LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM113017.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.675	772	780	791	rBV	798990	1303991	3.99%	0.695%
2	10.451	1242	1252	1256	rBV	1182764	2072482	6.34%	1.104%
3	10.504	1256	1261	1270	rVV	4474436	7302585	22.35%	3.891%
4	12.122	1526	1536	1542	rBV	2050042	3256162	9.97%	1.735%
5	12.339	1564	1573	1584	rVB	1199205	2061033	6.31%	1.098%
6	13.139	1702	1709	1716	rBV	723350	1117992	3.42%	0.596%
7	13.339	1732	1743	1758	rVB	345918	745872	2.28%	0.397%
8	13.474	1758	1766	1768	rBV2	417473	752728	2.30%	0.401%
9	13.633	1783	1793	1798	rBV	662308	1259130	3.85%	0.671%
10	13.686	1798	1802	1807	rVV	373799	540423	1.65%	0.288%
11	13.869	1823	1833	1837	rBV	265401	501654	1.54%	0.267%
12	14.039	1858	1862	1868	rVB	248999	377642	1.16%	0.201%
13	14.316	1899	1909	1915	rBV3	1687338	3035444	9.29%	1.617%
14	14.386	1915	1921	1928	rVV	7397692	11148682	34.12%	5.940%
15	14.527	1938	1945	1954	rBV	150031	391606	1.20%	0.209%
16	14.627	1954	1962	1966	rBV	356182	559195	1.71%	0.298%
17	14.716	1966	1977	1985	rVB	4007098	5893768	18.04%	3.140%
18	15.368	2082	2088	2094	rBV	5444820	7785937	23.83%	4.148%
19	15.463	2099	2104	2106	rVV3	275185	427651	1.31%	0.228%
20	15.492	2106	2109	2112	rVV2	507361	735607	2.25%	0.392%
21	15.527	2112	2115	2120	rVV2	692702	1035393	3.17%	0.552%
22	15.580	2120	2124	2127	rVV2	221477	376413	1.15%	0.201%
23	15.616	2127	2130	2134	rVV2	381581	571784	1.75%	0.305%
24	15.663	2134	2138	2147	rVB	878631	1297043	3.97%	0.691%
25	15.810	2155	2163	2171	rVV	836506	1729496	5.29%	0.921%
26	15.898	2171	2178	2186	rVB3	171222	415178	1.27%	0.221%
27	16.045	2197	2203	2216	rVB3	379974	722863	2.21%	0.385%
28	16.163	2216	2223	2230	rBV6	120313	331577	1.01%	0.177%
29	16.374	2255	2259	2264	rVV2	496088	790223	2.42%	0.421%
30	16.421	2264	2267	2273	rVB2	222566	332949	1.02%	0.177%
31	16.521	2278	2284	2289	rVB3	206204	386126	1.18%	0.206%
32	16.727	2314	2319	2326	rVB	837475	1261487	3.86%	0.672%
33	16.827	2326	2336	2340	rVV4	476235	1144021	3.50%	0.609%
34	16.886	2340	2346	2357	rVB	1515106	2292939	7.02%	1.222%

LSC Area Percent Report

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Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM113017.M
Title : SVOA CALIBRATION

35	17.068	2371	2377	2380	rBV2	1976819	3039461	9.30%	1.619%
36	17.121	2380	2386	2391	rVV	22750196	32670286	100.00%	17.406%
37	17.168	2391	2394	2395	rVV2	371086	426142	1.30%	0.227%
38	17.204	2395	2400	2405	rVV	3479940	4841767	14.82%	2.580%
39	17.262	2405	2410	2415	rVB2	190540	341327	1.04%	0.182%
40	17.474	2435	2446	2451	rBV	763076	1259689	3.86%	0.671%
41	17.586	2458	2465	2470	rBV2	344395	681414	2.09%	0.363%
42	17.645	2471	2475	2485	rVB5	216812	415227	1.27%	0.221%
43	17.945	2516	2526	2529	rBV	1081290	1649773	5.05%	0.879%
44	17.992	2529	2534	2540	rVB	1505670	2174957	6.66%	1.159%
45	18.068	2540	2547	2552	rBV	547573	854582	2.62%	0.455%
46	18.139	2552	2559	2563	rBV2	2590091	4204924	12.87%	2.240%
47	18.168	2563	2564	2571	rVB	576866	642589	1.97%	0.342%
48	18.445	2606	2611	2615	rBV	829804	1099951	3.37%	0.586%
49	18.492	2615	2619	2625	rVB3	313548	448214	1.37%	0.239%
50	18.692	2645	2653	2658	rBV2	217096	351030	1.07%	0.187%
51	18.862	2676	2682	2686	rBV	274668	486190	1.49%	0.259%
52	19.009	2702	2707	2714	rBV2	377563	633013	1.94%	0.337%
53	19.139	2721	2729	2734	rBV	17293237	23519930	71.99%	12.531%
54	19.374	2764	2769	2773	rVB	407219	527992	1.62%	0.281%
55	19.498	2779	2790	2797	rBV	11141170	18685406	57.19%	9.955%
56	19.562	2797	2801	2809	rVB	416121	605984	1.85%	0.323%
57	19.674	2815	2820	2826	rBV	563454	719989	2.20%	0.384%
58	19.815	2838	2844	2851	rBV4	413779	1065985	3.26%	0.568%
59	19.956	2862	2868	2869	rBV3	288140	457972	1.40%	0.244%
60	19.992	2869	2874	2879	rVB	1194094	1703292	5.21%	0.907%
61	20.092	2886	2891	2895	rBV	1128819	1442029	4.41%	0.768%
62	20.145	2895	2900	2904	rVV2	434907	776004	2.38%	0.413%
63	20.186	2904	2907	2911	rVB	310083	360773	1.10%	0.192%
64	20.333	2928	2932	2936	rVV3	235329	340615	1.04%	0.181%
65	20.903	3023	3029	3032	rBV	488656	697571	2.14%	0.372%
66	20.945	3032	3036	3039	rVV	461824	624443	1.91%	0.333%
67	20.980	3039	3042	3047	rVV2	372536	672328	2.06%	0.358%
68	21.033	3047	3051	3059	rVB2	289755	501536	1.54%	0.267%
69	21.250	3081	3088	3092	rBV2	3125996	6191107	18.95%	3.298%
70	21.292	3092	3095	3106	rVB	2018443	2845549	8.71%	1.516%
71	21.409	3111	3115	3121	rBV	435273	611970	1.87%	0.326%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM113017.M
Title : SVOA CALIBRATION

72	21.568	3137	3142	3147	rBV2	196346	346031	1.06%	0.184%
73	22.815	3348	3354	3359	rBV	704643	1572434	4.81%	0.838%
74	23.286	3430	3434	3440	rVB	271185	423055	1.29%	0.225%
75	23.380	3445	3450	3457	rVB	416288	777797	2.38%	0.414%
76	23.480	3460	3467	3472	rBV	1120081	2051845	6.28%	1.093%

Sum of corrected areas: 187699249

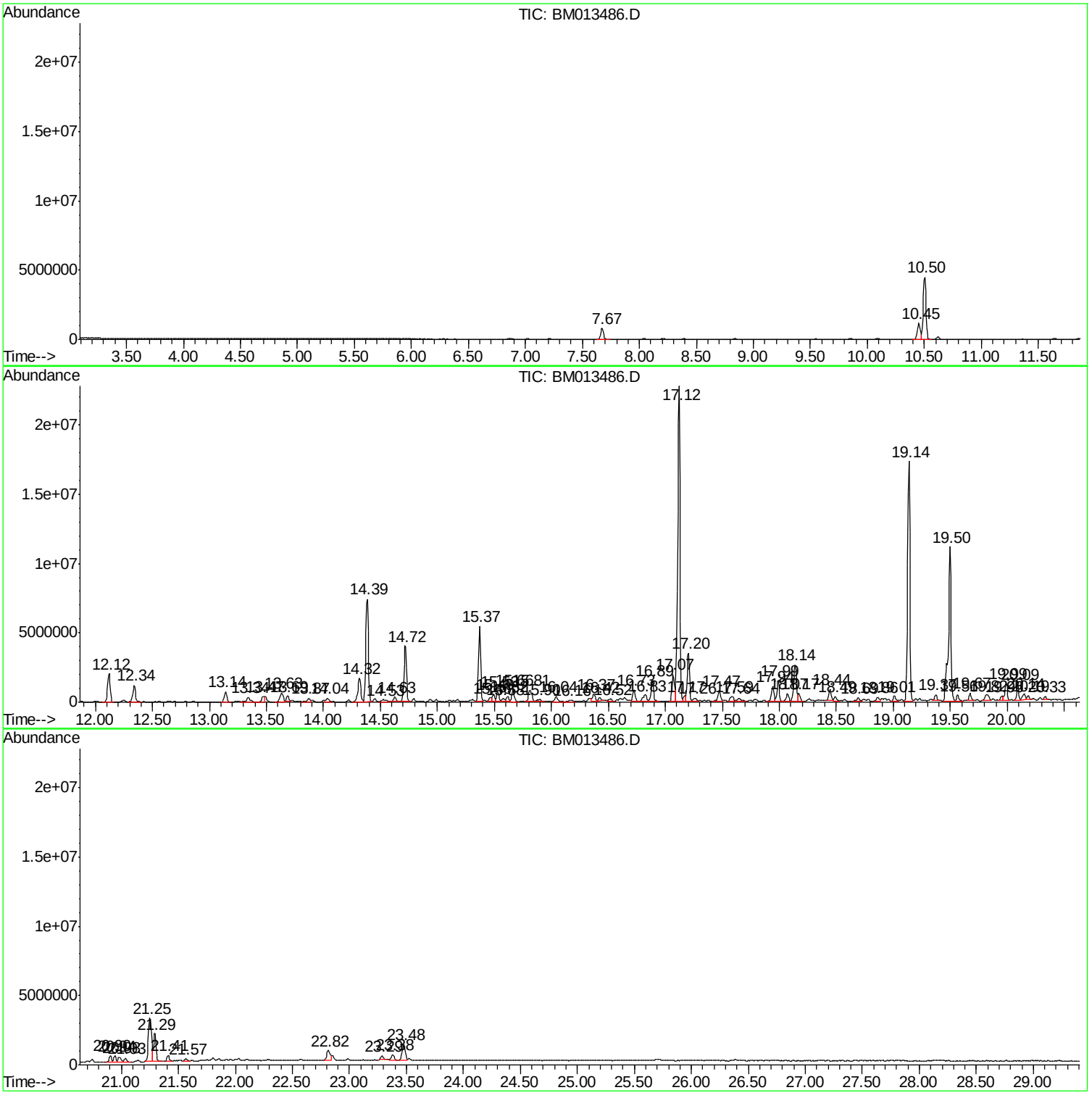
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

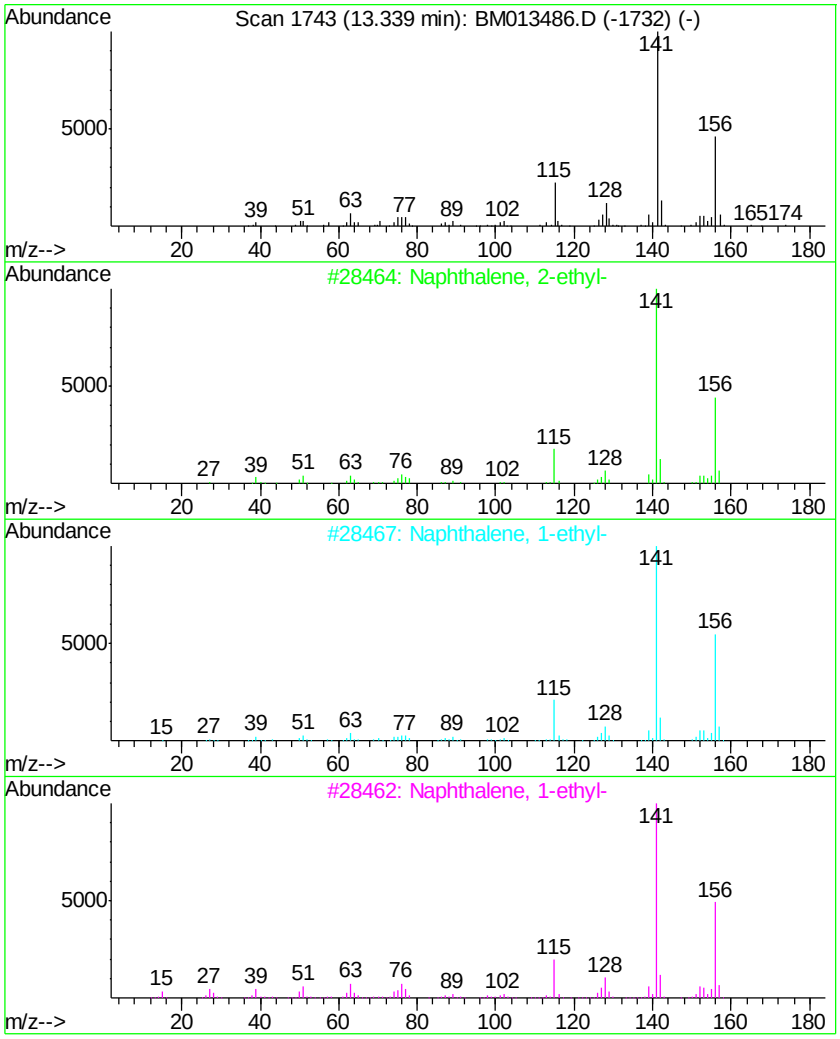
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

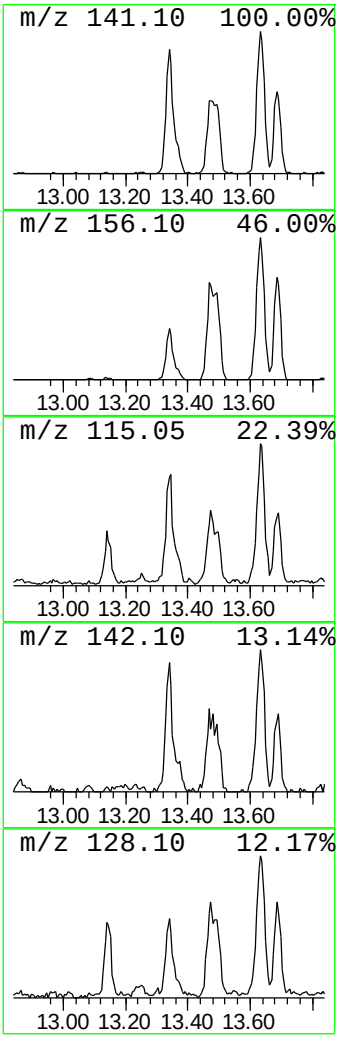
****

Peak Number 2 Naphthalene, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	4.91 ng/ul	745872	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
4	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

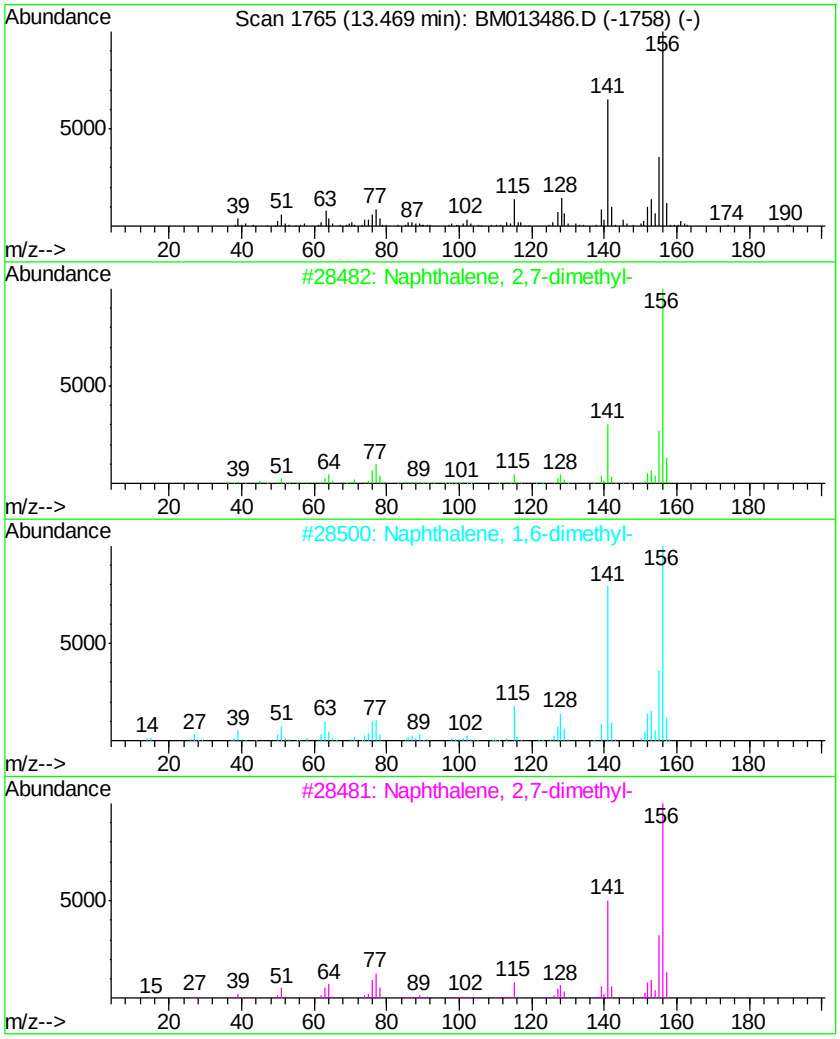
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

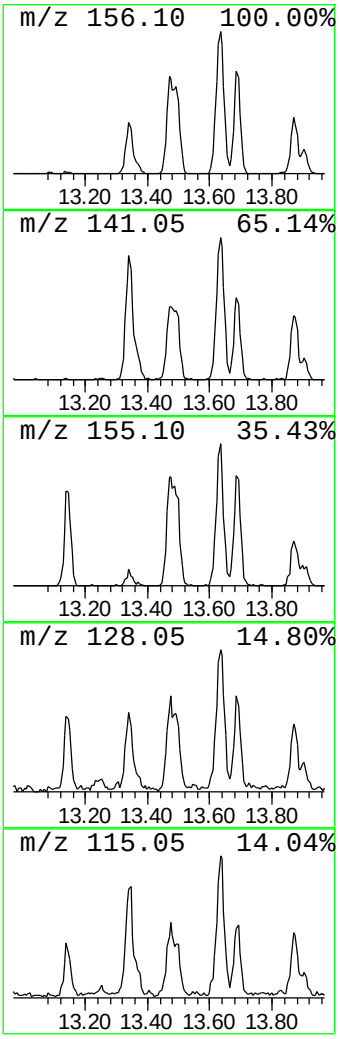
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	4.96 ng/ul	752728	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

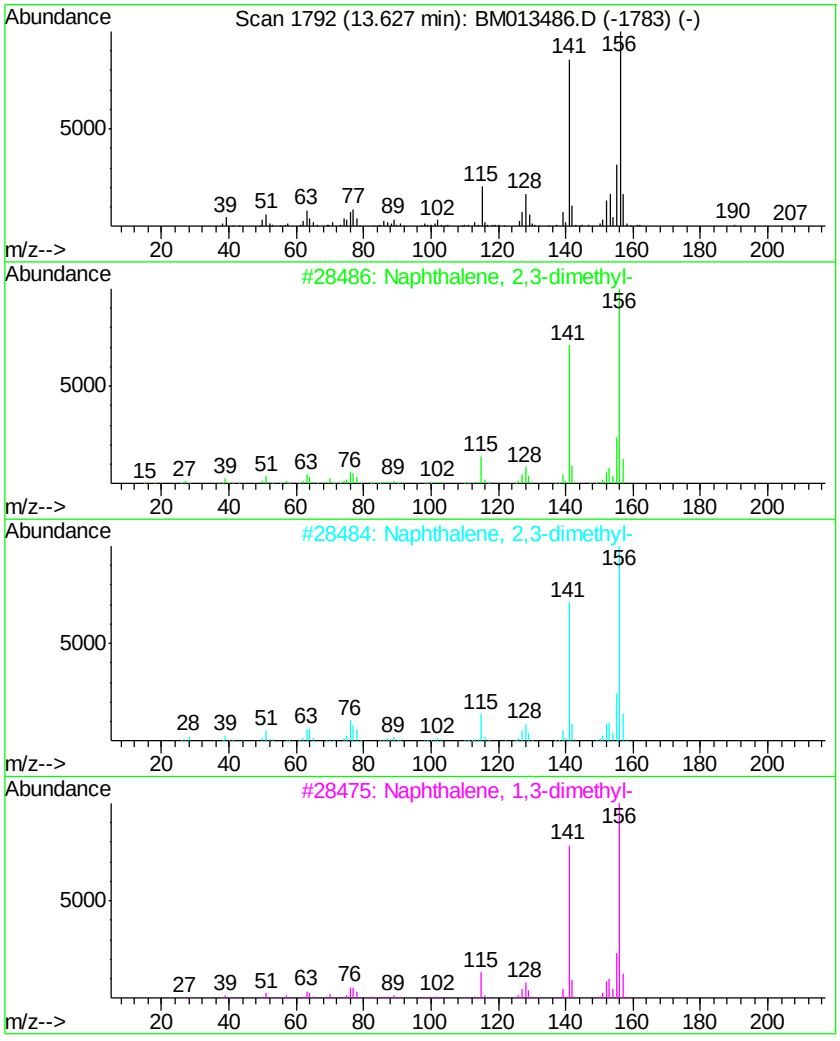
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

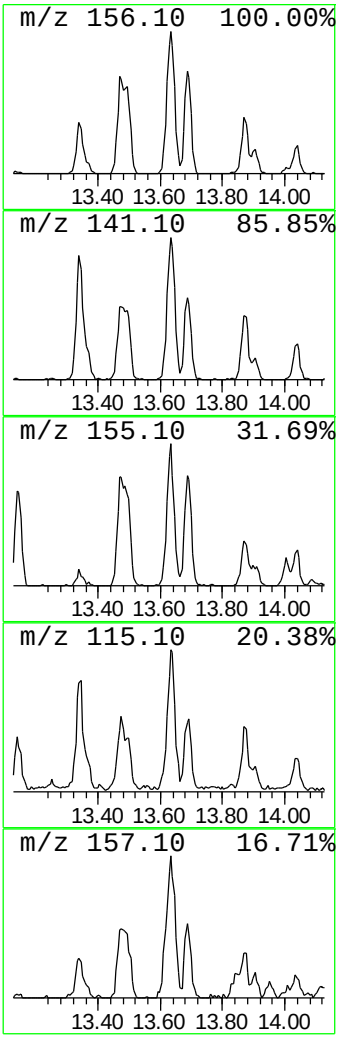
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.63	8.30 ng/ul	1259130	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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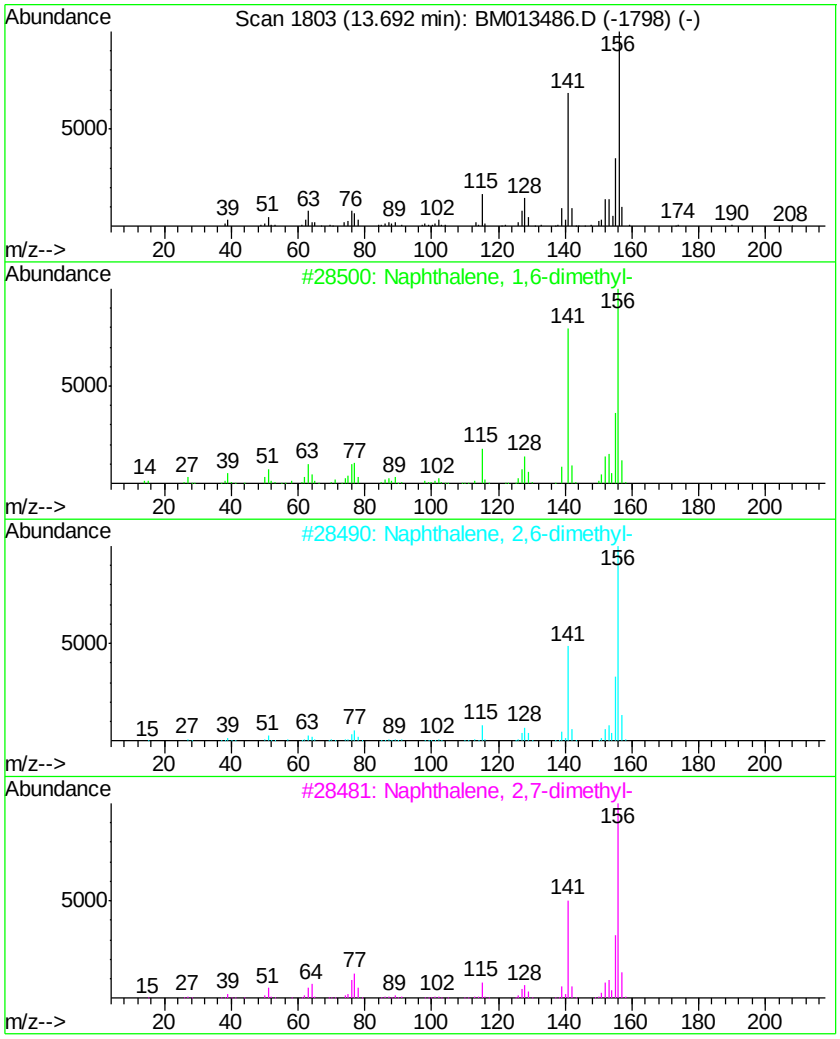
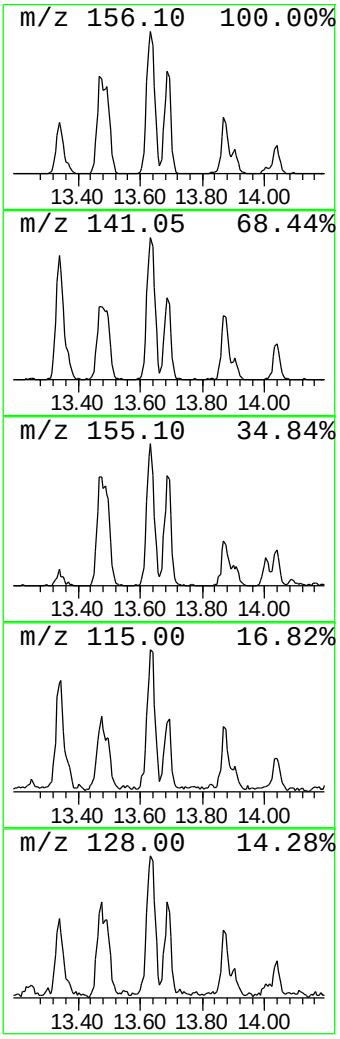
Peak Number 5 Naphthalene, 1,6-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	3.56 ng/ul	540423	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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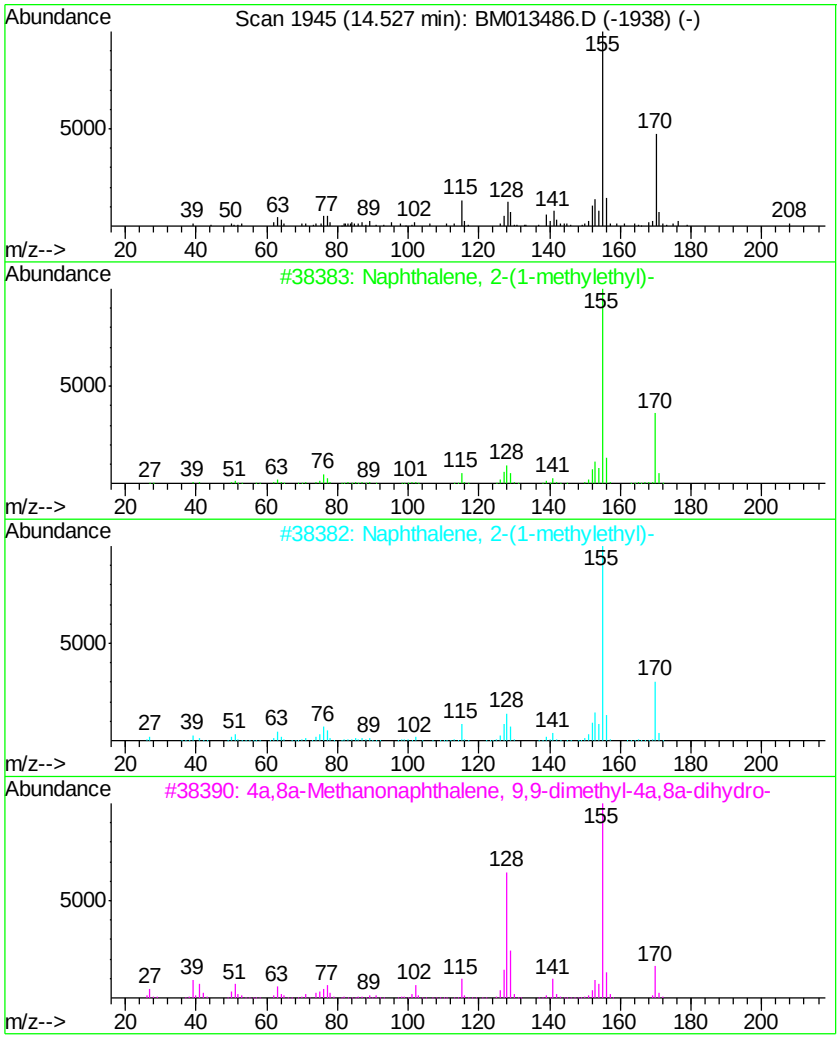
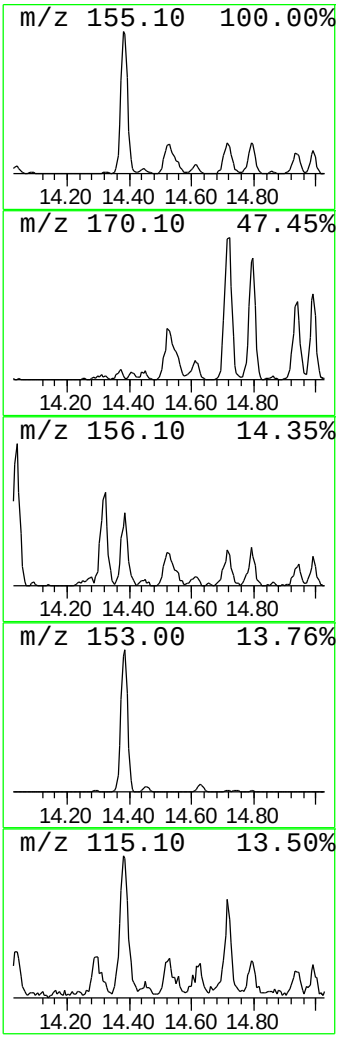
Peak Number 7 Naphthalene, 2-(1-methyleth... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.53	2.58 ng/ul	391606	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	94
2	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	91
3	4a,8a-Methanonaphthalene, 9,9-di...	170	C13H14	038963-97-2	91
4	Ethanone, 1-(5-chloro-2-hydroxyp...	170	C8H7ClO2	001450-74-4	80
5	Naphthalene, 1-(1-methylethyl)-	170	C13H14	006158-45-8	76





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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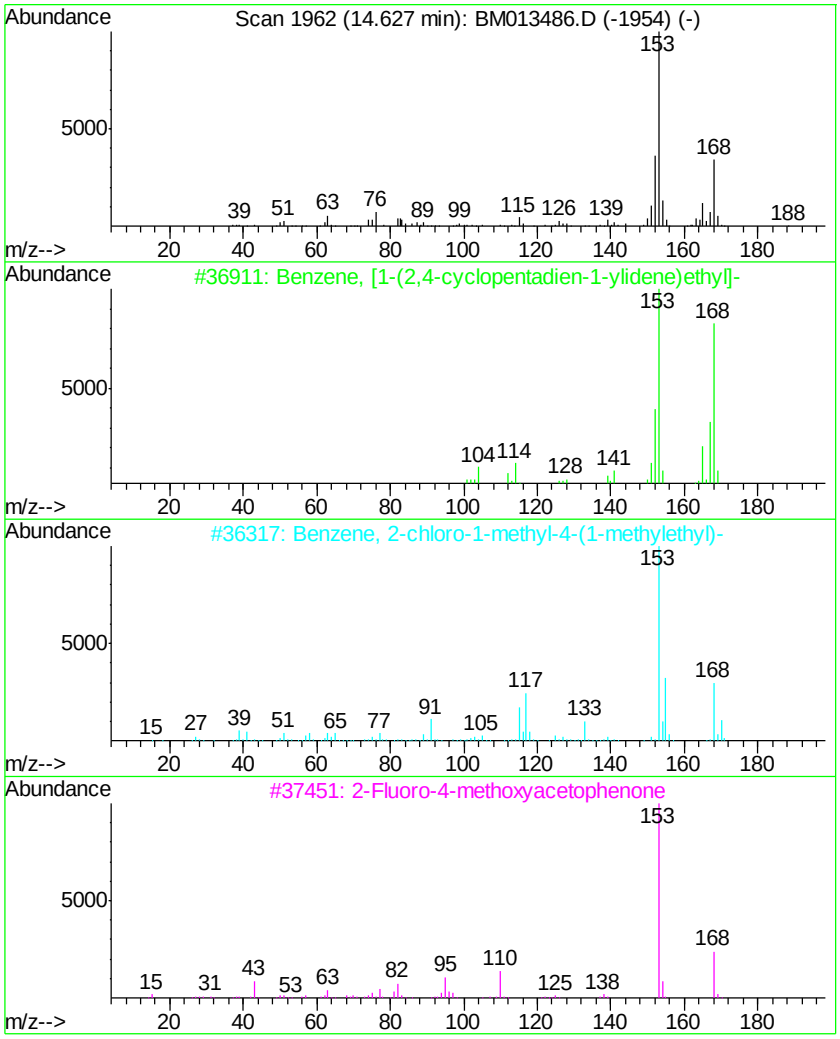
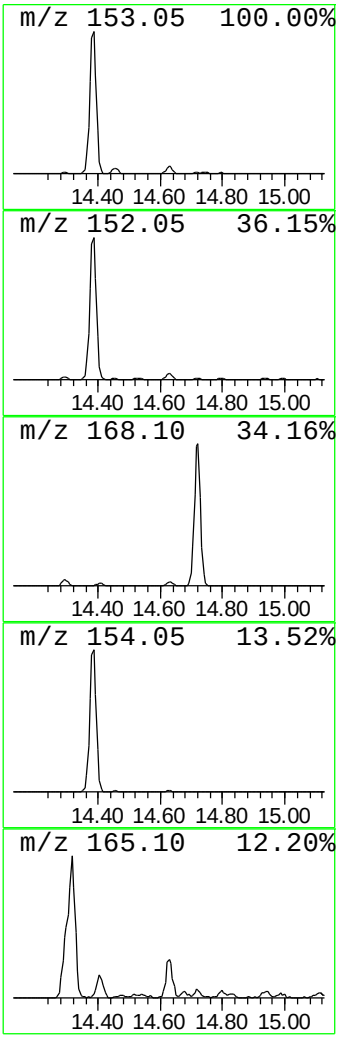
Peak Number 8 Benzene, [1-(2,4-cyclopenta... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.63	3.68 ng/ul	559195	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	56
2	Benzene, 2-chloro-1-methyl-4-(1-...	168	C10H13Cl	004395-79-3	53
3	2-Fluoro-4-methoxyacetophenone	168	C9H9FO2	074457-86-6	52
4	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	52
5	1-Fluoro-1-hex-1-ynyl-2,2-dimeth...	168	C11H17F	1000300-49-2	43





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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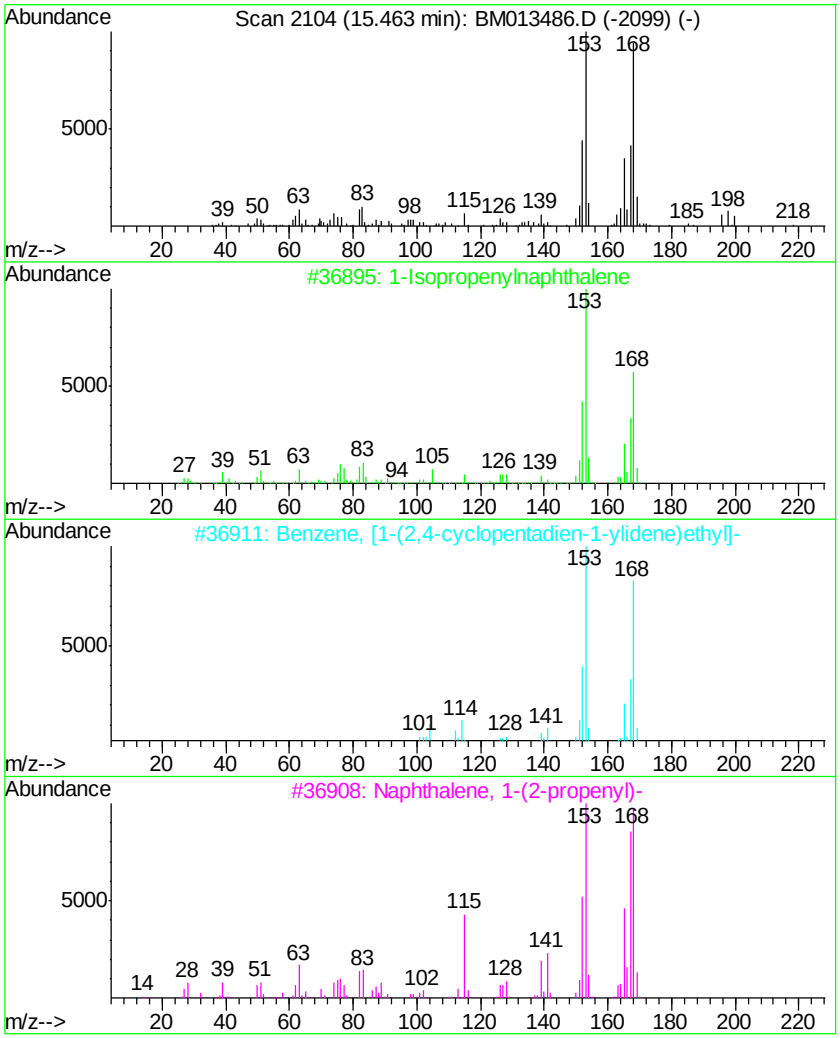
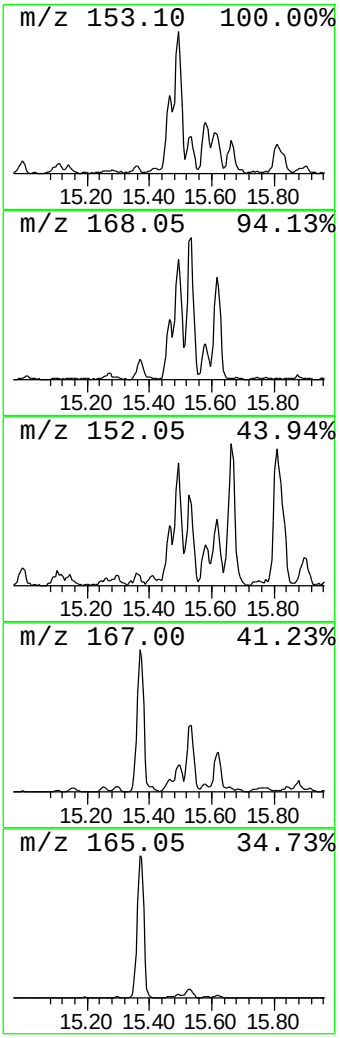
Peak Number 9 1-Isopropenylnaphthalene Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	2.82 ng/ul	427651	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	94
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	87
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	68
4	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	50
5	3-Hydroxy-4-methoxybenzoic acid	168	C8H8O4	000645-08-9	47





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Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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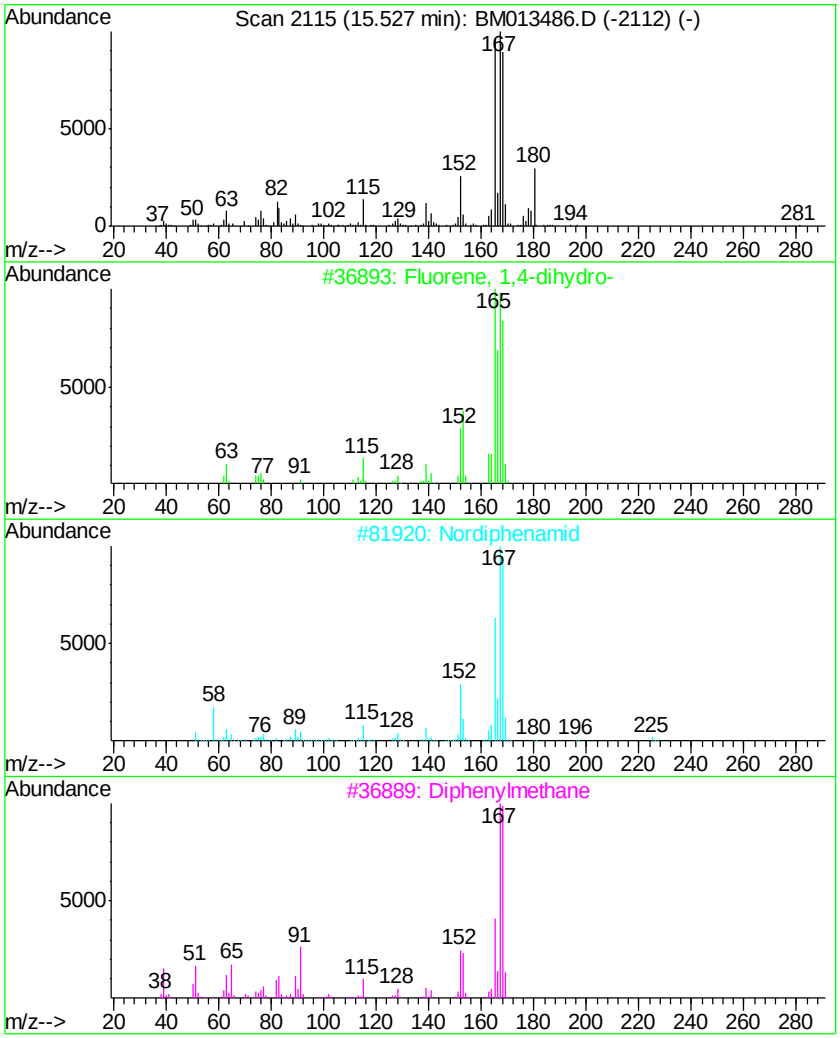
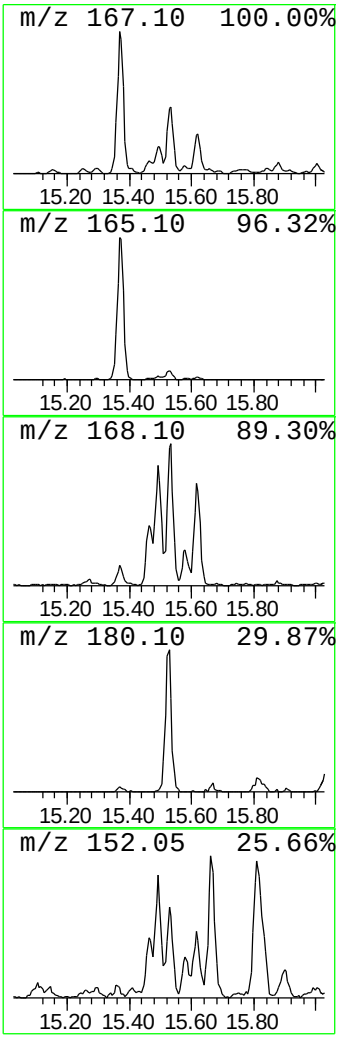
Peak Number 11 Fluorene, 1,4-dihydro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	6.82 ng/ul	1035390	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	78
2	Nordiphenamid	225	C15H15NO	000954-21-2	64
3	Diphenylmethane	168	C13H12	000101-81-5	64
4	Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	60
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	53





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Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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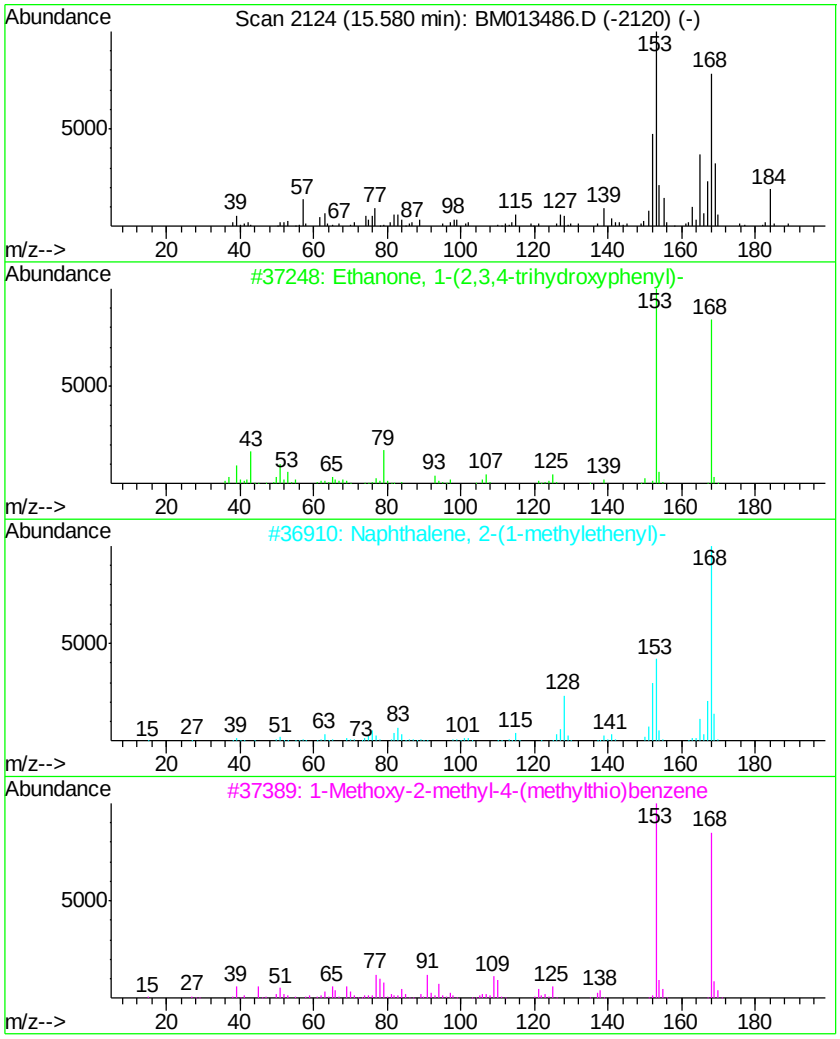
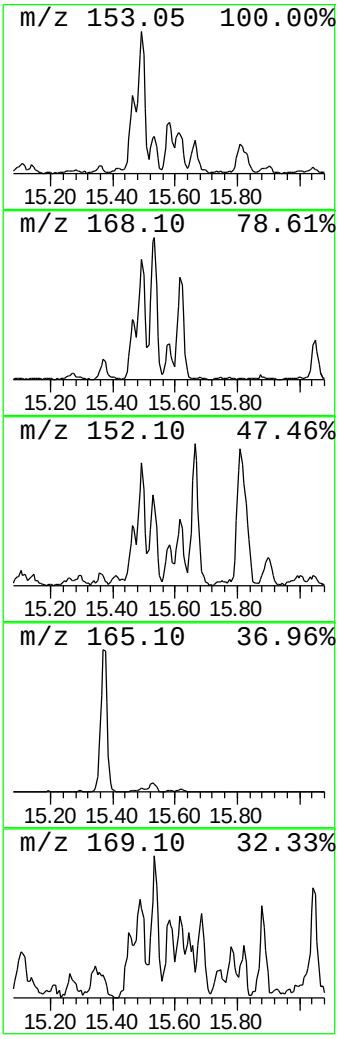
Peak Number 12 unknown-01 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.58	2.48 ng/ul	376413	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(2,3,4-trihydroxyphe...	168	C8H8O4	000528-21-2	38
2	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	38
3	1-Methoxy-2-methyl-4-(methylthio...	168	C9H12OS	050390-78-8	37
4	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	35
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	30





Library Search Compound Report

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Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

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Quant Title : SVOA CALIBRATION

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

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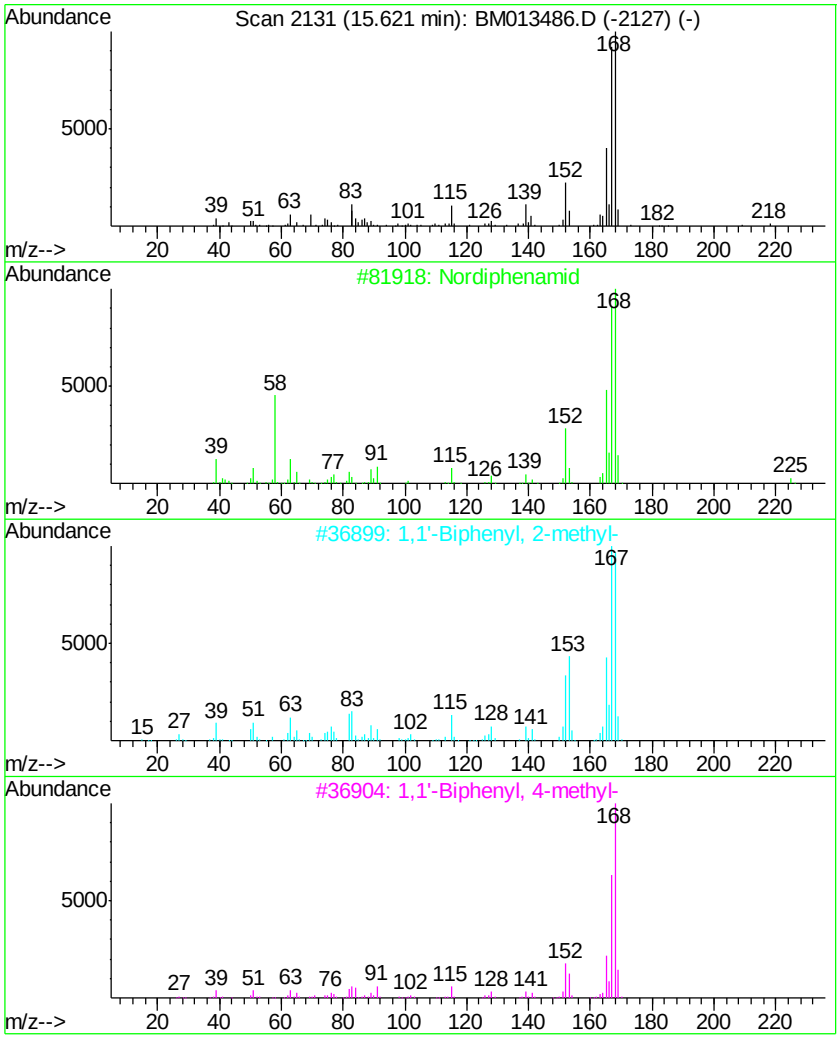
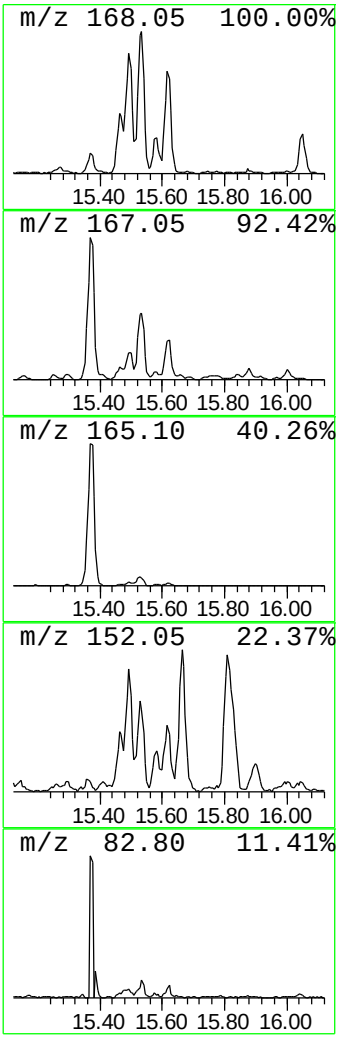
Peak Number 13 Nordiphenamid Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.62	3.77 ng/ul	571784	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nordiphenamid	225	C15H15NO	000954-21-2	91
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	87
3	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	83
4	Diphenylmethane	168	C13H12	000101-81-5	83
5	Diphenylmethane	168	C13H12	000101-81-5	83





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Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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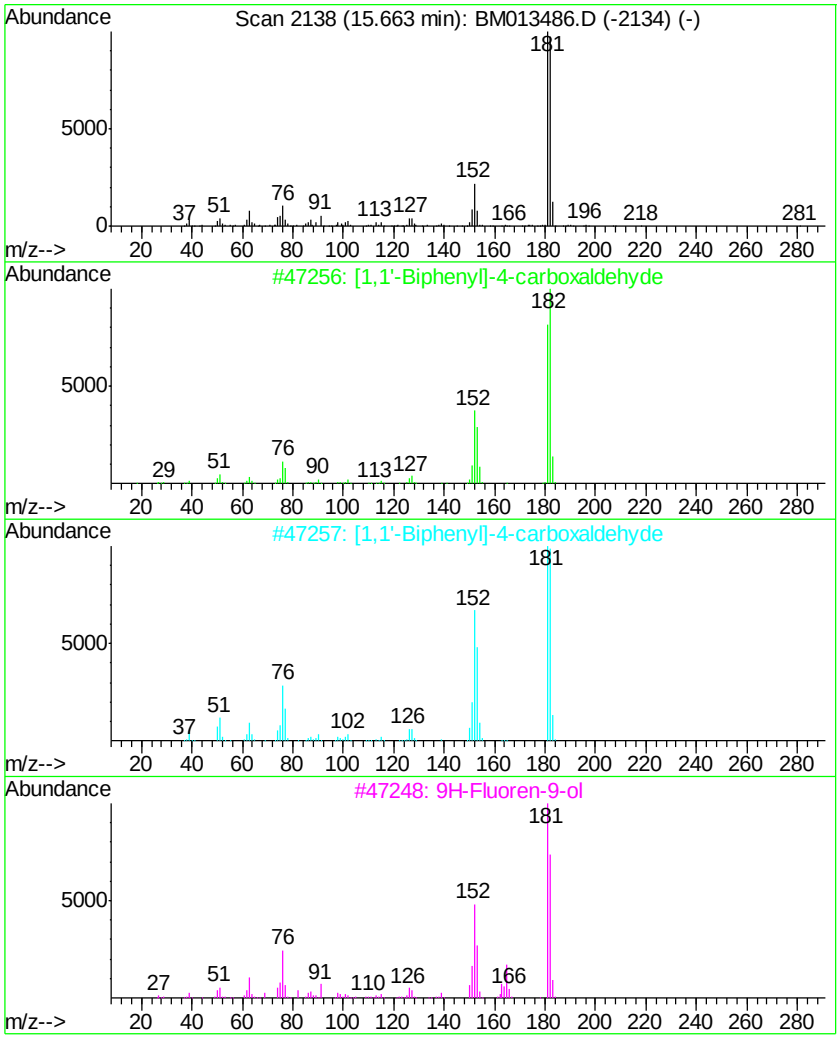
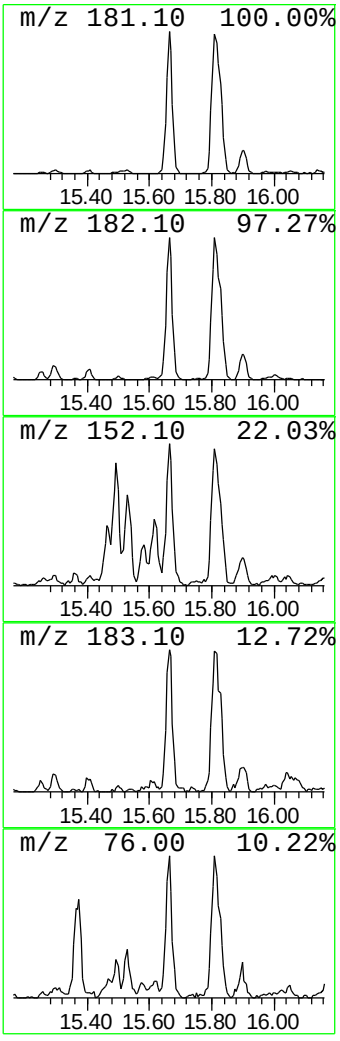
Peak Number 14 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.66	8.55 ng/ul	1297040	Acenaphthene-d10	14.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





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Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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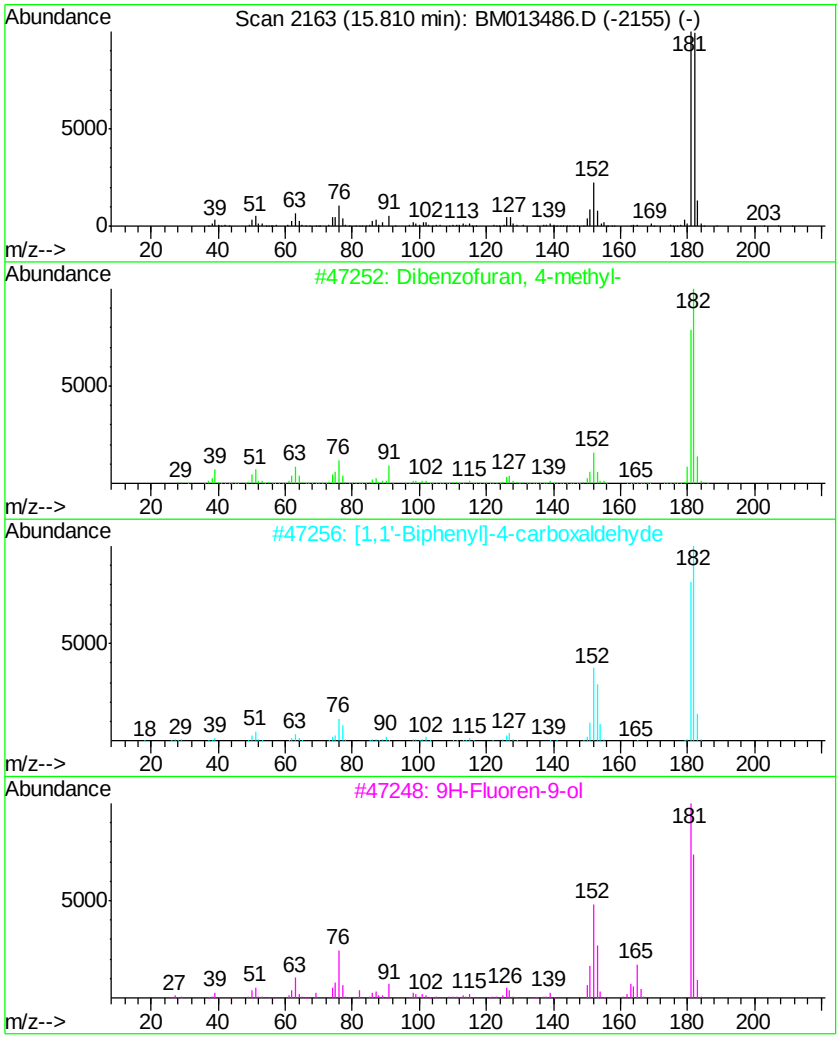
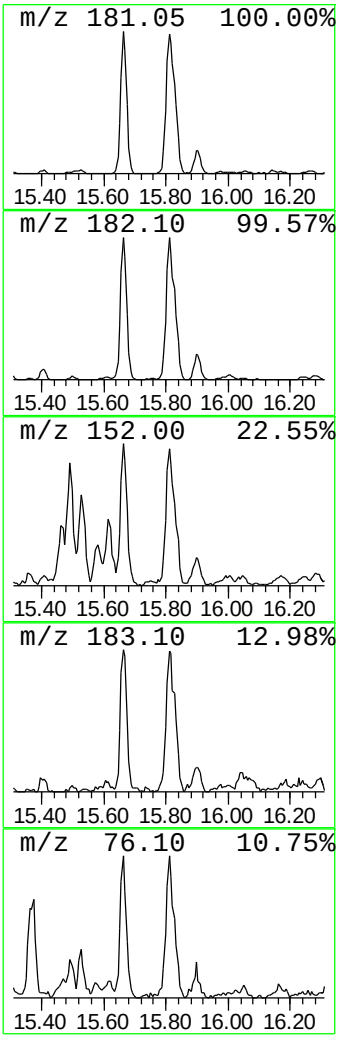
Peak Number 15 Dibenzofuran, 4-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	11.38 ng/ul	1729500	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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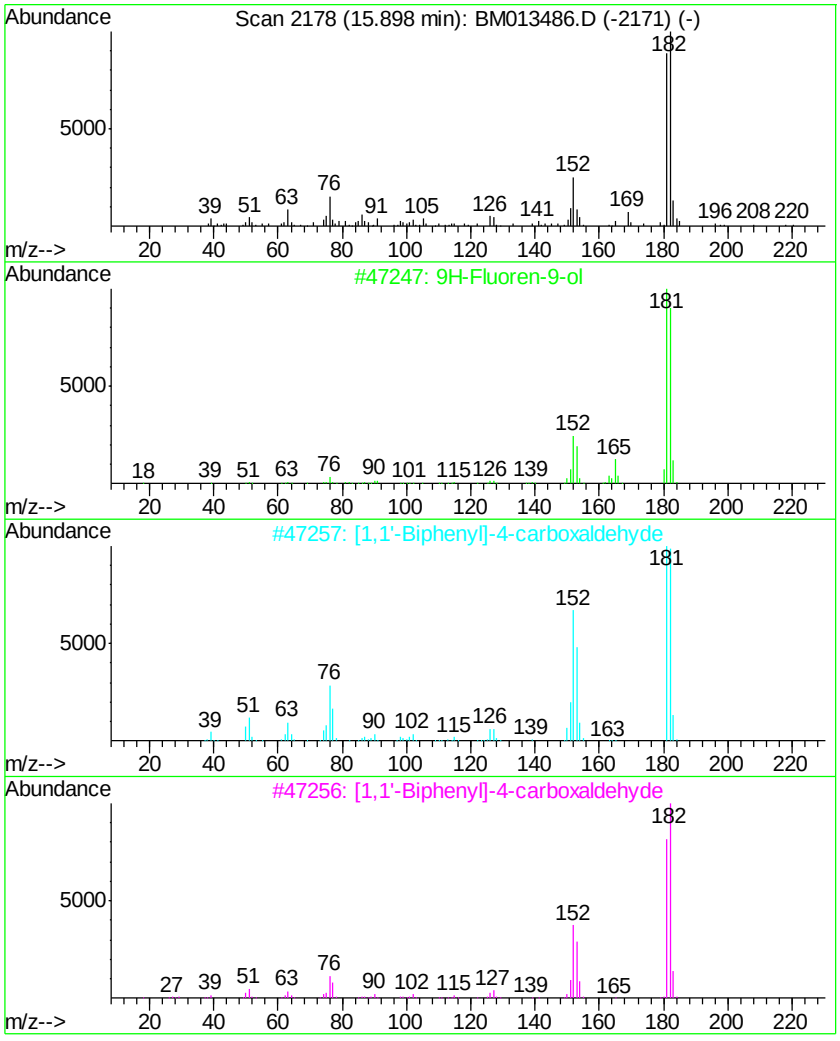
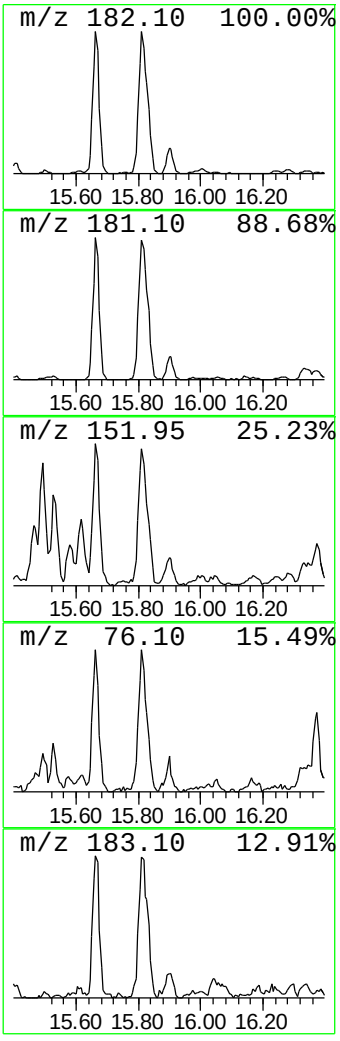
Peak Number 16 9H-Fluoren-9-ol Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	2.73 ng/ul	415178	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	80
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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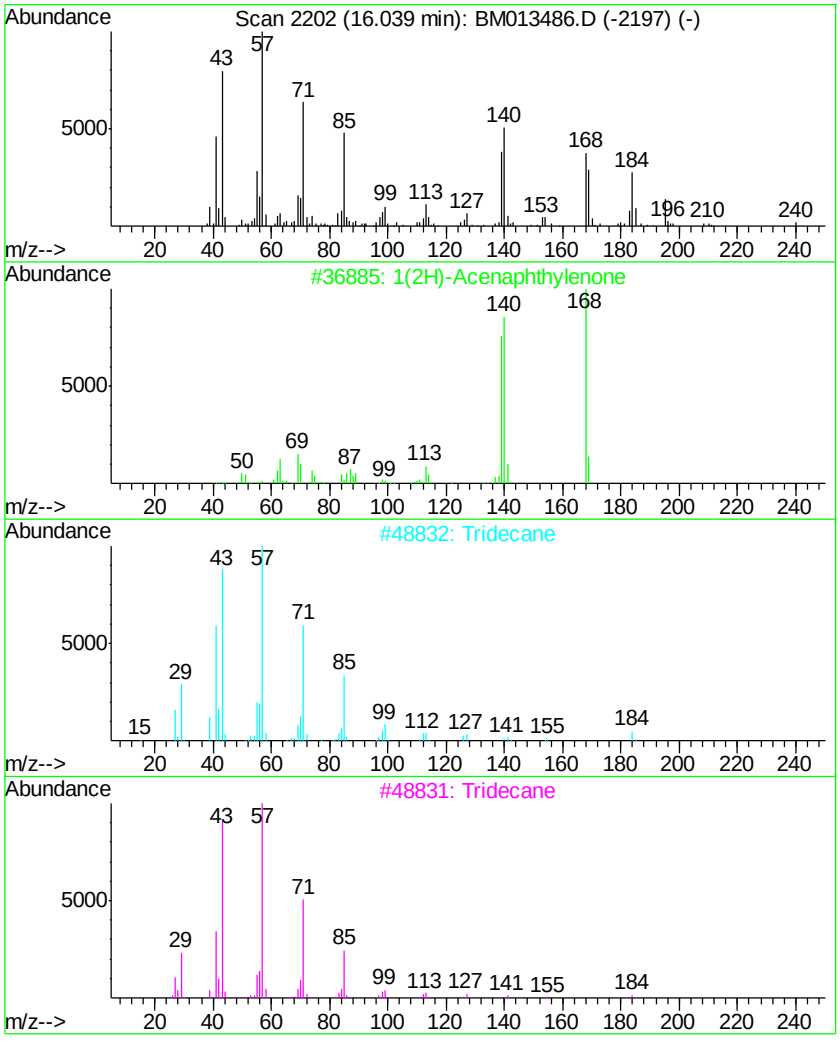
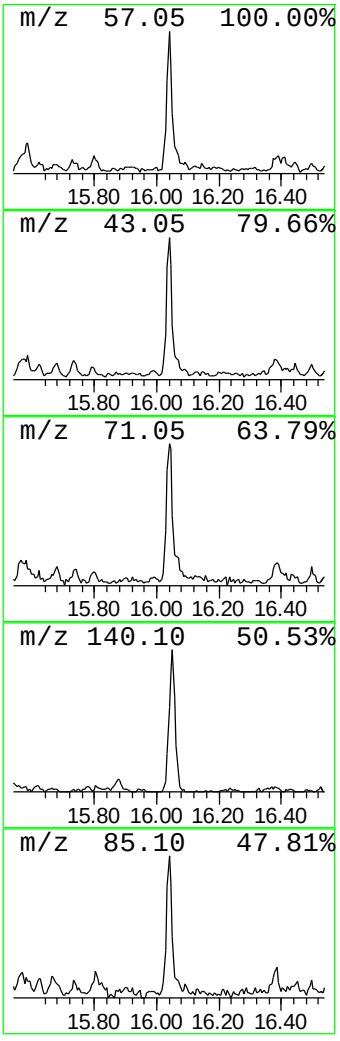
Peak Number 17 1(2H)-Acenaphthylenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	4.76 ng/ul	722863	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	50
2	Tridecane	184	C13H28	000629-50-5	38
3	Tridecane	184	C13H28	000629-50-5	30
4	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	25
5	2,4,6-Trihydroxytoluene	140	C7H8O3	000088-03-9	22





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Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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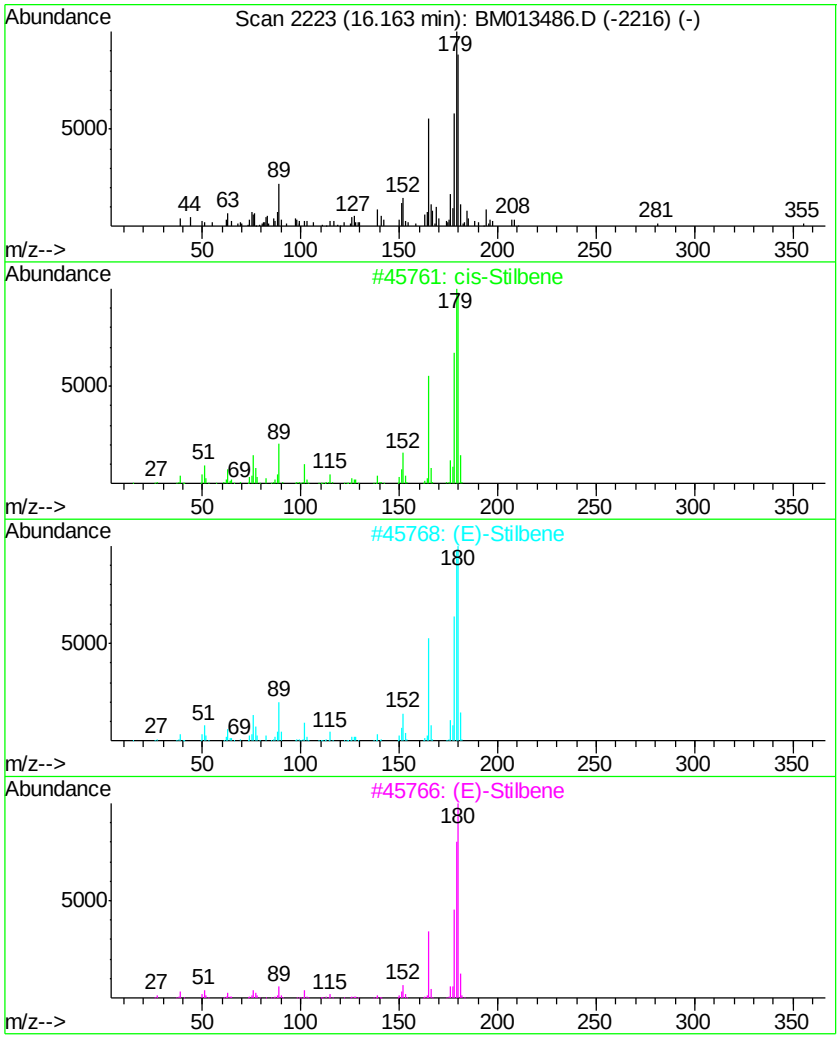
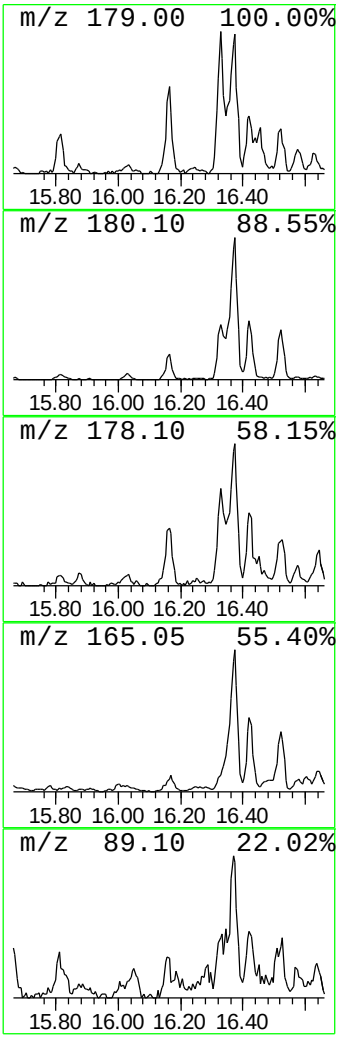
Peak Number 18 cis-Stilbene Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.16	2.18 ng/ul	331577	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Stilbene	180	C14H12	000645-49-8	89
2	(E)-Stilbene	180	C14H12	000103-30-0	89
3	(E)-Stilbene	180	C14H12	000103-30-0	89
4	(E)-Stilbene	180	C14H12	000103-30-0	89
5	cis-Stilbene	180	C14H12	000645-49-8	89





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Operator : SJ/JU
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Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

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Quant Title : SVOA CALIBRATION

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

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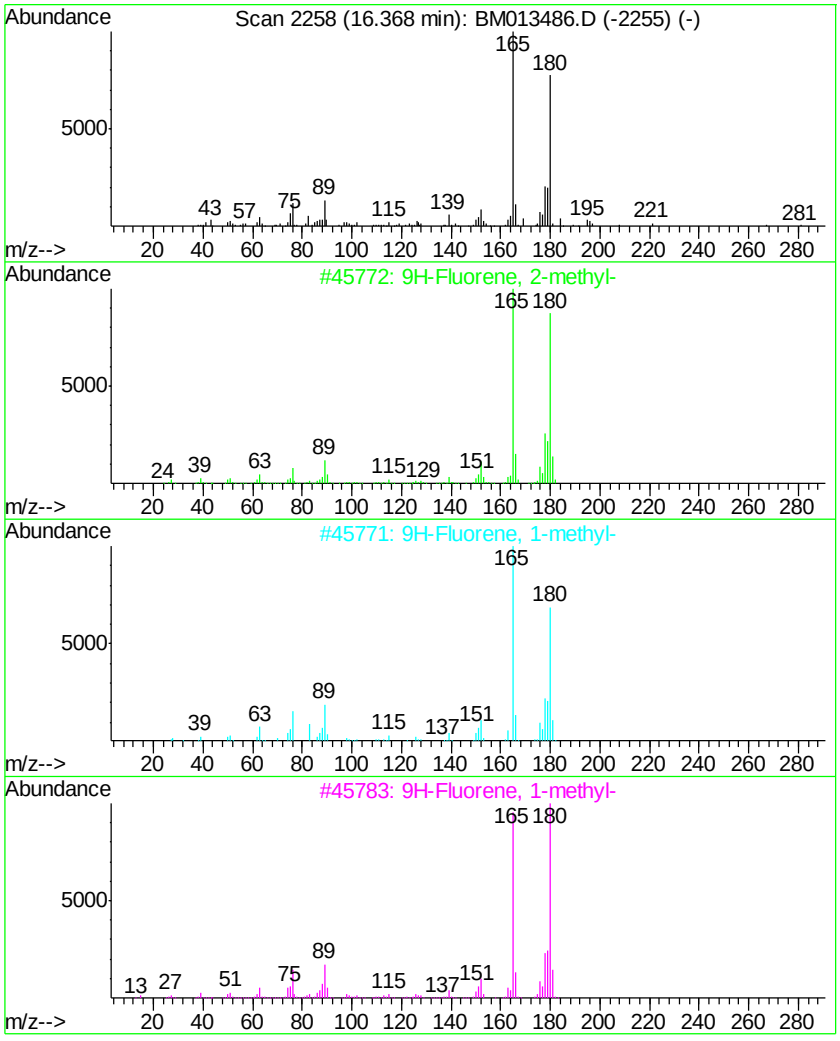
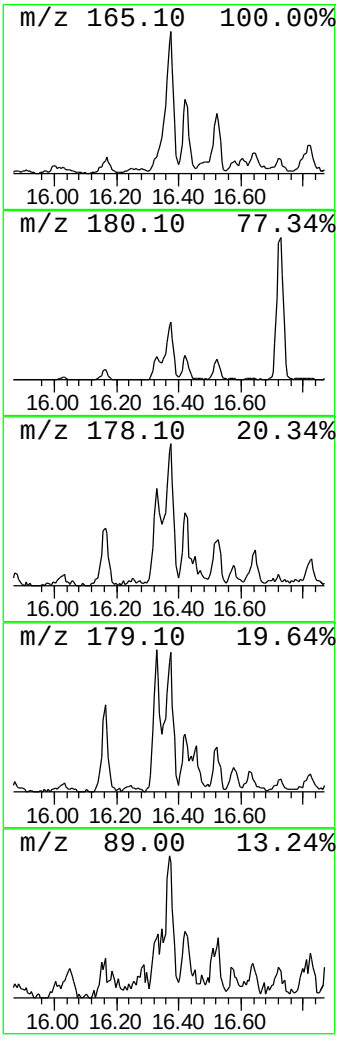
Peak Number 19 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	5.20 ng/ul	790223	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	87
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	83
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81





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Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

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Quant Title : SVOA CALIBRATION

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

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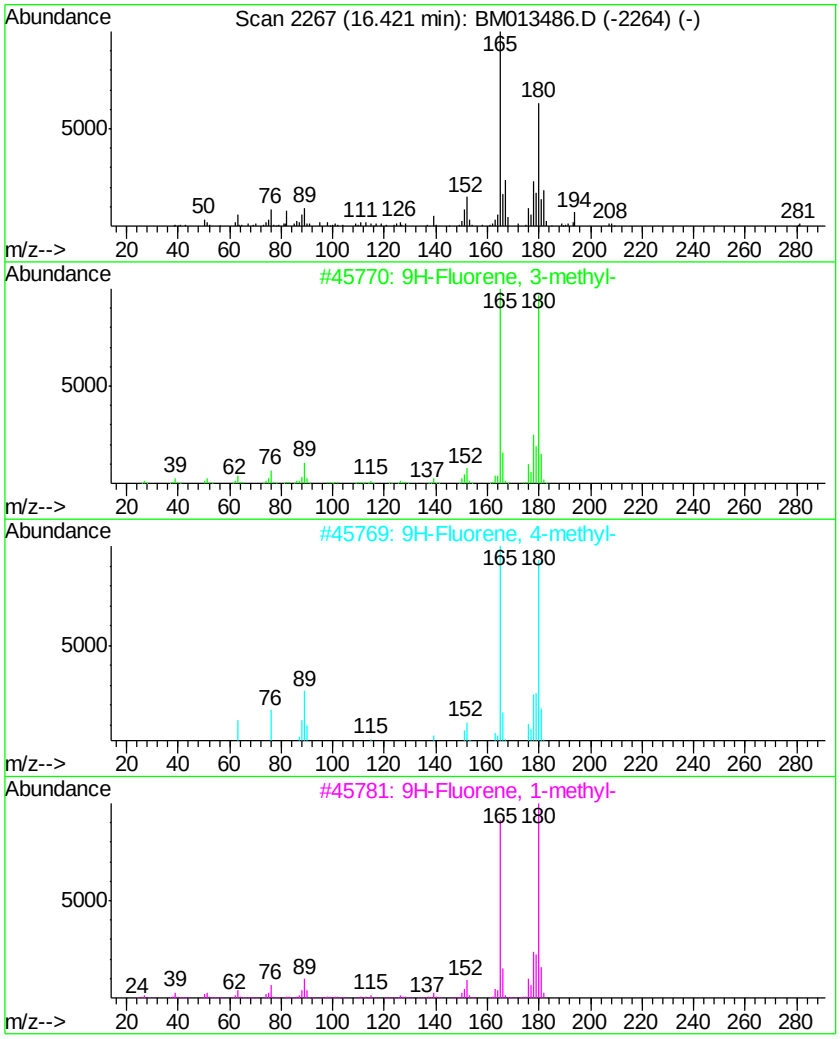
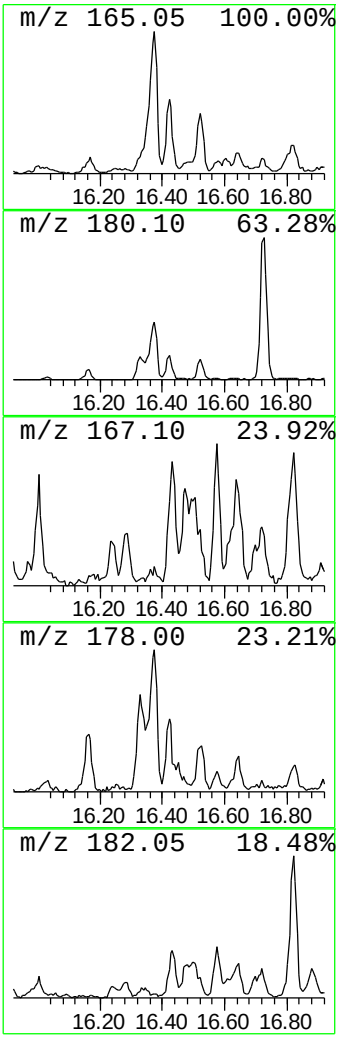
Peak Number 20 9H-Fluorene, 3-methyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.42	2.19 ng/ul	332949	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
2	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	76
5	3-Buten-2-one, 4-(4-chlorophenyl)-	180	C10H9ClO	003160-40-5	74





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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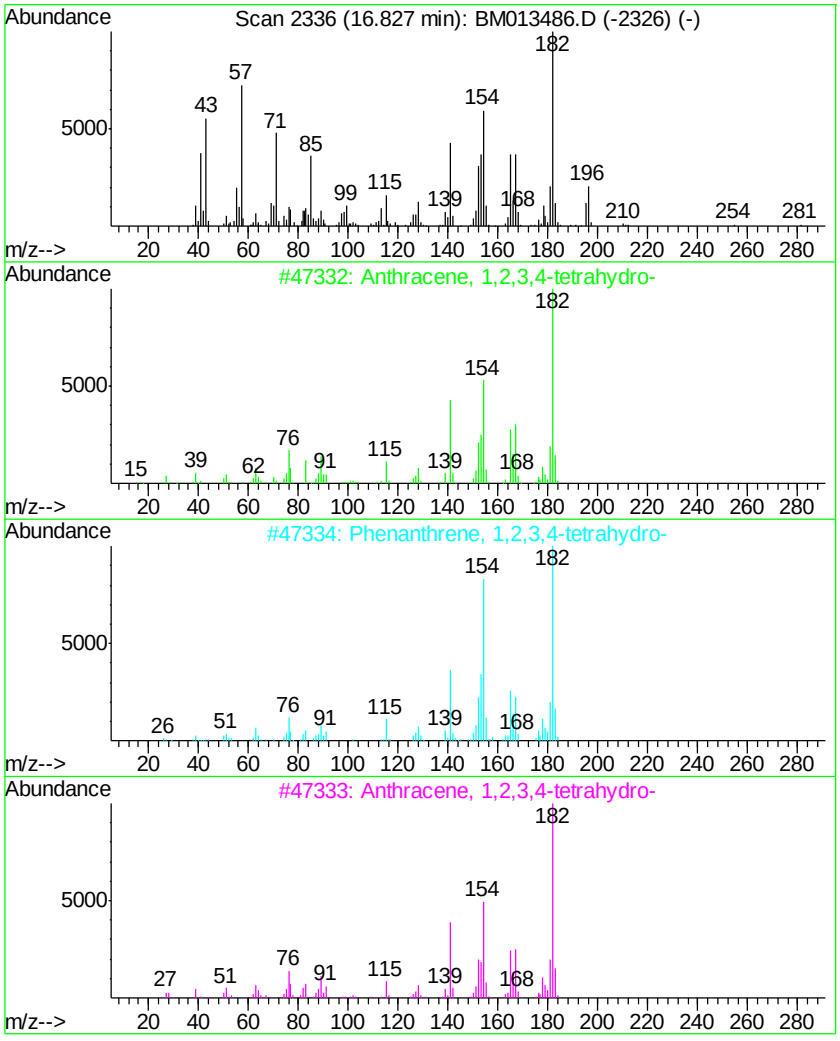
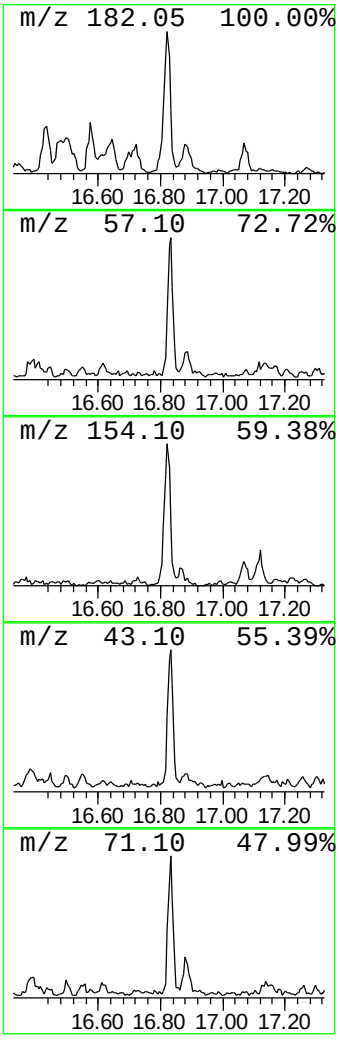
Peak Number 22 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	7.53 ng/ul	1144020	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	94
2	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	86
3	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	81
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	70
5	2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	45





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Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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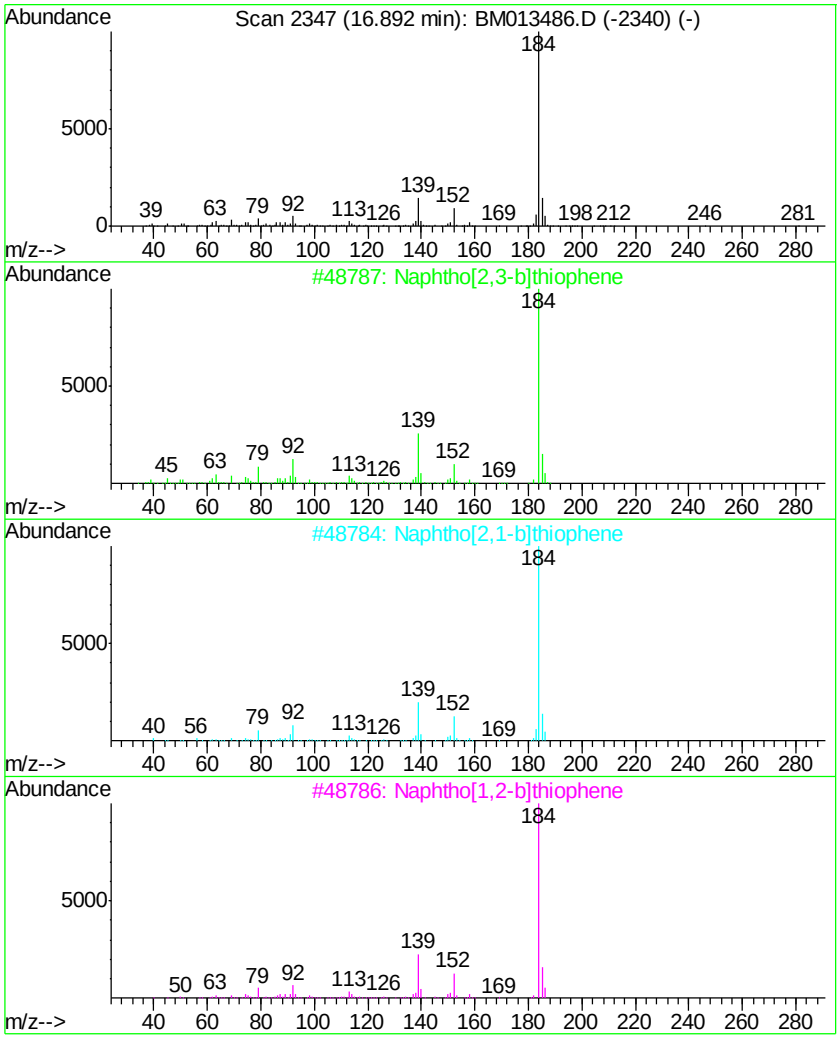
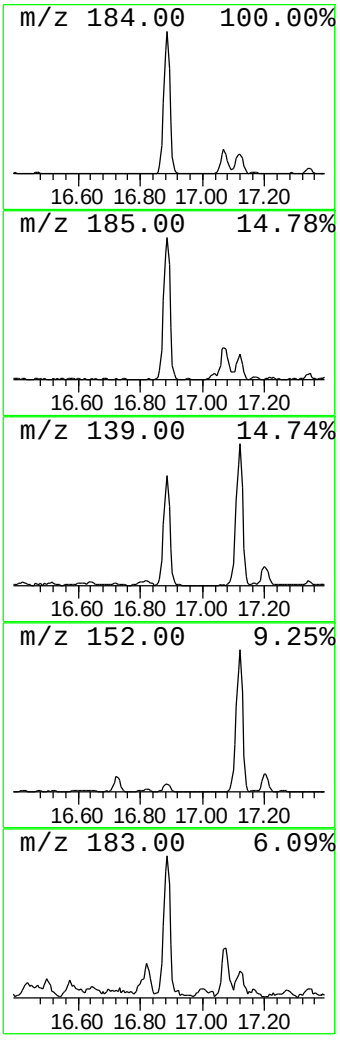
Peak Number 23 Naphtho[2,3-b]thiophene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	15.09 ng/ul	2292940	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Dibenzothiophene	184	C12H8S	000132-65-0	94





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Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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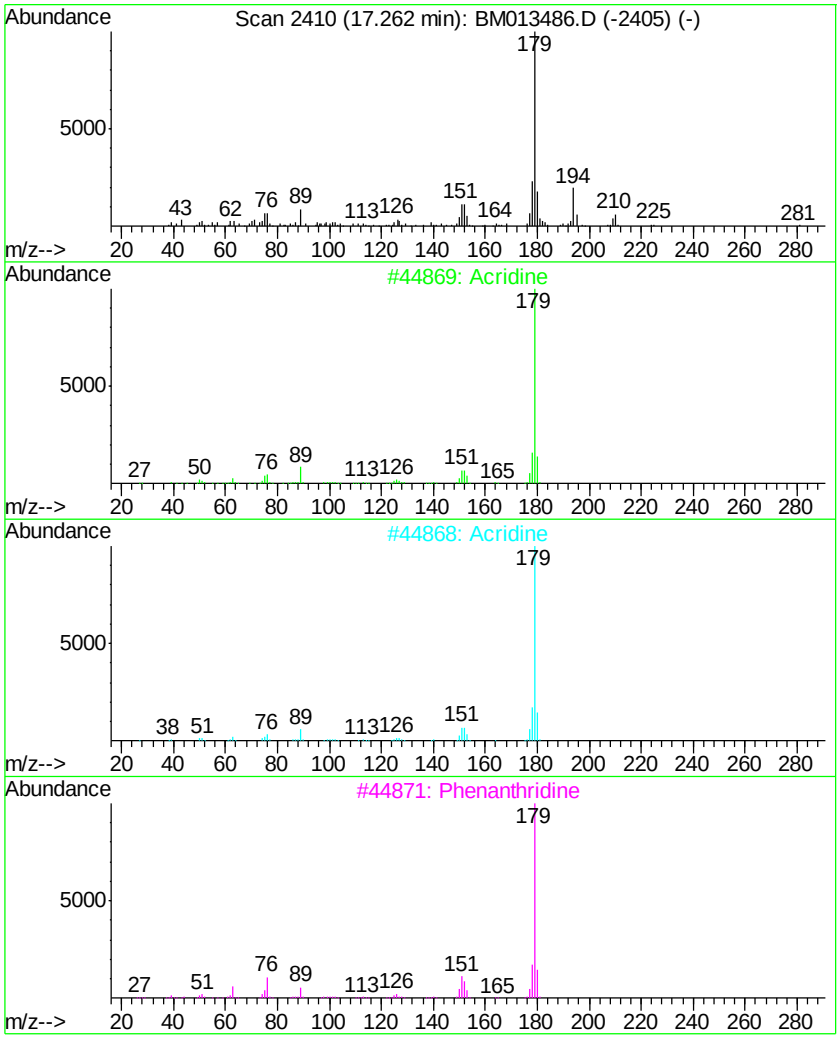
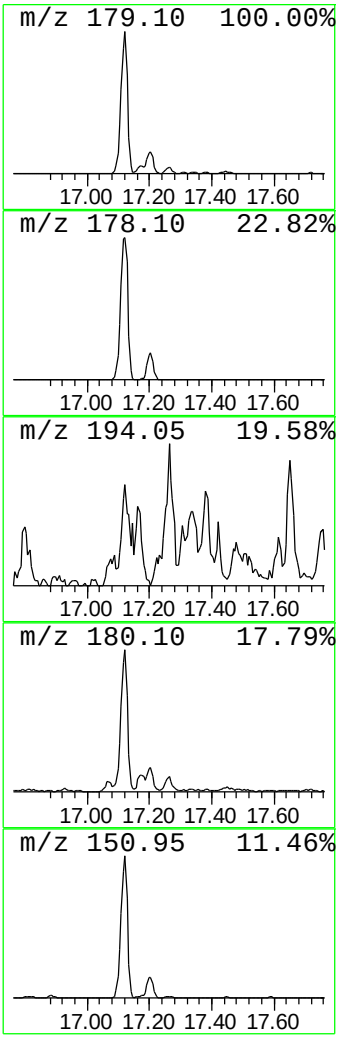
Peak Number 24 Acridine Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	2.25 ng/ul	341327	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	95
2	Acridine	179	C13H9N	000260-94-6	94
3	Phenanthridine	179	C13H9N	000229-87-8	89
4	Benzo[f]quinoline	179	C13H9N	000085-02-9	89
5	p-Phenylbenzonitrile	179	C13H9N	002920-38-9	89





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Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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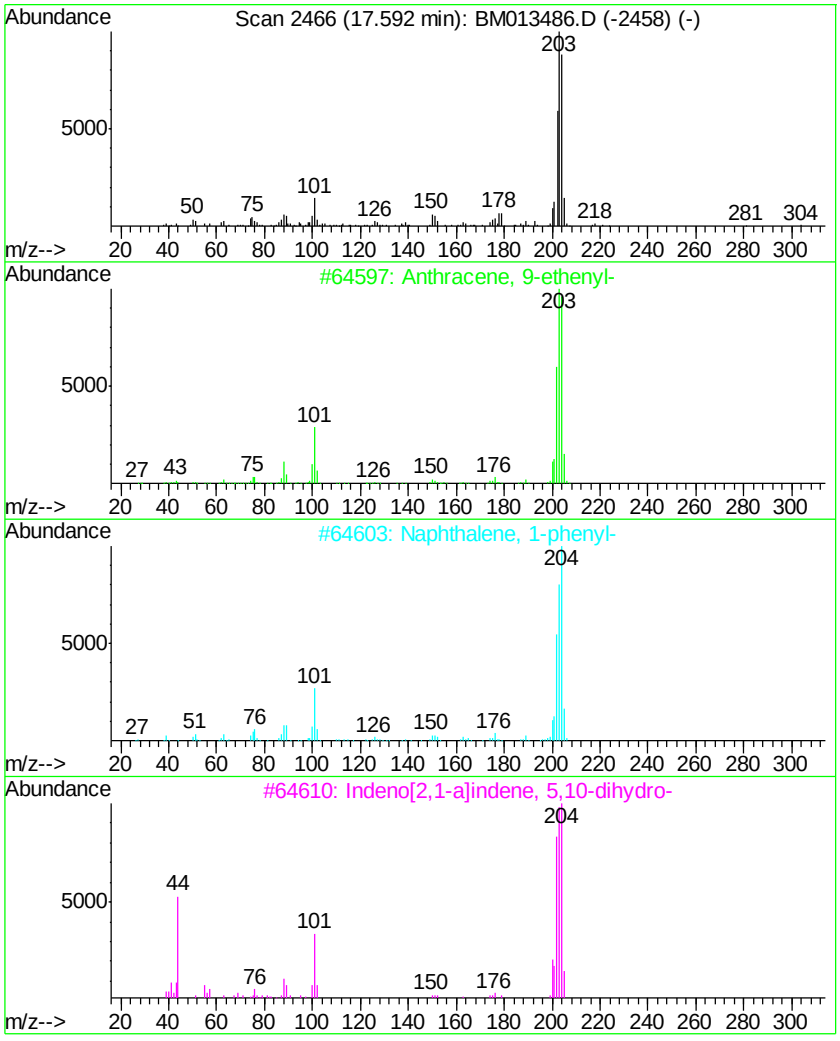
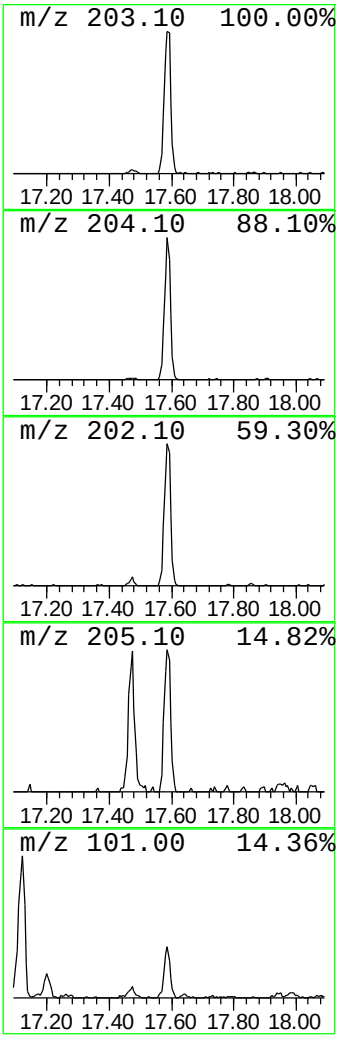
Peak Number 25 Anthracene, 9-ethenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.59	4.48 ng/ul	681414	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	93
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	89
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	89
4	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	86





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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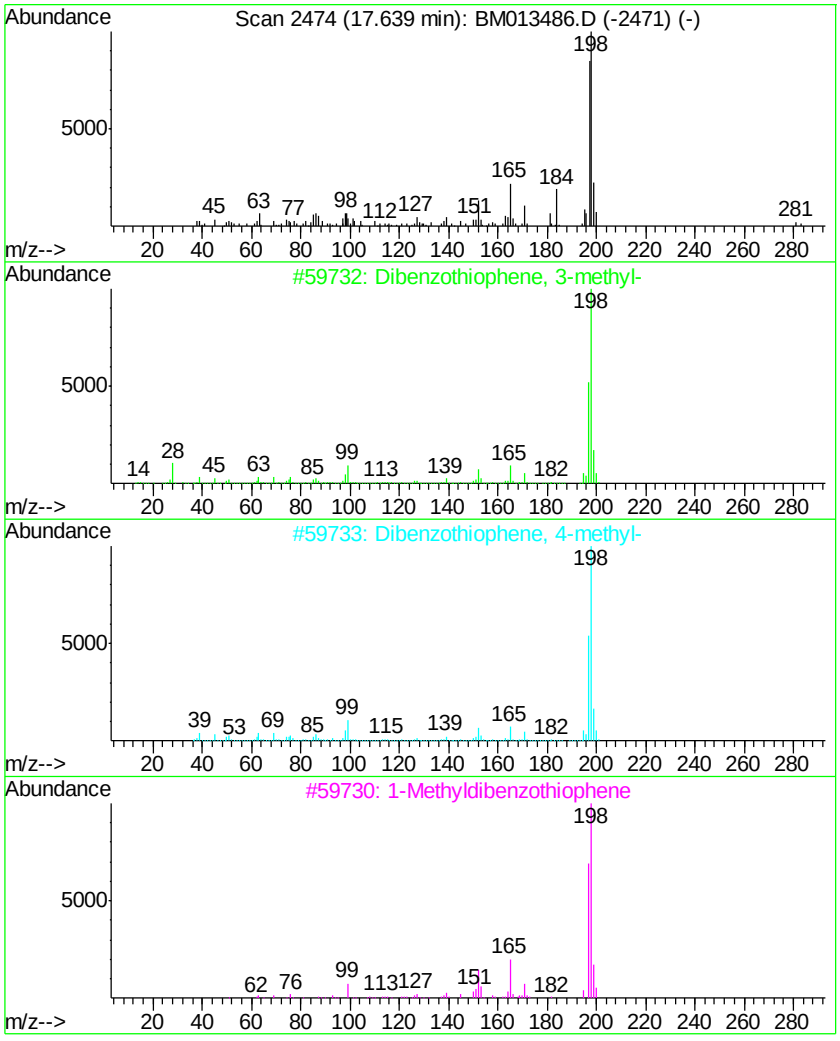
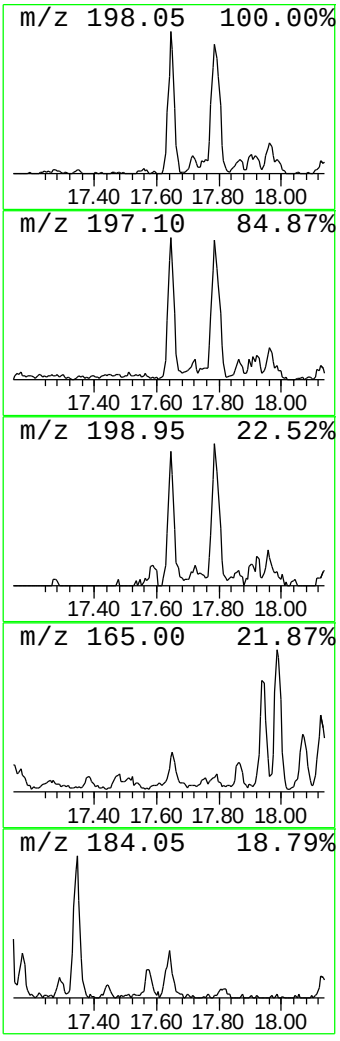
Peak Number 26 Dibenzothiophene, 3-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.64	2.73 ng/ul	415227	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	87
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	81
5	Thioxanthene	198	C13H10S	000261-31-4	70





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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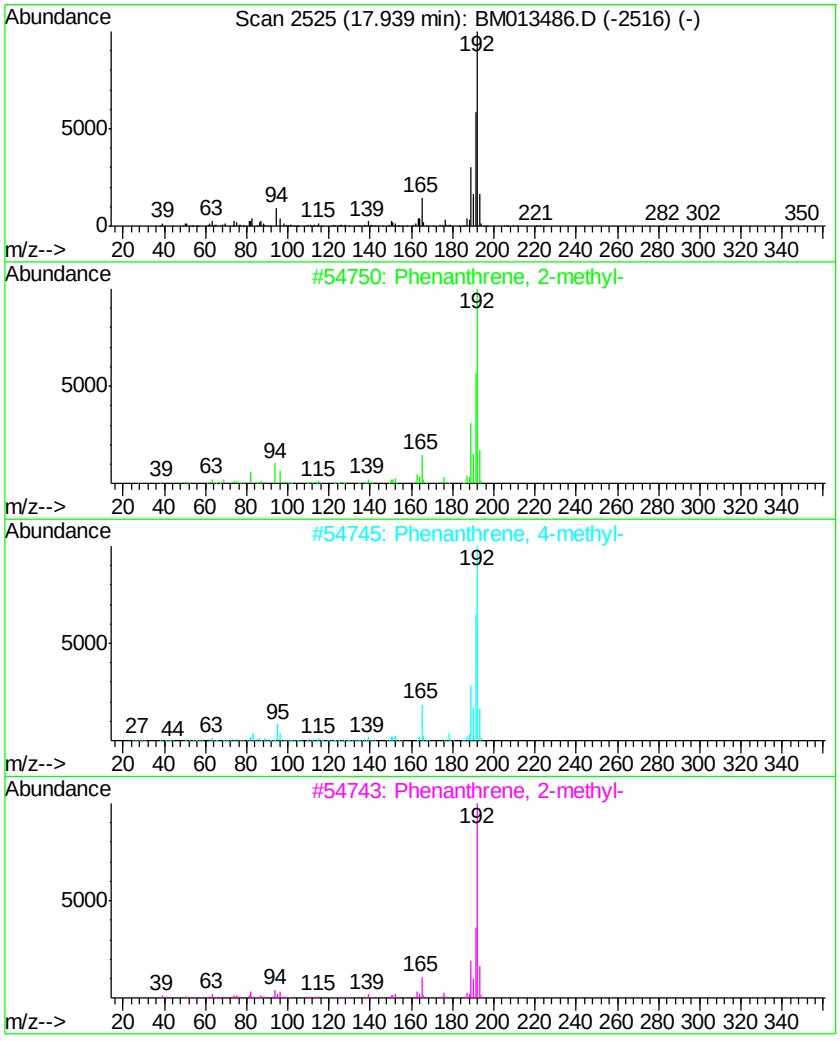
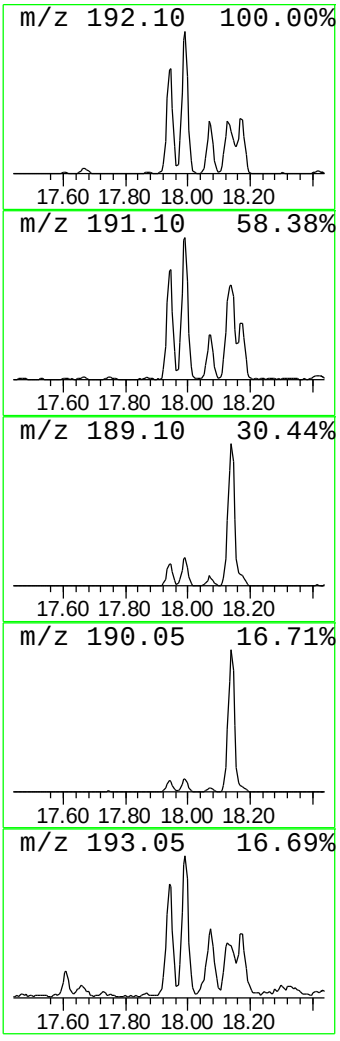
Peak Number 27 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	10.86 ng/ul	1649770	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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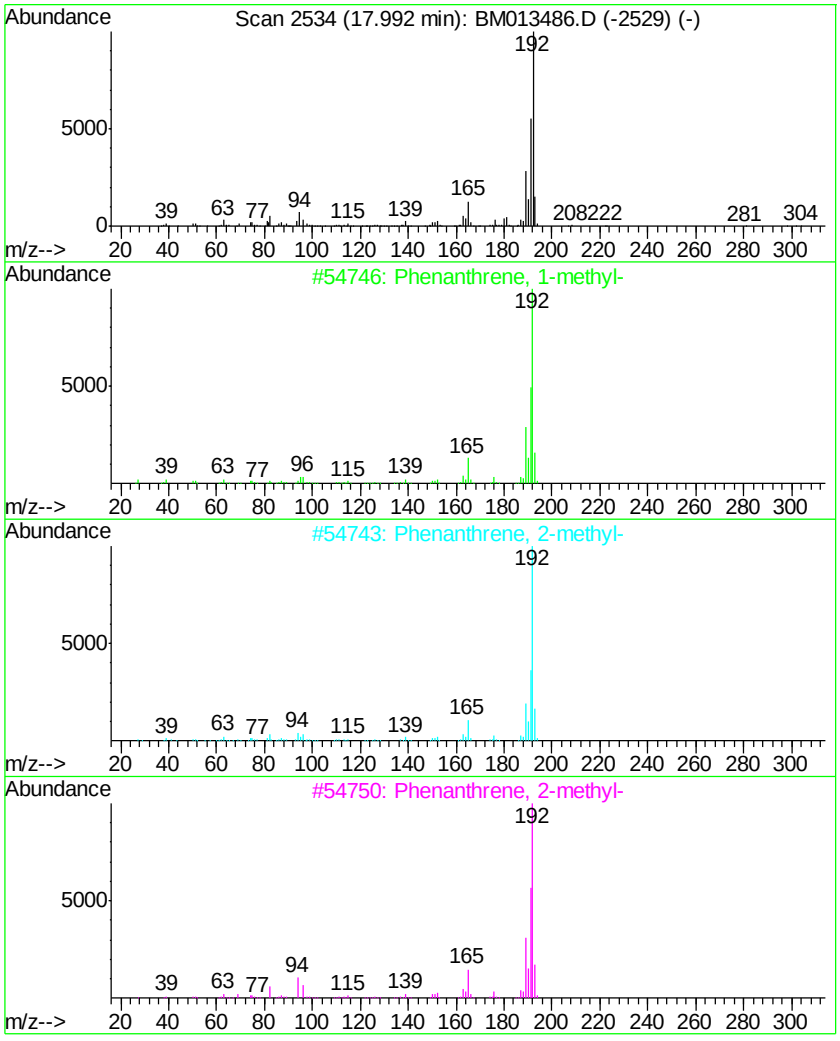
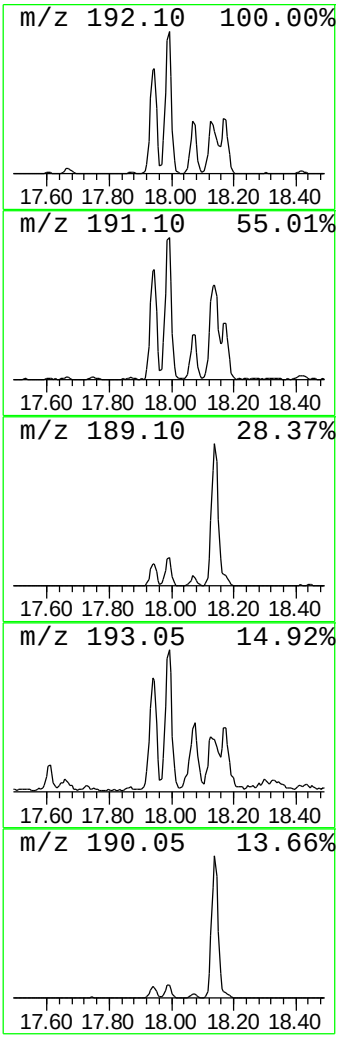
Peak Number 28 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	14.31 ng/ul	2174960	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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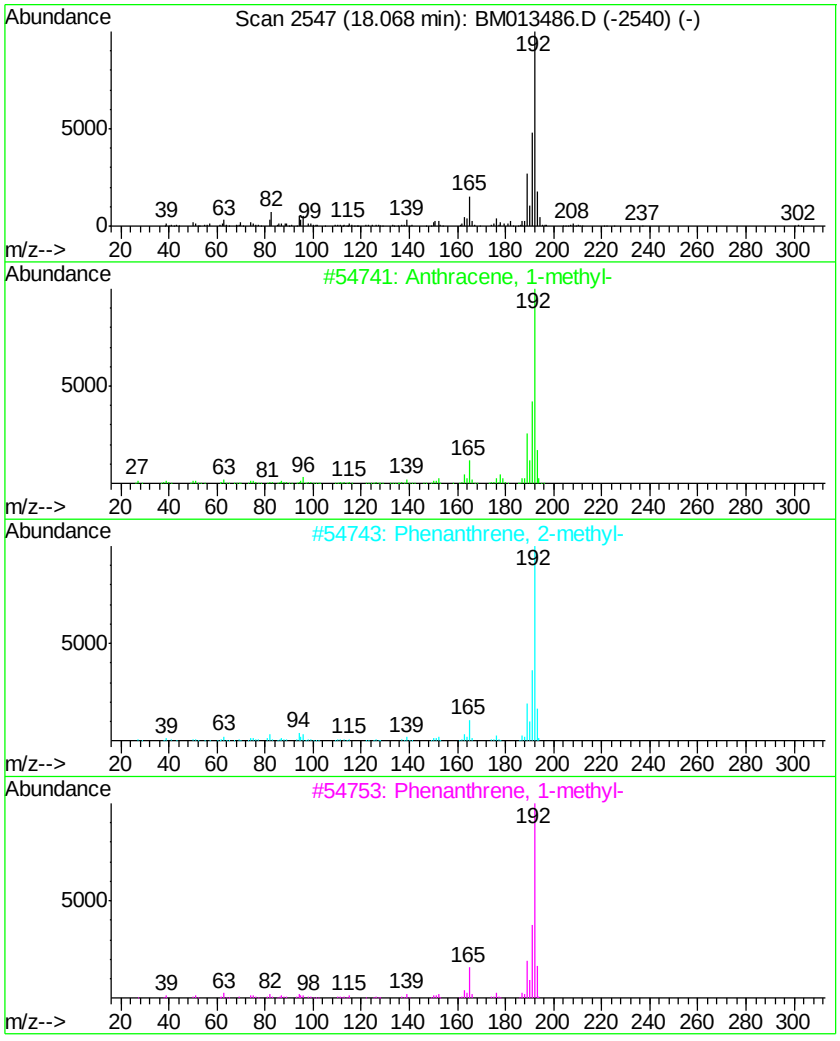
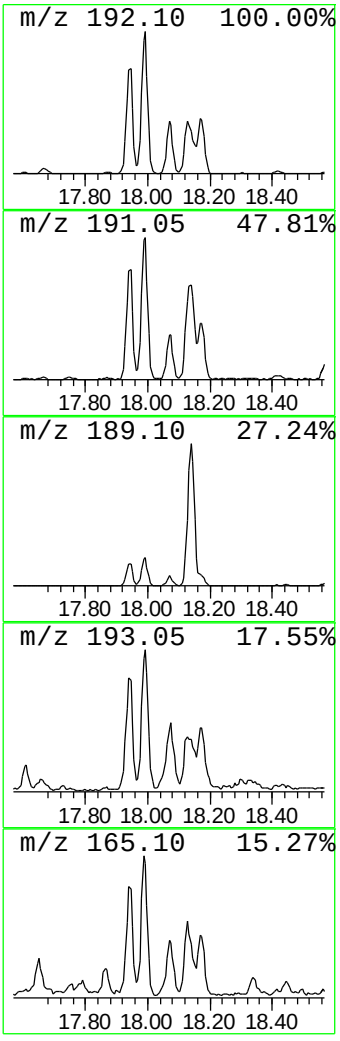
Peak Number 29 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	5.62 ng/ul	854582	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96





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Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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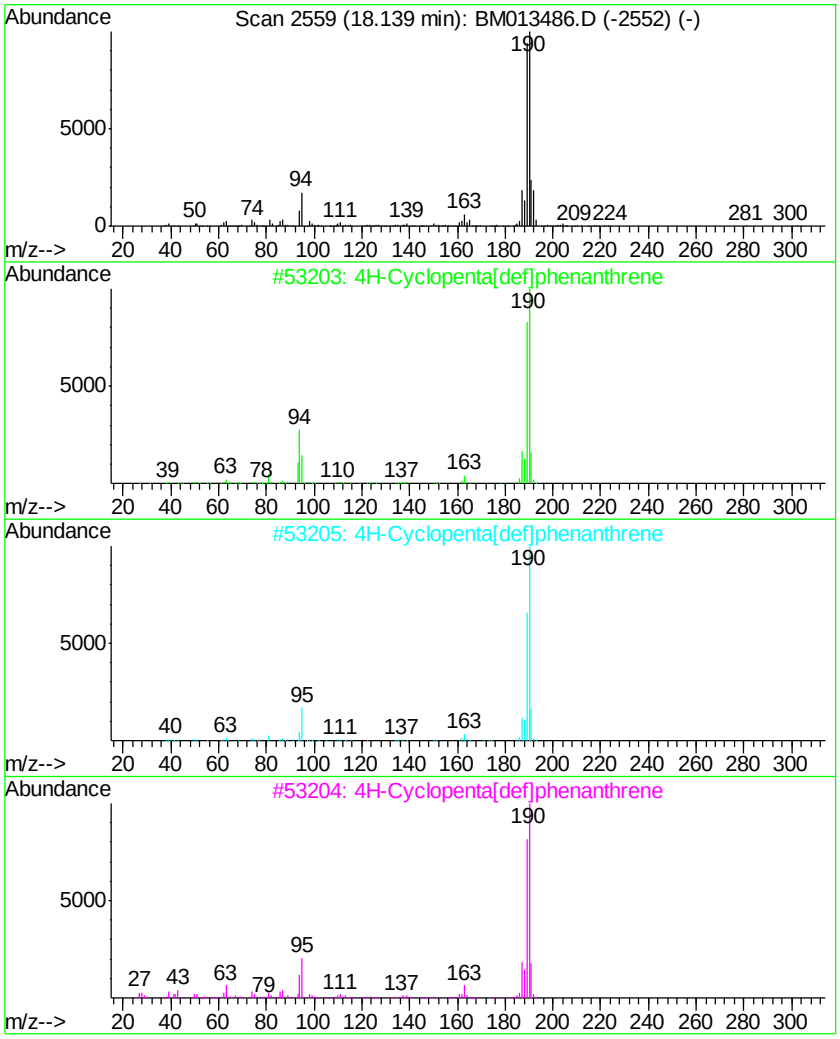
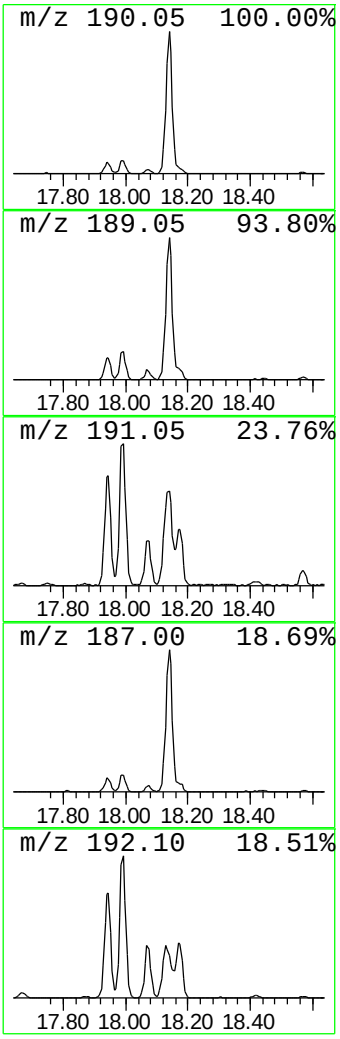
Peak Number 30 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	27.67 ng/ul	4204920	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	53
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	50





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Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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

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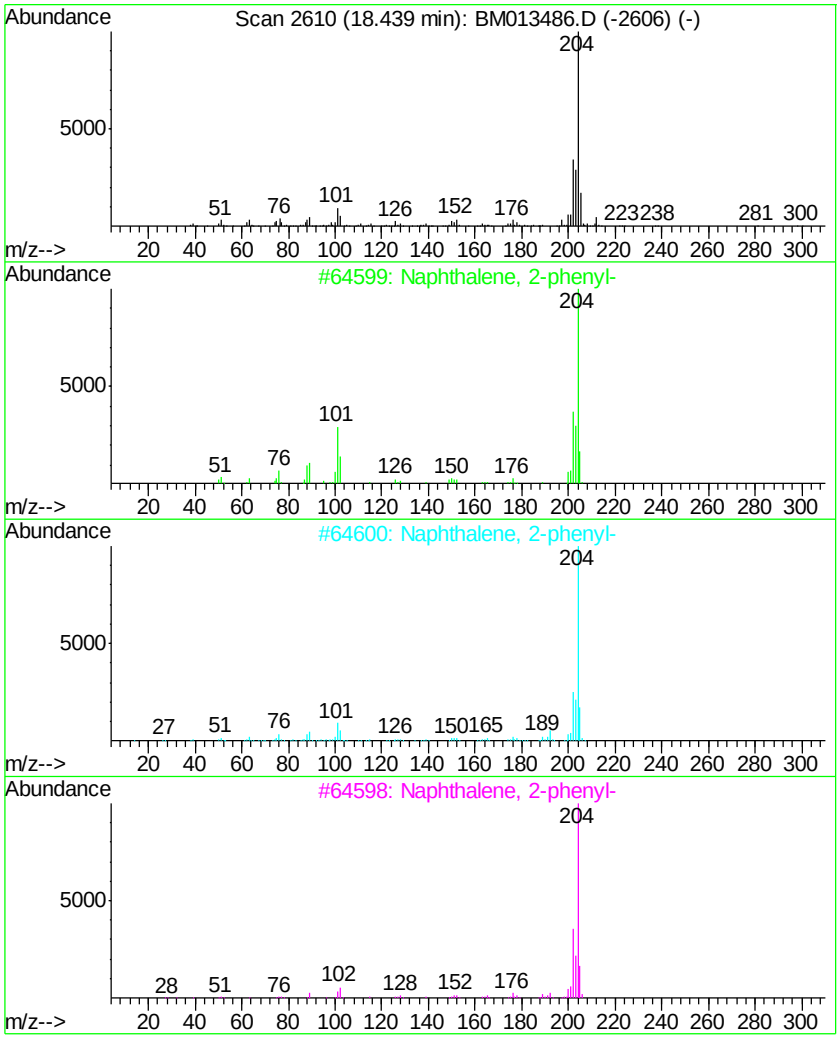
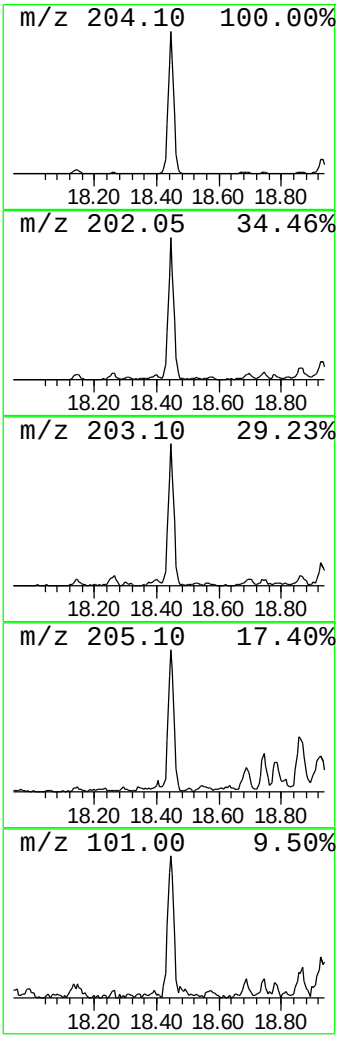
Peak Number 32 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	7.24 ng/ul	1099950	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	72
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM121517\
Data File : BM013486.D
Acq On : 16 Dec 2017 20:44
Operator : SJ/JU
Sample : I6776-06DL 30X
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F9A58DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA 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
Naphthalene, 2-et...	13.34	4.9	ng/ul	745872	3	14.32	3035440	20.0
Naphthalene, 2,7-...	13.47	5.0	ng/ul	752728	3	14.32	3035440	20.0
Naphthalene, 2,3-...	13.63	8.3	ng/ul	1259130	3	14.32	3035440	20.0
Naphthalene, 1,6-...	13.69	3.6	ng/ul	540423	3	14.32	3035440	20.0
Naphthalene, 2-(1...	14.53	2.6	ng/ul	391606	3	14.32	3035440	20.0
Benzene, [1-(2,4-...	14.63	3.7	ng/ul	559195	3	14.32	3035440	20.0
1-Isopropenylnaph...	15.46	2.8	ng/ul	427651	3	14.32	3035440	20.0
Fluorene, 1,4-dih...	15.53	6.8	ng/ul	1035390	3	14.32	3035440	20.0
unknown-01	15.58	2.5	ng/ul	376413	3	14.32	3035440	20.0
Nordiphenamid	15.62	3.8	ng/ul	571784	3	14.32	3035440	20.0
[1,1'-Biphenyl]-4...	15.66	8.6	ng/ul	1297040	3	14.32	3035440	20.0
Dibenzofuran, 4-m...	15.81	11.4	ng/ul	1729500	4	17.07	3039460	20.0
9H-Fluoren-9-ol	15.90	2.7	ng/ul	415178	4	17.07	3039460	20.0
1(2H)-Acenaphthyl...	16.04	4.8	ng/ul	722863	4	17.07	3039460	20.0
cis-Stilbene	16.16	2.2	ng/ul	331577	4	17.07	3039460	20.0
9H-Fluorene, 2-me...	16.37	5.2	ng/ul	790223	4	17.07	3039460	20.0
9H-Fluorene, 3-me...	16.42	2.2	ng/ul	332949	4	17.07	3039460	20.0
Anthracene, 1,2,3...	16.83	7.5	ng/ul	1144020	4	17.07	3039460	20.0
Naphtho[2,3-b]thi...	16.89	15.1	ng/ul	2292940	4	17.07	3039460	20.0
Acridine	17.26	2.3	ng/ul	341327	4	17.07	3039460	20.0
Anthracene, 9-eth...	17.59	4.5	ng/ul	681414	4	17.07	3039460	20.0
Dibenzothiophene,...	17.64	2.7	ng/ul	415227	4	17.07	3039460	20.0
Phenanthrene, 2-m...	17.94	10.9	ng/ul	1649770	4	17.07	3039460	20.0
Phenanthrene, 1-m...	17.99	14.3	ng/ul	2174960	4	17.07	3039460	20.0
Anthracene, 1-met...	18.07	5.6	ng/ul	854582	4	17.07	3039460	20.0
4H-Cyclopenta[def...	18.14	27.7	ng/ul	4204920	4	17.07	3039460	20.0
Naphthalene, 2-ph...	18.44	7.2	ng/ul	1099950	4	17.07	3039460	20.0