LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

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_G\METHODS\8270-BG061719.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	5.609	423	429	443	rVB	319502	541630	1.03%	0.289%
2	7.224	697	704	715	rBV	378888	674251	1.29%	0.360%
3	7.600	761	768	774	rBV	364276	603977	1.15%	0.322%
4	13.329	1736	1743	1750	rVB	659711	1001486	1.91%	0.534%
5	13.875	1818	1836	1853	rBV3	996489	2391658	4.56%	1.275%
6	16.196	2217	2231	2238	rVB5	660655	1536759	2.93%	0.820%
7	16.843	2333	2341	2356	rBV2	504425	1498487	2.86%	0.799%
8	17.172	2392	2397	2403	rVV	438423	688362	1.31%	0.367%
9	17.248	2404	2410	2428	rVB2	457218	1057898	2.02%	0.564%
10	17.454	2439	2445	2461	rBV3	334580	929900	1.77%	0.496%
11	17.783	2493	2501	2512	rBV	468870	1130594	2.16%	0.603%
12	18.341	2587	2596	2602	rBV	2041286	3830086	7.30%	2.043%
13	19.316	2758	2762	2768	rBV	2072816	2754250	5.25%	1.469%
14	19.457	2779	2786	2789	rBV	1184954	2389452	4.56%	1.274%
15	19.510	2789	2795	2805	rVV	2911874	5457685	10.41%	2.911%
16	19.592	2805	2809	2822	rVB	1069977	1540984	2.94%	0.822%
17	20.051	2882	2887	2892	rBV	1096172	1391805	2.65%	0.742%
18	21.326	3100	3104	3119	rVB	525118	923028	1.76%	0.492%
19	22.495	3297	3303	3305	rBV	1194224	1875151	3.58%	1.000%
20	22.530	3305	3309	3326	rVB	2662468	5080983	9.69%	2.710%
21	23.188	3413	3421	3427	rVV4	626831	1514302	2.89%	0.808%
22	23.264	3429	3434	3440	rVB2	294507	601366	1.15%	0.321%
23	23.558	3478	3484	3491	rBV2	371968	728534	1.39%	0.389%
24	24.093	3553	3575	3579	rBV	13714588	52431302	100.00%	27.961%
25	24.134	3579	3582	3595	rVB2	839320	1620475	3.09%	0.864%
26	24.727	3673	3683	3697	rVB	2124555	5566768	10.62%	2.969%
27	24.986	3718	3727	3734	rVB	774370	1967975	3.75%	1.050%
28	25.532	3811	3820	3831	rVB2	948721	2670361	5.09%	1.424%
29	25.667	3836	3843	3856	rVB3	315944	955812	1.82%	0.510%
30	26.255	3912	3943	3949	rBV	9937792	48510070	92.52%	25.870%
31	26.331	3951	3956	3967	rVB3	209952	599827	1.14%	0.320%
32	26.813	4032	4038	4044	rBV3	203018	572670	1.09%	0.305%
33	26.913	4045	4055	4069	rVB2	663073	2633673	5.02%	1.405%
34	27.524	4151	4159	4172	rVB4	353425	1305557	2.49%	0.696%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BRANCH-LEAVES

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_G\METHODS\8270-BG061719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	28.423	4291	4312	4325	rVB	2295449	10076660	19.22%	5.374%
36	29.234	4438	4450	4461	rBV2	538999	2330164	4.44%	1.243%
37	30.538	4650	4672	4673	rBV2	1373202	5453926	10.40%	2.909%
38	31.402	4804	4819	4837	rVB8	471639	2602980	4.96%	1.388%
39	31.754	4865	4879	4902	rVB6	532072	3009534	5.74%	1.605%
40	32.601	5001	5023	5030	rBV4	836429	5063122	9.66%	2.700%

Sum of corrected areas: 187513504

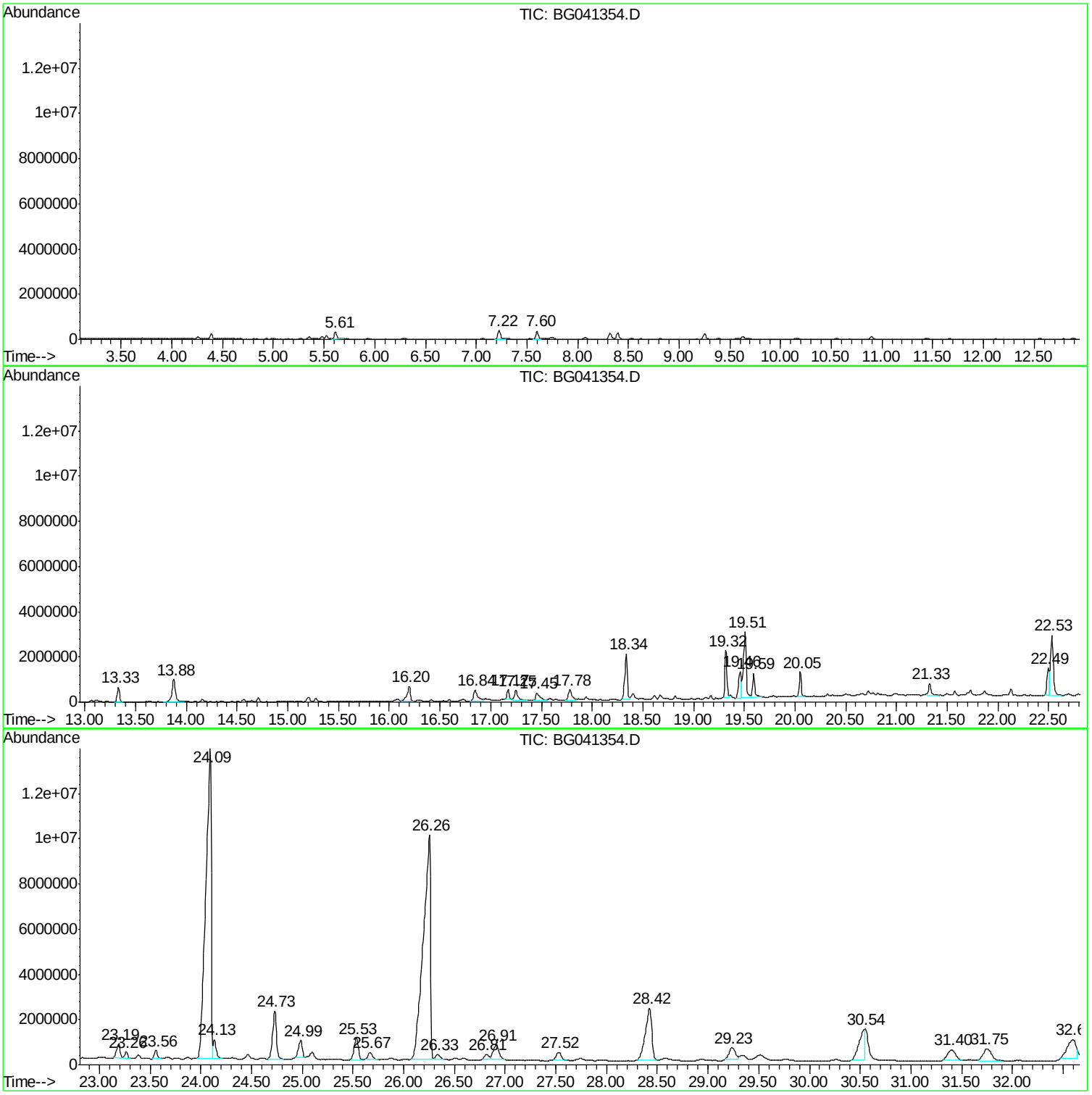
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.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_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

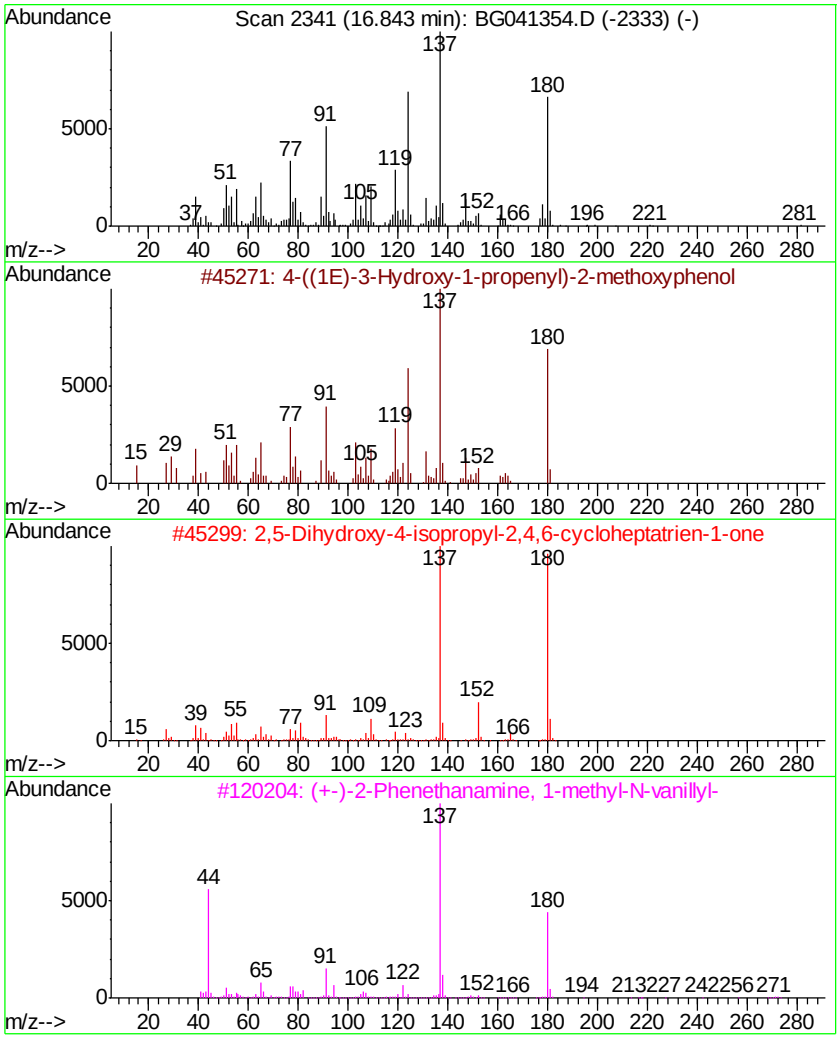
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

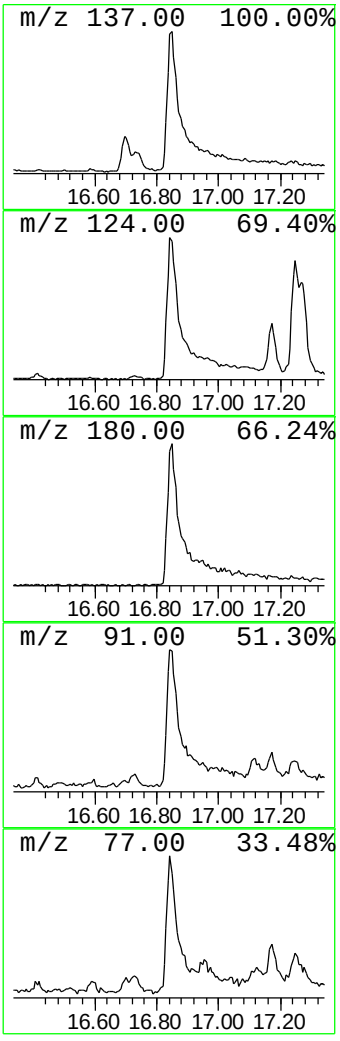
****

Peak Number 1 4-((1E)-3-Hydroxy-1-propeny... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.84	32.23 ng	1498490	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-((1E)-3-Hydroxy-1-propenyl)-2-...	180	C10H12O3	1000297-95-5	98
2	2,5-Dihydroxy-4-isopropyl-2,4,6-...	180	C10H12O3	054755-56-5	43
3	(+-)-2-Phenethanamine, 1-methyl-...	271	C17H21NO2	1000127-89-8	38
4	(-)-R-Phenethanamine, 1-methyl-N...	271	C17H21NO2	1000127-90-4	38
5	1,2,4-Cyclopentanetrione, 3-(2-p...	180	C10H12O3	054644-27-8	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

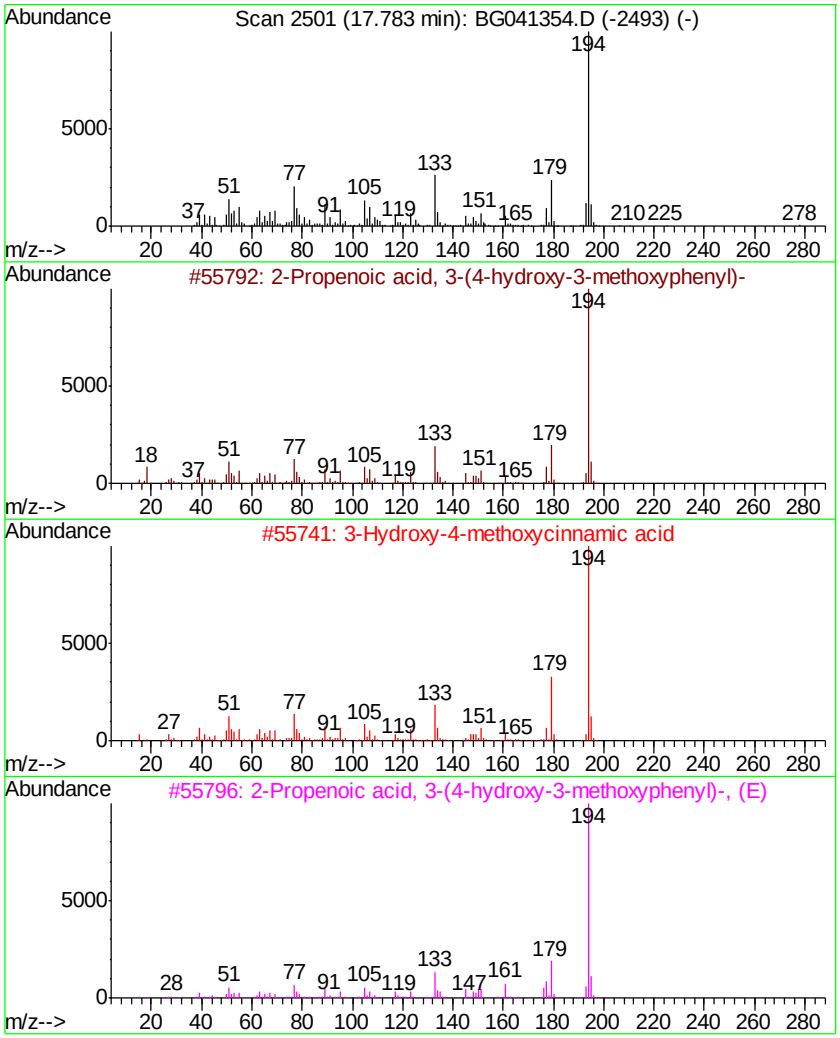
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

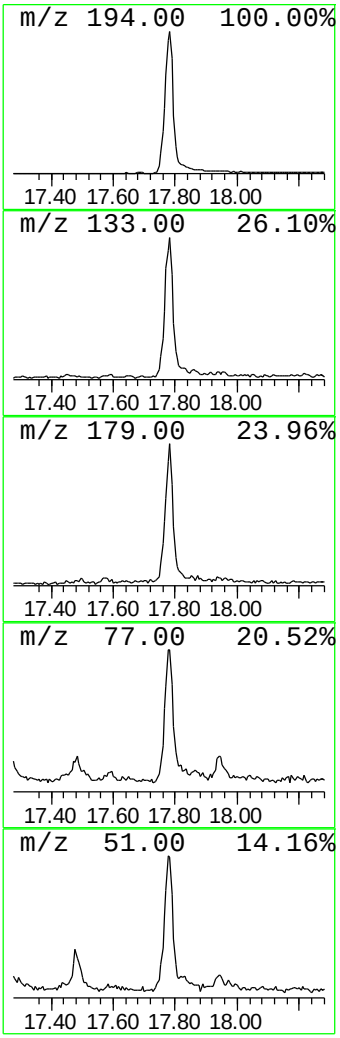
****

Peak Number 2 2-Propenoic acid, 3-(4-hydr... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	24.32 ng	1130590	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 3-(4-hydroxy-3...	194	C10H10O4	001135-24-6	93
2	3-Hydroxy-4-methoxycinnamic acid	194	C10H10O4	000537-73-5	91
3	2-Propenoic acid, 3-(4-hydroxy-3...	194	C10H10O4	000537-98-4	81
4	4-Acetoxy-3-methoxycinnamic acid	236	C12H12O5	002596-47-6	78
5	p-[Methylthio]cinnamic acid	194	C10H10O2S	1000227-29-8	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

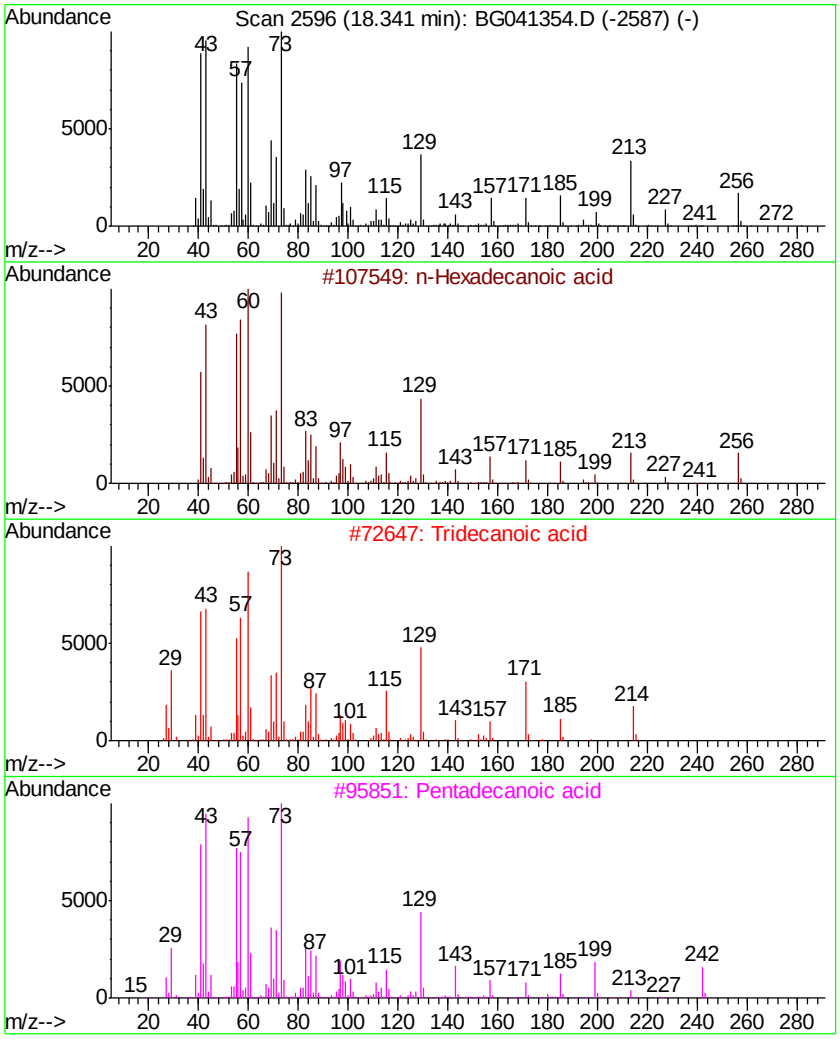
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

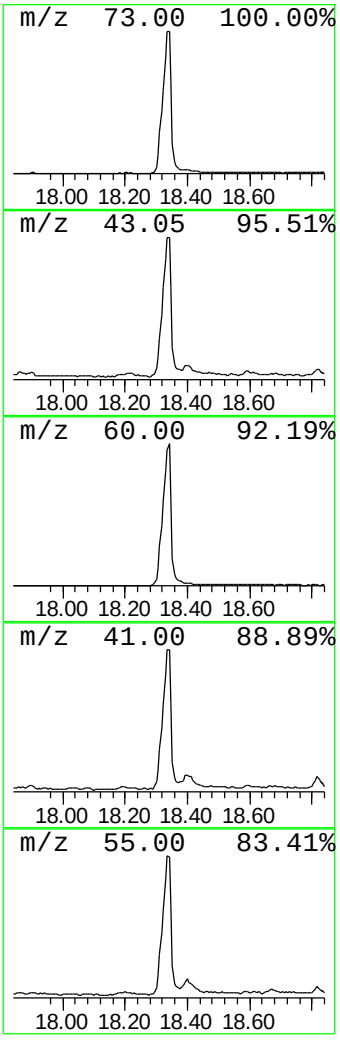
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	82.38 ng	3830090	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Undecanoic acid	186	C11H22O2	000112-37-8	76
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

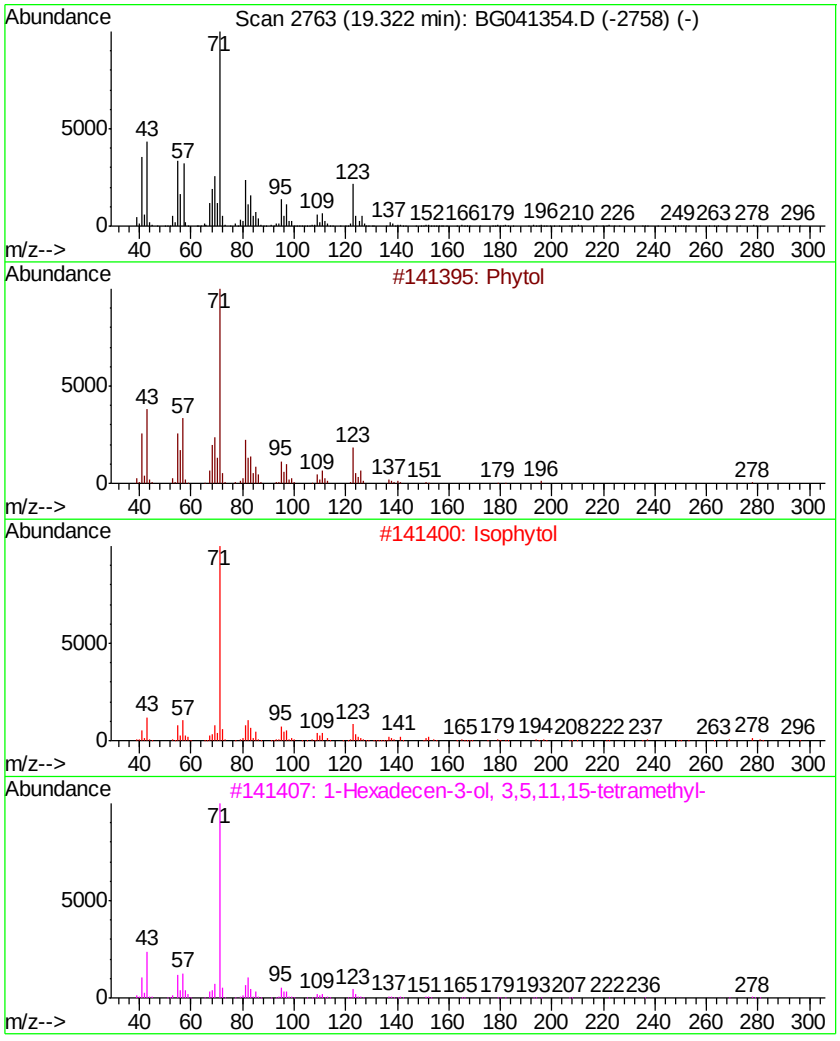
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

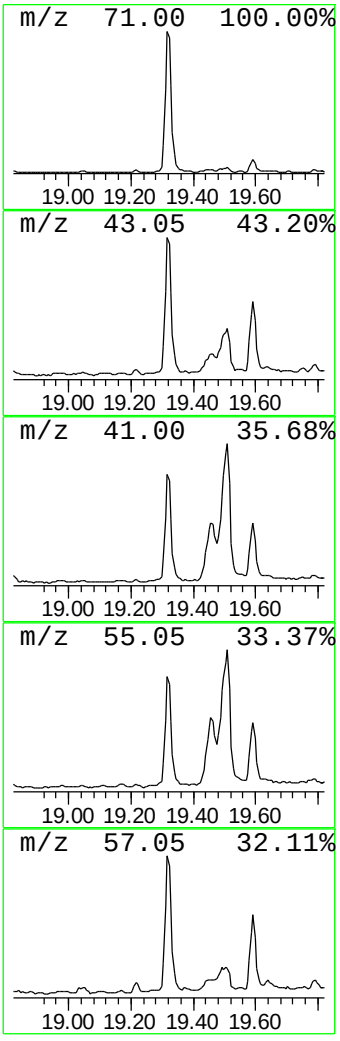
****

Peak Number 4 Phytol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.32	59.24 ng	2754250	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phytol	296	C20H40O	000150-86-7	91
2	Isophytol	296	C20H40O	000505-32-8	76
3	1-Hexadecen-3-ol, 3,5,11,15-tetr...	296	C20H40O	1000262-55-5	53
4	Butyric acid, 3-pentadecyl ester	298	C19H38O2	1000280-57-3	47
5	1-Butoxy-2-methyl-2-butene (E)-	142	C9H18O	1000159-08-4	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

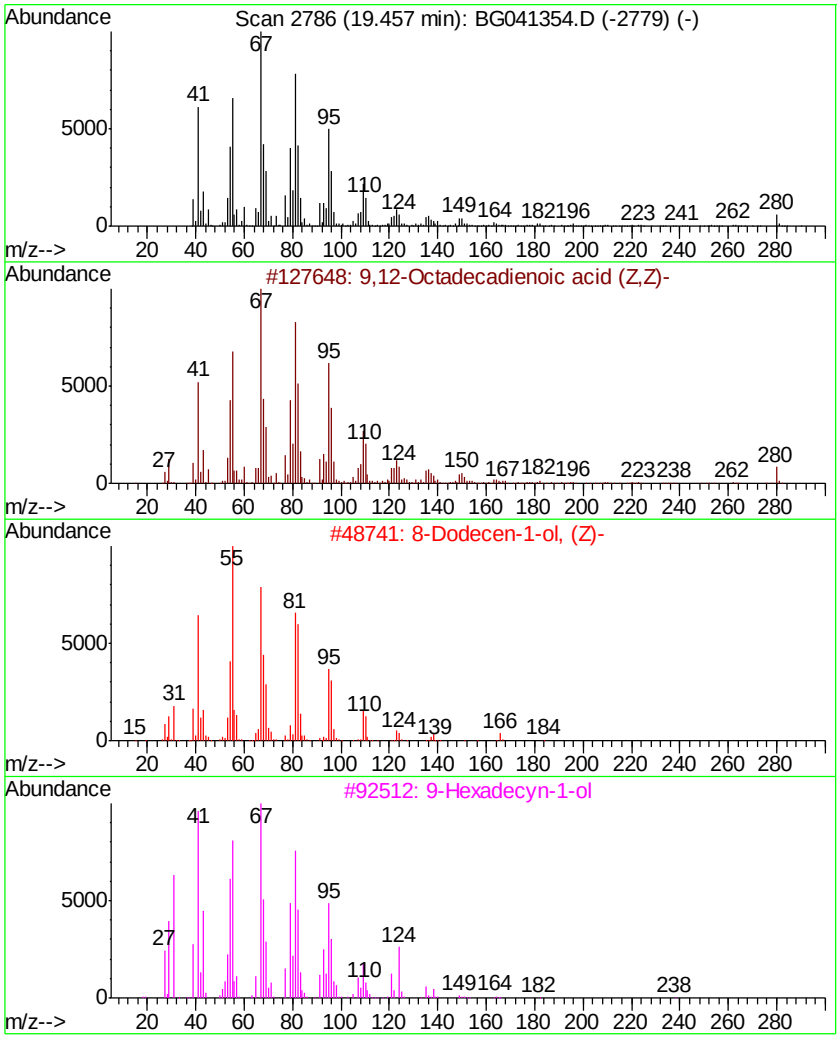
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

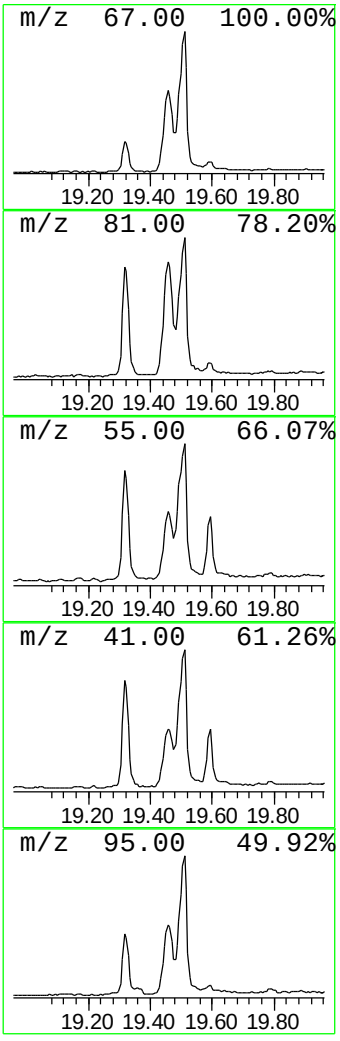
****

Peak Number 5 9,12-Octadecadienoic acid (... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.46	51.39 ng	2389450	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-	280	C18H32O2	000060-33-3	99
2	8-Dodecen-1-ol, (Z)-	184	C12H24O	040642-40-8	90
3	9-Hexadecyn-1-ol	238	C16H30O	1000342-40-3	90
4	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	81
5	Cyclodecene	138	C10H18	003618-12-0	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

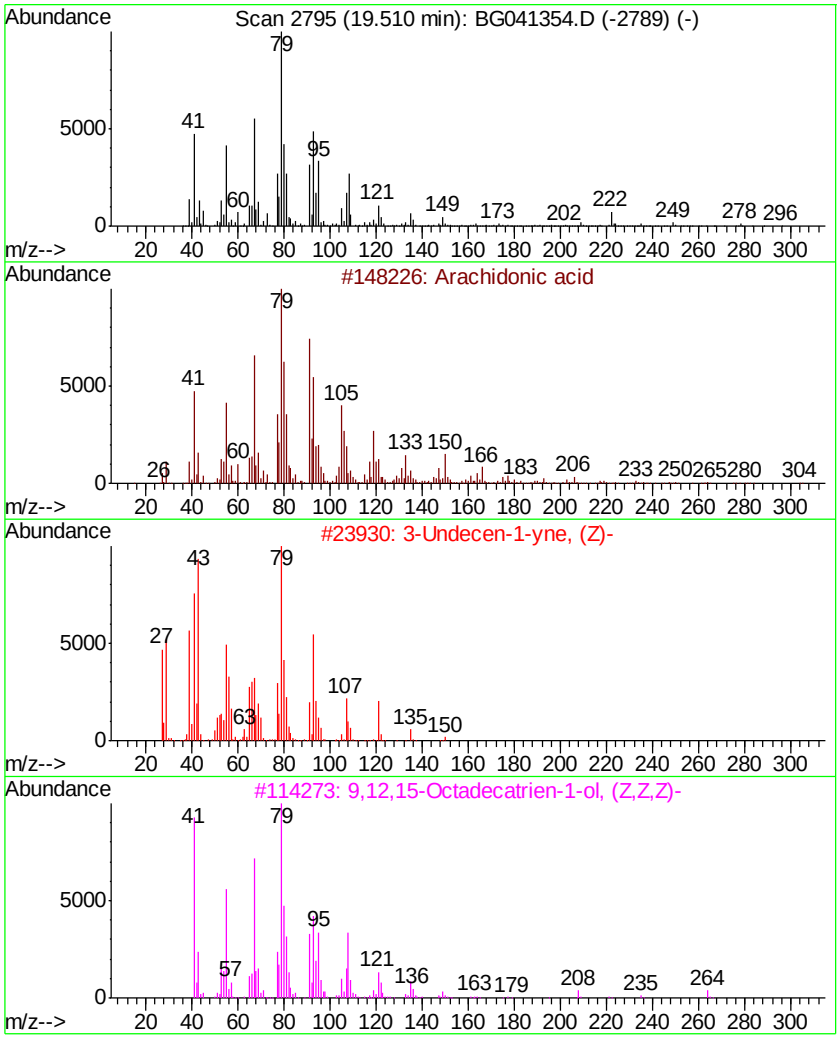
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

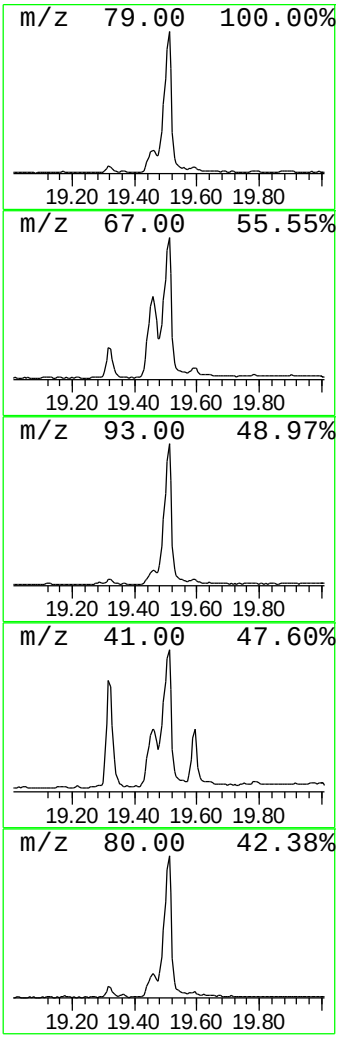
****

Peak Number 6 Arachidonic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.51	117.38 ng	5457690	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Arachidonic acid	304	C20H32O2	000506-32-1	80
2	3-Undecen-1-yne, (Z)-	150	C11H18	074744-32-4	64
3	9,12,15-Octadecatrien-1-ol, (Z,Z...	264	C18H32O	000506-44-5	64
4	9,12,15-Octadecatrienoic acid, (...	278	C18H30O2	000463-40-1	60
5	1,5-Cyclodecadiene, (E,Z)-	136	C10H16	001124-78-3	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

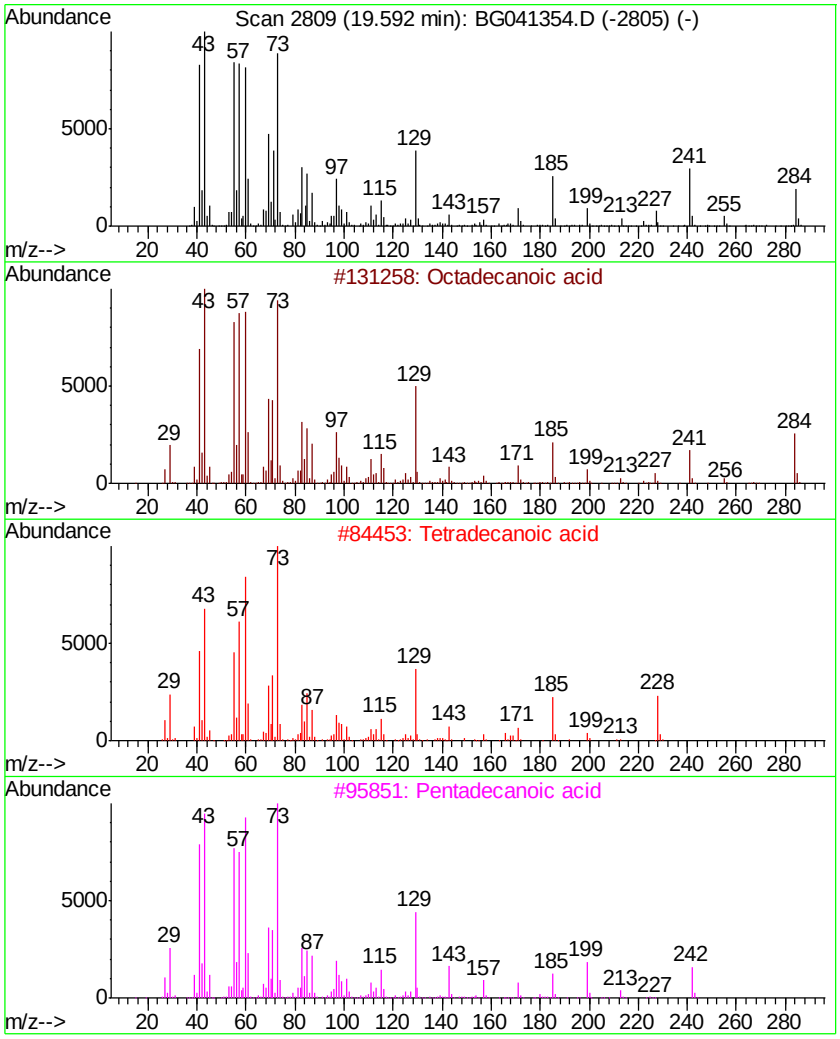
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

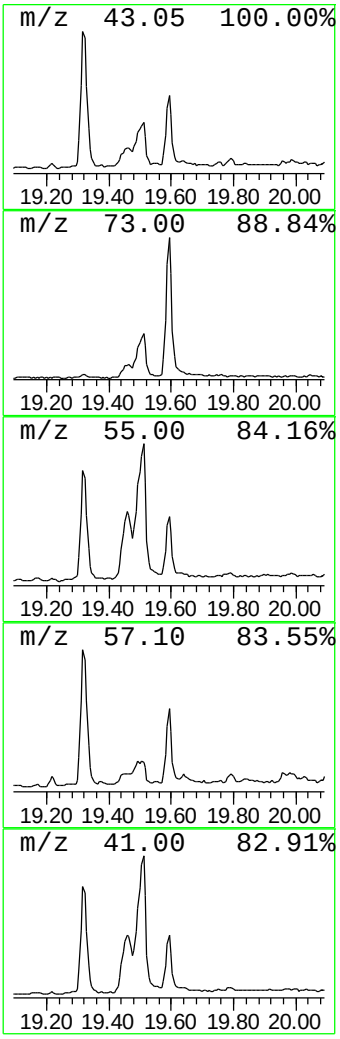
****

Peak Number 7 Octadecanoic acid Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.59	33.14 ng	1540980	Phenanthrene-d10	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	72
4	Tridecanoic acid	214	C13H26O2	000638-53-9	68
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

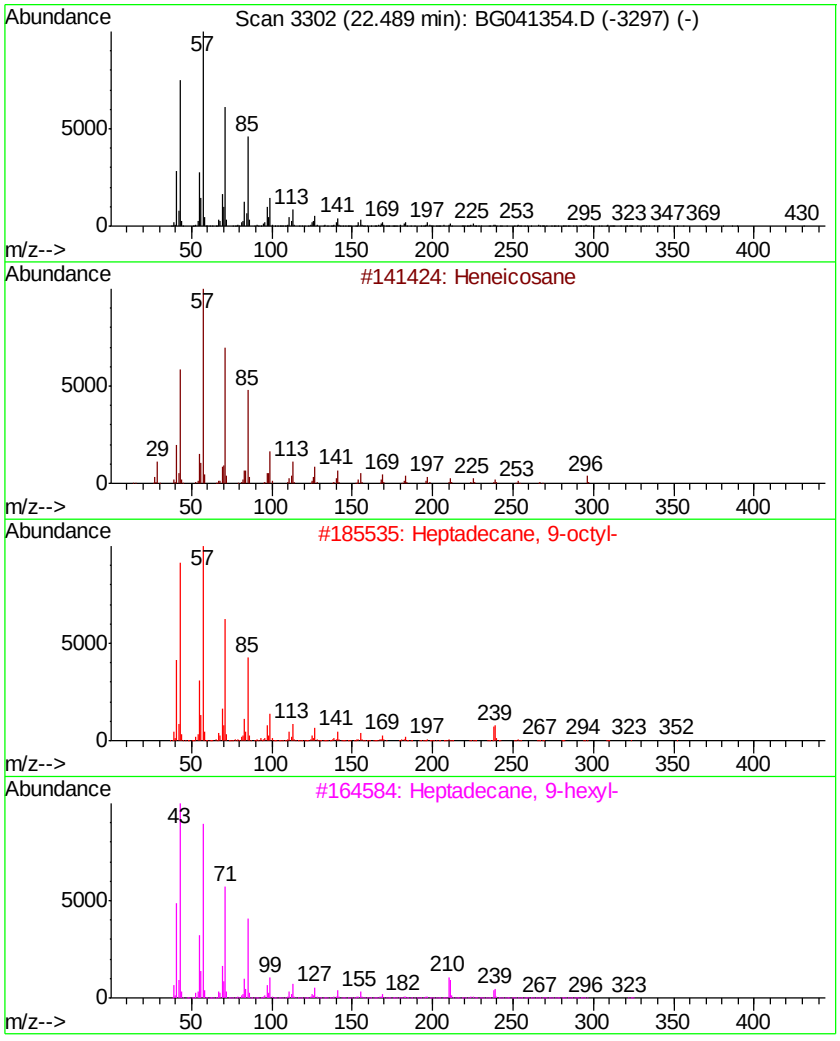
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

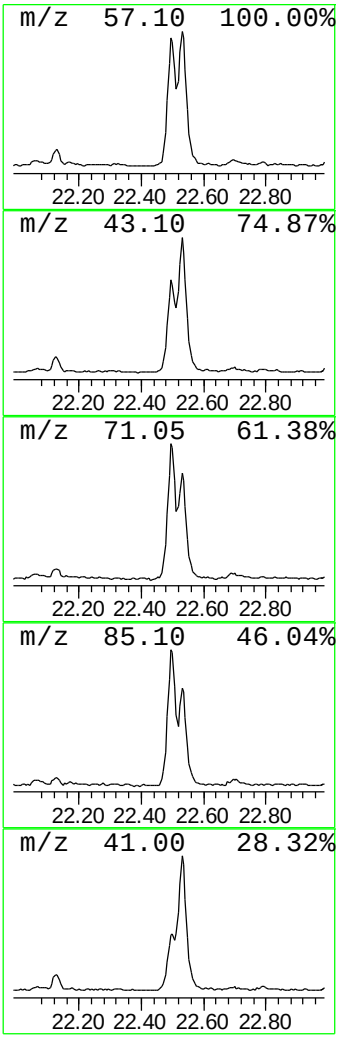
****

Peak Number 8 Heneicosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.49	40.63 ng	1875150	Chrysene-d12	21.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	97
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3	Heptadecane, 9-hexyl-	324	C23H48	055124-79-3	94
4	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	94
5	Octadecane, 2-methyl-	268	C19H40	001560-88-9	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

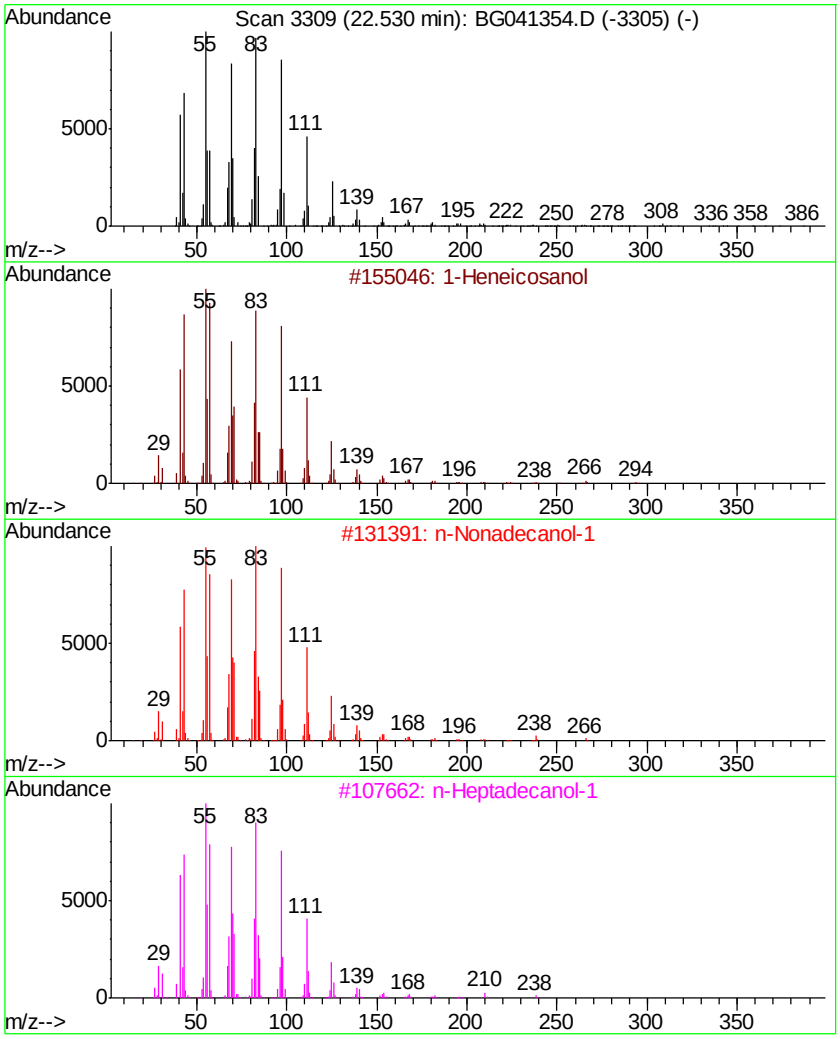
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

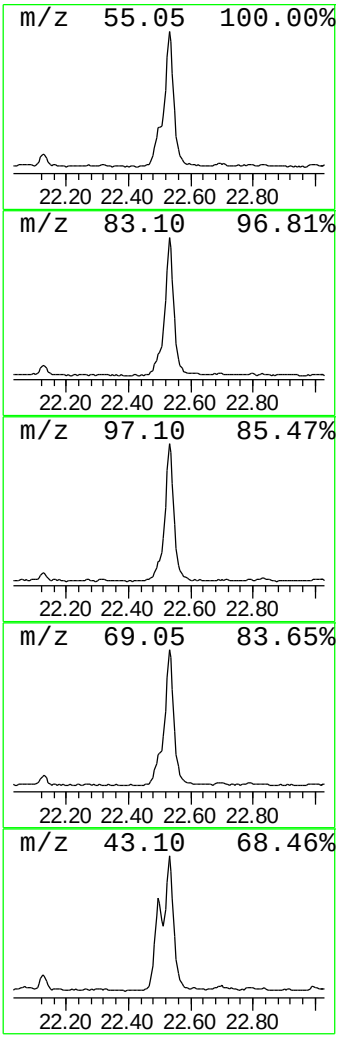
****

Peak Number 9 1-Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.53	110.09 ng	5080980	Chrysene-d12	21.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	94
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	91
3	n-Heptadecanol-1	256	C17H36O	001454-85-9	72
4	Behenic alcohol	326	C22H46O	000661-19-8	62
5	Cyclopentane, undecyl-	224	C16H32	006785-23-5	59





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

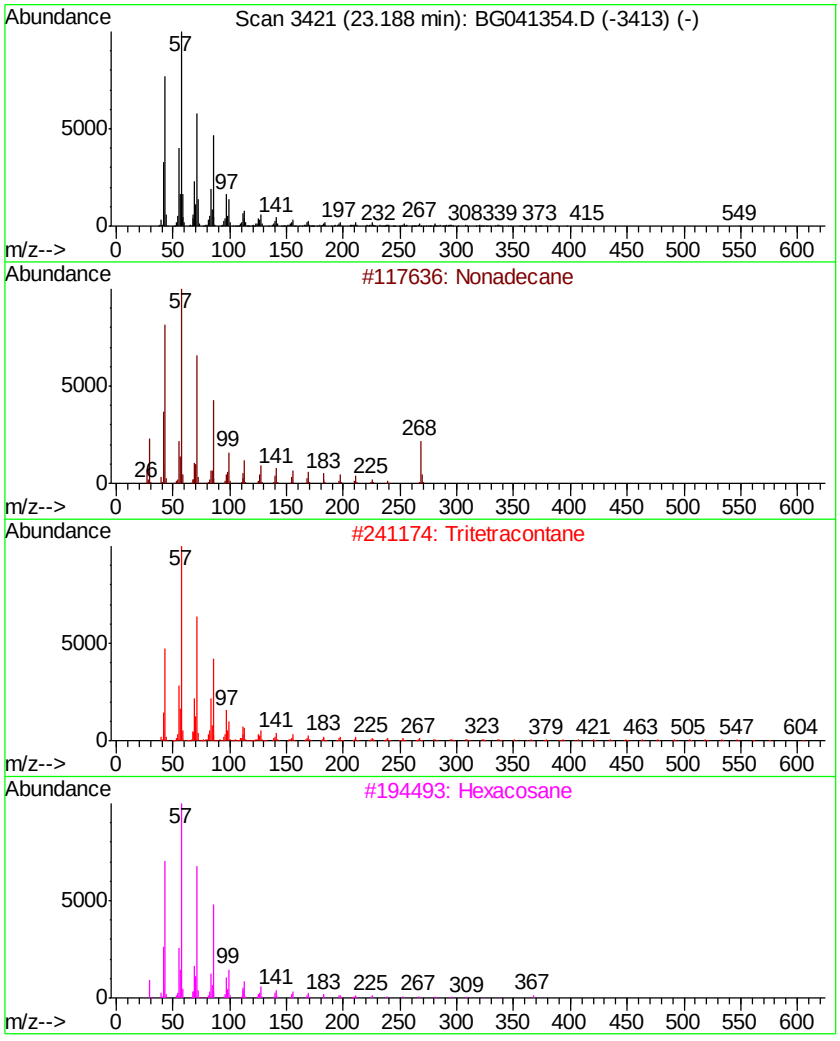
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

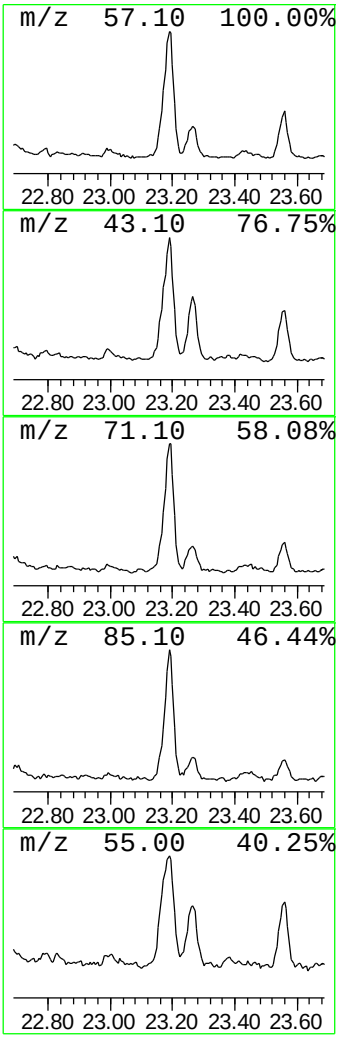
****

Peak Number 10 Nonadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.19	32.81 ng	1514300	Chrysene-d12	21.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	90
2	Tritetracontane	605	C43H88	007098-21-7	87
3	Hexacosane	366	C26H54	000630-01-3	87
4	Octacosane	394	C28H58	000630-02-4	87
5	Tetracosane	338	C24H50	000646-31-1	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

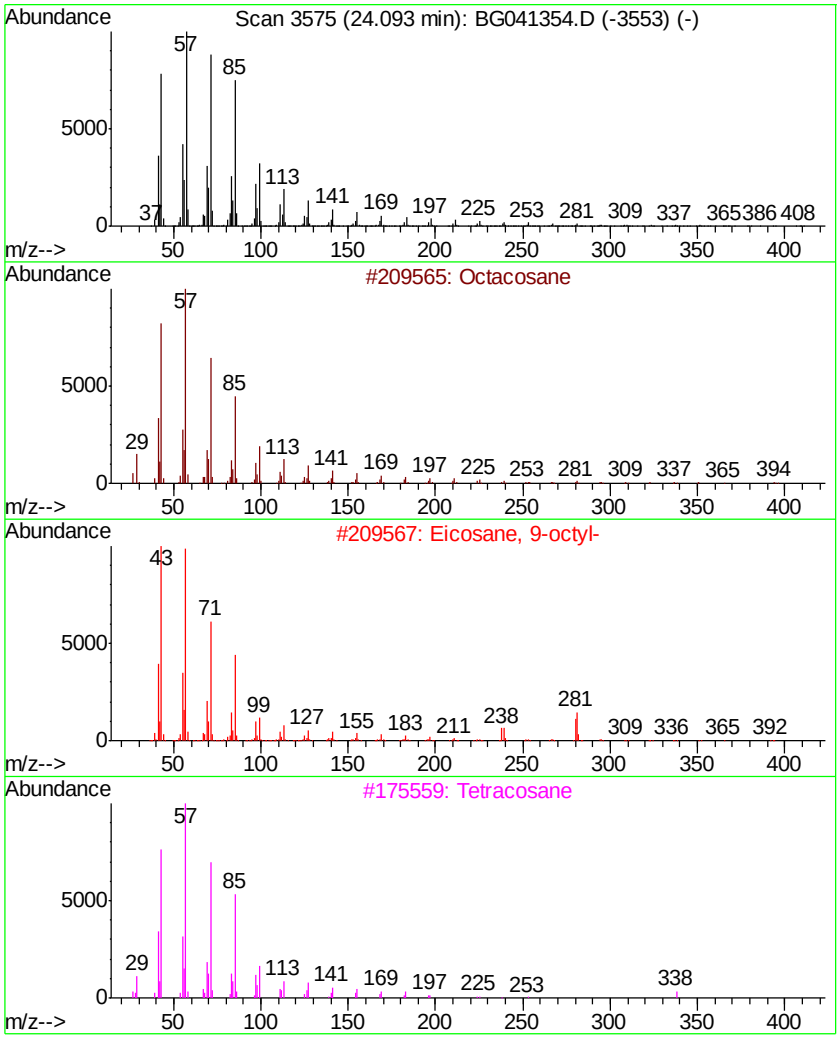
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

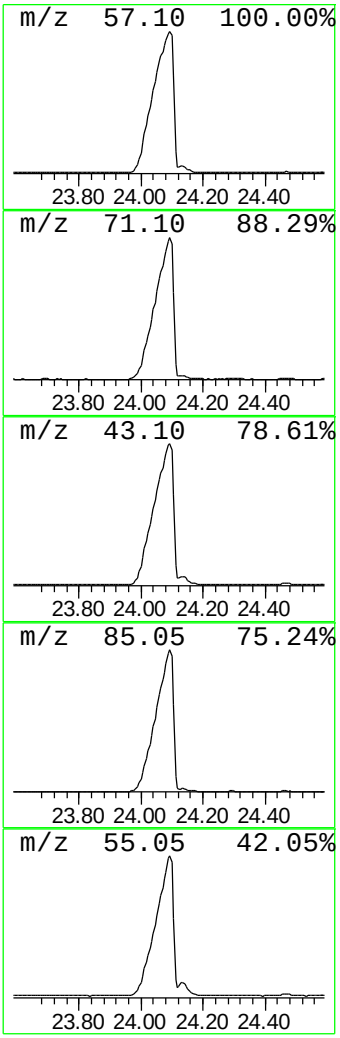
****

Peak Number 11 Octacosane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.09	532.85 ng	52431300	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	95
2	Eicosane, 9-octyl-	394	C28H58	013475-77-9	94
3	Tetracosane	338	C24H50	000646-31-1	91
4	2-methyloctacosane	408	C29H60	1000376-72-8	91
5	Hentriacontane	437	C31H64	000630-04-6	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

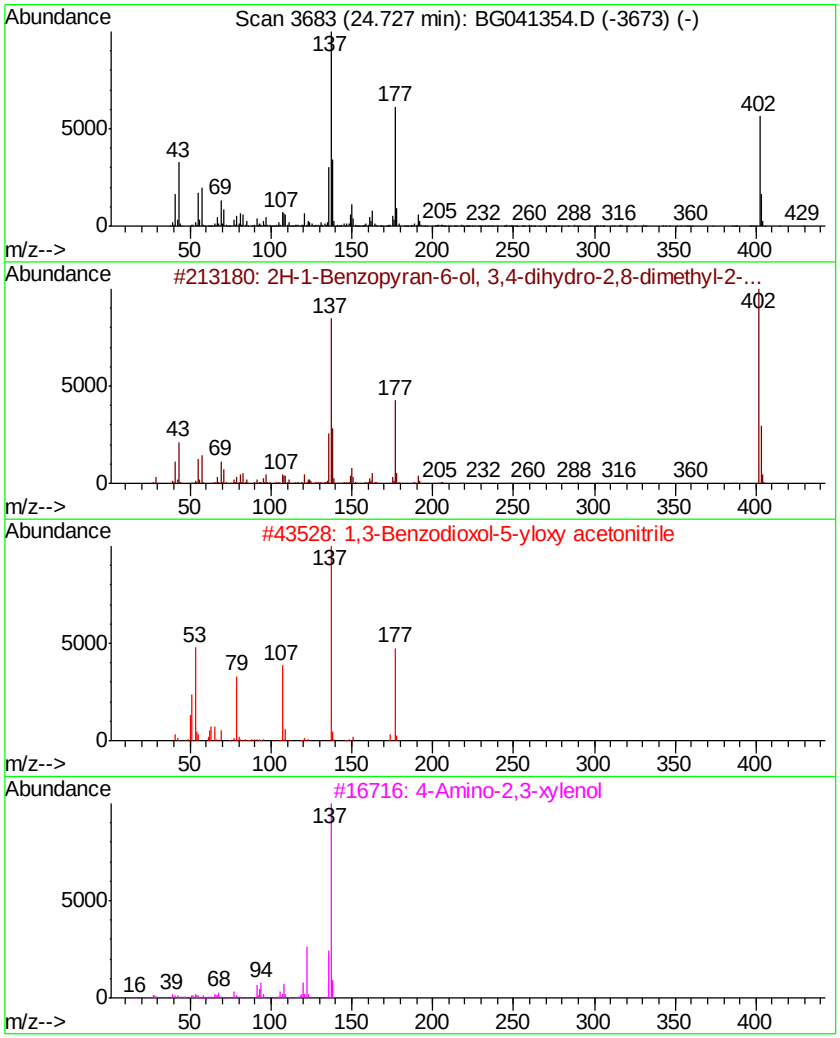
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

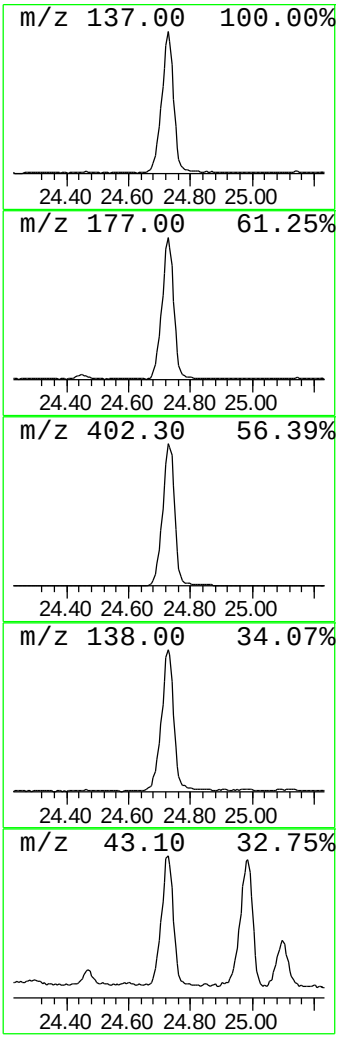
****

Peak Number 12 2H-1-Benzopyran-6-ol, 3,4-d... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.73	56.57 ng	5566770	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-1-Benzopyran-6-ol, 3,4-dihydr...	402	C27H46O2	000119-13-1	99
2	1,3-Benzodioxol-5-yloxy acetonit...	177	C9H7NO3	072955-89-6	37
3	4-Amino-2,3-xylenol	137	C8H11NO	003096-69-3	35
4	6-Amino-2,4-dimethylphenol	137	C8H11NO	041458-65-5	35
5	3-Buten-2-one, 4-(2,6,6-trimethy...	192	C13H20O	014901-07-6	11





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

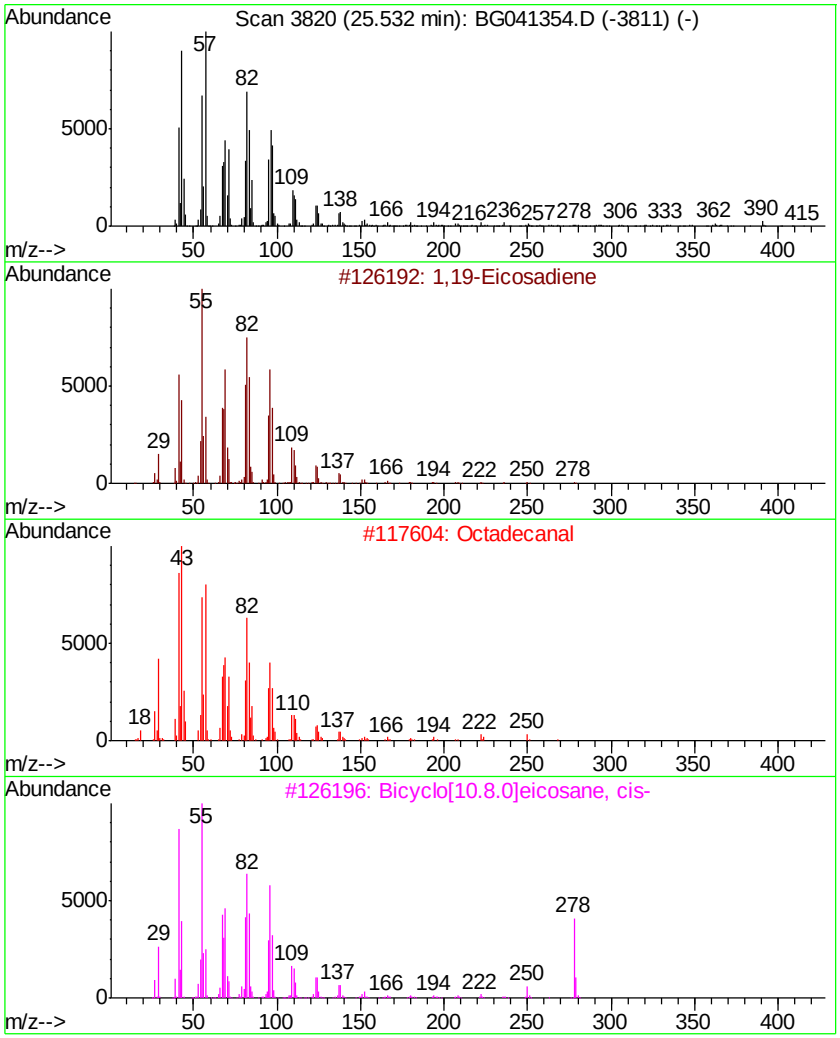
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

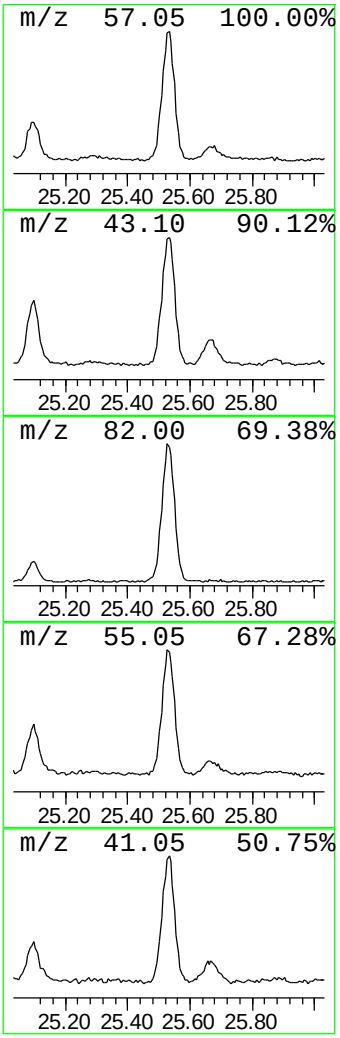
****

Peak Number 13 1,19-Eicosadiene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.53	27.14 ng	2670360	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	93
2	Octadecanal	268	C18H36O	000638-66-4	93
3	Bicyclo[10.8.0]eicosane, cis-	278	C20H38	1000155-82-2	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
5	Bicyclo[10.8.0]eicosane, (E)-	278	C20H38	1000155-85-0	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

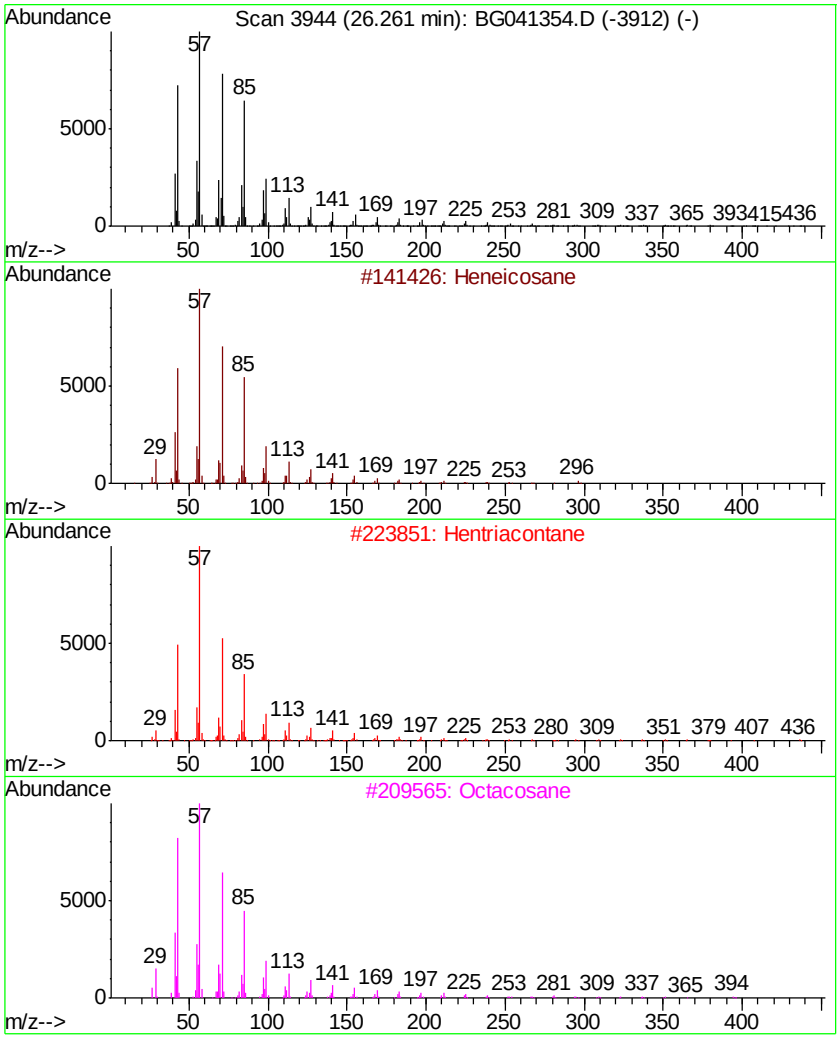
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

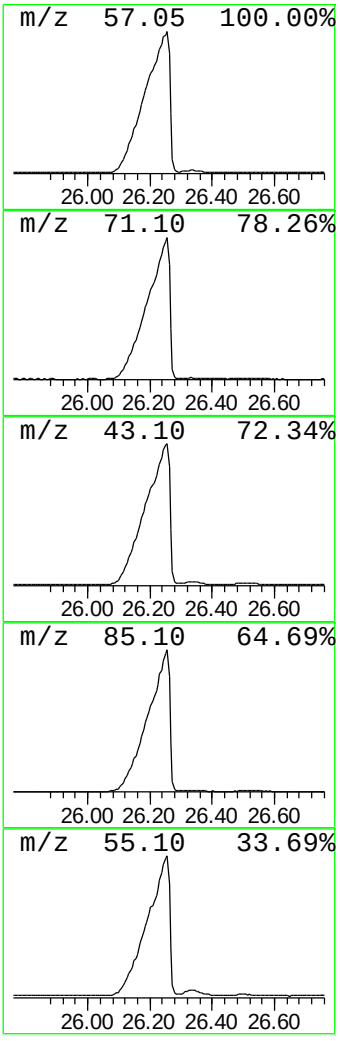
****

Peak Number 14 Hentriacontane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.26	493.00 ng	48510100	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	94
2	Hentriacontane	437	C31H64	000630-04-6	90
3	Octacosane	394	C28H58	000630-02-4	90
4	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	89
5	Hexacosane	366	C26H54	000630-01-3	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

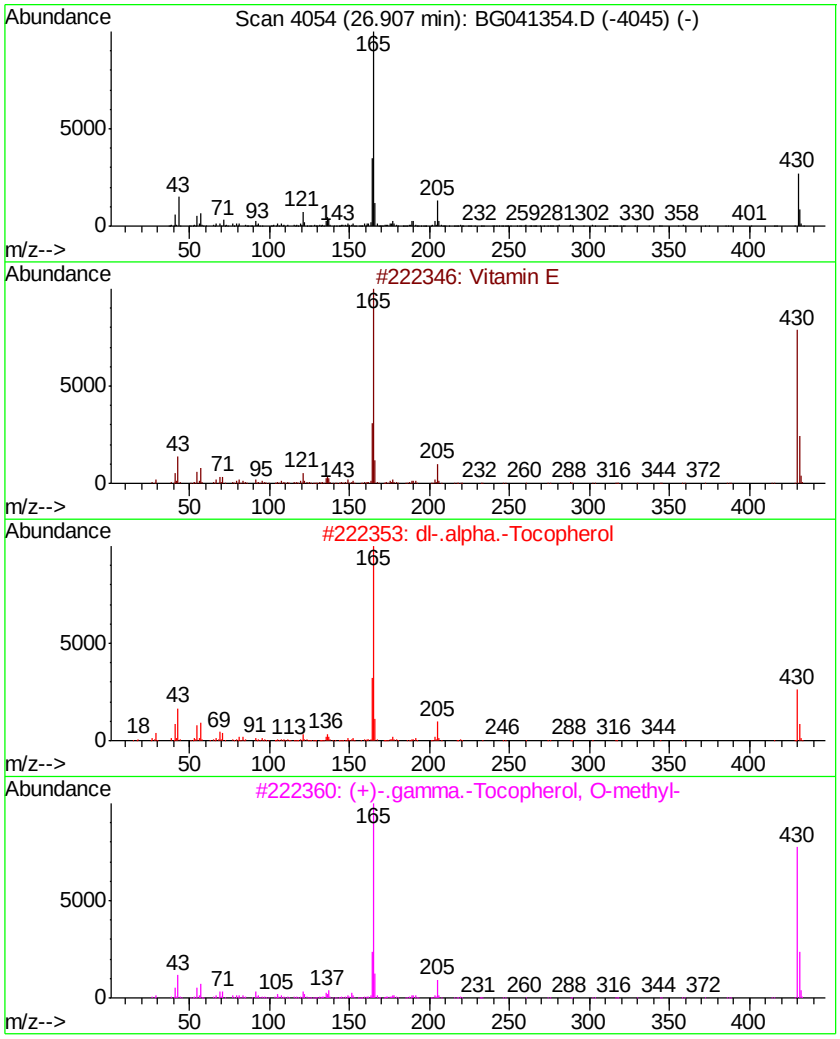
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

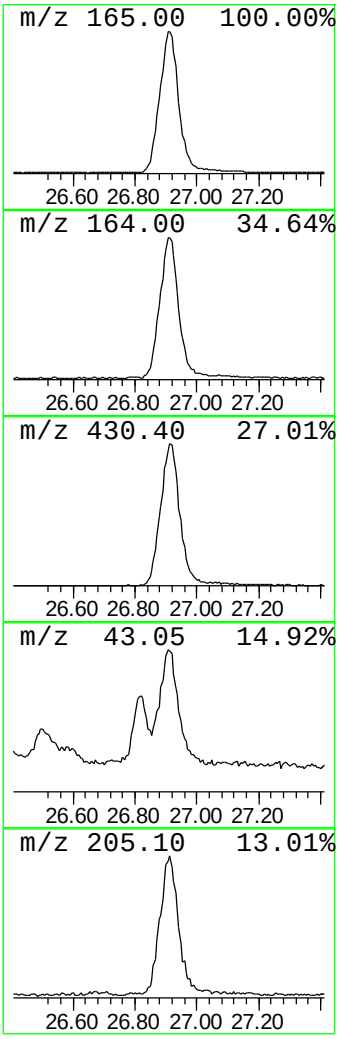
****

Peak Number 15 Vitamin E Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.91	26.77 ng	2633670	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Vitamin E	430	C29H50O2	000059-02-9	99
2	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	96
3	(+)-.gamma.-Tocopherol, O-methyl-	430	C29H50O2	1000374-72-2	94
4	.alpha.-Tocopherol-.beta.-D-mann...	592	C35H60O7	1000156-68-2	64
5	7-Methyl-8-oxo-1,2,3,4-tetrahydr...	165	C8H11N3O	026955-10-2	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

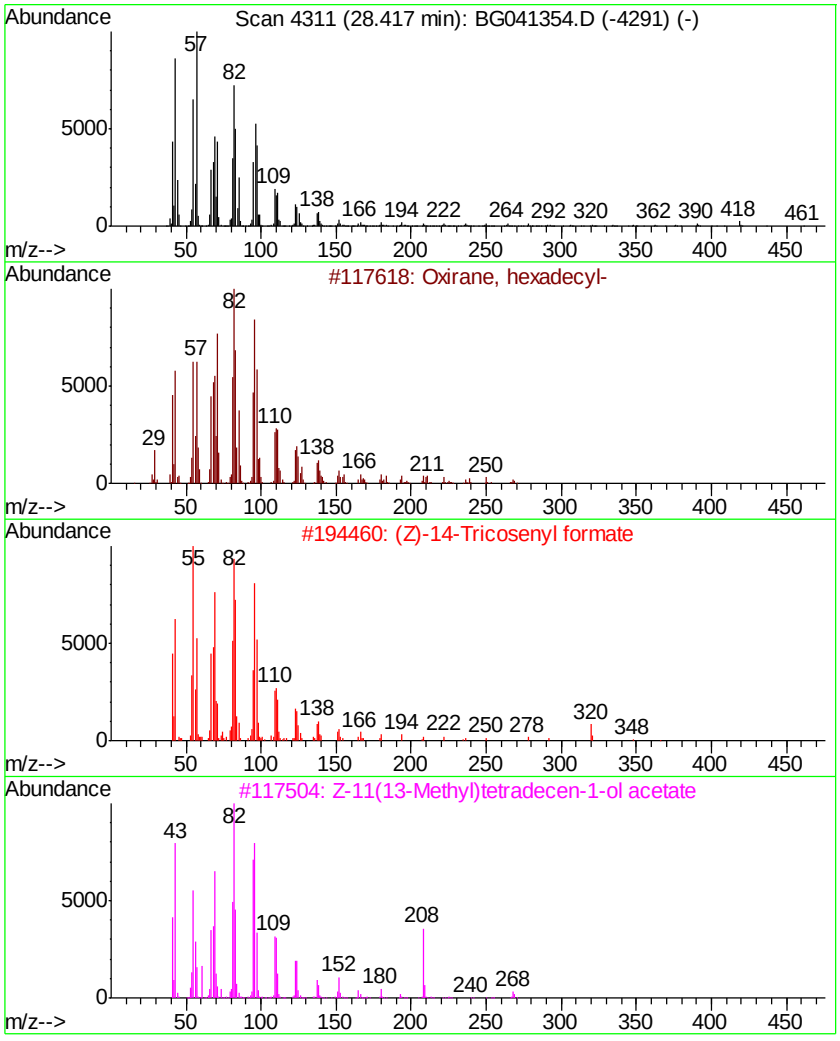
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

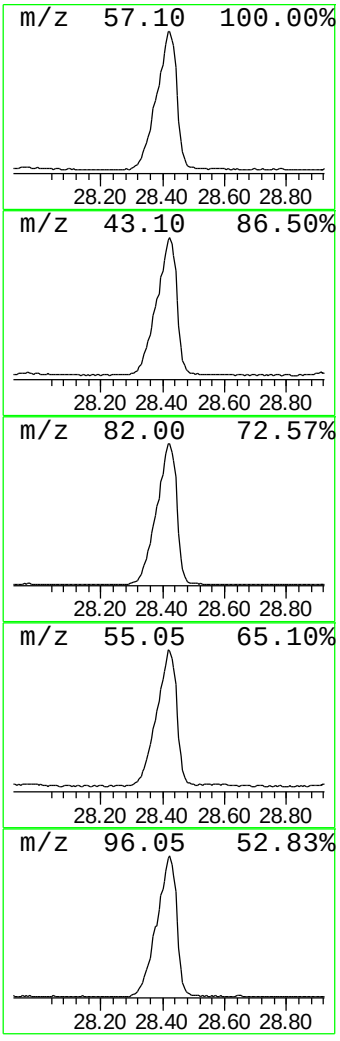
****

Peak Number 16 Oxirane, hexadecyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
28.42	102.41 ng	10076700	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	98
2	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	89
3	Z-11(13-Methyl)tetradecen-1-ol a...	268	C17H32O2	1000131-33-3	87
4	Pentadecanal-	226	C15H30O	002765-11-9	87
5	16-Octadecenal	266	C18H34O	056554-87-1	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

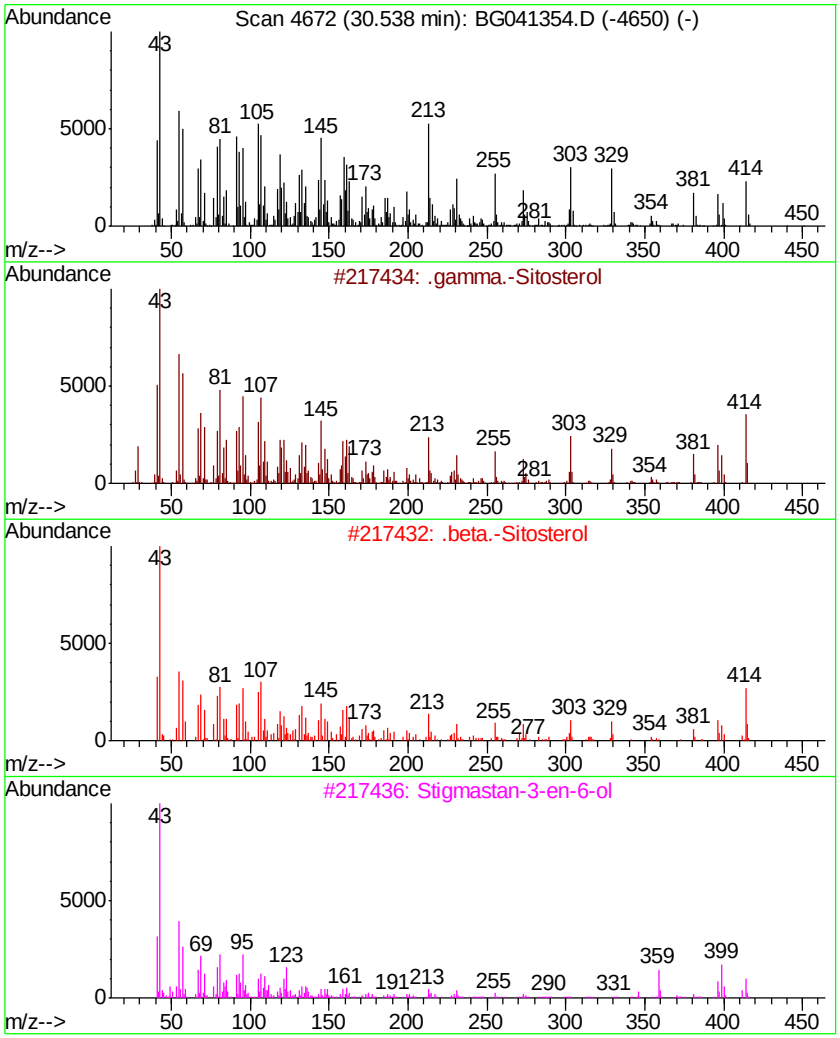
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

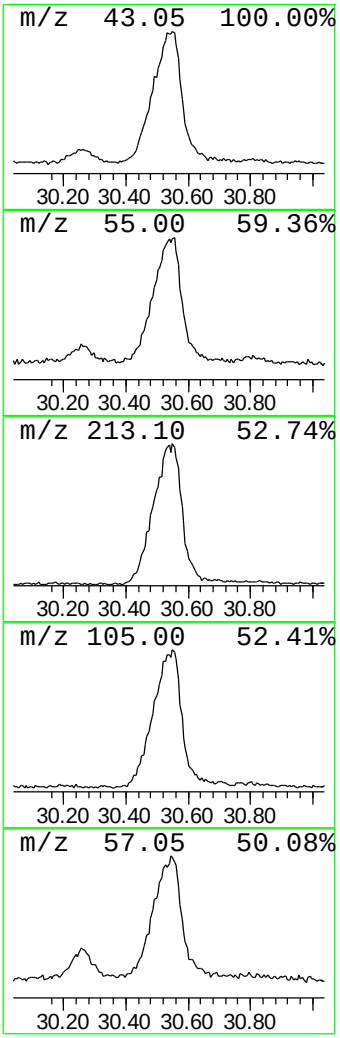
****

Peak Number 17 .gamma.-Sitosterol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.54	55.43 ng	5453930	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	Stigmastan-3-en-6-ol	414	C29H50O	1000214-19-7	25
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	25
5	22,26-Oxido-4,17-cholestadien-3....	414	C27H42O3	1000252-80-4	20





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

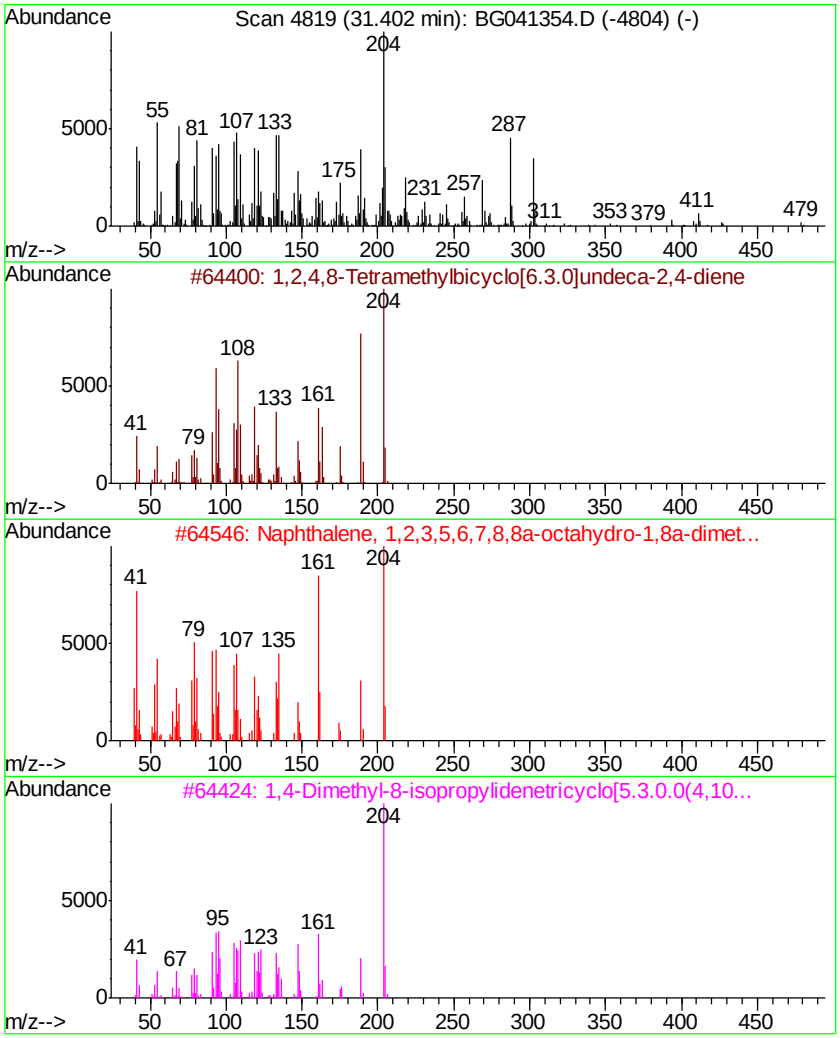
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

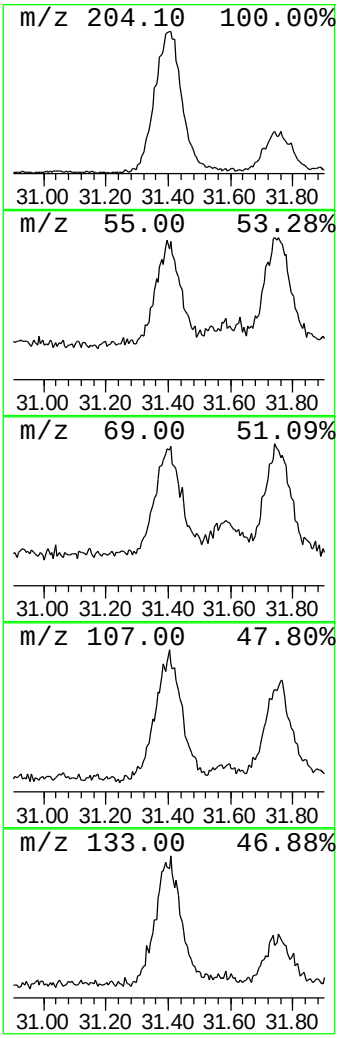
****

Peak Number 18 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.40	26.45 ng	2602980	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	70
2	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	58
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	46
4	Coumarin, 3,4-dihydro-4,4,6,8-te...	204	C13H16O2	249629-60-5	38
5	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

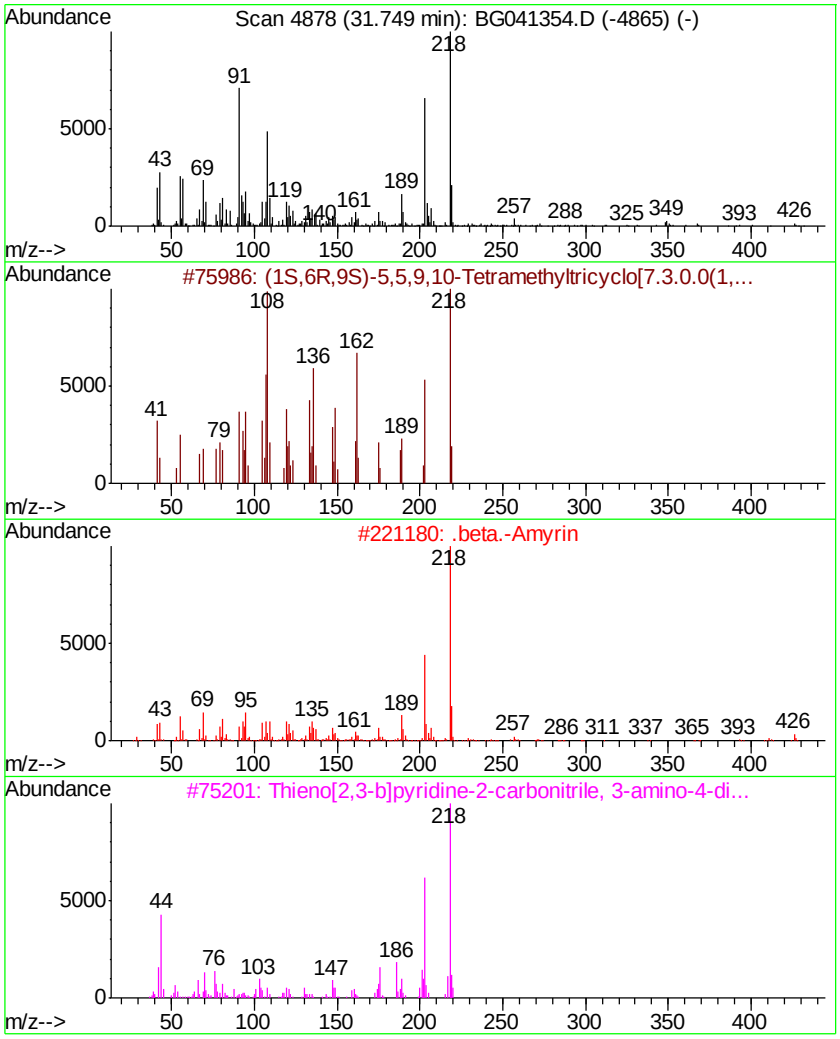
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

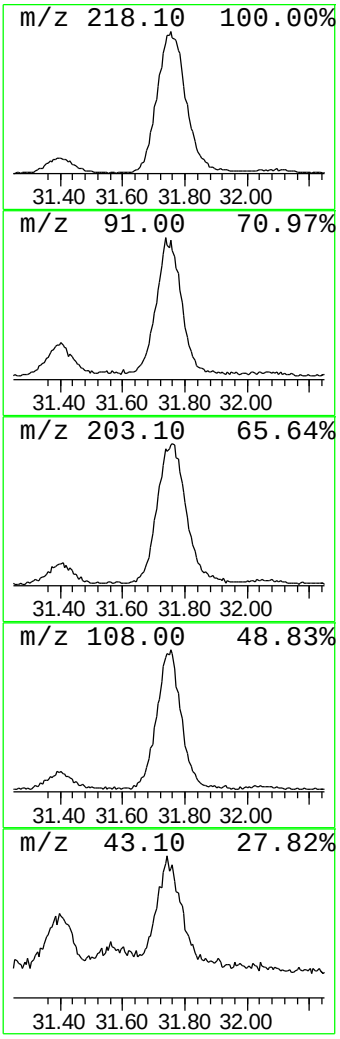
****

Peak Number 19 (1S,6R,9S)-5,5,9,10-Tetrame... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.75	30.59 ng	3009530	Perylene-d12	25.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	72
2	.beta.-Amyrin	426	C30H50O	000559-70-6	64
3	Thieno[2,3-b]pyridine-2-carbonit...	218	C10H10N4S	147992-88-9	53
4	Pyrene, hexadecahydro-	218	C16H26	002435-85-0	50
5	8-Amino-6,7-dimethoxy-4-methylqu...	218	C12H14N2O2	1000213-07-2	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

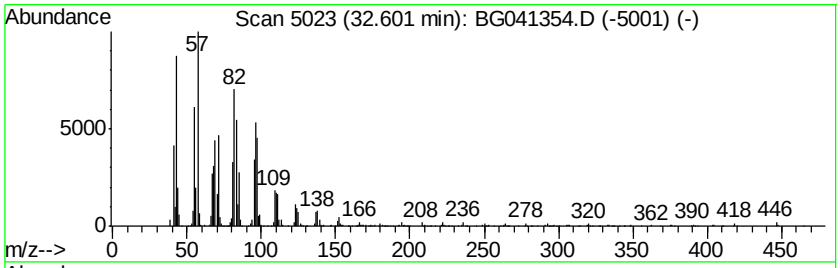
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

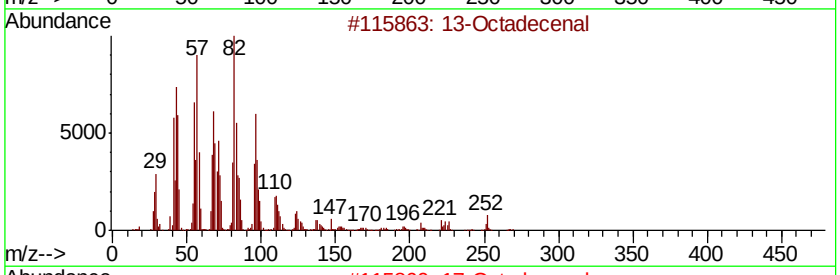
****

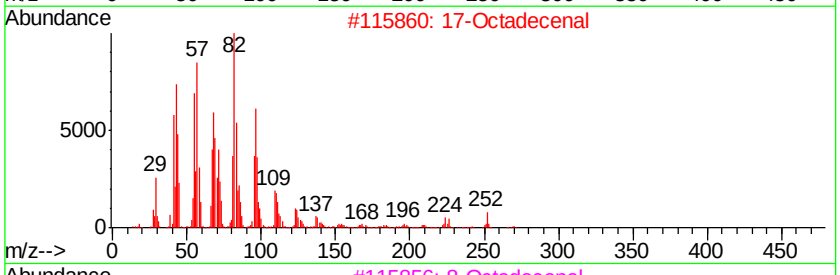
Peak Number 20 13-Octadecenal Concentration Rank 10

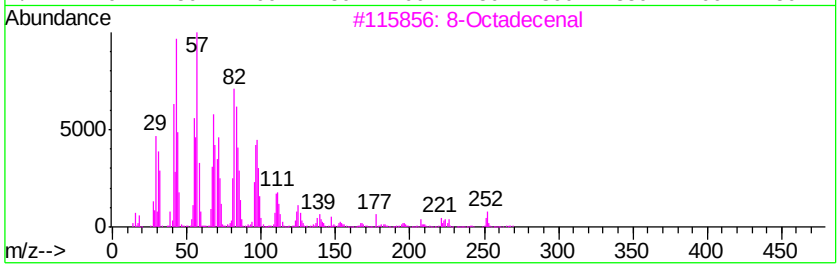
R.T.	EstConc	Area	Relative to ISTD	R.T.
32.60	51.46 ng	5063120	Perylene-d12	25.04

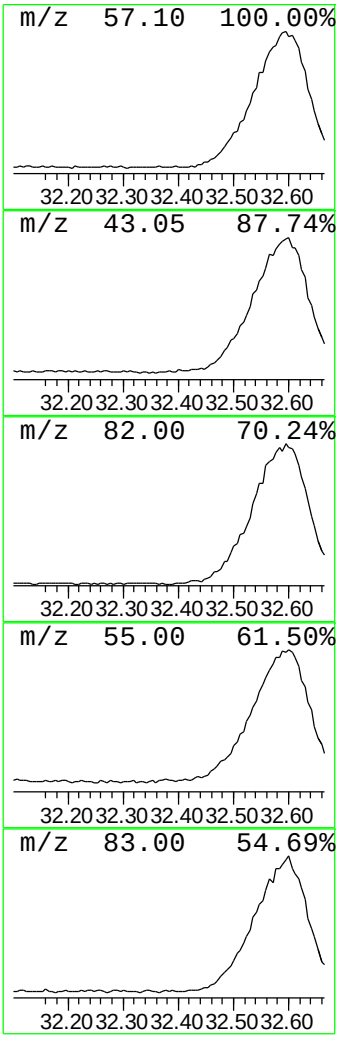
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Octadecenal	266	C18H34O	056554-90-6	93
2	17-Octadecenal	266	C18H34O	056554-86-0	90
3	8-Octadecenal	266	C18H34O	056554-94-0	90
4	16-Octadecenal	266	C18H34O	056554-87-1	89
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87











Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062019\
Data File : BG041354.D
Acq On : 20 Jun 2019 13:17
Operator : HP/JU
Sample : K3366-04
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BRANCH-LEAVES

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.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
4-((1E)-3-Hydroxy...	16.84	32.2	ng	1498490	4	17.45	929900	20.0
2-Propenoic acid,...	17.78	24.3	ng	1130590	4	17.45	929900	20.0
n-Hexadecanoic acid	18.34	82.4	ng	3830090	4	17.45	929900	20.0
Phytol	19.32	59.2	ng	2754250	4	17.45	929900	20.0
9,12-Octadecadien...	19.46	51.4	ng	2389450	4	17.45	929900	20.0
Arachidonic acid	19.51	117.4	ng	5457690	4	17.45	929900	20.0
Octadecanoic acid	19.59	33.1	ng	1540980	4	17.45	929900	20.0
Heneicosane	22.49	40.6	ng	1875150	5	21.73	923028	20.0
1-Heneicosanol	22.53	110.1	ng	5080980	5	21.73	923028	20.0
Nonadecane	23.19	32.8	ng	1514300	5	21.73	923028	20.0
Octacosane	24.09	532.9	ng	52431300	6	25.04	1967980	20.0
2H-1-Benzopyran-6...	24.73	56.6	ng	5566770	6	25.04	1967980	20.0
1,19-Eicosadiene	25.53	27.1	ng	2670360	6	25.04	1967980	20.0
Hentriacontane	26.26	493.0	ng	48510100	6	25.04	1967980	20.0
Vitamin E	26.91	26.8	ng	2633670	6	25.04	1967980	20.0
Oxirane, hexadecyl-	28.42	102.4	ng	10076700	6	25.04	1967980	20.0
.gamma.-Sitosterol	30.54	55.4	ng	5453930	6	25.04	1967980	20.0
1,2,4,8-Tetrameth...	31.40	26.4	ng	2602980	6	25.04	1967980	20.0
(1S,6R,9S)-5,5,9,...	31.75	30.6	ng	3009530	6	25.04	1967980	20.0
13-Octadecenal	32.60	51.5	ng	5063120	6	25.04	1967980	20.0