LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

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-BF063016.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	1.655	4	6	14	rVB	40936	96941	7.99%	0.626%
2	1.770	14	16	49	rVB	576092	1022168	84.30%	6.596%
3	4.799	279	281	285	rBV	103910	145511	12.00%	0.939%
4	5.256	319	321	324	rBV	969529	1152485	95.04%	7.436%
5	6.319	411	414	417	rBV	1026964	1125936	92.85%	7.265%
6	6.433	422	424	427	rVV	1005364	1212607	100.00%	7.824%
7	6.662	442	444	446	rVB	350619	323527	26.68%	2.088%
8	6.822	455	458	460	rBV	1178427	968488	79.87%	6.249%
9	7.233	491	494	496	rVB	819237	745383	61.47%	4.810%
10	7.530	518	520	524	rVB	18967	20117	1.66%	0.130%
11	7.702	534	535	540	rVB4	8470	12611	1.04%	0.081%
12	7.862	544	549	551	rBV3	9001	18003	1.48%	0.116%
13	7.953	554	557	559	rBV	505689	467364	38.54%	3.016%
14	8.170	574	576	578	rBV2	12133	17685	1.46%	0.114%
15	8.228	579	581	584	rVB3	15382	24177	1.99%	0.156%
16	8.399	593	596	600	rVB3	15509	28869	2.38%	0.186%
17	8.502	603	605	608	rBV4	12731	18373	1.52%	0.119%
18	8.662	617	619	621	rVB3	14246	15672	1.29%	0.101%
19	8.765	626	628	633	rVB2	11942	16595	1.37%	0.107%
20	9.028	649	651	653	rVB	1118128	1188946	98.05%	7.672%
21	9.119	656	659	661	rBV2	12011	20550	1.69%	0.133%
22	9.176	661	664	667	rVB5	5560	13204	1.09%	0.085%
23	9.428	684	686	688	rVB	204897	169338	13.96%	1.093%
24	9.565	696	698	701	rBV	20942	26104	2.15%	0.168%
25	9.611	701	702	704	rVV	10011	14145	1.17%	0.091%
26	9.656	704	706	708	rVV	11598	14242	1.17%	0.092%
27	9.702	708	710	712	rVV	482803	421450	34.76%	2.719%
28	9.736	712	713	715	rVB	40755	31302	2.58%	0.202%
29	9.908	726	728	729	rBV	18244	14717	1.21%	0.095%
30	10.022	736	738	741	rBV4	9995	17871	1.47%	0.115%
31	10.113	744	746	748	rVV2	13912	19976	1.65%	0.129%
32	10.148	748	749	752	rVV	18218	20205	1.67%	0.130%
33	10.251	755	758	761	rVB2	24315	30178	2.49%	0.195%
34	10.319	761	764	767	rBV3	5259	15859	1.31%	0.102%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.365	767	768	770	rVB	12141	14921	1.23%	0.096%
36	10.411	770	772	775	rVB3	8387	12710	1.05%	0.082%
37	10.491	777	779	781	rBV	665452	591888	48.81%	3.819%
38	10.628	789	791	795	rVB	23469	42286	3.49%	0.273%
39	10.948	814	819	821	rBV3	10712	24242	2.00%	0.156%
40	10.994	821	823	825	rVB	13796	18869	1.56%	0.122%
41	11.039	825	827	828	rBV	11506	13718	1.13%	0.089%
42	11.074	828	830	831	rBV	35275	33030	2.72%	0.213%
43	11.176	837	839	841	rBV	252405	462981	38.18%	2.987%
44	11.256	843	846	848	rVV	94060	80151	6.61%	0.517%
45	11.416	858	860	861	rBV	20006	15915	1.31%	0.103%
46	11.496	864	867	870	rVB2	22693	39374	3.25%	0.254%
47	11.656	878	881	882	rBV2	7523	17123	1.41%	0.110%
48	11.679	882	883	885	rVV	45731	60952	5.03%	0.393%
49	11.714	885	886	888	rVB	70689	50427	4.16%	0.325%
50	11.759	888	890	891	rBV	36227	29690	2.45%	0.192%
51	11.794	891	893	897	rVB2	89080	123658	10.20%	0.798%
52	11.896	901	902	905	rVB2	9957	19603	1.62%	0.126%
53	11.976	908	909	910	rBV	37014	36674	3.02%	0.237%
54	12.125	920	922	924	rVB	14487	16379	1.35%	0.106%
55	12.159	924	925	929	rBV2	17570	29371	2.42%	0.190%
56	12.239	929	932	933	rBV	33213	50635	4.18%	0.327%
57	12.274	933	935	937	rBV2	14518	25677	2.12%	0.166%
58	12.319	937	939	943	rVB2	25119	30887	2.55%	0.199%
59	12.388	943	945	948	rBV	456443	427140	35.22%	2.756%
60	12.445	948	950	952	rBV2	10969	21210	1.75%	0.137%
61	12.537	955	958	959	rBV2	19745	35840	2.96%	0.231%
62	12.617	962	965	967	rBV	500710	514779	42.45%	3.322%
63	12.662	967	969	972	rVB2	20457	39145	3.23%	0.253%
64	12.765	976	978	981	rVB	767488	906631	74.77%	5.850%
65	12.834	981	984	988	rBV4	29550	69604	5.74%	0.449%
66	12.948	990	994	996	rVB	62862	91911	7.58%	0.593%
67	13.017	996	1000	1001	rBV	41493	59010	4.87%	0.381%
68	13.051	1001	1003	1004	rBV	55553	60723	5.01%	0.392%
69	13.142	1009	1011	1012	rBV	31269	30252	2.49%	0.195%
70	13.165	1012	1013	1015	rBV	24386	32168	2.65%	0.208%
71	13.451	1036	1038	1042	rVB	33332	36578	3.02%	0.236%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.554	1045	1047	1049	rBV2	35817	57996	4.78%	0.374%
73	13.680	1055	1058	1061	rBV3	52874	104487	8.62%	0.674%
74	13.805	1066	1069	1074	rBV2	358981	812201	66.98%	5.241%
75	14.811	1154	1157	1161	rVB	175278	301031	24.83%	1.942%
76	15.074	1178	1180	1183	rVB	107862	145724	12.02%	0.940%
77	15.131	1183	1185	1187	rVB	125748	142999	11.79%	0.923%
78	15.188	1187	1190	1191	rBV	177009	221741	18.29%	1.431%
79	16.468	1300	1302	1307	rVB2	49485	94806	7.82%	0.612%

Sum of corrected areas: 15497736

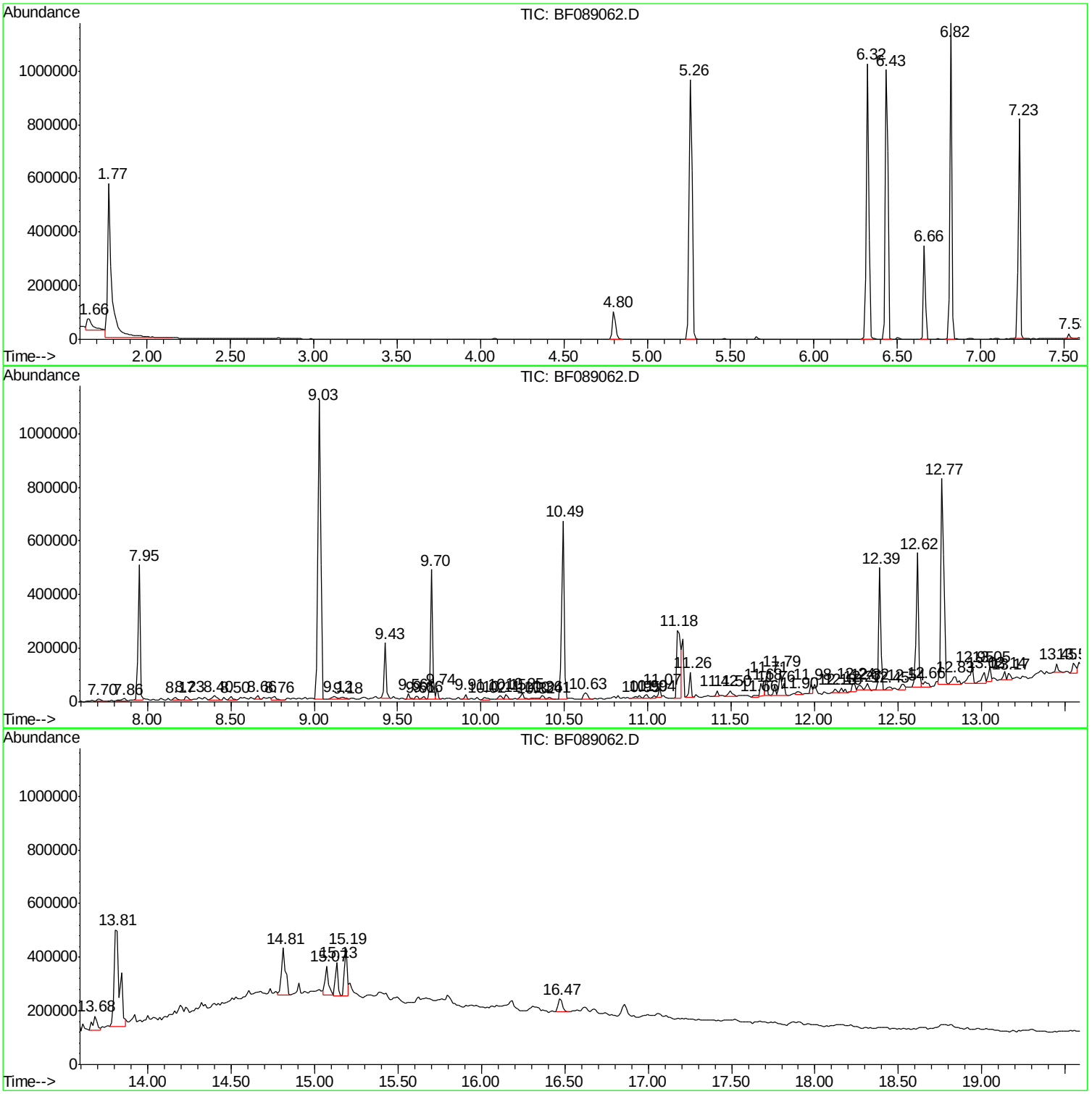
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

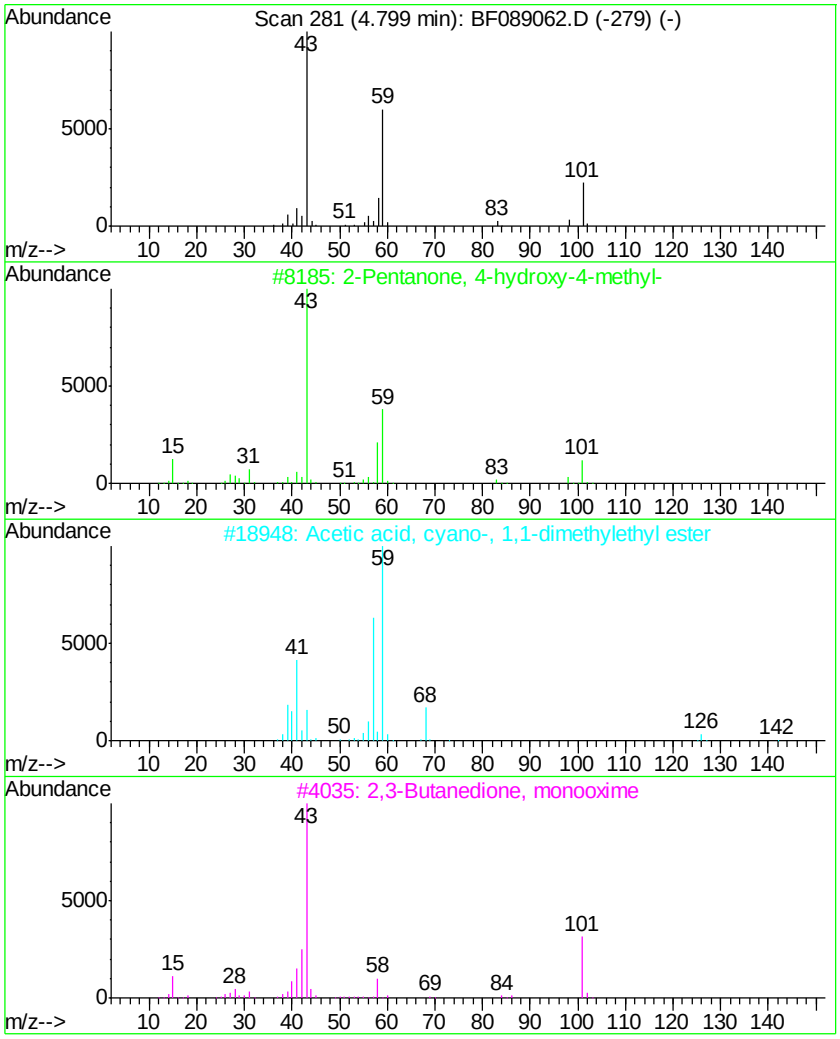
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

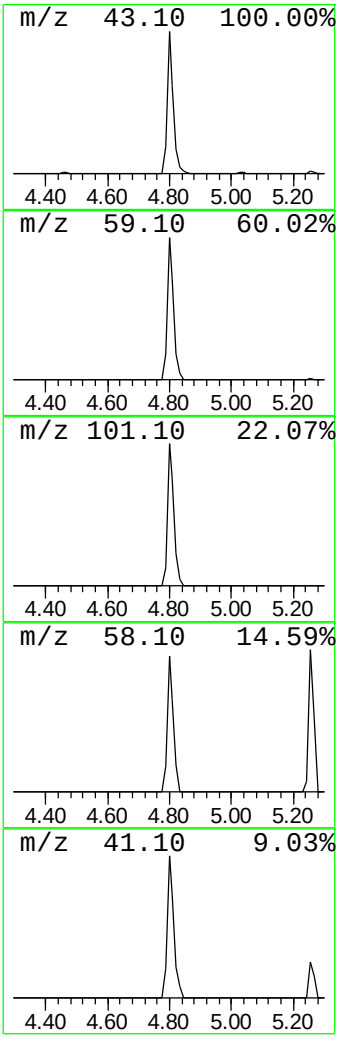
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.80	9.00 ng	145511	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	5-Hexen-2-one	98	C6H10O	000109-49-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

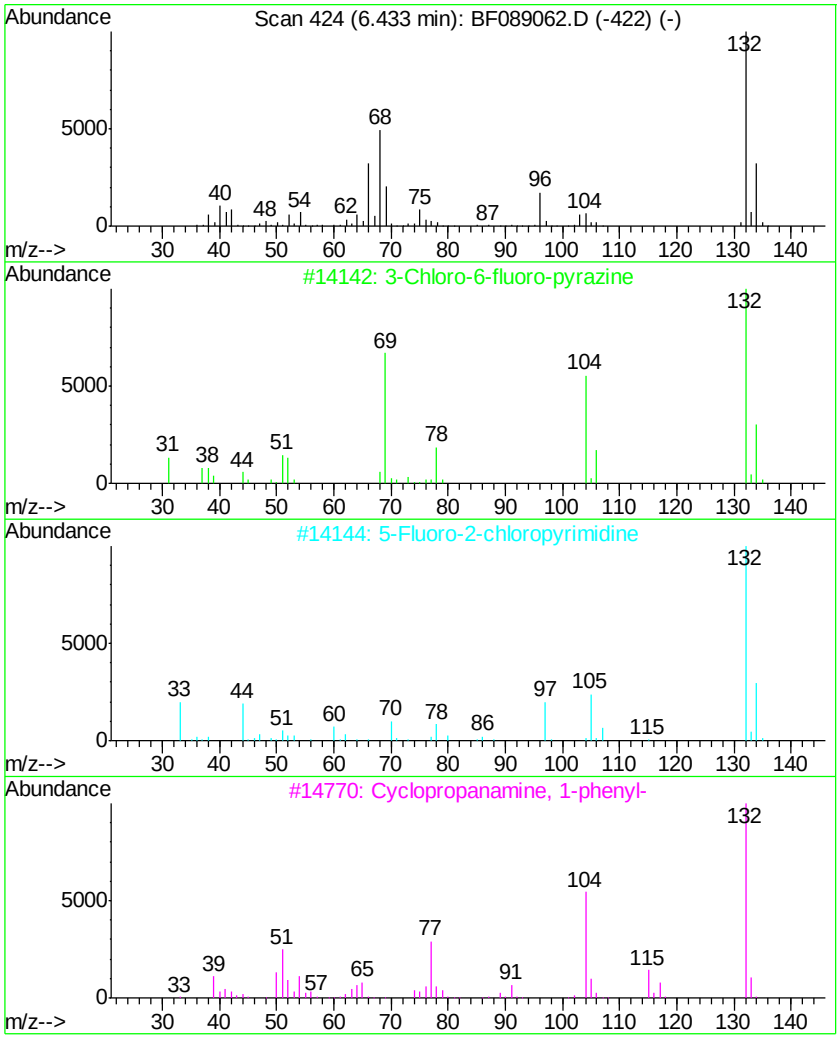
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

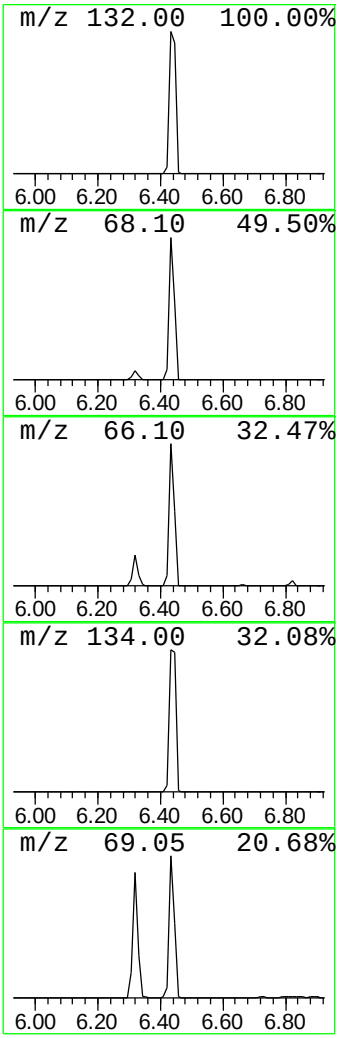
****

Peak Number 4 unknown6.43 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.43	74.96 ng	1212610	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10
4	N-(-3,4-Methylenedioxyphenylisop...	267	C17H17NO2	1000378-96-6	10
5	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

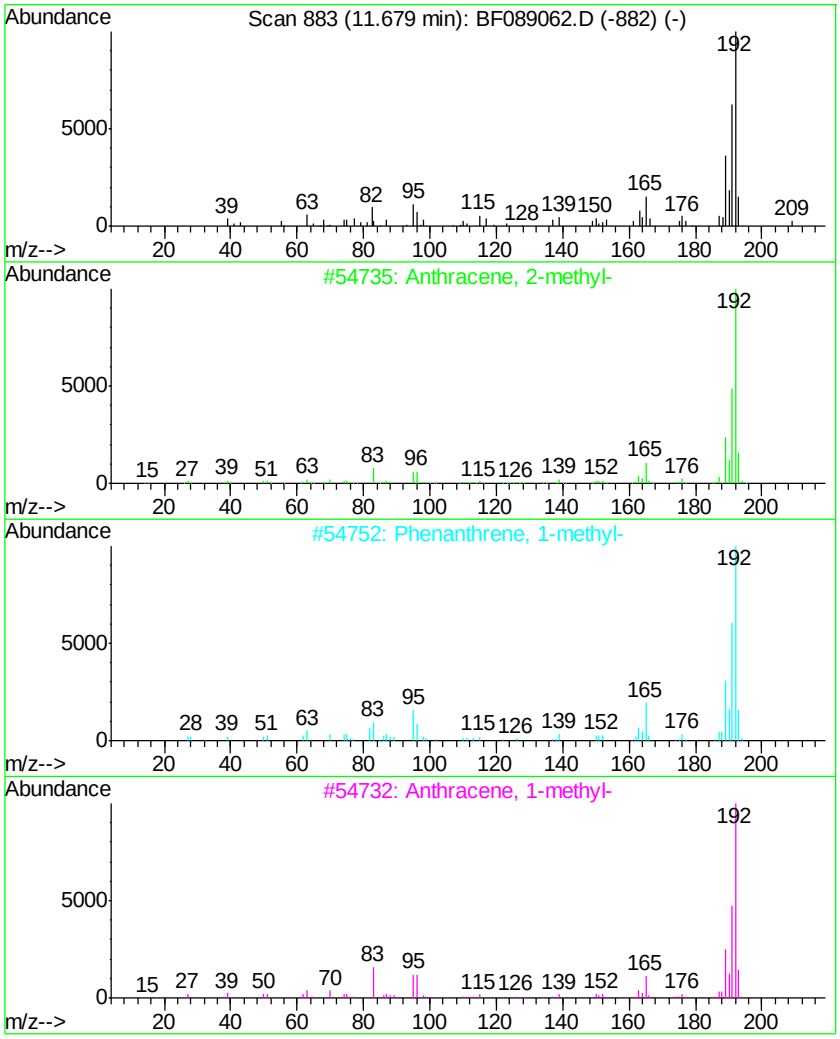
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

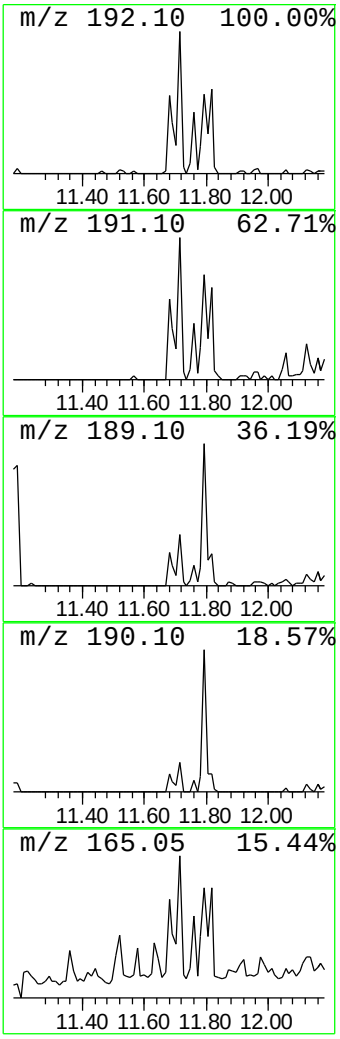
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	2.63 ng	60952	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	89
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

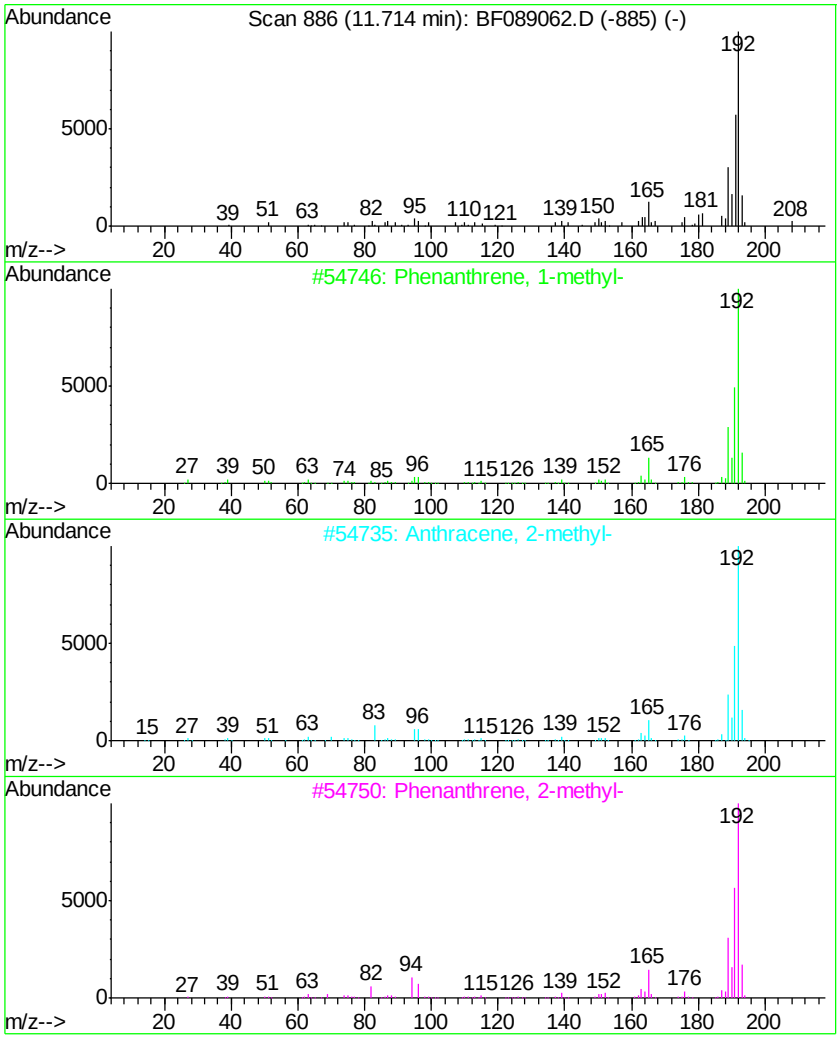
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

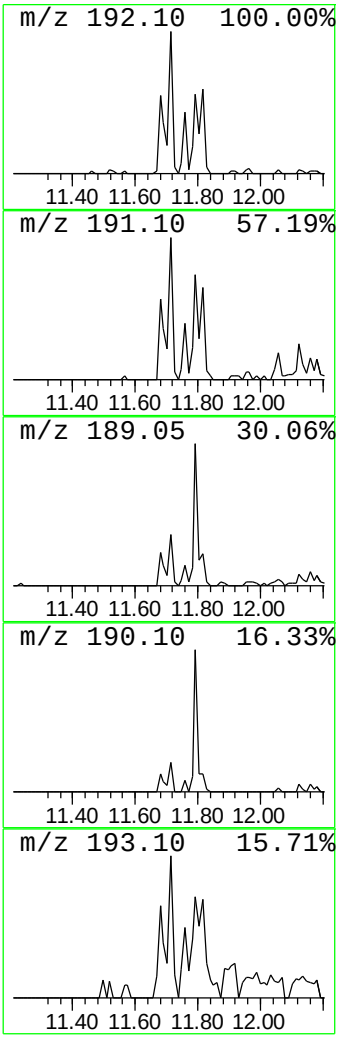
****

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	2.18 ng	50427	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

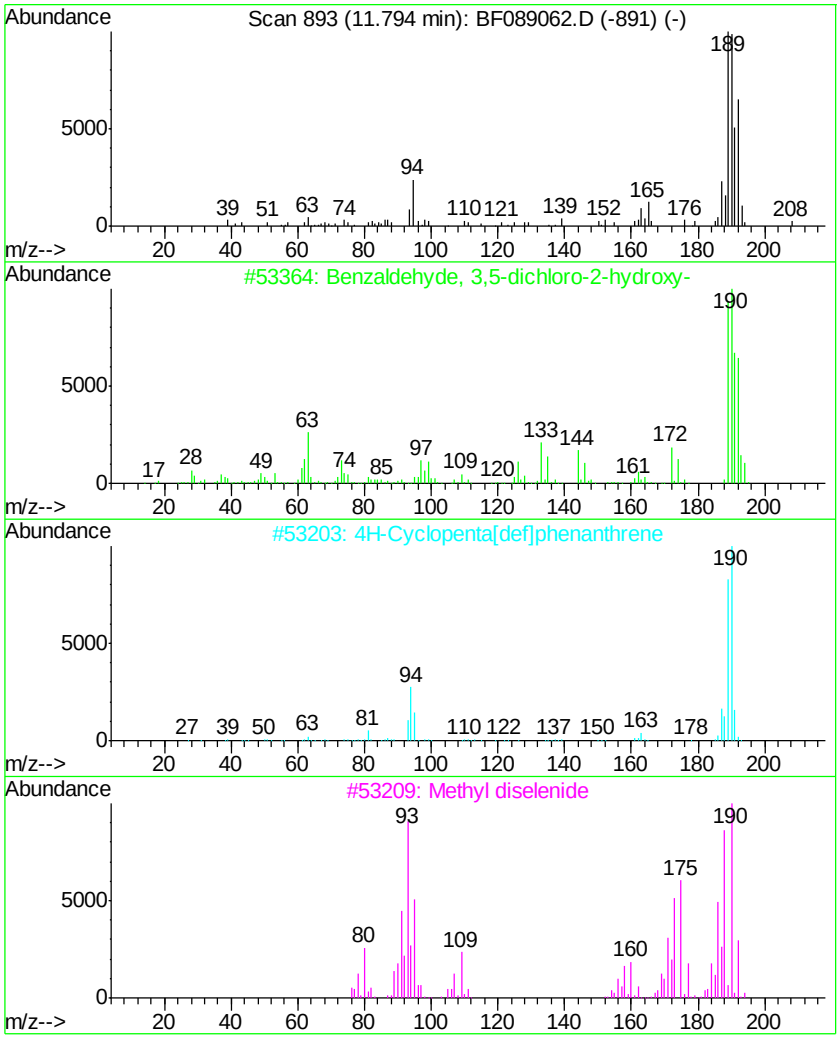
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

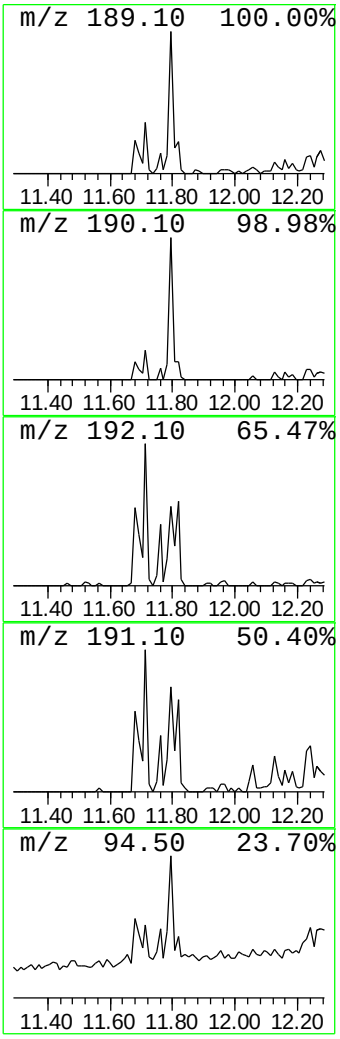
****

Peak Number 8 Benzaldehyde, 3,5-dichloro-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	5.34 ng	123658	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35
5	3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	27





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

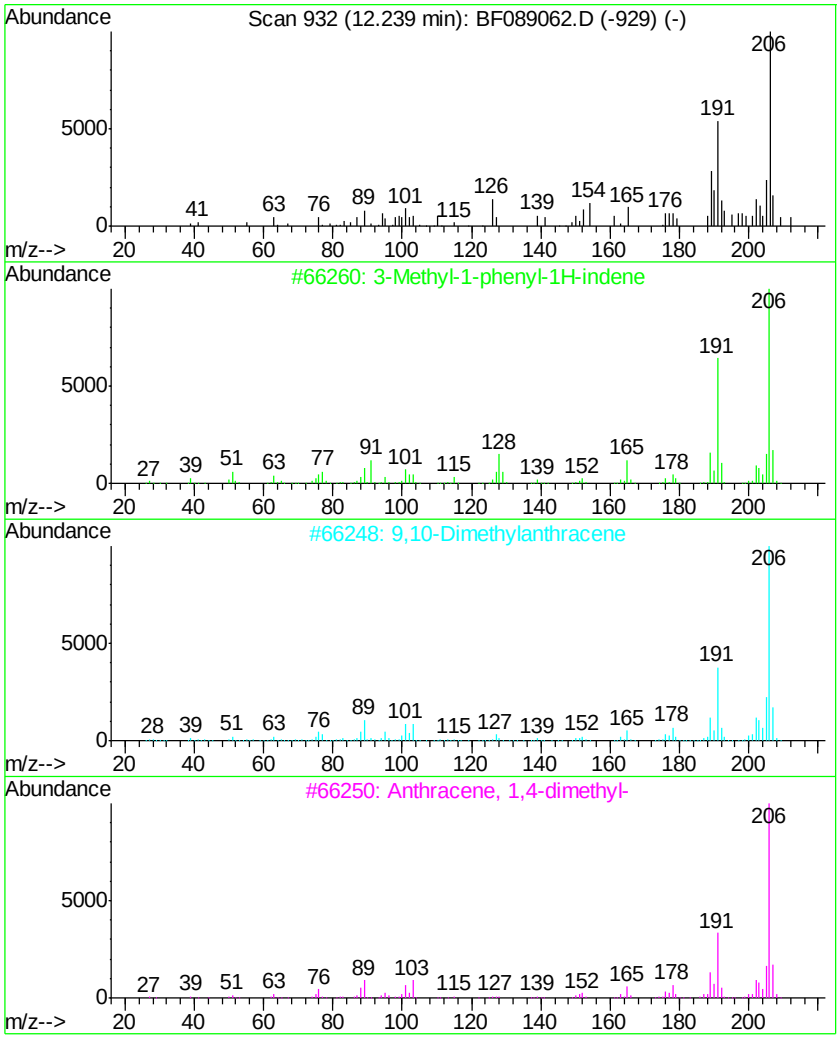
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

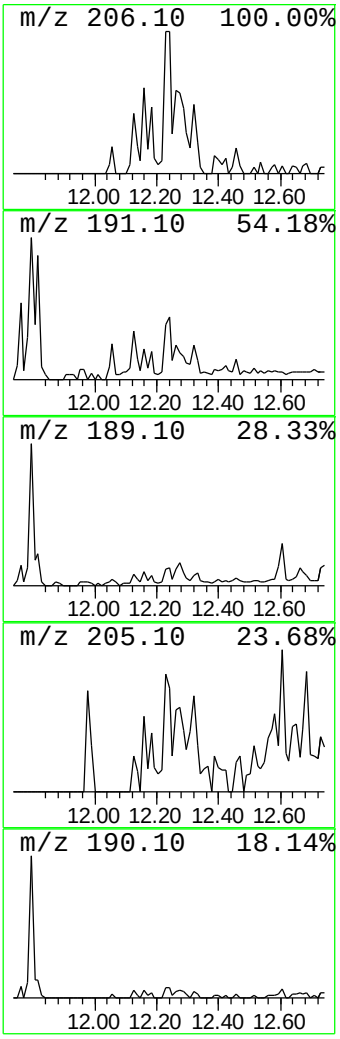
****

Peak Number 9 3-Methyl-1-phenyl-1H-indene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	2.19 ng	50635	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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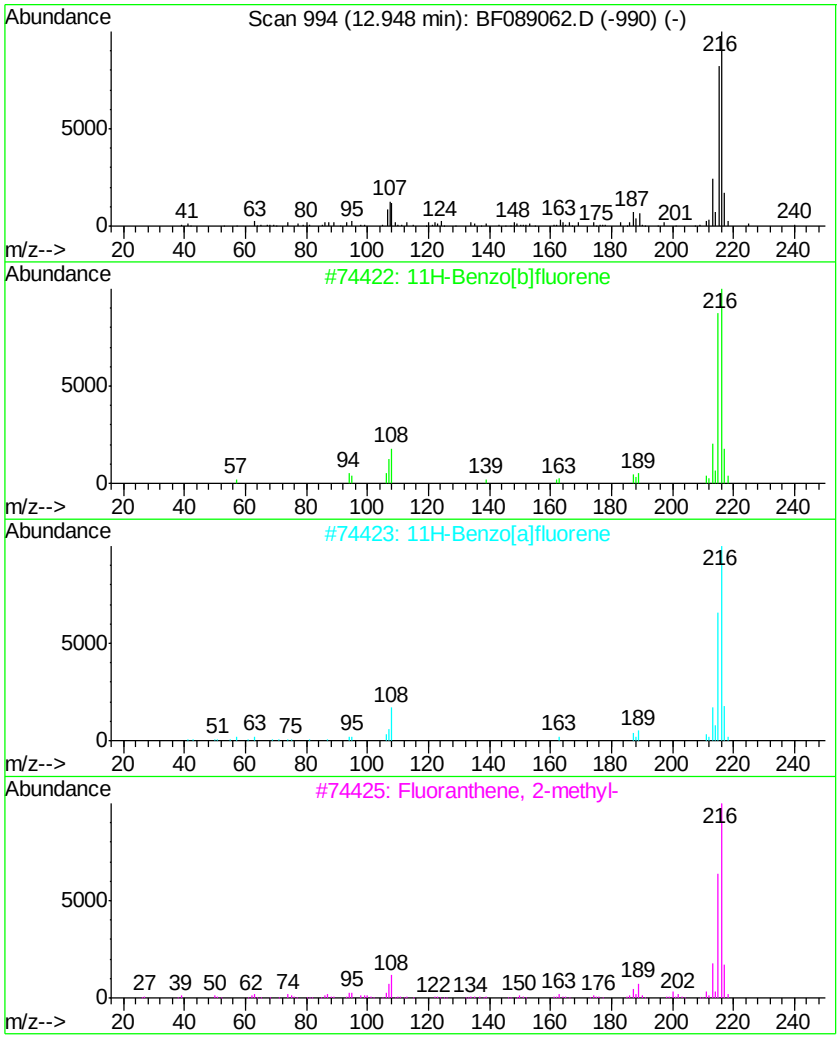
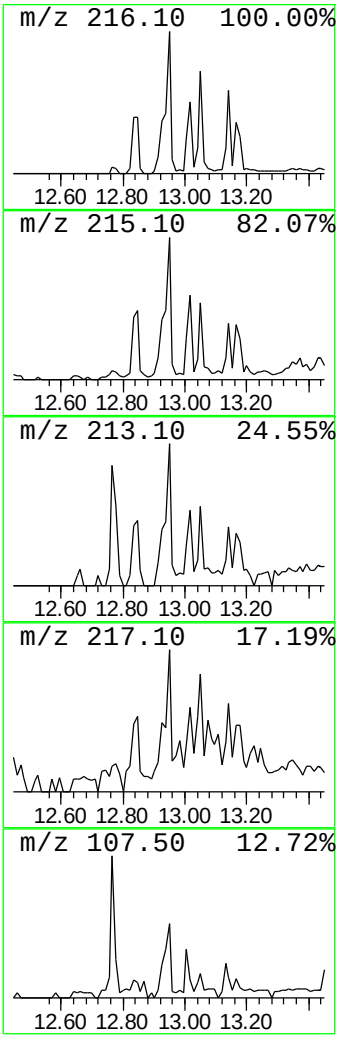
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	2.26 ng	91911	Chrysene-d12	13.82

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





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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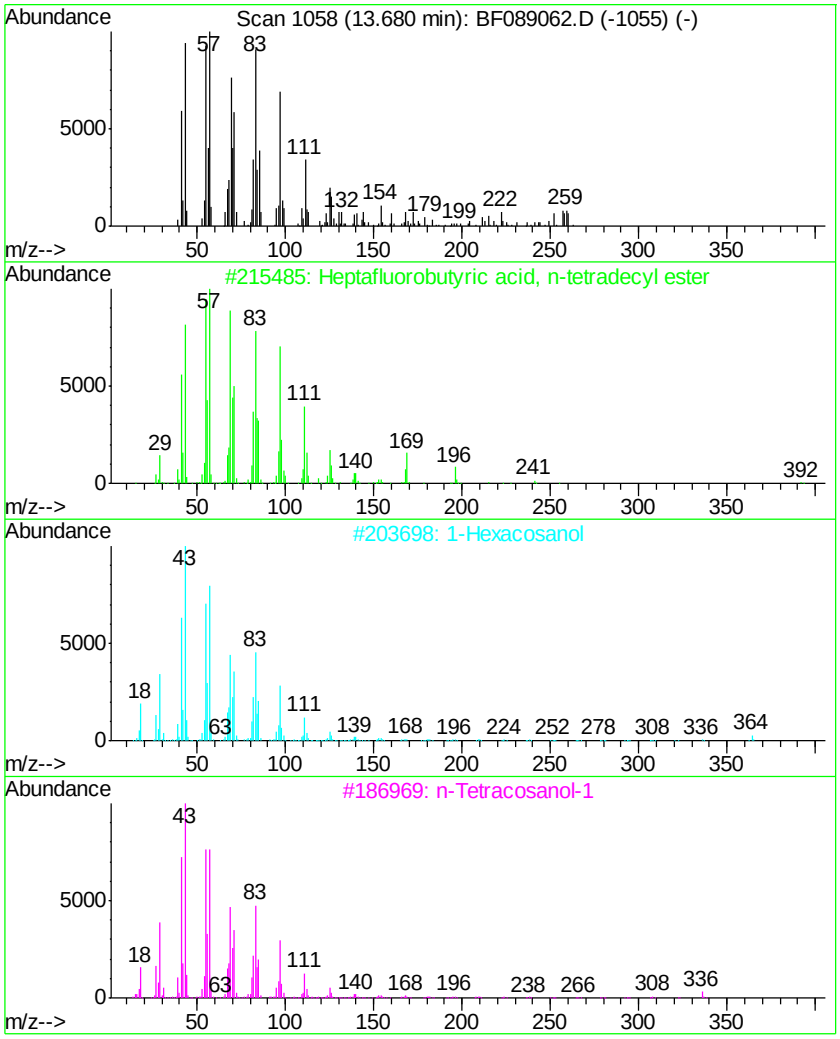
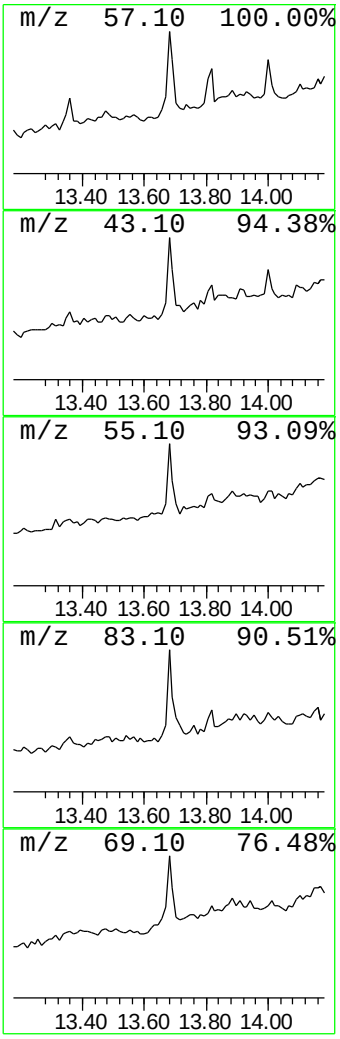
Peak Number 11 Heptafluorobutyric acid, n-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	2.57 ng	104487	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	91
2	1-Hexacosanol	382	C26H54O	000506-52-5	91
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
4	17-Pentatriacontene	491	C35H70	006971-40-0	91
5	E-15-Heptadecenal	252	C17H32O	1000130-97-9	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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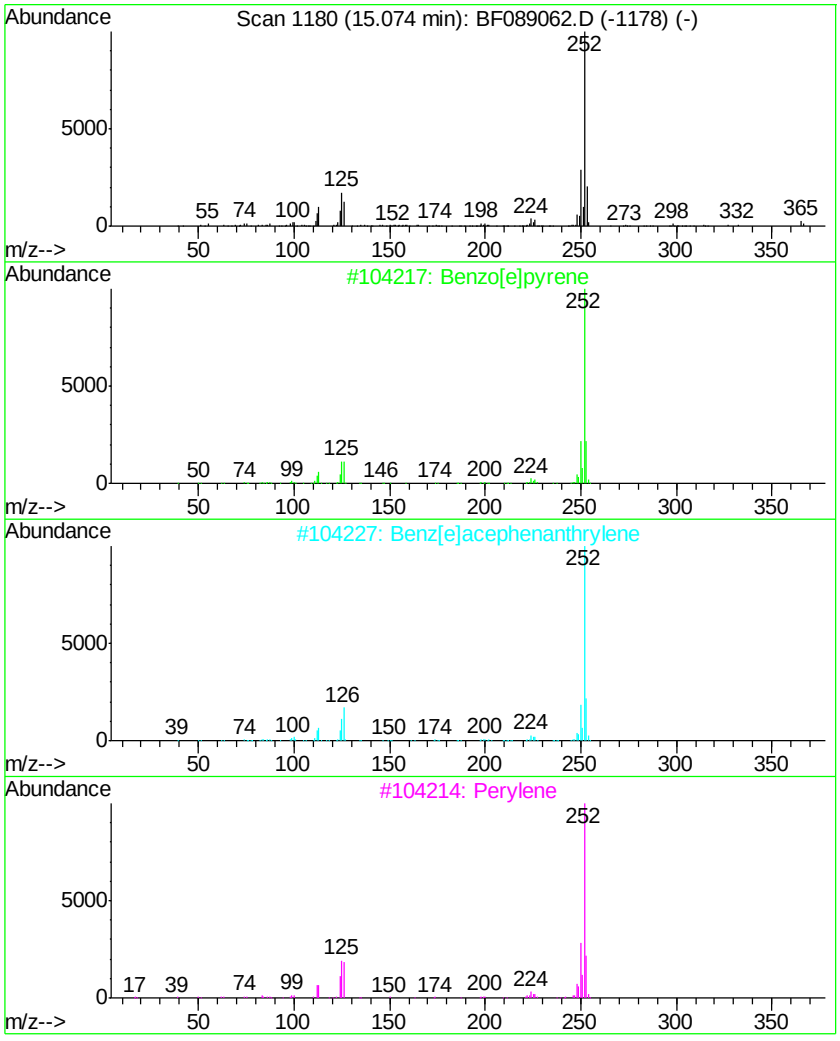
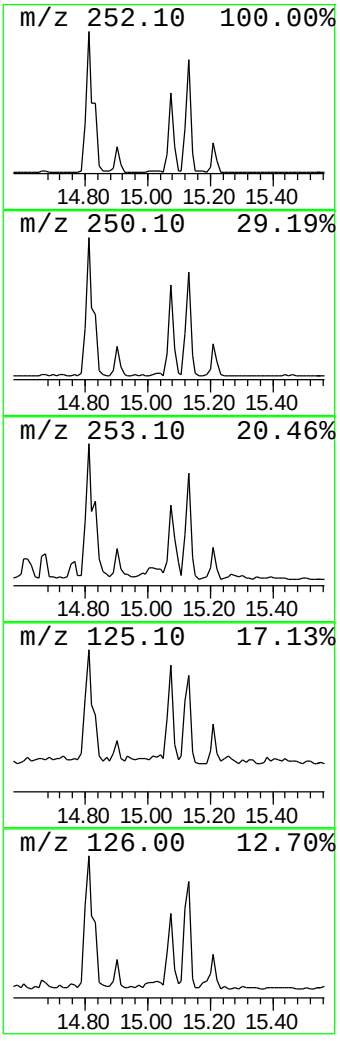
Peak Number 12 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	13.14 ng	145724	Perylene-d12	15.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071616\
Data File : BF089062.D
Acq On : 16 Jul 2016 18:43
Operator : UM/SJ
Sample : H3989-15
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : U2-B3(0-11)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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...	4.80	9.0	ng	145511	1	6.66	323527	20.0
unknown6.43	6.43	75.0	ng	1212610	1	6.66	323527	20.0
Anthracene, 2-met...	11.68	2.6	ng	60952	4	11.19	462981	20.0
Phenanthrene, 1-m...	11.71	2.2	ng	50427	4	11.19	462981	20.0
Benzaldehyde, 3,5...	11.79	5.3	ng	123658	4	11.19	462981	20.0
3-Methyl-1-phenyl...	12.24	2.2	ng	50635	4	11.19	462981	20.0
11H-Benzo[b]fluorene	12.95	2.3	ng	91911	5	13.82	812201	20.0
Heptafluorobutyri...	13.68	2.6	ng	104487	5	13.82	812201	20.0
Benzo[e]pyrene	15.07	13.1	ng	145724	6	15.19	221741	20.0