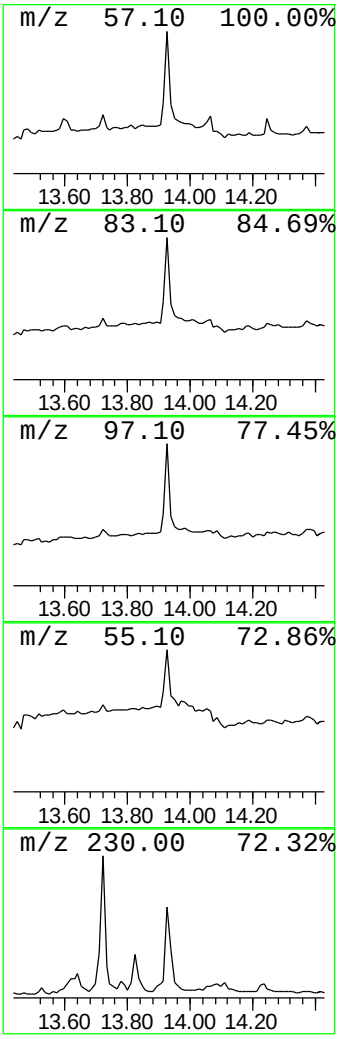
****

Peak Number 17 1-Docosene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.93	4.43 ng	721680	Chrysene-d12	14.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	87
2	1-Tricosene	322	C23H46	018835-32-0	83
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	76
4	1-Heptacosanol	396	C27H56O	002004-39-9	70
5	Behenic alcohol	326	C22H46O	000661-19-8	70





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

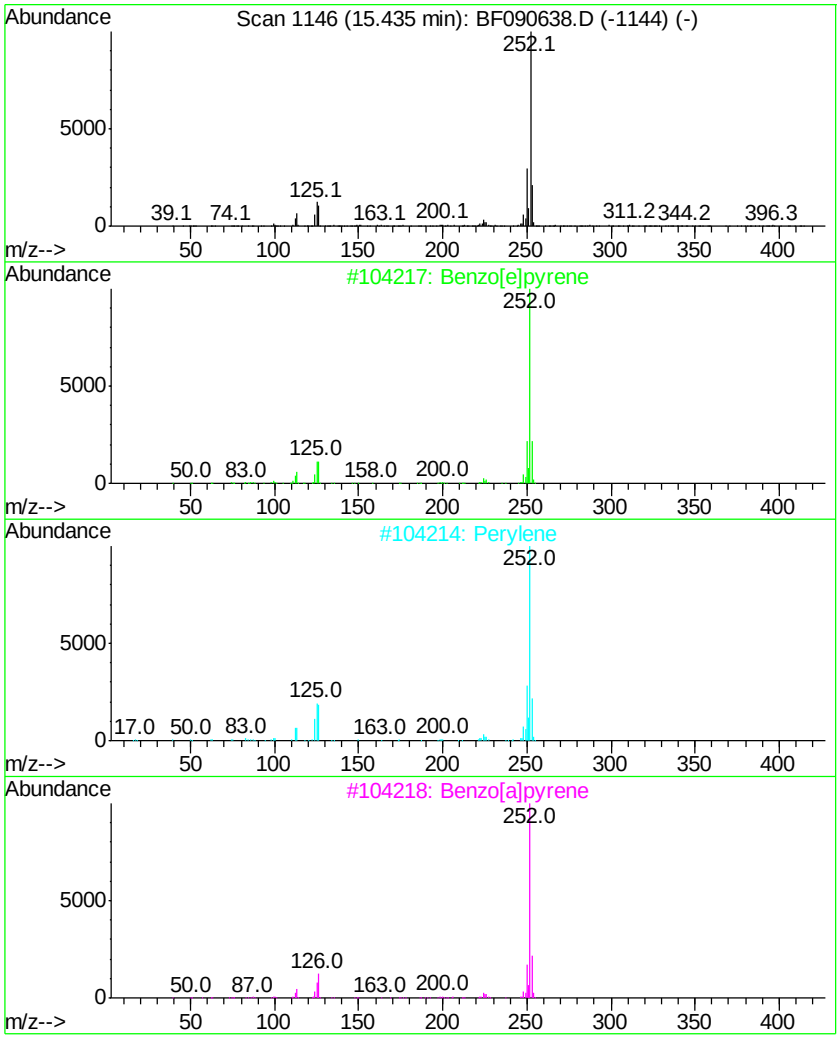
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

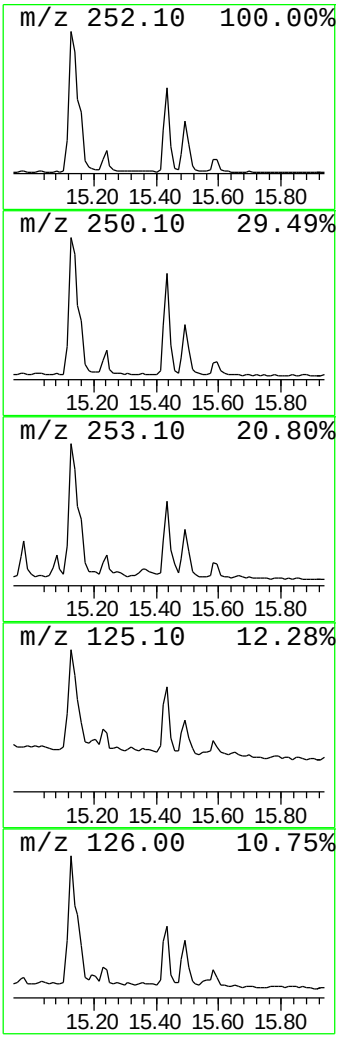
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	5.41 ng	534750	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

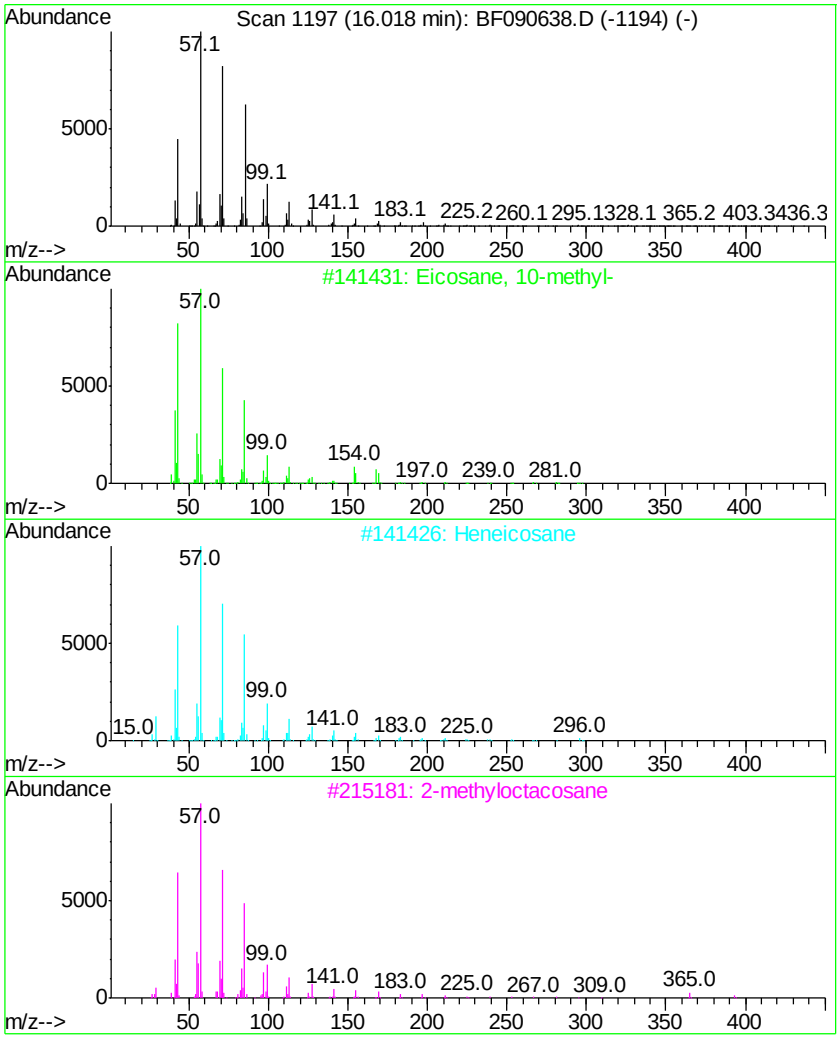
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

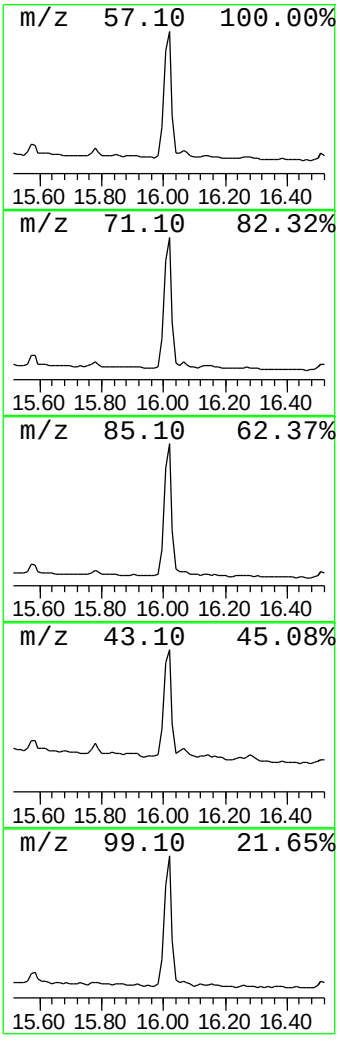
****

Peak Number 19 Eicosane, 10-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.02	14.01 ng	1385500	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	2-methyloctacosane	408	C29H60	1000376-72-8	91
4	2-Bromotetradecane	276	C14H29Br	074036-95-6	90
5	Hexacosane	366	C26H54	000630-01-3	87





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SP-1-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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...	5.08	12.3	ng	866648	1	6.90	1409490	20.0
Butanoic acid, 4-...	5.21	5.4	ng	380341	1	6.90	1409490	20.0
Butanoic acid, 3-...	5.27	3.1	ng	221319	1	6.90	1409490	20.0
unknown6.67	6.67	51.4	ng	3619410	1	6.90	1409490	20.0
Naphthalene, 2,7-...	9.61	2.7	ng	268242	3	9.95	1998310	20.0
Tridecane	9.88	2.1	ng	209125	3	9.95	1998310	20.0
Naphthalene, 2,3,...	10.14	2.5	ng	251828	3	9.95	1998310	20.0
Dodecane	10.37	2.3	ng	231951	3	9.95	1998310	20.0
Heptadecane	10.85	4.3	ng	294057	4	11.43	1366530	20.0
5H-Indeno[1,2-b]p...	11.66	3.9	ng	267244	4	11.43	1366530	20.0
Anthracene, 9-met...	11.94	3.7	ng	250417	4	11.43	1366530	20.0
Pentadecanoic acid	11.97	8.8	ng	601450	4	11.43	1366530	20.0
Anthracene, 1-met...	12.04	4.1	ng	280417	4	11.43	1366530	20.0
Phenanthrene, 2,5...	12.49	3.3	ng	222031	4	11.43	1366530	20.0
11H-Benzo[a]fluor...	13.72	2.3	ng	369361	5	14.09	3255210	20.0
1-Docosene	13.93	4.4	ng	721680	5	14.09	3255210	20.0
Benzo[e]pyrene	15.44	5.4	ng	534750	6	15.56	1978410	20.0
Eicosane, 10-methyl-	16.02	14.0	ng	1385500	6	15.56	1978410	20.0