

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040120\
 Data File : VU037541.D
 Acq On : 01 Apr 2020 23:43
 Operator : JC/MD
 Sample : L2001-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VHBLK01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M

Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.613	77	85	96	rBV	45227	49382	12.66%	0.980%
2	1.932	175	184	195	rBV	37389	47274	12.12%	0.938%
3	2.591	377	389	403	rBV	73146	117673	30.16%	2.336%
4	3.221	571	585	597	rVB2	3661	8458	2.17%	0.168%
5	4.668	1020	1035	1061	rBV2	68439	160196	41.06%	3.180%
6	5.102	1156	1170	1189	rBV	58166	128101	32.83%	2.543%
7	5.761	1353	1375	1396	rBV3	121098	305276	78.24%	6.060%
8	6.282	1523	1537	1555	rBV	118286	216187	55.41%	4.292%
9	6.722	1657	1674	1689	rBV2	76262	146434	37.53%	2.907%
10	7.591	1930	1944	1957	rBV	45997	79891	20.48%	1.586%
11	7.822	2007	2016	2029	rBV5	2281	4198	1.08%	0.083%
12	7.922	2030	2047	2063	rBV	154029	264559	67.81%	5.252%
13	8.201	2123	2134	2146	rBV2	30368	49744	12.75%	0.987%
14	8.658	2261	2276	2300	rBV	227623	388350	99.53%	7.709%
15	8.935	2350	2362	2379	rBV2	21854	38470	9.86%	0.764%
16	9.436	2506	2518	2534	rBV	164907	275041	70.49%	5.460%
17	10.774	2923	2934	2947	rVB2	58425	92372	23.68%	1.834%
18	10.902	2965	2974	2983	rBV5	2868	4461	1.14%	0.089%
19	11.111	3030	3039	3050	rVB7	3274	5493	1.41%	0.109%
20	11.484	3145	3155	3161	rBV6	2809	4046	1.04%	0.080%
21	11.825	3249	3261	3280	rVB	183743	289779	74.27%	5.752%
22	12.108	3341	3349	3356	rVB4	4533	6310	1.62%	0.125%
23	12.208	3368	3380	3395	rVB	150992	244993	62.79%	4.863%
24	12.327	3408	3417	3426	rBV3	7883	11767	3.02%	0.234%
25	12.523	3431	3478	3479	rBV2	97379	328579	84.22%	6.523%
26	13.176	3660	3681	3682	rBV7	16951	38504	9.87%	0.764%
27	13.545	3783	3796	3798	rBV4	10676	16318	4.18%	0.324%
28	13.774	3845	3867	3869	rBV5	14197	32846	8.42%	0.652%
29	14.114	3962	3973	3995	rVB	236317	390165	100.00%	7.745%
30	14.237	4003	4011	4019	rBV3	5118	7700	1.97%	0.153%
31	14.629	4124	4133	4143	rVB2	2930	4927	1.26%	0.098%
32	15.262	4318	4330	4349	rVB	154689	247508	63.44%	4.913%
33	15.381	4359	4367	4377	rBV8	2705	4816	1.23%	0.096%
34	15.452	4377	4389	4402	rVB	68894	111285	28.52%	2.209%

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Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
Title : TRACE VOA SOM01.0

35	16.002	4547	4560	4574	rVB2	43868	72433	18.56%	1.438%
36	16.198	4611	4621	4629	rBV2	12988	19963	5.12%	0.396%
37	16.314	4647	4657	4669	rBV3	24993	43220	11.08%	0.858%
38	16.462	4690	4703	4710	rBV3	26620	46236	11.85%	0.918%
39	16.500	4711	4715	4727	rVB3	15480	23298	5.97%	0.462%
40	16.693	4761	4775	4786	rVB3	9139	18796	4.82%	0.373%
41	16.844	4816	4822	4830	rBV6	4786	7116	1.82%	0.141%
42	16.947	4844	4854	4868	rBV5	21491	37906	9.72%	0.752%
43	17.044	4877	4884	4895	rVB7	7415	12029	3.08%	0.239%
44	17.159	4906	4920	4936	rBV	150250	268764	68.88%	5.335%
45	17.343	4969	4977	4979	rBV6	5830	7455	1.91%	0.148%
46	17.478	5003	5019	5036	rBV2	179390	359212	92.07%	7.131%

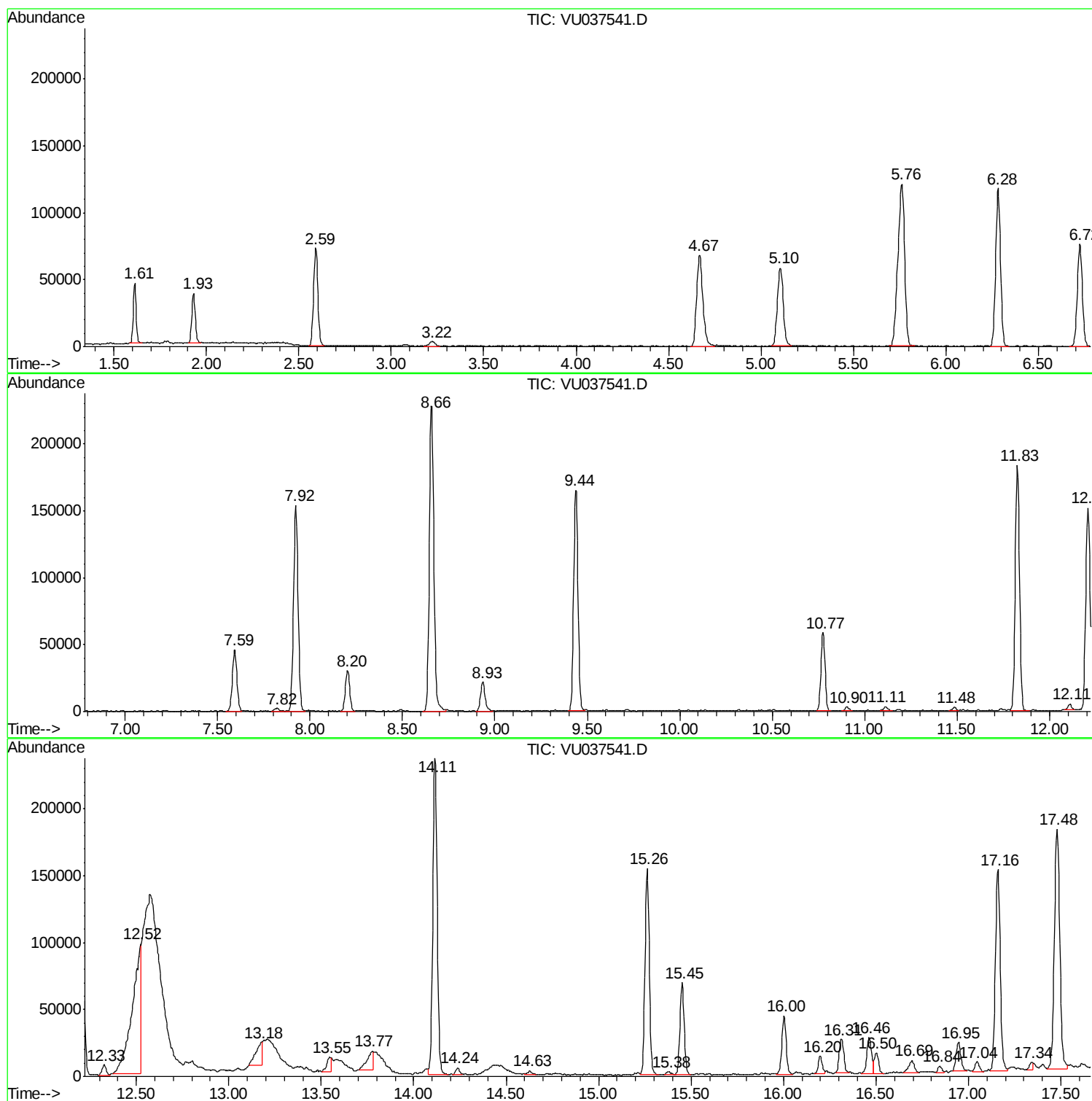
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
Quant Title : TRACE VOA SOM01.0

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



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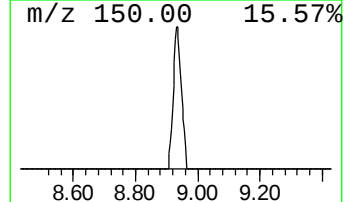
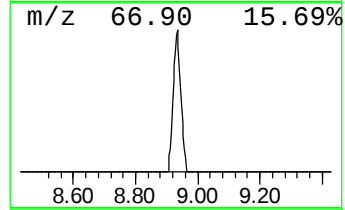
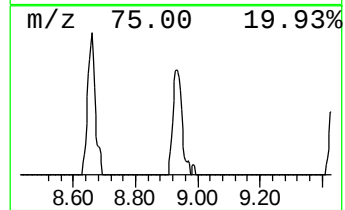
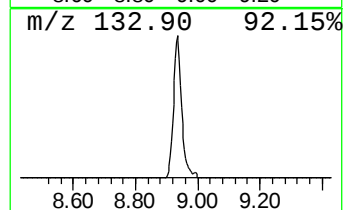
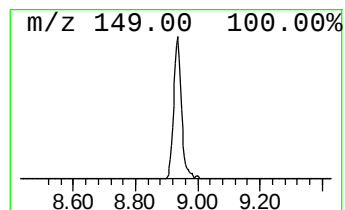
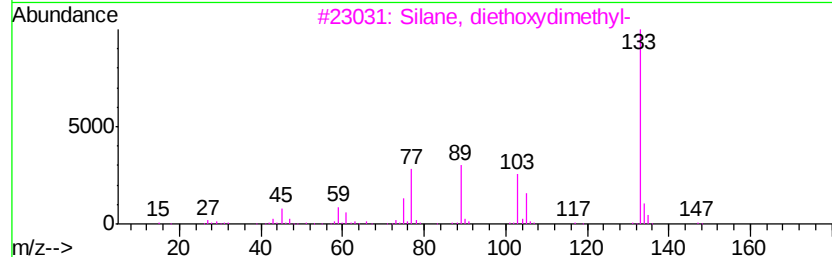
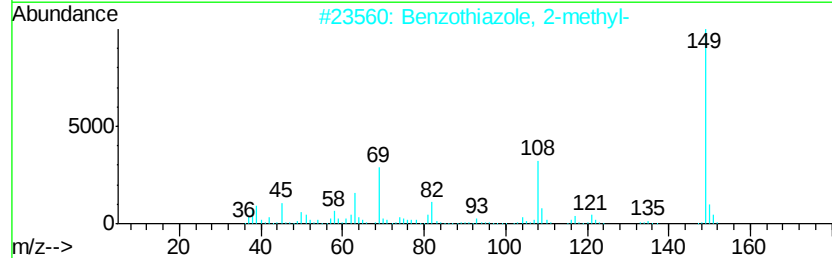
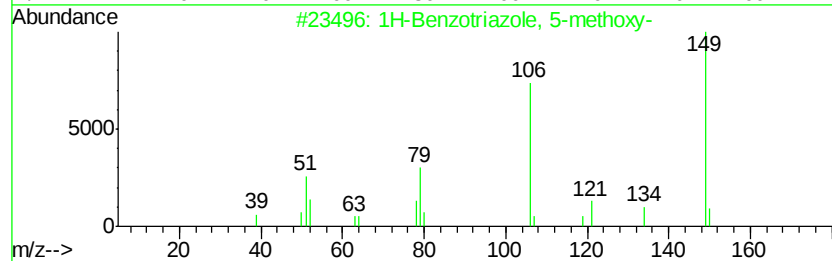
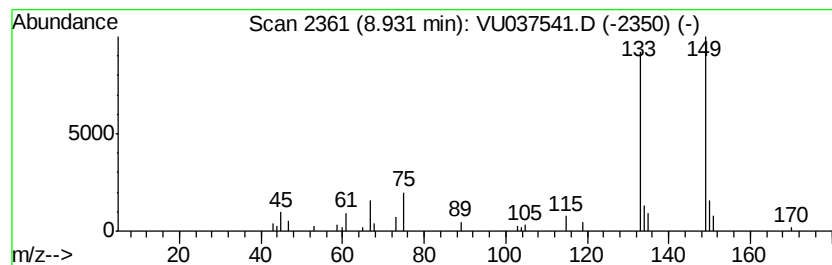
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
Quant Title : TRACE VOA SOM01.0

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

Peak Number 2 unknown-01 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	0.70 ug/L	38470	Chlorobenzene-d5	9.44

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Benzotriazole, 5-methoxy-	149	C7H7N3O	027799-91-3	32
2		Benzo[thiazole, 2-methyl-	149	C8H7NS	000120-75-2	25
3		Silane, diethoxydimethyl-	148	C6H16O2Si	000078-62-6	25
4		2H-Indol-2-one, 1,3-dihydro-5-hy...	149	C8H7NO2	003416-18-0	25
5		4-Ethylbenzoic acid, 2-pentyl ester	220	C14H20O2	1000293-31-9	25



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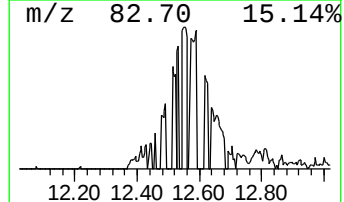
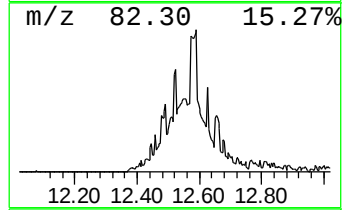
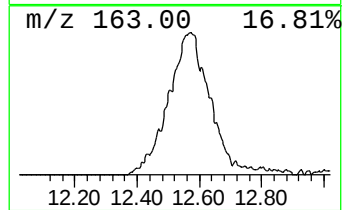
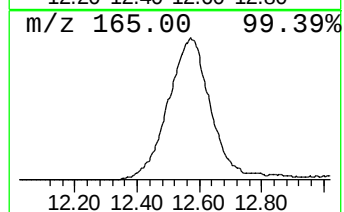
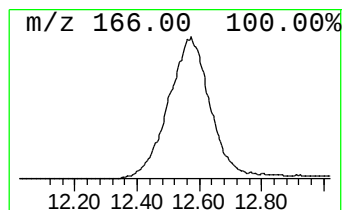
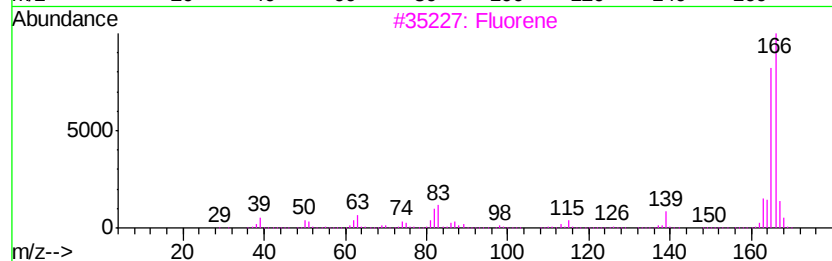
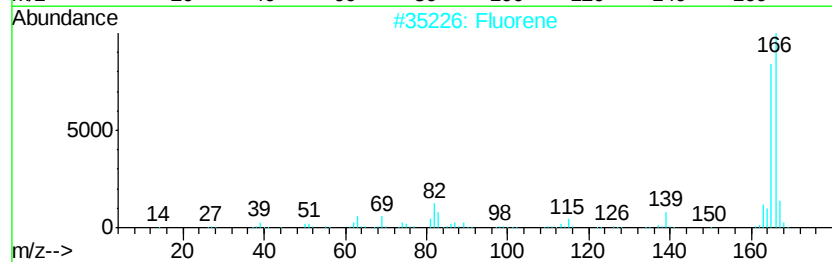
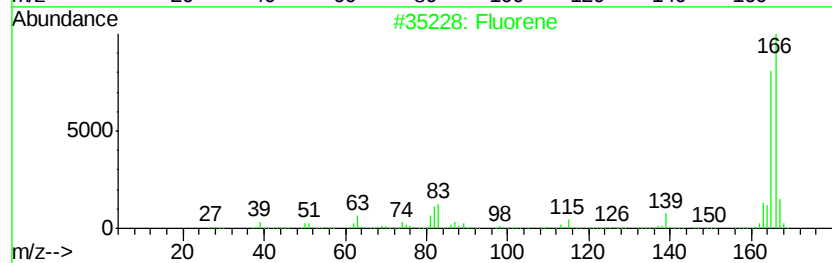
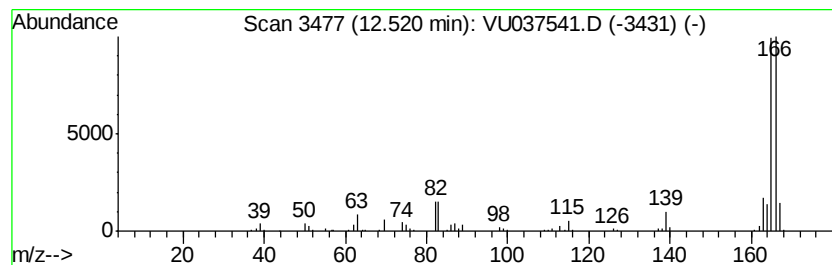
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
Quant Title : TRACE VOA SOM01.0

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

Peak Number 3 Fluorene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	5.67 ug/L	328579	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluorene	166	C13H10	000086-73-7	97
2		Fluorene	166	C13H10	000086-73-7	97
3		Fluorene	166	C13H10	000086-73-7	94
4		1H-Phenylene	166	C13H10	000203-80-5	59
5		3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	59



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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

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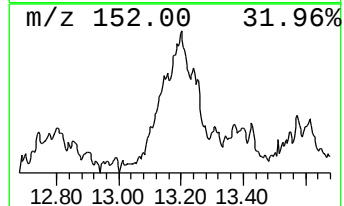
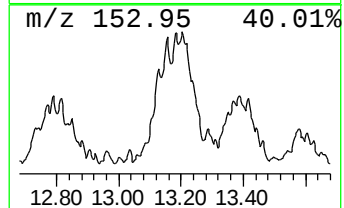
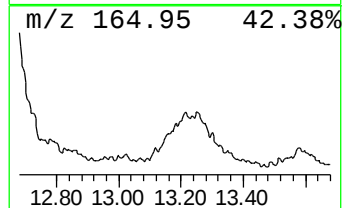
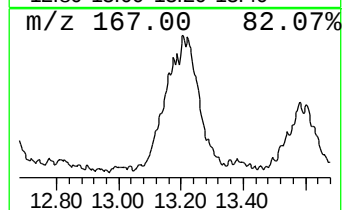
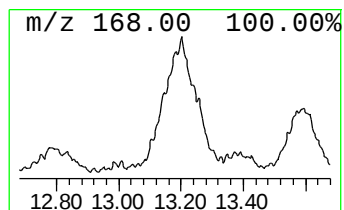
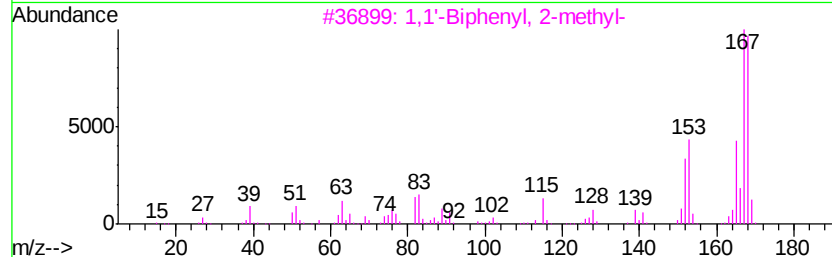
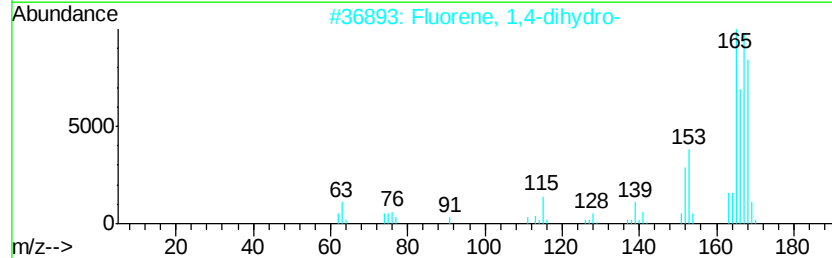
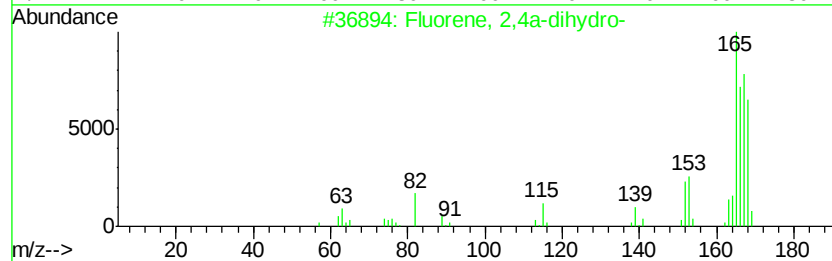
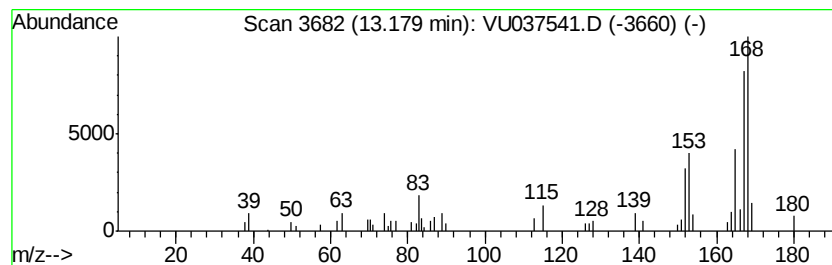
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 4 Fluorene, 2,4a-dihydro- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	0.66 ug/L	38504	1,4-Dichlorobenzene-d4	11.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	95
2			Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	95
3			1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	93
4			1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	89
5			1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	89



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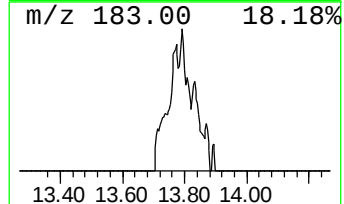
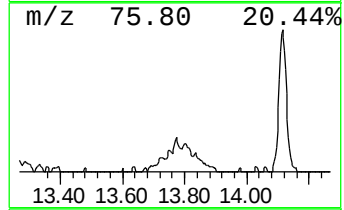
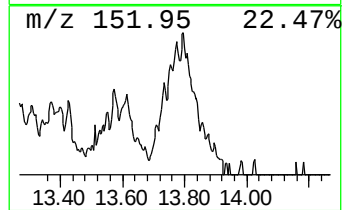
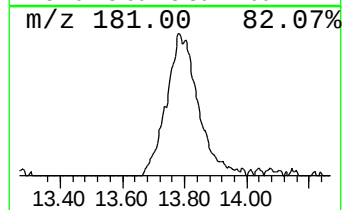
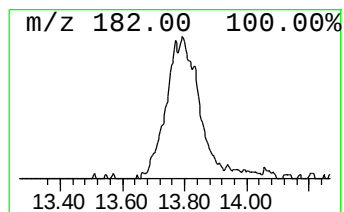
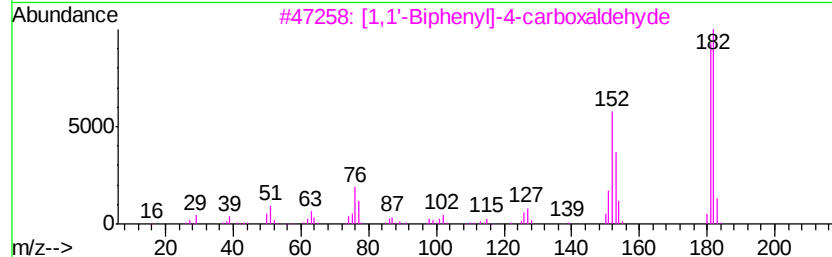
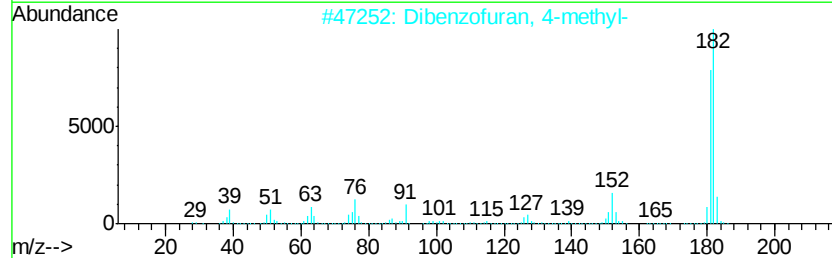
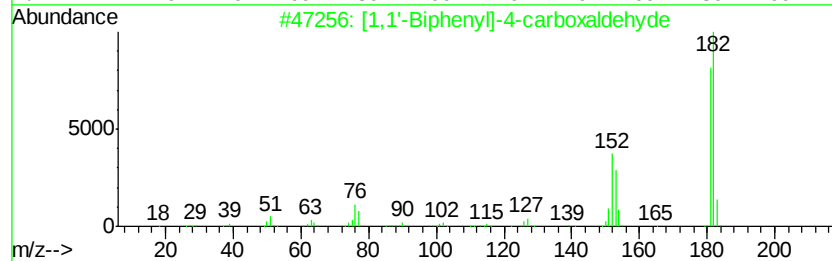
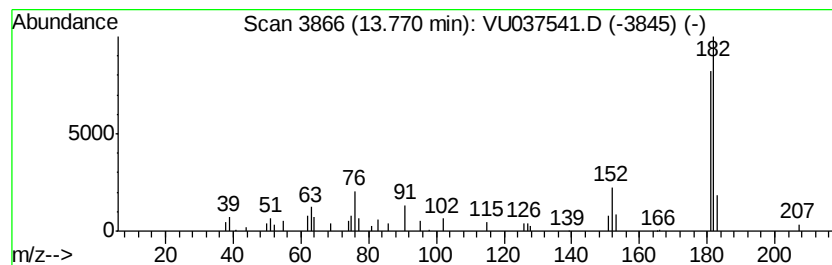
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	0.57 ug/L	32846	1,4-Dichlorobenzene-d4	11.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	80
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
5	Pyridine, 4,4'-(1,2-ethenediyl)b...	182	C12H10N2	013362-78-2	64



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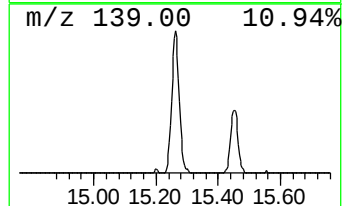
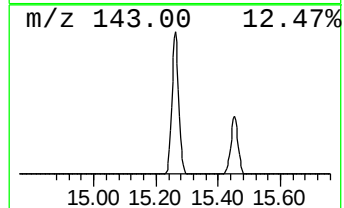
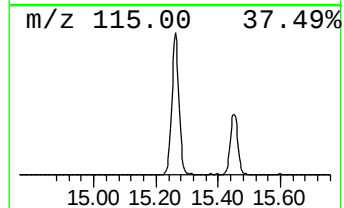
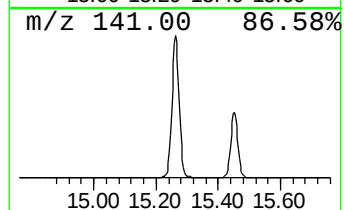
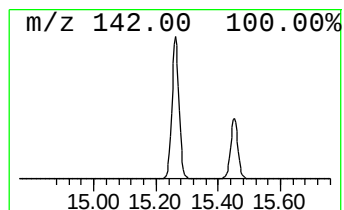
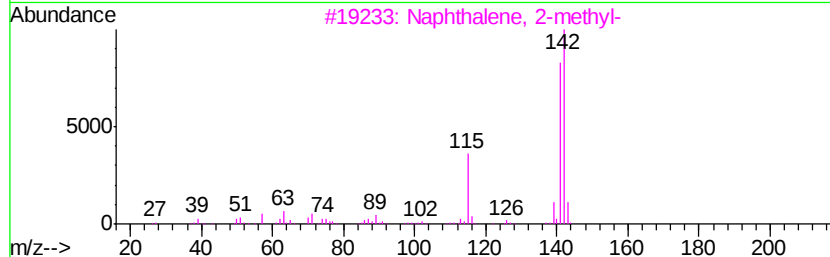
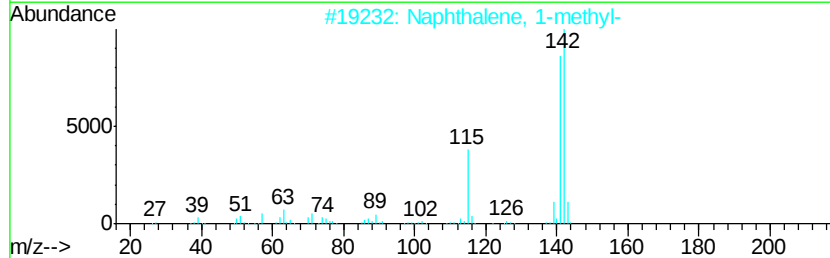
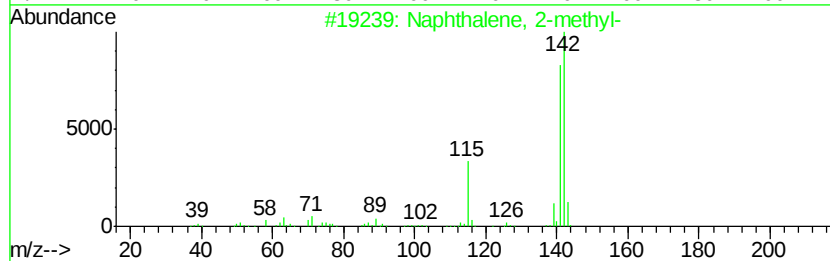
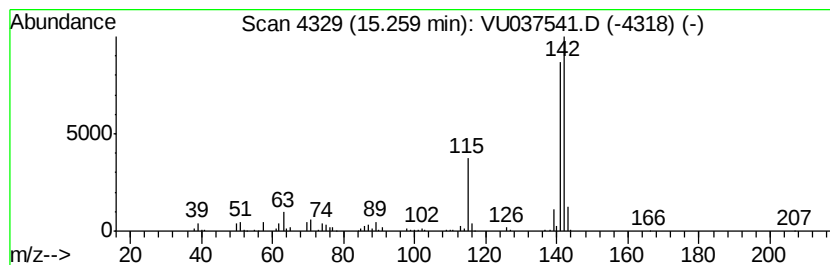
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 7 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	4.27 ug/L	247508	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
4		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
5		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

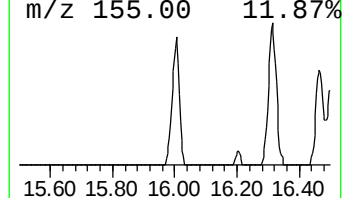
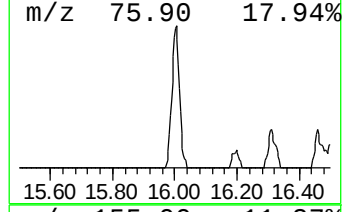
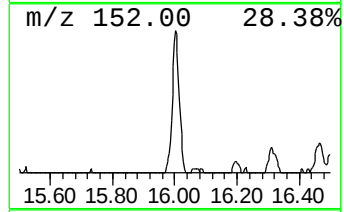
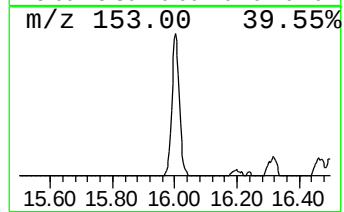
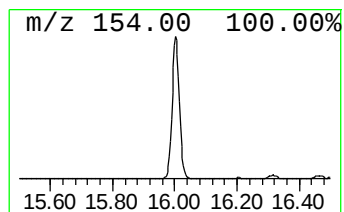
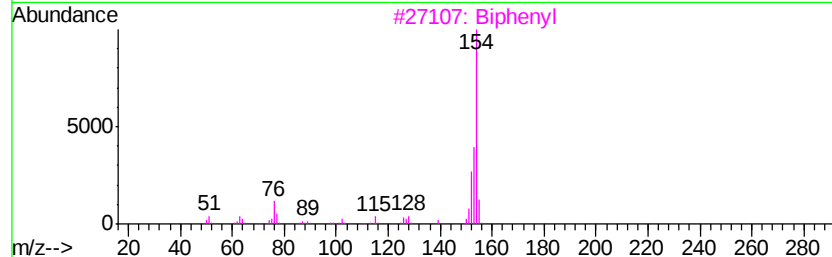
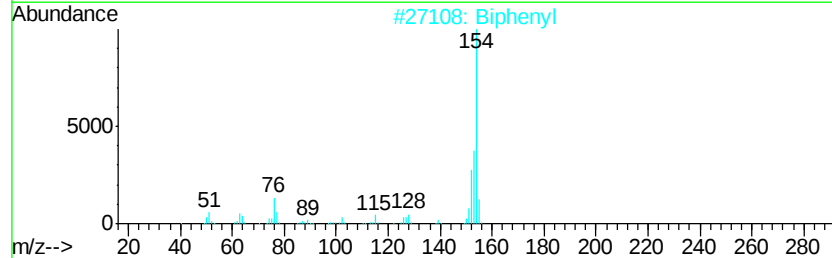
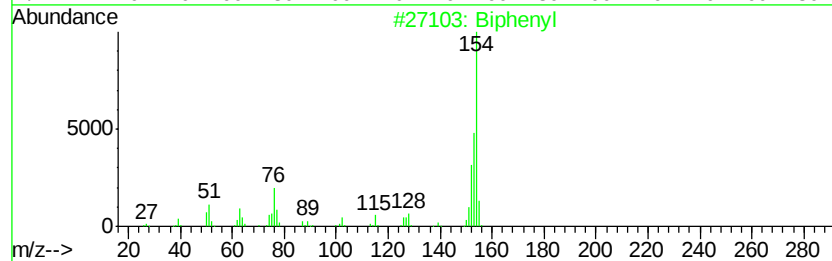
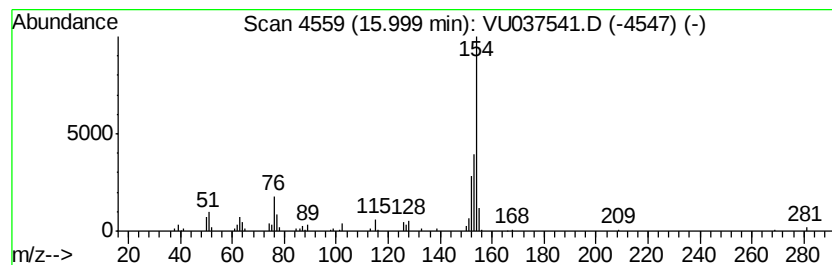
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 9 Biphenyl Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.00	1.25 ug/L	72433	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Biphenyl	154	C12H10	000092-52-4	96
2		Biphenyl	154	C12H10	000092-52-4	95
3		Biphenyl	154	C12H10	000092-52-4	95
4		Biphenyl	154	C12H10	000092-52-4	94
5		Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	87



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

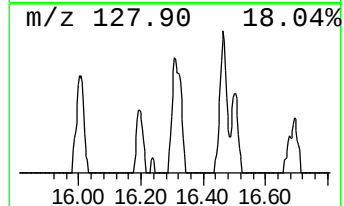
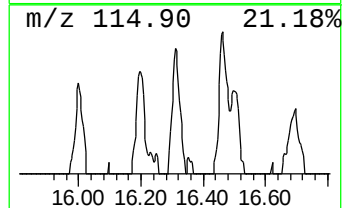
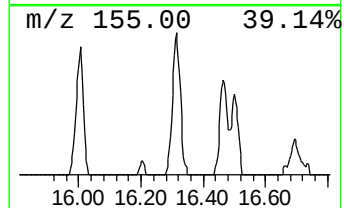
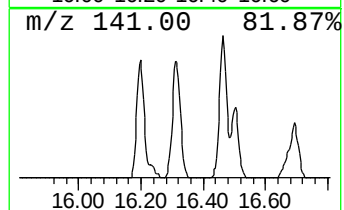
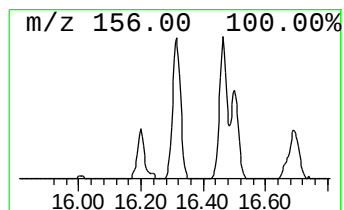
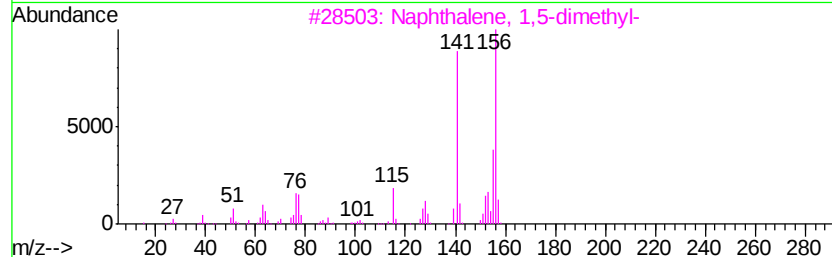
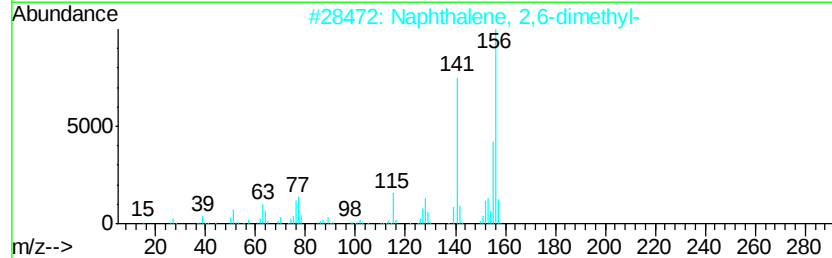
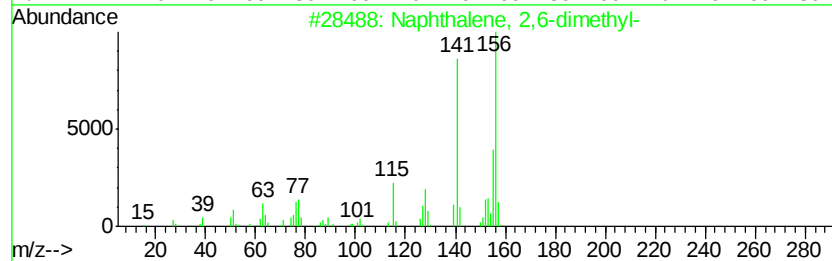
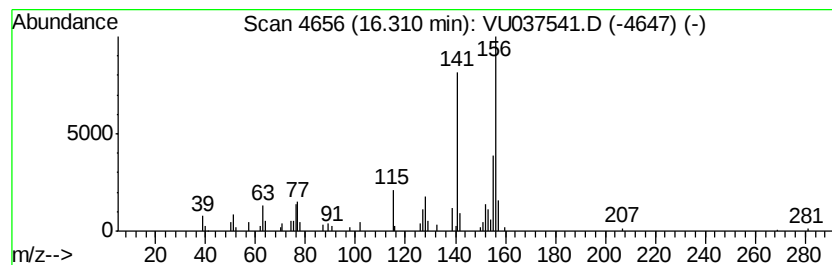
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 10 Naphthalene, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.31	0.75 ug/L	43220	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

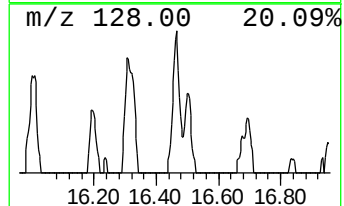
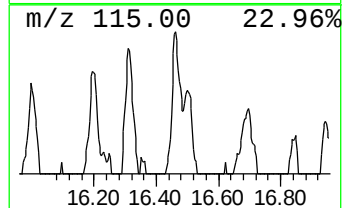
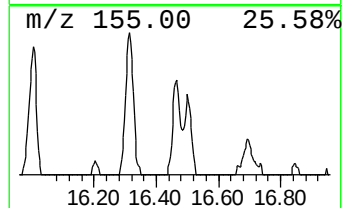
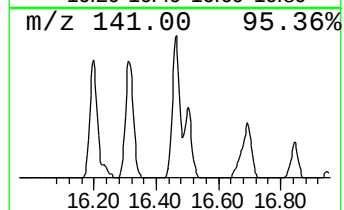
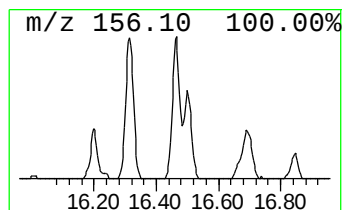
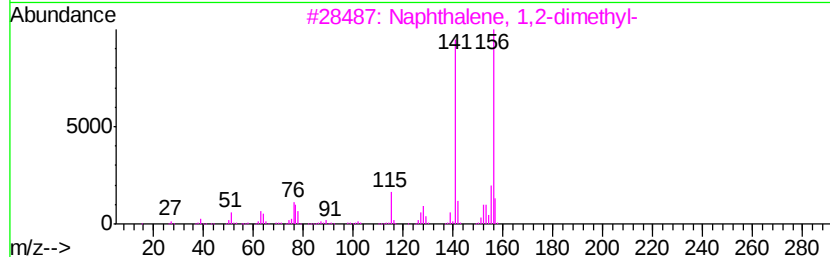
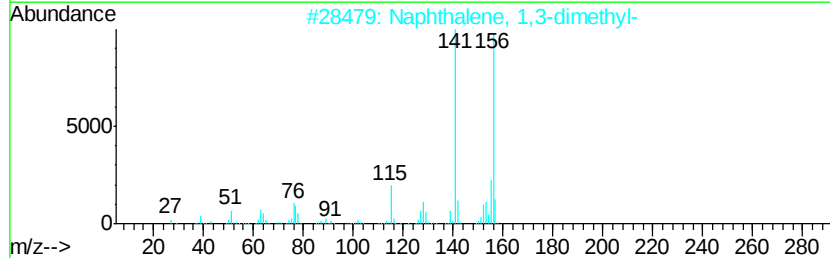
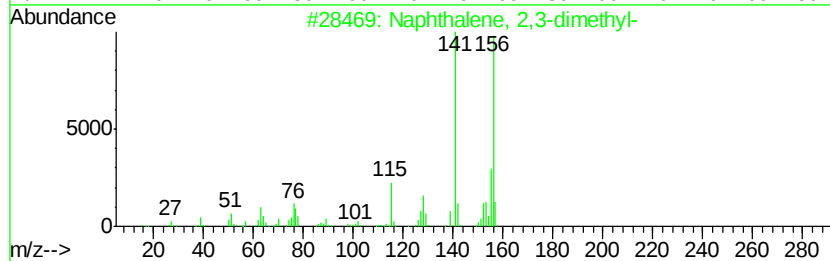
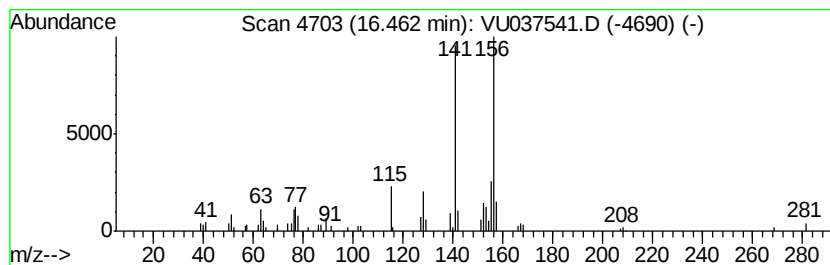
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 11 Naphthalene, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	0.80 ug/L	46236	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3		Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
4		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
5		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

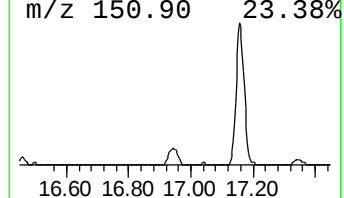
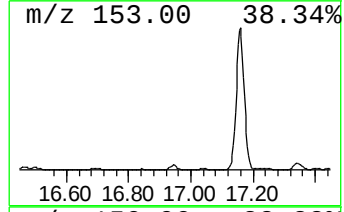
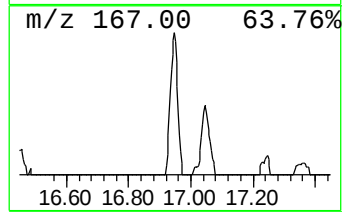
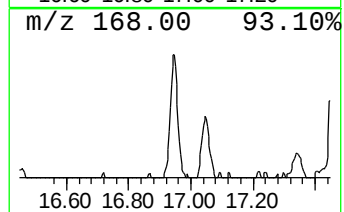
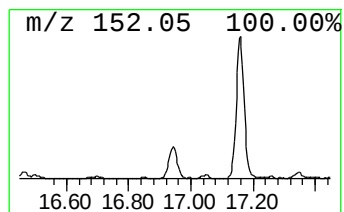
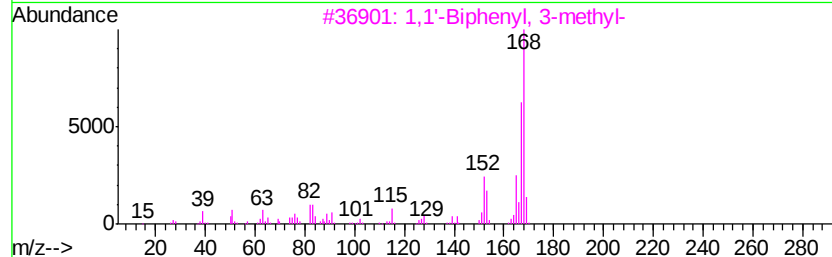
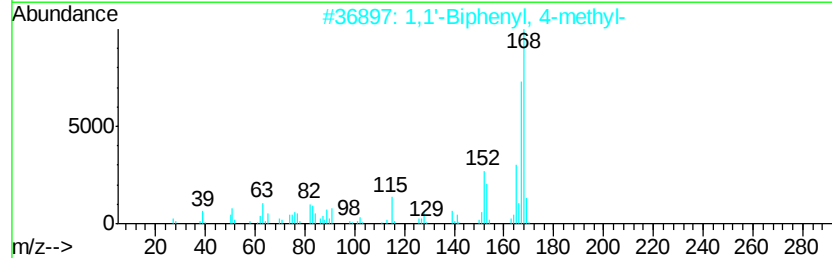
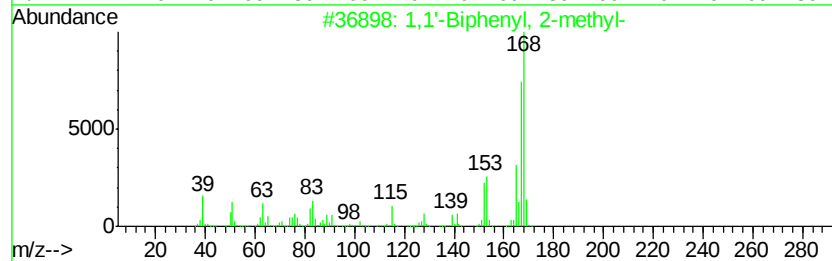
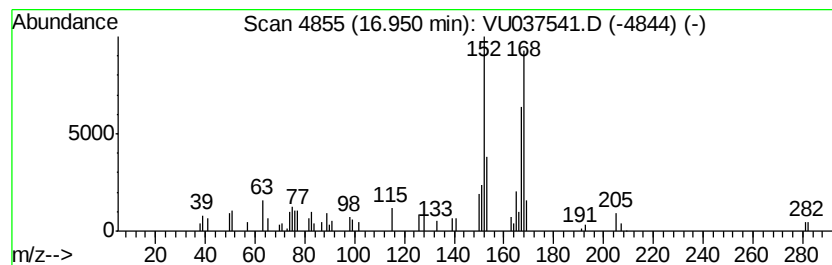
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 12 1,1'-Biphenyl, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.95	0.65 ug/L	37906	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	60
2		1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	60
3		1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	60
4		1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	60
5		Diphenylmethane	168	C13H12	000101-81-5	49



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

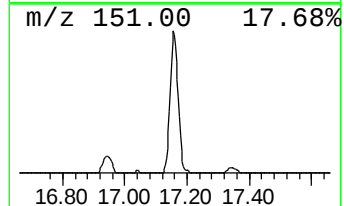
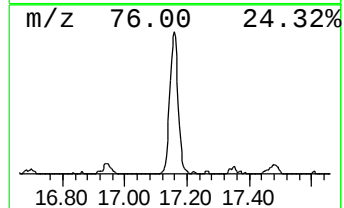
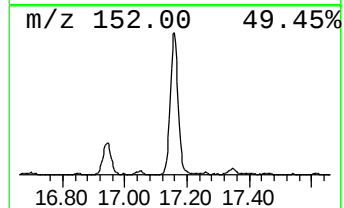
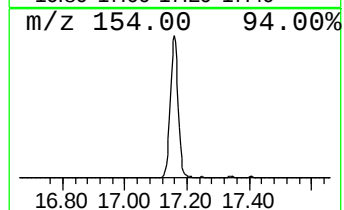
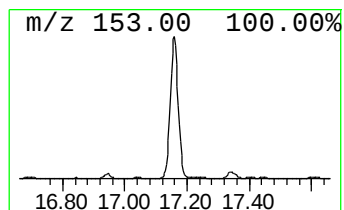
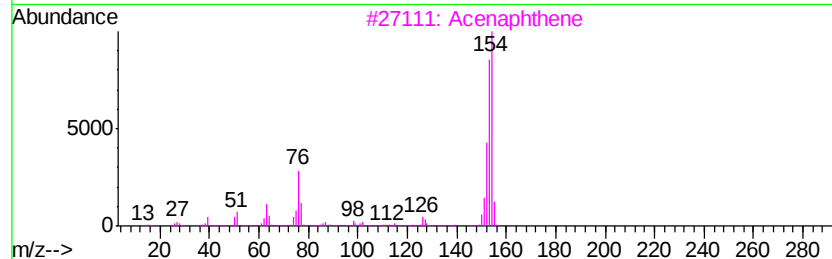
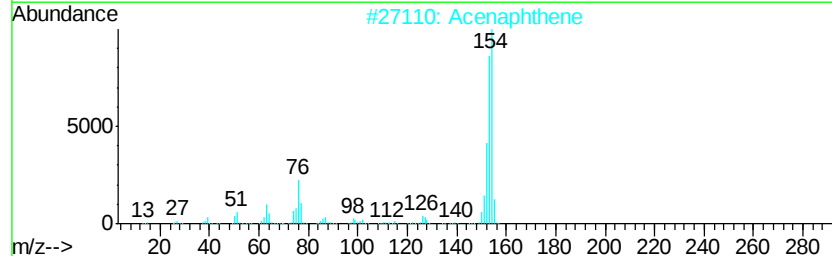
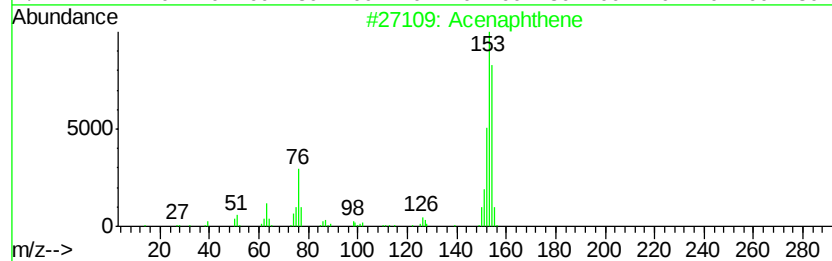
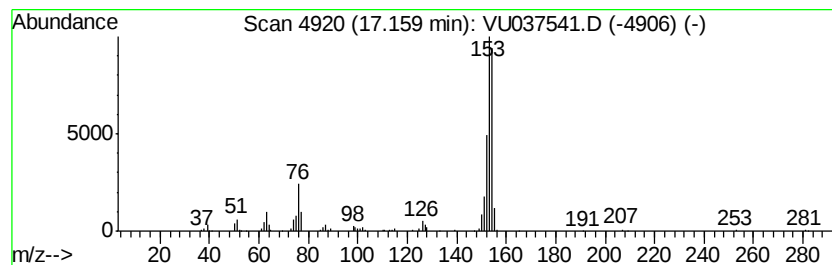
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 13 Acenaphthene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.16	4.64 ug/L	268764	1,4-Dichlorobenzene-d4	11.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Acenaphthene	154	C12H10	000083-32-9	96
2			Acenaphthene	154	C12H10	000083-32-9	91
3			Acenaphthene	154	C12H10	000083-32-9	89
4			Acenaphthene	154	C12H10	000083-32-9	87
5			1,4-Ethenonaphthalene, 1,4-dihydro-	154	C12H10	007322-47-6	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
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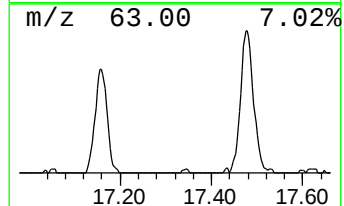
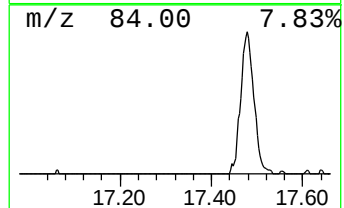
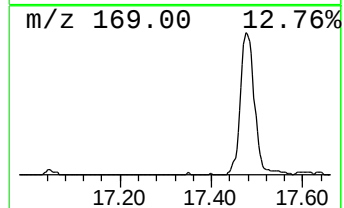
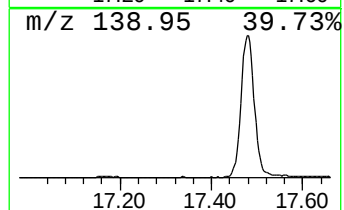
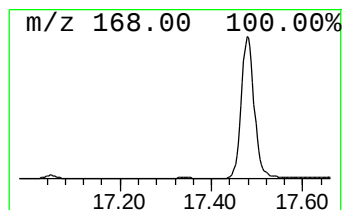
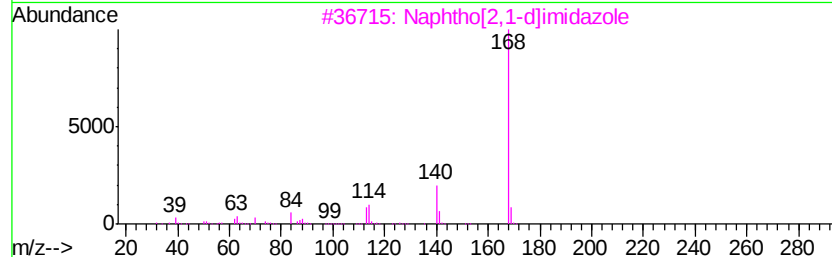
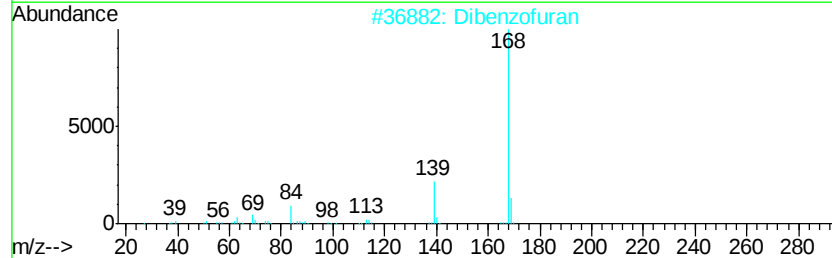
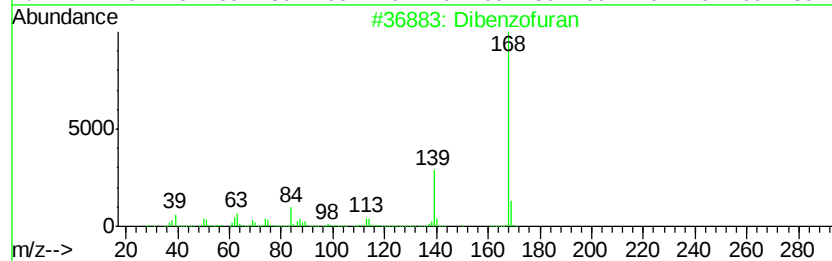
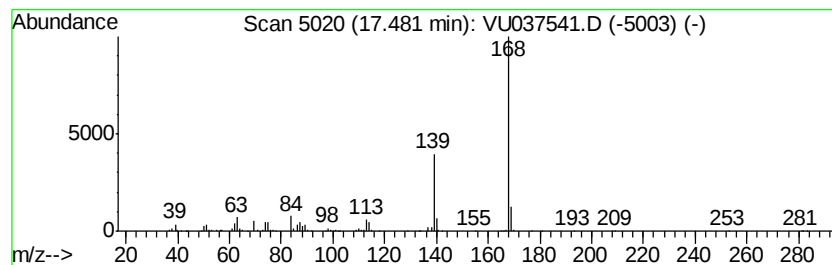
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Quant Title : TRACE VOA SOM01.0

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

Peak Number 14 Dibenzofuran Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	6.20 ug/L	359212	1,4-Dichlorobenzene-d4	11.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzofuran	168	C12H8O	000132-64-9	94
2		Dibenzofuran	168	C12H8O	000132-64-9	86
3		Naphtho[2,1-d]imidazole	168	C11H8N2	000233-53-4	53
4		9H-Pyrido[3,4-b]indole	168	C11H8N2	000244-63-3	53
5		1H-Pyrido[2,3-b]indole	168	C11H8N2	000244-76-8	50



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040120\
Data File : VU037541.D
Acq On : 01 Apr 2020 23:43
Operator : JC/MD
Sample : L2001-22
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR040120WMA.M
Quant Title : TRACE VOA SOM01.0

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown-01	8.93	0.7	ug/L	38470	2	9.44	275041	5.0
Fluorene	12.52	5.7	ug/L	328579	3	11.83	289779	5.0
Fluorene, 2,4a-di...	13.18	0.7	ug/L	38504	3	11.83	289779	5.0
[1,1'-Biphenyl]-4...	13.77	0.6	ug/L	32846	3	11.83	289779	5.0
Naphthalene, 1-me...	15.26	4.3	ug/L	247508	3	11.83	289779	5.0
Biphenyl	16.00	1.3	ug/L	72433	3	11.83	289779	5.0
Naphthalene, 2,6-...	16.31	0.8	ug/L	43220	3	11.83	289779	5.0
Naphthalene, 2,3-...	16.46	0.8	ug/L	46236	3	11.83	289779	5.0
1,1'-Biphenyl, 2-...	16.95	0.7	ug/L	37906	3	11.83	289779	5.0
Acenaphthene	17.16	4.6	ug/L	268764	3	11.83	289779	5.0
Dibenzofuran	17.48	6.2	ug/L	359212	3	11.83	289779	5.0