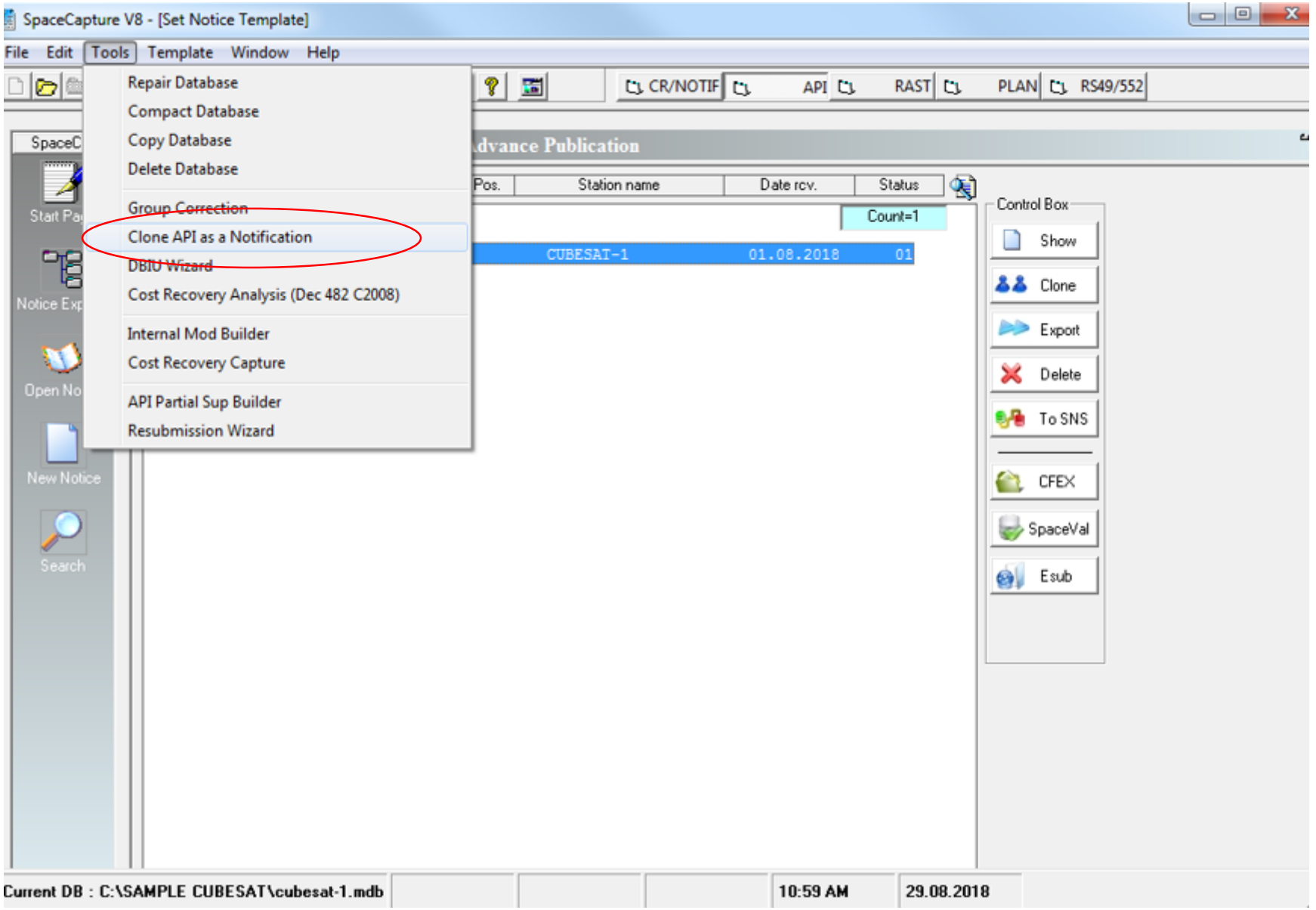
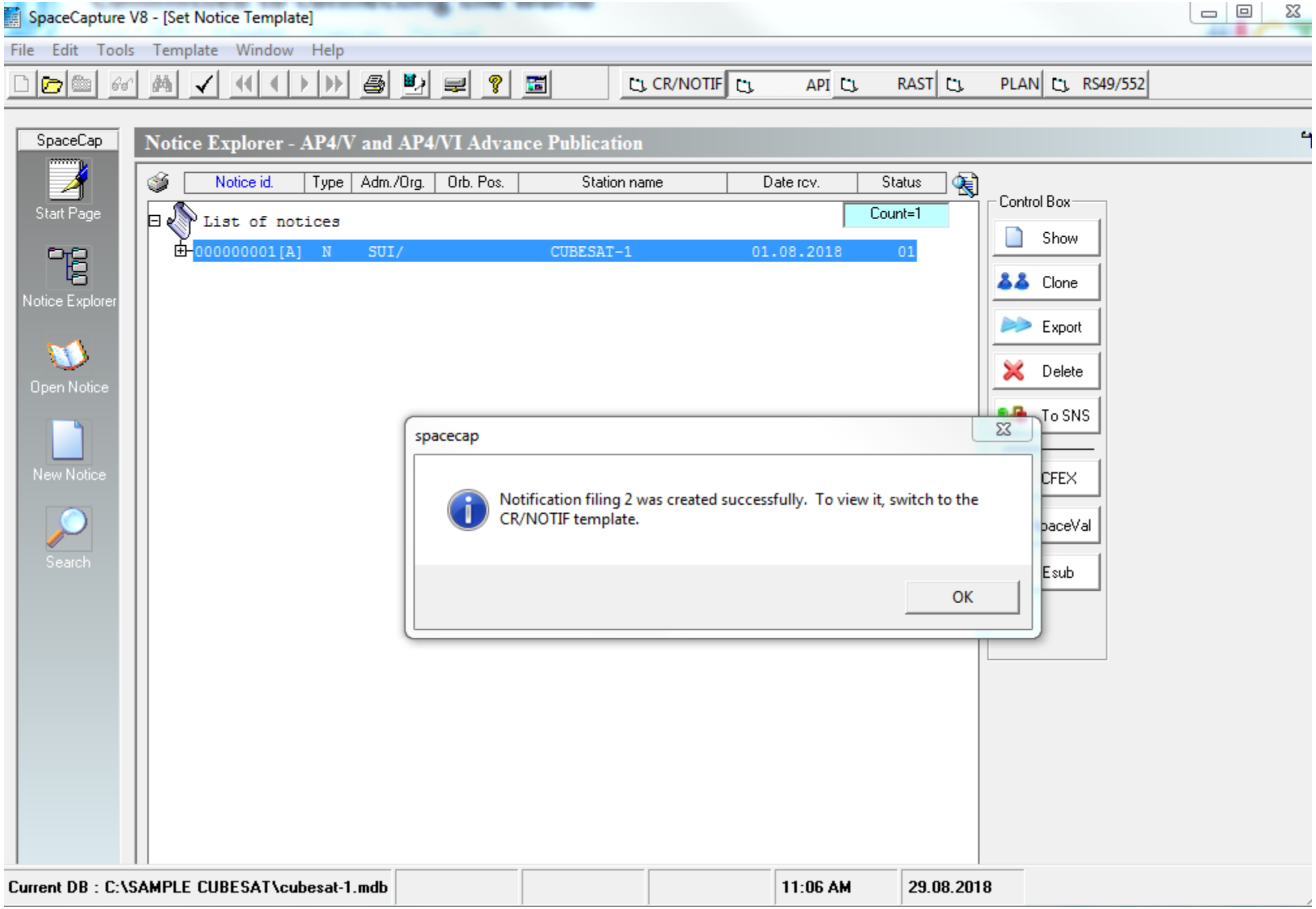
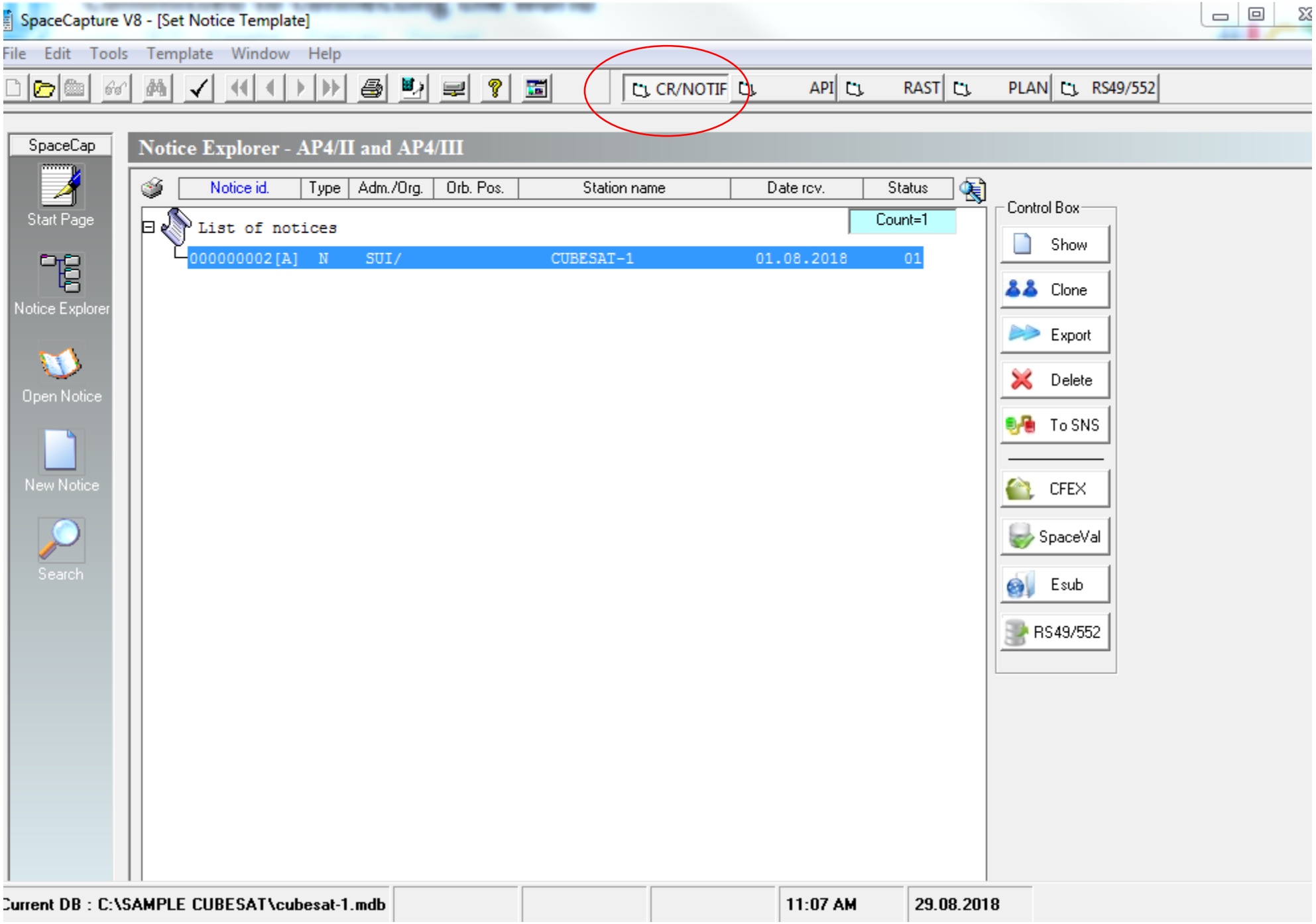
To convert API to notification

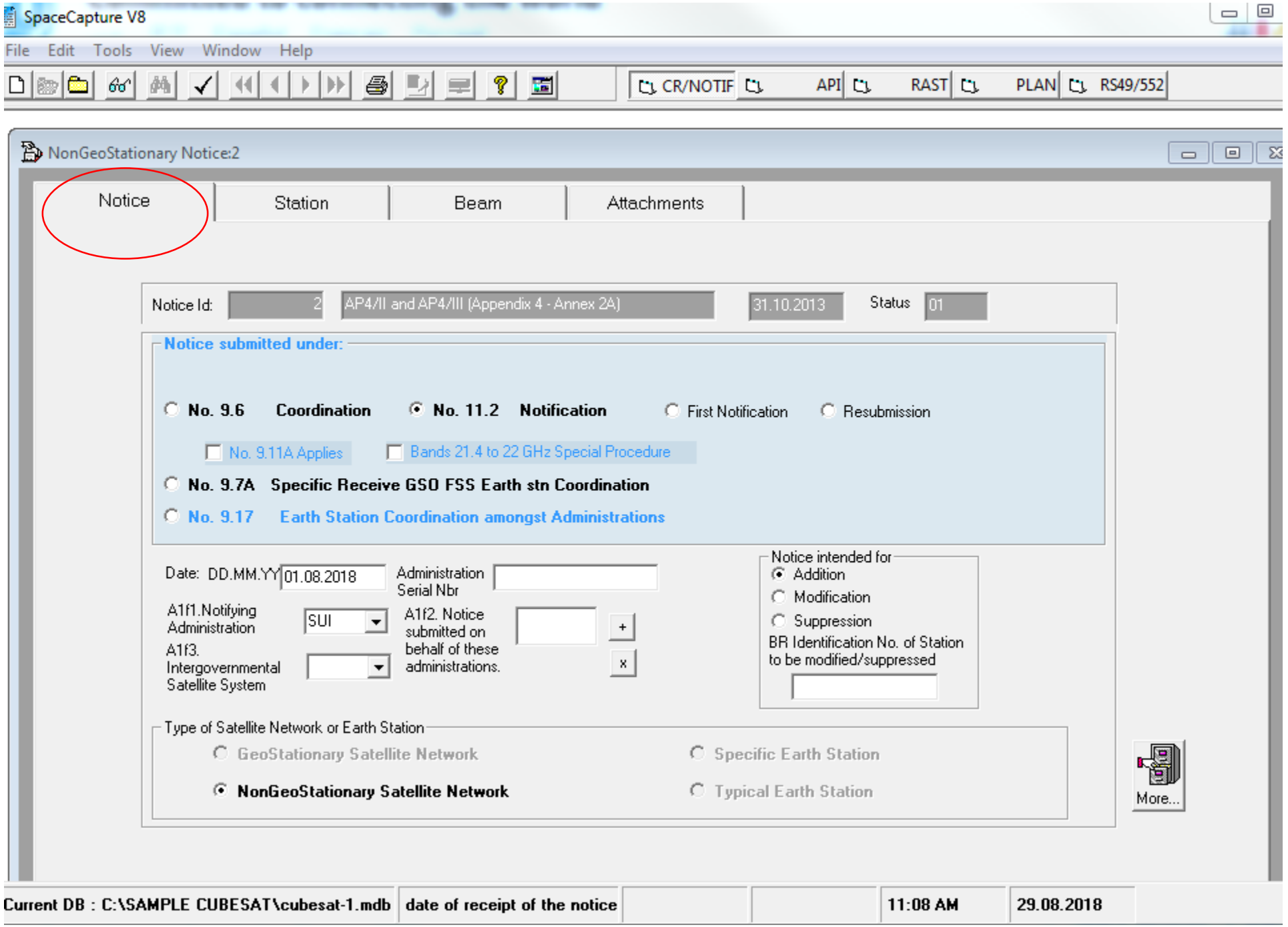
ITU-BR-SSD

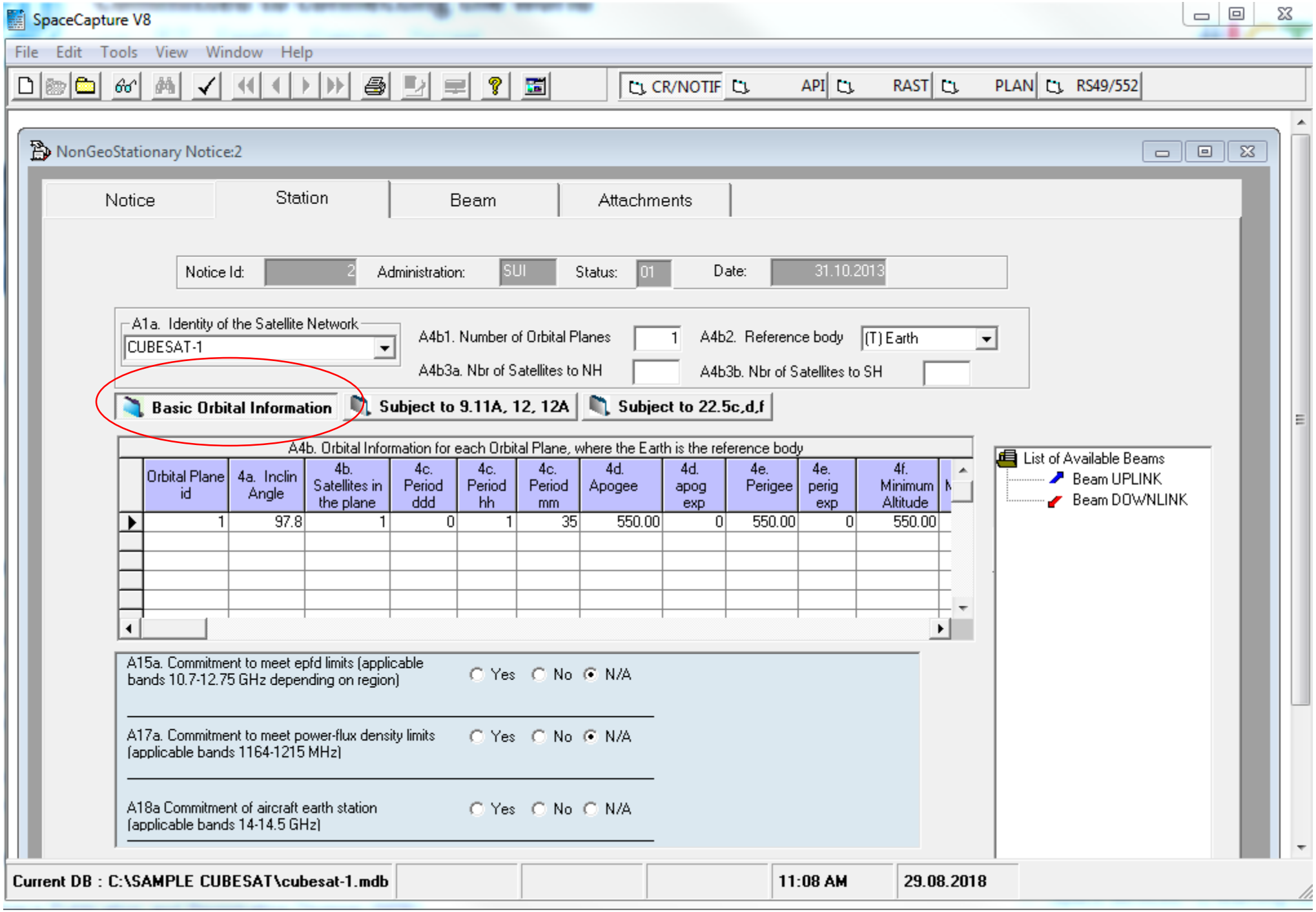
2018-9

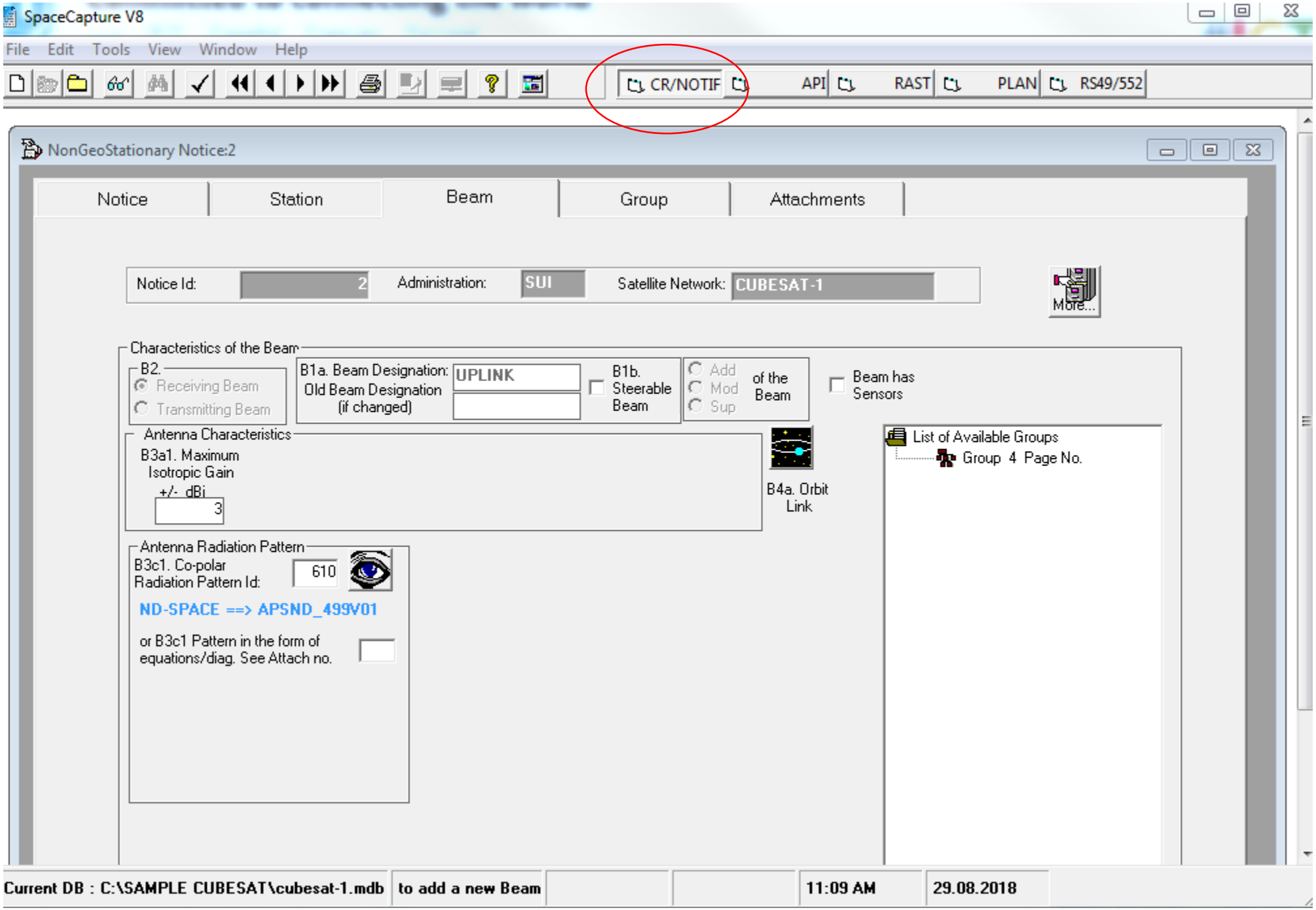

SpaceCapture V8 - [Set Notice Template]
File
Edit
Tools
Template
Window
Help
Repair Database
Compact Database
Copy Database
Delete Database
Group Correction
Clone API as a Notification
DBIU Wizard
Cost Recovery Analysis (Dec 482 C2008)
Internal Mod Builder
Cost Recovery Capture
API Partial Sup Builder
Resubmission Wizard
CR/NOTIF
API
RAST
PLAN
RS49/552
Start Pa
Notice Exp
Open No
New Notice
Search
dvance Publication
Pos.
Station name
Date rcv.
Status
Count=1
CUBESAT-1
01.08.2018
01
Control Box
Show
Clone
Export
Delete
To SNS
CFEX
SpaceVal
Esub
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
10:59 AM
29.08.2018

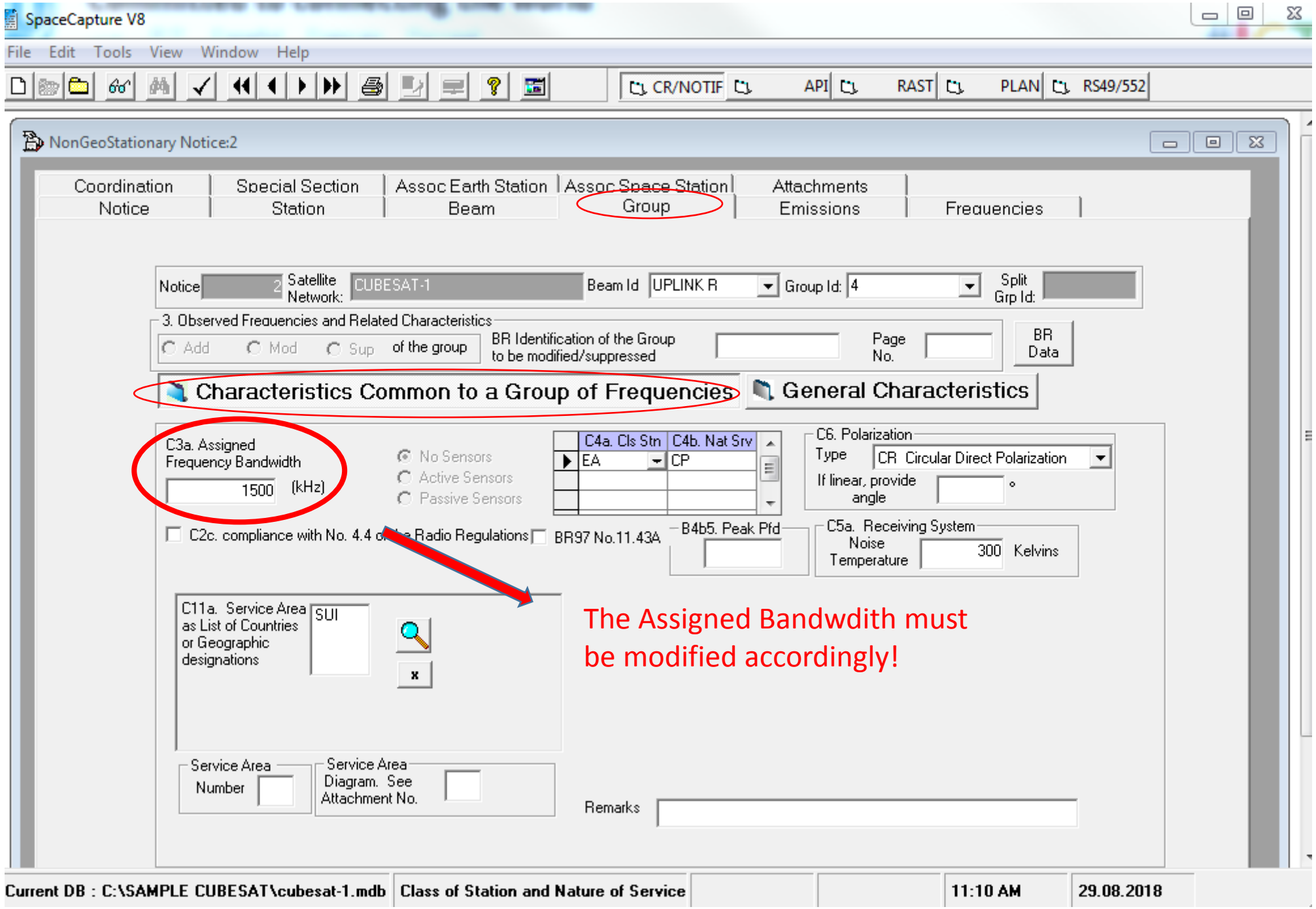

SpaceCapture V8 - [Set Notice Template]
File Edit Tools Template Window Help
CR/NOTIF API RAST PLAN RS49/552
SpaceCap
Start Page
Notice Explorer
Open Notice
New Notice
Search
Notice Explorer - AP4/V and AP4/VI Advance Publication
Notice id. Type Adm./Org. Orb. Pos. Station name Date rcv. Status
List of notices
Count=1
000000001[A] N SUI/ CUBESAT-1 01.08.2018 01
Control Box
Show
Clone
Export
Delete
To SNS
CFEX
Esub
spacecap
Notification filing 2 was created successfully. To view it, switch to the CR/NOTIF template.
OK
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
11:06 AM
29.08.2018

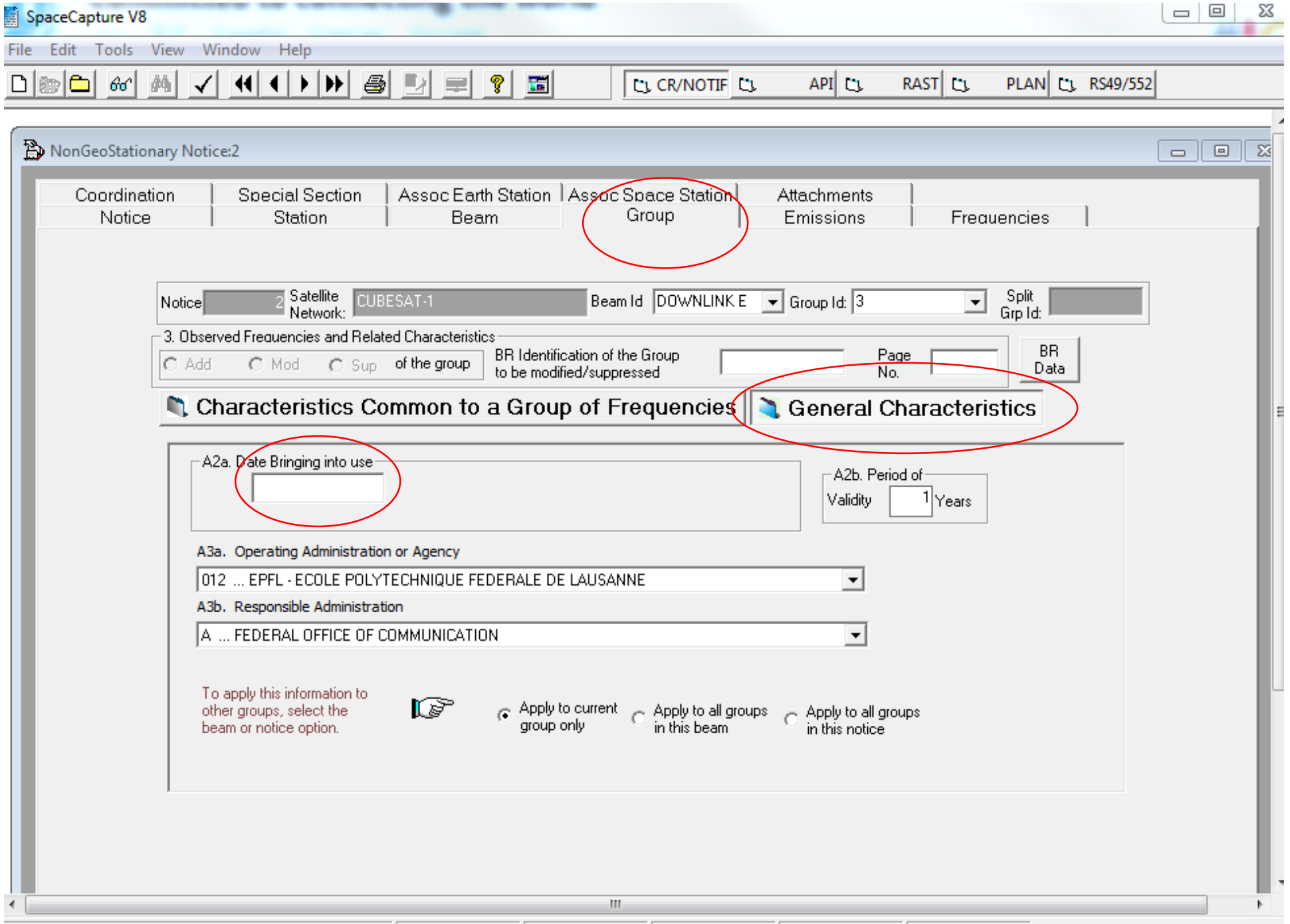

SpaceCapture V8 - [Set Notice Template]
File Edit Tools Template Window Help
CR/NOTIF API RAST PLAN RS49/552
SpaceCap
Start Page
Notice Explorer
Open Notice
New Notice
Search
Notice Explorer - AP4/II and AP4/III
Notice id. Type Adm./Org. Orb. Pos. Station name Date rcv. Status
List of notices
Count=1
000000002[A] N SUI/ CUBESAT-1 01.08.2018 01
Control Box
Show
Clone
Export
Delete
To SNS
CFEX
SpaceVal
Esub
RS49/552
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
11:07 AM
29.08.2018

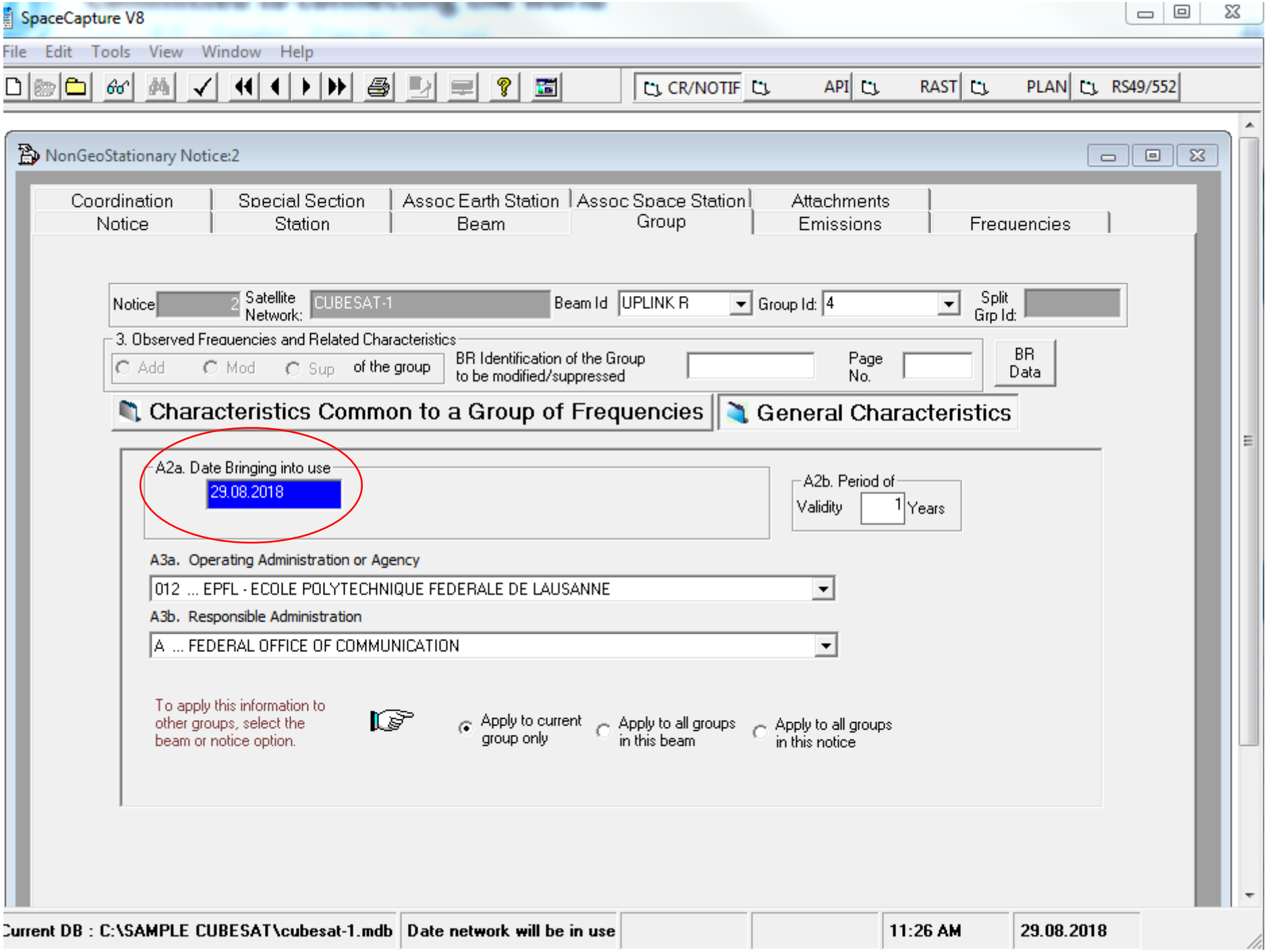

SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Notice
Station
Beam
Attachments
Notice Id: 2 AP4/II and AP4/III (Appendix 4 - Annex 2A) 31.10.2013 Status 01
Notice submitted under:
No. 9.6 Coordination
No. 11.2 Notification
First Notification
Resubmission
No. 9.11A Applies
Bands 21.4 to 22 GHz Special Procedure
No. 9.7A Specific Receive GSO FSS Earth stn Coordination
No. 9.17 Earth Station Coordination amongst Administrations
Date: DD.MM.YY 01.08.2018
Administration Serial Nbr
A1f1.Notifying Administration SUI
A1f2. Notice submitted on behalf of these administrations.
A1f3. Intergovernmental Satellite System
Notice intended for
Addition
Modification
Suppression
BR Identification No. of Station to be modified/suppressed
Type of Satellite Network or Earth Station
GeoStationary Satellite Network
Specific Earth Station
NonGeoStationary Satellite Network
Typical Earth Station
More...
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
date of receipt of the notice
11:08 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Notice Station Beam Attachments
Notice Id: 2 Administration: SUI Status: 01 Date: 31.10.2013
A1a. Identity of the Satellite Network
CUBESAT-1
A4b1. Number of Orbital Planes 1
A4b2. Reference body (T) Earth
A4b3a. Nbr of Satellites to NH
A4b3b. Nbr of Satellites to SH
Basic Orbital Information
Subject to 9.11A, 12, 12A
Subject to 22.5c,d,f
A4b. Orbital Information for each Orbital Plane, where the Earth is the reference body
Orbital Plane id | 4a. Inclin Angle | 4b. Satellites in the plane | 4c. Period ddd | 4c. Period hh | 4c. Period mm | 4d. Apogee | 4d. apog exp | 4e. Perigee | 4e. perig exp | 4f. Minimum Altitude
1 | 97.8 | 1 | 0 | 1 | 35 | 550.00 | 0 | 550.00 | 0 | 550.00
List of Available Beams
Beam UPLINK
Beam DOWNLINK
A15a. Commitment to meet epfd limits (applicable bands 10.7-12.75 GHz depending on region) Yes No N/A
A17a. Commitment to meet power-flux density limits (applicable bands 1164-1215 MHz) Yes No N/A
A18a Commitment of aircraft earth station (applicable bands 14-14.5 GHz) Yes No N/A
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
11:08 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Notice Station Beam Group Attachments
Notice Id: 2 Administration: SUI Satellite Network: CUBESAT-1
More...
Characteristics of the Beam
B2.
Receiving Beam
Transmitting Beam
B1a. Beam Designation: UPLINK
Old Beam Designation (if changed)
B1b. Steerable Beam
Add Mod Sup of the Beam
Beam has Sensors
Antenna Characteristics
B3a1. Maximum Isotropic Gain +/- dBi 3
B4a. Orbit Link
List of Available Groups
Group 4 Page No.
Antenna Radiation Pattern
B3c1. Co-polar Radiation Pattern Id: 610
ND-SPACE ==> APSND_499V01
or B3c1 Pattern in the form of equations/diag. See Attach no.
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
to add a new Beam
11:09 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Coordination Special Section Assoc Earth Station Assoc Space Station Attachments
Notice Station Beam Group Emissions Frequencies
Notice 2 Satellite Network: CUBESAT-1 Beam Id UPLINK R Group Id: 4 Split Grp Id:
3. Observed Frequencies and Related Characteristics
Add Mod Sup of the group
BR Identification of the Group to be modified/suppressed
Page No.
BR Data
Characteristics Common to a Group of Frequencies
General Characteristics
C3a. Assigned Frequency Bandwidth
1500 (kHz)
No Sensors
Active Sensors
Passive Sensors
C4a. Cls Stn C4b. Nat Srv
EA CP
C6. Polarization
Type CR Circular Direct Polarization
If linear, provide angle
C2c. compliance with No. 4.4 of the Radio Regulations
BR97 No.11.43A
B4b5. Peak Pfd
C5a. Receiving System
Noise Temperature 300 Kelvins
C11a. Service Area as List of Countries or Geographic designations
SUI
Service Area Number
Service Area Diagram. See Attachment No.
Remarks
The Assigned Bandwdith must be modified accordingly!
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
Class of Station and Nature of Service
11:10 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Coordination Notice
Special Section Station
Assoc Earth Station Beam
Assoc Space Station Group
Attachments Emissions
Frequencies
Notice 2
Satellite Network: CUBESAT-1
Beam Id DOWNLINK E
Group Id: 3
Split Grp Id:
3. Observed Frequencies and Related Characteristics
Add Mod Sup of the group
BR Identification of the Group to be modified/suppressed
Page No.
BR Data
Characteristics Common to a Group of Frequencies
General Characteristics
A2a. Date Bringing into use
A2b. Period of Validity 1 Years
A3a. Operating Administration or Agency
012 ... EPFL - ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE
A3b. Responsible Administration
A ... FEDERAL OFFICE OF COMMUNICATION
To apply this information to other groups, select the beam or notice option.
Apply to current group only
Apply to all groups in this beam
Apply to all groups in this notice


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Coordination Notice
Special Section Station
Assoc Earth Station Beam
Assoc Space Station Group
Attachments Emissions
Frequencies
Notice 2 Satellite Network: CUBESAT-1 Beam Id UPLINK R Group Id: 4 Split Grp Id:
3. Observed Frequencies and Related Characteristics
Add Mod Sup of the group
BR Identification of the Group to be modified/suppressed
Page No.
BR Data
Characteristics Common to a Group of Frequencies
General Characteristics
A2a. Date Bringing into use
29.08.2018
A2b. Period of Validity 1 Years
A3a. Operating Administration or Agency
012 ... EPFL - ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE
A3b. Responsible Administration
A ... FEDERAL OFFICE OF COMMUNICATION
To apply this information to other groups, select the beam or notice option.
Apply to current group only
Apply to all groups in this beam
Apply to all groups in this notice
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
Date network will be in use
11:26 AM
29.08.2018

SpaceCapture V8

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN RS49/552

NonGeoStationary Notice:2

Coordination Notice | Special Section Station | Assoc Earth Station Beam | Assoc Space Station Group | Attachments Emissions | Frequencies

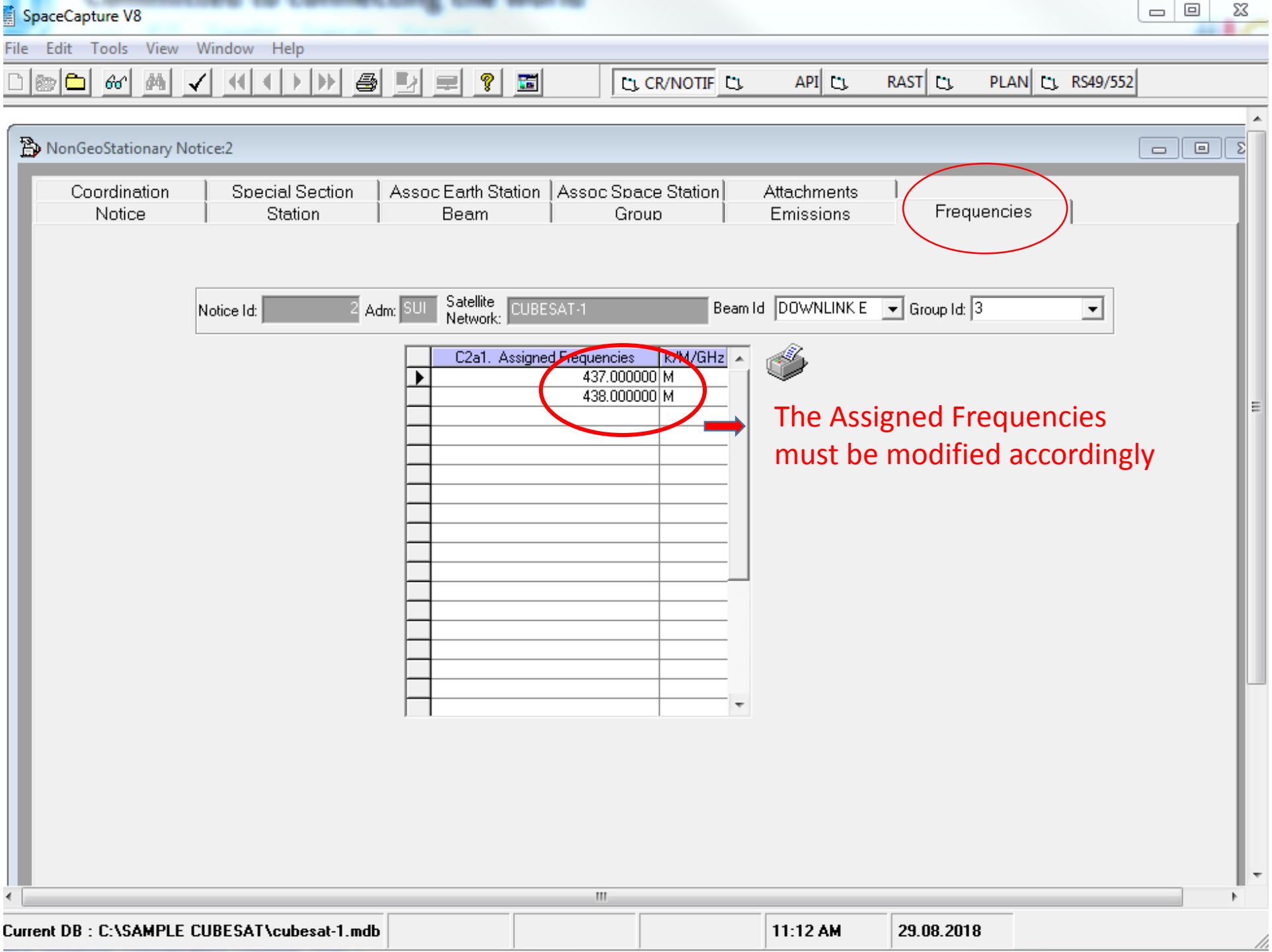
Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id DOWNLINK E Group Id: 3

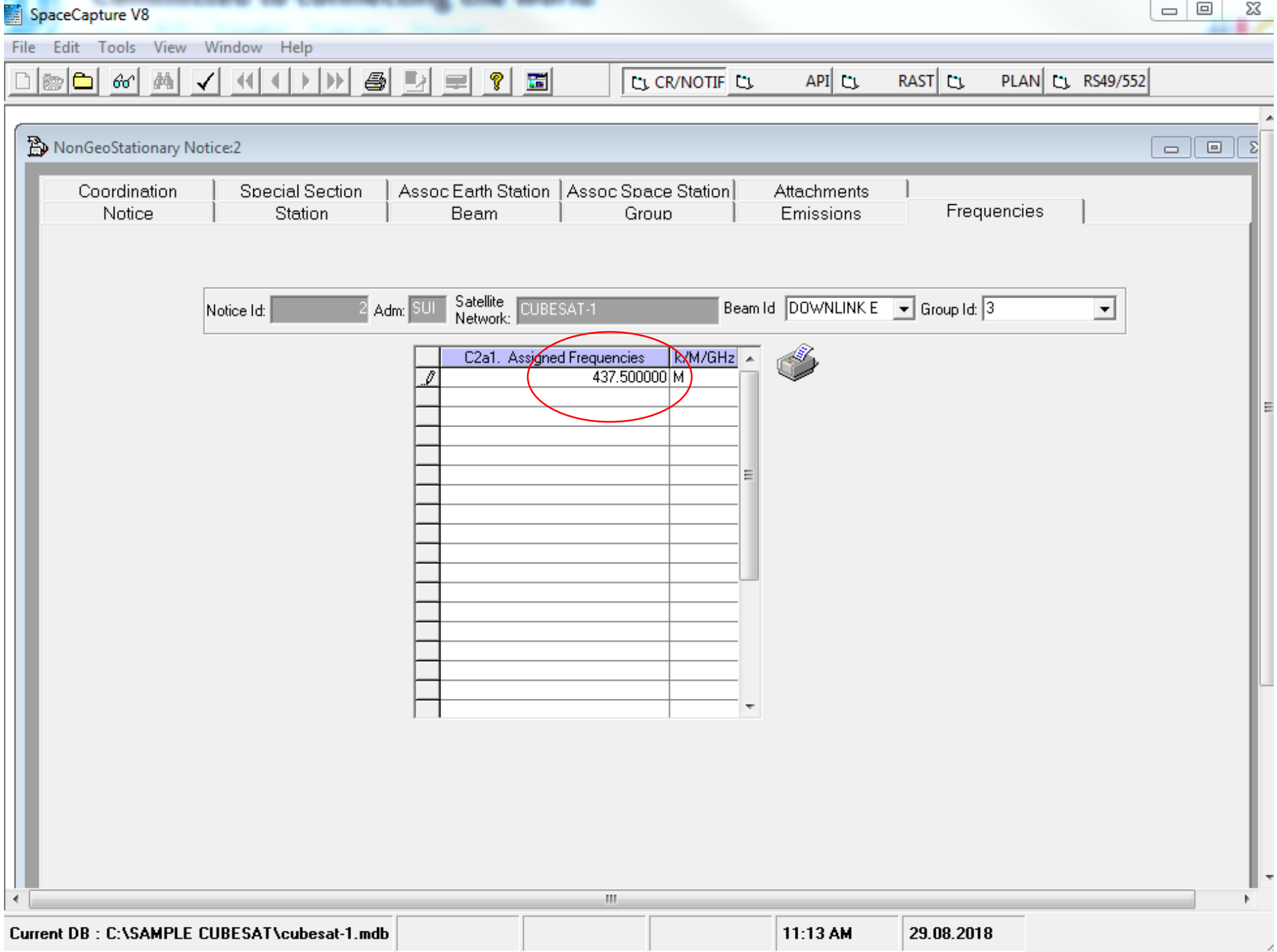
Emissions of the Associated Transmitting Stations

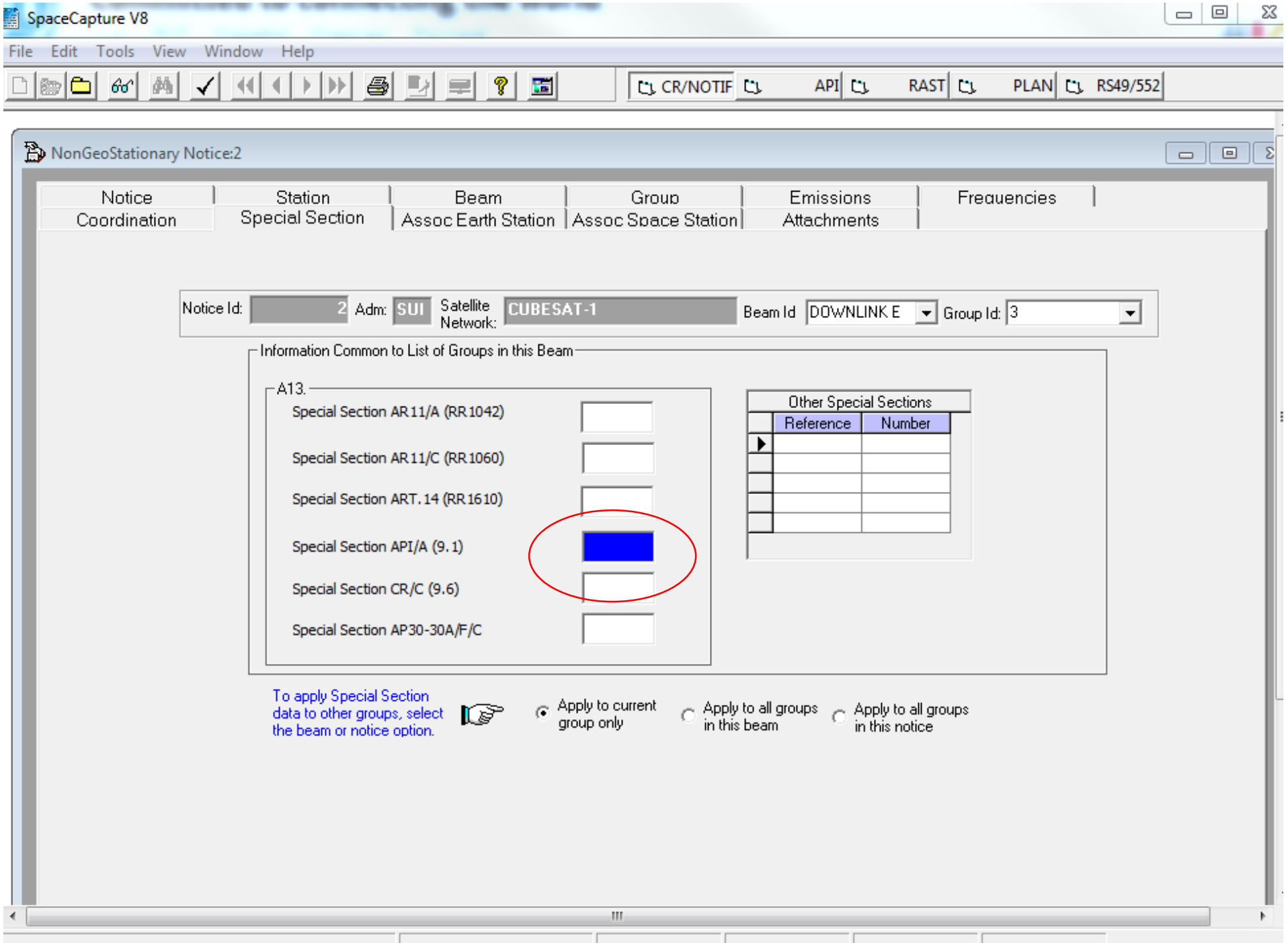
C7a. Designation of Emission	C8a1/C8b1. Maximum Peak Power (dBW)	C8a2/C8b2. Maximum Power Density	Emission of Type C8b	C8c1. Minimun Peak Power (dBW)	C8c2. Attch No. Pep	C8c3. Minimum Power Density	C8c4. Attch No. Mpd	C8e1. C/N objective (total - clear sky) (dB)	C8e2. Attch No. C/N	C9 Modulation Char
120KF1D--	0.0	-36.0	☐	0.0		-36.0		35.0		modchar

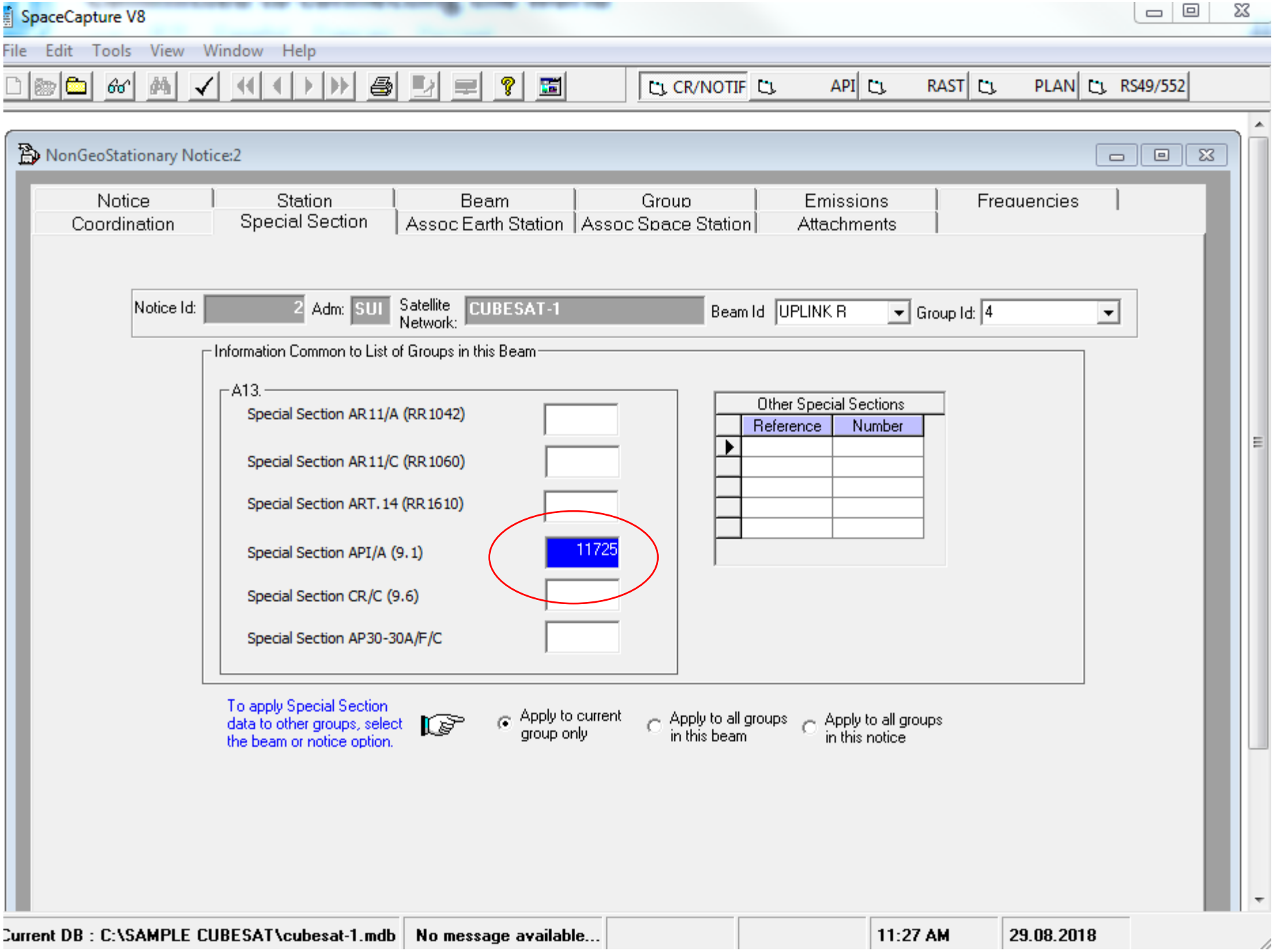
Carrier Frequencies

Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb 11:11 AM 29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Coordination Notice
Special Section Station
Assoc Earth Station Beam
Assoc Space Station Group
Attachments Emissions
Frequencies
Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id DOWNLINK E Group Id: 3
C2a1. Assigned Frequencies
kHz/MHz/GHz
437.000000 M
438.000000 M
The Assigned Frequencies must be modified accordingly
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
11:12 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Coordination Special Section Assoc Earth Station Assoc Space Station Attachments
Notice Station Beam Group Emissions Frequencies
Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id DOWNLINK E Group Id: 3
C2a1. Assigned Frequencies k/M/GHz
437.500000 M
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
11:13 AM
29.08.2018


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Notice Station Beam Group Emissions Frequencies
Coordination Special Section Assoc Earth Station Assoc Space Station Attachments
Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id DOWNLINK E Group Id: 3
Information Common to List of Groups in this Beam
A13.
Special Section AR11/A (RR1042)
Special Section AR11/C (RR1060)
Special Section ART.14 (RR1610)
Special Section API/A (9.1)
Special Section CR/C (9.6)
Special Section AP30-30A/F/C
Other Special Sections
Reference Number
To apply Special Section data to other groups, select the beam or notice option.
Apply to current group only
Apply to all groups in this beam
Apply to all groups in this notice


SpaceCapture V8
File Edit Tools View Window Help
CR/NOTIF API RAST PLAN RS49/552
NonGeoStationary Notice:2
Notice
Coordination
Station
Special Section
Beam
Assoc Earth Station
Group
Assoc Space Station
Emissions
Attachments
Frequencies
Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id UPLINK R Group Id: 4
Information Common to List of Groups in this Beam
A13.
Special Section AR11/A (RR1042)
Special Section AR11/C (RR1060)
Special Section ART.14 (RR1610)
Special Section API/A (9.1) 11725
Special Section CR/C (9.6)
Special Section AP30-30A/F/C
Other Special Sections
Reference
Number
To apply Special Section data to other groups, select the beam or notice option.
Apply to current group only
Apply to all groups in this beam
Apply to all groups in this notice
Current DB : C:\SAMPLE CUBESAT\cubesat-1.mdb
No message available...
11:27 AM
29.08.2018

SpaceCapture V8

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN RS49/552

NonGeoStationary Notice:2

Notice | Station | Beam | Group | Emissions | Frequencies

Coordination | Special Section | Assoc Earth Station | Assoc Space Station | Attachments

Notice Id: 2 Adm: SUI Satellite Network: CUBESAT-1 Beam Id: DOWNLINK E Group Id: 3

C10b2. Type of Station: (•) Specific ( ) Typical

C10b1. Associated Earth Station Name: ES_1

Old Station Name (if changed):

of the station: ( ) Add ( ) Mod ( ) Sup

	C10d1. Cls Stn	C10d2. Nat Srv
▶	TA	CP

C10c2. Country: SUI

C10c1. Geographical Coordinates

Longitude Degrees	E/W	Min	Sec	Latitude Degrees	N/S	Min	Sec
8	E	18	21	47	N	0	49

C10d. Antenna Characteristics

3. Maximum Isotropic Gain: 13 +/- dBi

4. Beamwidth: 10 Degrees

7. Diameter: Meters

6. Receiving System Noise Temperature: 400

9. Dgso: Meters

Antenna Radiation Pattern

C10d5a1. Co-polar Radiation Pattern Id: 32

AP7 ==> APERR_012V01

C10d5a2. Diagram attached. See Attachment no.:

or diagram no in Gims database

Current DB : C:\SAMPLE_CUBESAT\cubesat-1.mdb | Name of the transmitting or receiving station | 11:15 AM | 29.08.2018

Modification of characteristics

- According to **No.9.2**, amendments to the information for NGSO filing that requires a **new API** are:
  - **Additional frequency band**
  - **Modification of the direction of transmission**
  - **Modification of reference body**

Reminders before submission

- Note that frequency assignments in **notification must be covered by** frequency bands in **API**, therefore avoid submitting a very narrow frequency band at the API, in case there is a change needed during the comments/consultation process
- Always run validation tools_ **SpaceVal** before submission, make sure no fatal error
- Reminder to change the file extension from **.mdb** to **.ITU** before sending them to the BR
- As far as possible, submit **one notice** in **one mdb** file