LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.345	395	401	412	rBV	1092969	1581343	56.66%	6.723%
2	6.934	664	671	689	rBV	981009	1623170	58.16%	6.901%
3	7.292	725	732	743	rBV	1071566	1710158	61.28%	7.271%
4	7.763	806	812	818	rBV	229952	369672	13.25%	1.572%
5	8.081	859	866	876	rBV	779684	1253139	44.90%	5.328%
6	8.928	1003	1010	1025	rBV	545218	982623	35.21%	4.178%
7	10.557	1280	1287	1293	rBV	239249	414066	14.84%	1.760%
8	11.616	1460	1467	1486	rBV	42028	140043	5.02%	0.595%
9	13.027	1699	1707	1720	rBV	1221940	1845158	66.11%	7.844%
10	13.868	1842	1850	1861	rBV	179858	263042	9.42%	1.118%
11	14.133	1887	1895	1901	rBV2	37739	56157	2.01%	0.239%
12	14.410	1936	1942	1950	rBV2	379962	569518	20.41%	2.421%
13	15.904	2188	2196	2215	rBV	1167579	1641883	58.83%	6.980%
14	17.162	2403	2410	2414	rBV	480302	725771	26.00%	3.086%
15	17.203	2414	2417	2427	rVB	131170	188872	6.77%	0.803%
16	17.298	2427	2433	2437	rBV	29326	45751	1.64%	0.195%
17	18.039	2553	2559	2563	rBV2	102152	169642	6.08%	0.721%
18	18.080	2563	2566	2573	rVB	61181	88920	3.19%	0.378%
19	18.221	2585	2590	2595	rBV3	60774	116156	4.16%	0.494%
20	18.262	2595	2597	2604	rVB	47527	62991	2.26%	0.268%
21	18.539	2638	2644	2648	rBV	44565	67506	2.42%	0.287%
22	18.586	2648	2652	2657	rVB3	38474	58543	2.10%	0.249%
23	18.950	2710	2714	2720	rBV5	59894	121605	4.36%	0.517%
24	19.098	2734	2739	2745	rBV3	48712	85863	3.08%	0.365%
25	19.221	2755	2760	2766	rVB	278667	374663	13.42%	1.593%
26	19.321	2773	2777	2781	rVB7	22550	31429	1.13%	0.134%
27	19.374	2781	2786	2790	rBV	57822	78399	2.81%	0.333%
28	19.421	2790	2794	2799	rVV4	22885	33384	1.20%	0.142%
29	19.486	2803	2805	2809	rVB2	25771	31884	1.14%	0.136%
30	19.586	2813	2822	2829	rVV	512984	736141	26.38%	3.130%
31	19.656	2829	2834	2840	rVB6	27603	44310	1.59%	0.188%
32	19.786	2851	2856	2867	rVB	2247064	2790925	100.00%	11.865%
33	19.909	2872	2877	2887	rVV5	51833	124795	4.47%	0.531%
34	20.044	2895	2900	2904	rBV7	58916	134421	4.82%	0.571%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	20.239	2929	2933	2937	rBV2	80365	104094	3.73%	0.443%
36	20.380	2953	2957	2960	rBV	84096	115511	4.14%	0.491%
37	20.421	2960	2964	2971	rVB	64834	97528	3.49%	0.415%
38	20.827	3030	3033	3039	rVB	56120	73745	2.64%	0.314%
39	21.044	3065	3070	3073	rBV2	197259	306721	10.99%	1.304%
40	21.344	3114	3121	3125	rBV2	897889	1518957	54.42%	6.458%
41	21.386	3125	3128	3133	rVB	263468	349921	12.54%	1.488%
42	21.556	3154	3157	3168	rVB2	98270	176662	6.33%	0.751%
43	22.944	3388	3393	3406	rVB2	189095	588303	21.08%	2.501%
44	23.433	3471	3476	3483	rBV	159737	303406	10.87%	1.290%
45	23.532	3488	3493	3499	rVB	183242	327421	11.73%	1.392%
46	23.633	3504	3510	3516	rBV	524434	997504	35.74%	4.241%

Sum of corrected areas: 23521716

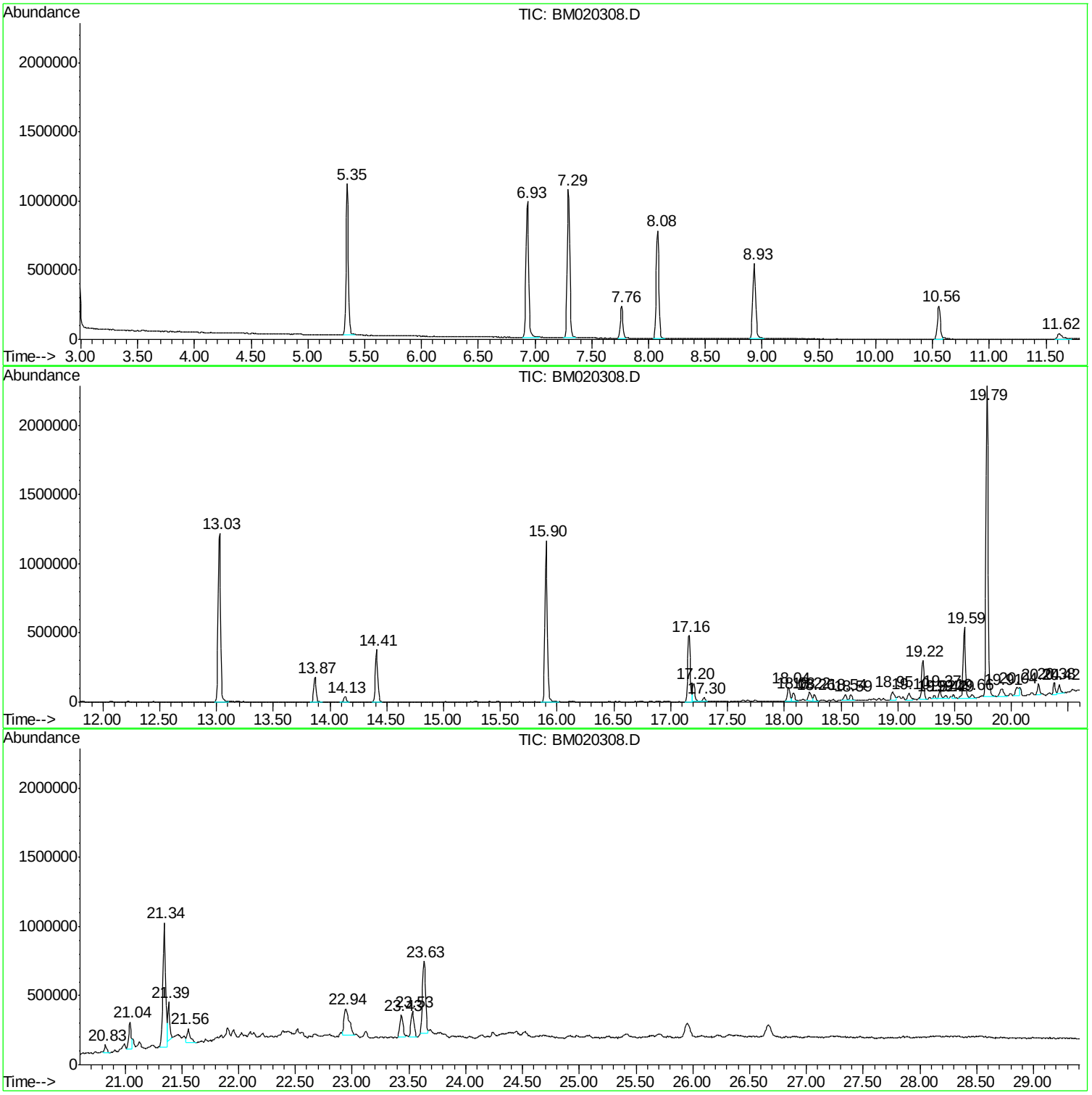
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

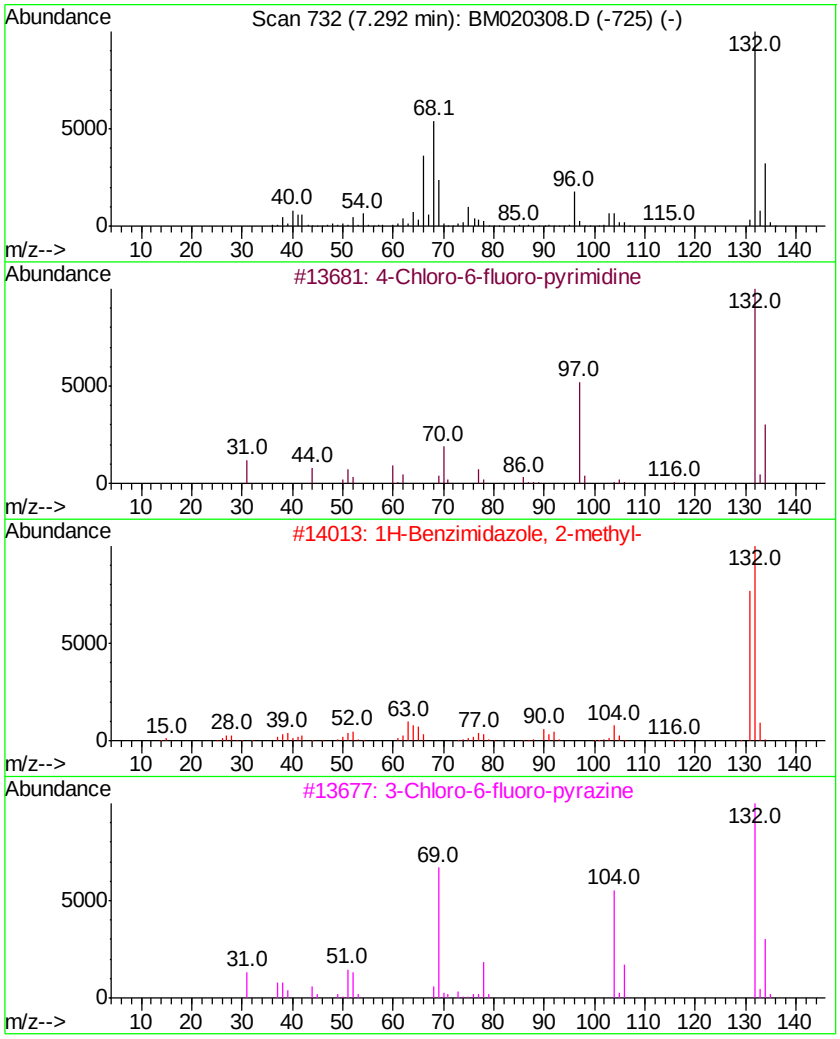
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

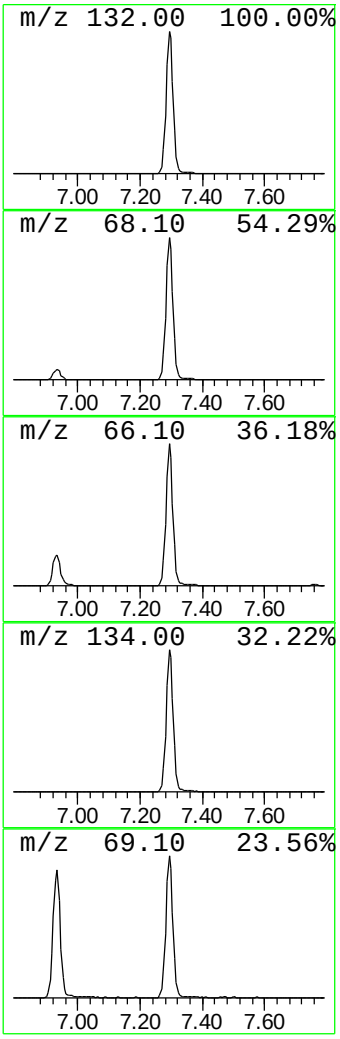
****

Peak Number 1 unknown7.29 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.29	92.52 ng	1710160	1,4-Dichlorobenzene-d4	7.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
3	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	11





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

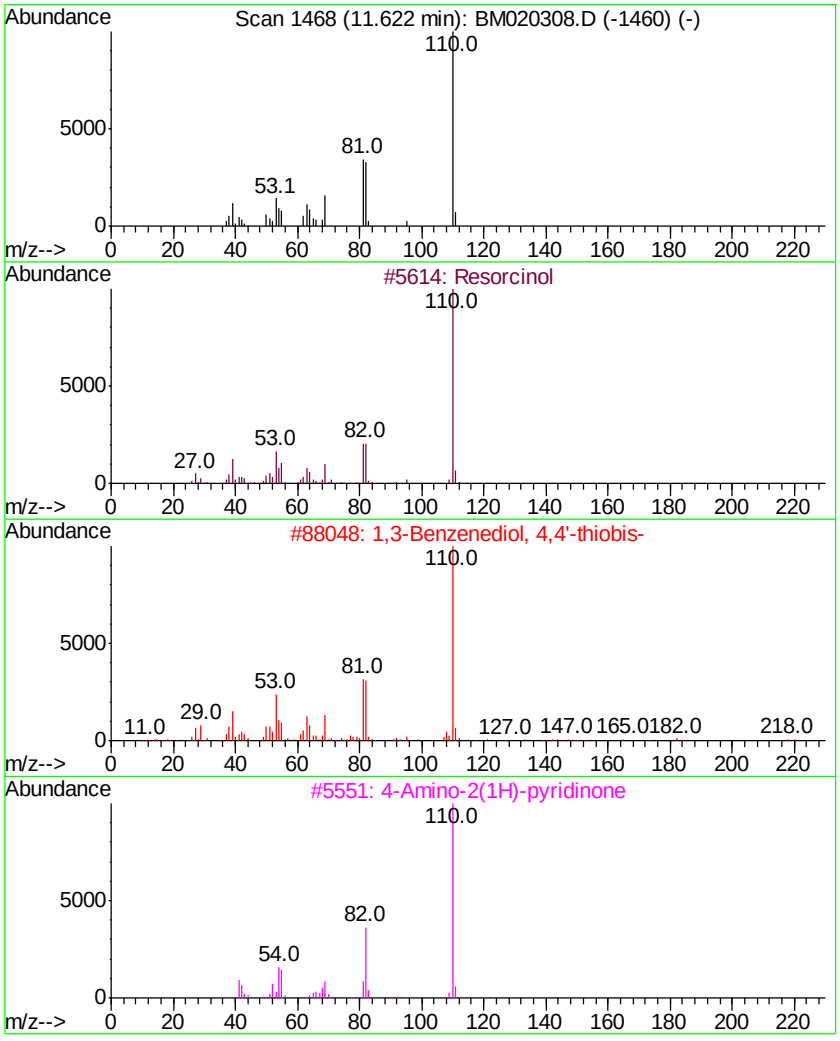
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

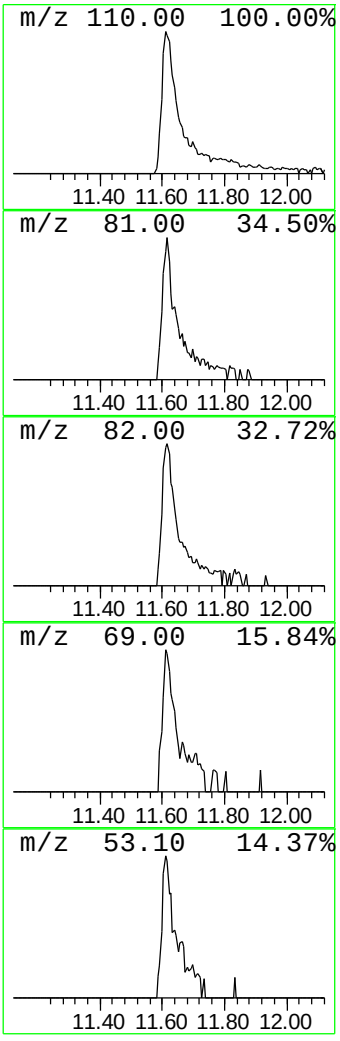
****

Peak Number 3 Resorcinol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	6.76 ng	140043	Naphthalene-d8	10.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Resorcinol	110	C6H6O2	000108-46-3	91
2	1,3-Benzenediol, 4,4'-thiobis-	250	C12H10O4S	000097-29-0	78
3	4-Amino-2(1H)-pyridinone	110	C5H6N2O	038767-72-5	59
4	Cyclohexanone, 4-methylidene-	110	C7H10O	029648-66-6	59
5	4(1H)-Pyrimidinone, 6-methyl-	110	C5H6N2O	003524-87-6	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

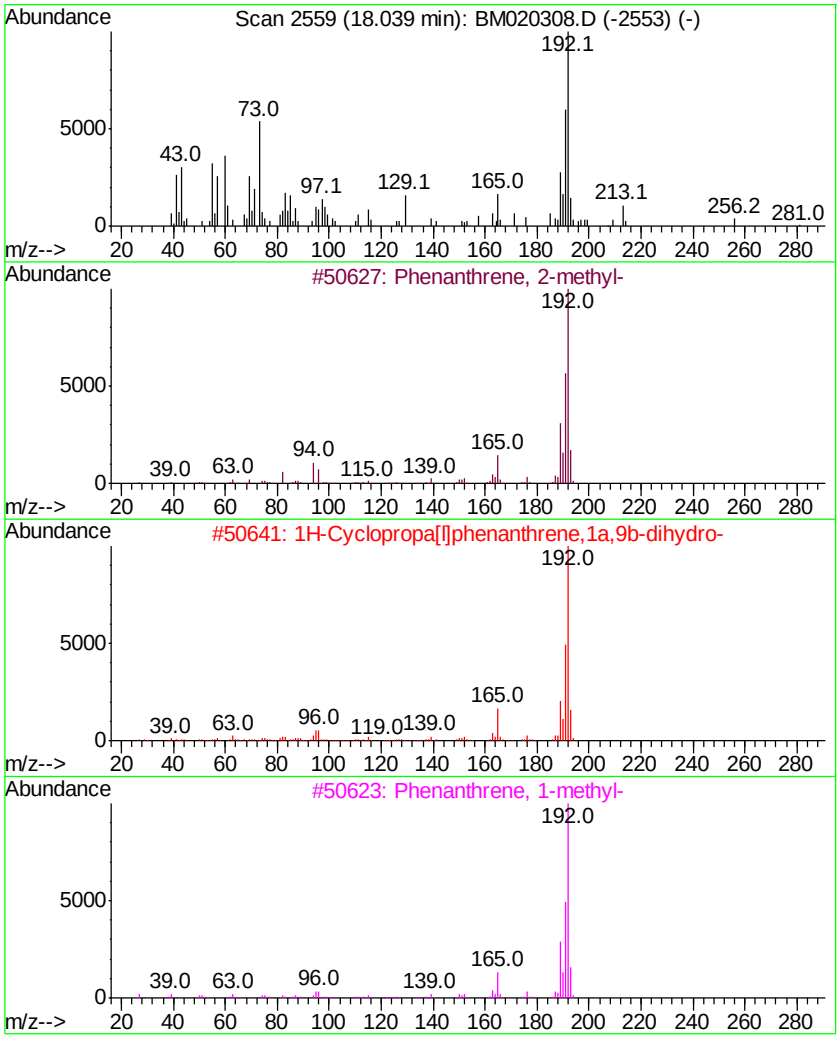
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

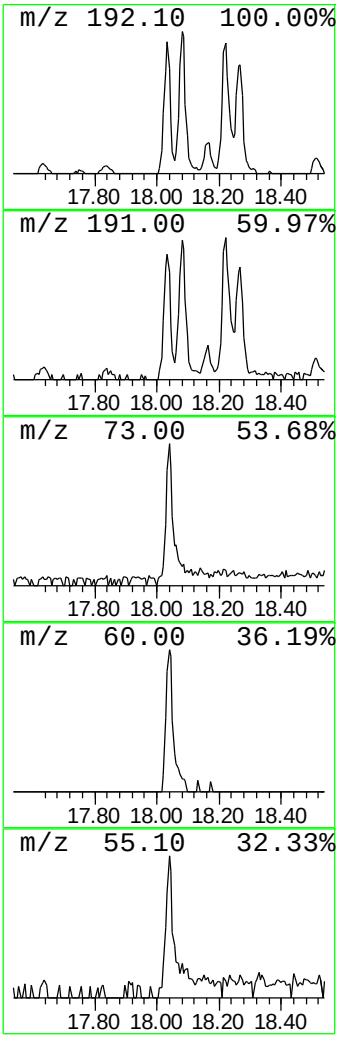
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	4.67 ng	169642	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

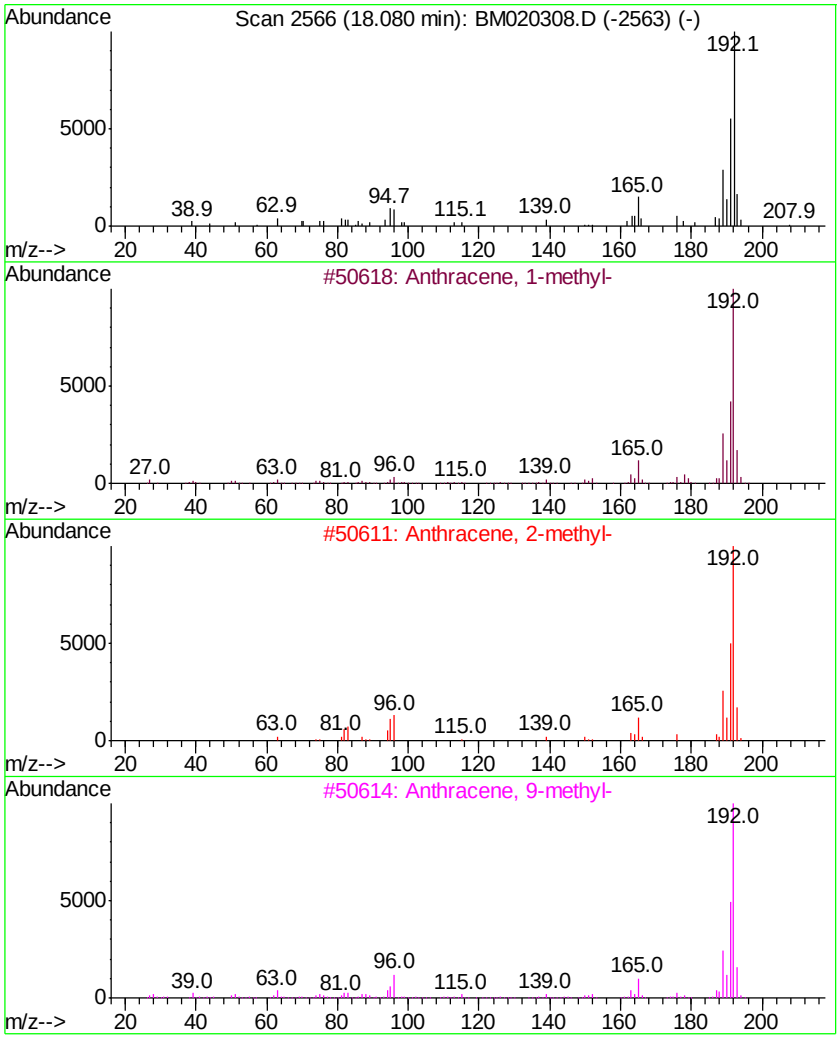
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

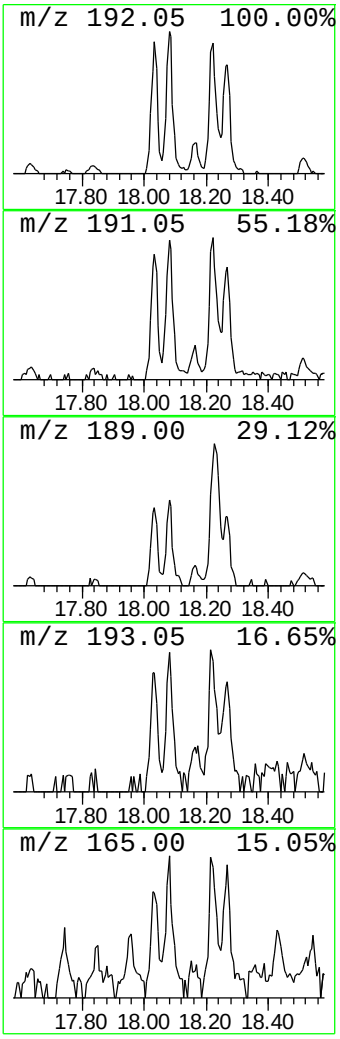
****

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	2.45 ng	88920	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

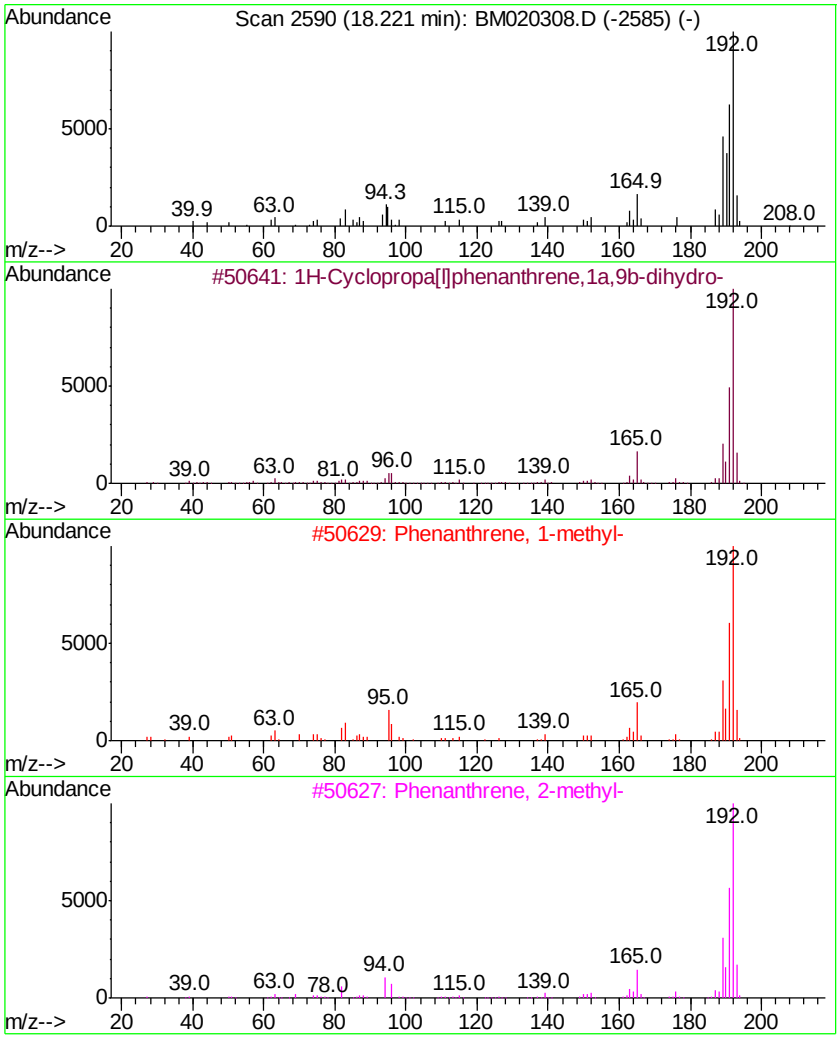
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

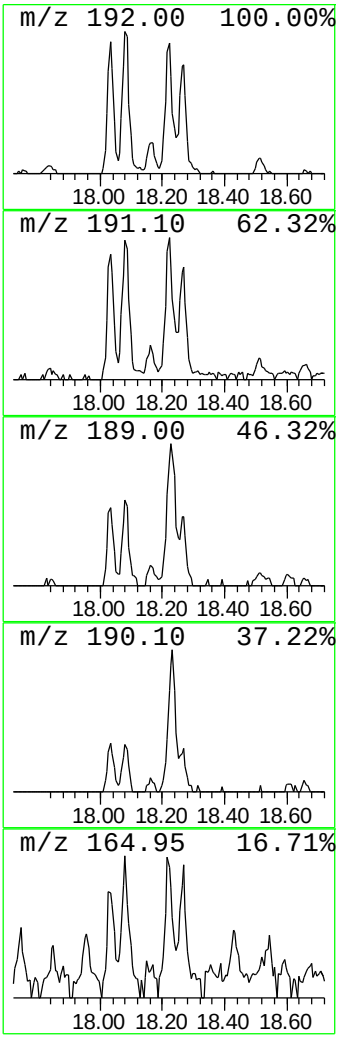
****

Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.22	3.20 ng	116156	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

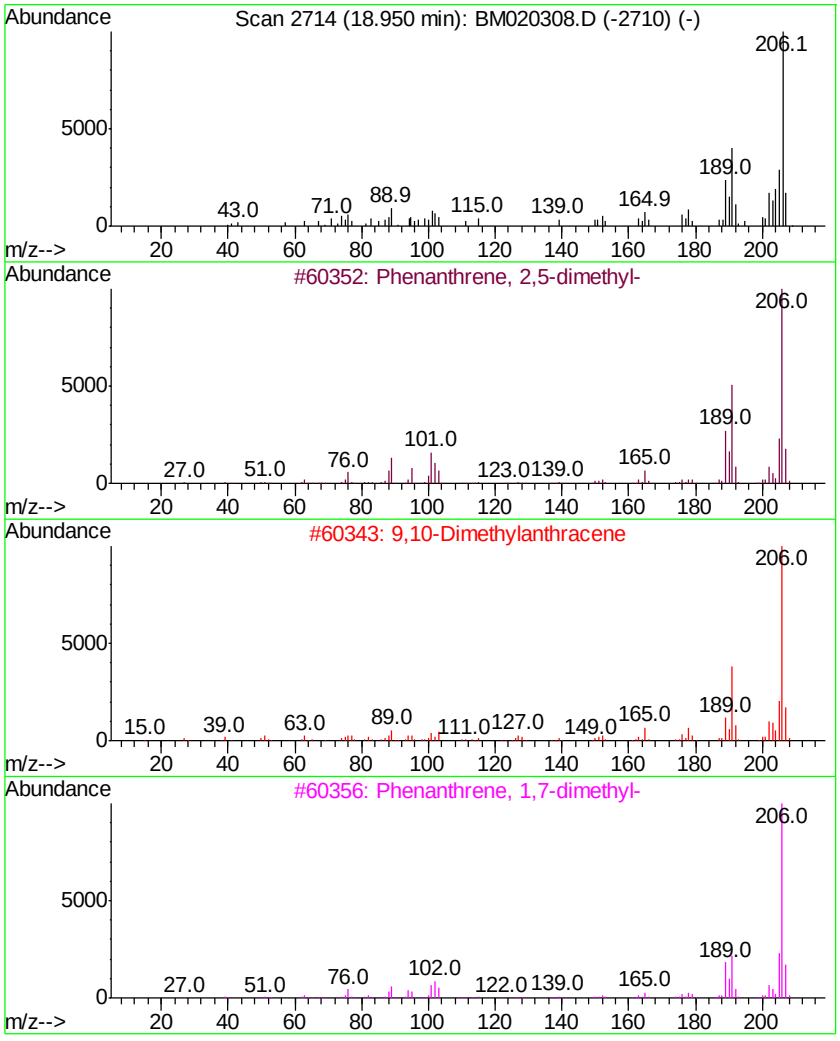
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

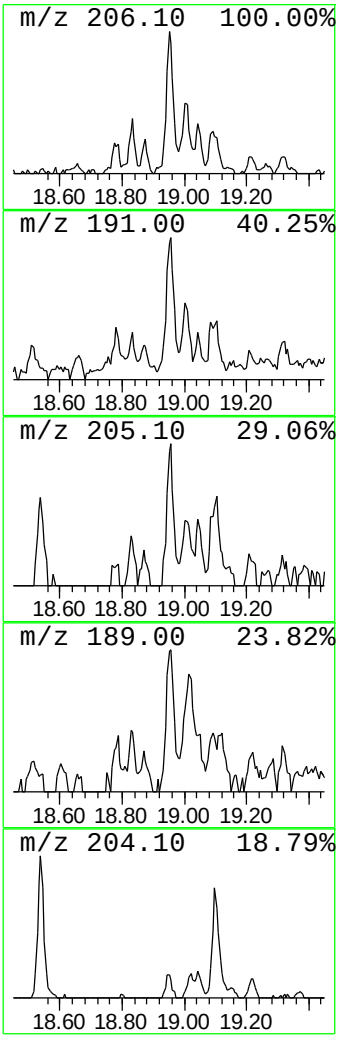
****

Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	3.35 ng	121605	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

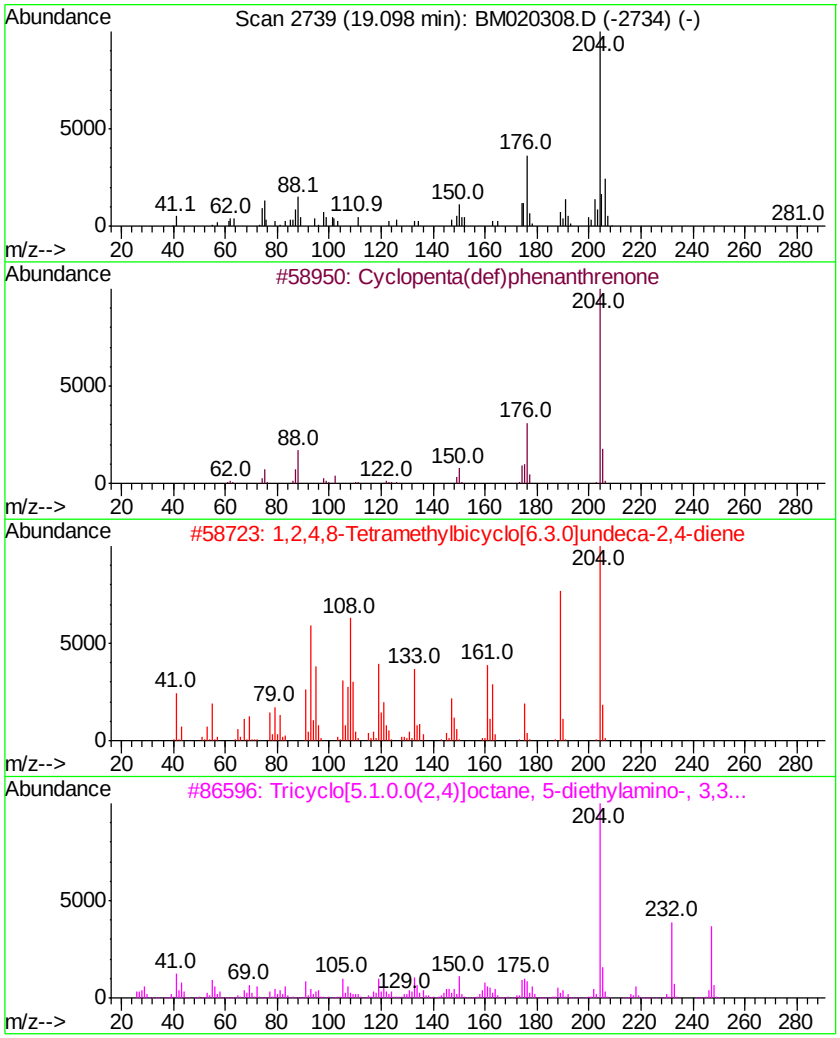
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

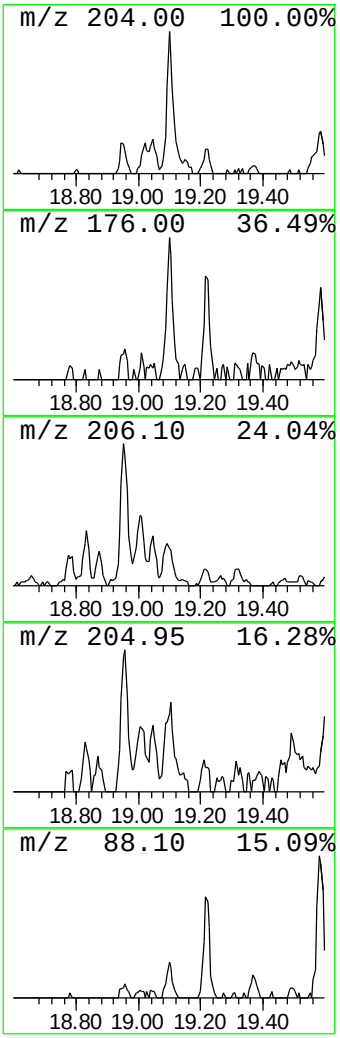
****

Peak Number 8 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	2.37 ng	85863	Phenanthrene-d10	17.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
3	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	53
4	3H-Cyclopenta[c]quinoline-4-carb...	249	C13H12ClNO2	1000265-10-7	50
5	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

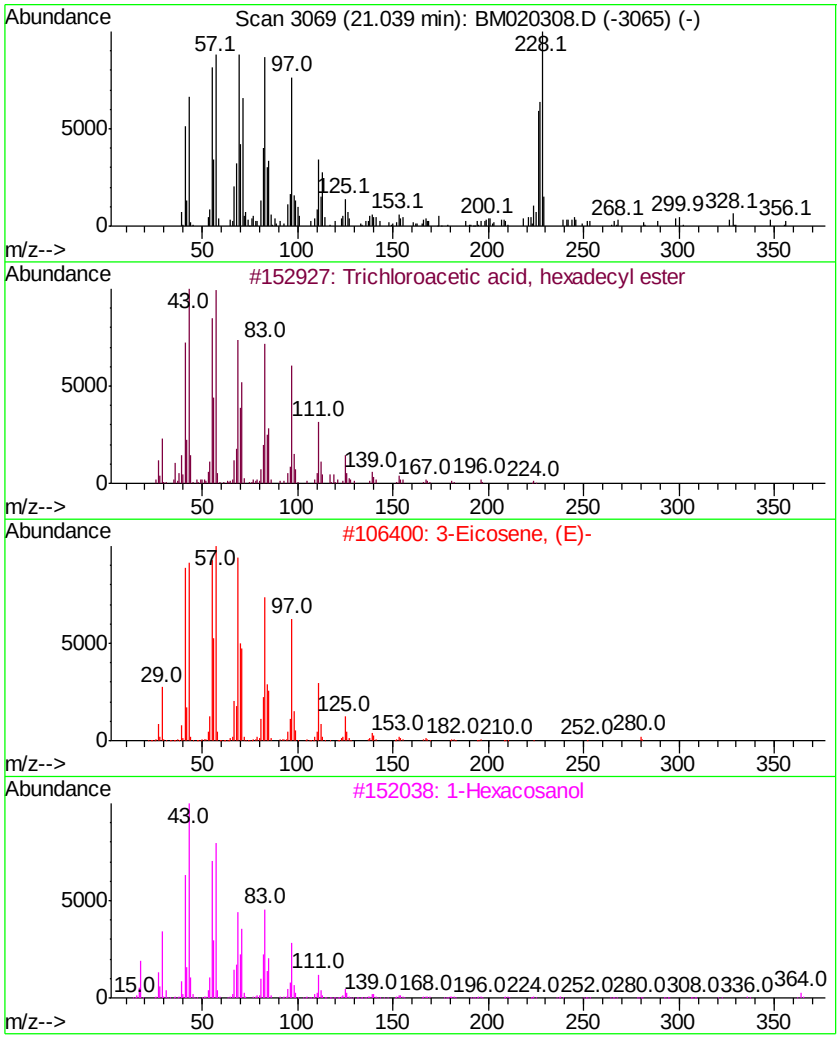
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

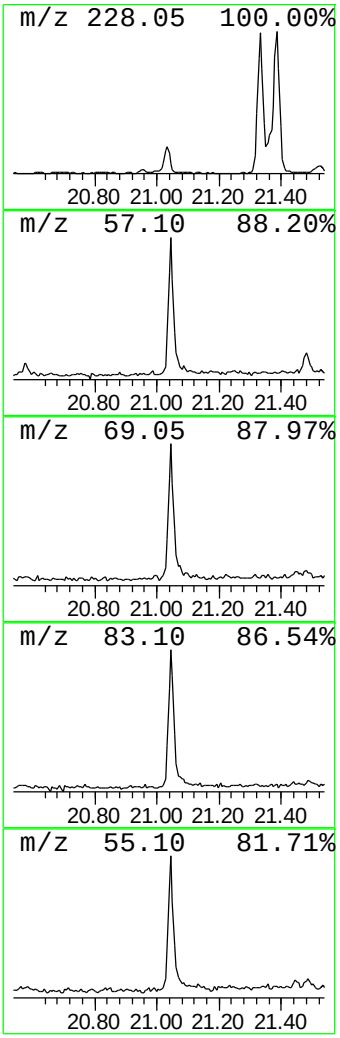
****

Peak Number 9 Trichloroacetic acid, hexad... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.04	4.04 ng	306721	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	81
2	3-Eicosene, (E)-	280	C20H40	074685-33-9	68
3	1-Hexacosanol	382	C26H54O	000506-52-5	64
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	62
5	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	60





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

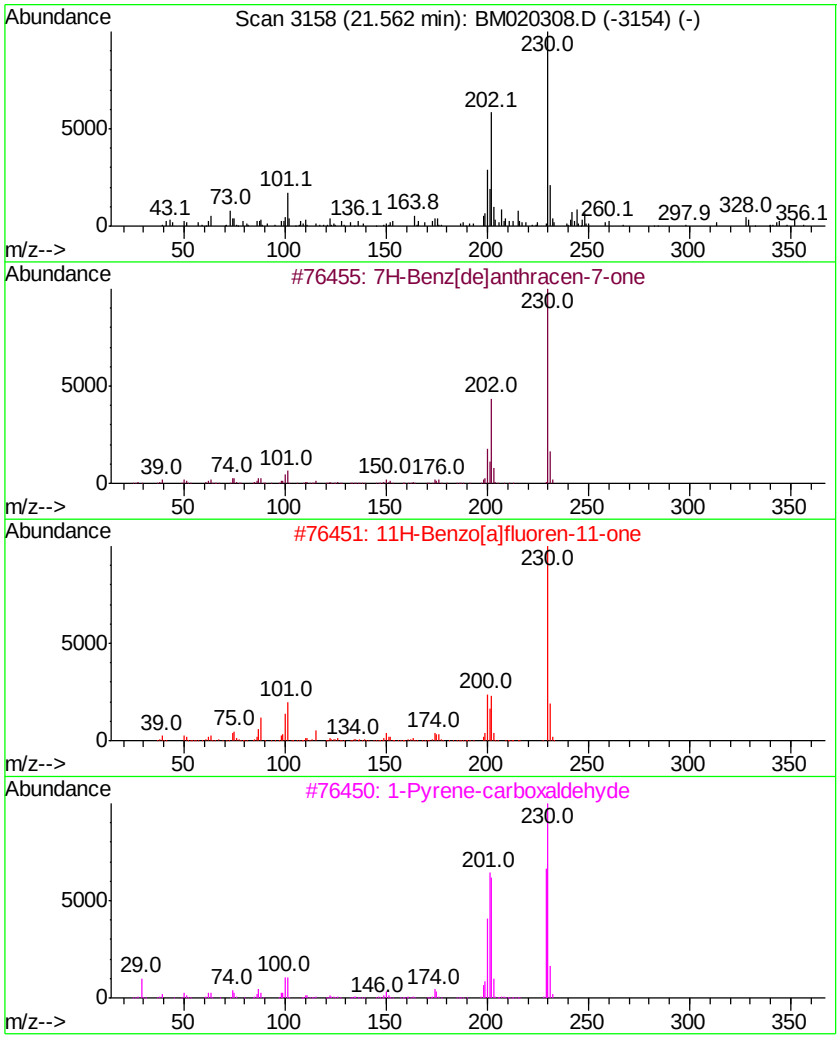
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

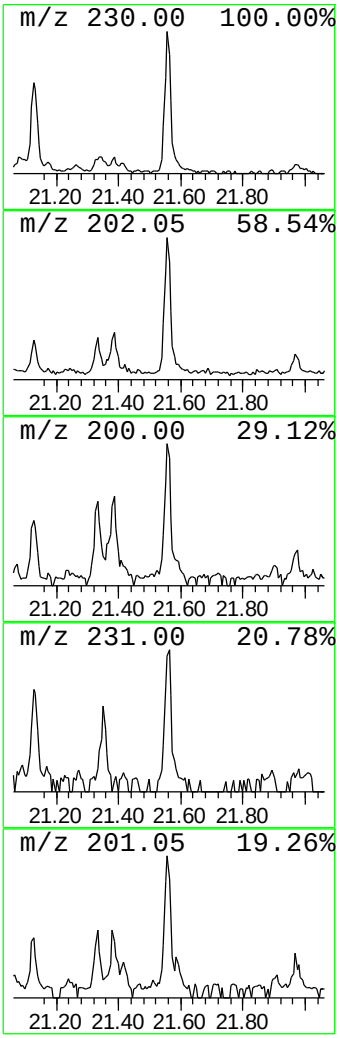
****

Peak Number 10 7H-Benz[de]anthracen-7-one Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.56	2.33 ng	176662	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	93
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	80
3	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	50
4	o-Terphenyl	230	C18H14	000084-15-1	43
5	Coumarin-6-ol, 5-cyano-3,4-dihyd...	309	C14H15NO5S	1000126-44-3	40





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

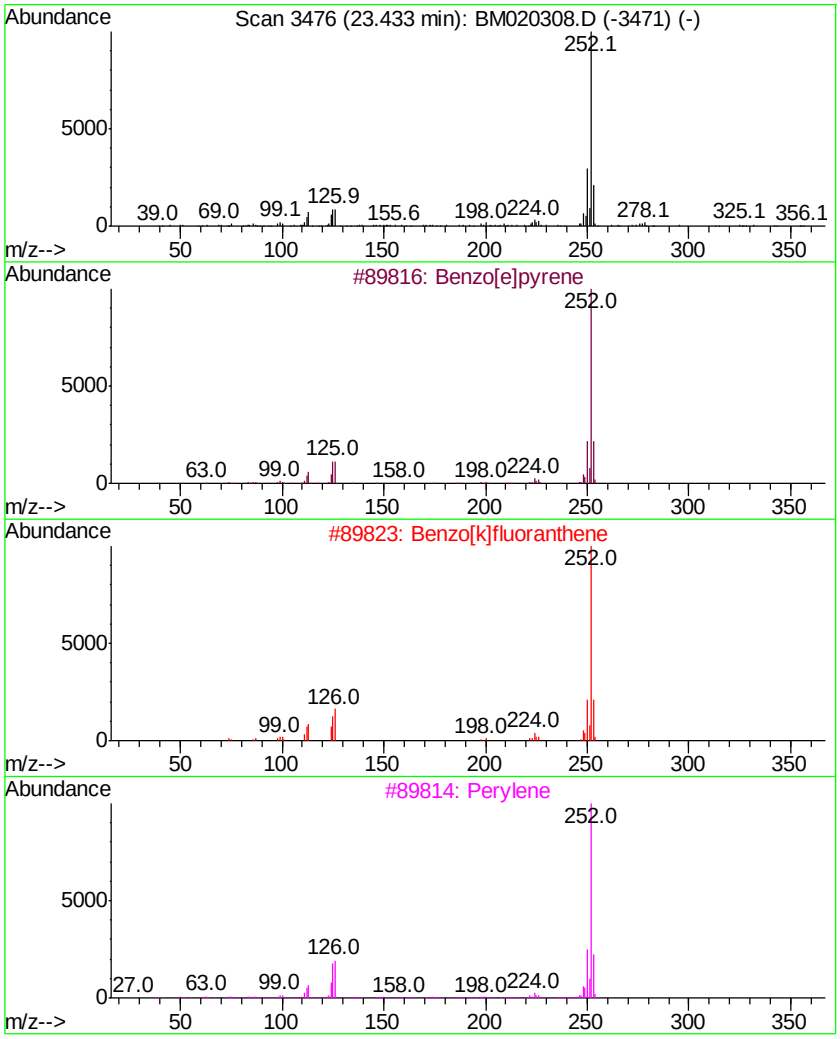
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

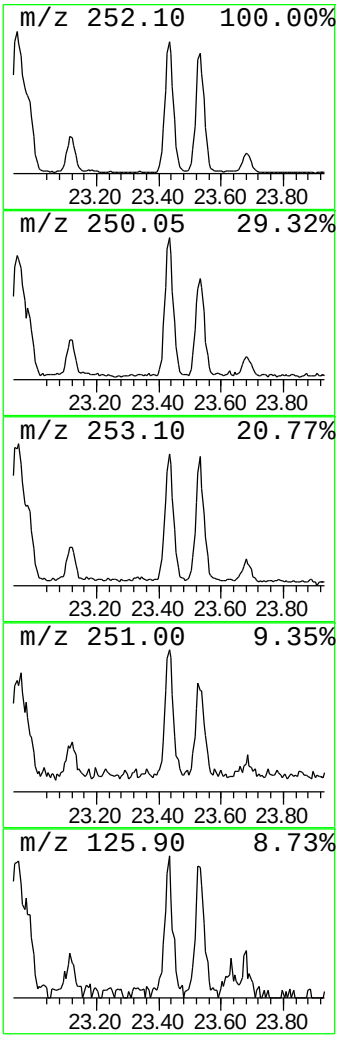
****

Peak Number 11 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.43	6.08 ng	303406	Perylene-d12	23.63

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051219\
Data File : BM020308.D
Acq On : 12 May 2019 20:54
Operator : JU/SJ
Sample : K2767-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P026-SS009-1824-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown7.29	7.29	92.5	ng	1710160	1	7.76	369672	20.0
Resorcinol	11.62	6.8	ng	140043	2	10.56	414066	20.0
Phenanthrene, 2-m...	18.04	4.7	ng	169642	4	17.16	725771	20.0
Anthracene, 1-met...	18.08	2.5	ng	88920	4	17.16	725771	20.0
1H-Cyclopropa[l]p...	18.22	3.2	ng	116156	4	17.16	725771	20.0
Phenanthrene, 2,5...	18.95	3.4	ng	121605	4	17.16	725771	20.0
Cyclopenta(def)ph...	19.10	2.4	ng	85863	4	17.16	725771	20.0
Trichloroacetic a...	21.04	4.0	ng	306721	5	21.34	1518960	20.0
7H-Benz[de]anthra...	21.56	2.3	ng	176662	5	21.34	1518960	20.0
Benzo[e]pyrene	23.43	6.1	ng	303406	6	23.63	997504	20.0