LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

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_F\Methods\8270-BF042222.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF128108.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.528	546	551	554	rBV	2175791	1977846	83.00%	10.157%
2	6.534	717	722	725	rBV	2064015	2060015	86.45%	10.579%
3	6.904	781	785	788	rBV	702140	548789	23.03%	2.818%
4	7.469	876	881	884	rBV	1523707	1392394	58.43%	7.150%
5	8.187	999	1003	1006	rBV	869330	705521	29.61%	3.623%
6	9.263	1181	1186	1189	rBV	2791340	2382939	100.00%	12.237%
7	9.369	1201	1204	1208	rBV2	36362	32996	1.38%	0.169%
8	9.522	1227	1230	1236	rBV	196968	156829	6.58%	0.805%
9	9.945	1298	1302	1305	rVV	974936	775955	32.56%	3.985%
10	9.975	1305	1307	1310	rVB	43783	35040	1.47%	0.180%
11	10.145	1333	1336	1339	rVB3	25715	28554	1.20%	0.147%
12	10.363	1370	1373	1376	rVB	44746	38946	1.63%	0.200%
13	10.492	1391	1395	1400	rVB2	31862	30610	1.28%	0.157%
14	10.734	1432	1436	1440	rBV	1392507	1321373	55.45%	6.786%
15	10.839	1451	1454	1463	rVB3	47528	86787	3.64%	0.446%
16	11.286	1525	1530	1533	rBV3	52575	63244	2.65%	0.325%
17	11.433	1552	1555	1558	rBV	767773	730984	30.68%	3.754%
18	11.457	1558	1559	1563	rVV	429500	321144	13.48%	1.649%
19	11.510	1565	1568	1570	rVB	61417	47525	1.99%	0.244%
20	11.669	1591	1595	1600	rBV4	47433	89312	3.75%	0.459%
21	11.816	1617	1620	1623	rVB	161873	123043	5.16%	0.632%
22	11.939	1638	1641	1643	rBV	114691	115200	4.83%	0.592%
23	11.963	1643	1645	1648	rVB	130915	113554	4.77%	0.583%
24	12.051	1656	1660	1662	rBV2	129752	148871	6.25%	0.764%
25	12.069	1662	1663	1669	rVB	89080	66932	2.81%	0.344%
26	12.122	1669	1672	1674	rBV	35066	32310	1.36%	0.166%
27	12.233	1688	1691	1693	rBV	72025	62549	2.62%	0.321%
28	12.263	1693	1696	1701	rVB	57638	61178	2.57%	0.314%
29	12.486	1730	1734	1737	rBV	101312	135949	5.71%	0.698%
30	12.522	1737	1740	1743	rVV4	72472	110717	4.65%	0.569%
31	12.575	1746	1749	1752	rBV	54610	58133	2.44%	0.299%
32	12.610	1752	1755	1758	rVB	128691	97138	4.08%	0.499%
33	12.651	1759	1762	1768	rVV	486111	450827	18.92%	2.315%
34	12.880	1795	1801	1807	rBV	547251	577306	24.23%	2.965%
35	12.933	1807	1810	1813	rVB2	27147	32352	1.36%	0.166%
36	13.022	1821	1825	1828	rBV	1864535	1603038	67.27%	8.232%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

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_F\Methods\8270-BF042222.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	13.092	1834	1837	1842	rBV2	43393	70873	2.97%	0.364%
38	13.186	1849	1853	1854	rBV4	41977	42577	1.79%	0.219%
39	13.210	1854	1857	1859	rVB	62773	64870	2.72%	0.333%
40	13.275	1866	1868	1871	rVB	40658	33466	1.40%	0.172%
41	13.316	1871	1875	1877	rBV	70528	69439	2.91%	0.357%
42	13.404	1888	1890	1893	rBV	47576	41975	1.76%	0.216%
43	13.439	1893	1896	1898	rBV2	61096	58644	2.46%	0.301%
44	13.716	1941	1943	1948	rVB	59165	60368	2.53%	0.310%
45	13.827	1959	1962	1965	rVB2	38650	43011	1.80%	0.221%
46	13.857	1965	1967	1969	rBV	41272	31400	1.32%	0.161%
47	13.880	1969	1971	1975	rVV2	23209	34908	1.46%	0.179%
48	13.927	1977	1979	1987	rVB	70499	107680	4.52%	0.553%
49	14.045	1997	1999	2001	rBV	27196	28109	1.18%	0.144%
50	14.080	2001	2005	2008	rVV2	627187	763931	32.06%	3.923%
51	14.104	2008	2009	2015	rVB	209726	187916	7.89%	0.965%
52	14.227	2028	2030	2036	rBV5	22820	28714	1.20%	0.147%
53	14.469	2069	2071	2074	rVB	57645	45858	1.92%	0.235%
54	14.504	2074	2077	2079	rBV	33539	34188	1.43%	0.176%
55	15.139	2181	2185	2188	rBV	158496	229145	9.62%	1.177%
56	15.451	2235	2238	2243	rVB	95181	112634	4.73%	0.578%
57	15.516	2246	2249	2255	rVB	126976	155998	6.55%	0.801%
58	15.586	2256	2261	2264	rBV	380995	475855	19.97%	2.444%
59	17.104	2516	2519	2525	rVB2	42708	69535	2.92%	0.357%
60	17.568	2594	2598	2605	rVB	33840	66485	2.79%	0.341%

Sum of corrected areas: 19473479

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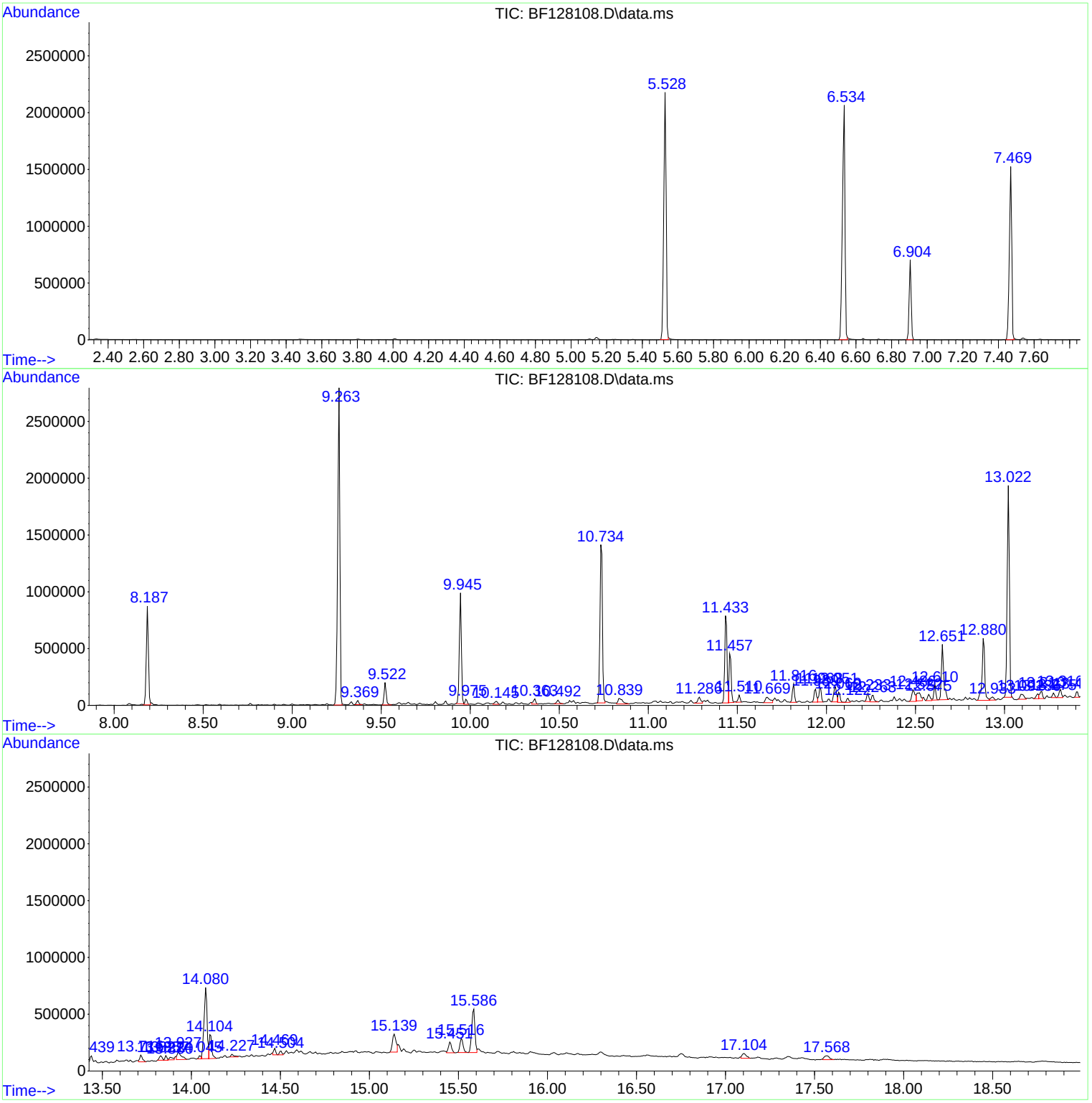
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
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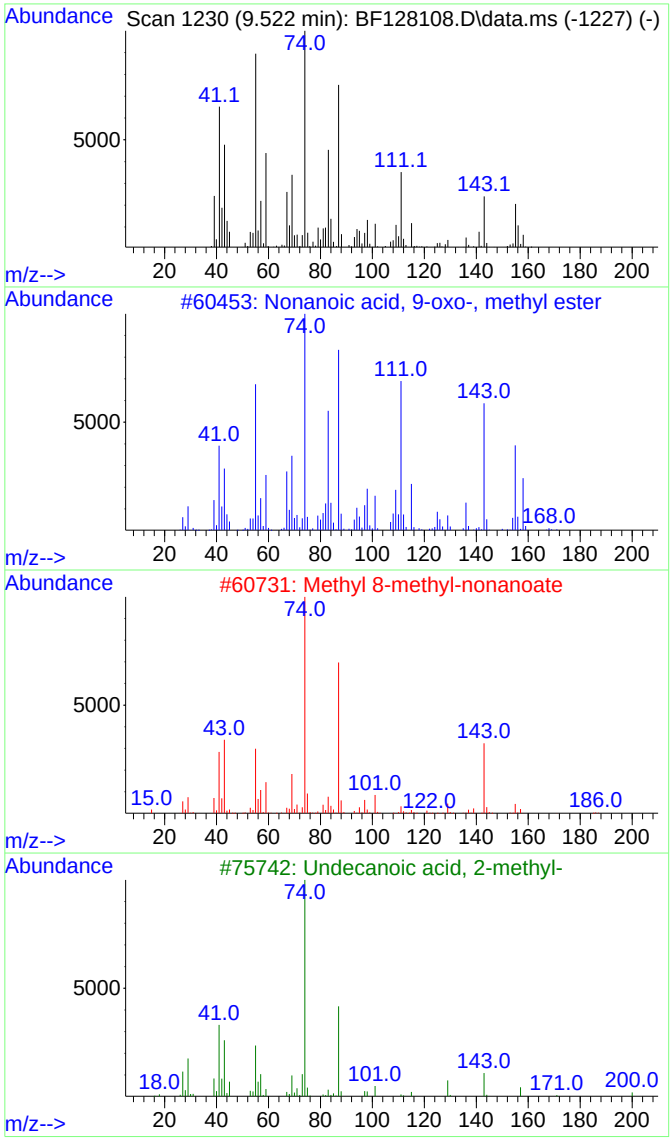
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

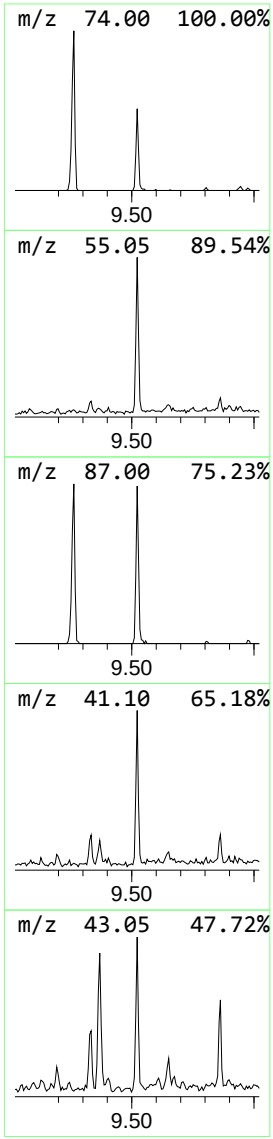
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Nonanoic acid, 9-oxo-, meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.522	4.04 ng	156829	Acenaphthene-d10	9.945

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanoic acid, 9-oxo-, methyl ester	186	C10H18O3	001931-63-1	91
2	Methyl 8-methyl-nonanoate	186	C11H22O2	1000452-00-9	47
3	Undecanoic acid, 2-methyl-	200	C12H24O2	024323-25-9	43
4	Methyl isovalerate	116	C6H12O2	000556-24-1	30
5	Oxazolidin-2-one	87	C3H5NO2	000497-25-6	22





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Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

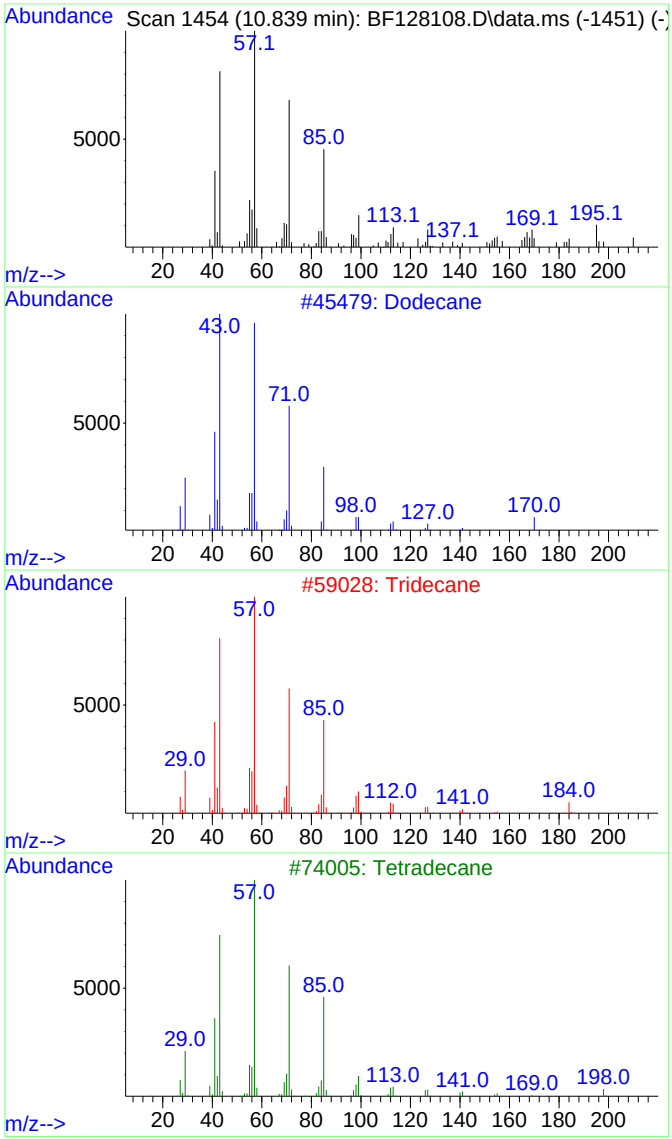
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

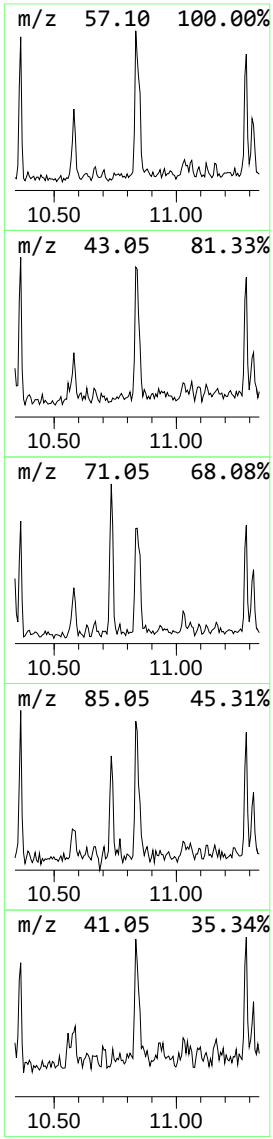
****

Peak Number 2 Dodecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.839	2.37 ng	86787	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	87
2	Tridecane	184	C13H28	000629-50-5	81
3	Tetradecane	198	C14H30	000629-59-4	76
4	Tridecane, 2-methyl-	198	C14H30	001560-96-9	74
5	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
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Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

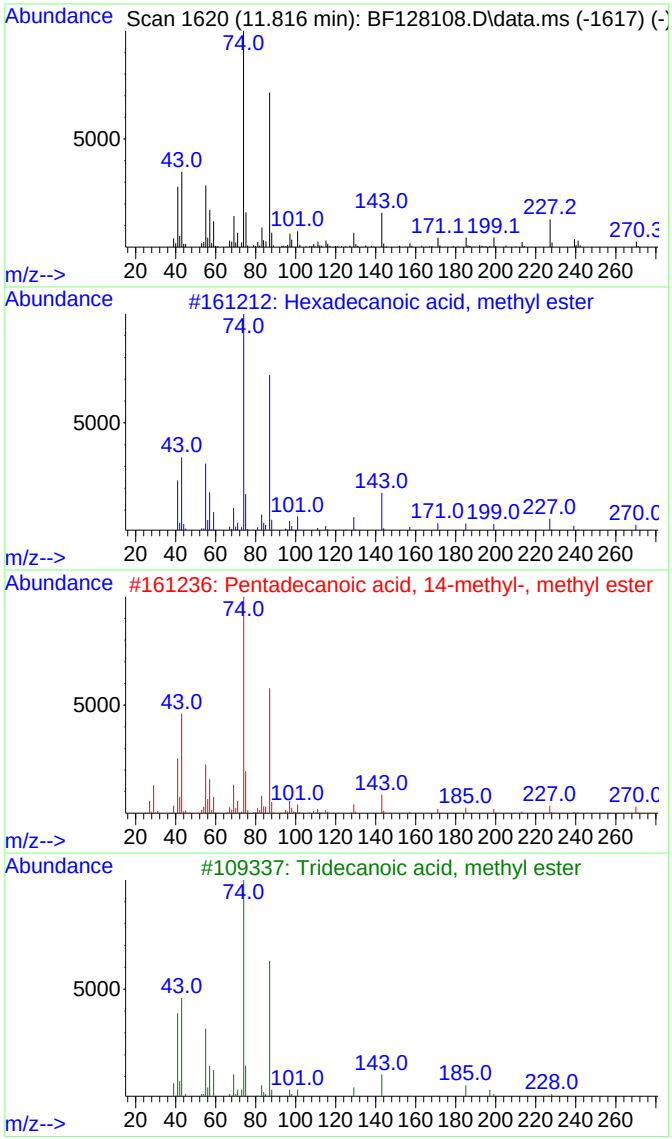
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

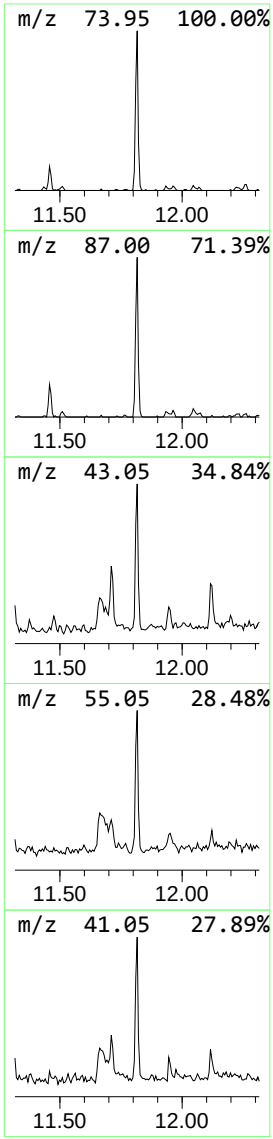
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Hexadecanoic acid, methyl e... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.816	3.37 ng	123043	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	93
3	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	90
4	Methyl 8-methyl-nonanoate	186	C11H22O2	1000452-00-9	89
5	Dodecanoic acid, 10-methyl-, met...	228	C14H28O2	005129-65-7	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
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Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

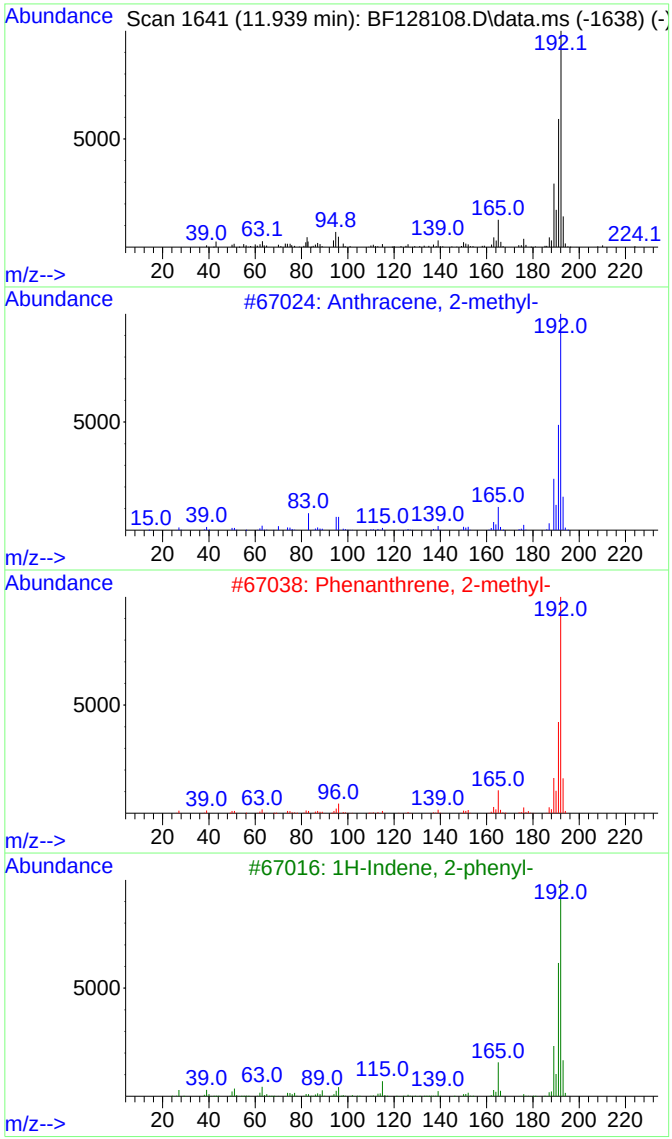
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

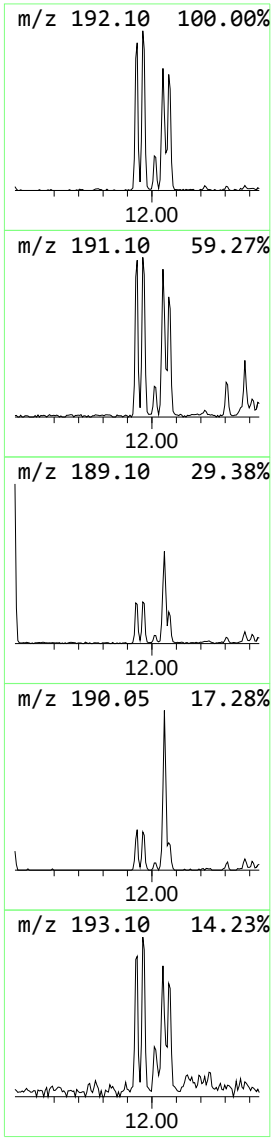
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	3.15 ng	115200	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





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Operator : CG\JU
Sample : N2667-01
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ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

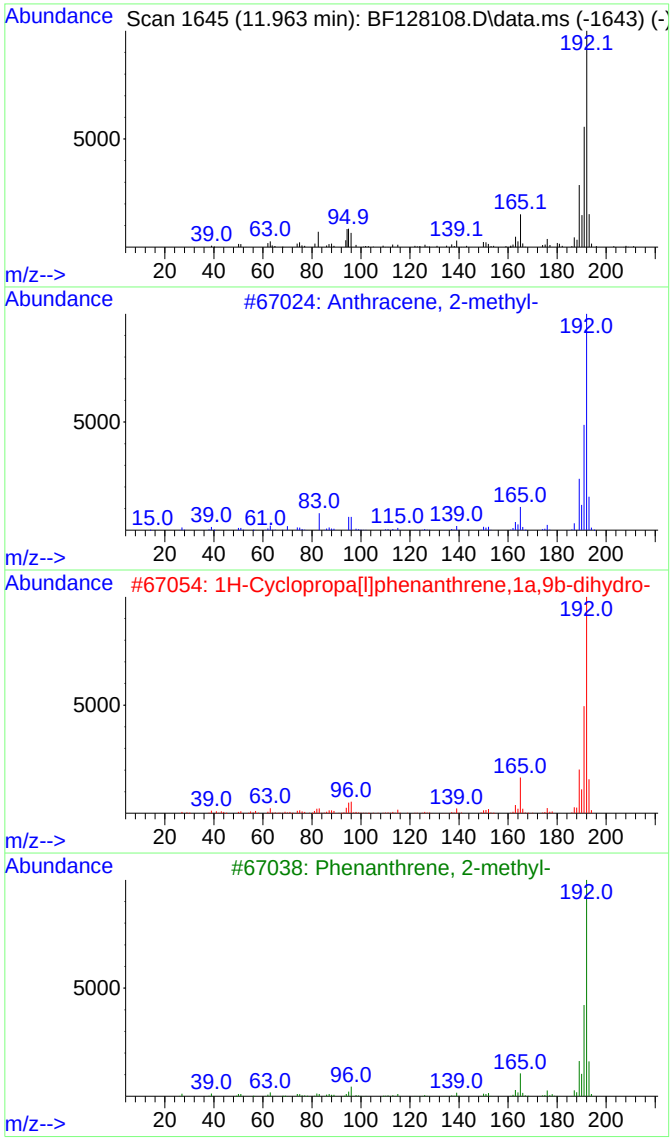
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

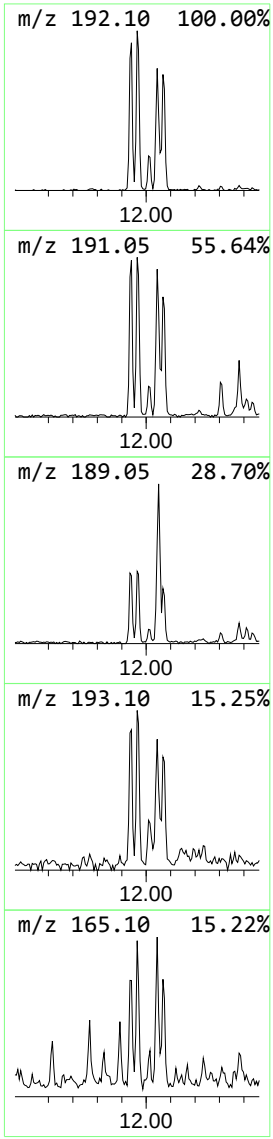
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.963	3.11 ng	113554	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





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Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
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ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
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75-HALSTAD-ST-STOCK-PILE

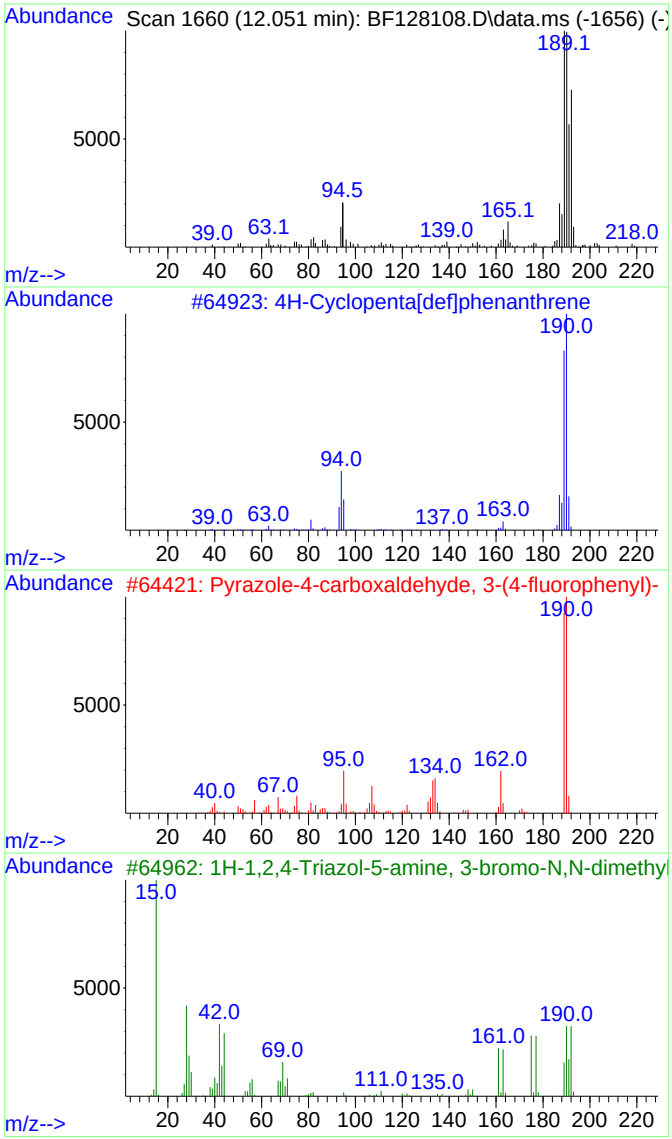
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

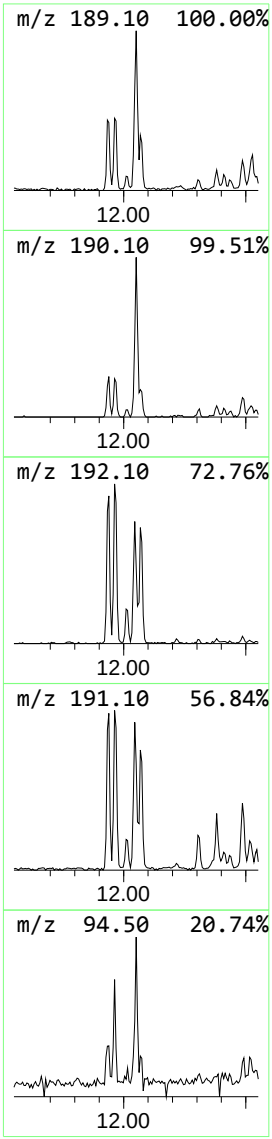
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.051	4.07 ng	148871	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Pyrazole-4-carboxaldehyde, 3-(4-...	190	C10H7FN2O	306936-57-2	46
3	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	43
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	20





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Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

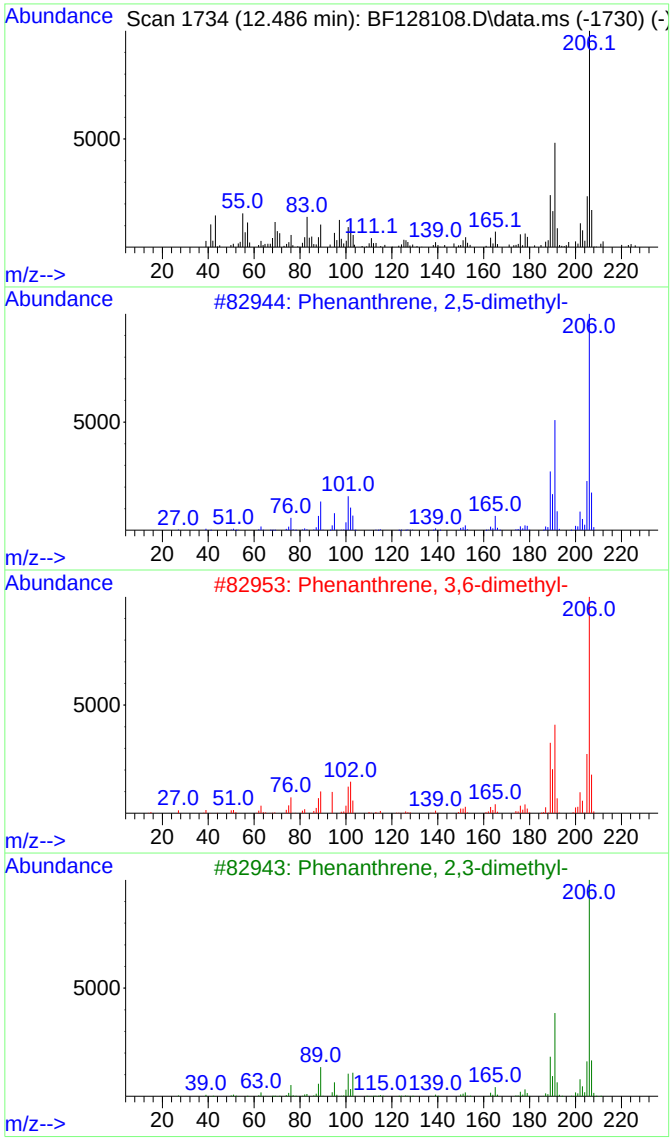
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

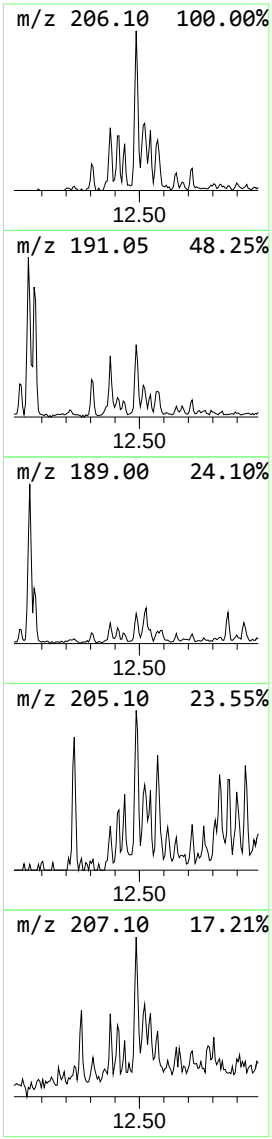
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.486	3.72 ng	135949	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

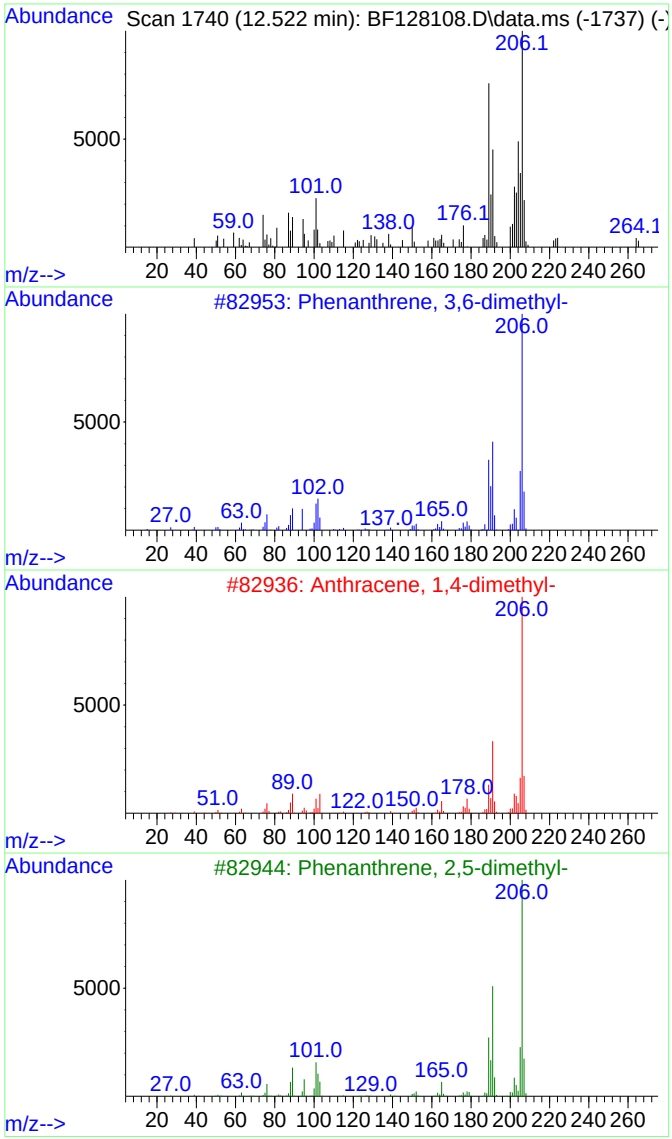
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

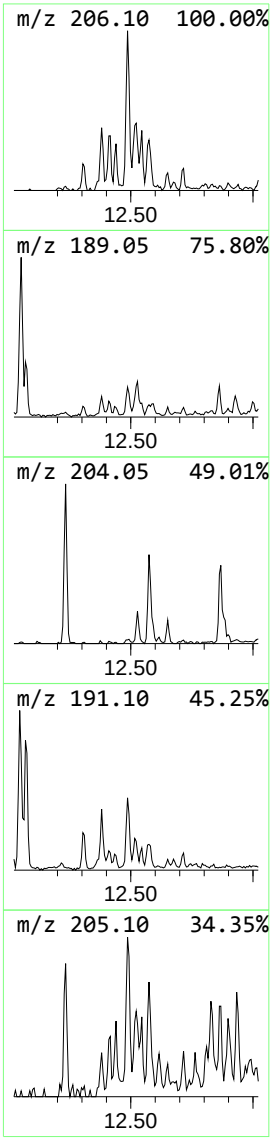
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Phenanthrene, 3,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.522	3.03 ng	110717	Phenanthrene-d10	11.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	60
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	50
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	50
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	50
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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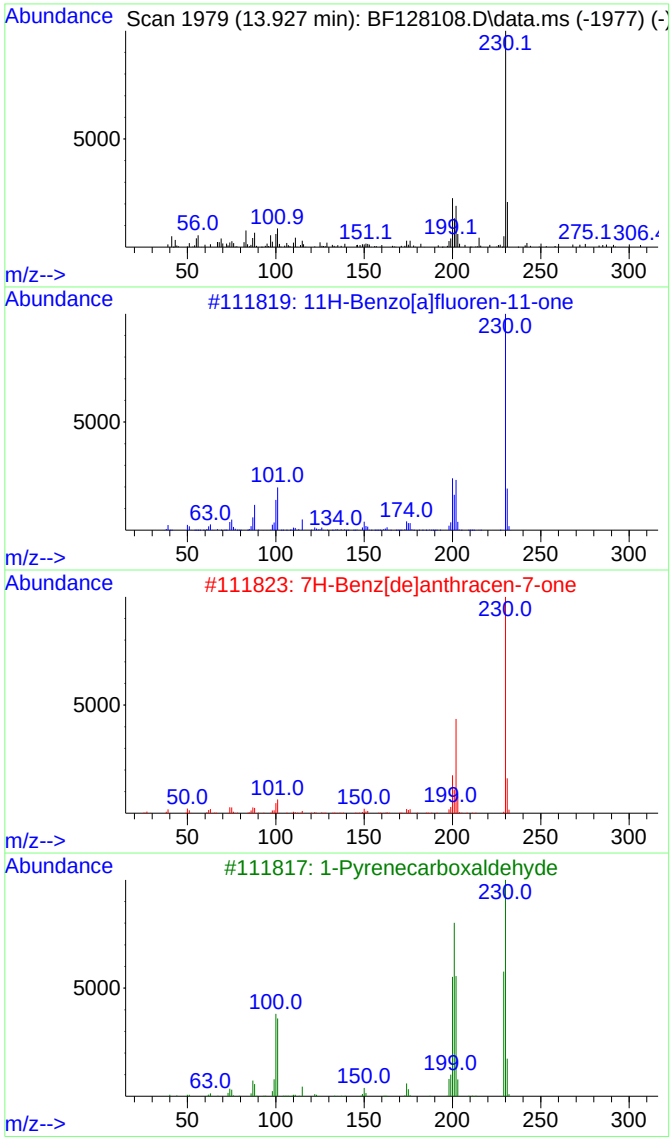
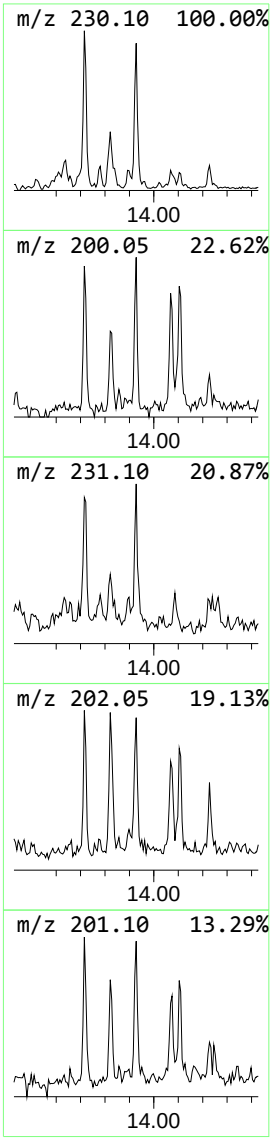
Peak Number 10 11H-Benzo[a]fluoren-11-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.927	2.82 ng	107680	Chrysene-d12	14.080

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	93
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	56
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	53
5	p-Terphenyl	230	C18H14	000092-94-4	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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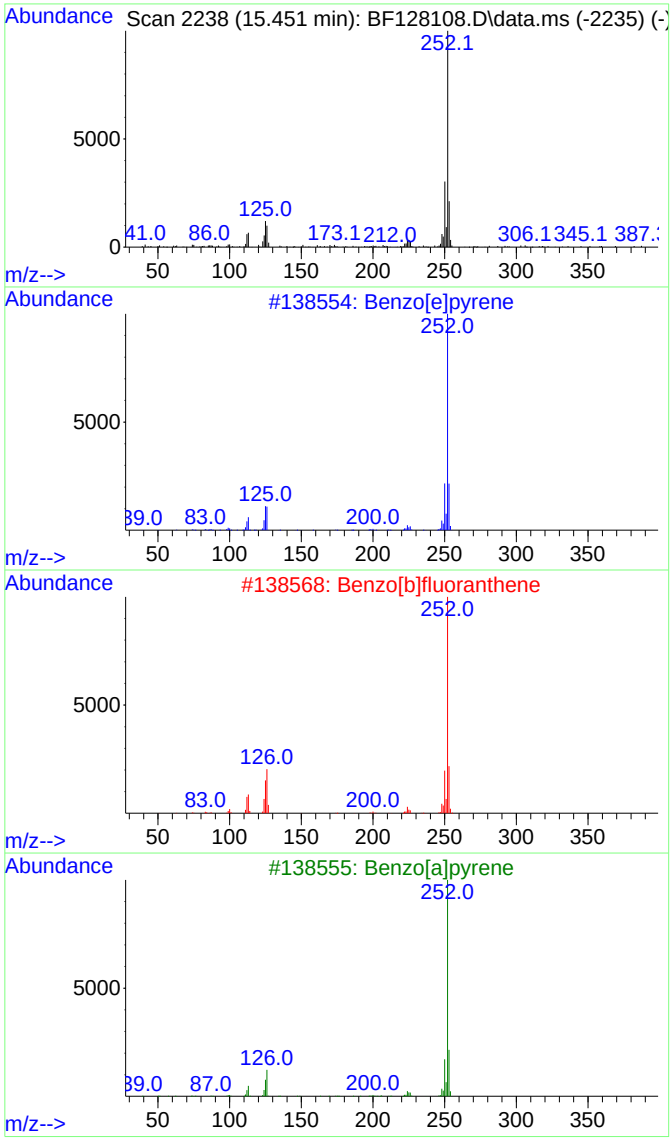
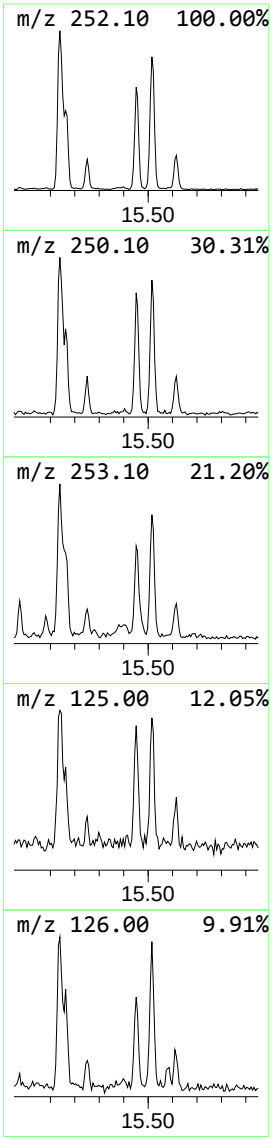
Peak Number 11 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.451	4.73 ng	112634	Perylene-d12	15.586

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	94
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94
5	Perylene	252	C20H12	000198-55-0	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050522\
Data File : BF128108.D
Acq On : 05 May 2022 21:48
Operator : CG\JU
Sample : N2667-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
75-HALSTAD-ST-STOCK-PILE

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Nonanoic acid, ...	9.522	4.0	ng	156829	3	9.945	775955	20.0
Dodecane	10.839	2.4	ng	86787	4	11.434	730984	20.0
Hexadecanoic ac...	11.816	3.4	ng	123043	4	11.434	730984	20.0
Anthracene, 2-m...	11.939	3.1	ng	115200	4	11.434	730984	20.0
1H-Cyclopropa[l...	11.963	3.1	ng	113554	4	11.434	730984	20.0
4H-Cyclopenta[d...	12.051	4.1	ng	148871	4	11.434	730984	20.0
Phenanthrene, 2...	12.486	3.7	ng	135949	4	11.434	730984	20.0
Phenanthrene, 3...	12.522	3.0	ng	110717	4	11.434	730984	20.0
11H-Benzo[a]flu...	13.927	2.8	ng	107680	5	14.080	763931	20.0
Benzo[e]pyrene	15.451	4.7	ng	112634	6	15.586	475855	20.0