



RC-032-PTE-13-100635-2-A

"This report cancels and replaces the test report N° RC-032-PTE-13-100635-2-A Edition 0"

E.M.C Test Report

According to the standard:

FCC PART 15: 2013

Equipment under test:

Mini SPY Green with RF module at 902 MHz FCC ID: W4510255

Company:

JRI Maxant

FCC listed: 910 701

DISTRIBUTION: Mr. PEYRICHOU

(Company: JRI Maxant)

Number of pages: 25 with 4 annexes

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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole production of the item tested.





TEST CERTIFICATION FOR: **FCC Certification** SIRIUS BOX with RF module 902 MHz and GPRS Sierra NAME OF THE EQUIPMENT UNDER TEST: wireless Serial number: NAME OF THE MANUFACTURER: JRI Maxant ADDRESS OF THE APPLICANT: JRI Maxant Company: Address: 116 quai de Bezons BP 20085 95101 ARGENTEUIL Cedex Mr PEYRICHOU Person in charge: DATES OF TESTS: 04, 05 and 25/06/2013 Open area test site in Aunainville (28) - FRANCE **TESTS LOCATIONS:** EMITECH Laboratory in Montigny le Bretonneux (78) -France F. LHEUREUX **TESTS OPERATOR:**



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1. INTRODUCTION

This document presents the results of Electromagnetic Compatibility tests performed on the equipments **«Mini SPY Green»** according to reference documents listed below.

2. REFERENCE DOCUMENTS

FCC Part 15: 2013

Code of Federal Regulations
Title 47- Telecommunication
Chapter 1- Federal Communication Commission
Part 15- Radio frequency devices

ANSI C63.4: 2003

Methods of Measurement of Radio-Noise Emissions from Low-voltage Electrical and Electronics Equipment in the range of 9 kHz to 40 GHz.

3. PRODUCT DESCRIPTION

Operating frequency range: From 902 MHz to 928 MHz

Number of channels: 1 for Mini SPY Green

Channel spacing: -

Power source: 3.6 Vdc for Mini SPY Green

120 Vac / 60 Hz for SIRIUS BOX

Firmware application: -

Power level, frequency range and channels characteristics are not user adjustable. The details pictures of the product and the circuit boards are joined with this file.

Modification of the equipment during the tests: No.



4. TESTS AND CONCLUSION

The following tables summarize test results of the EUT.

Subpart B of the standard FCC part 15 – Unintentional radiators

| Test procedure | Designation of test | Test results | | | | Comments |
|------------------|---|--------------|------|------|------|----------|
| l rest procedure | Designation of test | Pass | Fail | N.A. | N.P. | Comments |
| 15.107 | Measurement of conducted emission on AC mains ports | | Х | | | |
| 15.109 | Radiated emission limits | Х | | | | |
| 15.111 | Antenna power conduction limits for receivers | | | Х | | |

Subpart C of the standard FCC part 15 – Intentional radiators

| Toot procedure | Designation of test | | Tes | Comments | | |
|----------------|--|------|------|----------|------|----------|
| Test procedure | Designation of test | Pass | Fail | N.A. | N.P. | Comments |
| 15.203 | Antenna requirement | Х | | | | |
| 15.205 | Restricted bands of operation | Х | | | | |
| 15.207 | Measurement of conducted emission on AC mains ports | | | Х | | |
| 15.209 | Radiated emission limits; general requirements | Χ | | | | |
| 15.212 | Modular transmitters | | | Χ | | |
| 15.215 | Additional provisions to the general radiated emission limitations | | | | | |
| | (a) Alternative to general radiated emission limits | Χ | | | | |
| | (b) Unwanted emissions outside of § 15.249 frequency bands | Х | | | | |
| | (c) 20 dB bandwidth and band-edge compliance | Χ | | | | |
| 15.249 | Intentional radiated emissions | | | | | |
| | a) Field strength fundamental + harmonics in the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz | Х | | | | |
| | b) Fixed point to point operation in the band 24.0- 24.25 GHz | | | | | |
| | b) (1) Field strength | | | Χ | | |
| | b) (2) Frequency tolerance for temperature variation and for variation voltage | | | Χ | | |
| | b) (3) Gain antenna | | | Χ | | |
| | c) Test at 3 m | Χ | | | | |
| | d) Outside bands (spurious 50 dB or 15.209) | Х | | | | |
| | e) Possibility measurement in peak detector (> 1 GHz) | Х | | | | |

N.A.: Not Applicable

N.P.: Not Performed



Conclusion:

The tested sample "Mini SPY Green" submitted to the tests complies with the requirements of the standard:

> FCC PART 15: 2013

According to the limits specified in this report.



5. <u>INTENTIONAL RADIATED EMISSIONS</u>

Standard: FCC PART 15: 2013

Section: 15.249 (a)

Test configuration:

The system is tested in an open area test site (OATS).

The test unit is placed on a rotating table, 0.8 m from a ground plane. Zero degree azimuth corresponds to the front of the equipment under test.

The level was maximised in antenna height, azimuth and polarization. The maximum level measured on the spectrum analyser was recorded.

Distance of antenna: 3 meters

Instrumentation test list:

| CATEGORY | BRAND | TYPE | Nr EMITECH |
|---------------------|-----------------------|-------------|------------|
| Antenna | Schwarzbeck | UHALP 9108 | 3106 |
| Antenna mast | Maturo | AM 4.0-O | 7625 |
| Antenna mast | Maturo | MCU | 7626 |
| Cable | Câbles & Connectiques | N-13m | 2452 |
| Cable | - | N-2m | 2805 |
| Cable | C&C | N-15m | 10229 |
| Open area test site | Emitech | Aunainville | 0187 |
| Power supply | Sodilec | SDR 60/10 | 0213 |
| Receiver | Rohde & Schwarz | ESVS10 | 1216 |

Equipment under test operating condition:

The equipments under test are in continuous transmission mode.



Measure conditions:

Ambient temperature (°C): 20 Relative humidity (%): 60

Resolution bandwidth: 120 kHz

Results:

- <u>For Mini SPY Green</u> Power source: 3.6 Vd.c

Polarization of test antenna: Vertical (height: 217 cm)

Position of equipment: Azimuth: 103°

(902.458 MHz)

| | | Electro-magnetic | Limit | |
|-------------|-----------------|------------------|--------|-------|
| | | field (dBµV/m) | dBμV/m | μV/m |
| Normal test | Nominal power | 84.1 | 94.0 | 50000 |
| conditions | source (V): 3.6 | 04.1 | 74.0 | 30000 |

<u>Test conclusion</u>: Complies with modification.



6. <u>ADDITIONAL PROVISIONS TO THE GENERAL RADIATED EMISSIONS LIMITATION</u>

Standard: FCC PART 15: 2013

Section: 15.215 (b) and 15.249 (d)

Instrumentation test list:

| CATEGORY | BRAND | TYPE | Nr EMITECH |
|---------------------|-----------------------|-----------------------------|------------|
| Antenna | Schwarzbeck | UHALP 9108 | 3106 |
| Antenna | Schwarzbeck | VHA 9103 | 0317 |
| Antenna | Emco | 3115 | 3374 |
| Antenna mast | Maturo | AM 4.0-O | 7625 |
| Antenna mast | Maturo | MCU | 7626 |
| Cable | Câbles & Connectiques | N-13m | 2452 |
| Cable | - | N-2m | 2805 |
| Cable | Câbles & Connectiques | N-SMA | 2864 |
| Cable | C&C | N-5m | 10029 |
| Filter | Trilithic | 6HC1300-2.5-KK | 1097 |
| Filter | Trilithic | 5EHLX500-3-KK | 1529 |
| Filter | Micro-tronics | HPM 14758 | 4691 |
| Open area test site | Emitech | Aunainville | 0187 |
| Power supply | Sodilec | SDR 60/10 | 0213 |
| Preamplifier | MITEQ | AFS42-00102650-42-10P-42 | 3229 |
| Receiver | Rohde & Schwarz | ESVS10 | 1216 |
| Spectrum analyzer | Rohde & Schwarz | FSP40 (V 4.00SP1-V3.0-10-2) | 5175 |

Equipment under test arrangement:

The system is tested in an open area test site (OATS).

The test unit is placed on a rotating table, 0.8 m from a ground plane. Zero degree azimuth corresponds to the front of the equipment under test.

<u>Frequency range</u>: from 30 MHz to harmonic 5 (highest frequency used = 902.458 MHz).

Bandwidth: 120 kHz (F<1 GHz)

1 MHz (F>1 GHz)

Detection mode: Quasi-peak (F < 1 GHz)

Average (F > 1 GHz)

Distance of antenna: 3 meters



Antenna height: 1 to 4 meters

Antenna polarization: vertical and horizontal, only the highest level is recorded.

Operating mode during the test:

The equipments under test are blocked in standby / reception mode.

Results:

Ambient temperature (°C): 20 Relative humidity (%): 60

- For Mini SPY Green

Power source: 3.6 Vdc

No frequencies are observed between 30 MHz to 4.6 GHz for both polarizations

<u>Test conclusion</u>: Complies with the requirements of the standard.



7. <u>20 dB BANDWIDTH AND BAND-EDGE COMPLIANCE</u>

Standard: FCC PART 15: 2013

Section: 15.215 (c)

Instrumentation test list:

| CATEGORY | BRAND | TYPE | N ^r EMITECH |
|-------------------|-----------------|-----------------------------|------------------------|
| Antenna | Schwarzbeck | UHALP 9108 | 3106 |
| Cable | - | N-2m | 2805 |
| Power supply | Sodilec | SDR 60/10 | 0213 |
| Spectrum analyzer | Rohde & Schwarz | FSP40 (V 4.00SP1-V3.0-10-2) | 5175 |

Equipment under test arrangement:

Test realized in near field. All field strength measurements are correlated with the intentional radiated emissions.

Operating mode during the test:

The equipments under test are blocked in continuous transmission mode.

Results:

- For Mini SPY Green

| Fundament al frequency (MHz) | Field Strength Level of fundamental (dBµV/m) | Detector (Peak or Average) | Frequency of maximum Band-edges Emission (MHz) | Delta Marker (dB) * | Calculated Max Out of Band Emission Level (dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|---------------------------------------|--|----------------------------------|--|---------------------------|---|--------------------|----------------|
| 902.458 | 84.1 | Peak | 902.000 | - 58.1 | 26.0 | 46.0 | 20.0 |
| 902.458 | 84.1 | Peak | 928.000 | - 64.1 | 20.0 | 46.0 | 26.0 |

^{*} According to step 2 of Marker-Delta Method DA 00-705.

20 dB bandwidth curves are given in annex 2; band-edge curves are given in annex 3.



8. <u>UNINTENTIONAL RADIATED EMISSIONS AND TRANSMITTER UNWANTED EMISSION IN THE BAND</u> 9 KHz – 9.5 GHz

Standard: FCC PART 15: 2013

Section: 15.205; 15.209 and 15.249

Equipment under test arrangement:

The equipment under test (EUT) is placed on a non-conductive test table at 0.8 m above the horizontal metal ground plane.

For maximum meter reading at each frequency, the antenna height is adjusted between 1 m and 4 m above the ground plane. A 360 degrees rotation of the EUT is performed in vertical and horizontal polarization. The frequency azimuth and antenna height are presented in the table on the next pages.

The equipments under test are blocked in continuous transmission.

Frequency range: 9 kHz – 30 MHz

30 MHz - 1 GHz 1 GHz – 9.5 GHz

Detection mode: Quasi-peak for 9 kHz – 30 MHz

Quasi-peak for 30 MHz - 1 GHz Average for 1 GHz – 9.5 GHz

Resolution bandwidth: 200 Hz for 9 kHz – 150 kHz

9 kHz for 150 kHz – 30 MHz 120 kHz for 30 MHz - 1 GHz 1 MHz for 1 GHz – 9.5 GHz

Measurement distance: 30 meters from 9 kHz to 30 MHz

3 meters from 30 MHz to 9.5 GHz

- Limit for emission radiated outside the frequency band, except the harmonics, shall be attenuated by at least 50 dB below the level of fundamental or the general radiated emission limits in § 15.249 (see table).



From 9 kHz to 30 MHz

| Frequencies range | Limit µV/m |
|-------------------|---------------------|
| 9 – 490 kHz | 2400/F (F in kHz) * |
| 490 – 1705 kHz | 24000/F (F in kHz) |
| 1.705 – 30 MHz | 30 |

 $^{^{\}star}$ Limits in $\mu\text{V/m}$ can be extrapolated to 30 m using 20 dB / decade.

From 30 MHz to 9.5 GHz

| Frequencies range | Lir | nit |
|-------------------|----------|------|
| (MHz) | (dBµV/m) | μV/m |
| 30 to 88 | 40.0 | 100 |
| 88 to 216 | 43.5 | 150 |
| 216 to 960 | 46.0 | 200 |
| Above 960 | 54.0 | 500 |

⁻ Limit for field strength of harmonic: 54 dB μ V/m (500 μ V/m)



Instrumentation test list:

| CATEGORY | BRAND | TYPE | Nr EMITECH |
|---------------------|-----------------------|----------------|------------|
| Antenna | Schwarzbeck | UHALP 9108 | 3106 |
| Antenna | Emco | 3115 | 3374 |
| Antenna | Schwarzbeck | VHA 9103 | 0317 |
| Antenna | EMCO | 6502 | 9579 |
| Antenna mast | Maturo | AM 4.0-O | 7625 |
| Antenna mast | Maturo | MCU | 7626 |
| Cable | Câbles & Connectiques | N-13m | 2452 |
| Cable | - | N-2m | 2805 |
| Cable | C&C | N-8m | 10228 |
| Cable | C&C | N-15m | 10229 |
| Cable | Câbles & Connectiques | N-SMA | 2864 |
| Cable | Micro-Coax | N-13m | 8063 |
| Cable | - | N-30m | 4359 |
| Filter | Trilithic | 6HC1300-2.5-KK | 1097 |
| Filter | Trilithic | 5EHLX500-3-KK | 1529 |
| Filtre | Micro-tronics | HPM 14758 | 4691 |
| Open area test site | Emitech | Aunainville | 0187 |
| Spectrum analyser | Rohde & Schwarz | FSP40 | 5175 |

Results:

- For Mini SPY Green:

| Frequency (MHz) | Polarization | Azimut (degrees) | Antenna height (cm) | Measure (dBµV/m) | Standard limit (dBµV/m) | Δ (dB) |
|--------------------|--------------|---------------------|------------------------|---------------------|----------------------------|--------|
| 1804.73 | Vertical | 0 | 150 | 43.7 | 54 | 10.3 |
| 1804.73 | Horizontal | 170 | 125 | 51.2 | 54 | 2.8 |
| 2707.14 | Vertical | 185 | 120 | 44.7 | 54 | 9.3 |
| 2707.14 | Horizontal | 180 | 150 | 47.3 | 54 | 6.7 |
| 3609.50 | Vertical | 24 | 190 | 42.6 | 54 | 11.4 |
| 3609.50 | Horizontal | 75 | 115 | 42.0 | 54 | 12.0 |

« $\square\square\square$ End of report, 6 annexes to be forwarded $\square\square\square$ »



ANNEX 1:

Antenna factors, insertion losses and amplifier values



BILL OF MATERIAL

The test antenna used for the radiated emission between 9 kHz and 30 MHz is the active loop antenna n°9579. Antenna factors are given in table 1.

The test antenna used for the radiated emission between 30 MHz and 200 MHz is the biconical antenna n°317. Antenna factors are given in table 2.

The test antenna used for the radiated emission between 200 MHz and 1 GHz is the log-periodic antenna n°3106. Antenna factors are given in table 3.

The measuring receiver n°1216 used in the frequency range 30 MHz to 1 GHz has an integrated preamplifier.

The spectrum analyzer n°5175 is used in the frequency range 1 GHz to 9.5 GHz.

The test cable used between 9 kHz and 30 MHz to connect the antennas to the receiver for measurements at a distance of 30 meters has losses given in table 5.

The test cable used between 30 MHz and 1 GHz to connect the antennas to the receiver for measurements at a distance of 3 meters has losses given in table 6.

The test antenna used for the radiated emission between 1 GHz and 9.5 GHz is the horn antenna n°3374. Factors are given in table 7.

The amplifier n°3229 used to connect the spectrum analyzer to the test cable has gain values given in the table 8.

The test cable used between 1 GHz and 9.5 GHz to connect the horn antenna to the amplifier for measurements at a distance of 3 meters has losses given in table 9.



| Frequency | Antenna factor | Frequency | Antenna factor |
|-----------|----------------|-----------|----------------|
| (MHz) | (dB/m) | (MHz) | (dB/m) |
| 0.009 | 19.6 | 0.8 | 10.0 |
| 0.01 | 18.8 | 1 | 9.9 |
| 0.015 | 15.8 | 1.5 | 9.9 |
| 0.02 | 13.9 | 2 | 9.9 |
| 0.03 | 12.1 | 3 | 9.9 |
| 0.05 | 10.8 | 5 | 9.8 |
| 0.08 | 10.3 | 8 | 9.7 |
| 0.1 | 10.2 | 10 | 9.5 |
| 0.15 | 10.1 | 15 | 9.1 |
| 0.2 | 10.1 | 20 | 8.3 |
| 0.3 | 10.0 | 25 | 7.3 |
| 0.5 | 10.0 | 30 | 5.6 |

TABLE 1: ACTIVE LOOP ANTENNA

| Frequency (MHz) | Antenna factor (dB/m) | Frequency (MHz) | Antenna factor (dB/m) |
|--------------------|-----------------------|--------------------|-----------------------|
| 30 | 18.9 | 90 | 8.5 |
| 35 | 17.1 | 100 | 10.1 |
| 40 | 15.1 | 120 | 13.0 |
| 45 | 13.3 | 140 | 14.5 |
| 50 | 11.5 | 160 | 15.5 |
| 60 | 8.0 | 180 | 15.7 |
| 70 | 6.4 | 200 | 16.1 |
| 80 | 6.9 | - | - |

TABLE 2: BICONICAL ANTENNA

| Frequency (MHz) | Antenna factor (dB/m) | Frequency (MHz) | Antenna factor (dB/m) |
|--------------------|-----------------------|--------------------|-----------------------|
| 200 | 22.8 | 700 | 20.7 |
| 300 | 14.2 | 800 | 21.4 |
| 400 | 16.4 | 900 | 21.5 |
| 500 | 17.9 | 1000 | 22.2 |
| 600 | 19.3 | - | - |

TABLE 3: LOG-PERIODIC ANTENNA



| Frequency | loss | Frequency | loss |
|-----------|------|-----------|------|
| (MHz) | (dB) | (MHz) | (dB) |
| 0.009 | 0.0 | 6.000 | 0.5 |
| 0.020 | 0.0 | 7.000 | 0.5 |
| 0.050 | 0.0 | 8.000 | 0.5 |
| 0.100 | 0.0 | 9.000 | 0.6 |
| 0.500 | 0.1 | 10.00 | 0.6 |
| 1.000 | 0.2 | 15.00 | 0.7 |
| 2.000 | 0.2 | 20.00 | 0.8 |
| 3.000 | 0.3 | 25.00 | 1.0 |
| 4.000 | 0.4 | 30.00 | 1.1 |
| 5.000 | 0.4 | - | - |

TABLE 4 : TEST CABLE FOR 30M MEASUREMENT INTO 9 kHz AND 30 MHz

| Frequency | loss | Frequency | loss |
|-----------|------|-----------|------|
| (MHz) | (dB) | (MHz) | (dB) |
| 30 | 0.5 | 250 | 1.8 |
| 40 | 0.7 | 300 | 1.9 |
| 50 | 0.7 | 400 | 2.3 |
| 60 | 0.9 | 500 | 2.5 |
| 70 | 0.9 | 600 | 2.9 |
| 80 | 1.0 | 700 | 3.1 |
| 90 | 1.0 | 800 | 3.4 |
| 100 | 1.1 | 900 | 3.7 |
| 150 | 1.4 | 1000 | 3.8 |
| 200 | 1.6 | - | - |

TABLE 5 : TEST CABLE FOR 3M MEASUREMENT INTO 30 MHz AND 1 GHz

| Frequency | Antenna factor | Frequency | Antenna factor |
|-----------|----------------|-----------|----------------|
| (GHz) | (dB/m) | (ĠHz) | (dB/m) |
| 1.0 | 23.7 | 5.5 | 34.1 |
| 1.5 | 24.6 | 6.0 | 34.1 |
| 2.0 | 27.5 | 6.5 | 34.4 |
| 2.5 | 28.8 | 7.0 | 35.4 |
| 3.0 | 29.8 | 7.5 | 36.6 |
| 3.5 | 31.2 | 8.0 | 36.6 |
| 4.0 | 32.5 | 8.5 | 37.0 |
| 4.5 | 32.5 | 9.0 | 37.1 |
| 5.0 | 33.5 | 9.5 | 37.2 |

TABLE 6: HORN ANTENNA



| Frequency (GHz) | Gain value (dB) | Frequency (GHz) | Gain value (dB) |
|--------------------|--------------------|--------------------|--------------------|
| 1.0 | 34.9 | 5.0 | 36.0 |
| 1.5 | 34.8 | 6.0 | 36.2 |
| 2.0 | 35.1 | 7.0 | 35.5 |
| 2.5 | 35.1 | 8.0 | 34.8 |
| 3.0 | 35.3 | 9.0 | 33.2 |
| 4.0 | 35.7 | 9.5 | 31.9 |

TABLE 7 : AMPLIFIER GAIN VALUE

| Frequency | loss | Frequency (GHz) | loss |
|-----------|------|--------------------|------|
| (ĠHz) | (dB) | (GHz) | (dB) |
| 1.0 | 3.4 | 4.5 | 7.5 |
| 1.5 | 4.2 | 5 | 8.2 |
| 2.0 | 4.8 | 6 | 9.1 |
| 2.5 | 5.3 | 8 | 9.9 |
| 3.0 | 6.1 | 10 | 11.6 |
| 3.5 | 6.6 | - | - |

TABLE 8: TEST CABLE FOR 3M MEASUREMENT INTO 1 TO 9.5 GHz

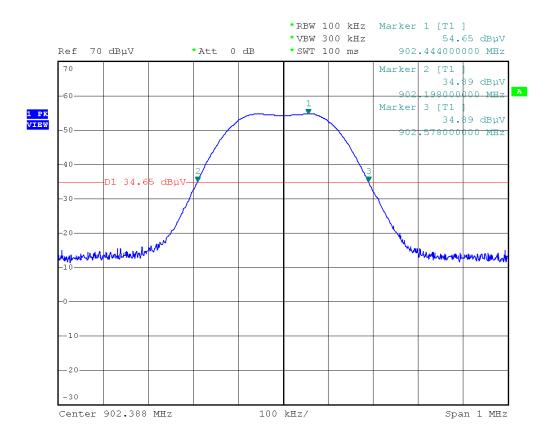


ANNEX 2:

20 dB bandwidth



Mini SPY Green



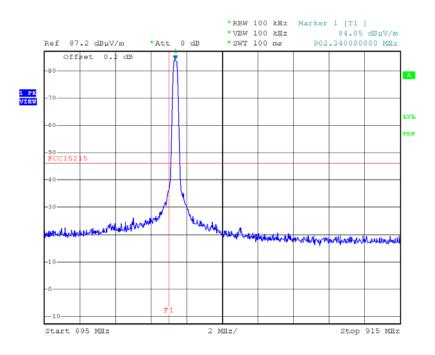
Date: 4.JUN.2013 12:22:16



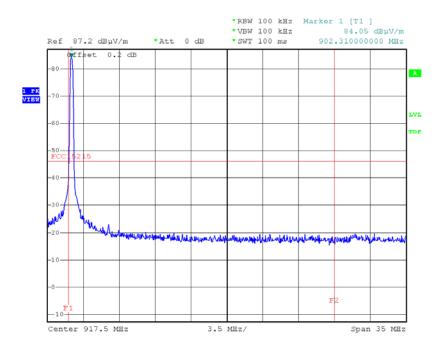
ANNEX 3:

Band Edge

Mini SPY Green



Date: 4.JUN.2013 13:04:47



Date: 4.JUN.2013 13:06:34



ANNEX 4:

Calibration dates



| N° EMITECH | LAST CALIBRATION | CALIBRATION DUE DATE |
|------------|------------------|----------------------|
| 1216 | 12/12/2011 | 12/02/2014 |
| 0187 | 20/08/2011 | 20/08/2013 |
| 3106 | 27/04/2012 | 27/04/2014 |
| 2452 | 24/10/2012 | 24/10/2014 |
| 2805 | 27/06/2011 | 27/06/2013 |
| 10028 | 11/02/2013 | 11/02/2015 |
| 10029 | 11/02/2013 | 11/02/2015 |
| 3374 | 08/02/2012 | 08/04/2016 |
| 2864 | 14/12/2011 | 14/02/2014 |
| 8063 | 06/08/2012 | 06/10/2014 |
| 1097 | 12/04/2011 | 12/06/2013 |
| 1529 | 12/04/2011 | 12/06/2013 |
| 4691 | 06/05/2011 | 06/07/2013 |
| 5175 | 27/03/2012 | 27/05/2014 |
| 9579 | 22/10/2012 | 22/10/2014 |
| 4359 | 07/03/2012 | 07/03/2014 |
| 0317 | 19/08/2010 | 19/08/2014 |
| 3229 | 25/102012 | 25/10/2013 |