

**SAMSUNG**

# DUAL BAND GSM TELEPHONE SGH-A400

# **SERVICE** *Manual*

## DUAL BAND GSM TELEPHONE



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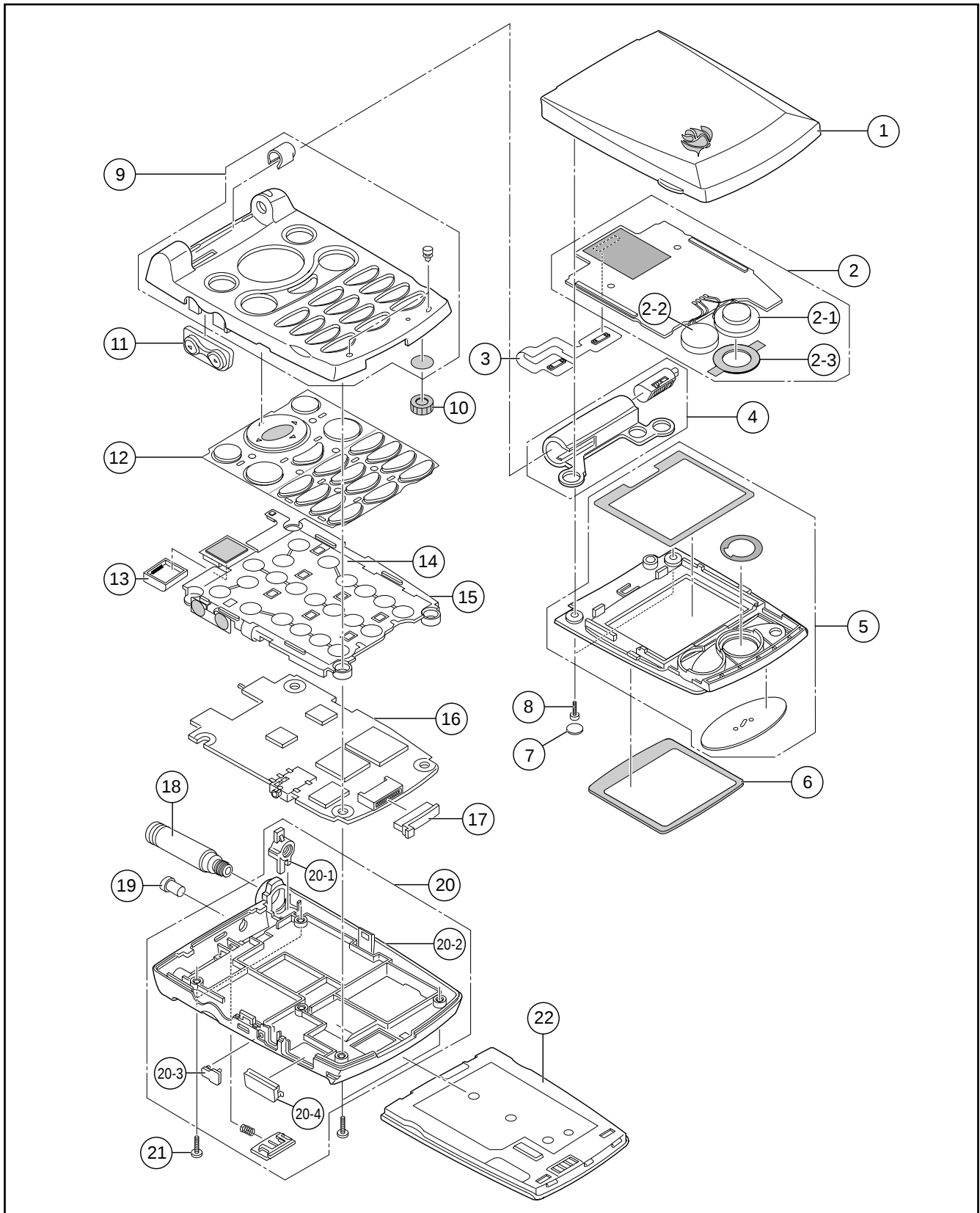
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# 1. SGH-A400 Exploded View and its Parts List

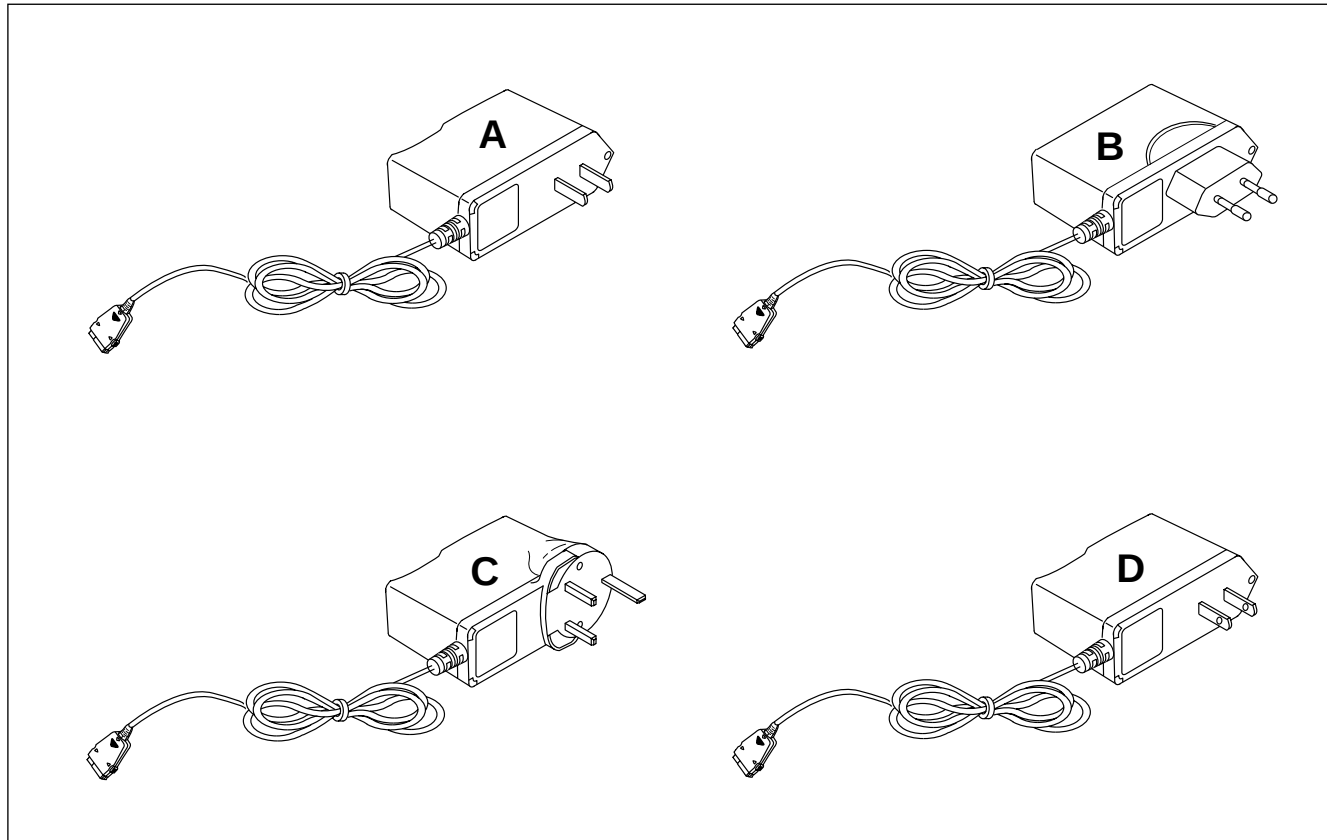
## 1-1 SGH-A400 GSM Telephone Exploded View



## 1-2 SGH-A400 GSM Telephone Parts List

| NO |      | DESCRIPTION        | SEC.CODE    | REMARK |         |
|----|------|--------------------|-------------|--------|---------|
| 1  |      | MEC-FOLDER UPPER   | GH75-01200A | SA     |         |
| 2  |      | LCD ASS'Y          | GH07-00084A | SA     |         |
|    | 2-1  | SPEAKER ASS'Y      | GH59-00239A | SA     |         |
|    | 2-2  | VIBRATOR ASS'Y     | GH31-00030A | SA     |         |
|    | 2-3  | SHIELD NET         | GH74-01653A | SA     |         |
| 3  |      | FPCB               | GH59-00242A | SA     |         |
| 4  |      | HINGE HOLDER ASS'Y | GH75-01109B | SA     |         |
| 5  |      | MEC-FOLDER LOWER   | GH75-01201A | SA     |         |
| 6  |      | WINDOW-LCD         | GH72-01726B | SA     |         |
| 7  |      | HOLE SHEET         | GH74-01013K | SA     |         |
| 8  |      | SCREW-MACHINE      | 6001-001155 | SA     |         |
| 9  |      | MEC-FRONT COVER    | GH75-01198A | SA     |         |
| 10 |      | MIC                | GH59-00245A | SA     |         |
| 11 |      | VOLUME ASS'Y       | GH75-00948A | SA     |         |
| 12 |      | KEY PAD-SILVER     | GH72-02705A | SA     |         |
| 13 |      | HOLDER-BUZZER      | GH73-00777A | SA     |         |
| 14 |      | KEY-PCB ASS'Y      | GH59-00217A | SA     |         |
| 15 |      | SHIELD COVER       | GH71-00512A | SA     |         |
| 16 |      | PBA                | GH92-00985A | SA     |         |
| 17 |      | COVER CONNECTOR    | GH73-00779A | SA     |         |
| 18 |      | ANTENNA            | GH42-00119A | SA     |         |
| 19 |      | RF JACK HOLDER     | GH73-00502F | SA     |         |
| 20 |      | MEC-REAR COVER     | GH75-01199A | SA     |         |
|    | 20-1 | ANTENNA LOCKER     | GH71-00511A | SNA    |         |
|    | 20-2 | REAR COVER         | GH72-02702A | SNA    |         |
|    | 20-3 | COVER-EARPHONE     | GH73-00776A | SNA    |         |
|    | 20-4 | WINDOW-IrDA        | GH72-02825A | SNA    |         |
| 21 |      | SCREW-MACHINE      | 6001-000883 | SA     |         |
| 22 |      | BATTERY            | GH43-00347A | SA     | 650 mAh |

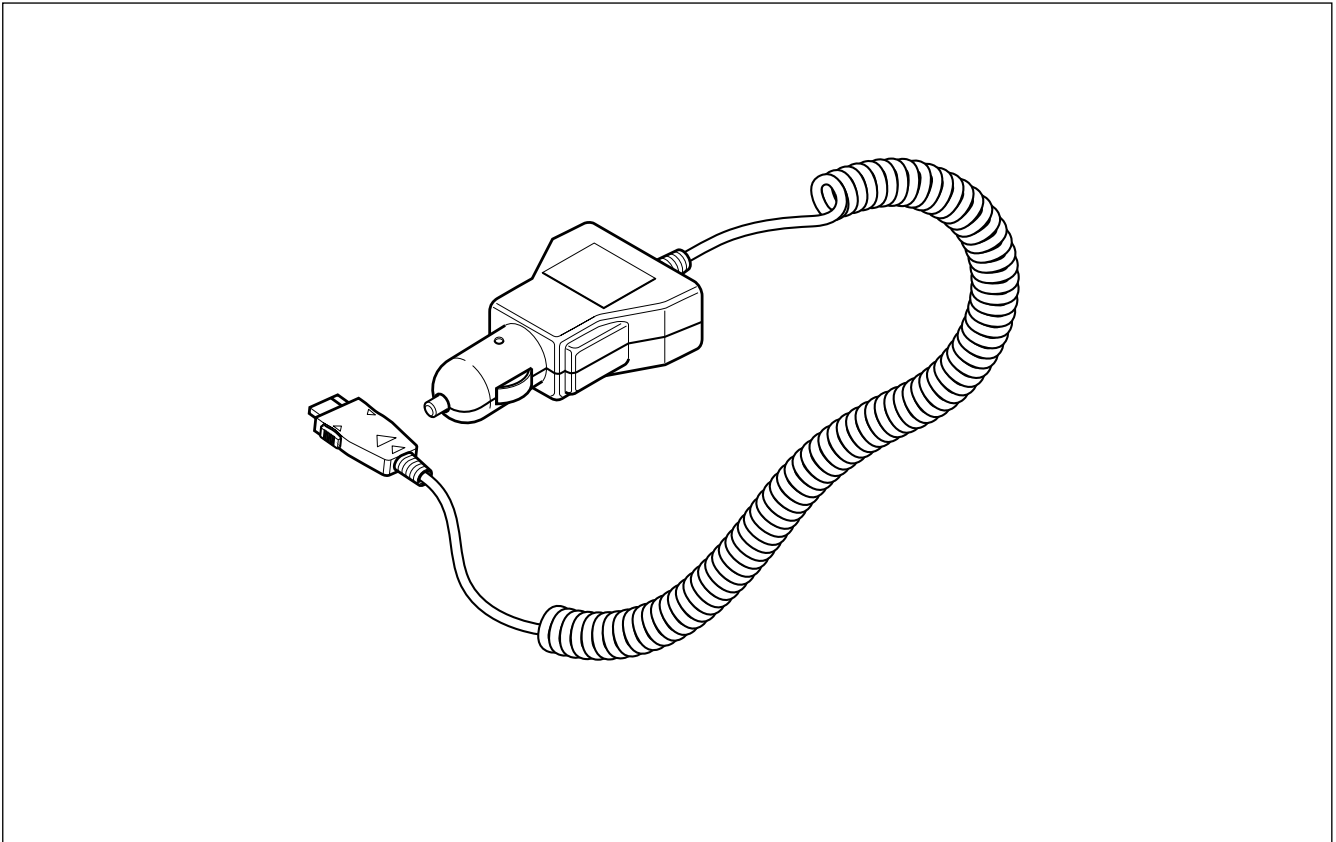
## 1-3 SGH-A400 Travel Adapter



## 1-4 SGH-A400 Travel Adapter Parts List

| TYPE | SEC CODE    | REMARK         |
|------|-------------|----------------|
| A    | GH44-00171A | CHINA          |
| B    | GH44-00184A | EUROPE         |
| C    | GH44-00171C | UNITED KINGDOM |
| D    | Gh44-00171E | TAIWAN         |

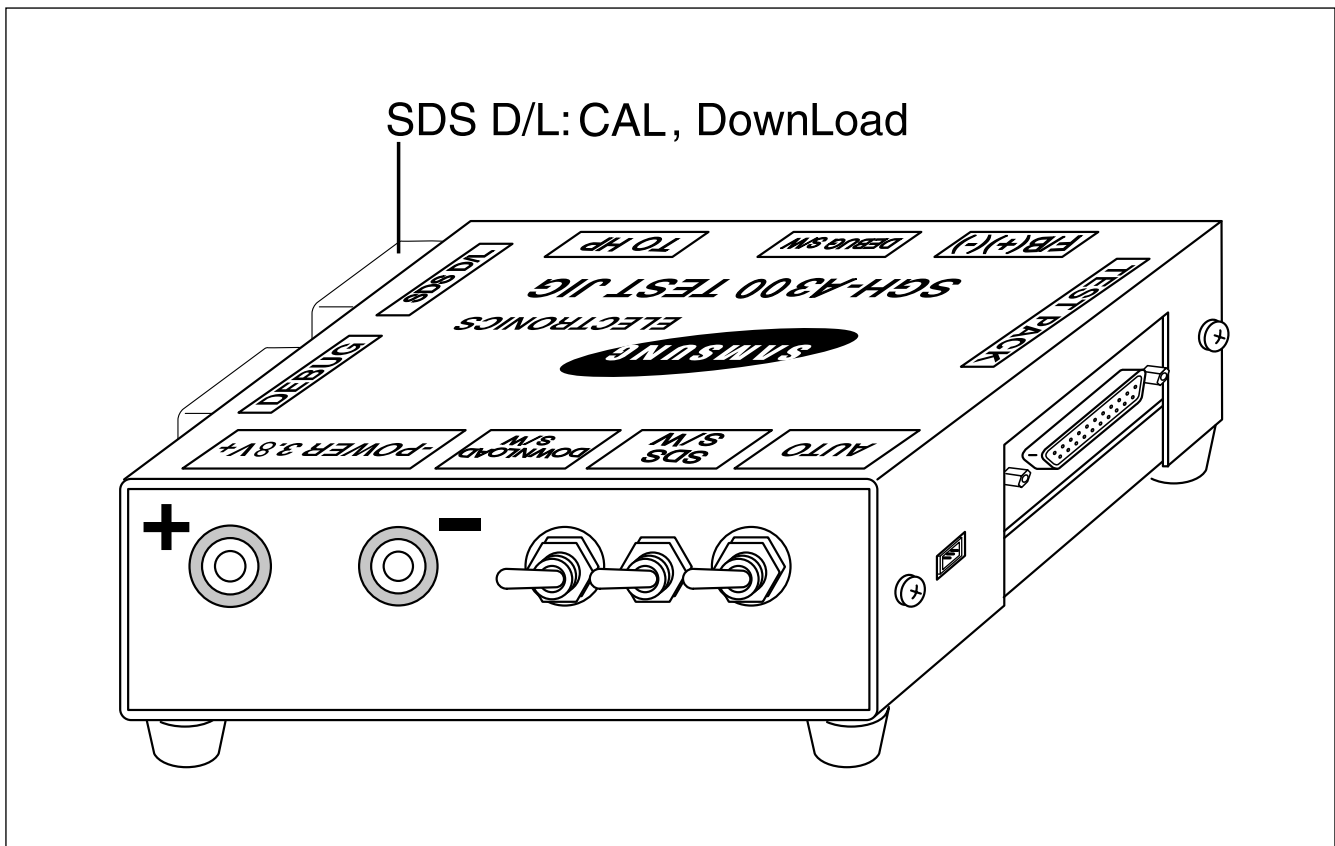
## 1-5 SGH-A400 Cigarette Lighter Adaptor



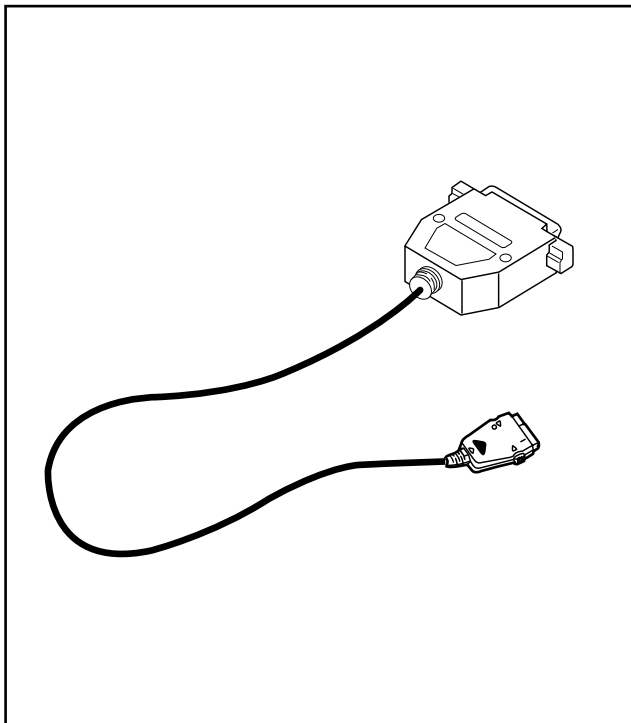
## 1-6 SGH-A400 Cigarette Lighter Adapter Parts List

| DESCRIPTION                    | SEC CODE    | REMARK |
|--------------------------------|-------------|--------|
| Cigarette Lighter Adapter Code | GH44-00195A | BLACK  |

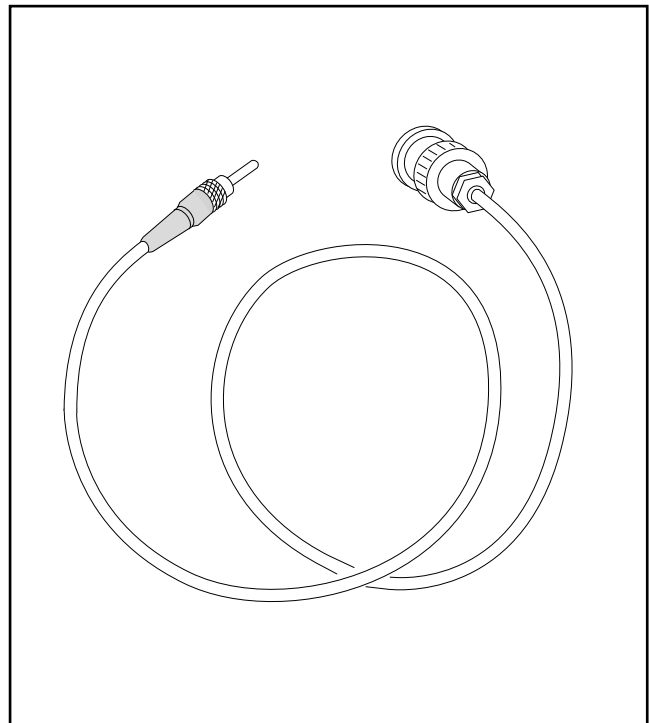
## 1-7 SGH-A400 Test Jig (GH80-00161A)



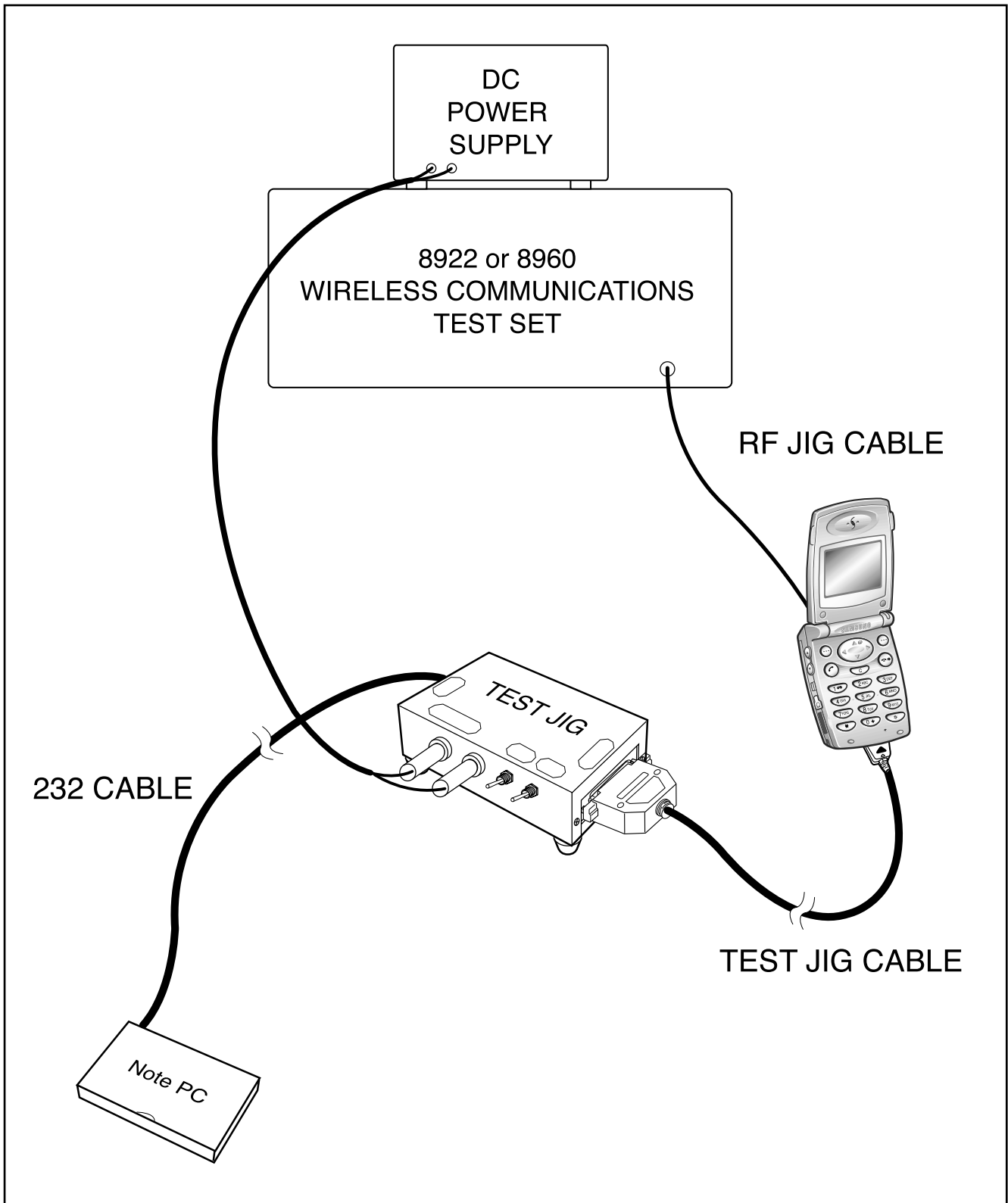
### 1-7-1 SGH-A400 Test Jig Cable (GH39-00096A)



### 1-7-2 SGH-A400 RF Jig Cable (GH39-00093A)



### 1-7-3 SGH-A400 Test Jig



## 2. SGH-A400 Electrical Parts List

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                       | Remark |
|-------|-------------|-----------|----------------------------------------------------|--------|
| 0     | GH92-00985A |           |                                                    |        |
| 1     | 4302-001119 | BAT200    | BATTERY-LI(2ND) 3 V, 0.1MAH, -, -, 3.1 V, -        |        |
| 1     | 2203-000311 | C100      | C-CERAMIC, CHIP 0.12 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-005065 | C101      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-000330 | C102      | C-CERAMIC, CHIP 0.012 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005571 | C103      | C-CERAMIC, CHIP 10000 nF, +80-20 %, 6.3 V, Y5 V,   |        |
| 1     | 2203-000359 | C104      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000233 | C106      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,        |        |
| 1     | 2203-000812 | C107      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2404-001151 | C108      | C-TA, CHIP 33 uF, 20 %, 6.3 V, LZ, TP, 3216        |        |
| 1     | 2203-005571 | C109      | C-CERAMIC, CHIP 10000 nF, +80-20 %, 6.3 V, Y5 V,   |        |
| 1     | 2203-000278 | C110      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,    |        |
| 1     | 2203-000628 | C111      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-001432 | C112      | C-CERAMIC, CHIP 47 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-005158 | C113      | C-CERAMIC, CHIP 0.0022 nF, 0.25pF, 50 V, NP0, TP,  |        |
| 1     | 2203-005061 | C114      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-001432 | C115      | C-CERAMIC, CHIP 47 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-000628 | C116      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C117      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005571 | C118      | C-CERAMIC, CHIP 10000 nF, +80-20 %, 6.3 V, Y5 V,   |        |
| 1     | 2203-005061 | C119      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-005061 | C120      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-001432 | C121      | C-CERAMIC, CHIP 47 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2404-001105 | C200      | C-TA, CHIP 10 uF, 20 %, 6.3 V, GP, TP, 2012        |        |
| 1     | 2203-005061 | C201      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-005509 | C202      | C-CERAMIC, CHIP 330 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000359 | C203      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000359 | C204      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-005061 | C205      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-000254 | C206      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -      |        |
| 1     | 2203-000679 | C207      | C-CERAMIC, CHIP 0.027 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2404-001017 | C208      | C-TA, CHIP 1 uF, 20 %, 10 V, GP, TP, 2012, 2, 0    |        |
| 1     | 2203-000679 | C209      | C-CERAMIC, CHIP 0.027 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005065 | C210      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-000359 | C211      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,       |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                        | Remark |
|-------|-------------|-----------|-----------------------------------------------------|--------|
| 1     | 2203-005509 | C212      | C-CERAMIC, CHIP 330 nF, +80-20 %, 10 V, Y5 V, TP,   |        |
| 1     | 2203-005061 | C213      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-005061 | C214      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-005061 | C280      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-000233 | C300      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,         |        |
| 1     | 2203-000233 | C301      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,         |        |
| 1     | 2203-005053 | C302      | C-CERAMIC, CHIP 0.0039 nF, 0.25 pF, 50 V, NP0, TP,  |        |
| 1     | 2203-005053 | C303      | C-CERAMIC, CHIP 0.0039 nF, 0.25 pF, 50 V, NP0, TP,  |        |
| 1     | 2203-005446 | C304      | C-CERAMIC, CHIP 0.0027 nF, 0.1pF, 50 V, NP0, TP,    |        |
| 1     | 2404-001234 | C305      | C-TA, CHIP 68 uF, 20 %, 6.3 V, -, TP, 3.3x2.7x1.7mm |        |
| 1     | 2203-005061 | C306      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-000438 | C308      | C-CERAMIC, CHIP 1 nF, 10 %, 50 V, X7R, TP, -        |        |
| 1     | 2203-005053 | C309      | C-CERAMIC, CHIP 0.0039 nF, 0.25 pF, 50 V, NP0, TP,  |        |
| 1     | 2203-000628 | C310      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000628 | C311      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2301-001230 | C312      | C-FILM, CHIP 10 nF, 5 %, 16 V, TP, 2012, -          |        |
| 1     | 2404-001105 | C313      | C-TA, CHIP 10 uF, 20 %, 6.3 V, GP, TP, 2012         |        |
| 1     | 2203-000940 | C314      | C-CERAMIC, CHIP 470 pF, 10 %, 50 V, X7R, TP, -      |        |
| 1     | 2203-000812 | C315      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000254 | C316      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-000254 | C317      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-000836 | C318      | C-CERAMIC, CHIP 390 pF, 10 %, 50 V, X7R, TP, -      |        |
| 1     | 2203-005664 | C319      | C-CERAMIC, CHIP 4700 nF, 10 %, 6.3 V, X5R, TP, 2012 |        |
| 1     | 2203-000812 | C320      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000438 | C321      | C-CERAMIC, CHIP 1 nF, 10 %, 50 V, X7R, TP, -        |        |
| 1     | 2203-000278 | C322      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,     |        |
| 1     | 2203-005446 | C323      | C-CERAMIC, CHIP 0.0027 nF, 0.1pF, 50 V, NP0, TP,    |        |
| 1     | 2203-000278 | C324      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,     |        |
| 1     | 2203-000254 | C325      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-000425 | C326      | C-CERAMIC, CHIP 0.018 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000425 | C327      | C-CERAMIC, CHIP 0.018 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-005065 | C328      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000940 | C329      | C-CERAMIC, CHIP 470 pF, 10 %, 50 V, X7R, TP, -      |        |
| 1     | 2203-000330 | C330      | C-CERAMIC, CHIP 0.012 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000836 | C331      | C-CERAMIC, CHIP 390 pF, 10 %, 50 V, X7R, TP, -      |        |
| 1     | 2203-005481 | C332      | C-CERAMIC, CHIP 47 nF, 10 %, 10 V, X7R, TP, -       |        |
| 1     | 2203-005664 | C333      | C-CERAMIC, CHIP 4700 nF, 10 %, 6.3 V, X5R, TP, 2012 |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                        | Remark |
|-------|-------------|-----------|-----------------------------------------------------|--------|
| 1     | 2203-000386 | C334      | C-CERAMIC, CHIP 0.015 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000812 | C335      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2301-001230 | C336      | C-FILM, CHIP 10 nF, 5 %, 16 V, TP, 2012, -          |        |
| 1     | 2203-005158 | C337      | C-CERAMIC, CHIP 0.0022 nF, 0.25pF, 50 V, NP0, TP,   |        |
| 1     | 2203-005158 | C338      | C-CERAMIC, CHIP 0.0022 nF, 0.25pF, 50 V, NP0, TP,   |        |
| 1     | 2203-000812 | C339      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000812 | C340      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-002443 | C341      | C-CERAMIC, CHIP 0.33 nF, 10 %, 50 V, X7R, TP,       |        |
| 1     | 2203-002443 | C342      | C-CERAMIC, CHIP 0.33 nF, 10 %, 50 V, X7R, TP,       |        |
| 1     | 2203-002443 | C343      | C-CERAMIC, CHIP 0.33 nF, 10 %, 50 V, X7R, TP,       |        |
| 1     | 2203-002443 | C344      | C-CERAMIC, CHIP 0.33 nF, 10 %, 50 V, X7R, TP,       |        |
| 1     | 2203-000254 | C345      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-000254 | C346      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-005061 | C400      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-000233 | C401      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,         |        |
| 1     | 2203-005061 | C402      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-005065 | C403      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-005065 | C404      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-005664 | C405      | C-CERAMIC, CHIP 4700 nF, 10 %, 6.3 V, X5R, TP, 2012 |        |
| 1     | 2203-005664 | C406      | C-CERAMIC, CHIP 4700 nF, 10 %, 6.3 V, X5R, TP, 2012 |        |
| 1     | 2203-005065 | C408      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000995 | C409      | C-CERAMIC, CHIP 0.047 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000359 | C410      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,        |        |
| 1     | 2203-000359 | C411      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,        |        |
| 1     | 2203-000254 | C412      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -       |        |
| 1     | 2203-005065 | C413      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000233 | C414      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,         |        |
| 1     | 2404-001239 | C415      | C-TA, CHIP 100 uF, 20 %, 6.3 V, WT, TP, 3.3x2.7x    |        |
| 1     | 2203-005562 | C416      | C-CERAMIC, CHIP 10000 nF, +80-20 %, 10 V, Y5 V,     |        |
| 1     | 2203-005061 | C417      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,   |        |
| 1     | 2203-000940 | C418      | C-CERAMIC, CHIP 470 pF, 10 %, 50 V, X7R, TP, -      |        |
| 1     | 2203-000812 | C419      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-005796 | C420      | C-CERAMIC, CHIP 2200 nF, 10 %, 10 V, X7R, TP, 2012  |        |
| 1     | 2203-000278 | C421      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,     |        |
| 1     | 2203-000233 | C500      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,         |        |
| 1     | 2203-000438 | C501      | C-CERAMIC, CHIP 1 nF, 10 %, 50 V, X7R, TP, -        |        |
| 1     | 2203-000812 | C503      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,       |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                           | Remark |
|-------|-------------|-----------|--------------------------------------------------------|--------|
| 1     | 2203-000233 | C504      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000233 | C505      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000278 | C506      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,        |        |
| 1     | 2203-005056 | C507      | C-CERAMIC, CHIP 0.0068 nF, 0.25 pF, 50 V, NP0, TP,     |        |
| 1     | 2203-000233 | C508      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000233 | C509      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-005234 | C511      | C-CERAMIC, CHIP 0.0012 nF, 0.25pF, 50 V, NP0, TP,      |        |
| 1     | 2203-000628 | C512      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000628 | C513      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000278 | C515      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,        |        |
| 1     | 2203-000628 | C516      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000628 | C517      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000812 | C518      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000812 | C519      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000278 | C520      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,        |        |
| 1     | 2404-001239 | C521      | C-TA, CHIP 100 uF, 20 %, 6.3 V, WT, TP, 3.3x2.7x       |        |
| 1     | 2203-005148 | C522      | C-CERAMIC, CHIP 100 nF, 10 %, 16 V, X7R, TP, 1608,     |        |
| 1     | 2203-000628 | C525      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000233 | C526      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000812 | C527      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000233 | C530      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000233 | C532      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2203-000812 | C533      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-005061 | C534      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,      |        |
| 1     | 2203-000278 | C535      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,        |        |
| 1     | 2203-000628 | C537      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000438 | C538      | C-CERAMIC, CHIP 1 nF, 10 %, 50 V, X7R, TP, -           |        |
| 1     | 2203-000254 | C539      | C-CERAMIC, CHIP 10 nF, 10 %, 16 V, X7R, TP, -          |        |
| 1     | 2203-000696 | C540      | C-CERAMIC, CHIP 0.002 nF, 0.25 pF, 50 V, NP0, TP,      |        |
| 1     | 2203-000466 | C541      | C-CERAMIC, CHIP 0.001 nF, 0.25 pF, 50 V, NP0, TP,      |        |
| 1     | 2203-000679 | C542      | C-CERAMIC, CHIP 0.027 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000233 | C543      | C-CERAMIC, CHIP 0.1 nF, 5 %, 50 V, NP0, TP,            |        |
| 1     | 2301-001475 | C544      | C-FILM, CHIP 3.9 nF, 5 %, 16 V, TP, 2.0 x 1.25 x 0.9mm |        |
| 1     | 2203-000995 | C545      | C-CERAMIC, CHIP 0.047 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000628 | C546      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,          |        |
| 1     | 2203-000278 | C547      | C-CERAMIC, CHIP 0.01 nF, 0.5 pF, 50 V, NP0, TP,        |        |
| 1     | 2203-001432 | C548      | C-CERAMIC, CHIP 47 nF, +80-20 %, 16 V, Y5 V, TP,       |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                       | Remark |
|-------|-------------|-----------|----------------------------------------------------|--------|
| 1     | 2203-005065 | C549      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2007-007771 | C550      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,                 |        |
| 1     | 2203-005509 | C551      | C-CERAMIC, CHIP 330 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000725 | C552      | C-CERAMIC, CHIP 3.9 nF, 10 %, 50 V, X7R, TP, -     |        |
| 1     | 2203-005509 | C553      | C-CERAMIC, CHIP 330 nF, +80-20 %, 10 V, Y5 V, TP,  |        |
| 1     | 2203-000812 | C600      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000628 | C601      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2404-001151 | C602      | C-TA, CHIP 33 uF, 20 %, 6.3 V, LZ, TP, 3216        |        |
| 1     | 2203-005148 | C603      | C-CERAMIC, CHIP 100 nF, 10 %, 16 V, X7R, TP, 1608, |        |
| 1     | 2203-000812 | C604      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000628 | C605      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005367 | C606      | C-CERAMIC, CHIP 6800 nF, +80-20 %, 25 V, Y5 V, TP, |        |
| 1     | 2203-000812 | C608      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C609      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-002968 | C610      | C-CERAMIC, CHIP 0.051 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C611      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2404-001151 | C613      | C-TA, CHIP 33 uF, 20 %, 6.3 V, LZ, TP, 3216        |        |
| 1     | 2203-000812 | C614      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005065 | C615      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-000812 | C616      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005061 | C617      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-005061 | C618      | C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V, Y5 V, TP,  |        |
| 1     | 2203-000628 | C620      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005065 | C621      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-005065 | C622      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-000628 | C625      | C-CERAMIC, CHIP 0.022 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2404-001239 | C627      | C-TA, CHIP 100 uF, 20 %, 6.3 V, WT, TP, 3.3x2.7x   |        |
| 1     | 2203-005065 | C630      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-001412 | C631      | C-CERAMIC, CHIP 0.03 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-001412 | C632      | C-CERAMIC, CHIP 0.03 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2404-001105 | C634      | C-TA, CHIP 10 uF, 20 %, 6.3 V, GP, TP, 2012        |        |
| 1     | 2404-001105 | C635      | C-TA, CHIP 10 uF, 20 %, 6.3 V, GP, TP, 2012        |        |
| 1     | 2203-000812 | C636      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C637      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C638      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C639      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C640      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                       | Remark |
|-------|-------------|-----------|----------------------------------------------------|--------|
| 1     | 2203-000812 | C641      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C642      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C643      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C644      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C647      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-005065 | C651      | C-CERAMIC, CHIP 1000 nF, +80-20 %, 10 V, Y5 V, TP, |        |
| 1     | 2203-000359 | C652      | C-CERAMIC, CHIP 0.15 nF, 5 %, 50 V, NP0, TP,       |        |
| 1     | 2203-000812 | C657      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000386 | C658      | C-CERAMIC, CHIP 0.015 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000386 | C659      | C-CERAMIC, CHIP 0.015 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C660      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C662      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C663      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C664      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C665      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C666      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000812 | C667      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 2203-000438 | C670      | C-CERAMIC, CHIP 1 nF, 10 %, 50 V, X7R, TP, -       |        |
| 1     | 2203-000812 | C671      | C-CERAMIC, CHIP 0.033 nF, 5 %, 50 V, NP0, TP,      |        |
| 1     | 3709-001190 | CN400     | CONNECTOR-CARD EDGE 6P, 2.54MM, SMD, -             |        |
| 1     | 3705-001178 | CN500     | CONNECTOR-COAXIAL SMC, JACK, 100 Mohm,             |        |
| 1     | 3722-001530 | CN600     | JACK-PHONE 5P, 2.6PI, A uF, BLK, -                 |        |
| 1     | 3710-001585 | CN601     | CONNECTOR-SOCKET 20P, 2R, 0.5mm, SMD-S, A uF       |        |
| 1     | 3711-004623 | CN602     | CONNECTOR-HEADER BOX, 20P, 2R, 0.5mm,              |        |
| 1     | 3710-001653 | CN604     | CONNECTOR-SOCKET 18P, 1R, 0.5mm, SMD-A, A uF       |        |
| 1     | 0407-000115 | D200      | DIODE-ARRAY DAN202U, 80 V, 100 mA, CA2-3, SC-70,   |        |
| 1     | 0401-001033 | D201      | DIODE-SWITCHING MCL4154, 25 V, 200 mA, M-MELF,     |        |
| 1     | 0405-001093 | D300      | DIODE-VARACTOR MA4ST230, 12 V, -, SOT-23, TP       |        |
| 1     | 0401-001033 | D402      | DIODE-SWITCHING MCL4154, 25 V, 200 mA, M-MELF,     |        |
| 1     | 0402-001463 | D500      | DIODE-RECTIFIER HSMS-2825, 15 V, 1 A, SOT-143,     |        |
| 1     | 0407-000115 | D601      | DIODE-ARRAY DAN202U, 80 V, 100 mA, CA2-3, SC-70,   |        |
| 1     | 2903-001211 | F300      | FILTER-CERAMIC BP, 14.6MHz, 300KHz, 6dB, 1dB,      |        |
| 1     | 2904-001165 | F301      | FILTER-SAW 400MHZ, .28MHZ, +-70KHZ, TP, 6.5DB, -   |        |
| 1     | 2904-001096 | F500      | FILTER-SAW 1.8425GHz, 75MHz, +-37.5MHz/2.5dB,      |        |
| 1     | 2904-001281 | F501      | FILTER-SAW 947.5MHz, 25MHz, +-12.5MHz/1.4dB,       |        |
| 1     | 2007-007771 | F502      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,                 |        |
| 1     | 2703-000310 | L100      | INDUCTOR-SMD 1.8 uH, 10 %, 0.8x1.6x0.8mm           |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                     | Remark |
|-------|-------------|-----------|--------------------------------------------------|--------|
| 1     | 2703-001543 | L300      | INDUCTOR-SMD 33 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-001513 | L301      | INDUCTOR-SMD 100 nH, 5 %, 1.8x1.12x1.02mm        |        |
| 1     | 2703-002214 | L302      | INDUCTOR-SMD 8.2 nH, 5 %, 1.6X0.8X0.8MM          |        |
| 1     | 2703-001513 | L303      | INDUCTOR-SMD 100 nH, 5 %, 1.8x1.12x1.02mm        |        |
| 1     | 2703-001545 | L304      | INDUCTOR-SMD 47 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-001543 | L305      | INDUCTOR-SMD 33 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-001547 | L306      | INDUCTOR-SMD 10 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-001547 | L307      | INDUCTOR-SMD 10 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-001547 | L308      | INDUCTOR-SMD 10 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-002218 | L400      | INDUCTOR-SMD 100 uH, 20 %, 3.3X1.5X0.8MM         |        |
| 1     | 2703-001954 | L501      | INDUCTOR-SMD 2.7 nH, 0.3 nH, 1.0x0.5x0.5mm       |        |
| 1     | 2703-002213 | L502      | INDUCTOR-SMD 3.3 nH, 5 %, 1.6X0.8X0.8MM          |        |
| 1     | 2703-002212 | L503      | INDUCTOR-SMD 1.6 nH, 5 %, 1.6X0.8X0.8MM          |        |
| 1     | 2703-001514 | L504      | INDUCTOR-SMD 68 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-002213 | L505      | INDUCTOR-SMD 3.3 nH, 5 %, 1.6X0.8X0.8MM          |        |
| 1     | 2703-002284 | L506      | INDUCTOR-SMD 8.2 nH, $\pm 0.5$ nH, 1.6X0.8X0.8MM |        |
| 1     | 2703-001514 | L507      | INDUCTOR-SMD 68 nH, 5 %, 1.8x1.12x1.02mm         |        |
| 1     | 2703-000175 | L600      | INDUCTOR-SMD 270 nH, 10 %, 0.8x1.6x0.8mm         |        |
| 1     | 3301-001208 | L602      | CORE-FERRITE BEAD AB, 1.6x0.8x0.8mm, -, -        |        |
| 1     | 2703-002298 | L603      | INDUCTOR-SMD 8.2 nH, $\pm 10$ %, 1.6X0.8X0.8MM   |        |
| 1     | 4709-001144 | LAM1      | COUPLER-DIRECTION 897.5/1747.5MHZ,               |        |
| 1     | 0604-001146 | LED600    | PHOTO-IRDA -, 875NM, 500 mW, 30DEG, TP           |        |
| 1     | 2801-003695 | OSC100    | CRYSTAL-SMD 19.5MHz, 10ppm, 28-ABK, 10.2pF, 20   |        |
| 1     | 2801-003747 | OSC200    | CRYSTAL-SMD .032768MHZ, 30PPM, 28-ACM, 9PF,      |        |
| 1     | 2806-001191 | OSC300    | OSCILLATOR-VCO 1258-1360MHZ, -, 50 ohm, TP,      |        |
| 1     | 0501-000162 | Q200      | TR-SMALL SIGNAL 2SA1576, PNP, 200 mW, SOT-323,   |        |
| 1     | 0504-000168 | Q201      | TR-DIGITAL RN1104, NPN, 100 mW, 47K/47K, SSM, TP |        |
| 1     | 0501-002357 | Q400      | TR-SMALL SIGNAL ZUMT619, NPN, 500 mW, SOT-323,   |        |
| 1     | 0501-002202 | Q401      | TR-SMALL SIGNAL MMBT2222AWT1, NPN, 150 mW,       |        |
| 1     | 0504-001012 | Q500      | TR-DIGITAL DTC114YE, NPN, 150 mW, 10K/47K,       |        |
| 1     | 0504-001012 | Q501      | TR-DIGITAL DTC114YE, NPN, 150 mW, 10K/47K,       |        |
| 1     | 0504-001042 | Q502      | TR-DIGITAL BCR10PN, NPN/PNP, 250 mW, 10K/10K,    |        |
| 1     | 0504-000168 | Q600      | TR-DIGITAL RN1104, NPN, 100 mW, 47K/47K, SSM, TP |        |
| 1     | 0501-002346 | Q601      | TR-SMALL SIGNAL 2SB1427, PNP, 500 mW, SOT-89,    |        |
| 1     | 0501-002356 | Q603      | TR-SMALL SIGNAL -, NPN, 250 mW, SOT-323, TP,     |        |
| 1     | 0504-001012 | Q604      | TR-DIGITAL DTC114YE, NPN, 150 mW, 10K/47K,       |        |
| 1     | 0504-001012 | Q605      | TR-DIGITAL DTC114YE, NPN, 150 mW, 10K/47K,       |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                          | Remark |
|-------|-------------|-----------|---------------------------------------|--------|
| 1     | 2007-000140 | R100      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000140 | R101      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001313 | R103      | R-CHIP 330 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007092 | R104      | R-CHIP 1.1 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000775 | R105      | R-CHIP 33 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007468 | R106      | R-CHIP 121 kohm, 1 %, 1/16 W, DA, TP, |        |
| 1     | 2007-007092 | R107      | R-CHIP 1.1 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000137 | R207      | R-CHIP 2 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000148 | R209      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R211      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R212      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R213      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R214      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R215      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000138 | R216      | R-CHIP 100 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007771 | R217      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,    |        |
| 1     | 2007-000170 | R218      | R-CHIP 1 Mohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000140 | R219      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007771 | R280      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,    |        |
| 1     | 2007-001288 | R300      | R-CHIP 18 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001288 | R301      | R-CHIP 18 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001323 | R302      | R-CHIP 3 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000172 | R303      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000172 | R304      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001288 | R305      | R-CHIP 18 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001323 | R306      | R-CHIP 3 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-008213 | R307      | R-CHIP 4.3 kohm, 1 %, 1/16 W, DA, TP, |        |
| 1     | 2007-007001 | R308      | R-CHIP 3.9 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000172 | R309      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001298 | R310      | R-CHIP 51 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000172 | R311      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000146 | R312      | R-CHIP 6.8 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000138 | R313      | R-CHIP 100 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007136 | R314      | R-CHIP 4.7 kohm, 1 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000172 | R315      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001298 | R316      | R-CHIP 51 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000172 | R317      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                          | Remark |
|-------|-------------|-----------|---------------------------------------|--------|
| 1     | 2007-000172 | R318      | R-CHIP 10 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007771 | R403      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,    |        |
| 1     | 2007-000162 | R404      | R-CHIP 100 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000143 | R407      | R-CHIP 4.7 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000143 | R409      | R-CHIP 4.7 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000138 | R410      | R-CHIP 100 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007156 | R411      | R-CHIP 1 ohm, 5 %, 1/16 W, DA, TP,    |        |
| 1     | 2007-000138 | R412      | R-CHIP 100 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000141 | R413      | R-CHIP 2.2 kohm, 5 %, 1/16 W, DA, TP, |        |
| 1     | 2007-000157 | R414      | R-CHIP 47 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000140 | R500      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000140 | R502      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-000148 | R503      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R505      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-001298 | R506      | R-CHIP 51 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007193 | R507      | R-CHIP 5.1 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-001298 | R508      | R-CHIP 51 ohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007193 | R509      | R-CHIP 5.1 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000148 | R510      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000137 | R511      | R-CHIP 2 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007142 | R512      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007312 | R513      | R-CHIP 20 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-001308 | R514      | R-CHIP 200 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R515      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R516      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R517      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-001305 | R518      | R-CHIP 120 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R519      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R520      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-007142 | R521      | R-CHIP 10 kohm, 1 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000137 | R522      | R-CHIP 2 kohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-001306 | R523      | R-CHIP 150 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-001308 | R524      | R-CHIP 200 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000170 | R525      | R-CHIP 1 Mohm, 5 %, 1/16 W, DA, TP,   |        |
| 1     | 2007-007771 | R526      | R-CHIP 0 ohm, 5 %, 1/16 W, DA, TP,    |        |
| 1     | 2007-007095 | R527      | R-CHIP 390 ohm, 5 %, 1/16 W, DA, TP,  |        |
| 1     | 2007-000139 | R528      | R-CHIP 220 ohm, 5 %, 1/16 W, DA, TP,  |        |

| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                      | Remark |
|-------|-------------|-----------|---------------------------------------------------|--------|
| 1     | 2007-000140 | R529      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000148 | R530      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-000145 | R531      | R-CHIP 6.2 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-008117 | R532      | R-CHIP 2.7 kohm, 1 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000162 | R533      | R-CHIP 100 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000140 | R601      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-001301 | R604      | R-CHIP 68 ohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000242 | R605      | R-CHIP 1.5 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000165 | R607      | R-CHIP 200 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000162 | R609      | R-CHIP 100 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000148 | R610      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-000142 | R611      | R-CHIP 2.7 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000162 | R612      | R-CHIP 100 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000140 | R613      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000140 | R616      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000154 | R619      | R-CHIP 24 kohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-001119 | R620      | R-CHIP 680 ohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-001339 | R621      | R-CHIP 180 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-001306 | R635      | R-CHIP 150 ohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-007316 | R637      | R-CHIP 3.3 kohm, 1 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000140 | R638      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000140 | R639      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000140 | R640      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-000162 | R641      | R-CHIP 100 kohm, 5 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000140 | R642      | R-CHIP 1 kohm, 5 %, 1/16 W, DA, TP,               |        |
| 1     | 2007-007592 | R643      | R-CHIP 270 kohm, 1 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-007875 | R644      | R-CHIP 160 kohm, 1 %, 1/16 W, DA, TP,             |        |
| 1     | 2007-000152 | R646      | R-CHIP 20 kohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 2007-000148 | R648      | R-CHIP 10 kohm, 5 %, 1/16 W, DA, TP,              |        |
| 1     | 1205-001708 | U100      | IC-CODEC 20420, BGA, 100P, -, PLASTIC, 2.7V, -, - |        |
| 1     | 0902-001231 | U201      | IC-MICROPROCESSOR 46, 16BIT, BGA, 180P, -,        |        |
| 1     | 1203-001592 | U202      | IC-VOLTAGE REGULATOR 1015, SOT-23A-5, 5P,         |        |
| 1     | 1205-001647 | U300      | IC-TRANSCIEVER RF137, TQFP, 48P, 275MIL,          |        |
| 1     | 0801-002641 | U330      | IC-CMOS LOGIC 7WZ08, 2-INPUT AND GATE, US8,       |        |
| 1     | 1203-001703 | U400      | IC-VOLTAGE REGULATOR 20436, TQFP, 48P, 275MIL, ,  |        |
| 1     | 1203-002099 | U401      | IC-VOLTAGE REGULATOR 5245, SOT-23-5, 5P, 64MIL,   |        |
| 1     | 0504-001042 | U500      | TR-DIGITAL BCR10PN, NPN/PNP, 250 mW, 10K/10K,     |        |

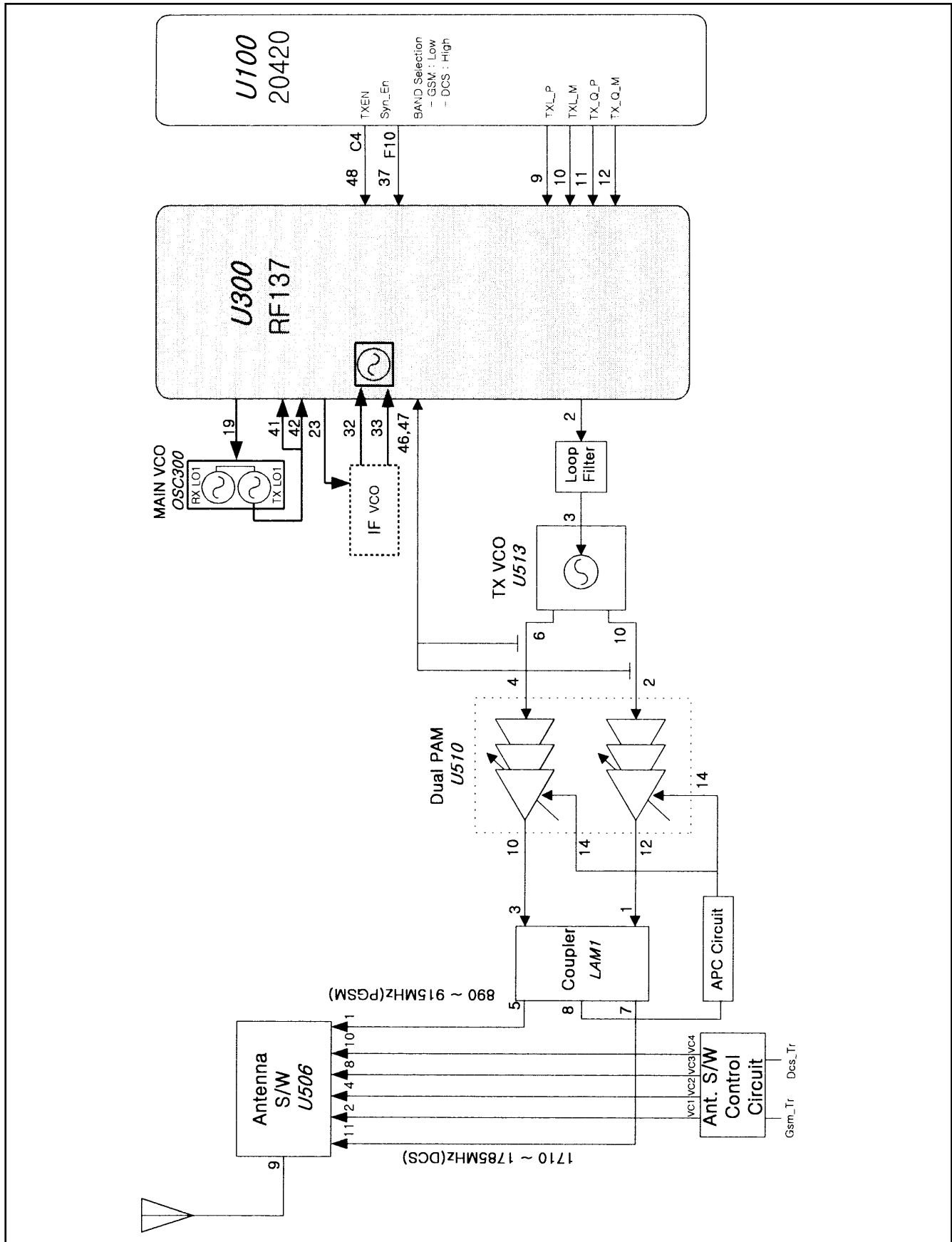
| Level | SEC CODE    | REFERENCE | DESCRIPTIONS                                         | Remark |
|-------|-------------|-----------|------------------------------------------------------|--------|
| 1     | 0504-001042 | U501      | TR-DIGITAL BCR10PN, NPN/PNP, 250 mW, 10K/10K,        |        |
| 1     | 0504-001042 | U502      | TR-DIGITAL BCR10PN, NPN/PNP, 250m W, 10K/10K,        |        |
| 1     | 0504-001012 | U503      | TR-DIGITAL DTC114YE, NPN, 150 mW, 10K/47K,           |        |
| 1     | 2909-001152 | U505      | FILTER-DUPLEXER 942.5MHZ, 897.5MHZ, 1/1.2DB,         |        |
| 1     | 2007-000137 | U506      | R-CHIP 2 kohm, 5 %, 1/16 W, DA, TP,                  |        |
| 1     | 1201-001697 | U507      | IC-IF/RF AMP RF210-51, TSSOP, 20P, 173MIL, -, -,     |        |
| 1     | 0504-001042 | U509      | TR-DIGITAL BCR10PN, NPN/PNP, 250m W, 10K/10K,        |        |
| 1     | 1201-001754 | U510      | IC-POWER AMP -, MCM, 16P, -, -, -, PLASTIC, 7V, -, - |        |
| 1     | 1209-001219 | U511      | IC-SENSOR LM60C, SOT-23, 3P, 115MIL, PLASTIC         |        |
| 1     | 0801-002640 | U512      | IC-CMOS LOGIC 7WZ00, 2-INPUT NAND GATE, US8,         |        |
| 1     | 2806-001192 | U513      | OSCILLATOR-VCO 902.5/1747.5MHZ, -, -, TP, 2.7 V,     |        |
| 1     | 1106-001301 | U514      | IC-SRAM 1337, 262Kx16Bit, CSP, 72P, -, 85nS, 3V, -,  |        |
| 1     | 1103-001147 | U515      | IC-EEPROM 24256, 256KBIT, SOP, 8P, 150MIL, -,        |        |
| 1     | 0506-001052 | U600      | TR-ARRAY UMH9N, NPN, 2, 150 mW, SC-88, TP, 68-       |        |
| 1     | 1201-001800 | U602      | IC-AUDIO AMP LM4900, MSOP, 8P, 118MIL, SINGLE, -,    |        |
| 1     | 0504-001071 | U603      | TR-DIGITAL UMD9N, NPN/PNP, 150 mW, 4.7, UMT6, TP     |        |
| 1     | 1201-001753 | U605      | IC-OP AMP -, MSOP, TP, 8P, 118MIL, DUAL, -,          |        |
| 1     | 0506-001052 | U8021     | TR-ARRAY UMH9N, NPN, 2, 150 mW, SC-88, TP, 68-       |        |
| 1     | 0406-001104 | U8022     | DIODE-TVS ESDA6V1-5W6, 6.1/-/7.2 V, 100 W,           |        |
| 1     | 3711-004916 | U8024     | CONNECTOR-HEADER -, 3P, -, 2.5MM, SMD-A, -,          |        |
| 1     | 2203-005509 | U8028     | C-CERAMIC, CHIP 330 nF, +80-20 %, 10 V, Y5 V, TP,    |        |
| 1     | 1203-002127 | U8031     | IC-BATTERY 1734, SOT-23, 6P, 150MIL, PLASTIC,        |        |
| 1     | 1405-001087 | V600      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V601      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V605      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V615      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V616      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V618      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V619      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 1405-001087 | V620      | VARISTOR 5.6 V, 20 A, 1x0.5x0.55mm, TP               |        |
| 1     | 0404-001044 | ZD400     | DIODE-SCHOTTKY UPS5817, 20 V, 1 A, SMD, TP           |        |
| 1     | 0404-000108 | ZD401     | DIODE-SCHOTTKY RB705D, 20 V, 30 mA, SOT-23, TP       |        |
| 1     | 0404-000108 | ZD402     | DIODE-SCHOTTKY RB705D, 20 V, 30 mA, SOT-23, TP       |        |
| 1     | 0406-001104 | ZD602     | DIODE-TVS ESDA6V1-5W6, 6.1/-/7.2 V, 100 W,           |        |
| 1     | 0406-001104 | ZD604     | DIODE-TVS ESDA6V1-5W6, 6.1/-/7.2 V, 100 W,           |        |
| 1     | 0406-001104 | ZD605     | DIODE-TVS ESDA6V1-5W6, 6.1/-/7.2 V, 100 W,           |        |
| 1     | GH41-00184A |           | PCB-SGHA400 SGH-A400, FR-4, 6L, -, 0.8T,             |        |





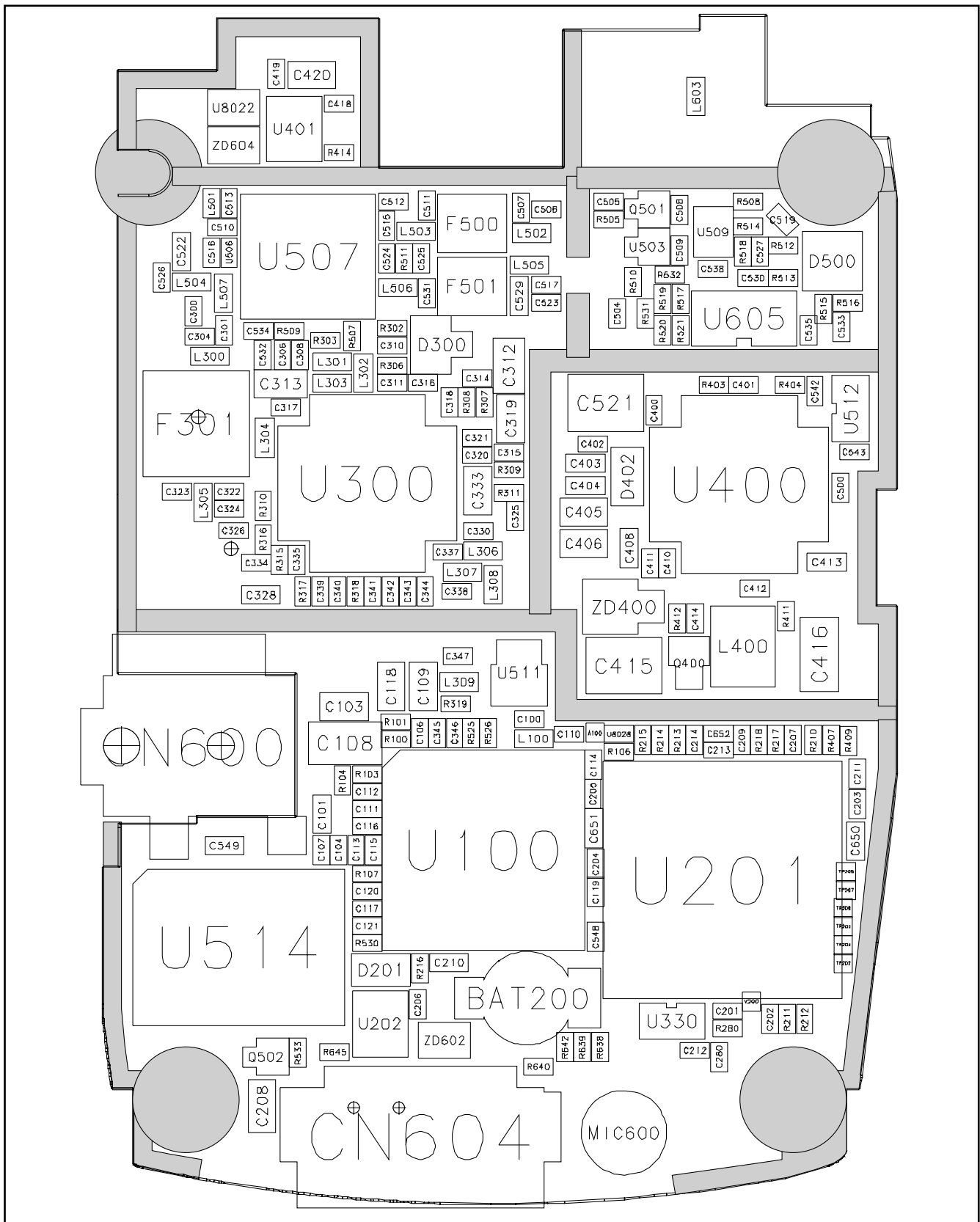


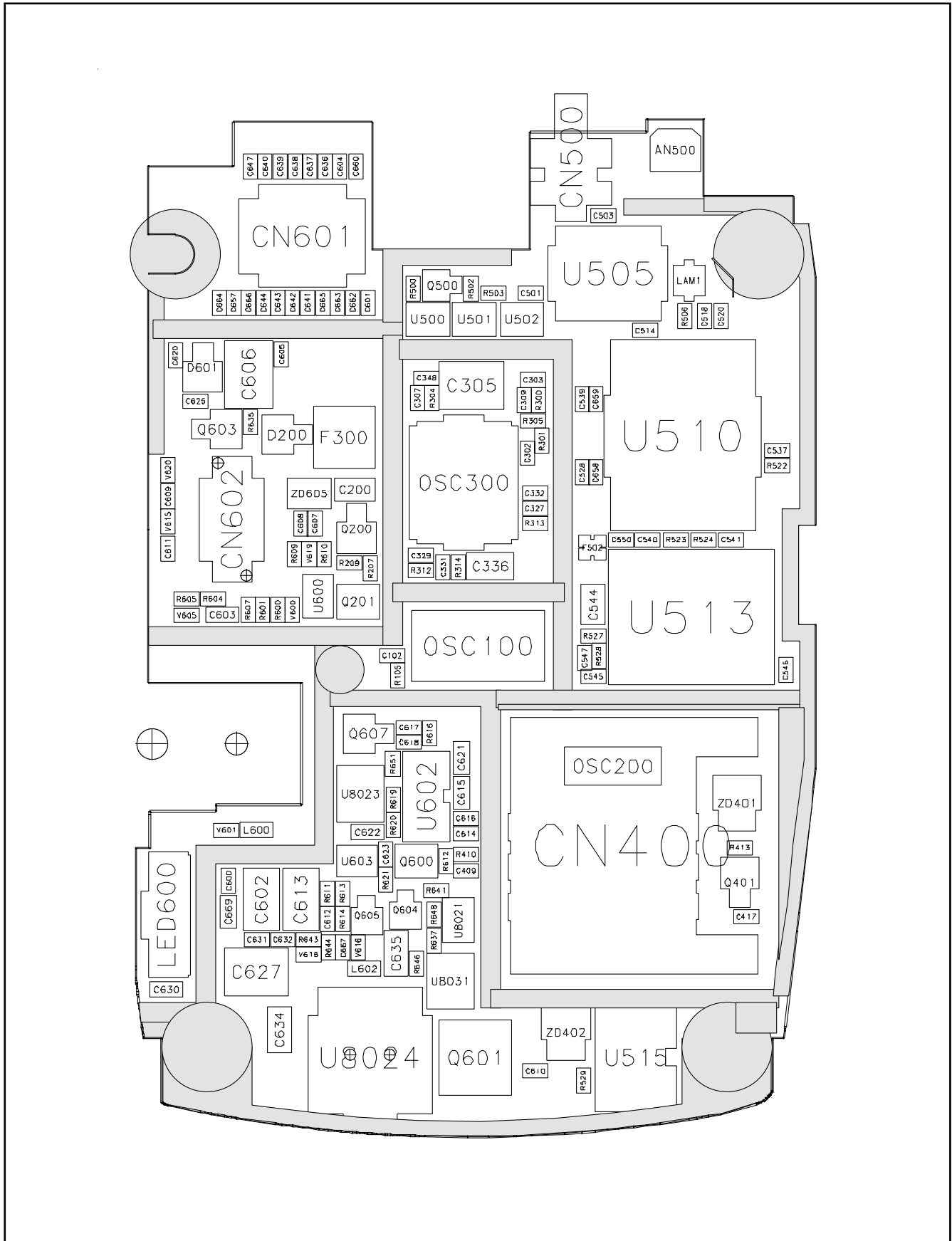
### 3-2-2 SGH-A400 RF Transmit Part Block Diagram



## 4. SGH-A400 PCB Diagrams

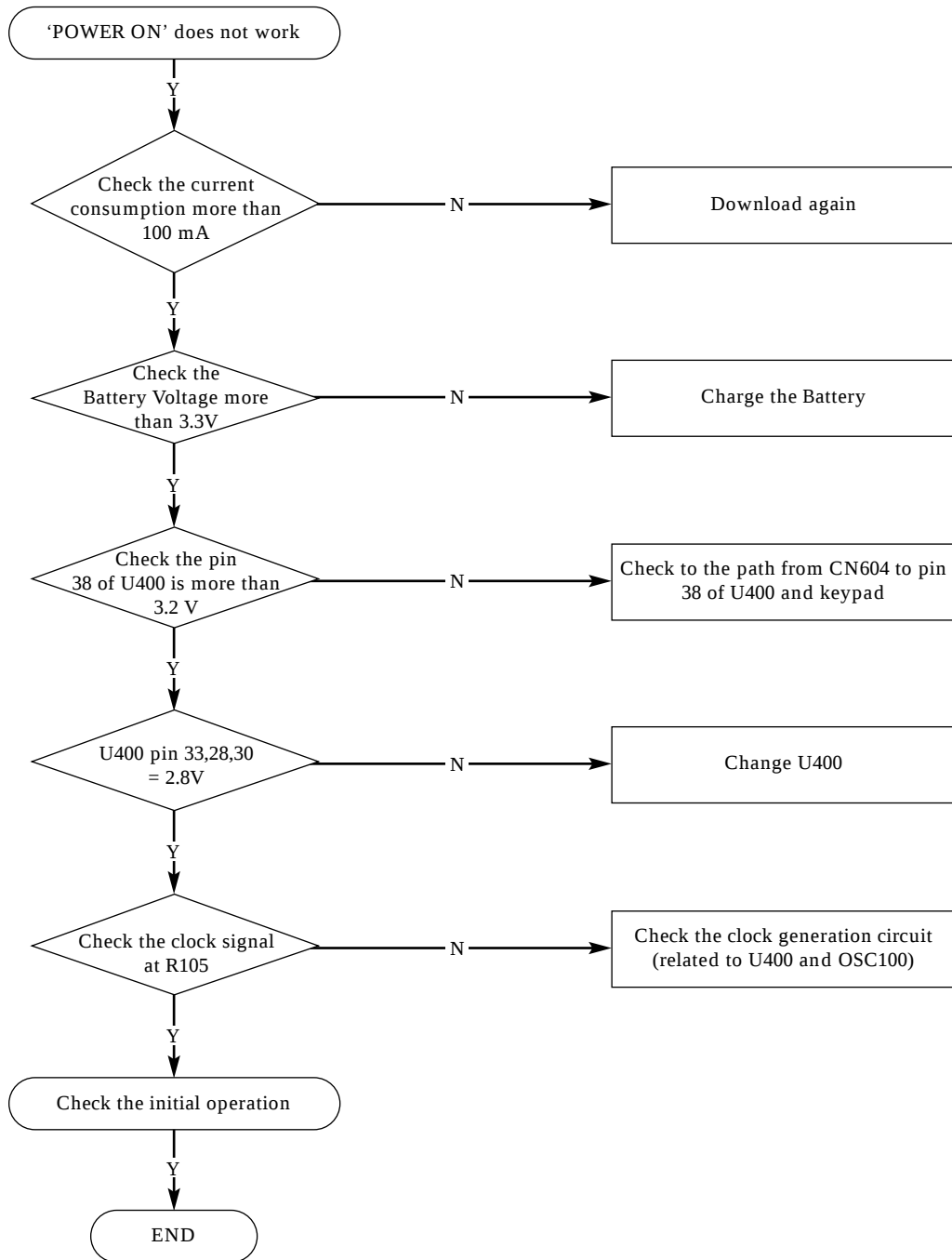
### 4-1 SGH-A400 Main PCB Top Diagram



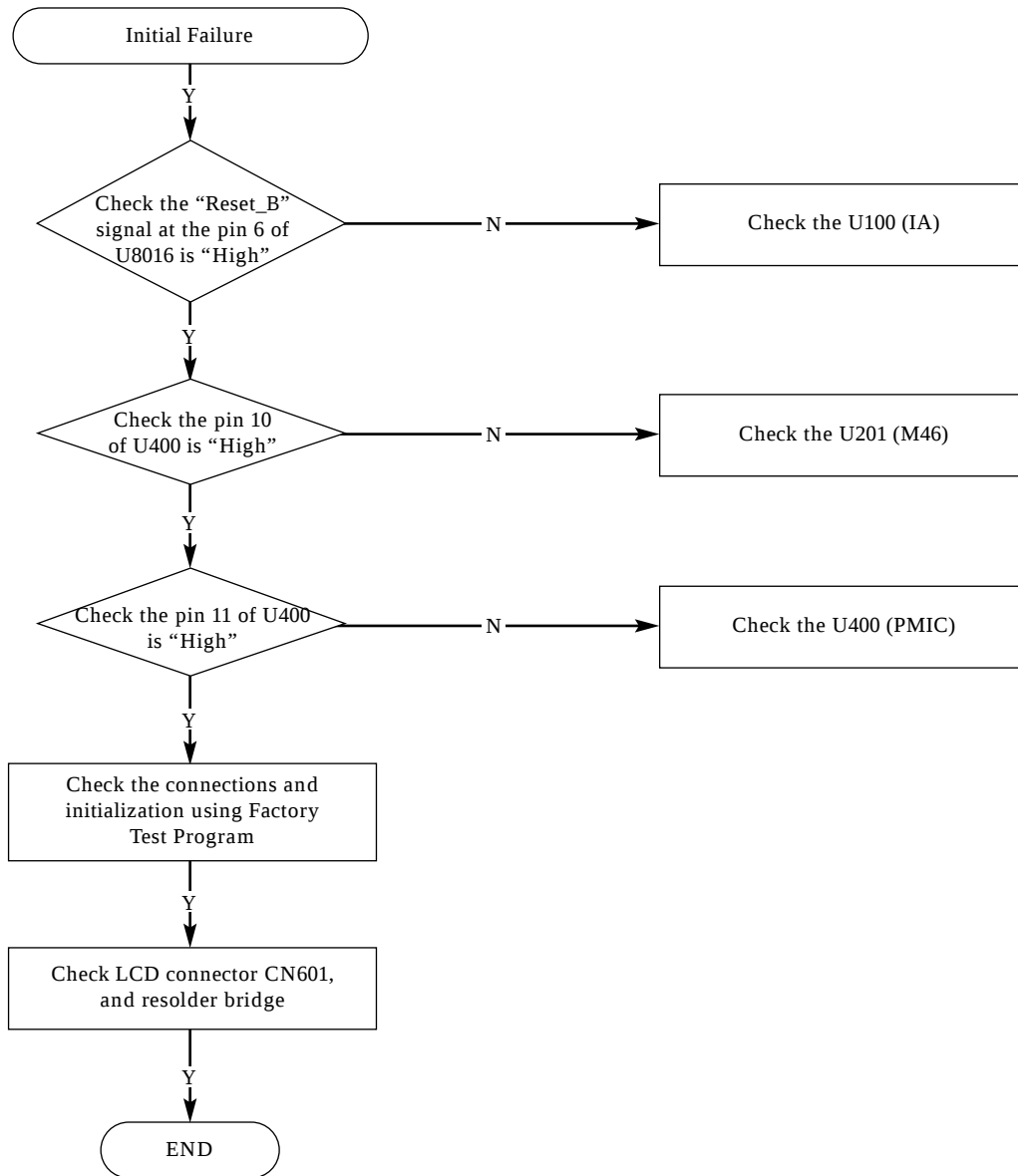


## 5.Flow Chart of Troubleshooting and Circuit Diagram

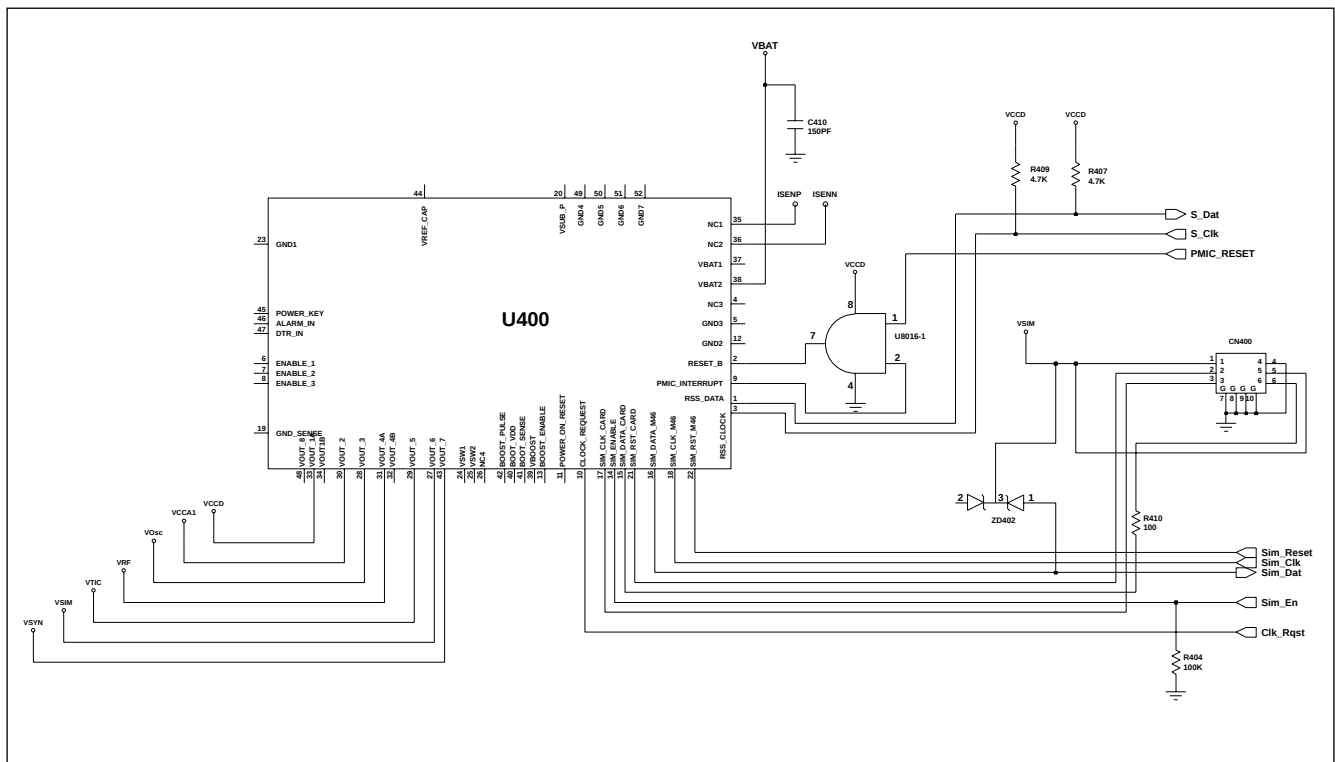
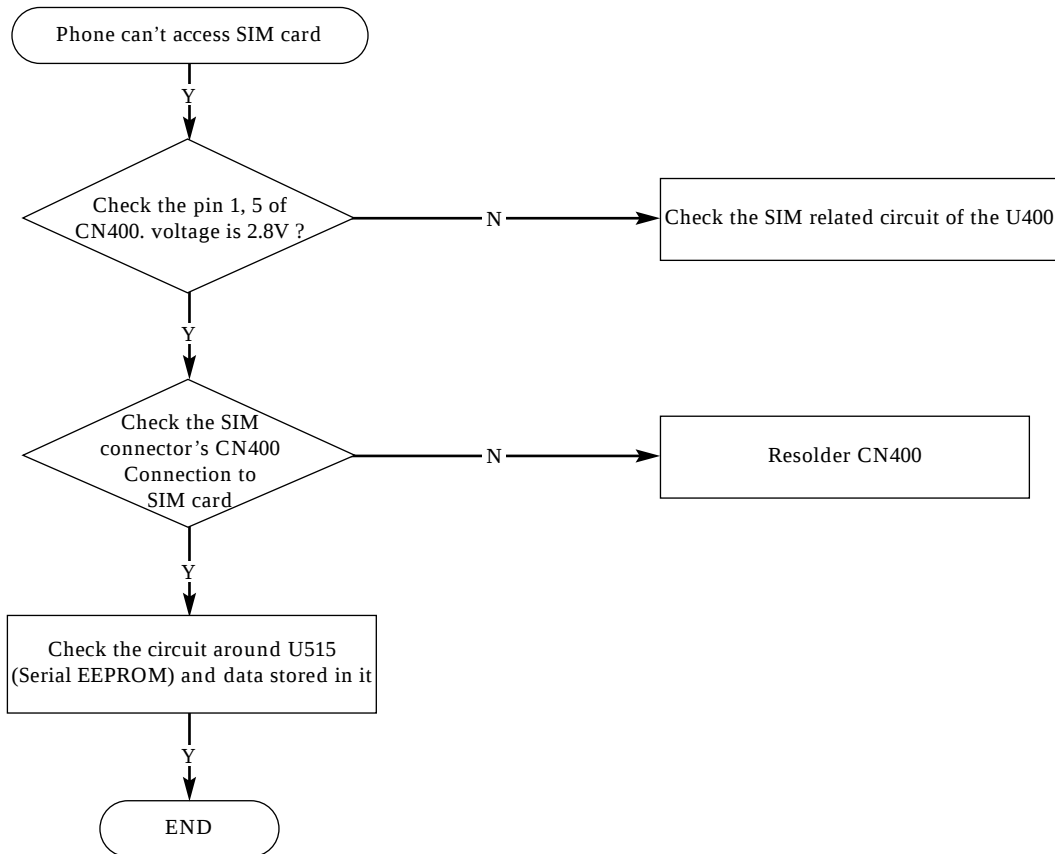
### 5-1 SGH-A400 Power ON

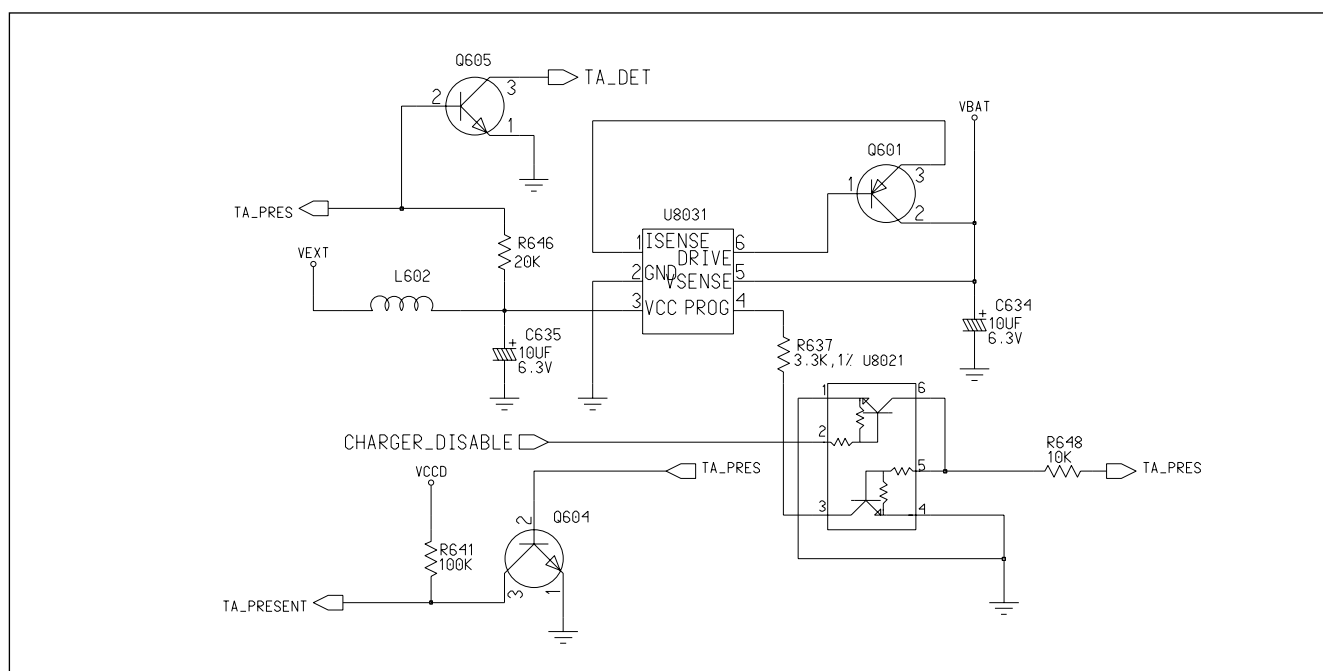


## 5-2 SGH-A400 Initial

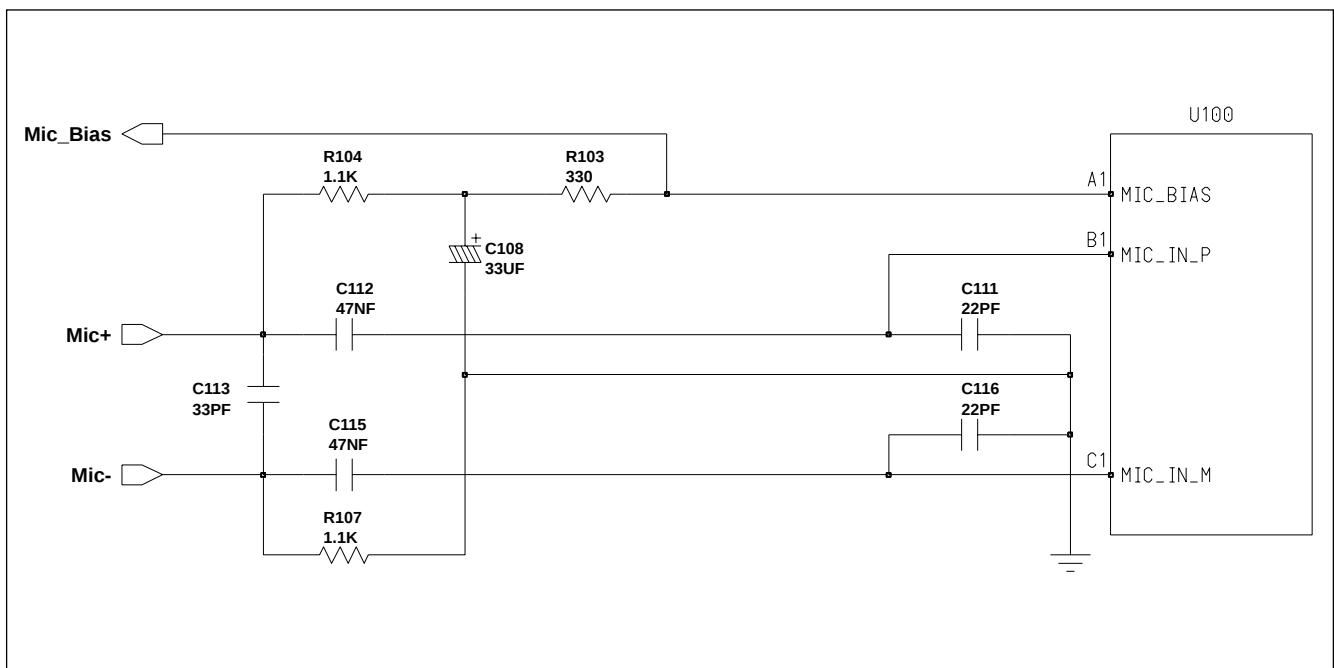
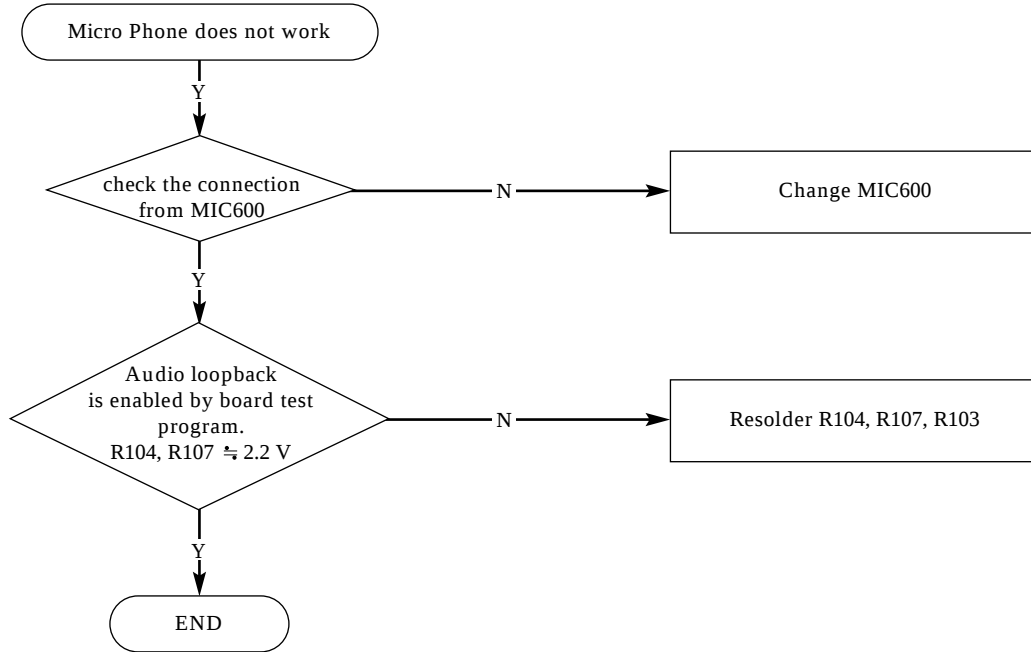


### 5-3 SGH-A400 Sim Part

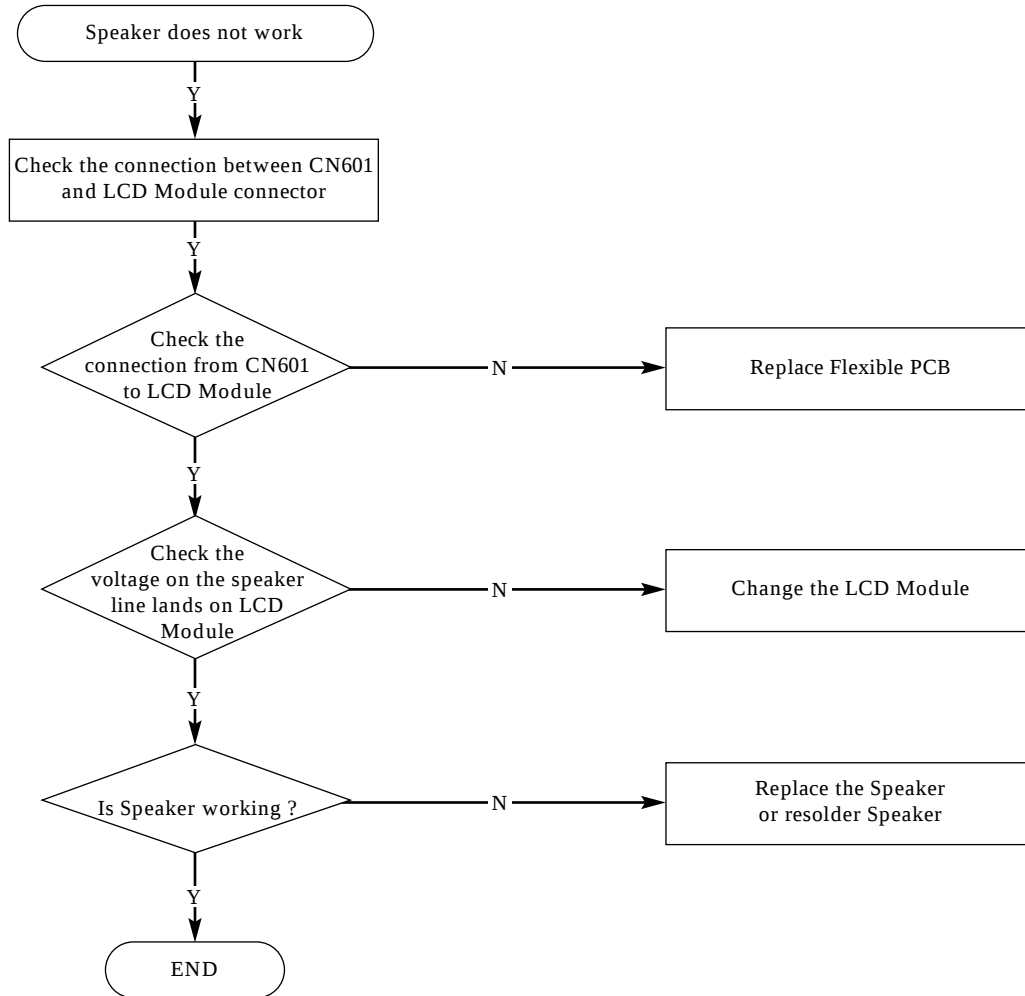




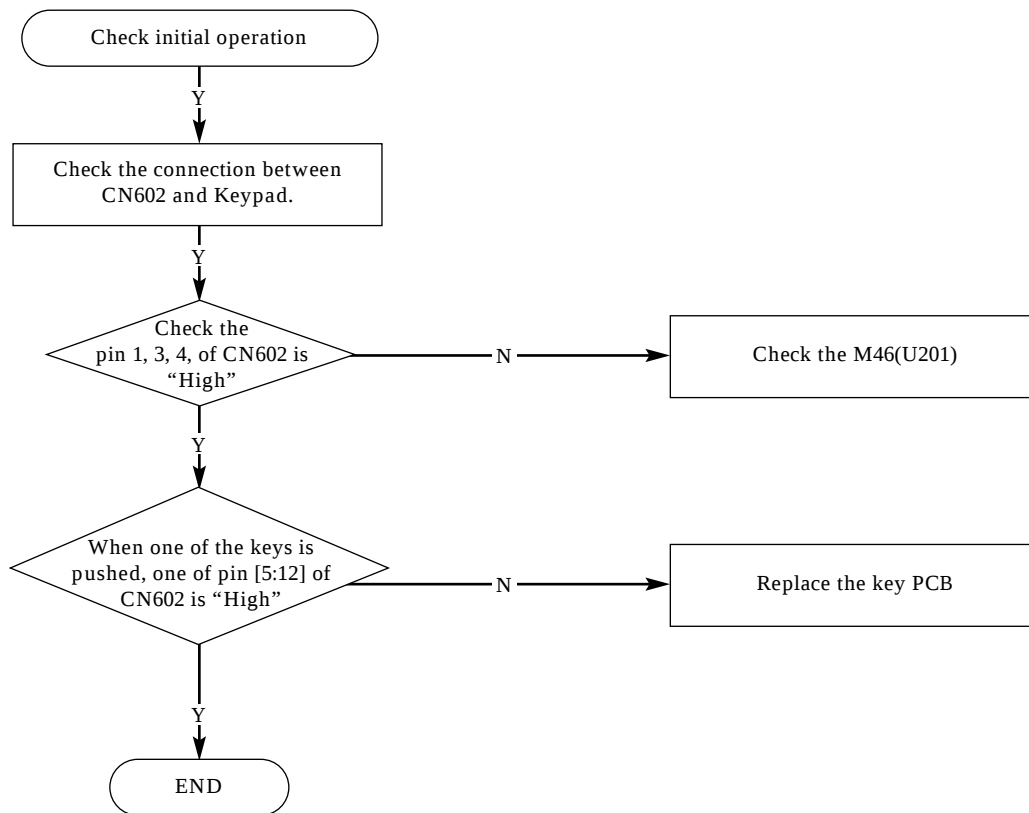
## 5-5 SGH-A400 Microphone Part



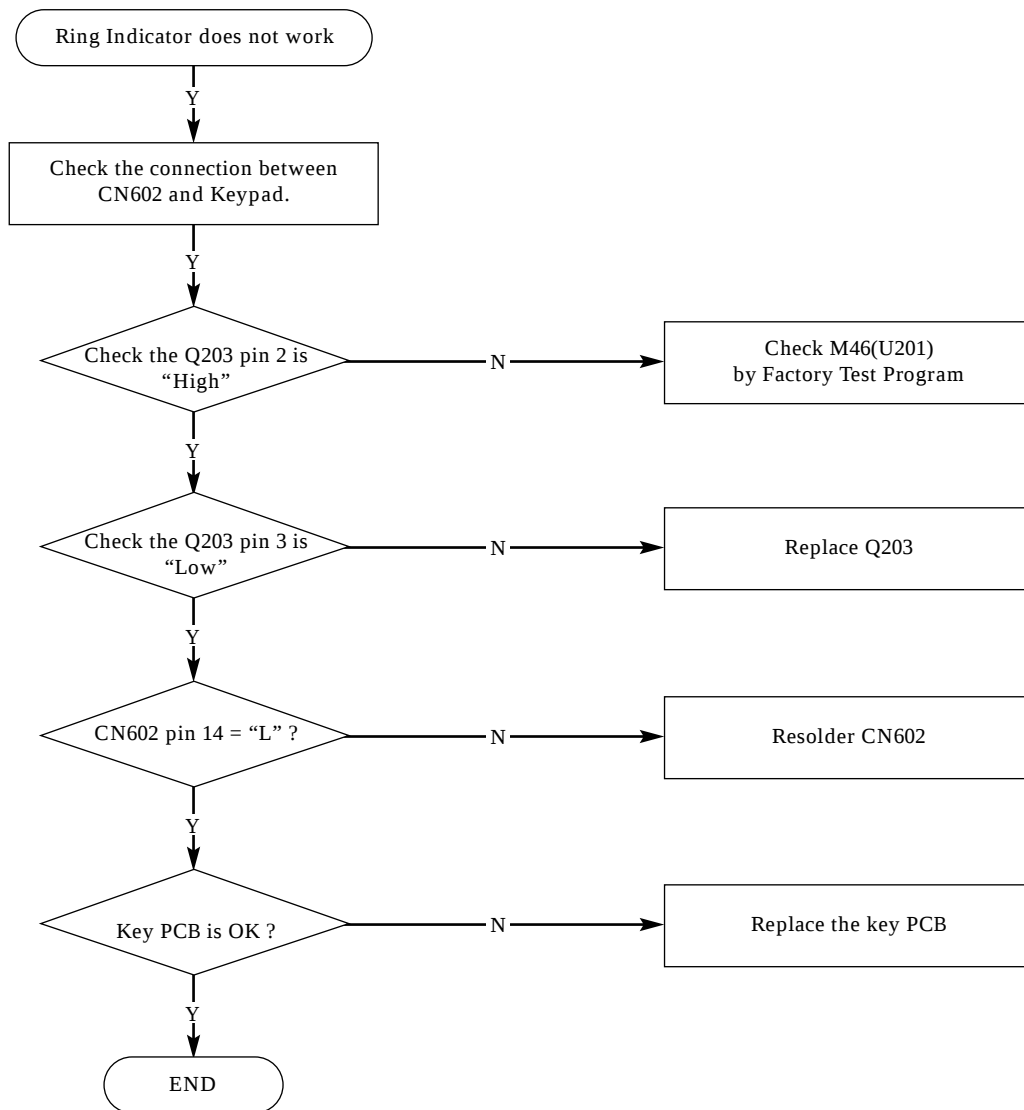
## 5-6 SGH-A400 Speaker Part



## 5-7 SGH-A400 Key Data Input

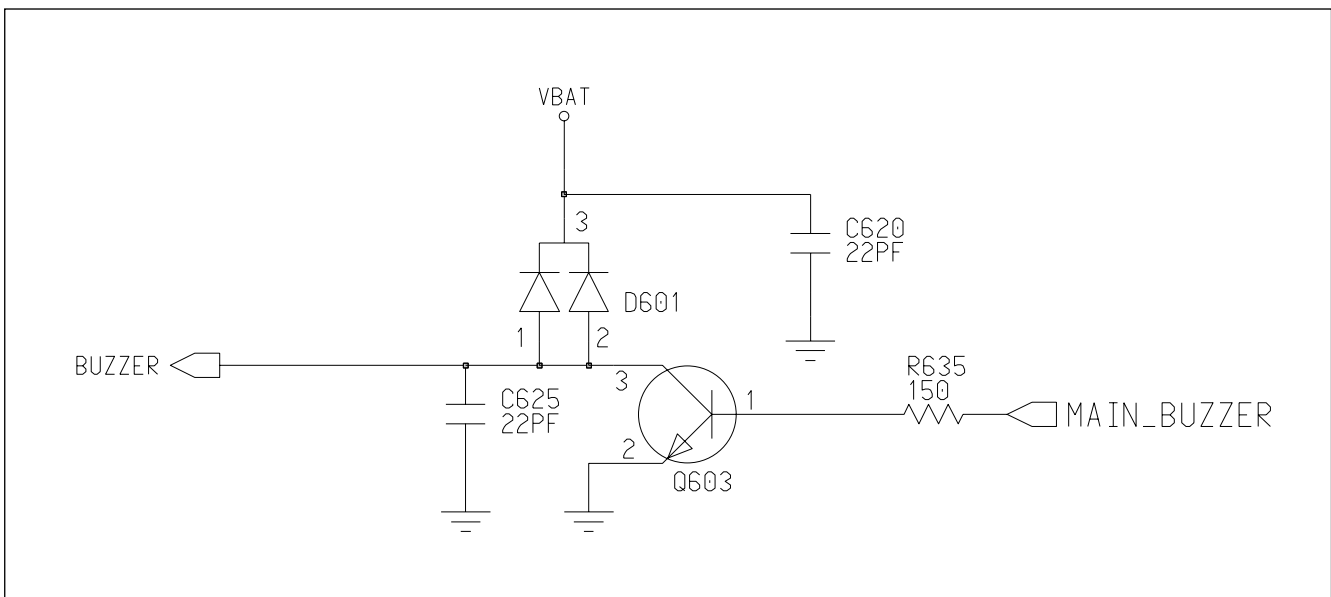
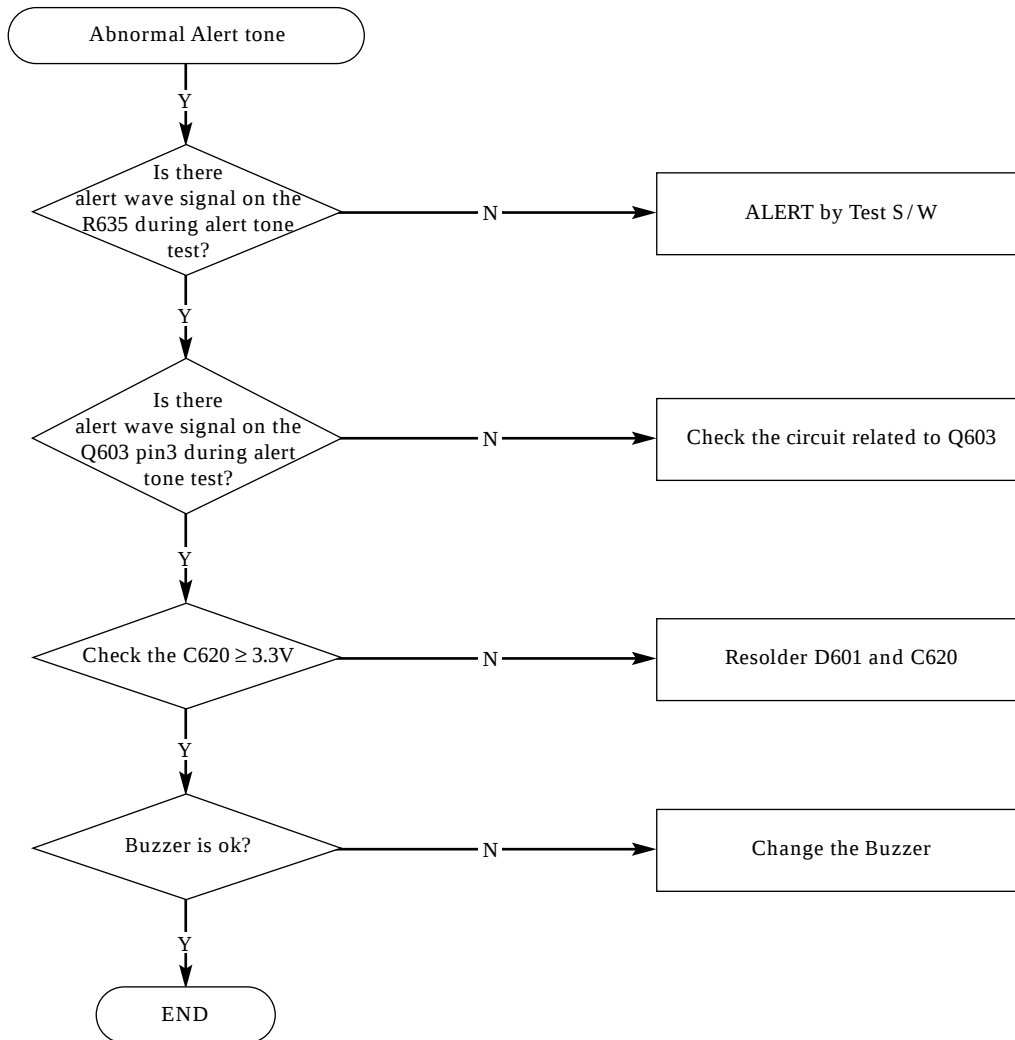


## 5-8 SGH-A400 Ring Indicator

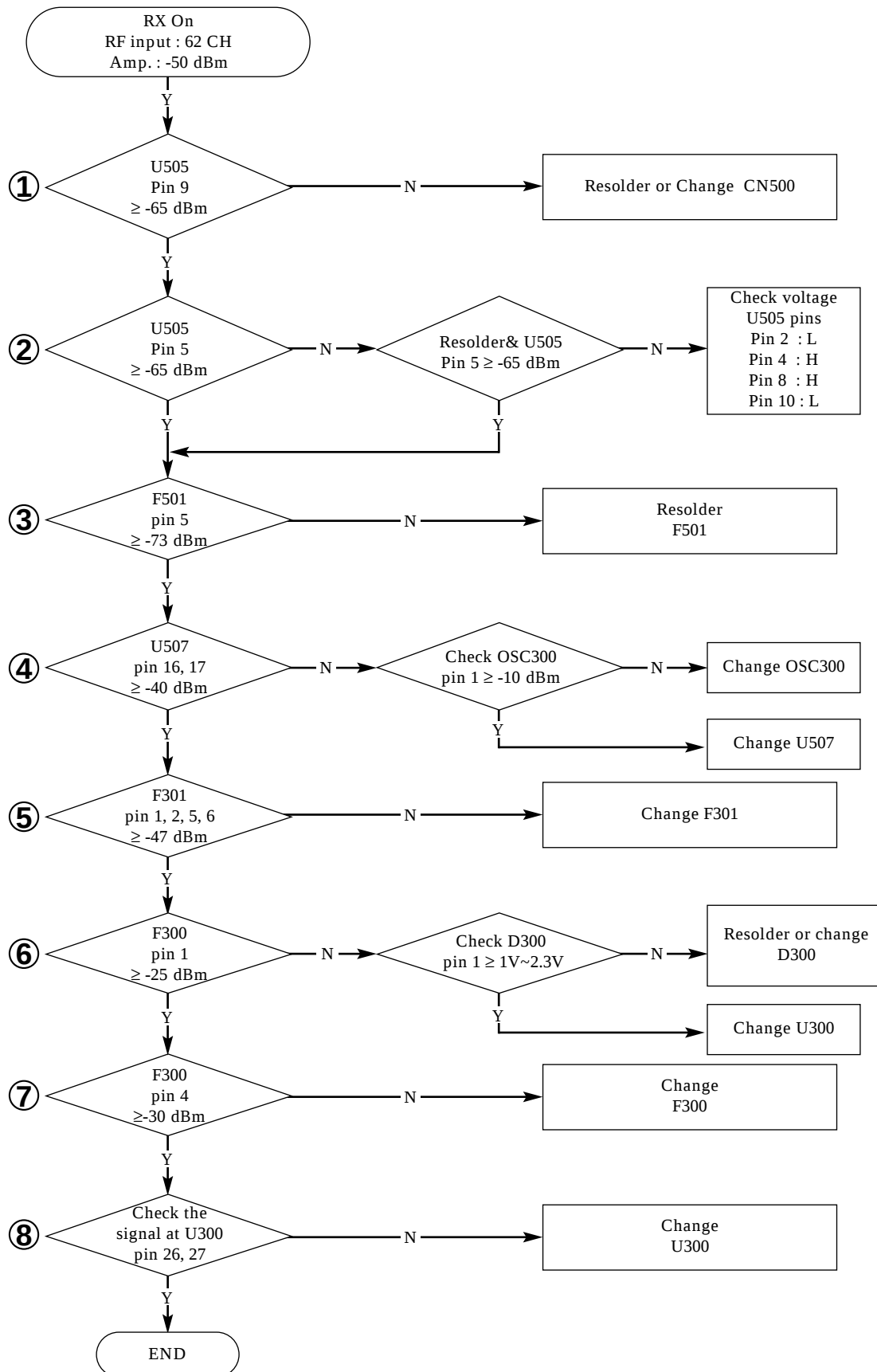




## 5-10 SGH-A400 Alert Tone



## 5-11 SGH-A400 GSM Receiver



## Test Condition of RF Bench Test

**RF Bench Test**

File Graph\_Control DSP\_control Synthesizer Misc\_Param

---

**Synth Channels**

Rx/Tx: [62] Mon: [5]

Rx: 947.4 902.4 936.0  
 L0: 1347.4 1271.4 1336.0

Rx IF = 400 MHz  
 Tx IF = 369 MHz

**MEW enables**

☒ Rx enable  
☒ Tx enable  
☐ Mon enable

**IFS Sequences**

☐ Normal  
☒ Cont. Rx  
☐ Cont. Tx

**XO Adjust**

Coarse: [0] Fine: [0]

**IQ DC Offset**

I: [0] Q: [0]

**IQ Balance**

[0]

**Burst Store data**

☐ Ones  
☐ Arbitrary  
☒ Insert Midamble  
☐ Invert

MidAmble Position: [59]

RequestWriteIARsync 0x1c14  
 0x3333 0x3330 0x27F0 0x2D9E  
 0x1E48 0x6C24 0xB844 0xBED2  
 0xF7A8 0x888D 0x27A4 0x3333

**Ramp Profile**

☐ Linear  
☐ Raised Cosine  
☒ RampLo980  
☐ RampHi980  
☐ Use values in box

GUI ramp...

**Profile**

0, 2  
 -384, 20  
 -253, 10  
 -109, 7  
 0, 6  
 12, 5  
 0, 4  
 -8, 2  
 -24, 2  
 -68, 2  
 -78, 2  
 -116, 2  
 -118, 2  
 -154, 2  
 -194, 2

**Actual**

0, 2  
 -384, 20  
 -253, 10  
 -109, 7  
 0, 6  
 12, 5  
 0, 4  
 -8, 2  
 -24, 2  
 -68, 2  
 -78, 2  
 -116, 2  
 -118, 2  
 -154, 2  
 -194, 2

**Graph Options**

☐ Freeze Graph  
☒ Auto Update  
☐ TestMode

Max Value: [-30]  
 Min Value: [-130]

**Tx Powerlevel**

[0] DAC  
 -20 dB  
 bf80 Ricke

**Cheaters Haven**

Radio type:  
☐ 900 Only  
☒ 900/1800  
☐ 900/1900  
☐ All Three

[2300]

**RxAGC Setting**

☒ Rx0  
☒ Rx1  
☒ Rx2

Max

☐ IA Gain 0 dB  
☐ IA Gain +6 dB  
☐ IA Gain +12 dB  
☐ IA Gain +18 dB  
☒ IA Gain +24 dB

**MonAGC Setting**

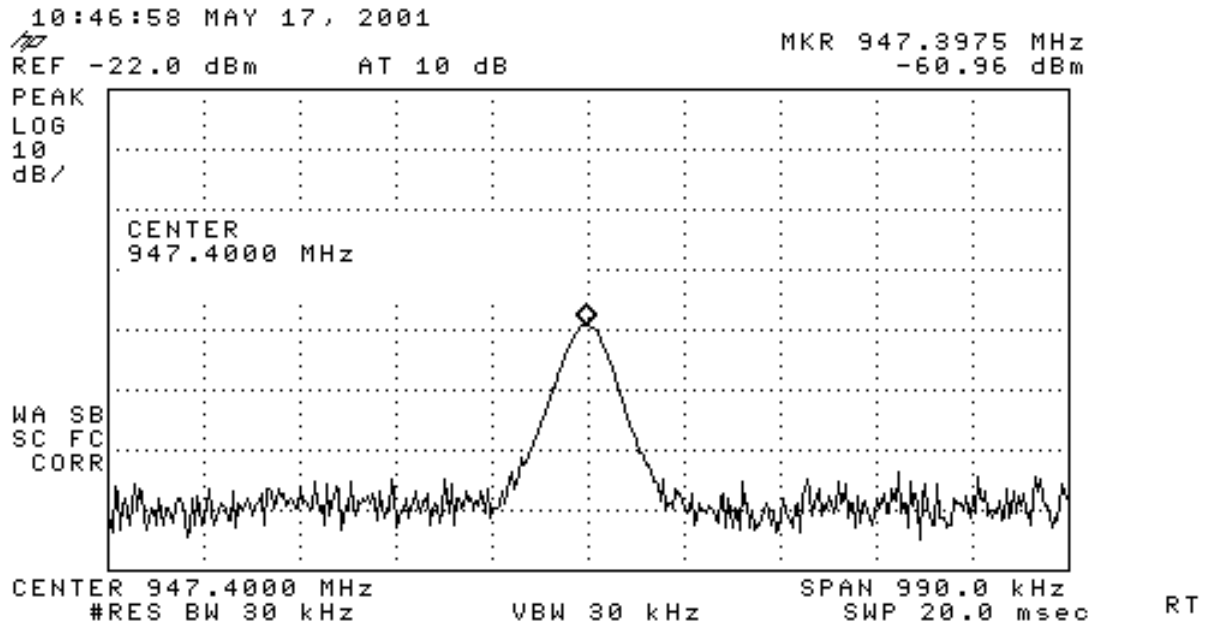
☒ Rx0  
☒ Rx1  
☐ Rx2

Mid High

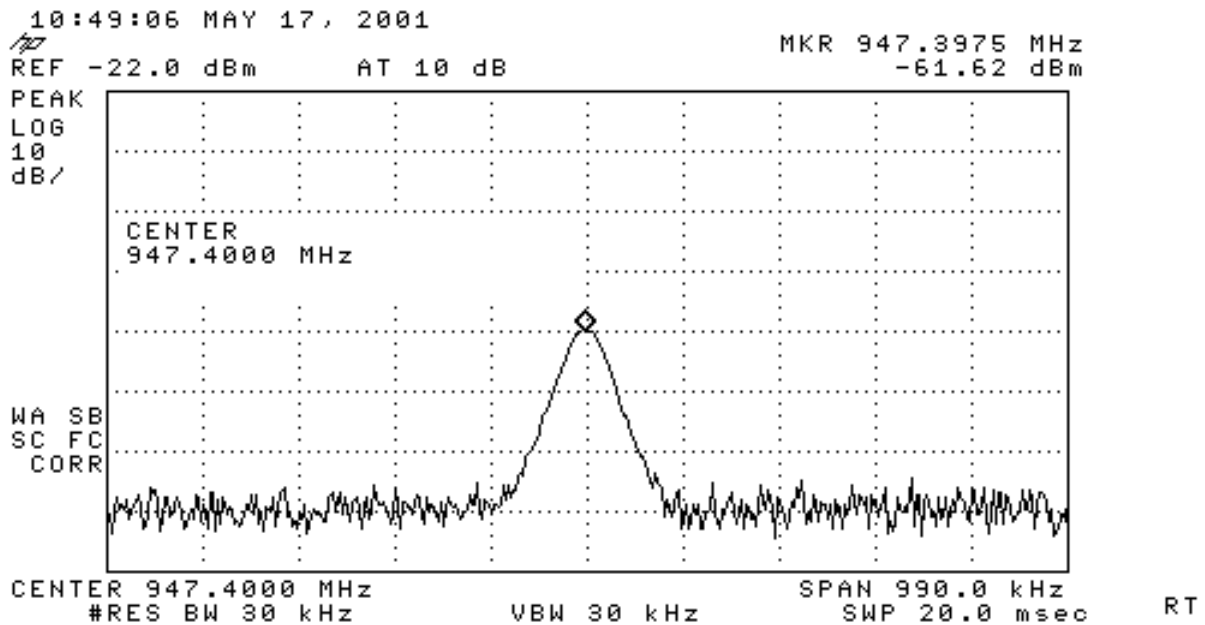
☐ IA Gain 0 dB  
☐ IA Gain +6 dB  
☐ IA Gain +12 dB  
☐ IA Gain +18 dB  
☒ IA Gain +24 dB

Version 1999.02.24  
 (Dual Band Tolerant)  
 Former Rockwell Internal Use Only

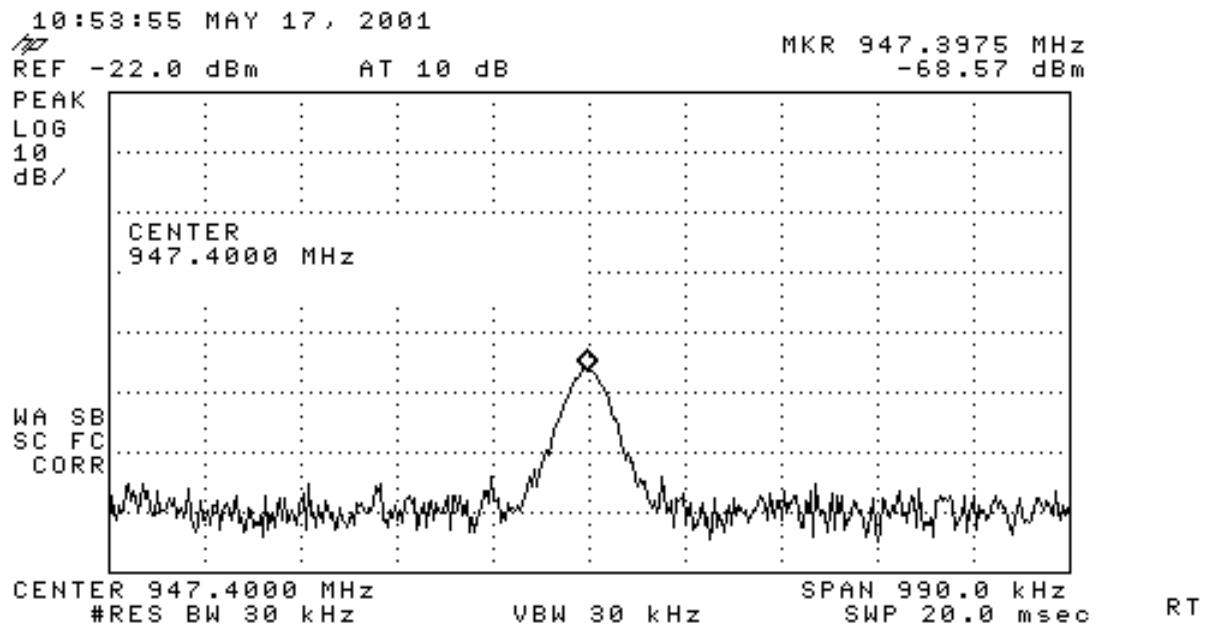
## ① RX\_62\_U505 PIN9



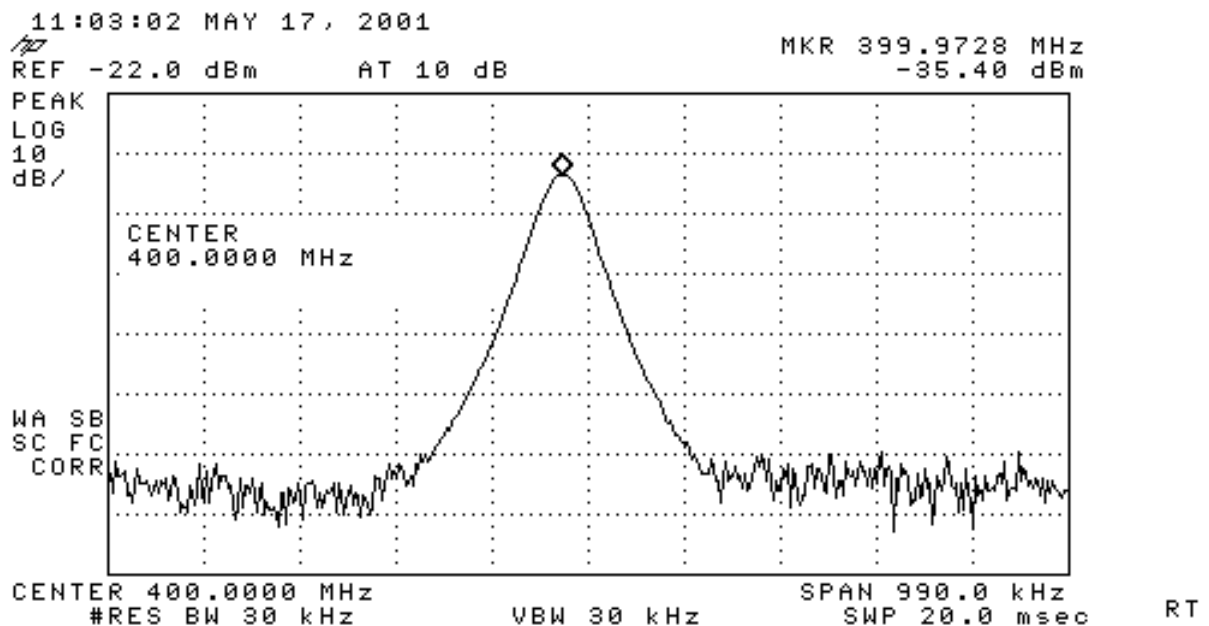
## ② RX\_62\_U505 PIN5



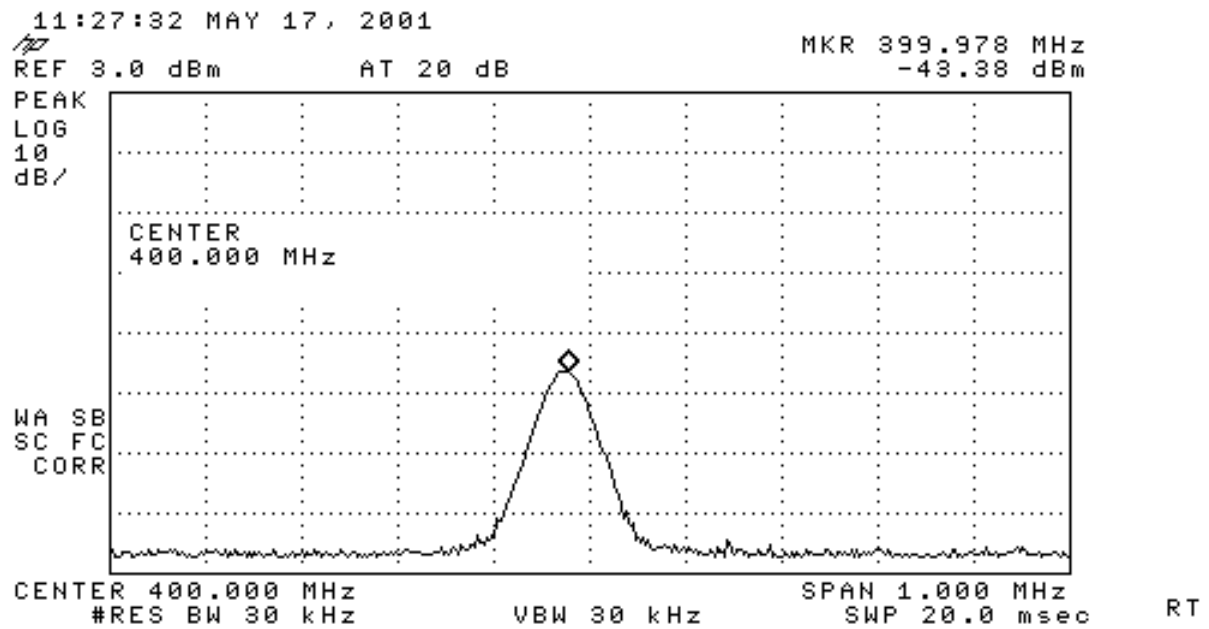
### ③ RX\_62\_F501 PIN5



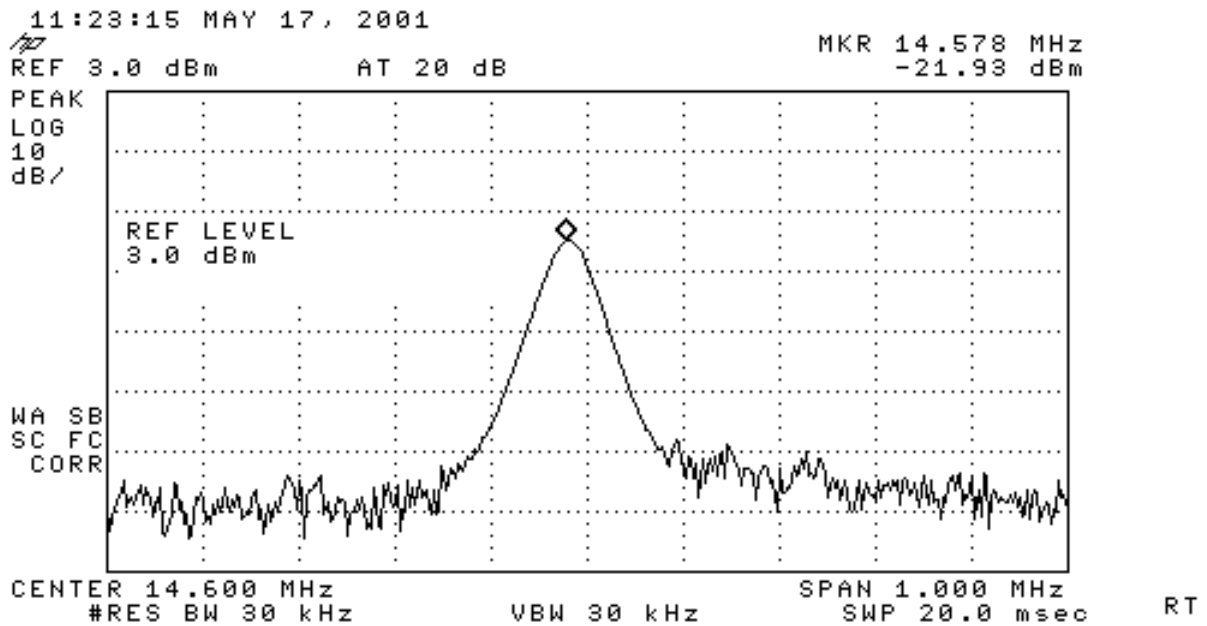
### ④ RX\_62\_U507 PIN16



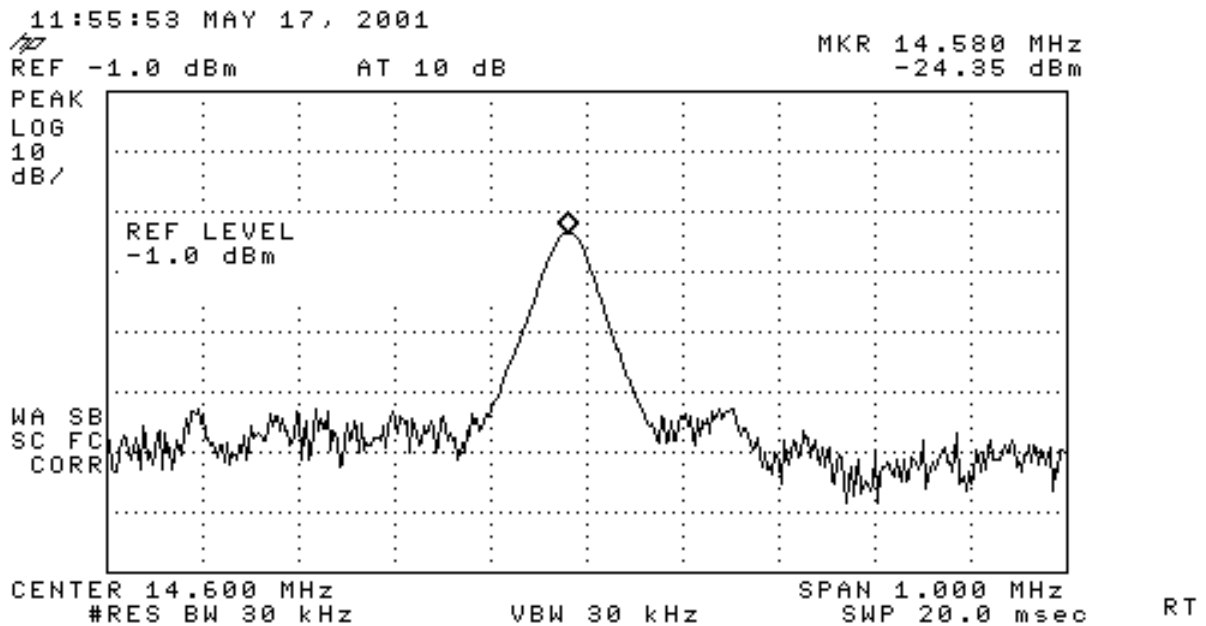
## ⑤ RX\_62\_F301 PIN1



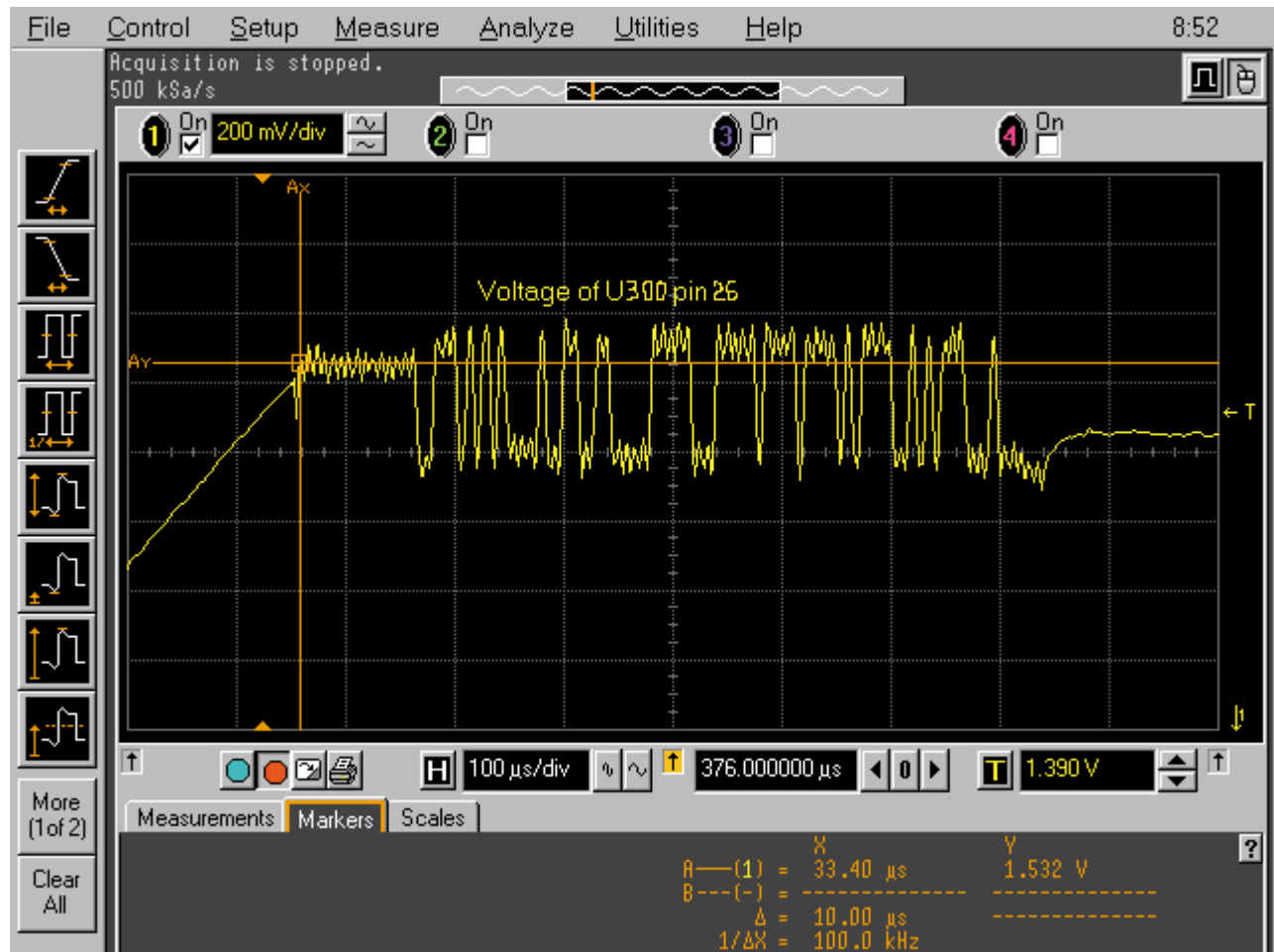
## ⑥ RX\_62\_F300 PIN1



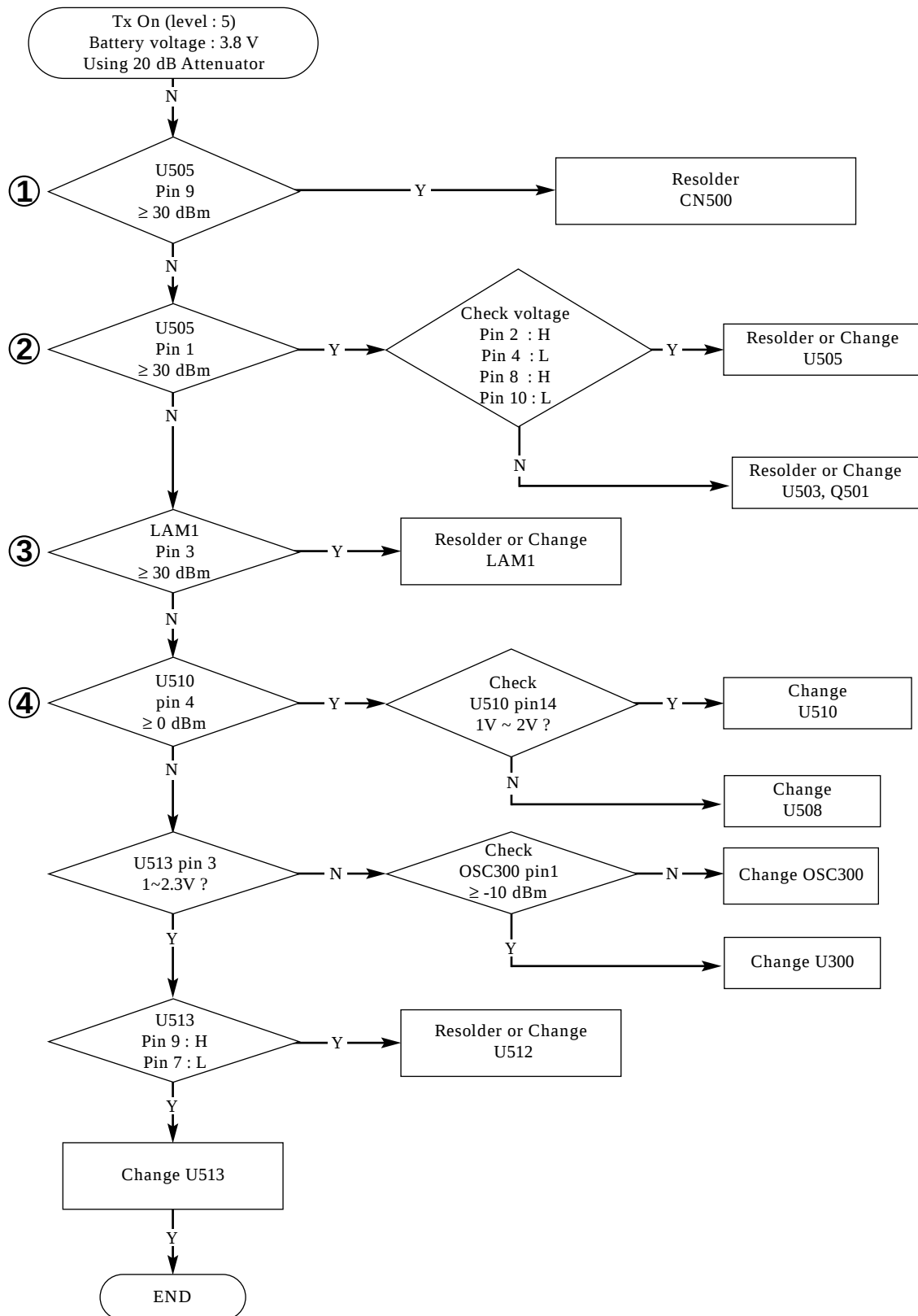
## ⑦ RX\_62\_F300 PIN4



## ⑧ U300\_ PIN26



## 5-12 SGH-A400 GSM Transmit



## Test Condition of RF Bench Test

**RF Bench Test**  
File Graph\_Control DSP\_control Synthesizer Misc\_Param

---

**Synth Channels**  
 Rx/Tx:  Mon:   
 Rx: 947.4 902.4 936.0  
 Tx: 1347.4 1271.4 1336.0  
 Rx IF = 400 MHz  
 Tx IF = 369 MHz

**MEW enables**  
☒ Rx enable  
☒ Tx enable  
☒ Mon enable

**IFS Sequences**  
☐ Normal  
☐ Cont. Rx  
☒ Cont. Tx

**XO Adjust**  
 Coarse:  Fine:

**-IQ DC Offset**  
 I:  Q:

**-IQ Balance**

**Burst Store data**  
☐ Ones ☐ 1010... ☐ 0011...  
☐ Arbitrary ☒ Random  
☒ Insert Midamble ☐ Invert  
 MidAmble Position:   
 RequestWriteIDMAsync: 0x1c14  
 0x3333 0x3330 0x1740 0x9BC5  
 0xE31D 0x80E4 0xB844 0xBCFE  
 0xECA8 0x1DAD 0x15CA 0x3333

**Ramp Profile**  
☐ Linear ☐ Andrew  
☐ Raised Cosine  
☒ RampLo980  
☐ RampHi980  
☐ Use values in box  
 GUI ramp...

**Profile**  
 Actual  

|          |          |
|----------|----------|
| -100, 2  | -100, 2  |
| -484, 20 | -484, 20 |
| -353, 10 | -353, 10 |
| -209, 7  | -209, 7  |
| -100, 6  | -100, 6  |
| -88, 5   | -88, 5   |
| -100, 4  | -100, 4  |
| -108, 2  | -108, 2  |
| -124, 2  | -124, 2  |
| -168, 2  | -168, 2  |
| -178, 2  | -178, 2  |
| -216, 2  | -216, 2  |
| -218, 2  | -218, 2  |
| -254, 2  | -254, 2  |
| -294, 2  | -294, 2  |

**Graph Options**  
☐ Freeze Graph  
☒ Auto Update  
☐ TestMode  
 Max Value:   
 Min Value:

**Tx Powerlevel**  
 DAC  
 dB  
 a680 Ricke

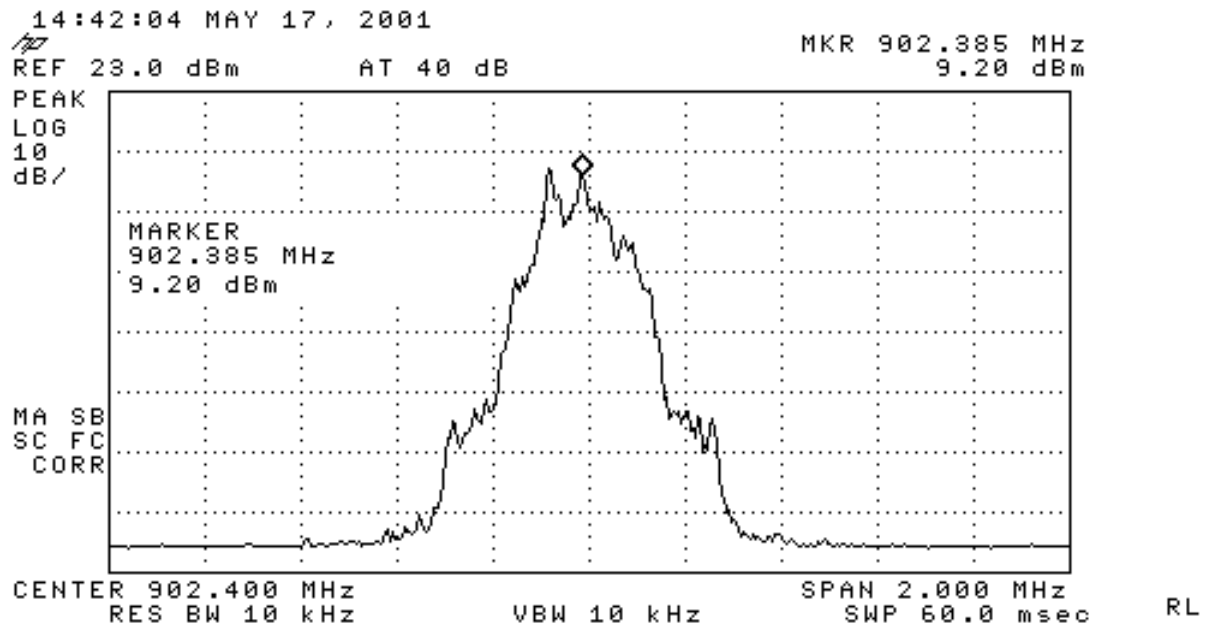
**Cheaters Haven**  
 Radio type: ☐ 900 Only ☐ 900/1900  
☒ 900/1800 ☐ All Three

**RxAGC Setting**  
☒ Rx0  
☒ Rx1  
☒ Rx2  
☐ IA Gain 0 dB  
☐ IA Gain +6 dB  
☐ IA Gain +12 dB  
☐ IA Gain +18 dB  
☒ IA Gain +24 dB

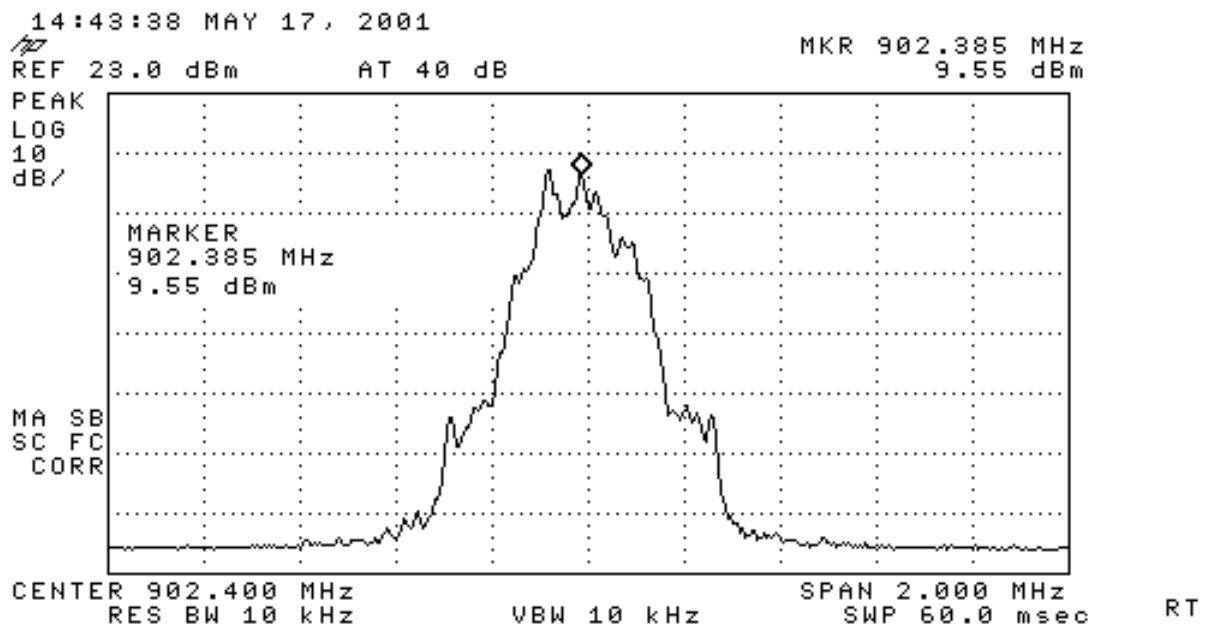
**MonAGC Setting**  
☒ Rx0  
☒ Rx1  
☐ Rx2  
☐ IA Gain 0 dB  
☐ IA Gain +6 dB  
☐ IA Gain +12 dB  
☐ IA Gain +18 dB  
☒ IA Gain +24 dB

**Version 1999.02.24**  
 (Dual Band Tolerant)  
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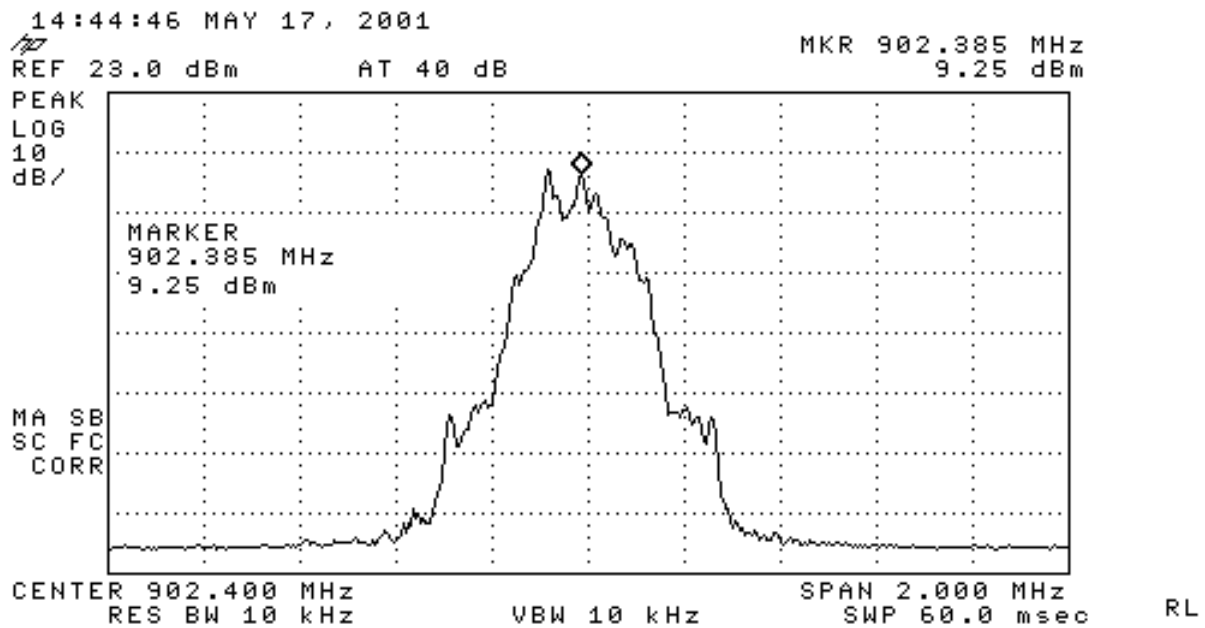
## ① TX\_62\_U505 PIN9



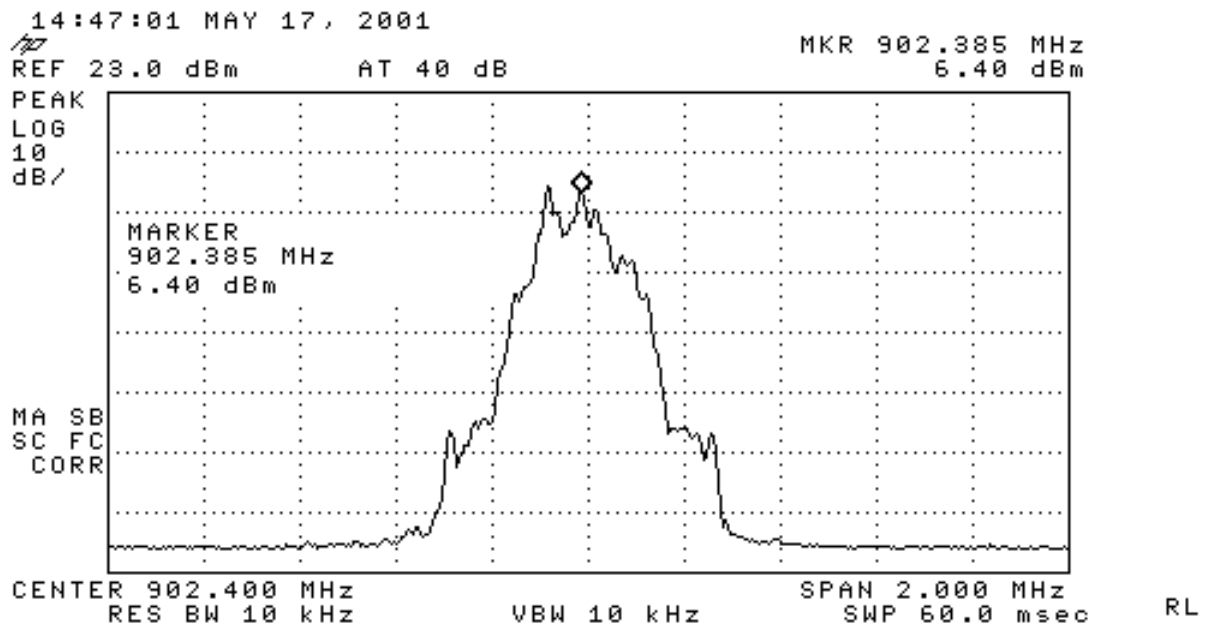
## ② TX\_62\_U505 PIN1



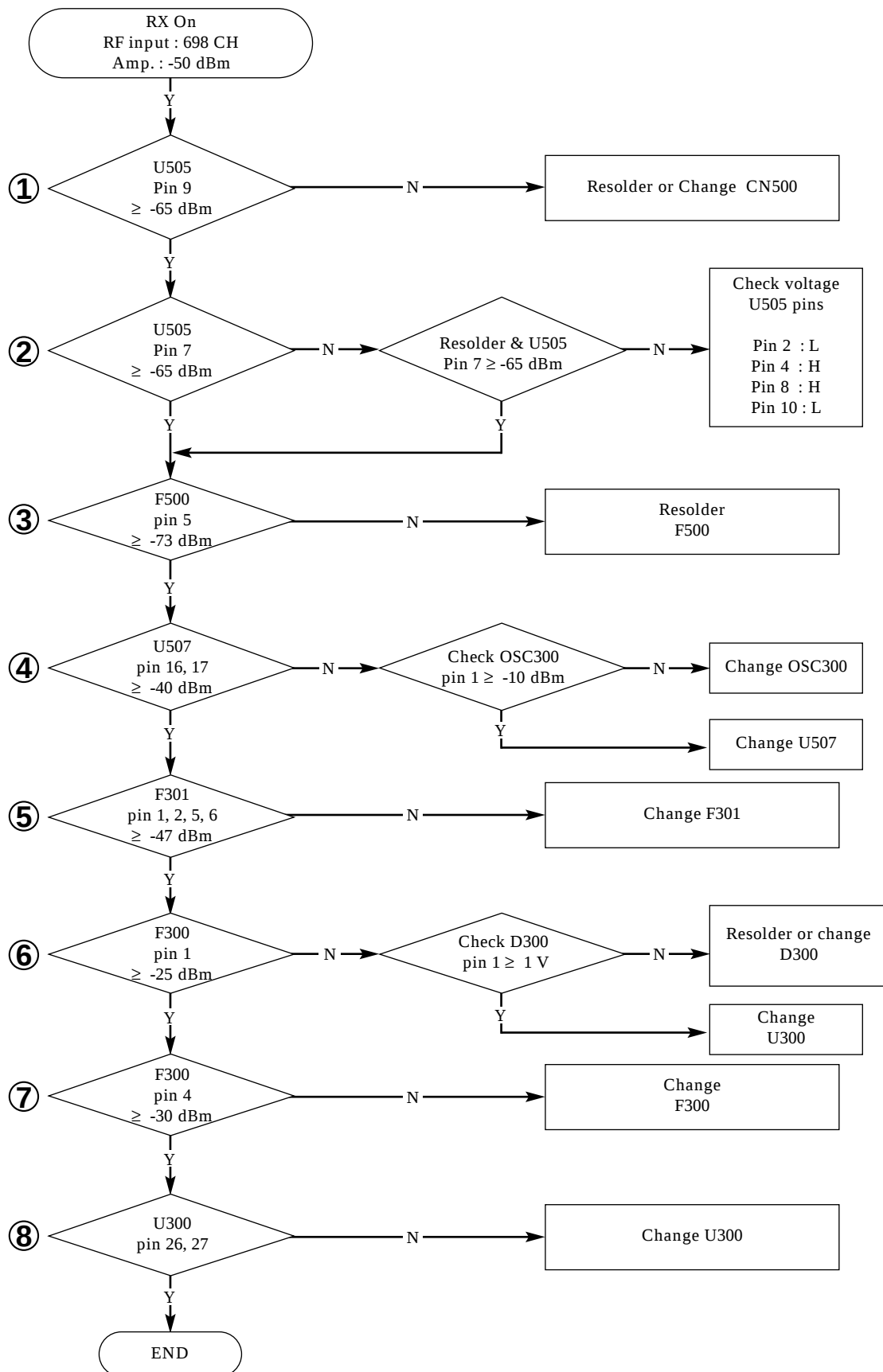
### ③ TX\_62\_lam1 PIN3



### ④ TX\_62\_U510 PIN4



## 5-13 SGH-A400 DCS Receiver



## Test Condition of RF Bench Test

**RF Bench Test**

File Graph\_Control DSP\_control Synthesizer Misc\_Param

---

**Synth Channels**

Rx/Tx:  Mon:

Freq: 1842.4 1747.4 936.0  
 LO: 1442.4 1389.4 1336.0

Rx IF = -400 MHz  
 Tx IF = -358 MHz

**MEW enables**

☒ Rx enable  
☐ Tx enable  
☐ Mon enable

**IFS Sequences**

☐ Normal  
☒ Cont. Rx  
☐ Cont. Tx

**XO Adjust**

Coarse:  Fine:

**IQ DC Offset**

I:  Q:

**IQ Balance**

**Burst Store data**

☐ Ones ☐ 1010... ☐ 0011...  
☐ Arbitrary ☒ Random  
☒ Insert Midamble ☐ Invert

MidAmble Position:

RequestWriteIRRsSync: 0x1c14  
 0x3333 0x3330 0x5BC7 0x48A8  
 0x794A 0x3A64 0x8844 0xBB07  
 0x313A 0x73AB 0x9626 0x3333

**Ramp Profile**

☐ Linear ☐ Andrew  
☐ Raised Cosine  
☒ RampLo980  
☐ RampHi980  
☐ Use values in box

GUI ramp...

**Profile**

Actual

0, 2 -384, 20 -253, 10 -109, 7 0, 6 12, 5 0, 4 -8, 2 -24, 2 -68, 2 -78, 2 -116, 2 -118, 2 -154, 2 -194, 2

**Graph Options**

☐ Freeze Graph  
☒ Auto Update  
☐ TestMode

Max Value:   
 Min Value:

**Tx Powerlevel**

DAC  
 -20 dB  
 bf80 Ricke

**Cheaters Haven**

Radio type:  
☐ 900 Only ☐ 900/1900  
☒ 900/1800 ☐ All Three

**RxAGC Setting**

☒ Rx0 ☒ Rx1 ☐ Rx2

IA Gain 0 dB  
 IA Gain +6 dB  
 IA Gain +12 dB  
 IA Gain +18 dB  
☒ IA Gain +24 dB

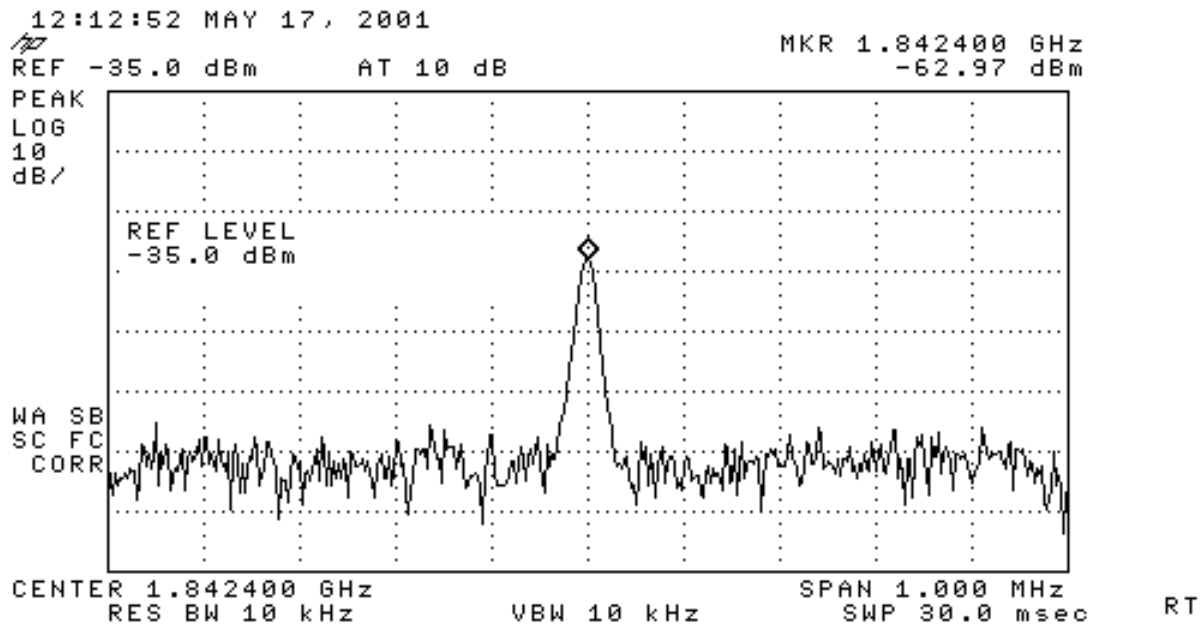
**MonAGC Setting**

☒ Rx0 ☒ Rx1 ☐ Rx2

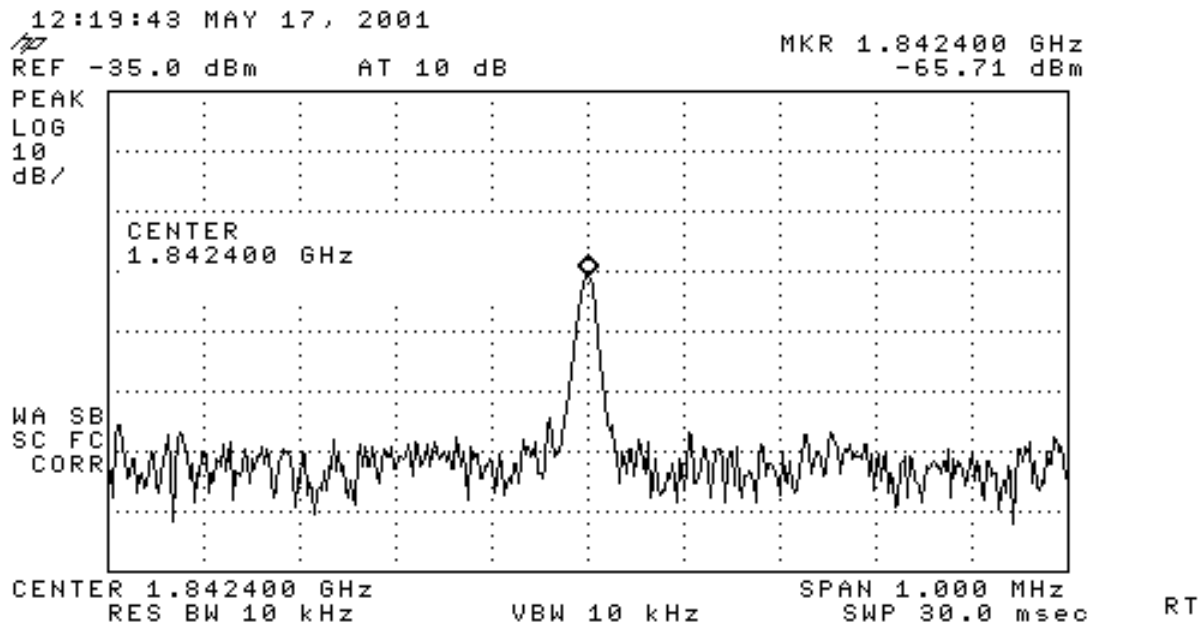
IA Gain 0 dB  
 IA Gain +6 dB  
 IA Gain +12 dB  
 IA Gain +18 dB  
☒ IA Gain +24 dB

Version 1999.02.24  
 (Dual Band Tolerant)  
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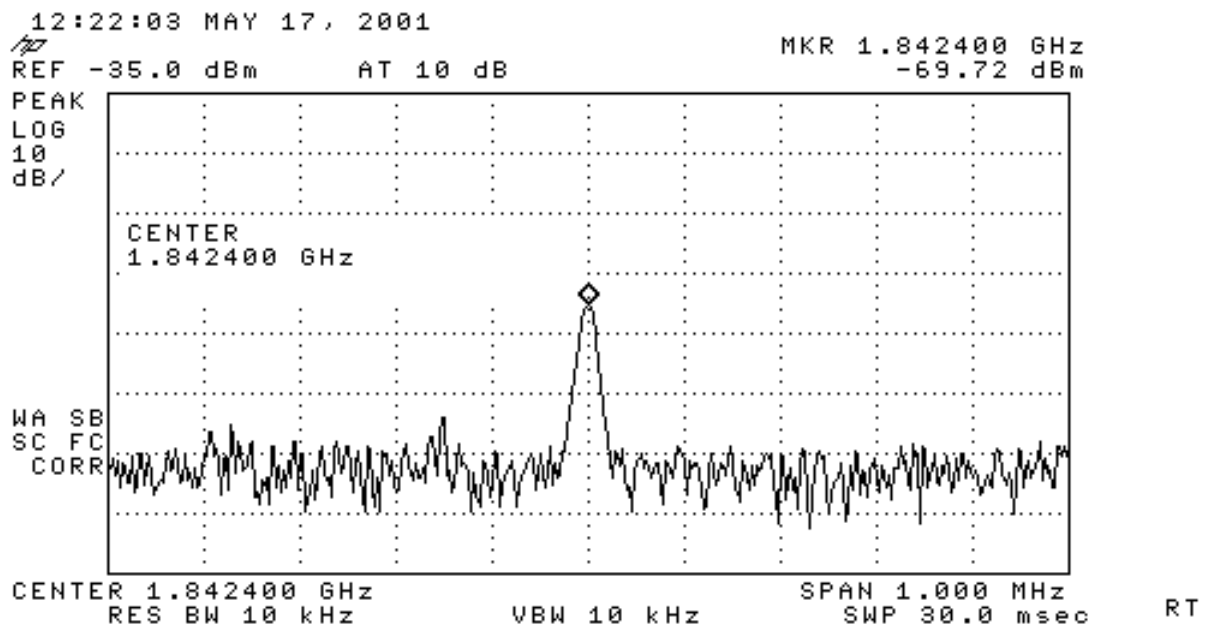
## ① RX\_698\_U505 PIN9



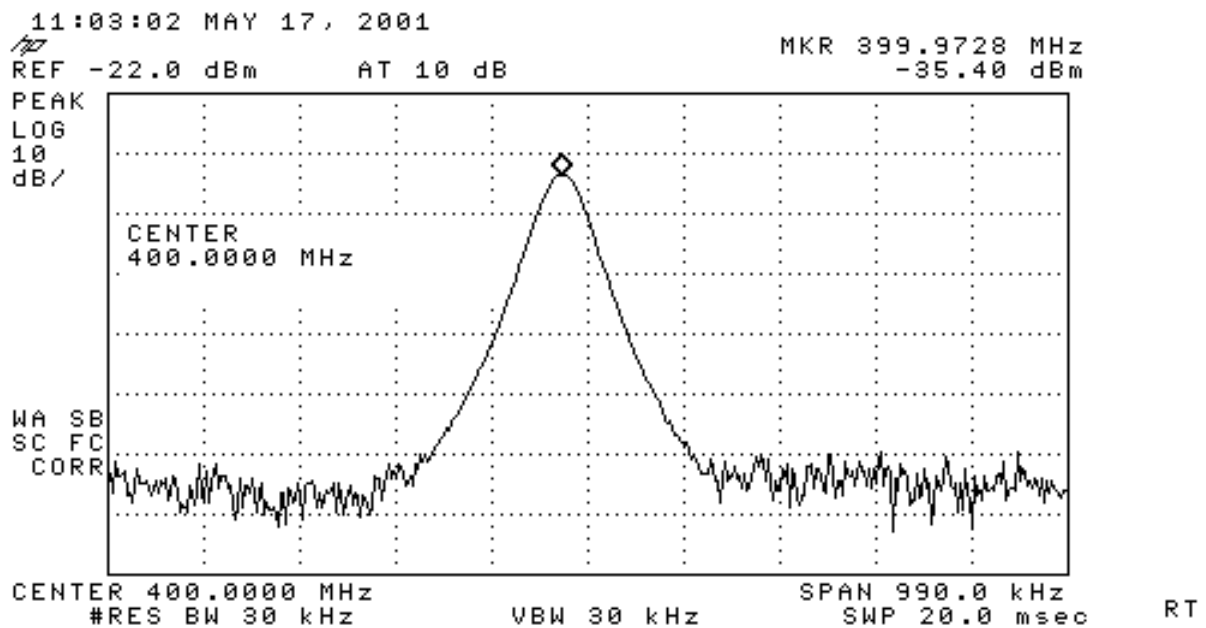
## ② RX\_698\_U505 PIN7



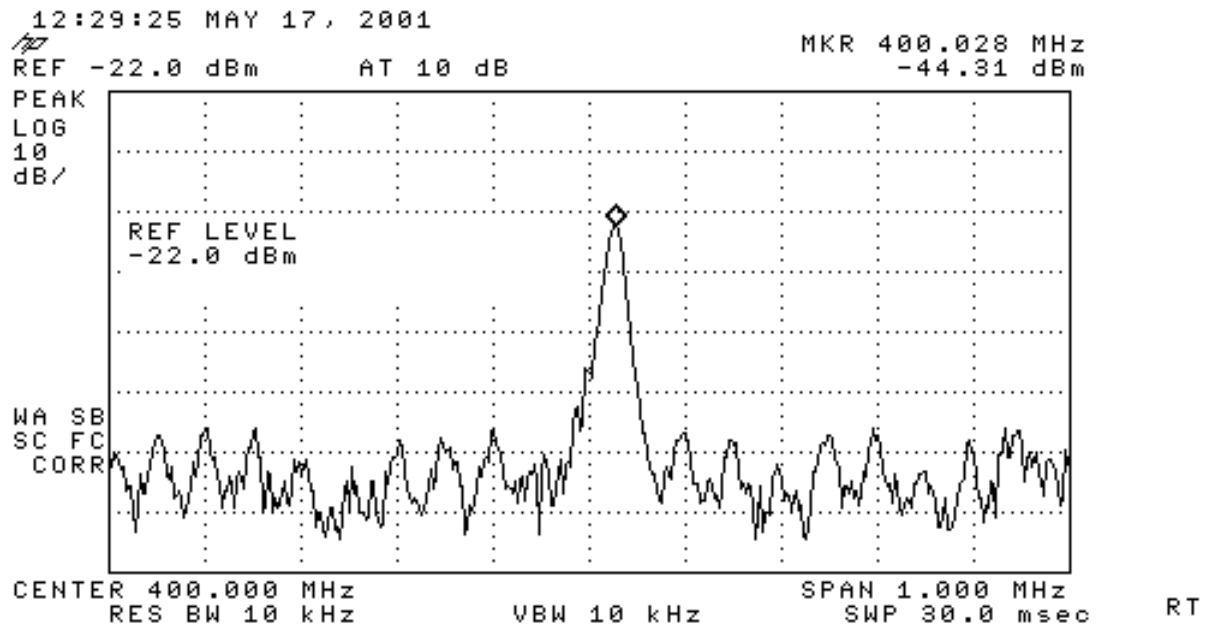
### ③ RX\_698\_F500 PIN5



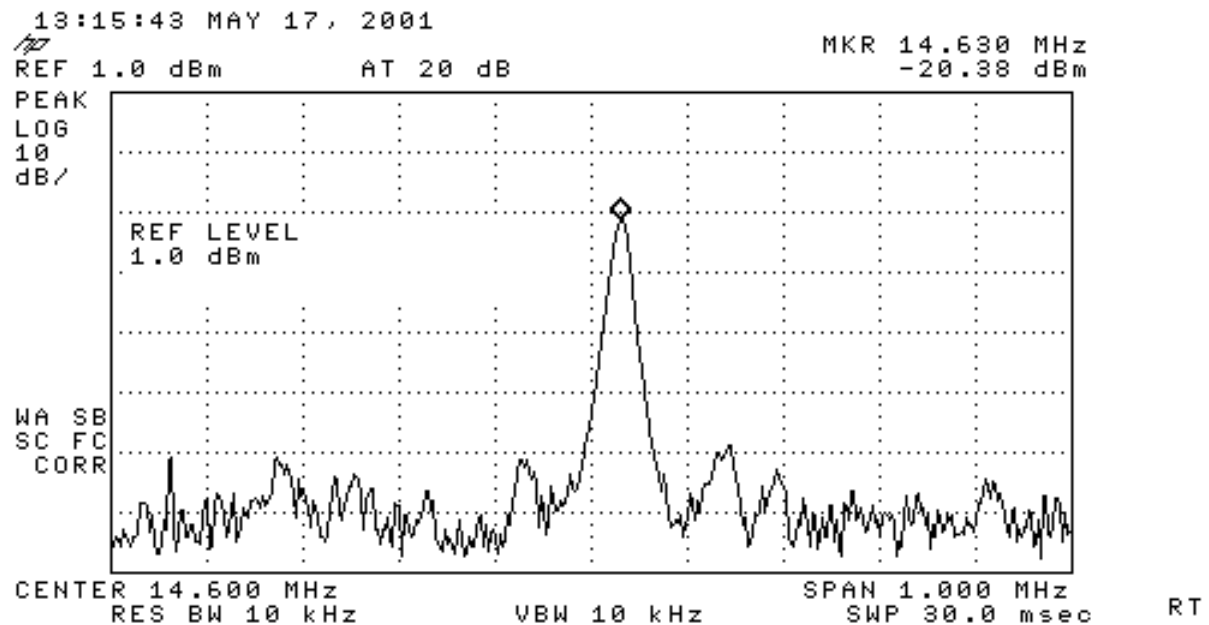
### ④ RX\_698\_U507 PIN16



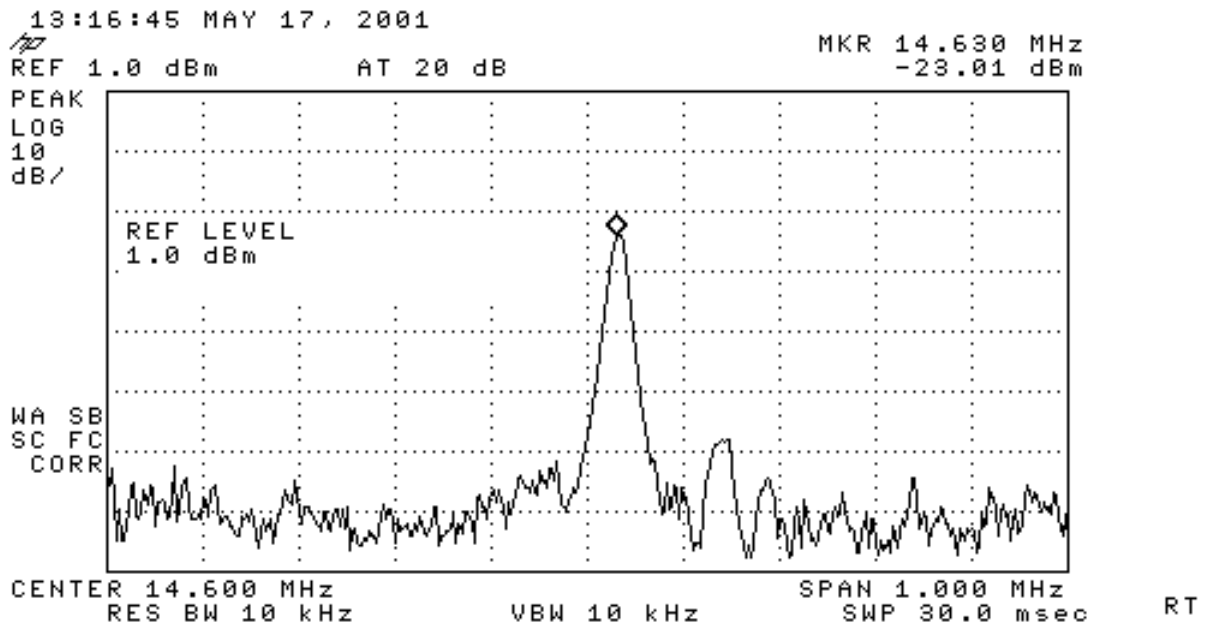
## ⑤ RX\_698\_F301 PIN1



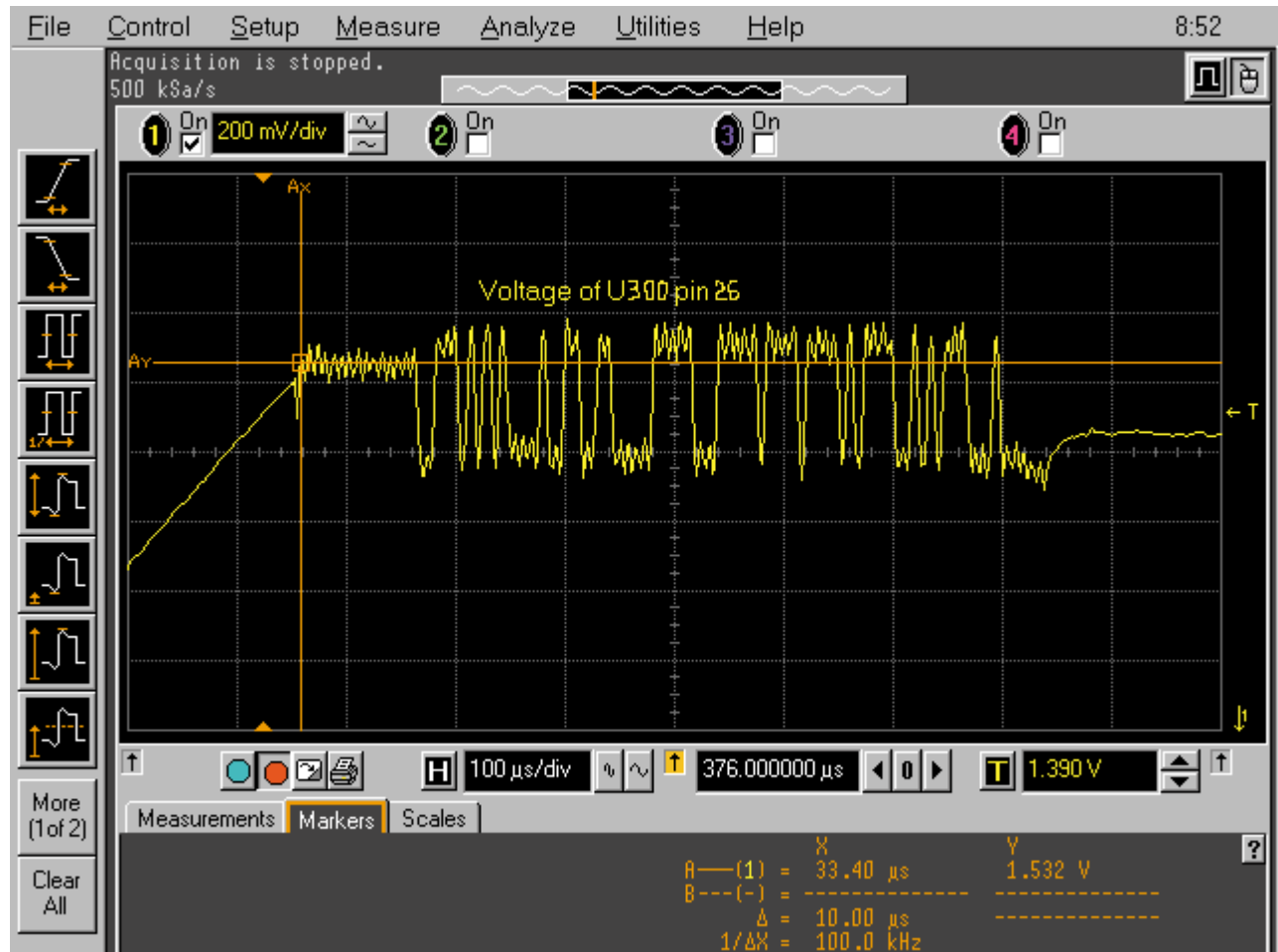
## ⑥ RX\_698\_F300 PIN1



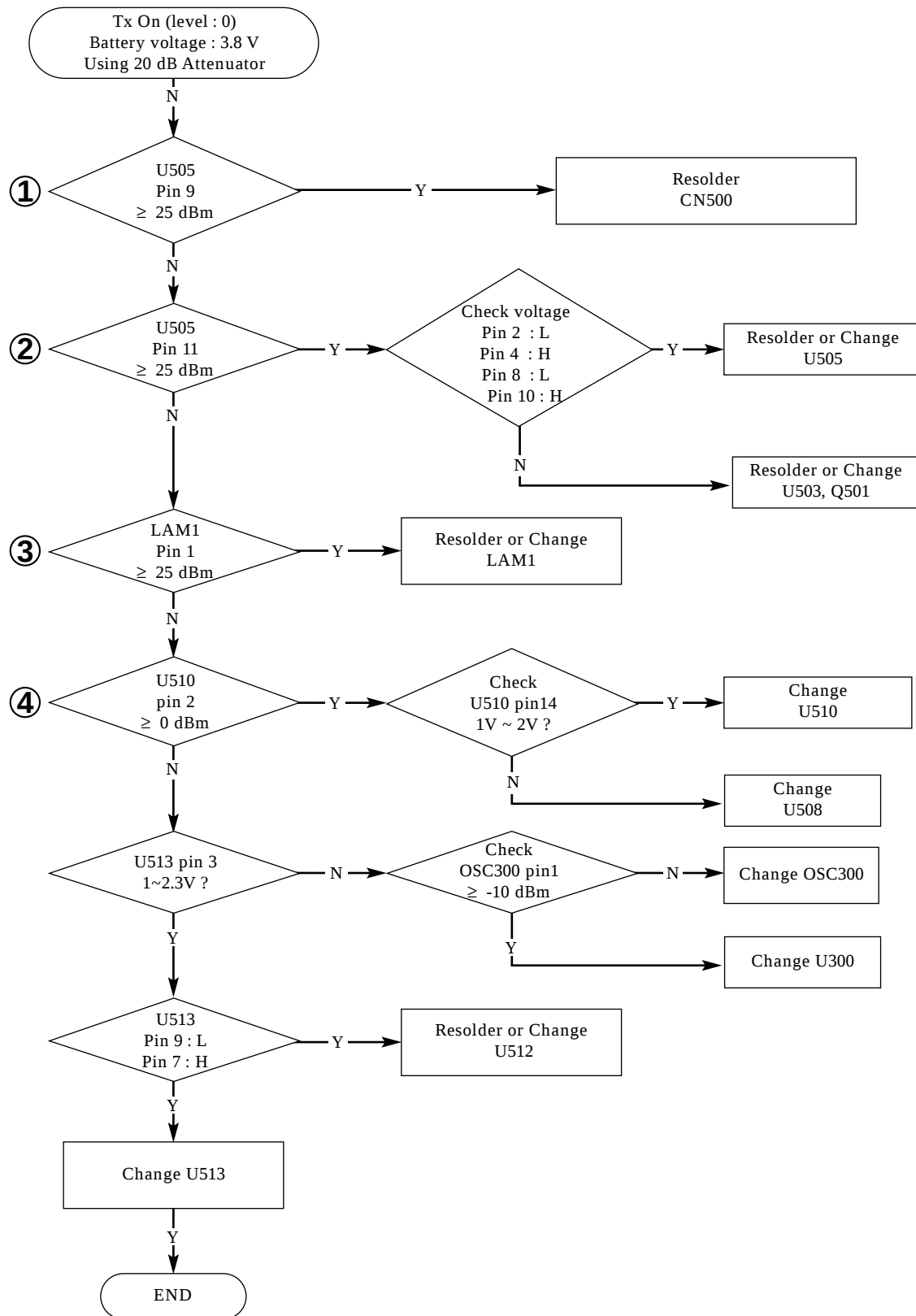
## ⑦ RX\_698\_F300 PIN4



## ⑧ U300\_ PIN26



## 5-14 SGH-A400 DCS Transmit



## Test Condition of RF Bench Test

**RF Bench Test**

File Graph\_Control DSP\_control Synthesizer Misc\_Param

---

**Synth Channels**

Rx/Tx: 698 Mon: 5

Freq: 1842.4 Tx: 1747.4 Mx: 936.0

LO: 1442.4 1389.4 1336.0

Rx IF = -400 MHz

Tx IF = -358 MHz

---

**MEW enables**

☒ Rx enable ☐ IFS Sequences

☒ Tx enable ☐ Normal

☒ Mon enable ☐ Cont. Rx ☒ Cont. Tx

---

**XO Adjust**

Coarse: 0 Fine: 0

---

**-IQ DC Offset**

I: 0 Q: 0

---

**-IQ Balance**

0

---

**Burst Store data**

☐ Ones ☐ 1010... ☐ 0011...

☐ Arbitrary ☒ Random

☒ Insert Midamble ☐ Invert

Midamble Position: 59

RequestWriteIMAsync: 0x1c14

0x3333 0x3330 0x1663 0xccc0

0xE4EA 0x0844 0xB844 0xBA18

0xB476 0x3B21 0x1410 0x3333

---

**Ramp Profile**

☐ Linear ☐ Andrew

☐ Raised Cosine

☒ RampLo980

☐ RampHi980

☐ Use values in box

GUI ramp...

---

**Profile**

Actual

|          |          |
|----------|----------|
| -100, 2  | -100, 2  |
| -484, 20 | -484, 20 |
| -353, 10 | -353, 10 |
| -209, 7  | -209, 7  |
| -100, 6  | -100, 6  |
| -88, 5   | -88, 5   |
| -100, 4  | -100, 4  |
| -108, 2  | -108, 2  |
| -124, 2  | -124, 2  |
| -168, 2  | -168, 2  |
| -178, 2  | -178, 2  |
| -216, 2  | -216, 2  |
| -218, 2  | -218, 2  |
| -254, 2  | -254, 2  |
| -294, 2  | -294, 2  |

---

**Graph Options**

☐ Freeze Graph

☒ Auto Update

☐ TestMode

Max Value: -30

Min Value: -130

---

**Tx Powerlevel**

-100 DAC

-46 dB

a680 Ricke

---

**Cheaters Haven**

Radio type:

☐ 900 Only ☐ 900/1900

☒ 900/1800 ☐ All Three

2300

---

**RxAGC Setting**

☒ Rx0 ☒ Rx1 ☐ Rx2

☐ IA Gain 0 dB

☐ IA Gain +6 dB

☐ IA Gain +12 dB

☐ IA Gain +18 dB

☒ IA Gain +24 dB

---

**MonAGC Setting**

☒ Rx0 ☒ Rx1 ☐ Rx2

☐ IA Gain 0 dB

☐ IA Gain +6 dB

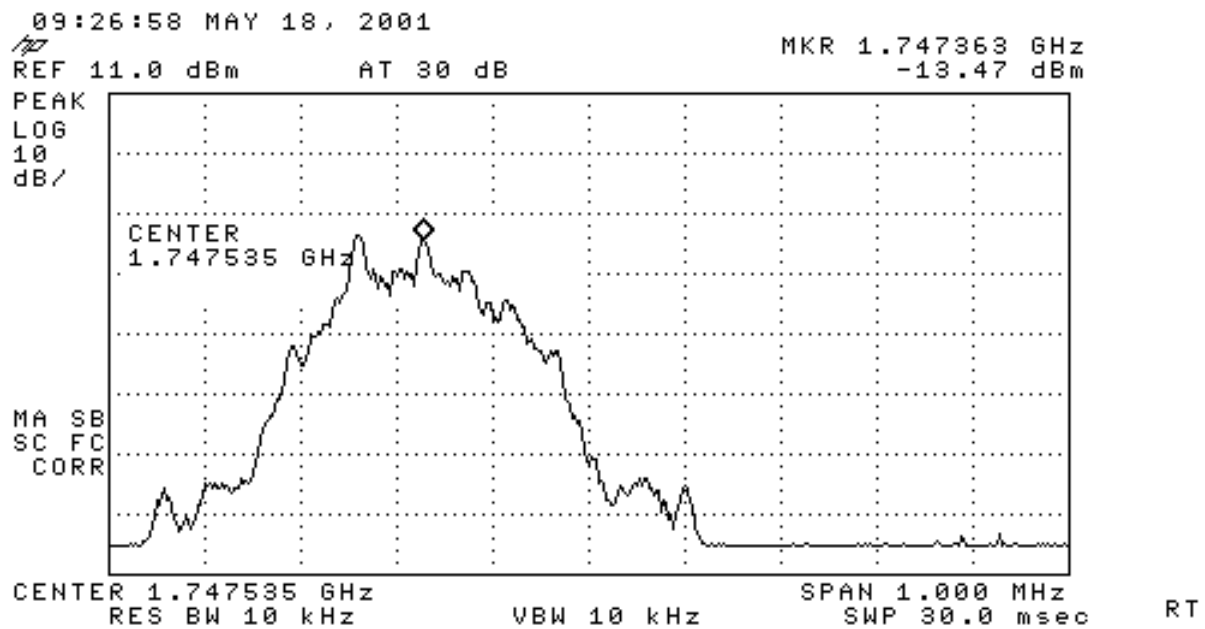
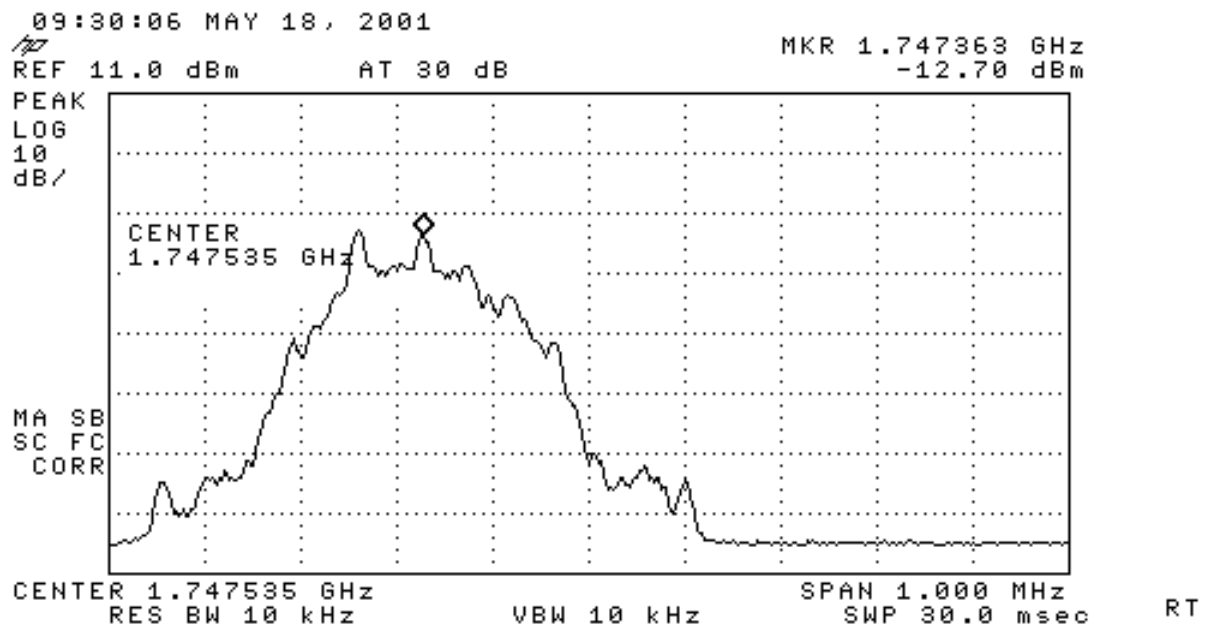
☐ IA Gain +12 dB

☐ IA Gain +18 dB

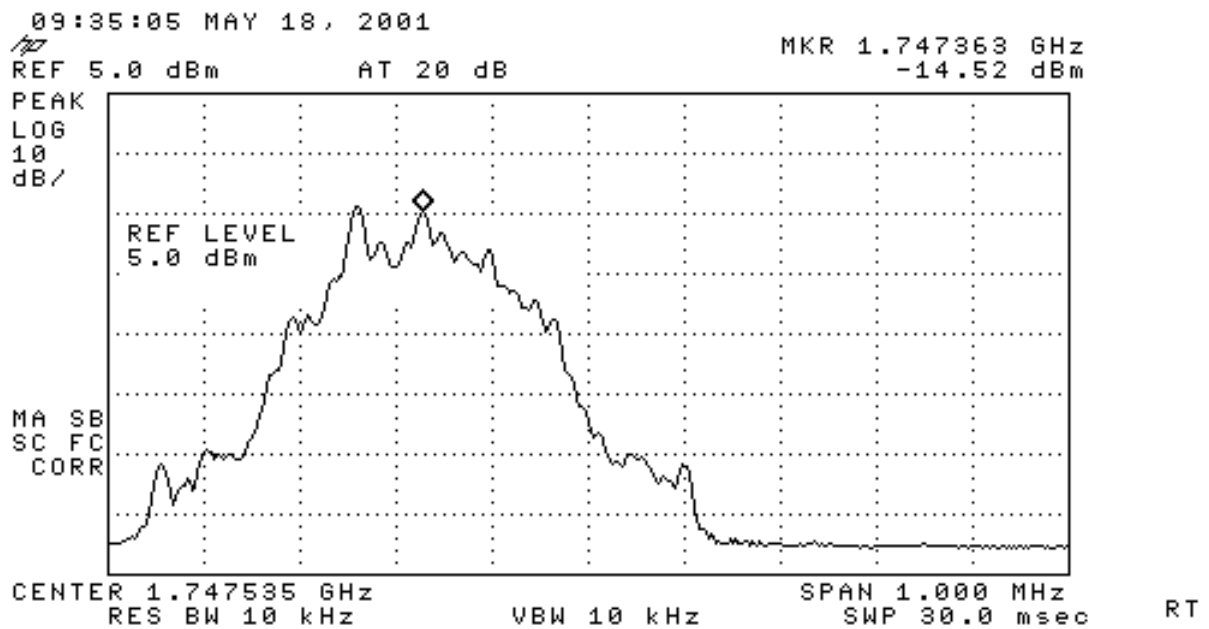
☒ IA Gain +24 dB

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**① TX\_698\_U505 PIN9****② TX\_698\_U505 PIN11**

### ③ TX\_698\_lam1 PIN1



### ④ TX\_698\_U510 PIN2



