Slot number of message 21 channel B:

See Annexe I for the received data file:
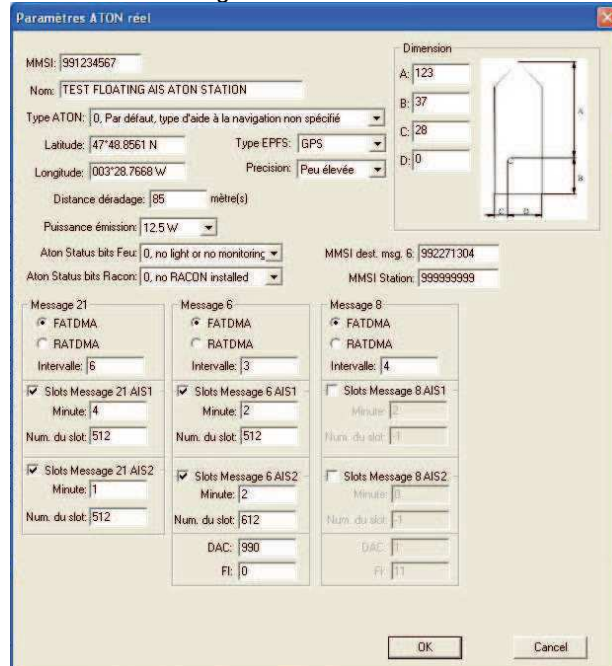
4.8.3. TESTS FATDMA MODE B
4.8.3.1. Configuration

A) configure the EUT with FATDMA mode B: slot 800

Screenshot of configuration

E) Without Acknoledgement
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E,R*40

F) Transmit sentence $AIMCR with 37 data
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E3B,R*43

G) Transmit sentence $AIMCR with 36 data
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E,R*32

4.8.3.2. TestS REPORTS FATDMA mode B

A) Access method, channel reporting are conforms :	PASS
The message content is conform :	PASS
The message 21 is always transmitted:	PASS
B) The message is always sent:	PASS
C) The message is not sent :	PASS
D) Transmitted data is correct:	PASS

Slot number of message 6 channel A:

Slot number of message 6 channel B:

See Annexe J for the received data file:

4.8.4. TESTS FATDMA MODE C
4.8.4.1. Configuration
A) configure the EUT with FATDMA mode C: slot 800

Screenshot of configuration

H) Without Acknoledgement
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E,R*40

I) Transmit sentence $AIMCR with 37 data
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
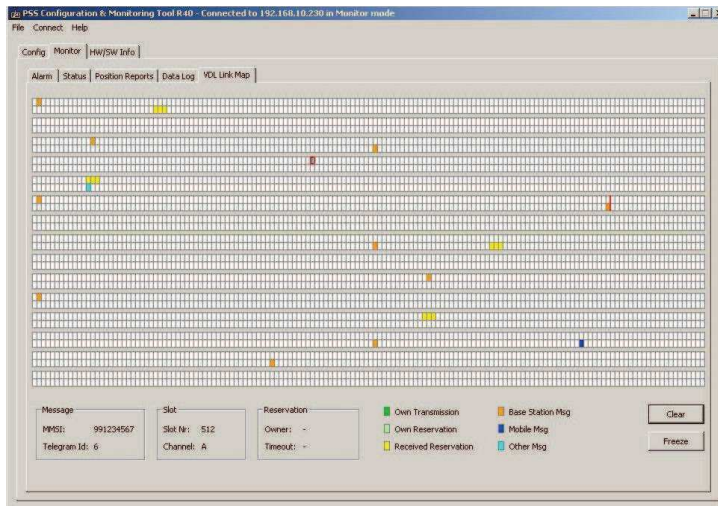C3E7E7E3B3C3E7E7E3B3C3E7E7E3B,R*43

J) Transmit sentence $AIMCR with 36 data
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E,R*32

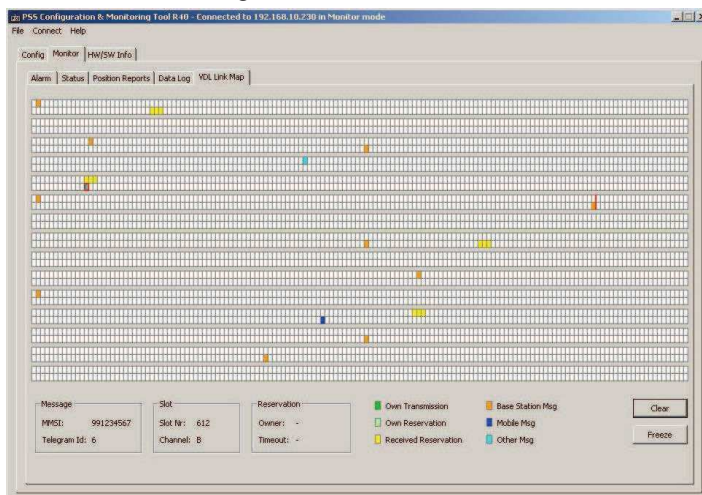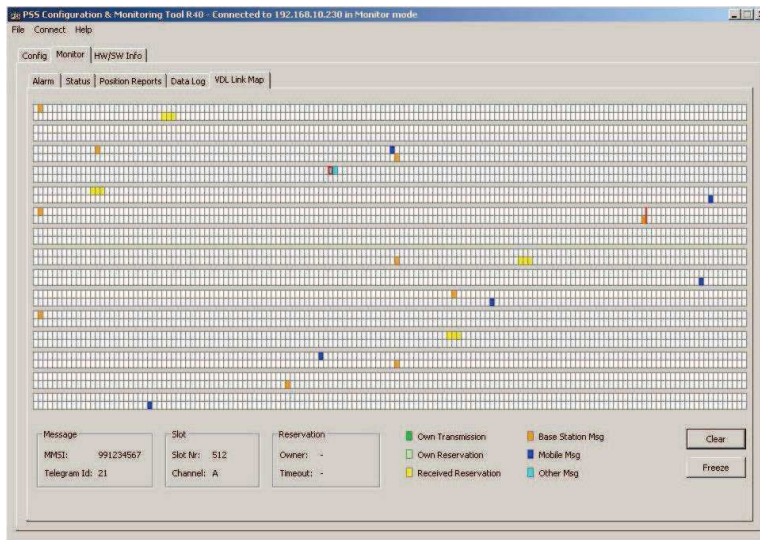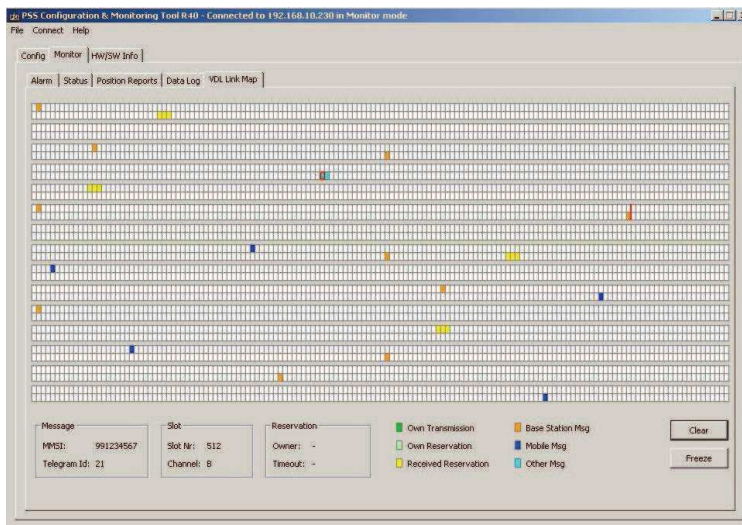### 4.8.4.2.TestS REPORTS FATDMA mode C

A)Access method, channel reporting are conforms   PASS

    The message content is conform   PASS

    The message 21 is always transmitted   PASS

B)The message is always sent   PASS

C)The message is not sent   PASS

D)Transmitted data is correct   PASS
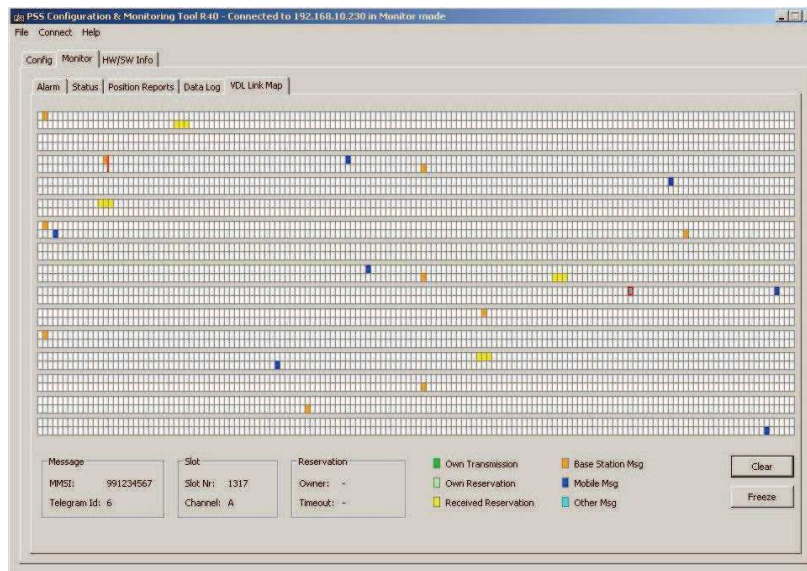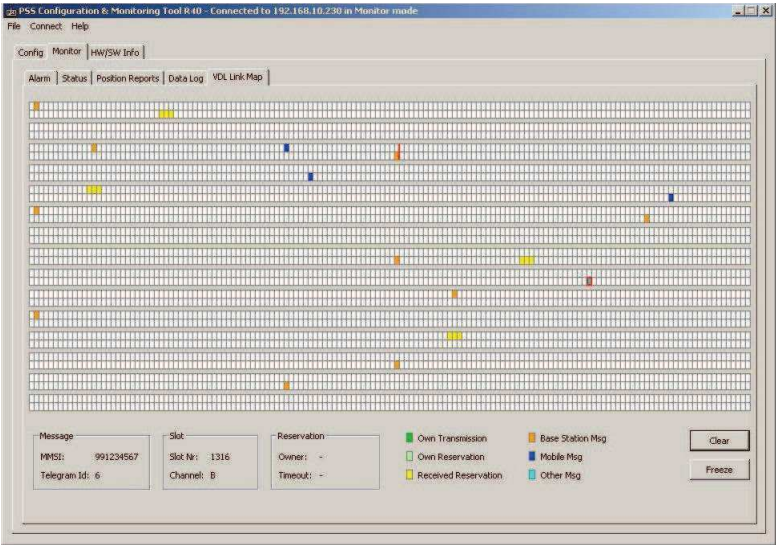
Slot number of message 6 channel A:

Slot number of message 6 channel B:

See Annexe K for the received data file:

4.8.5. TESTS RATDMA MODE A
4.8.5.1. Configuration

A) configure the EUT with RATDMA mode A

Screenshot of configuration

K) Without Acknoledgement
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E,R*40

L) Transmit sentence $AIMCR with 37 data
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E3B,R*43

M) Transmit sentence $AIMCR with 36 data
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E,R*32

4.8.5.2. TestS REPORTS RATDMA mode A

A)Access method, channel reporting are conforms : PASS
The message content is conform : PASS

The message 21 is always transmitted : PASS

B)The message is always sent: PASS

C) The message is not sent :PASS
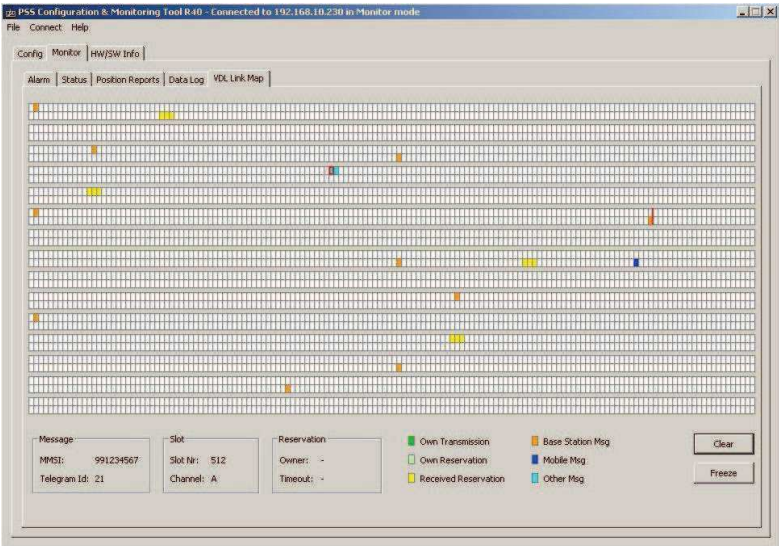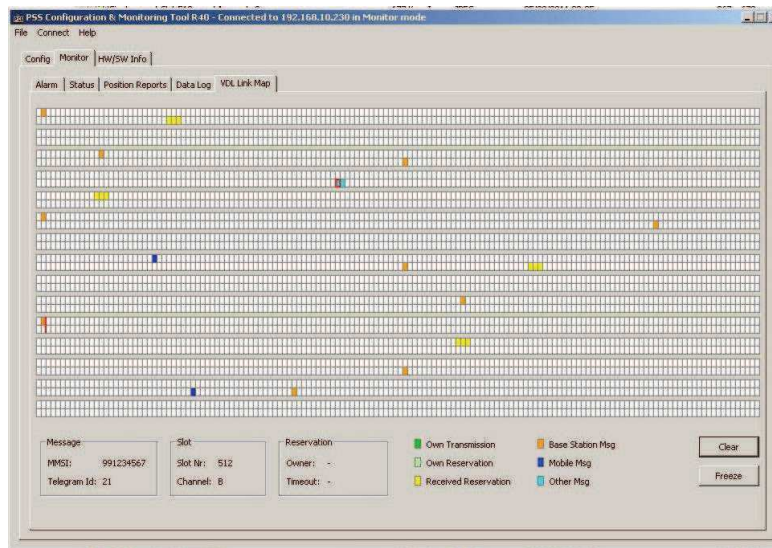
D)Transmitted data is correct : PASS

Slot number of message 6 channel A:

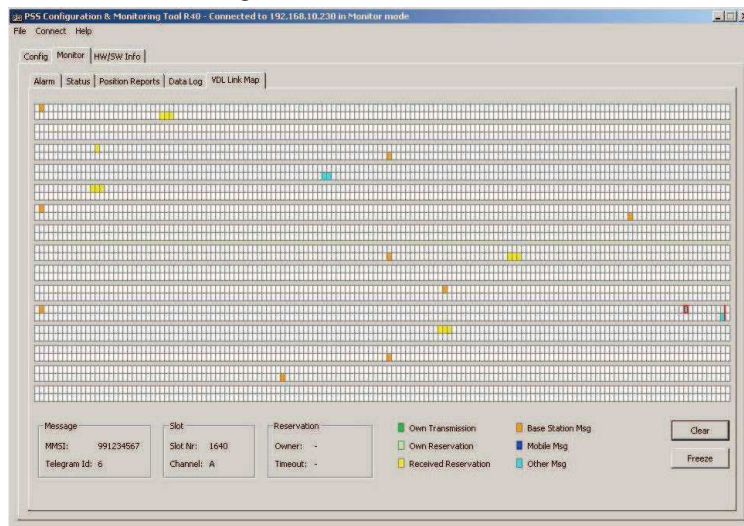Slot number of message 6 channel B:

Slot number of message 21 channel A:
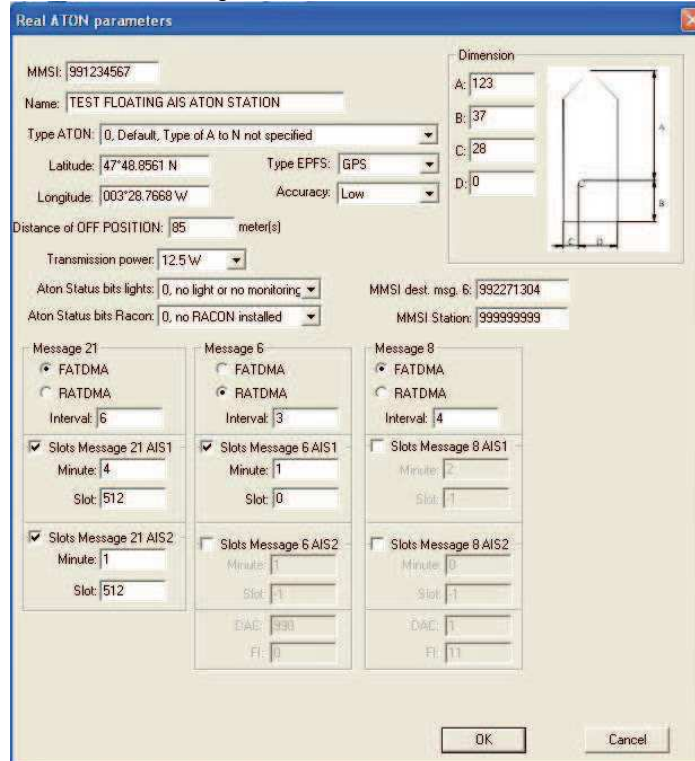

Slot number of message 21 channel B:

See Annexe L for the received data file:

4.8.6. TESTS RATDMA MODE B
4.8.6.1. Configuration

A) configure the EUT with RATDMA mode B

Screenshot of configuration

N) Without Acknoledgement
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E,R*40

O) Transmit sentence $AIMCR with 37 data
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E3B,R*43

P) Transmit sentence $AIMCR with 36 data

$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E,R*32

4.8.6.2. TestS REPORTS RATDMA mode B

A)Access method, channel reporting are conforms PASS

   The message content is conform:PASS

   The message 21 is always transmitted:PASS

B)The message is always sent:PASS

C) The message is not sent :PASS

D)Transmitted data is correct:PASS

Slot number of message 6 channel A:

Slot number of message 6 channel B:
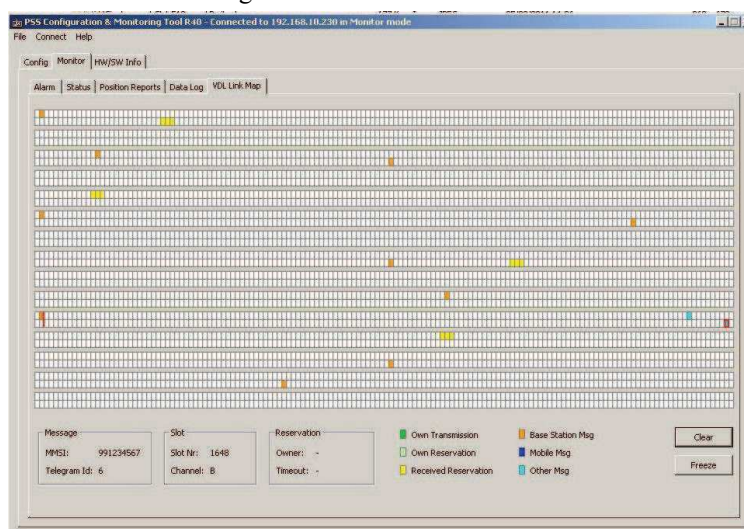
See Annexe M for the received data file:

4.8.7. TESTS RATDMA MODE C
4.8.7.1. Configuration

A) configure the EUT with RATDMA mode C
Screenshot of configuration

Q) Without Acknoledgement
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E,R*40

R) Transmit sentence $AIMCR with 37 data
NMEA SENTENCE :
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E3B,R*43

S) Transmit sentence $AIMCR with 36 data
$AIMCR,991234567,01,7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3C3E7E7E3B3
C3E7E7E3B3C3E7E7E3B3C3E7E7E,R*32

4.8.7.2.TestS REPORTS RATDMA mode C

A)Access method, channel reporting are conforms : PASS

The message content is conform : PASS

The message 21 is always transmitted: PASS

B)The message is always sent:PASS

C) The message is not sent : PASS

D)Transmitted data is correct:PASS

Slot number of message 6 channel A:
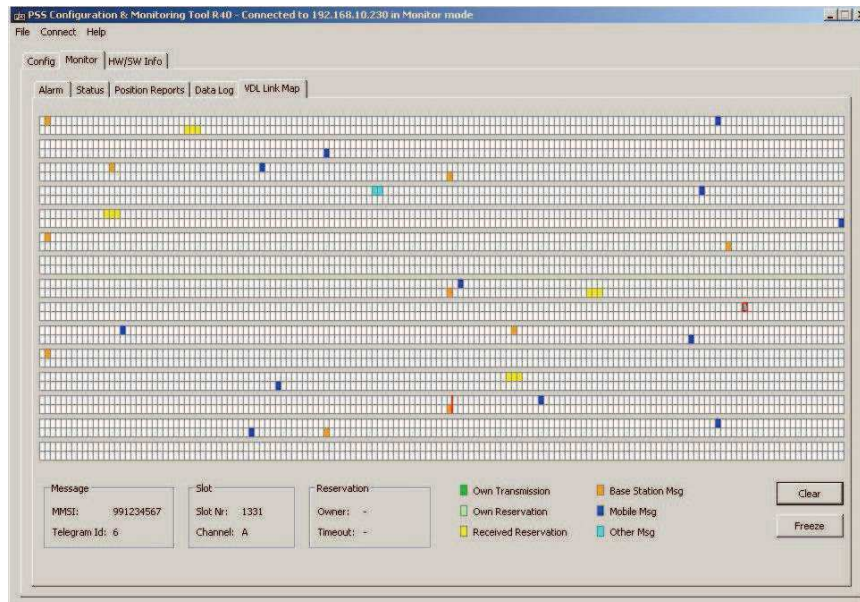
See Annexe N for the received data file:

4.9. TEST MESSAGE 8

Chap 8.1.10 IEC62320-2

4.9.1. CONFIGURATION METHOD

AtoN AIS is configured with proprietary software "KanAton3_configV1.0.1.exe"

The message 8 is define by the document "GUIDANCE ON THE APPLICATION OF AIS BINARY MESSAGES » SN/Circ.236

The following NMEA sentences are used to simulate meteo sensor.
$SENMA,25.5,60,30,250,125,-30.2,20,35.7,1017,2,12.6,-9.9,1,12.9,025,
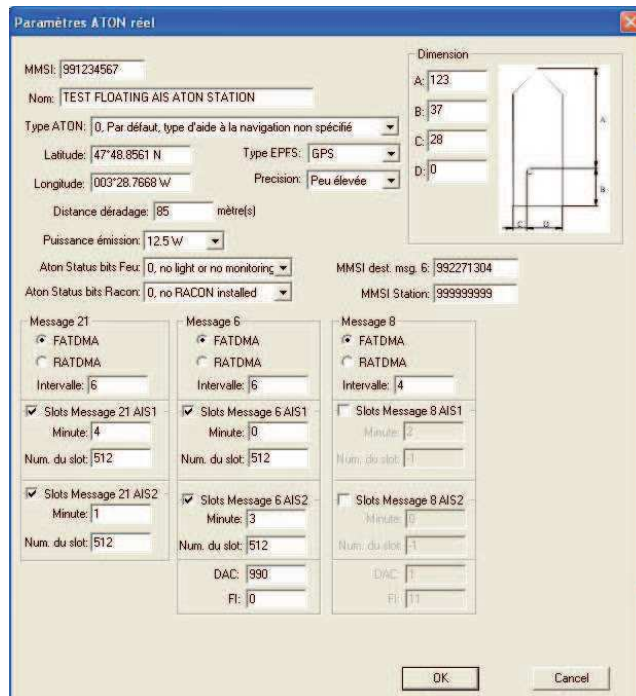$SENMB,24.3,351,28,11.9,304,1.2,23.7,32,012,02.7,
$SENMC,12,176,8,-07.9,1,48.7,2,

Parameters :

For message 21 :Idem 5.1.1 and 5.2.1

4.9.2. TESTS FATDMA MODE A
4.9.2.1. Configuration

A)configure the EUT with FATDMA mode A: slot 512

4.9.2.2.TestS REPORTS FATDMA mode A

A)The channel 1 transmissions occur in minutes 4,10,16,22,28,34,40,46,52,58 in the slot 512 :PASS

The channel 2 transmissions occur in minutes 1,7,13,19,25,31,37,43,49,55 in the slot 512 :PASS

The message content is conform :   PASS

The message 21 is always transmitted :   PASS

Transmitted data is correct :   PASS

Screenshot message 8 « default message »

| DAC	1	International
FI	11	Meteorological and Hydrographic
Latitude	47,814350	47° 48,8610' N
Longitude	-3,479267	3° 28,7560' W
Day UTC	04	
Hour UTC	15	
Minute UTC	10	
Average Wind Speed	127	Not available
Wind Gust	127	Not available
Wind Direction	511	Not available (default)
Wind Gust Direction	511	Not available (default)
Air Temperature	-0,1	°C
Relative Humidity	127	Not available
Dew Point	-0,1	°C
Air Pressure	511	Not available
Air Pressure tendency	3	Not available
Horizontal visibility	25,5	Not available
Water Level (incl tide)	51,1	Not available
Water level trend	3	Not available
Surface current speed	25,5	Not available
Surface current direction	511	Not available (default)
Current speed, #2	25,5	Not available
Current direction, #2	511	Not available (default)
Current measuring level, #2	3,1	Not available
Current speed, #3	25,5	Not available
Current direction, #3	511	Not available (default)
Current measuring level, #3	3,1	Not available
Significant wave height	25,5	Not available
Wave period	63	System is inoperative
Wave Direction	511	Not available (default)
Swell height	25,5	Not available
Swell period	63	System is inoperative
Swell direction	511	Not available (default)
Sea State	15	Not available
Water temperature	-0,1	°C
Precipitation (type)	7	Not available
Salinity	51,1	Not available (default)
Ice	3	Not available
Spare	0	6 bits

Screenshot message 8 with the sentences

$SENMA,25.5,60,30,250,125,-30.2,20,35.7,1017,2,12.6,-9.9,1,12.9,025,

$SENMB,24.3,351,28,11.9,304,1.2,23.7,32,012,02.7,

$SENMC,12,176,8,-07.9,1,48.7,2,

| DAC	1	International
FI	11	Meteorological and Hydrographic
Latitude	47,814520	47° 48,8711' N
Longitude	-3,479183	3° 28,7510' W
Day UTC	04	
Hour UTC	15	
Minute UTC	01	
Average Wind Speed	60	Average for last 10 minutes
Wind Gust	30	Average for last 10 minutes
Wind Direction	250	° (degrees)
Wind Gust Direction	125	° (degrees)
Air Temperature	29,8	°C
Relative Humidity	20	% (percent)
Dew Point	-46,7	°C
Air Pressure	217	1017 hPa
Air Pressure tendency	2	Increasing
Horizontal visibility	12,6	Nautical Miles
Water Level (incl tide)	0,1	Meters
Water level trend	1	Decreasing
Surface current speed	12,9	Knots
Surface current direction	25	° (degrees)
Current speed, #2	24,9	Knots
Current direction, #2	351	° (degrees)
Current measuring level, #2	3,0	Meters
Current speed, #3	5,9	Knots
Current direction, #3	304	° (degrees)
Current measuring level, #3	0,1	Meters
Significant wave height	23,7	Meters
Wave period	32	Second of UTC timestamp
Wave Direction	12	° (degrees)
Swell height	2,7	Meters
Swell period	12	Second of UTC timestamp
Swell direction	176	° (degrees)
Sea State	8	Gale
Water temperature	2,1	°C
Precipitation (type)	1	
Salinity	48,7	‰ (perthousand)
Ice	2	Invalid
Spare	0	6 bits

Slot number of message 8 channel A:
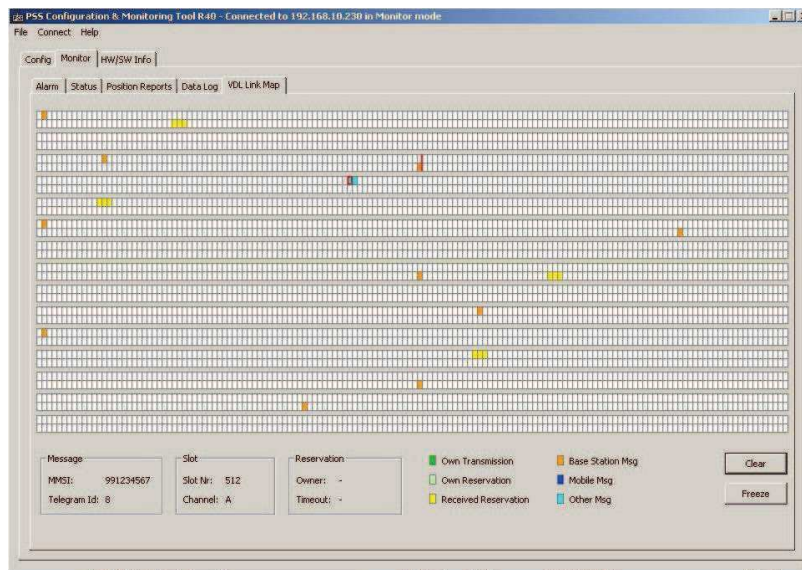
Slot number of message 8 channel B:
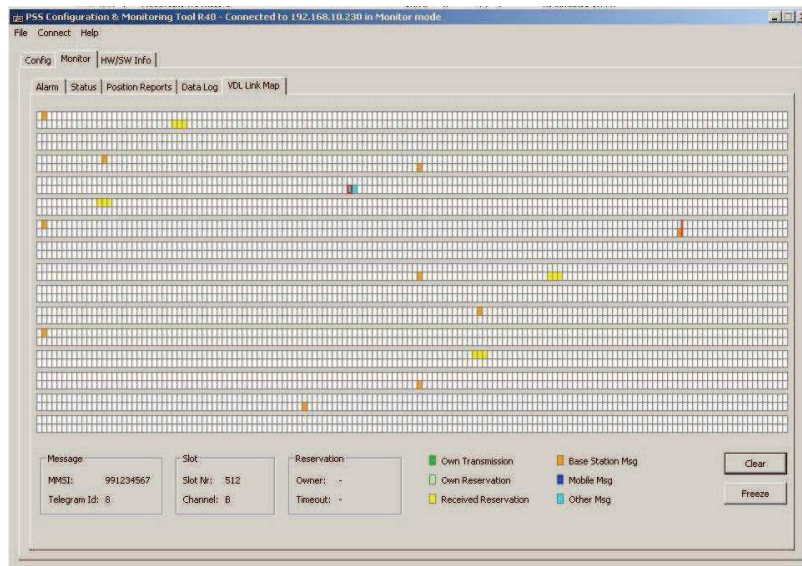
Slot number of message 21 channel A:
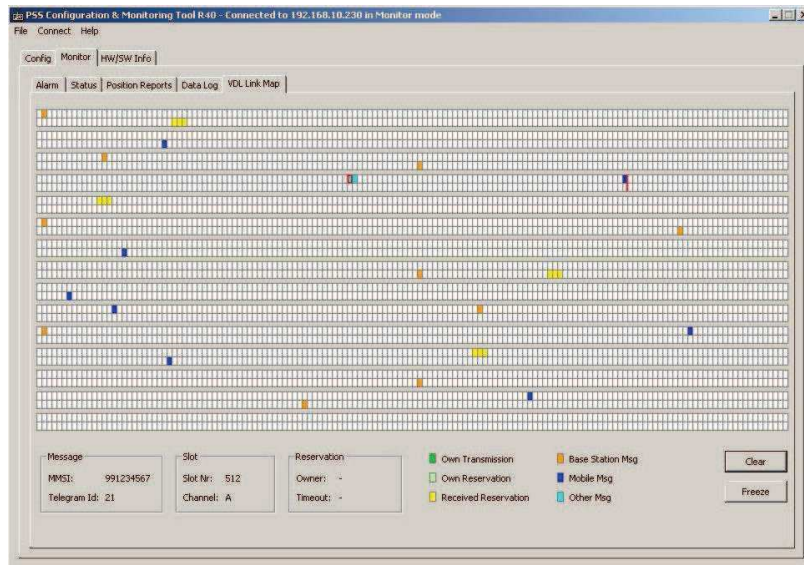
Slot number of message 21 channel B:
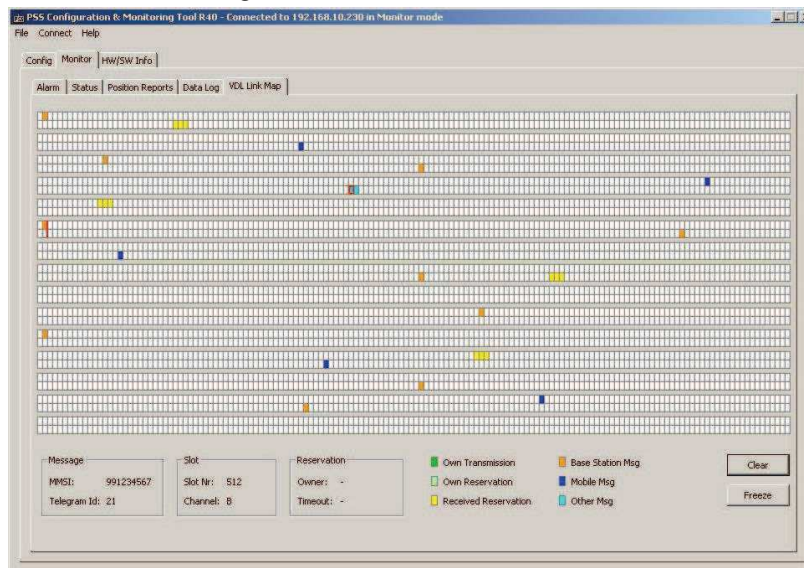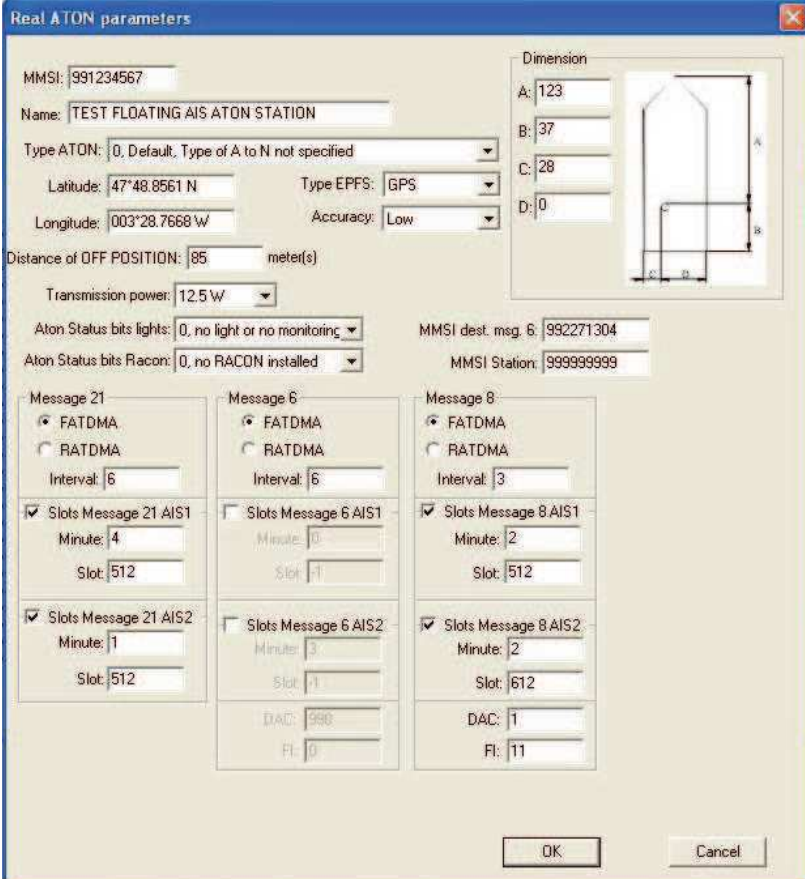
See Annexe O for the received data file:

4.9.3. TESTS FATDMA MODE B
4.9.3.1. Configuration

A) configure the EUT with FATDMA mode B: slot 512

4.9.3.2. TestS REPORTS FATDMA mode B

A) Access method, channel reporting are conforms :   PASS

    The message content is conform: PASS

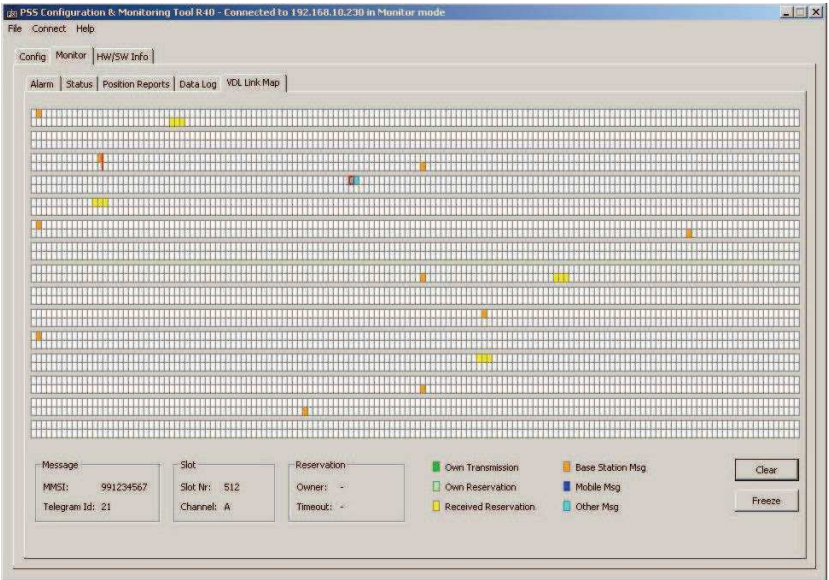   The message 21 is always transmitted: PASS

    Transmitted data is correct: PASS
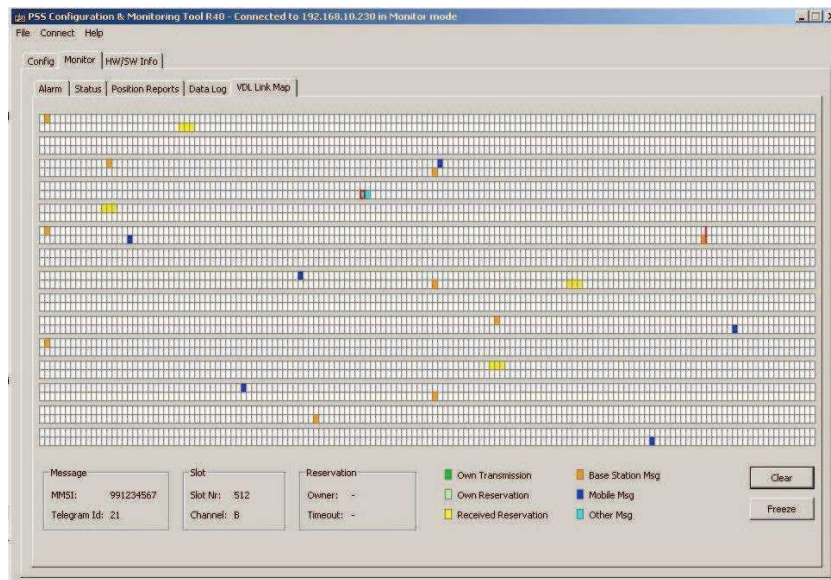
Slot number of message 8 channel A:
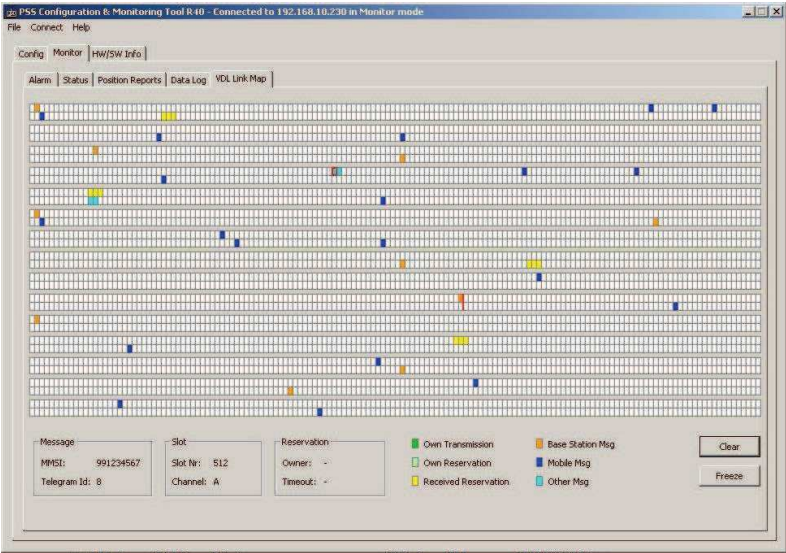
Slot number of message 8 channel B:
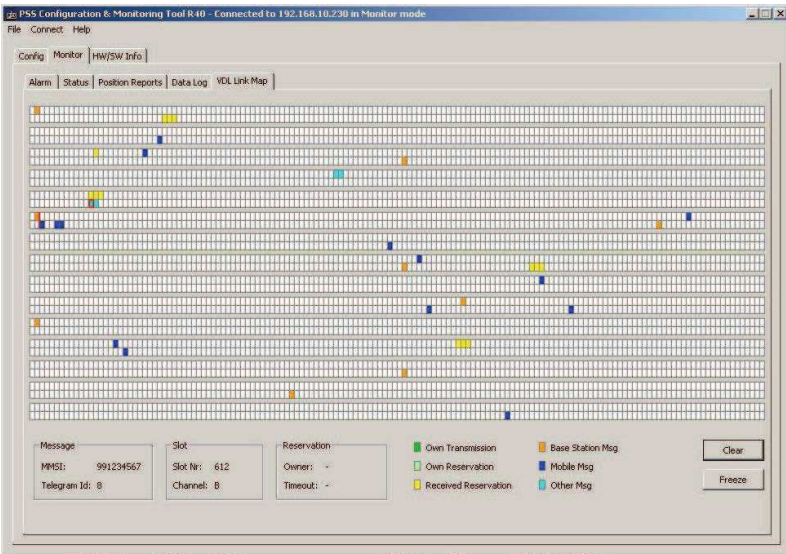
Slot number of message 21 channel A:
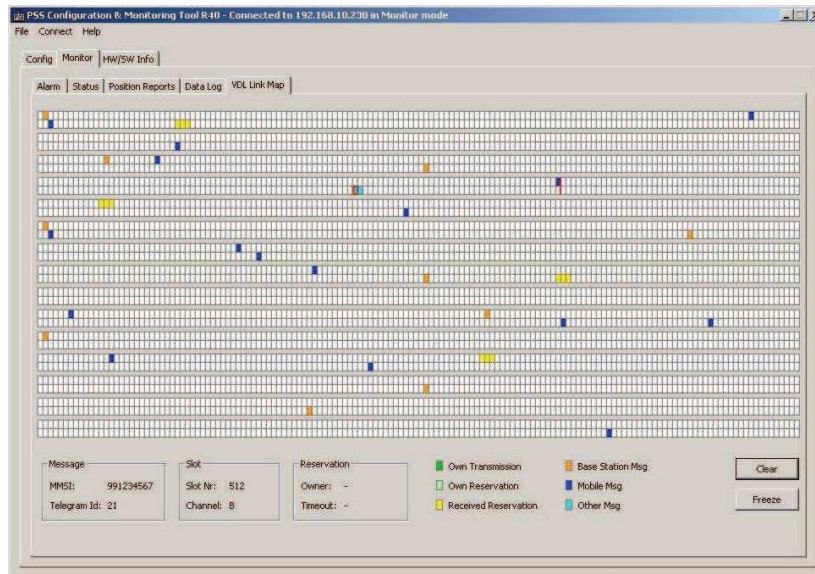
Slot number of message 21 channel B:
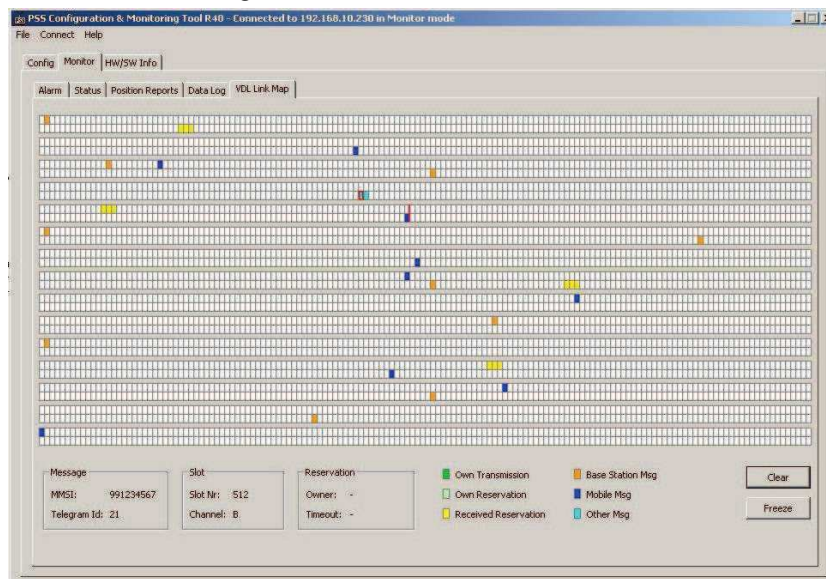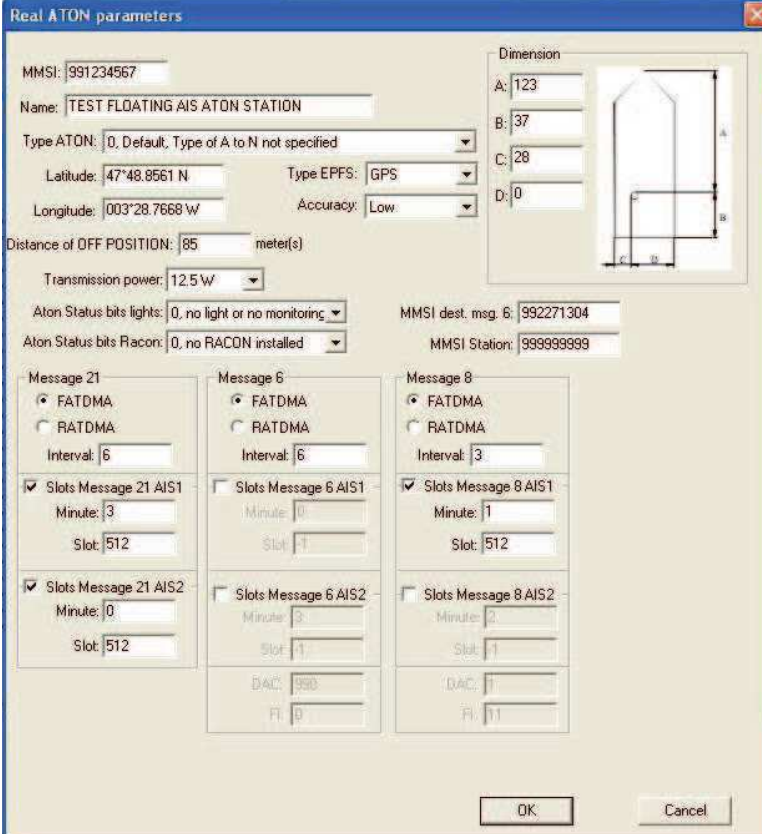
See Annexe P for the received data file:

4.9.4. TESTS FATDMA MODE C
4.9.4.1. Configuration

A)configure the EUT with FATDMA mode C: slot 800

4.9.4.2. TestS REPORTS FATDMA mode C

A)Access method, channel reporting are conforms :PASS

The message content is conform :PASS

The message 21 is always transmitted :PASS

Transmitted data is correct:PASS

Slot number of message 8 channel A:

Slot number of message 21 channel A:

Slot number of message 21 channel B:

See Annexe Q for the received data file:

4.9.5. TESTS RATDMA MODE A
4.9.5.1. Configuration

A) configure the EUT with RATDMA mode A

4.9.5.2. TestS REPORTS RATDMA mode A

A) Access method, channel reporting are conforms :	PASS
The message content is conform :	PASS
The message 21 is always transmitted:	PASS
Transmitted data is correct:	PASS