



Service Note Number: 5977Series-010

Supersedes: False

Title: Scan Mass Assignment OFF for the Higher Mass Range

Summary:

There has been a few cases where a tune was run the profile data looked normal, but the scan mass assignment for 502 was significantly different than the profile in the tune report, as much as 0.5 amu different.

If a data is acquired with the saved tune file mentioned above then one could see shifts in the data also. In the tune report one would see the shift to the right by about 0.5 amu while the user will see data being shifted about 0.5 to the left (lower) than the expected results.

This issue could occur on any type of tune file and also only on the single quad MSDs.

Parts Required:

Point Patch Macro mgcorr.mac

This will be required for B.07.00 and for B.07.00 SP1. The patch will not be required for B.07.00 SP2, expected release is end of calendar year 2013.

For compliance customers, please attach a copy of this service note for the official waiver of mgcorr.mac.

Situation:

If you look at the two partial section of the tune reports from a 5977A extractor source images attached (1-Normal Tune Report, 2- Not Normal Tune Report), one will notice a significant difference of the m/z 502 and m/z 503 abundances and mass assignment (highlighted). Unfortunately, the abnormality of the tune report is not isolated to 5977A only (we tested it on 5975 with MassHunter B.07.00 – failed) and it is not isolated to eTune either.

Moreso, the issue manifest itself in **atune, etune or another tune and then could show up in an acquisition data file if the bad tune file is used**. However, this is isolated only to MassHunter Acq Version B.07.00 and B.07.00 SP1 software.

Solution/Action:

A point patch is available for this and it is applicable to B.07.00 as well as B.07.00 SP1.
Exit Instrument control to start the update process.

Steps to update the system:

- 1 - make a backup copy of mgcorr.mac
rename c:\gcms\msexe\mgcorr.mac to c:\gcms\msexe\mgcorr-orig.mac
- 2 - copy new version of mgcorr.mac to local PC (backup and operating name)
copy x:\mgcorr.mac to c:\gcms\msexe\mgcorr-new.mac
copy x:\mgcorr.mac to c:\gcms\msexe\mgcorr.mac

Serial Numbers:

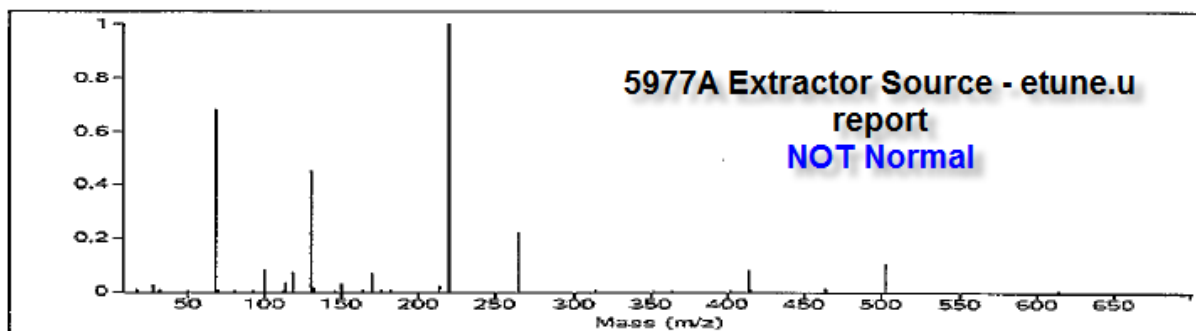
Serial Low

Serial High

Attachments:

Not Normal Tune.png

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	99	218.90	452,224	1,408,187



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	309,248	100.00	70.00	3,618	1.17
218.90	452,224	146.23	219.90	19,648	4.34
502.70	4,544	1.47	503.60	212	4.67

[mgcorr.mac](#)

Normal Tune.png

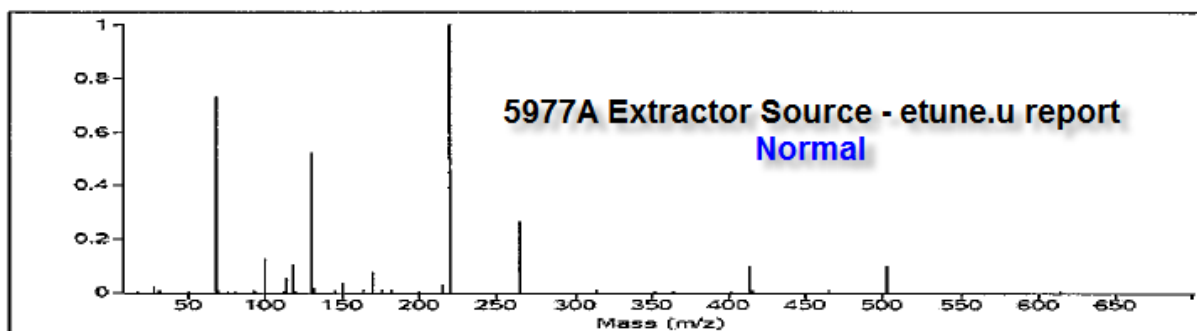
219.00	389,890	132.9%	0.60
501.90	36,770	12.5%	0.59

MS Quad

150 HI Vac

1.7

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	107	219.00	387,520	1,334,624



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.10	283,584	100.00	70.10	3,176	1.12
219.00	387,520	136.65	220.00	16,592	4.28
502.00	36,608	12.91	503.00	3,657	9.99

Additional Information:

Please note: to try and create this problem it took anywhere from 10 to 55 consecutive autotunes before we encountered this issue - the problem was bad enough to start failing the tune evaluation. The mass assignments are saved within the tune file thus the reason for copying over the new tune file.

Related Products:

Date: 7/2/2013 1:54:49 PM

Administrative Information:

Classification: Operational Impact

Standards: Labor Hours(DD:HH:MM): 0:0:15 / Travel: None
Action: Schedule As Soon As Possible
Location: Customer Installable
Inventory: None
Used Parts: None
Availability: None
No Charge Period Ends: None
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Additional Information:

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