LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

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_P\METHODS\8270-BP121919.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	5.604	592	598	610	rVB	160552	271277	15.17%	1.551%
2	6.210	694	701	712	rBV	1054913	1329731	74.34%	7.601%
3	7.751	956	963	973	rBV	1070742	1542526	86.23%	8.817%
4	7.928	987	993	1006	rVB	1206685	1527692	85.40%	8.732%
5	8.286	1048	1054	1061	rBV	306598	360876	20.17%	2.063%
6	8.528	1088	1095	1099	rBV	1021523	1174490	65.66%	6.713%
7	9.169	1196	1204	1208	rBV	738922	976586	54.60%	5.582%
8	10.322	1390	1400	1404	rBV	364029	451418	25.24%	2.580%
9	12.098	1694	1702	1707	rBV	1430106	1788782	100.00%	10.225%
10	12.763	1807	1815	1821	rBV	46186	58586	3.28%	0.335%
11	12.945	1840	1846	1852	rBV	30033	37610	2.10%	0.215%
12	13.180	1878	1886	1891	rBV	416511	491532	27.48%	2.810%
13	14.474	2099	2106	2117	rBV	778382	1026905	57.41%	5.870%
14	15.204	2226	2230	2233	rBV3	13372	18831	1.05%	0.108%
15	15.280	2239	2243	2254	rVB3	9998	21084	1.18%	0.121%
16	15.374	2254	2259	2263	rBV3	13992	23980	1.34%	0.137%
17	15.580	2289	2294	2297	rBV	399558	449714	25.14%	2.571%
18	15.616	2297	2300	2305	rVB	228383	244245	13.65%	1.396%
19	15.692	2309	2313	2316	rBV	60186	62572	3.50%	0.358%
20	16.339	2417	2423	2426	rBV	41729	53829	3.01%	0.308%
21	16.374	2426	2429	2434	rVB	55223	64985	3.63%	0.371%
22	16.445	2437	2441	2443	rBV	28448	35695	2.00%	0.204%
23	16.474	2443	2446	2447	rBV	74732	80850	4.52%	0.462%
24	16.521	2452	2454	2459	rVB	32407	41309	2.31%	0.236%
25	16.768	2492	2496	2505	rVB2	37166	62617	3.50%	0.358%
26	17.115	2551	2555	2559	rBV2	28977	43192	2.41%	0.247%
27	17.333	2587	2592	2595	rBV	450309	512990	28.68%	2.932%
28	17.457	2610	2613	2617	rVB	30873	36641	2.05%	0.209%
29	17.527	2622	2625	2628	rVV2	19170	23209	1.30%	0.133%
30	17.557	2628	2630	2636	rVB3	20775	22508	1.26%	0.129%
31	17.633	2638	2643	2647	rVB2	430906	531114	29.69%	3.036%
32	17.709	2654	2656	2660	rVB	22042	19630	1.10%	0.112%
33	17.810	2670	2673	2676	rBV	33329	35595	1.99%	0.203%
34	17.868	2676	2683	2687	rVV	1357583	1419925	79.38%	8.116%

LSC Area Percent Report

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Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

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_P\METHODS\8270-BP121919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	17.945	2693	2696	2700	rVB2	29133	41004	2.29%	0.234%
36	18.057	2712	2715	2717	rBV4	28465	39233	2.19%	0.224%
37	18.086	2718	2720	2724	rVB	56355	55895	3.12%	0.319%
38	18.180	2733	2736	2739	rBV	25766	26476	1.48%	0.151%
39	18.221	2739	2743	2749	rBV2	68555	108527	6.07%	0.620%
40	18.345	2761	2764	2767	rBV	33777	34948	1.95%	0.200%
41	18.751	2830	2833	2840	rVB	43165	53326	2.98%	0.305%
42	18.939	2863	2865	2867	rBV	25966	21553	1.20%	0.123%
43	19.021	2877	2879	2885	rVB	42483	46622	2.61%	0.266%
44	19.104	2889	2893	2904	rBV3	123301	232517	13.00%	1.329%
45	19.227	2908	2914	2917	rBV2	394053	669827	37.45%	3.829%
46	19.256	2917	2919	2923	rVB	207747	203037	11.35%	1.161%
47	19.515	2961	2963	2966	rVB2	38706	34735	1.94%	0.199%
48	19.727	2997	2999	3004	rVB	52094	48781	2.73%	0.279%
49	20.280	3091	3093	3095	rBV	46293	34147	1.91%	0.195%
50	20.509	3128	3132	3136	rBV	181201	314973	17.61%	1.800%
51	20.851	3188	3190	3197	rVB	103035	128479	7.18%	0.734%
52	20.921	3198	3202	3206	rBV	189439	233112	13.03%	1.332%
53	20.998	3210	3215	3218	rBV	242403	325187	18.18%	1.859%

Sum of corrected areas: 17494905

LSC Report - Integrated Chromatogram

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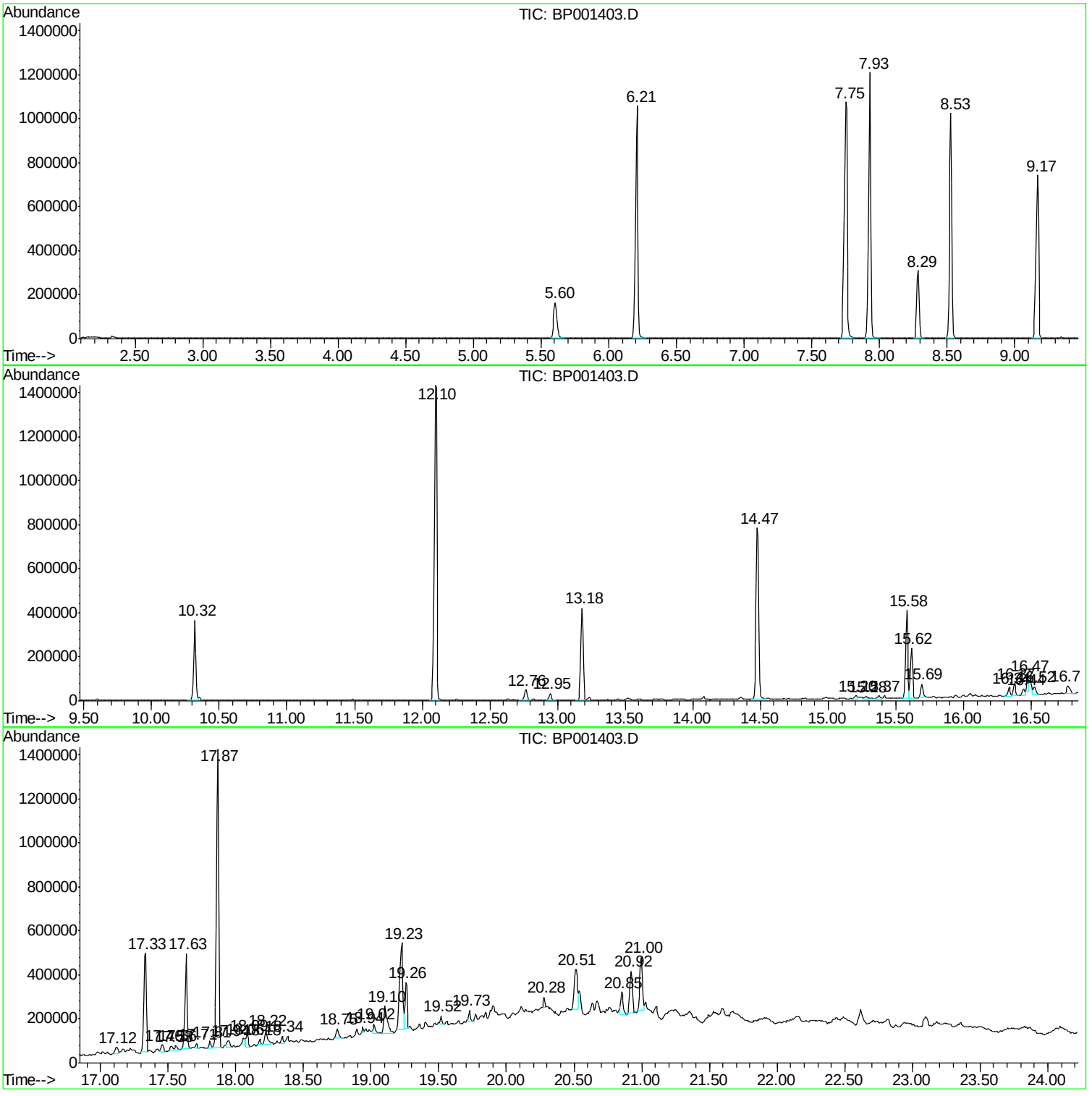
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

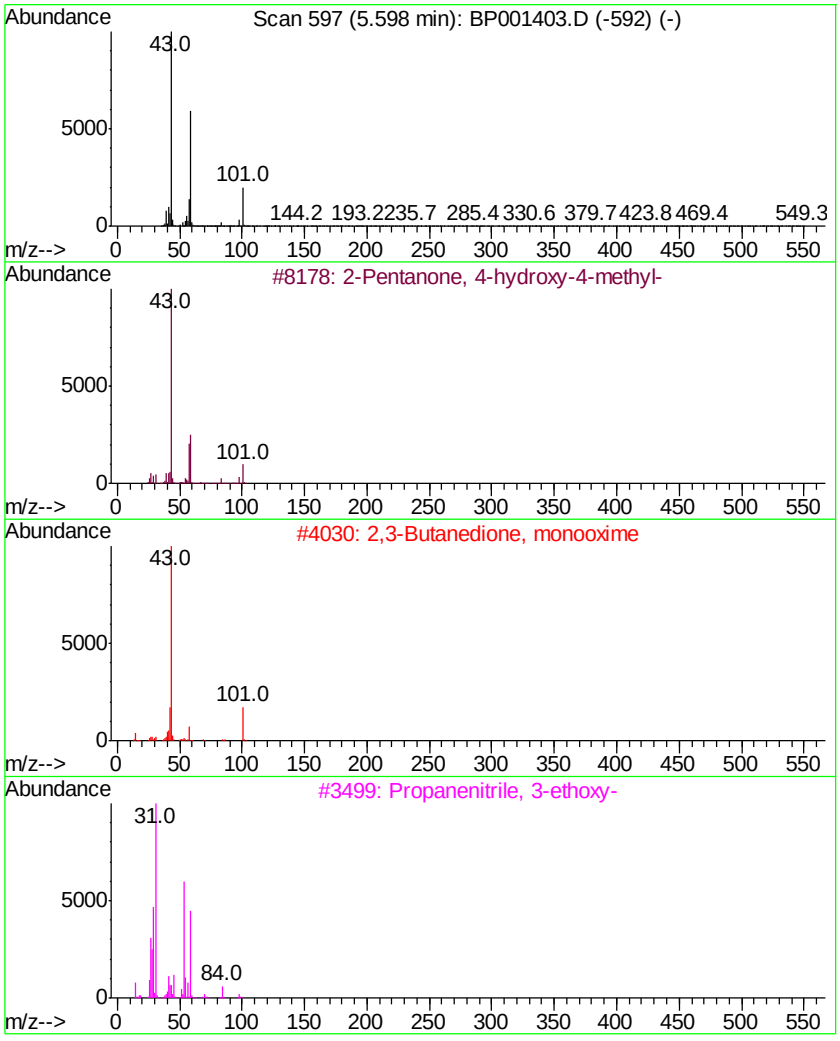
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

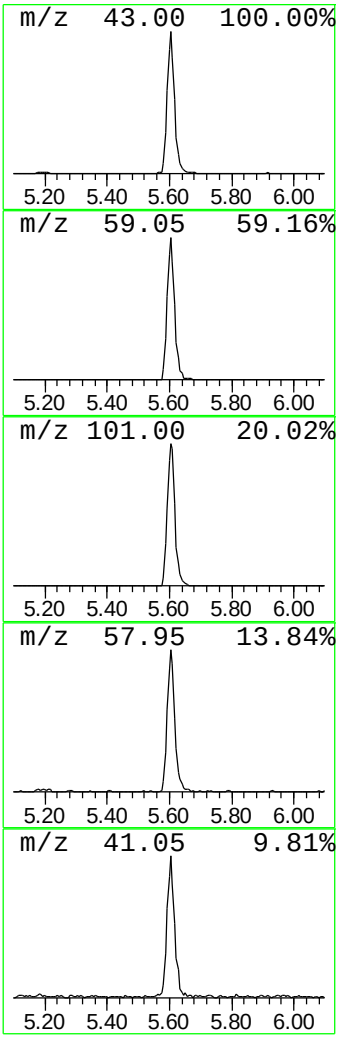
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.60	15.03 ng	271277	1,4-Dichlorobenzene-d4	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3	Propanenitrile, 3-ethoxy-	99	C5H9NO	002141-62-0	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





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Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

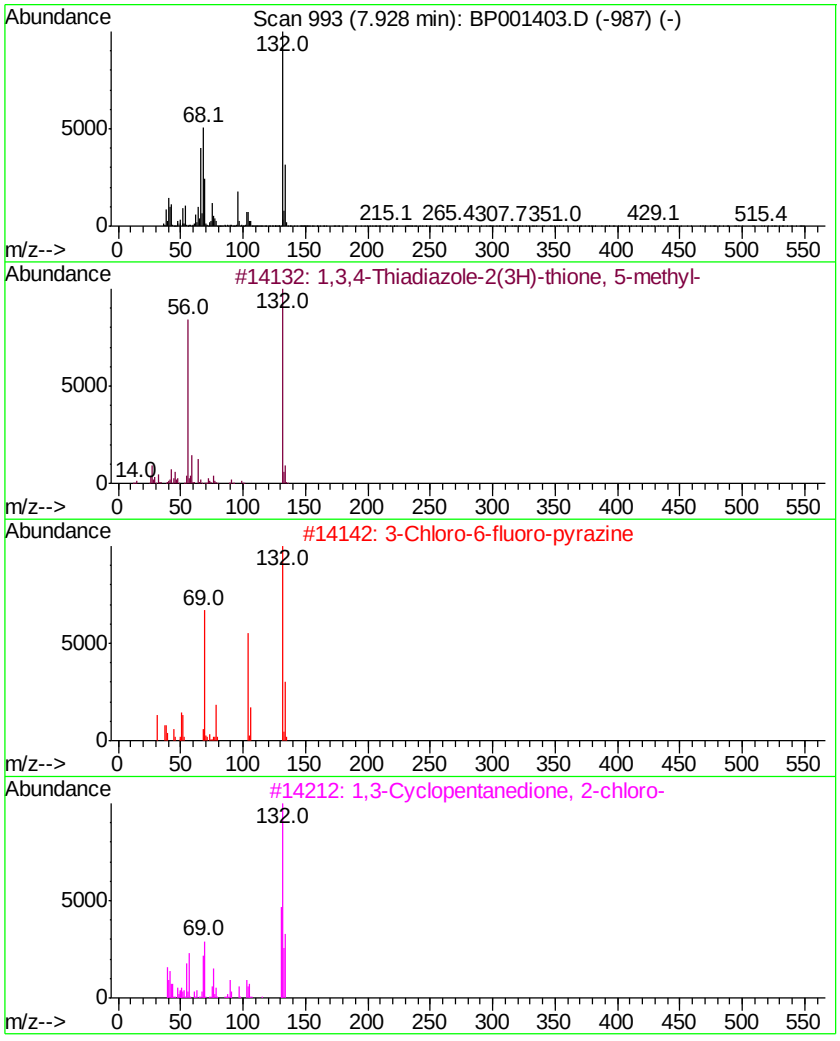
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

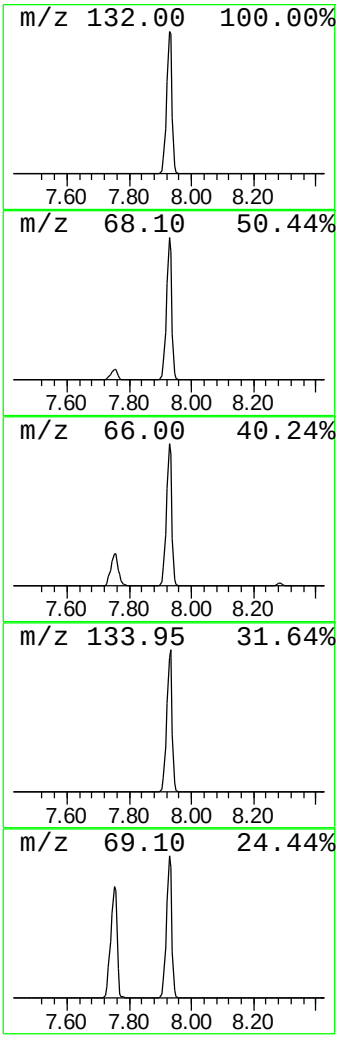
****

Peak Number 2 unknown7.93 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.93	84.67 ng	1527690	1,4-Dichlorobenzene-d4	8.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	14
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	14
3	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

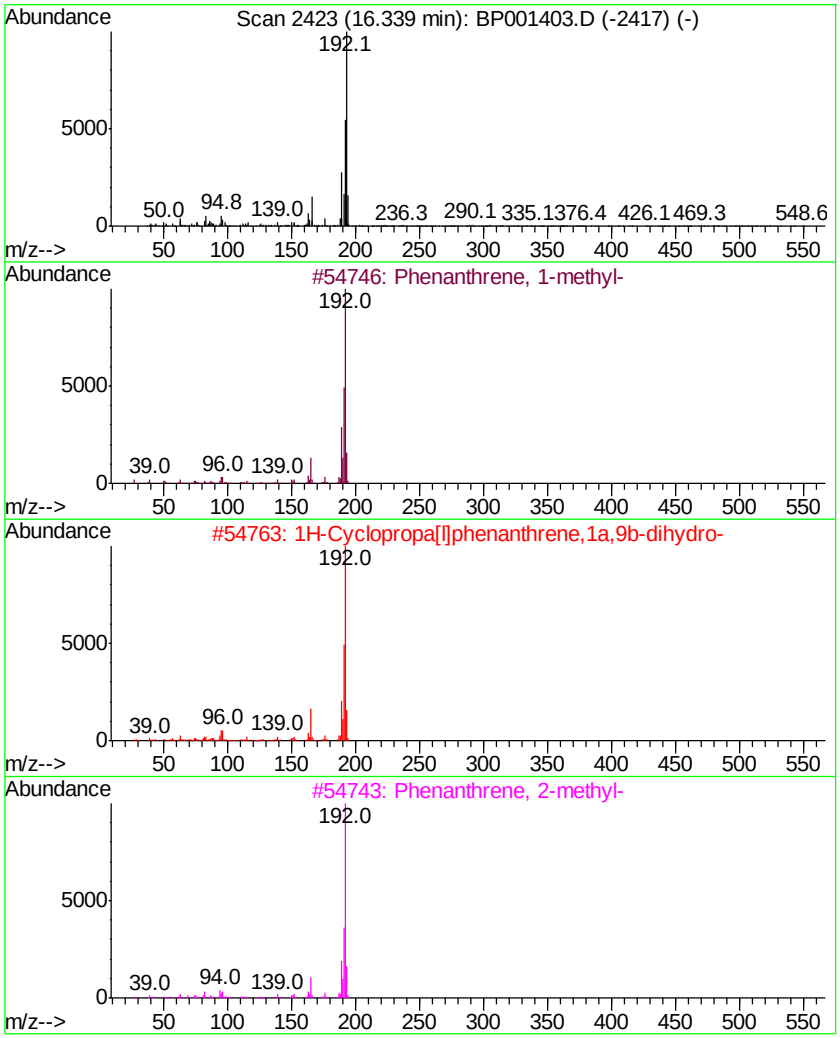
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

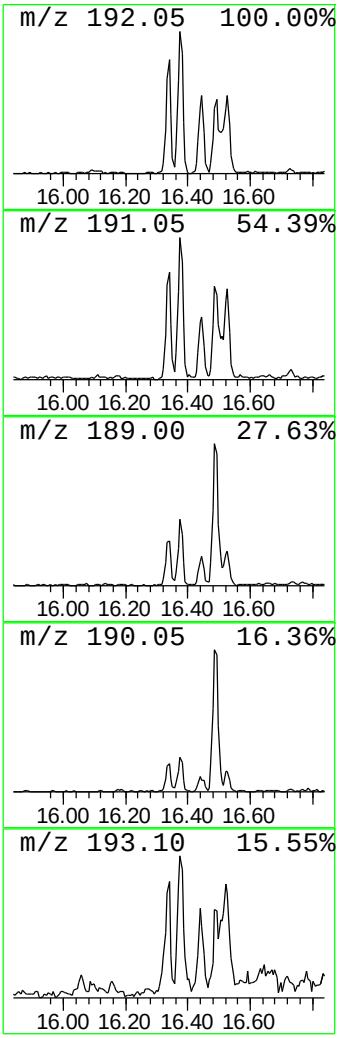
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.34	2.39 ng	53829	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

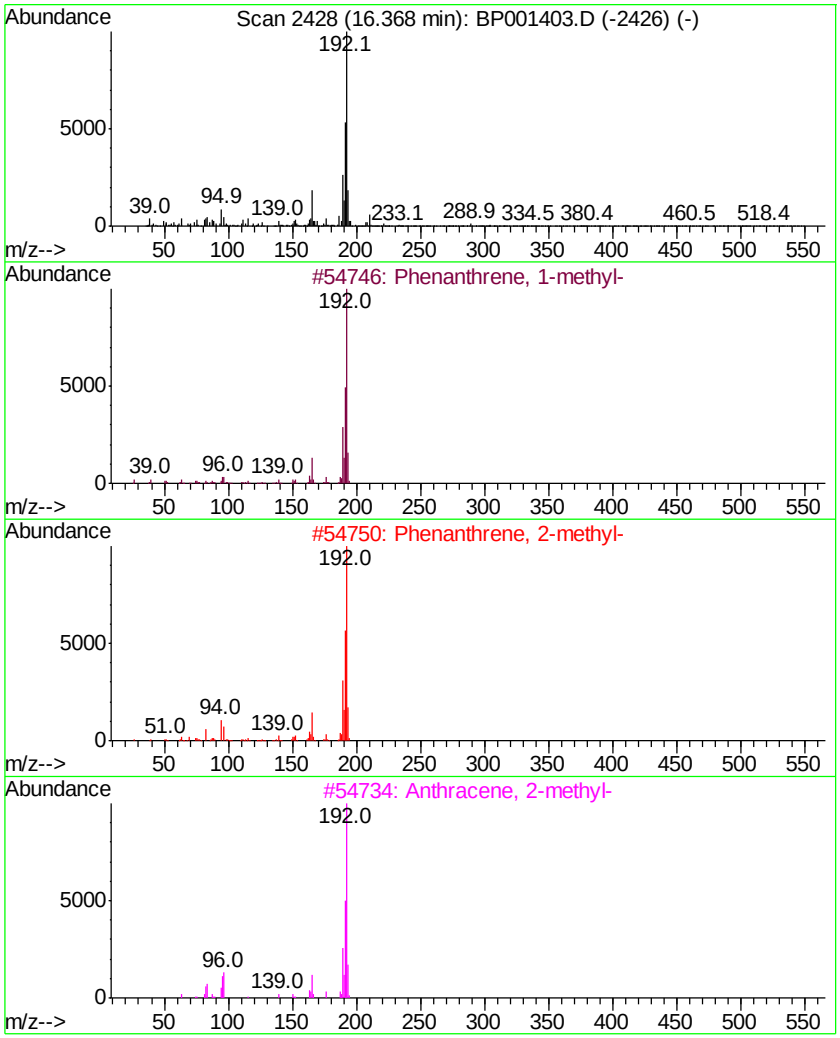
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

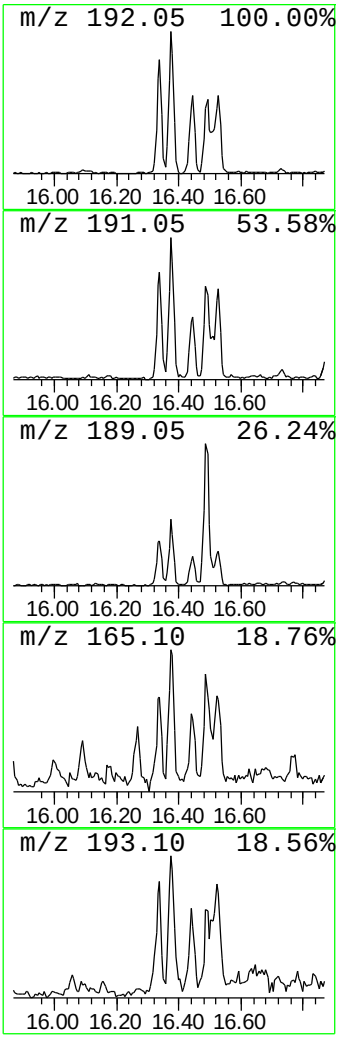
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	2.89 ng	64985	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91





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Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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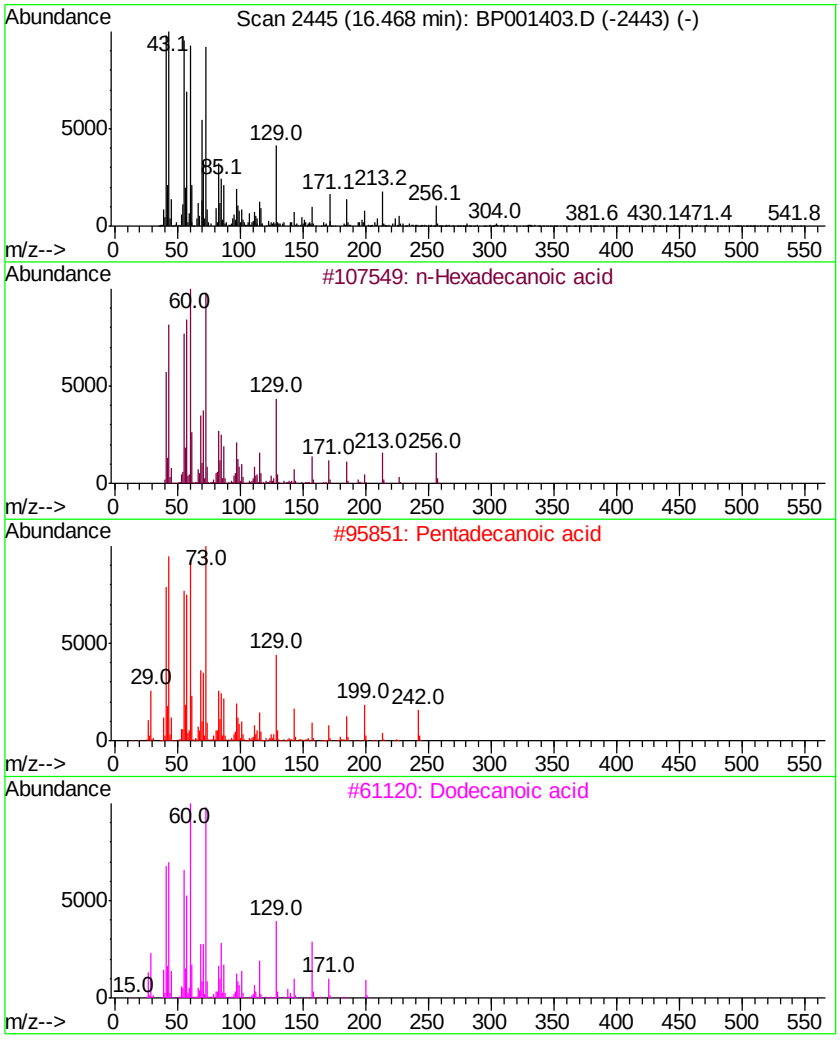
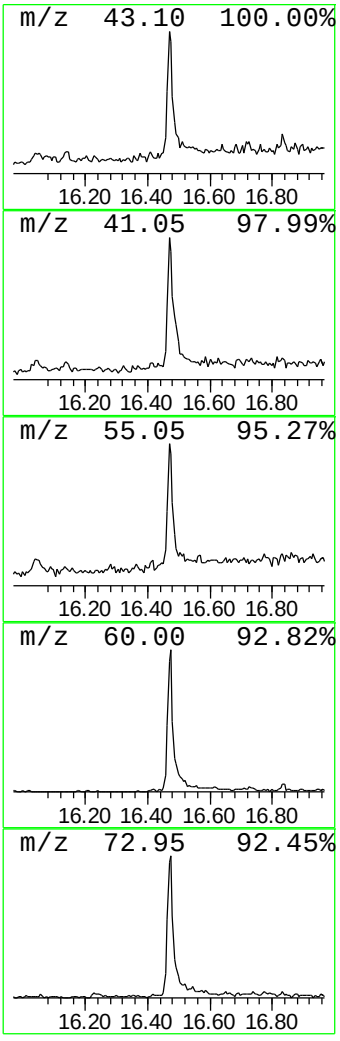
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.47	3.60 ng	80850	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	70
3	Dodecanoic acid	200	C12H24O2	000143-07-7	58
4	Octadecanoic acid	284	C18H36O2	000057-11-4	55
5	n-Decanoic acid	172	C10H20O2	000334-48-5	55





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Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

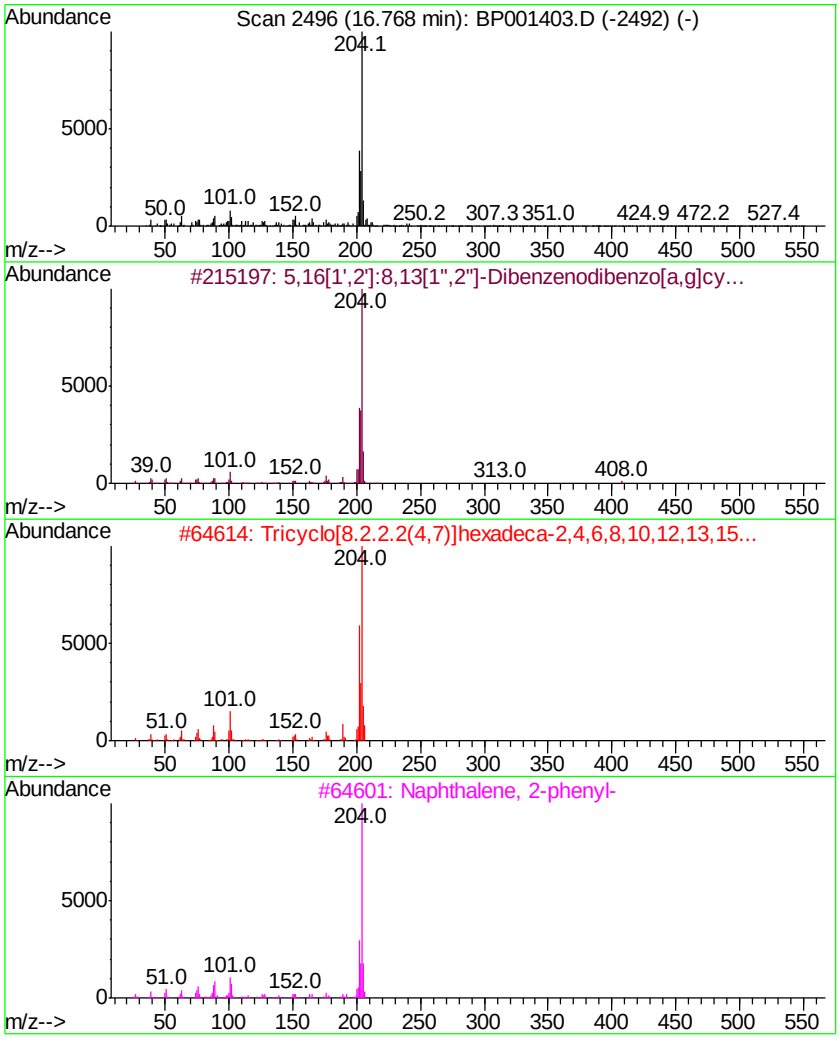
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

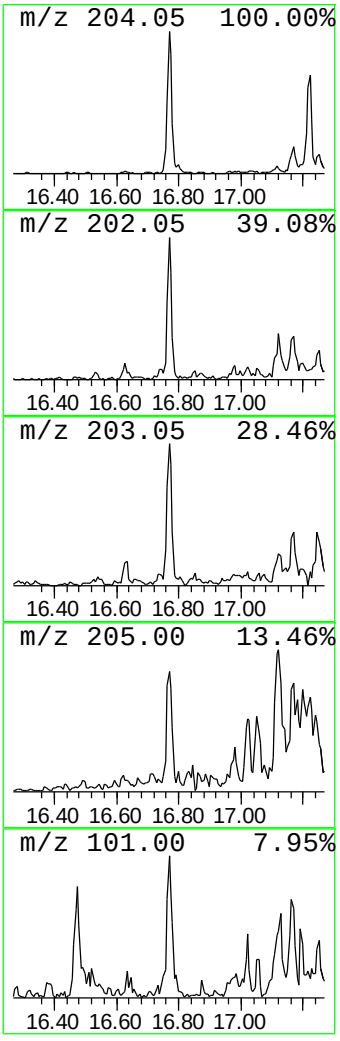
****

Peak Number 7 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	2.78 ng	62617	Phenanthrene-d10	15.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

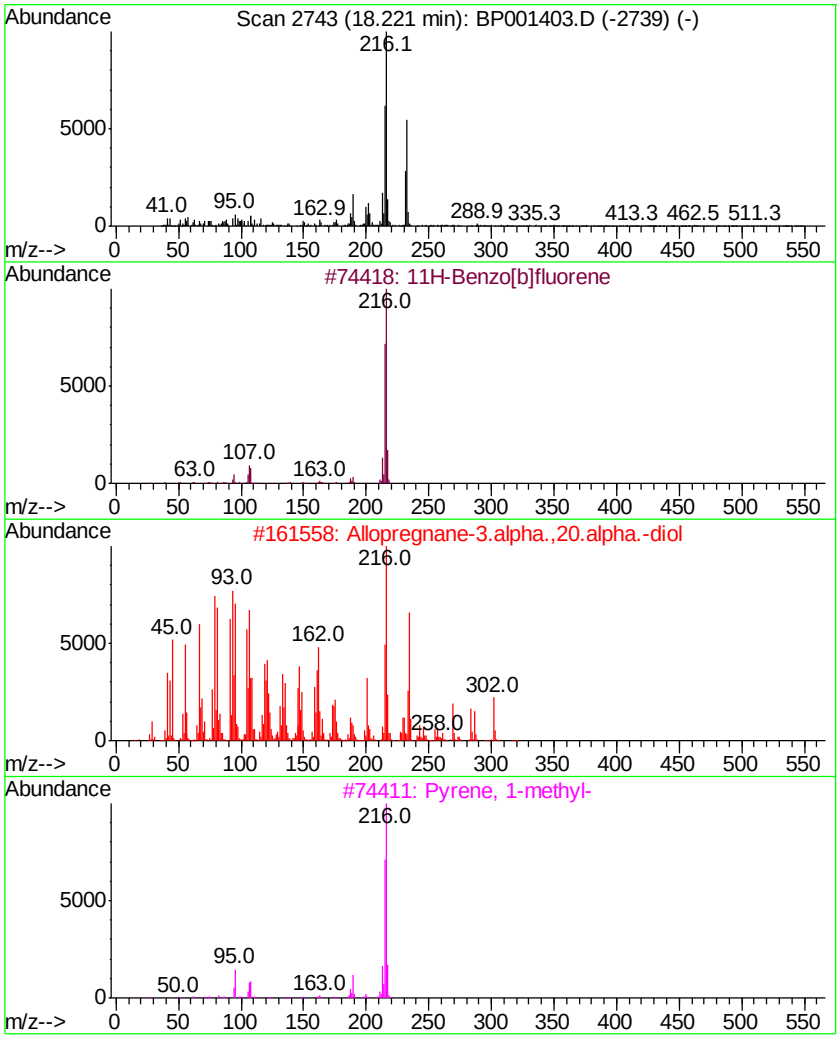
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

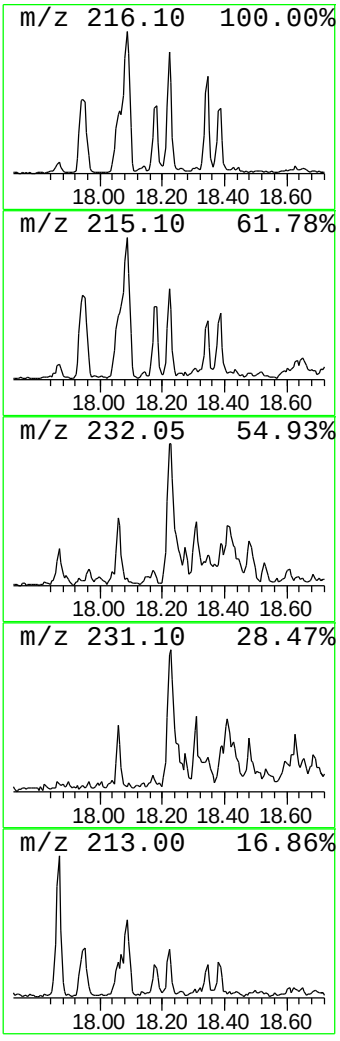
****

Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.22	3.24 ng	108527	Chrysene-d12	19.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Allopregnane-3.alpha.,20.alpha.-...	320	C21H36O2	000566-58-5	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	60
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	60





Library Search Compound Report

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Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.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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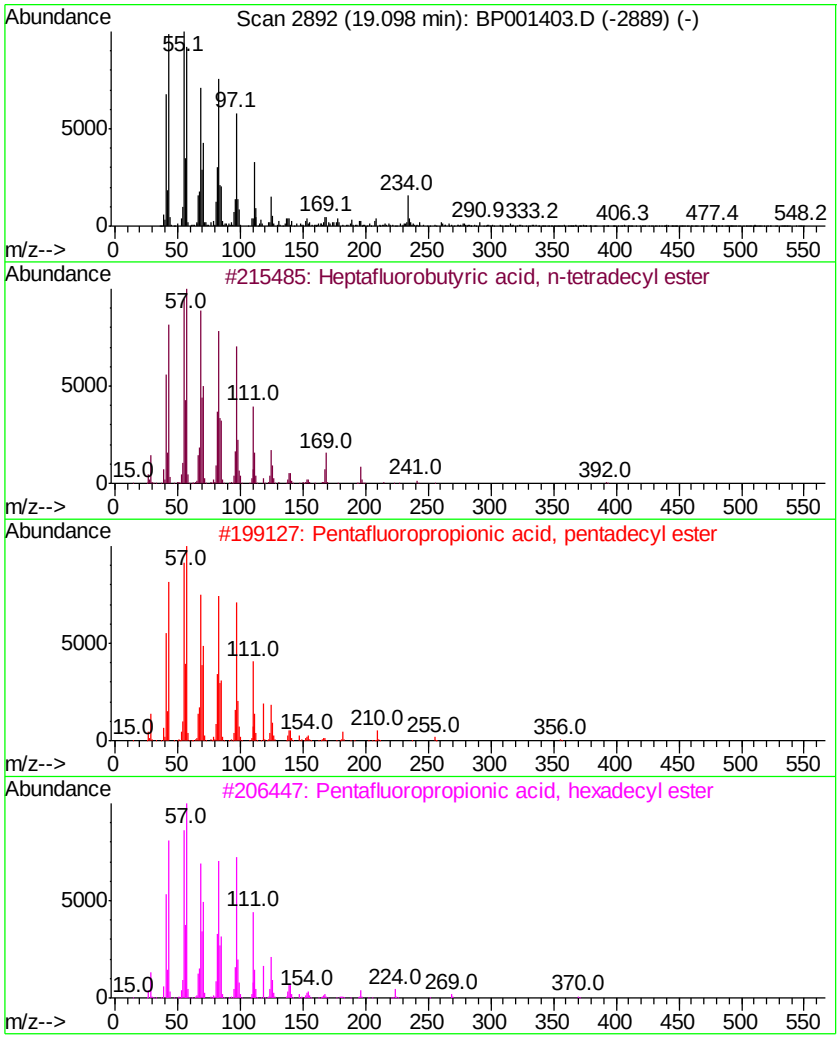
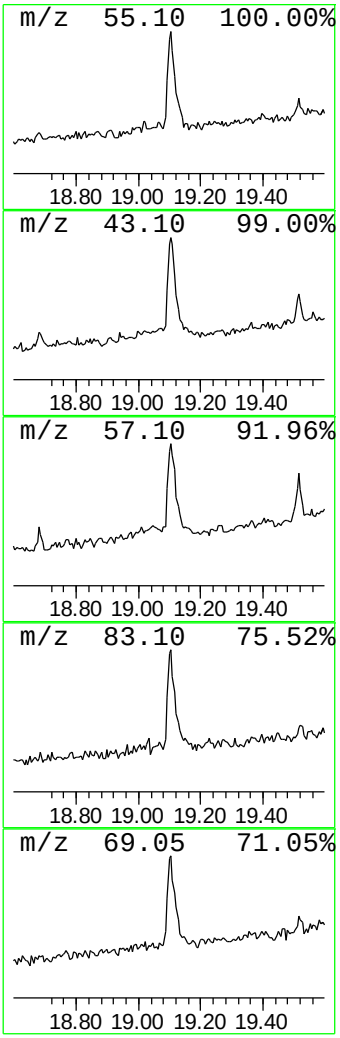
Peak Number 9 Heptafluorobutyric acid, n-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	6.94 ng	232517	Chrysene-d12	19.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	90
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	90
3	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	90
4	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	90





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Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

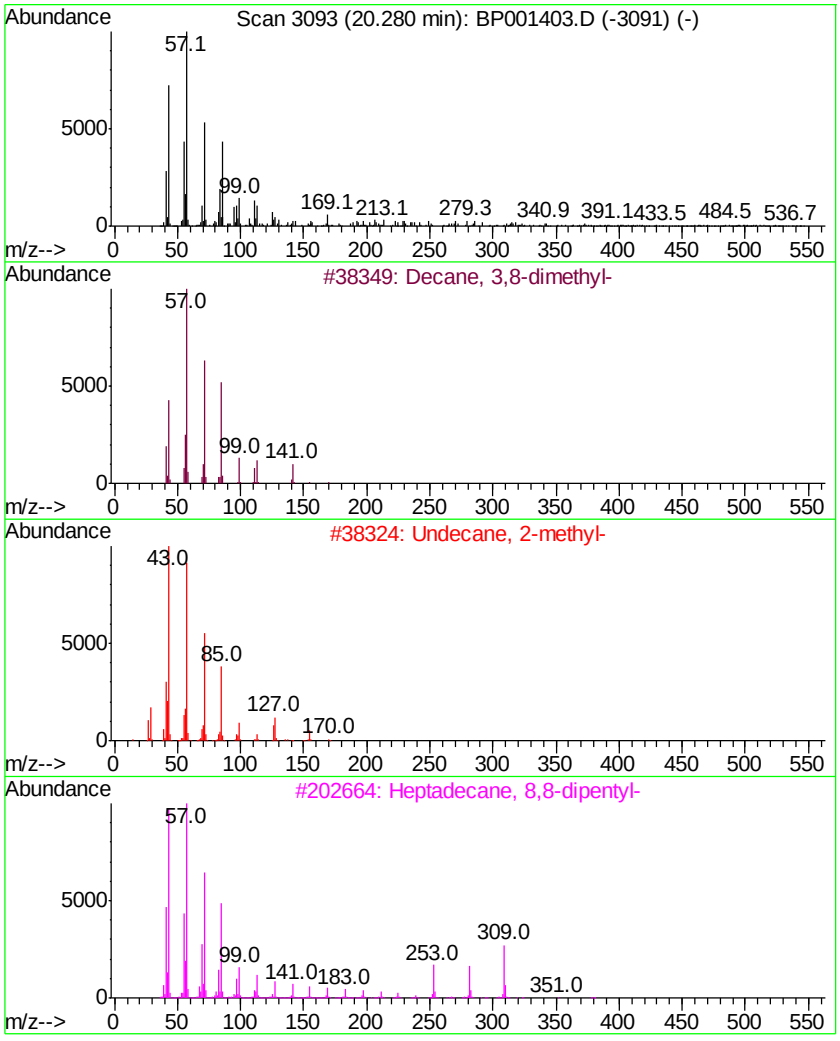
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

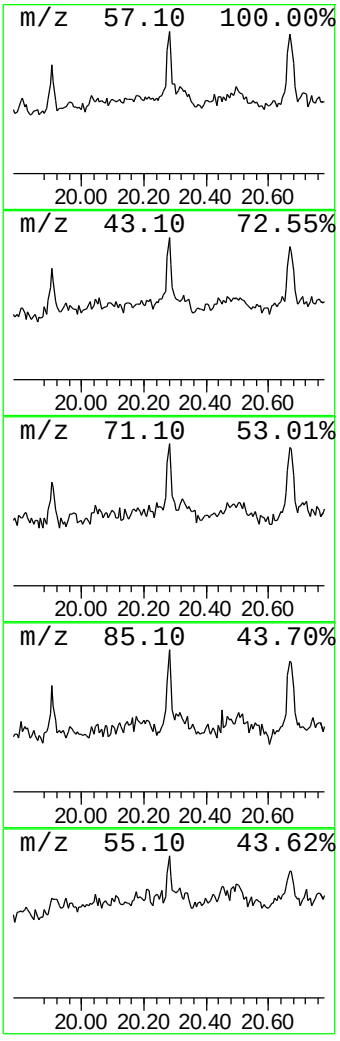
****

Peak Number 10 Decane, 3,8-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.28	2.10 ng	34147	Perylene-d12	21.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	74
2	Undecane, 2-methyl-	170	C12H26	007045-71-8	72
3	Heptadecane, 8,8-dipentyl-	380	C27H56	055282-28-5	72
4	Octadecane	254	C18H38	000593-45-3	72
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

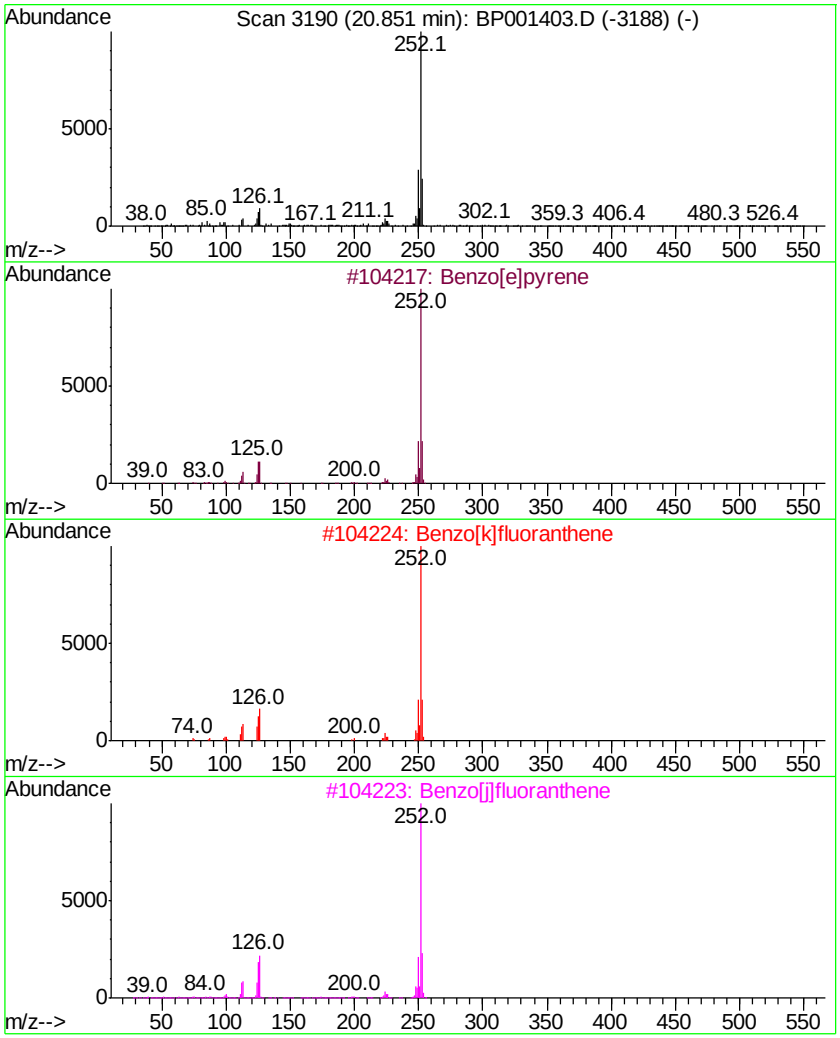
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

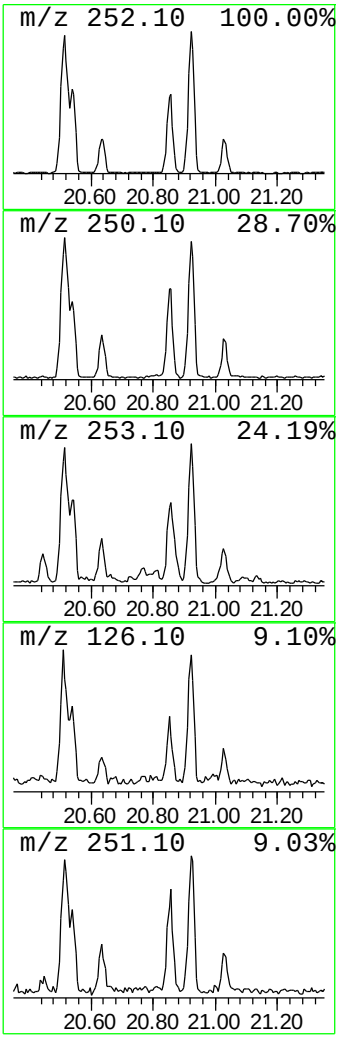
****

Peak Number 11 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.85	7.90 ng	128479	Perylene-d12	21.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	91
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP122419\
Data File : BP001403.D
Acq On : 24 Dec 2019 23:34
Operator : JU
Sample : K6396-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SOIL-DUPLICATE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP121919.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...	5.60	15.0	ng	271277	1	8.29	360876	20.0
unknown7.93	7.93	84.7	ng	1527690	1	8.29	360876	20.0
Phenanthrene, 1-m...	16.34	2.4	ng	53829	4	15.58	449714	20.0
Phenanthrene, 2-m...	16.37	2.9	ng	64985	4	15.58	449714	20.0
n-Hexadecanoic acid	16.47	3.6	ng	80850	4	15.58	449714	20.0
5,16[1',2']:8,13[...	16.77	2.8	ng	62617	4	15.58	449714	20.0
11H-Benzo[b]fluorene	18.22	3.2	ng	108527	5	19.23	669827	20.0
Heptafluorobutyri...	19.10	6.9	ng	232517	5	19.23	669827	20.0
Decane, 3,8-dimet...	20.28	2.1	ng	34147	6	21.00	325187	20.0
Benzo[e]pyrene	20.85	7.9	ng	128479	6	21.00	325187	20.0