



Appendix C

E-UTRA Band 5_CA



CONTENT

| | Page |
|--|-----------|
| 1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA..... | 3 |
| 2 PEAK-TO-AVERAGE RATIO | 9 |
| 2.1 FOR LTE | 10 |
| 2.1.1 Test Band = LTE band5..... | 10 |
| 3 MODULATION CHARACTERISTICS | 15 |
| 3.1 FOR LTE | 15 |
| 3.1.1 Test Band = LTE band5..... | 15 |
| 4 BANDWIDTH | 18 |
| 4.1 FOR LTE | 19 |
| 4.1.1 Test Band = LTE band5..... | 19 |
| 5 BAND EDGES COMPLIANCE | 25 |
| 5.1 FOR LTE | 25 |
| 5.1.1 Test Band = LTE band5..... | 25 |
| 6 SPURIOUS EMISSION AT ANTENNA TERMINAL..... | 62 |
| 6.1 FOR LTE | 62 |
| 7 FIELD STRENGTH OF SPURIOUS RADIATION | 67 |
| 7.1 FOR LTE | 67 |
| 7.1.1 Test Band = LTE band5..... | 67 |
| 8 FREQUENCY STABILITY | 69 |
| 8.1 FREQUENCY ERROR VS. VOLTAGE | 69 |
| 8.2 FREQUENCY ERROR VS. TEMPERATURE | 70 |



1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 5

| Test Band(LTE) | Test Bandwidth | Test channel | Test Mode | PCC RB | SCC RB | Measured (dBm) | ERP (dBm) | limit (dBm) | Verdict |
|----------------|----------------|--------------|-----------|--------|--------|----------------|-----------|-------------|---------|
| BAND5 | 5+10M | LCH | LTE/TM1 | P_1@0 | S_0@0 | 24.09 | 21.69 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 24.08 | 21.68 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 23.05 | 20.65 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 22.02 | 19.62 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.37 | 20.97 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 23.12 | 20.72 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 21.12 | 18.72 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 19.92 | 17.52 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.23 | 19.83 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 22.14 | 19.74 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 21.09 | 18.69 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 20.98 | 18.58 | 38.45 | PASS |
| | | MCH | LTE/TM1 | P_1@0 | S_0@0 | 24.03 | 21.63 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 24.05 | 21.65 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 23.03 | 20.63 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 21.93 | 19.53 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23 | 20.6 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 24.02 | 21.62 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 24.01 | 21.61 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 19.89 | 17.49 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.18 | 19.78 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 22.01 | 19.61 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 20.95 | 18.55 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 20.88 | 18.48 | 38.45 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM1701001122301

Page: 4 of 72

| | | | | | | | | | |
|-------|-------|-----|---------|--------|--------|-------|-------|-------|------|
| BAND5 | 5+10M | HCH | LTE/TM1 | P_1@0 | S_0@0 | 24.15 | 21.75 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 23.9 | 21.5 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 22.81 | 20.41 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 21.8 | 19.4 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 24.46 | 22.06 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 23.91 | 21.51 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 20.81 | 18.41 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 19.76 | 17.36 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 23.83 | 21.43 | 38.45 | PASS |
| | | | | P_8@0 | S_0@0 | 23.97 | 21.57 | 38.45 | PASS |
| | | | | P_25@0 | S_0@0 | 20.81 | 18.41 | 38.45 | PASS |
| | | | | P_25@0 | S_50@0 | 20.77 | 18.37 | 38.45 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM1701001122301

Page: 5 of 72

| Test Band(LTE) | Test Bandwidth | Test channel | Test Mode | PCC RB | SCC RB | Measured (dBm) | ERP (dBm) | limit (dBm) | Verdict |
|----------------|----------------|--------------|-----------|--------|--------|----------------|-----------|-------------|---------|
| BAND5 | 10+5M | LCH | LTE/TM1 | P_1@0 | S_0@0 | 24.22 | 21.82 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 24.27 | 21.87 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 22.05 | 19.65 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 21.95 | 19.55 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.28 | 20.88 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 21.18 | 18.78 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 19.99 | 17.59 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 19.88 | 17.48 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.47 | 20.07 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 21.19 | 18.79 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.15 | 18.75 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 20.91 | 18.51 | 38.45 | PASS |
| | | MCH | LTE/TM1 | P_1@0 | S_0@0 | 24.21 | 21.81 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 23.13 | 20.73 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.91 | 19.51 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 21.84 | 19.44 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.05 | 20.65 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 21.25 | 18.85 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 19.86 | 17.46 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 19.82 | 17.42 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.38 | 19.98 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 21.13 | 18.73 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 20.89 | 18.49 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 20.83 | 18.43 | 38.45 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM1701001122301

Page: 6 of 72

| | | | | | | | | | |
|-------|-------|-----|---------|--------|--------|-------|-------|-------|------|
| BAND5 | 10+5M | HCH | LTE/TM1 | P_1@0 | S_0@0 | 24.04 | 21.64 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 23.02 | 20.62 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.91 | 19.51 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 21.84 | 19.44 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.26 | 20.86 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 20.99 | 18.59 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 19.83 | 17.43 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 19.78 | 17.38 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.02 | 19.62 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 21.06 | 18.66 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 20.91 | 18.51 | 38.45 | PASS |
| | | | | P_50@0 | S_25@0 | 20.87 | 18.47 | 38.45 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM1701001122301

Page: 7 of 72

| Test Band(LTE) | Test Bandwidth | Test channel | Test Mode | PCC RB | SCC RB | Measured (dBm) | ERP (dBm) | limit (dBm) | Verdict |
|----------------|----------------|--------------|-----------|--------|--------|----------------|-----------|-------------|---------|
| BAND5 | 10+10M | LCH | LTE/TM1 | P_1@0 | S_0@0 | 24.12 | 21.72 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 24.22 | 21.82 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 23.11 | 20.71 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 21.91 | 19.51 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.59 | 21.19 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 23.24 | 20.84 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 20.96 | 18.56 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 19.84 | 17.44 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.33 | 19.93 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 22.29 | 19.89 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.03 | 18.63 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 20.91 | 18.51 | 38.45 | PASS |
| | | MCH | LTE/TM1 | P_1@0 | S_0@0 | 24.31 | 21.91 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 24.17 | 21.77 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 23.02 | 20.62 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 21.89 | 19.49 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.18 | 20.78 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 23.18 | 20.78 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 20.97 | 18.57 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 19.86 | 17.46 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.39 | 19.99 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 22.26 | 19.86 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.01 | 18.61 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 20.82 | 18.42 | 38.45 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM1701001122301

Page: 8 of 72

| | | | | | | | | | |
|-------|--------|-----|---------|--------|--------|-------|-------|-------|------|
| BAND5 | 10+10M | HCH | LTE/TM1 | P_1@0 | S_0@0 | 24.11 | 21.71 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 24.18 | 21.78 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 23.04 | 20.64 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 21.84 | 19.44 | 38.45 | PASS |
| | | | LTE/TM2 | P_1@0 | S_0@0 | 23.58 | 21.18 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 23.17 | 20.77 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 20.92 | 18.52 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 19.84 | 17.44 | 38.45 | PASS |
| | | | LTE/TM3 | P_1@0 | S_0@0 | 22.15 | 19.75 | 38.45 | PASS |
| | | | | P_12@0 | S_0@0 | 22.16 | 19.76 | 38.45 | PASS |
| | | | | P_50@0 | S_0@0 | 21.04 | 18.64 | 38.45 | PASS |
| | | | | P_50@0 | S_50@0 | 20.91 | 18.51 | 38.45 | PASS |

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



2 Peak-to-Average Ratio

Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|------------|--------------|--------------|------------|---------|
| Band 5 | TM1/5+10M | MCH | 6.03 | 13 | PASS |
| | TM2/5+10M | MCH | 6.64 | 13 | PASS |
| | TM3/5+10M | MCH | 6.61 | 13 | PASS |
| | TM1/10+5M | MCH | 6.00 | 13 | PASS |
| | TM2/10+5M | MCH | 6.52 | 13 | PASS |
| | TM3/10+5M | MCH | 6.46 | 13 | PASS |
| | TM1/10+10M | MCH | 6.29 | 13 | PASS |
| | TM2/10+10M | MCH | 6.87 | 13 | PASS |
| | TM3/10+10M | MCH | 6.78 | 13 | PASS |



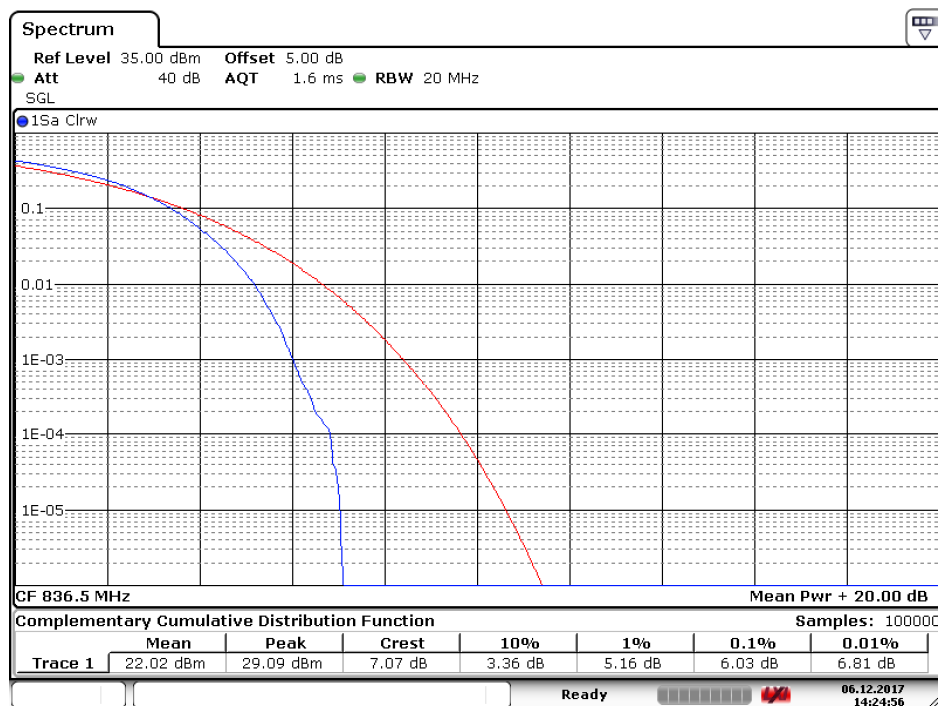
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band5

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=5+10MHz

2.1.1.1.1 Test Channel = MCH

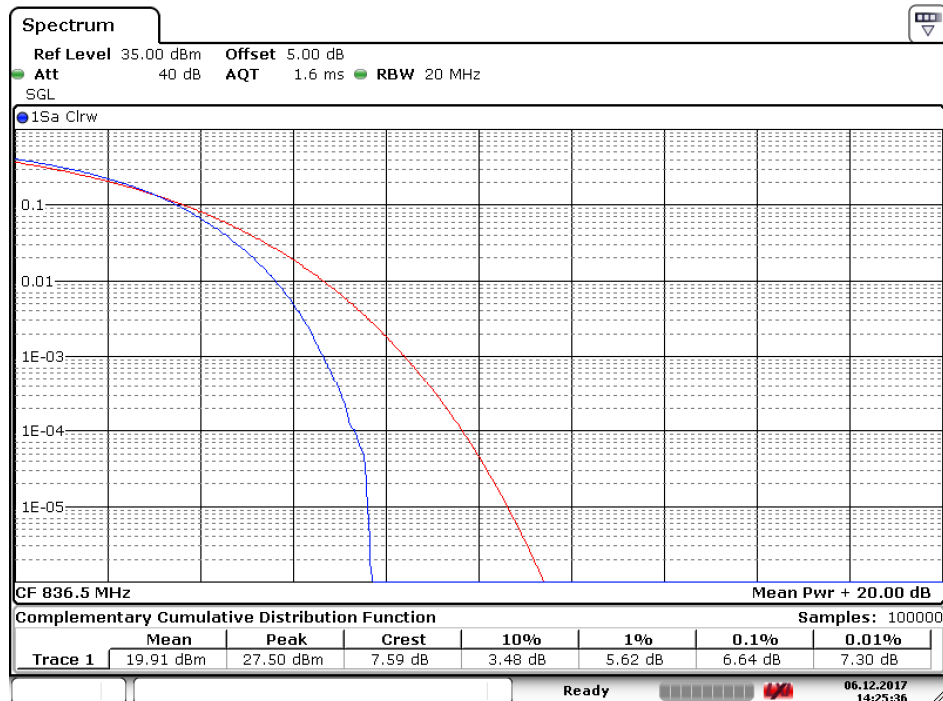


Date: 6.DEC.2017 14:24:56



2.1.1.2 Test Mode = LTE/TM2.Bandwidth=5+10MHz

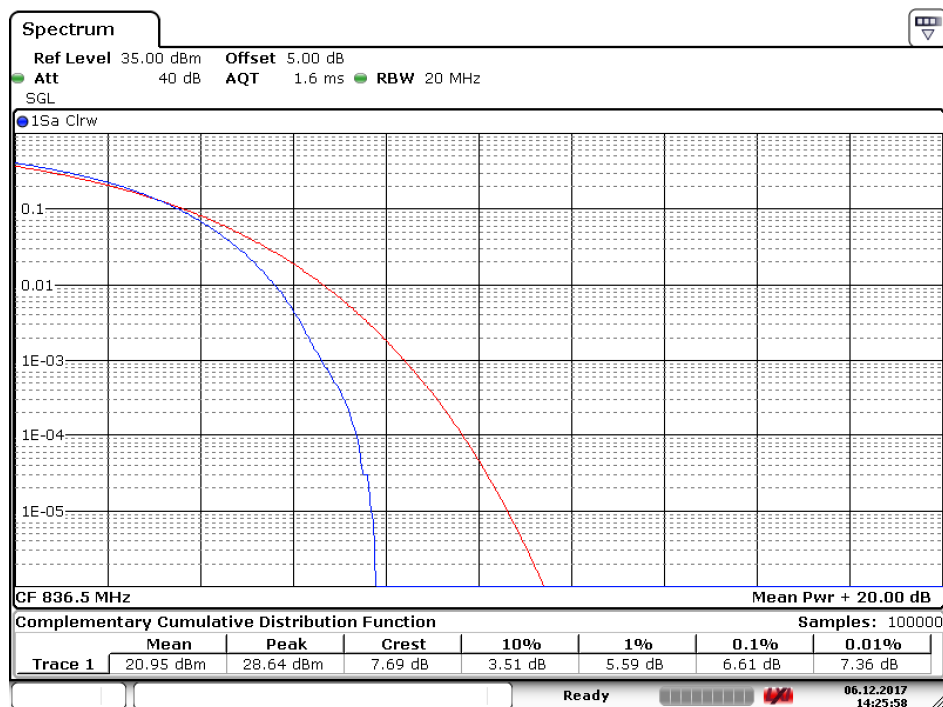
2.1.1.2.1 Test Channel = MCH



Date: 6.DEC.2017 14:25:36

2.1.1.3 Test Mode = LTE/TM3.Bandwidth=5+10MHz

2.1.1.3.1 Test Channel = MCH

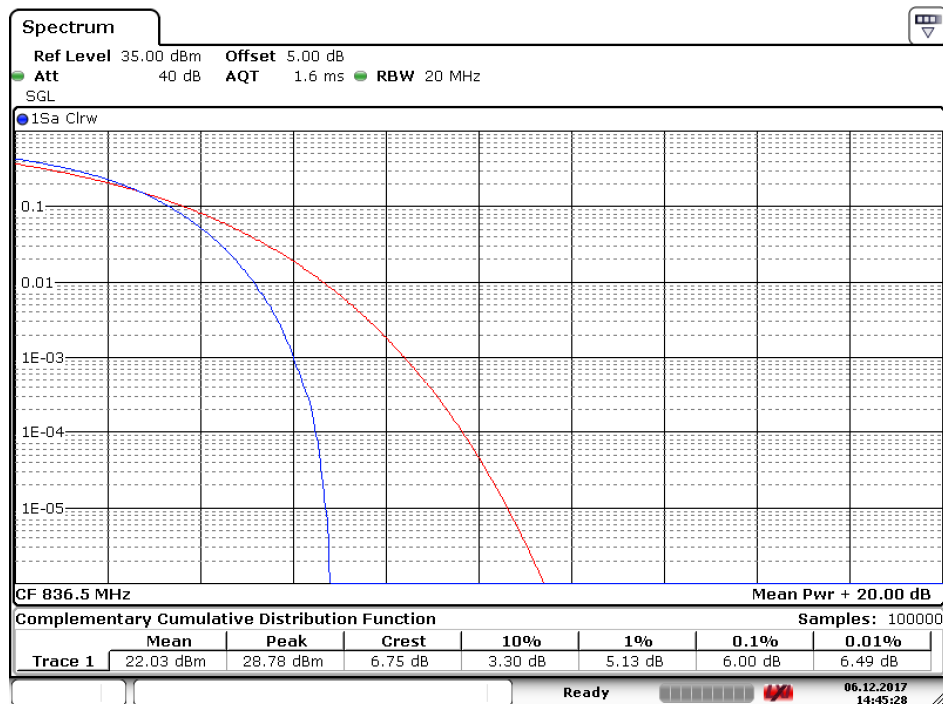


Date: 6.DEC.2017 14:25:59



2.1.1.4 Test Mode = LTE/TM1.Bandwidth=10+5MHz

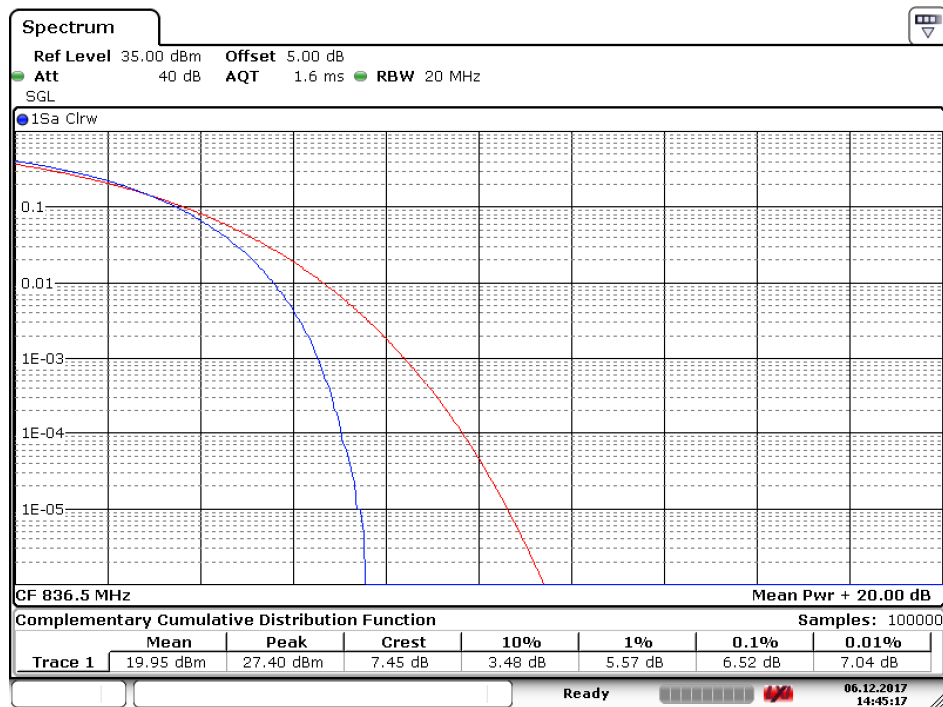
2.1.1.4.1 Test Channel = MCH



Date: 6.DEC.2017 14:45:29

2.1.1.5 Test Mode = LTE/TM2.Bandwidth=10+5MHz

2.1.1.5.1 Test Channel = MCH

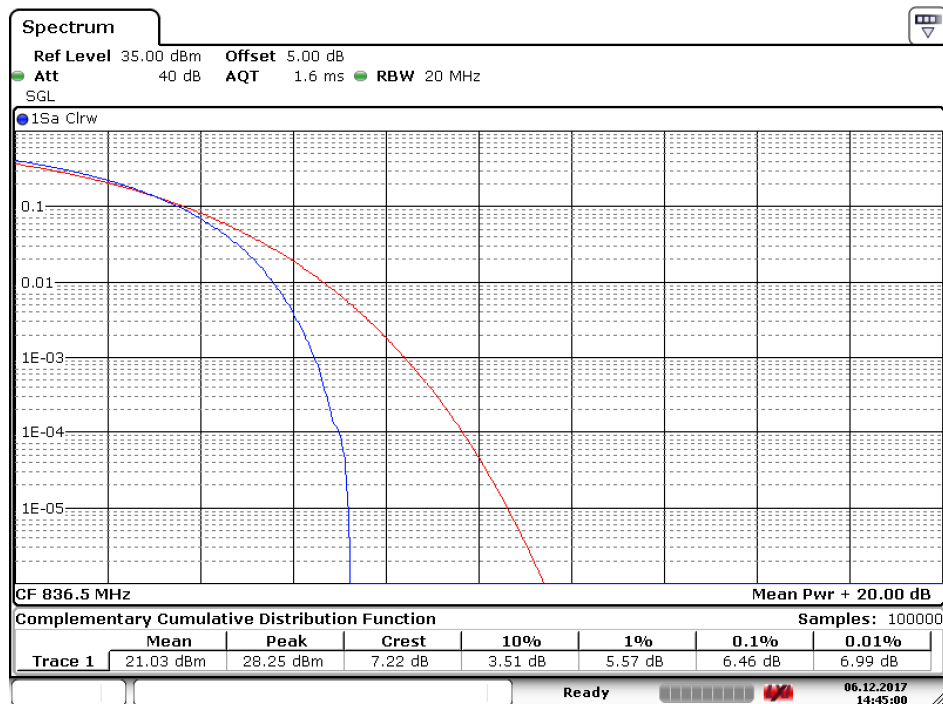


Date: 6.DEC.2017 14:45:17



2.1.1.6 Test Mode = LTE/TM3.Bandwidth=10+5MHz

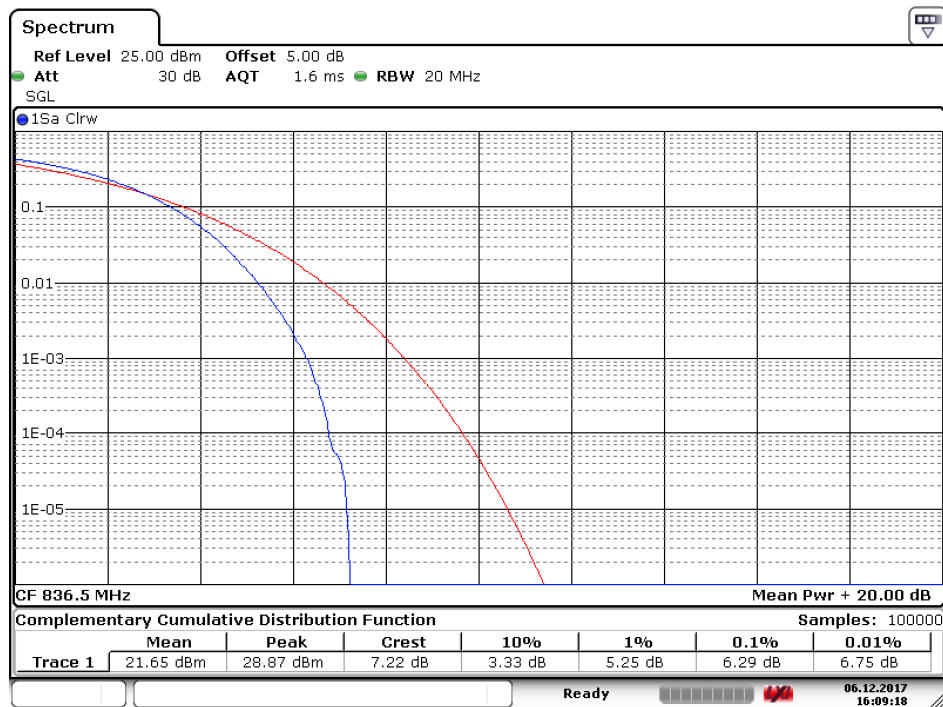
2.1.1.6.1 Test Channel = MCH



Date: 6.DEC.2017 14:45:00

2.1.1.7 Test Mode = LTE/TM1.Bandwidth=10+10MHz

2.1.1.7.1 Test Channel = MCH

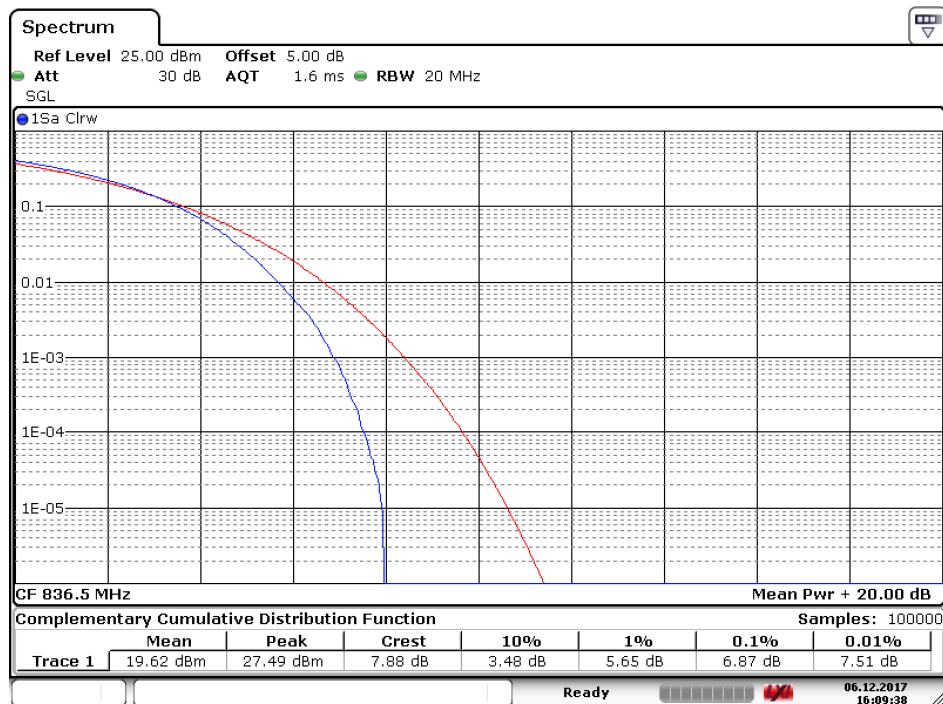


Date: 6.DEC.2017 16:09:18



2.1.1.8 Test Mode = LTE/TM2.Bandwidth=10+10MHz

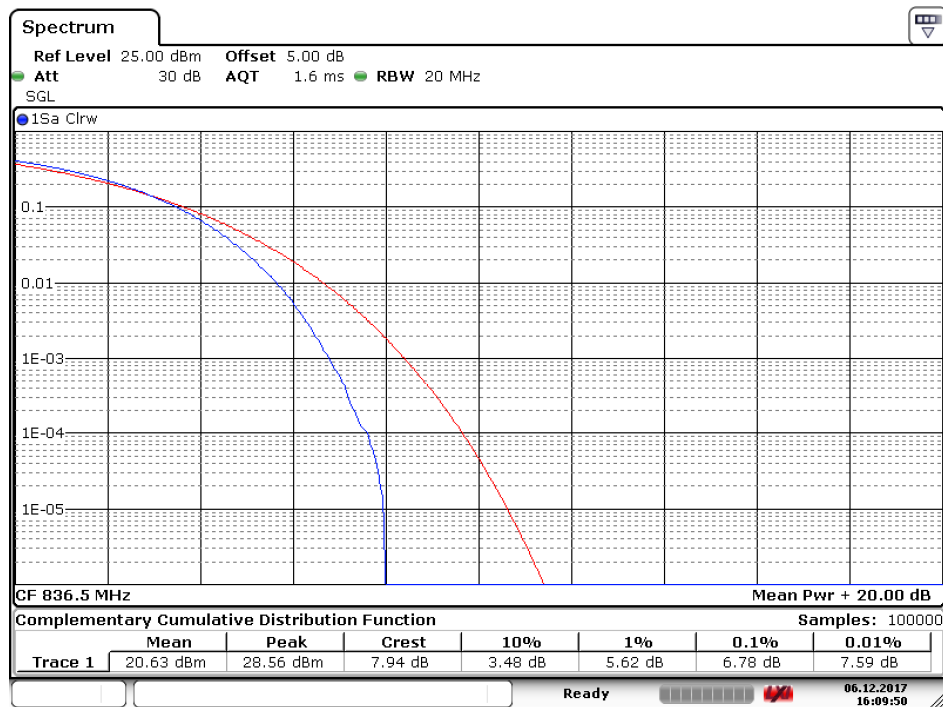
2.1.1.8.1 Test Channel = MCH



Date: 6.DEC.2017 16:09:39

2.1.1.9 Test Mode = LTE/TM3.Bandwidth=10+10MHz

2.1.1.9.1 Test Channel = MCH



Date: 6.DEC.2017 16:09:51



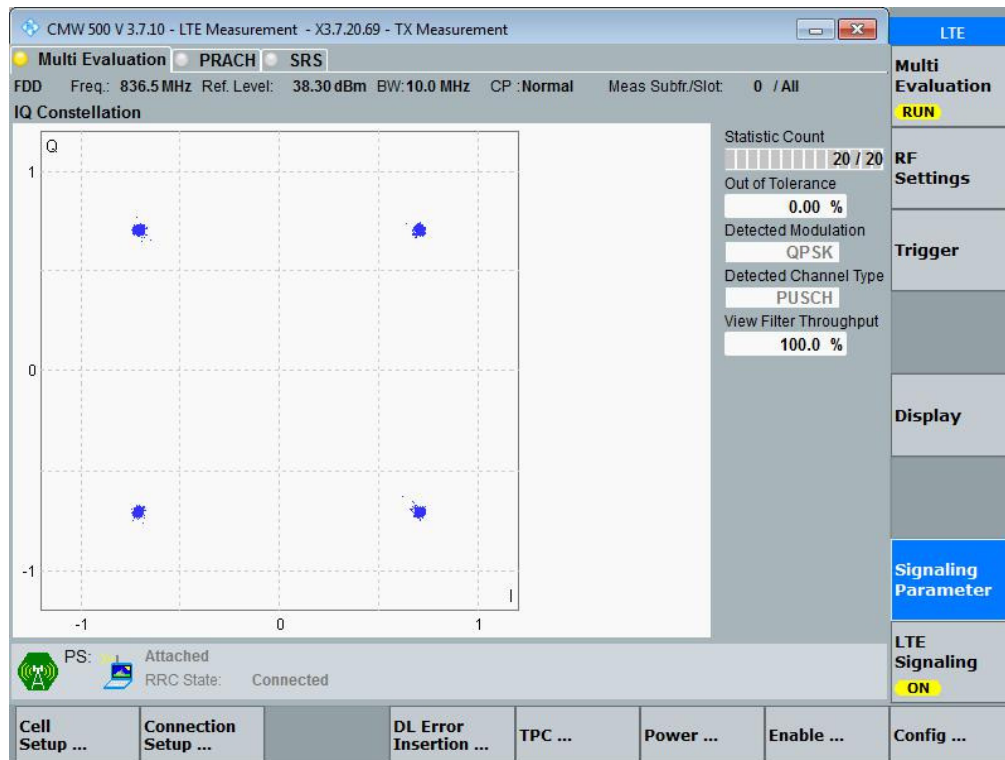
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band5

3.1.1.1 Test Mode = LTE /TM1 10MHz + 10MHz

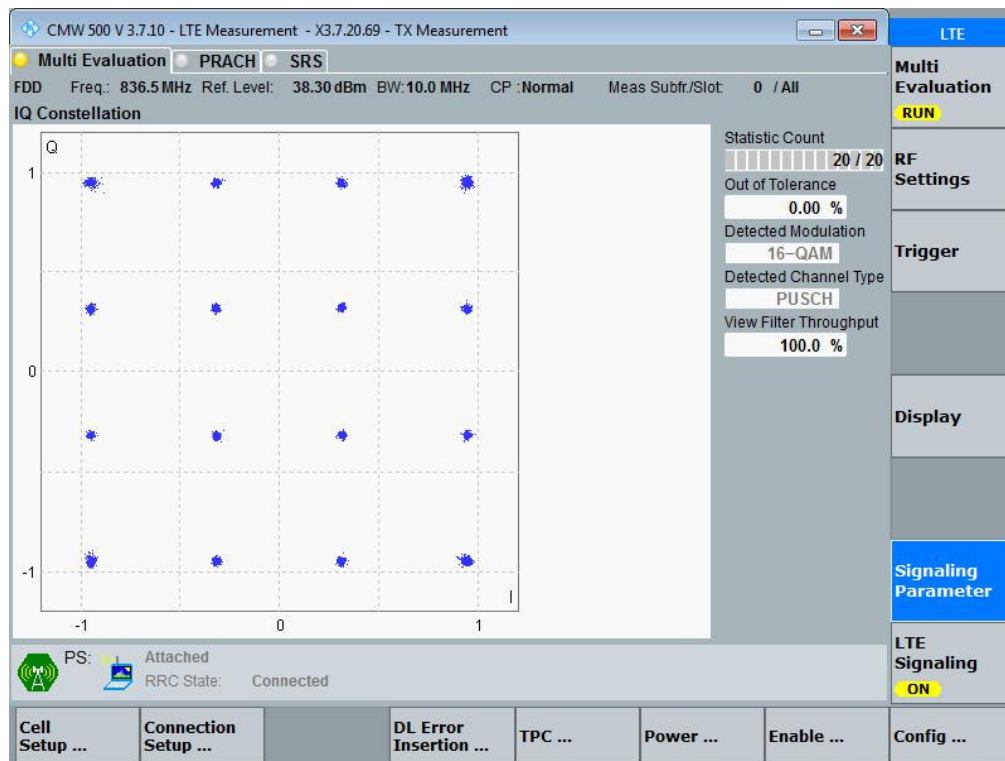
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM2 10MHz + 10MHz

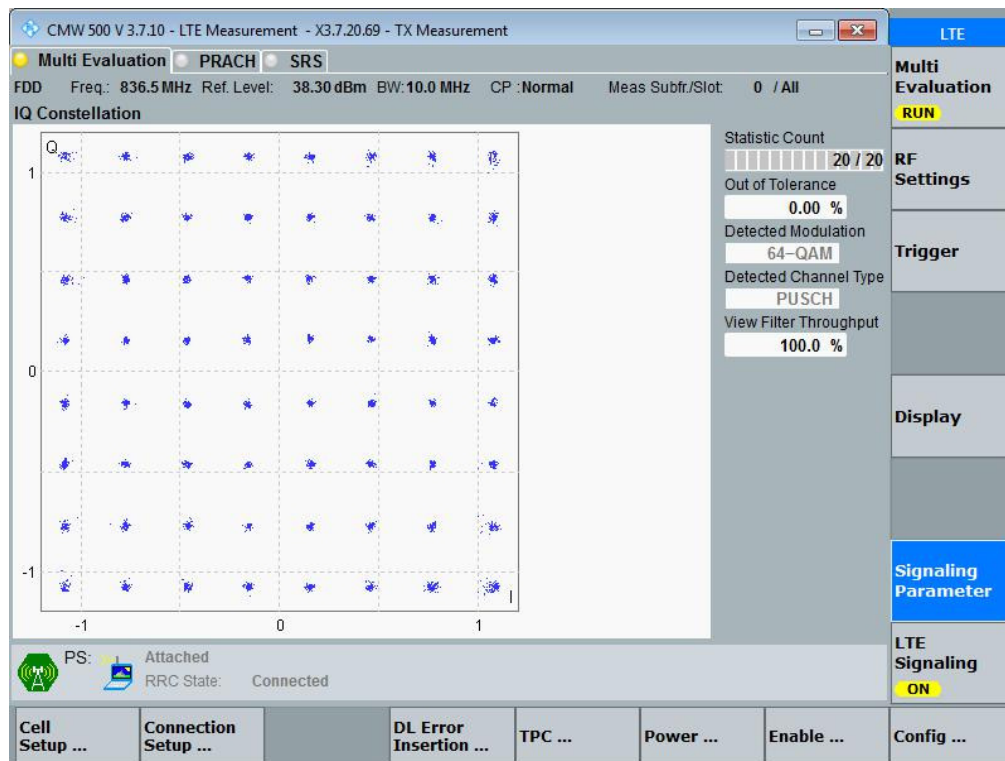
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM3 10MHz + 10MHz

3.1.1.3.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|-----------|--------------|--------------|--------------------------|--------------------------|---------|
| Band 5 | TM1/5+10MHz | MCH | 13.88 | 14.81 | PASS |
| | TM2/5+10MHz | MCH | 13.85 | 14.75 | PASS |
| | TM3/5+10MHz | MCH | 13.85 | 14.81 | PASS |
| | TM1/10+5MHz | MCH | 13.85 | 14.78 | PASS |
| | TM2/10+5MHz | MCH | 13.85 | 14.75 | PASS |
| | TM3/10+5MHz | MCH | 13.85 | 14.81 | PASS |
| | TM1/10+10MHz | MCH | 18.74 | 19.94 | PASS |
| | TM2/10+10MHz | MCH | 18.74 | 19.90 | PASS |
| | TM3/10+10MHz | MCH | 18.70 | 19.82 | PASS |



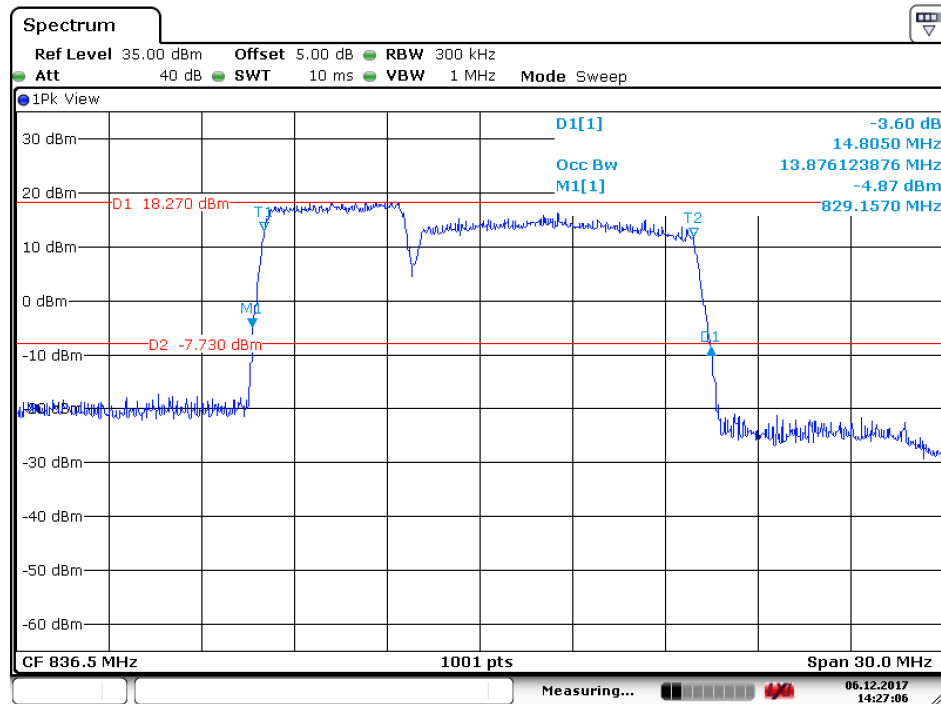
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band5

4.1.1.1 Test Mode = LTE/TM1 5+10MHz

4.1.1.1.1 Test Channel = MCH

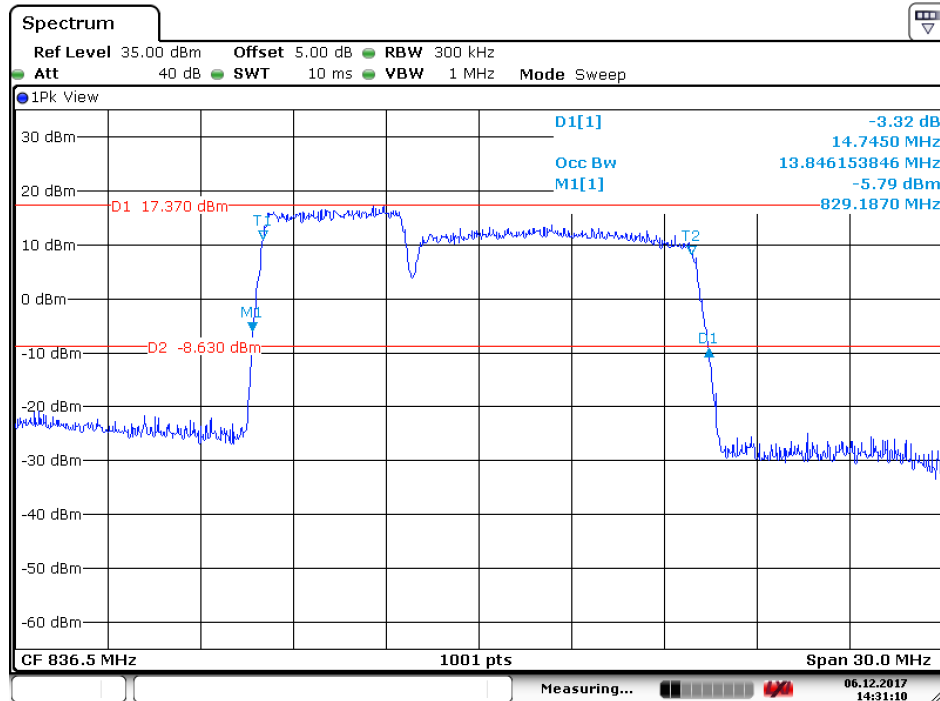


Date: 6.DEC.2017 14:27:07



4.1.1.2 Test Mode = LTE/TM2 5+10MHz

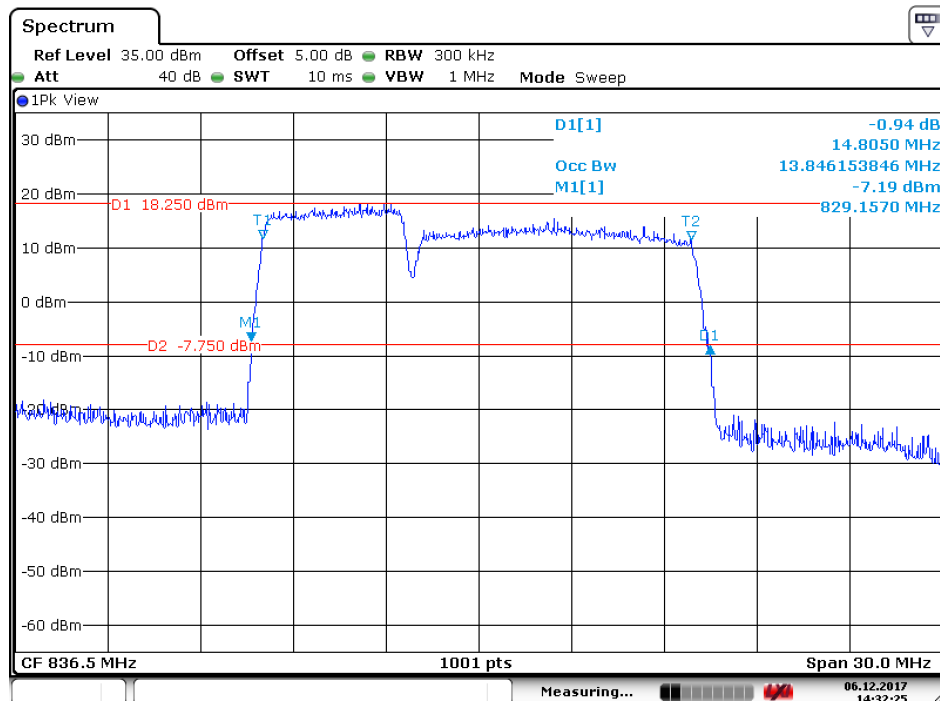
4.1.1.2.1 Test Channel = MCH



Date: 6.DEC.2017 14:31:10



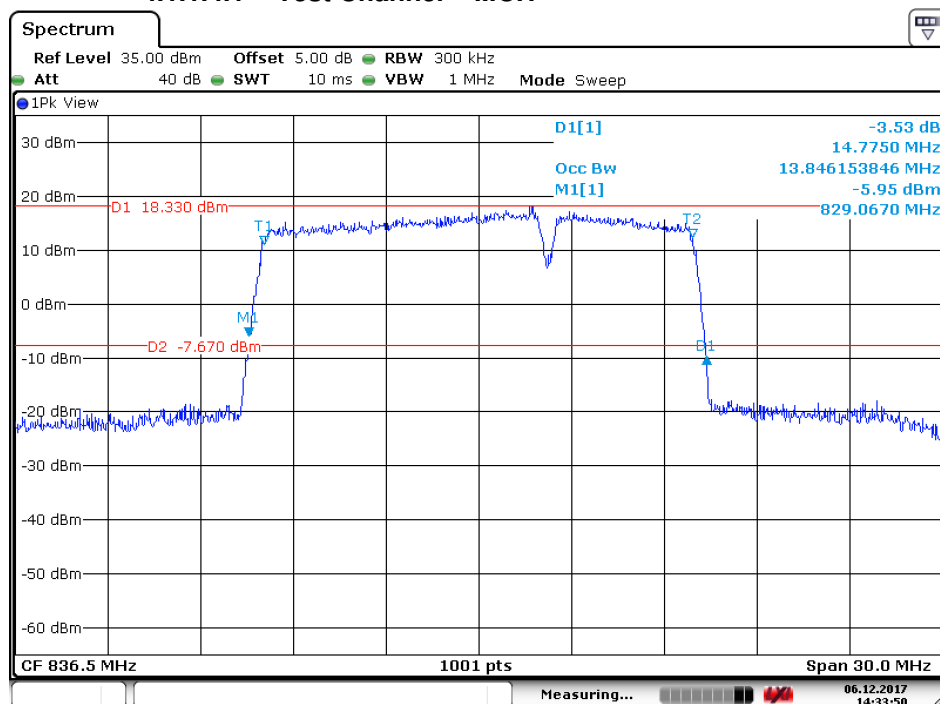
4.1.1.3 Test Mode = LTE/TM3 5+10MHz



Date: 6.DEC.2017 14:32:26

4.1.1.4 Test Mode = LTE/TM1 10+5MHz

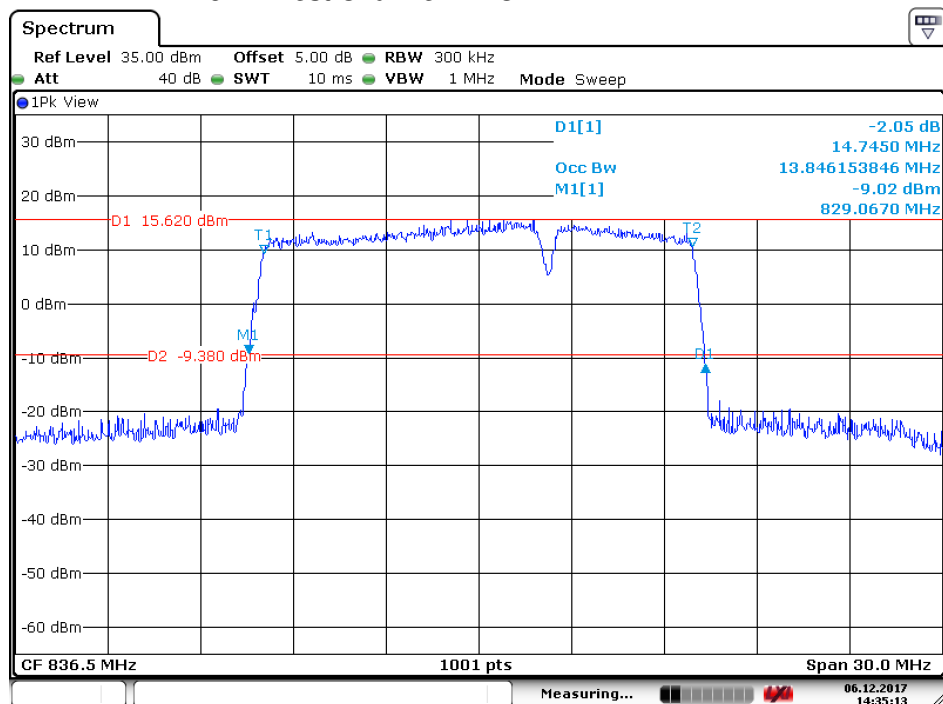
4.1.1.4.1 Test Channel = MCH



Date: 6.DEC.2017 14:33:50

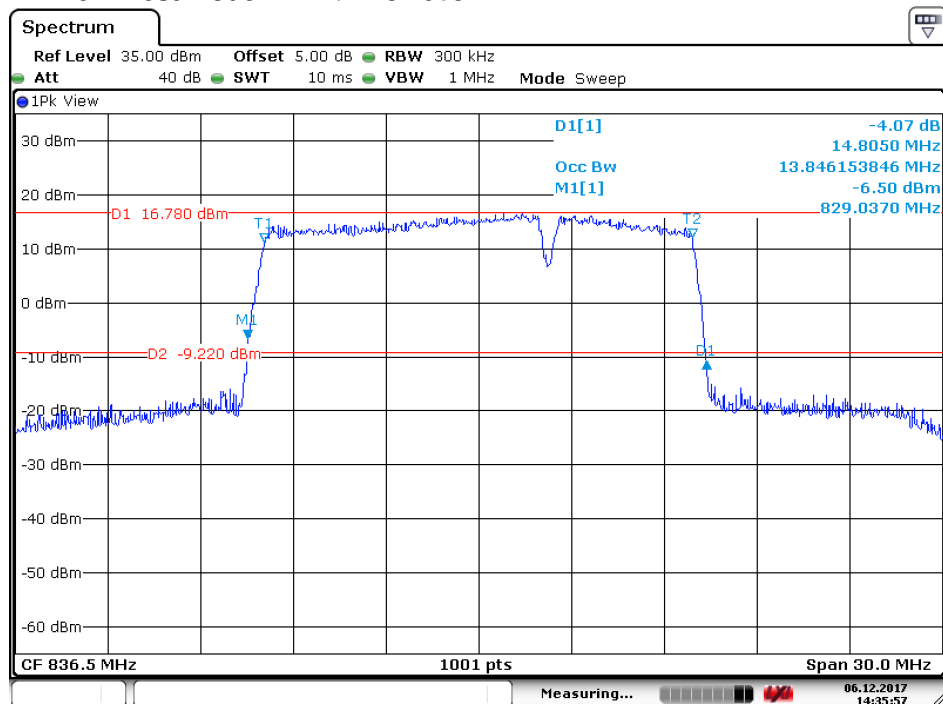
4.1.1.5 Test Mode = LTE/TM2 10+5MHz

4.1.1.5.1 Test Channel = MCH



Date: 6.DEC.2017 14:35:13

4.1.1.6 Test Mode = LTE/TM3 10+5MHz

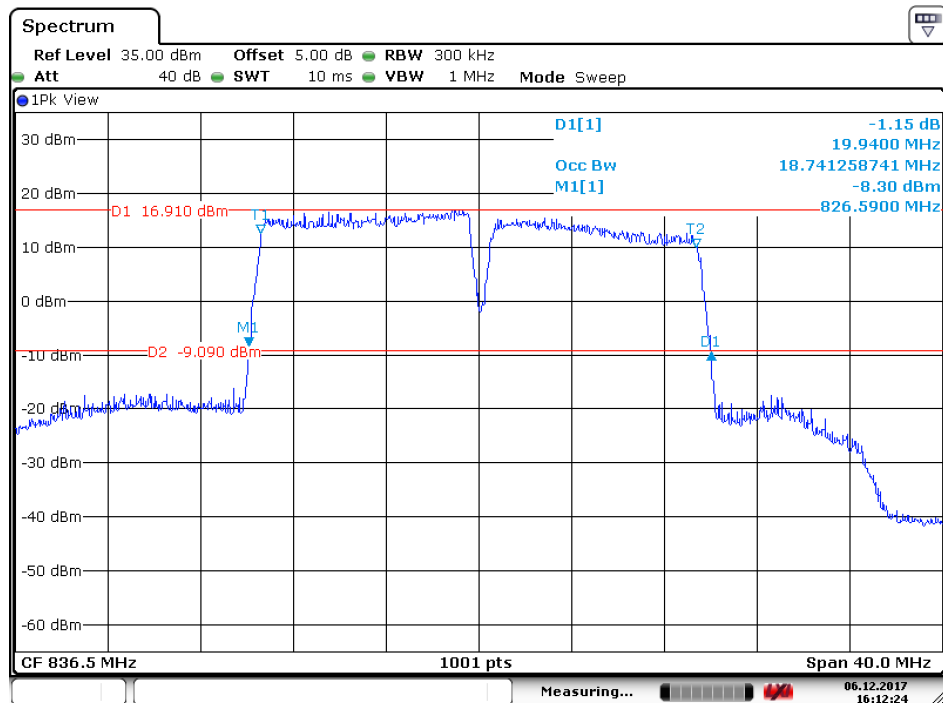


Date: 6.DEC.2017 14:35:58



4.1.1.7 Test Mode = LTE/TM1 10+10MHz

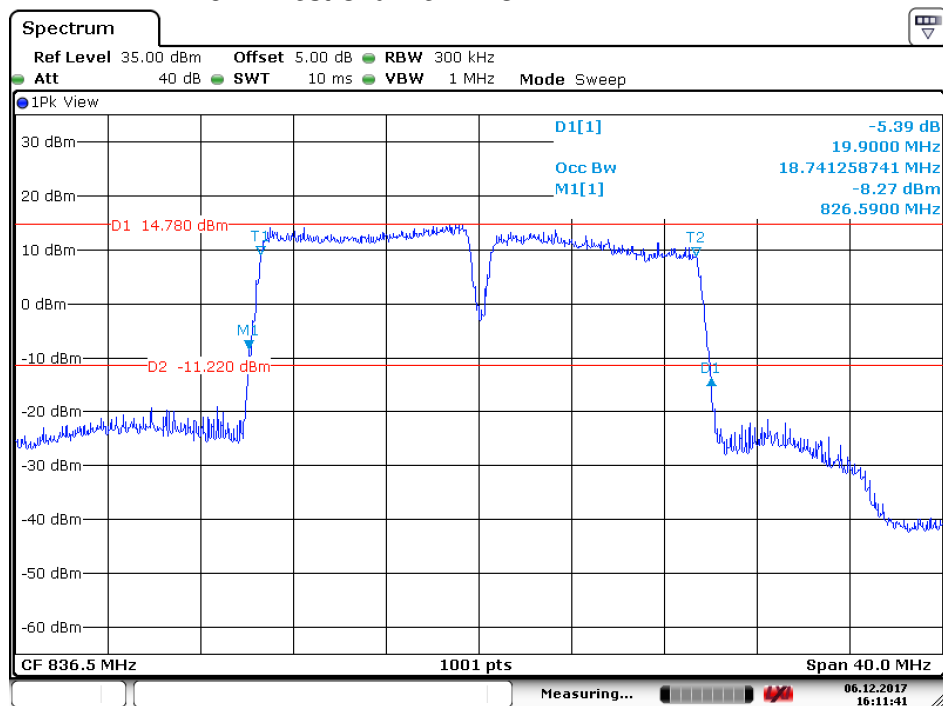
4.1.1.7.1 Test Channel = MCH



Date: 6.DEC.2017 16:12:24

4.1.1.8 Test Mode = LTE/TM2 10+10MHz

4.1.1.8.1 Test Channel = MCH

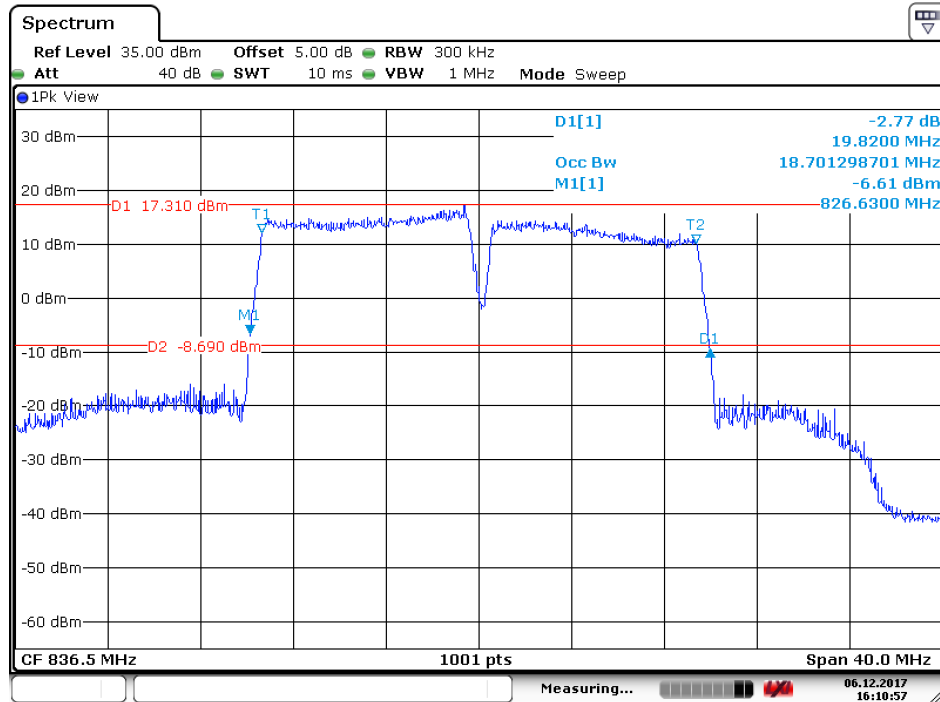


Date: 6.DEC.2017 16:11:41



4.1.1.9 Test Mode = LTE/TM3 10+10MHz

4.1.1.9.1 Test Channel = MCH



Date: 6.DEC.2017 16:10:57



5 Band Edges Compliance

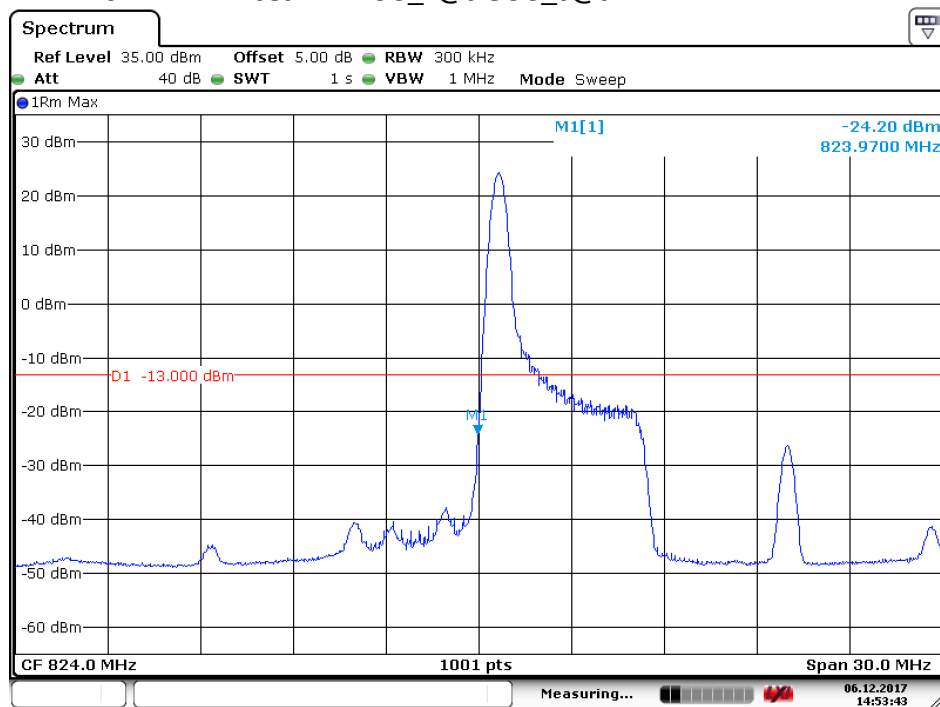
5.1 For LTE

5.1.1 Test Band = LTE band5

5.1.1.1 Test Mode = LTE/TM1 5+10MHz

5.1.1.1.1 Test Channel = LCH

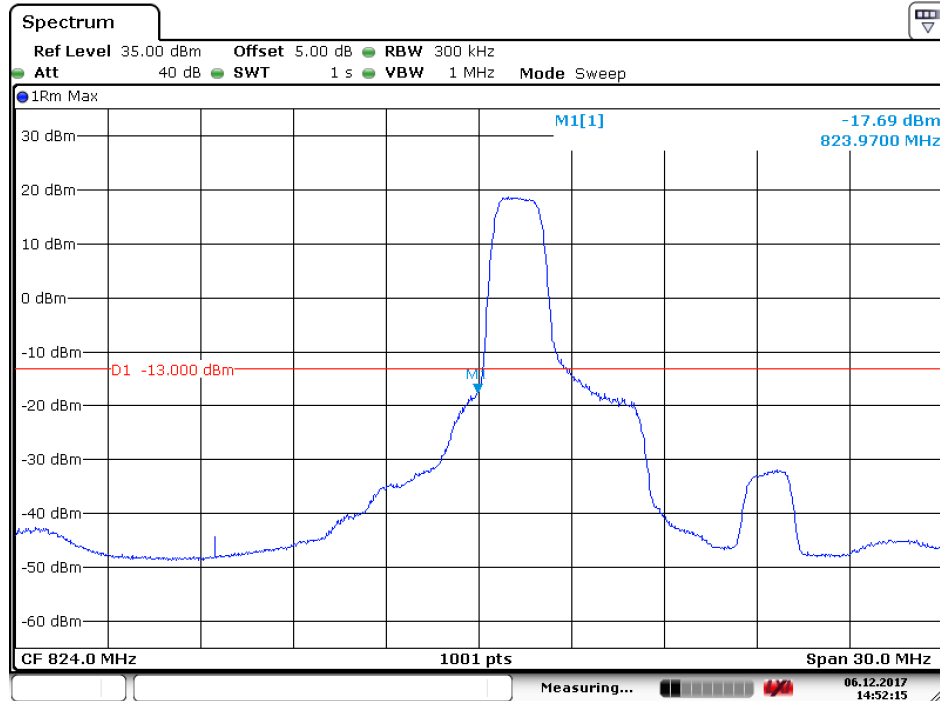
5.1.1.1.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6 DEC.2017 14:53:44

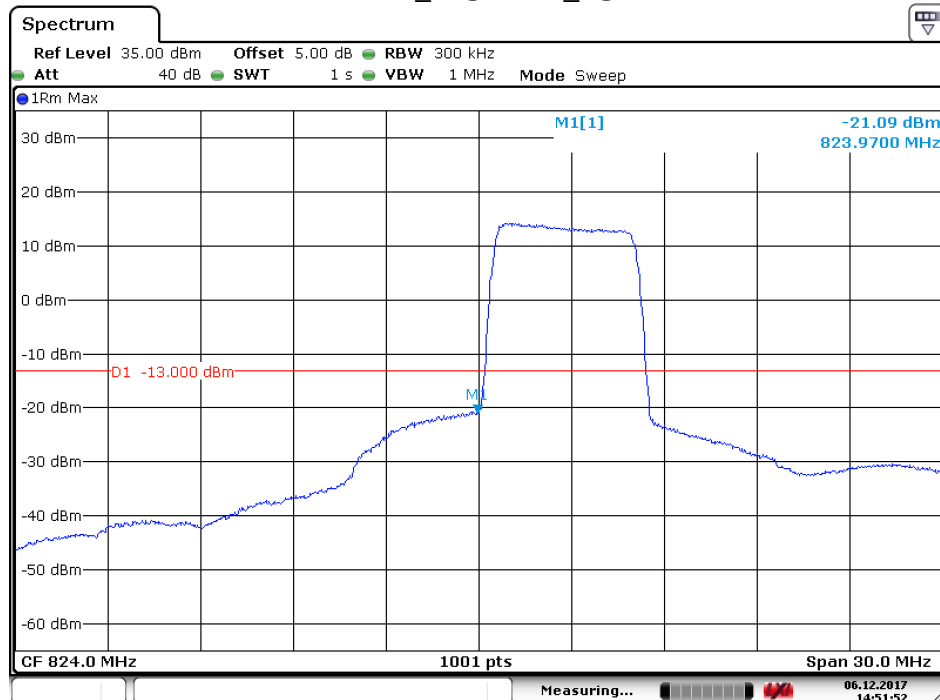


5.1.1.1.2 Test RB= PCC_8@0 SCC_0@0



Date: 6.DEC.2017 14:52:15

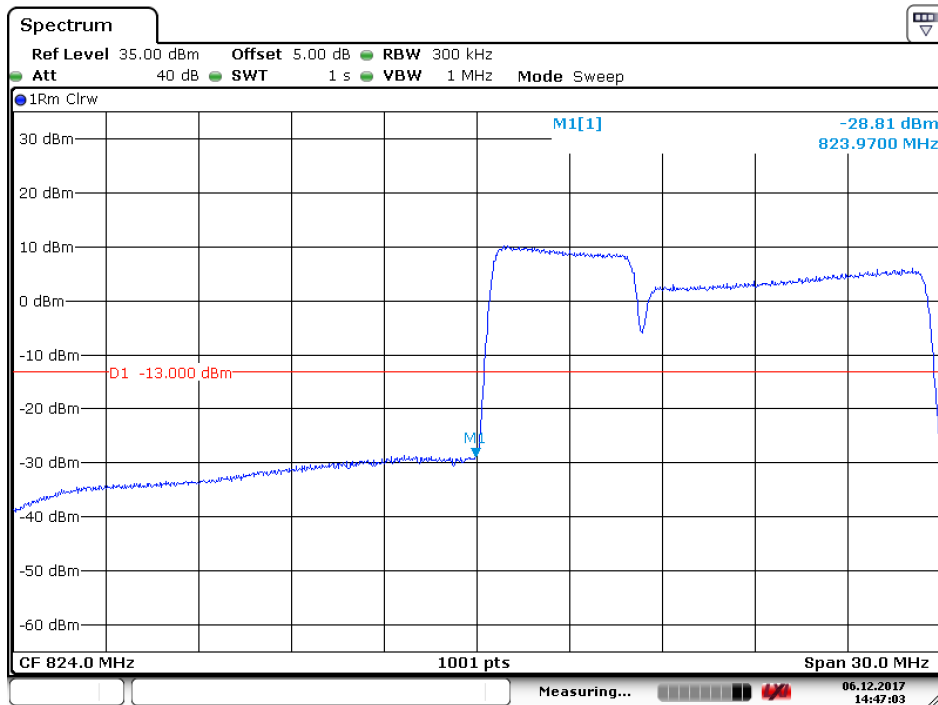
5.1.1.1.3 Test RB= PCC_25@0 SCC_0@0



Date: 6.DEC.2017 14:51:52



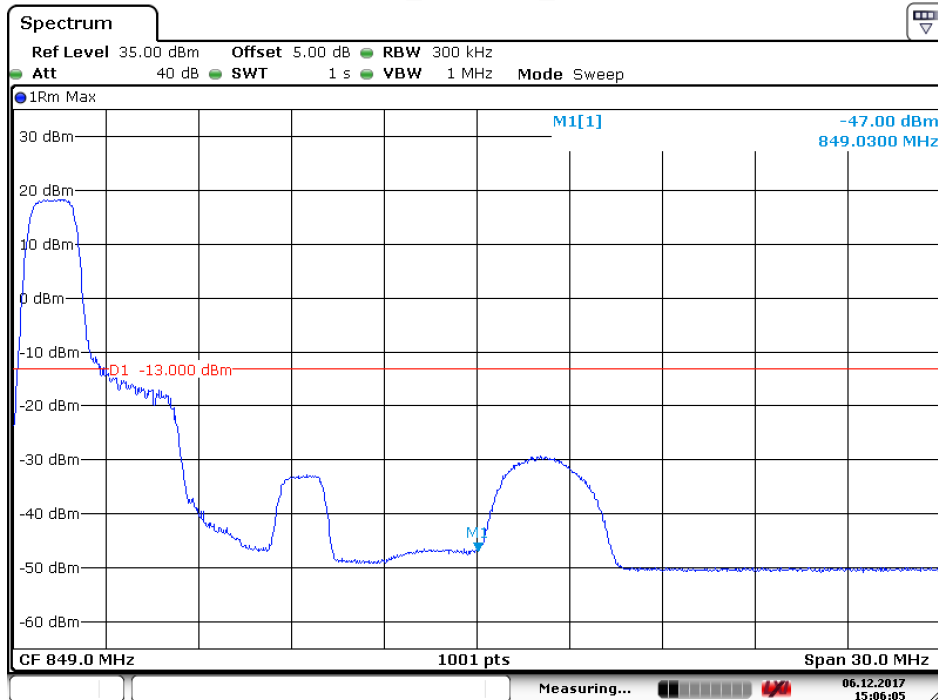
5.1.1.1.4 Test RB=PCC_25@0 SCC_50@0



Date: 6.DEC.2017 14:47:03

5.1.1.1.1 Test Channel = HCH

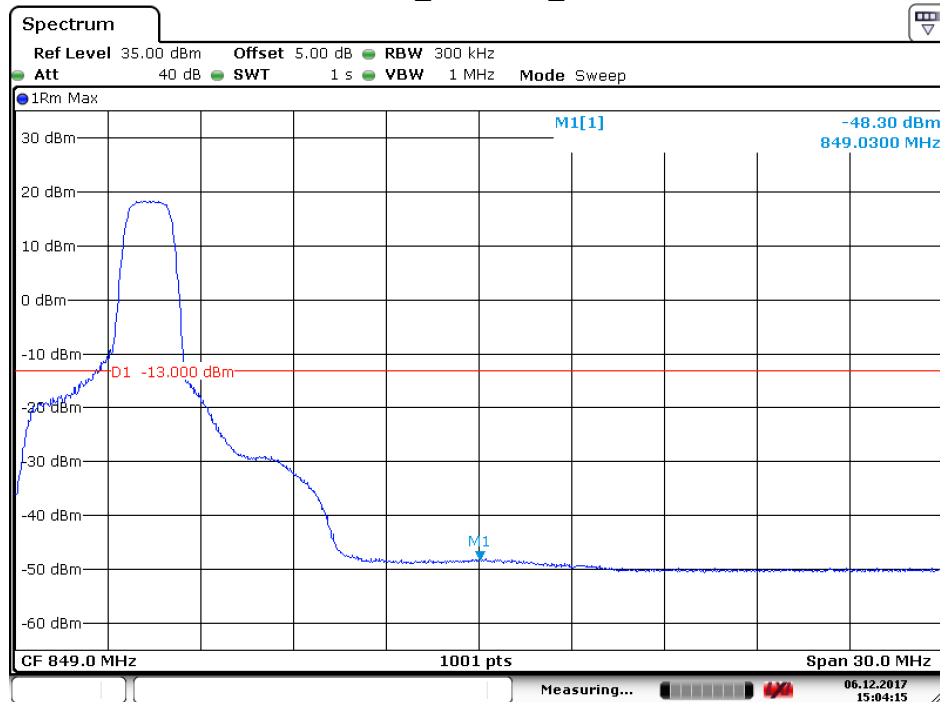
5.1.1.1.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 15:06:06

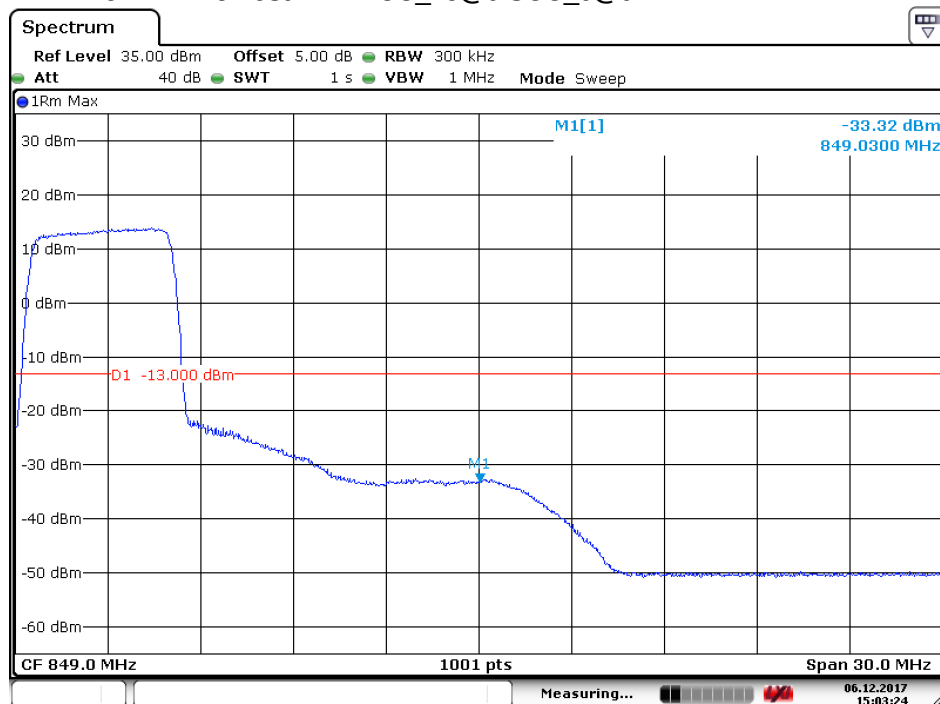


5.1.1.1.2 Test RB= PCC_8@0 SCC_0@0



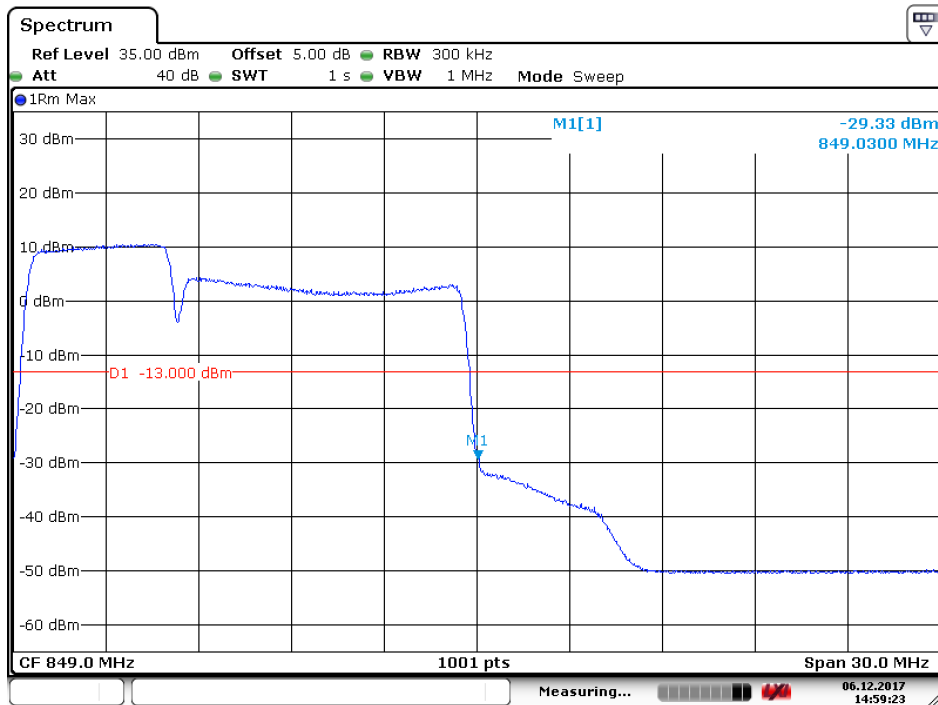
Date: 6.DEC.2017 15:04:15

5.1.1.1.3 Test RB= PCC_25@0 SCC_0@0



Date: 6.DEC.2017 15:03:24

5.1.1.1.1.4 Test RB= PCC_25@0 SCC_50@0

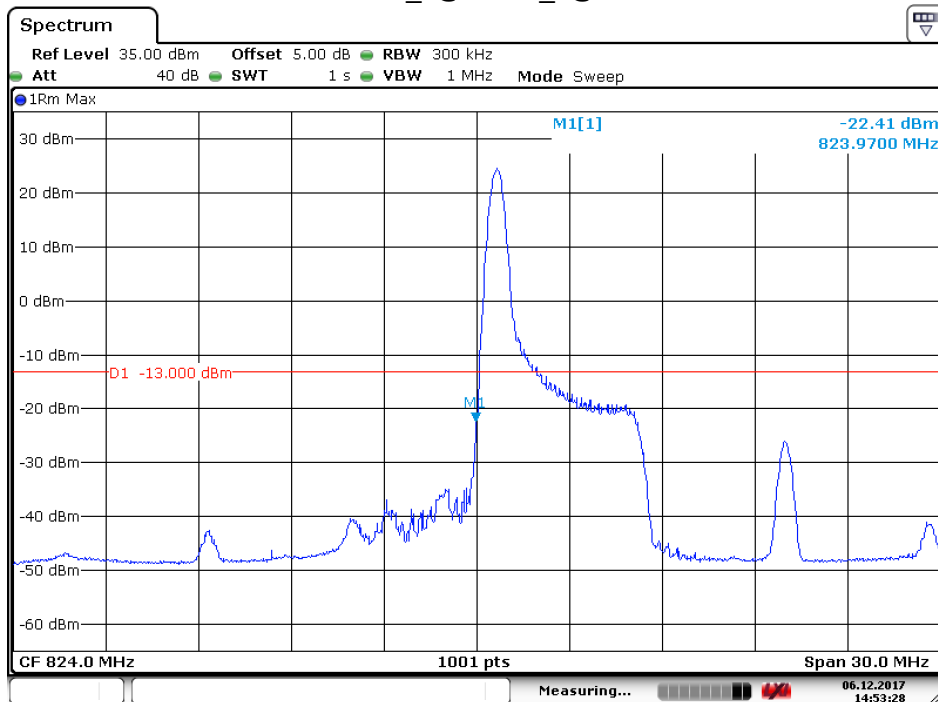


Date: 6.DEC.2017 14:59:24

5.1.1.2 Test Mode = LTE/TM2 5+10MHz

5.1.1.2.1 Test Channel = LCH

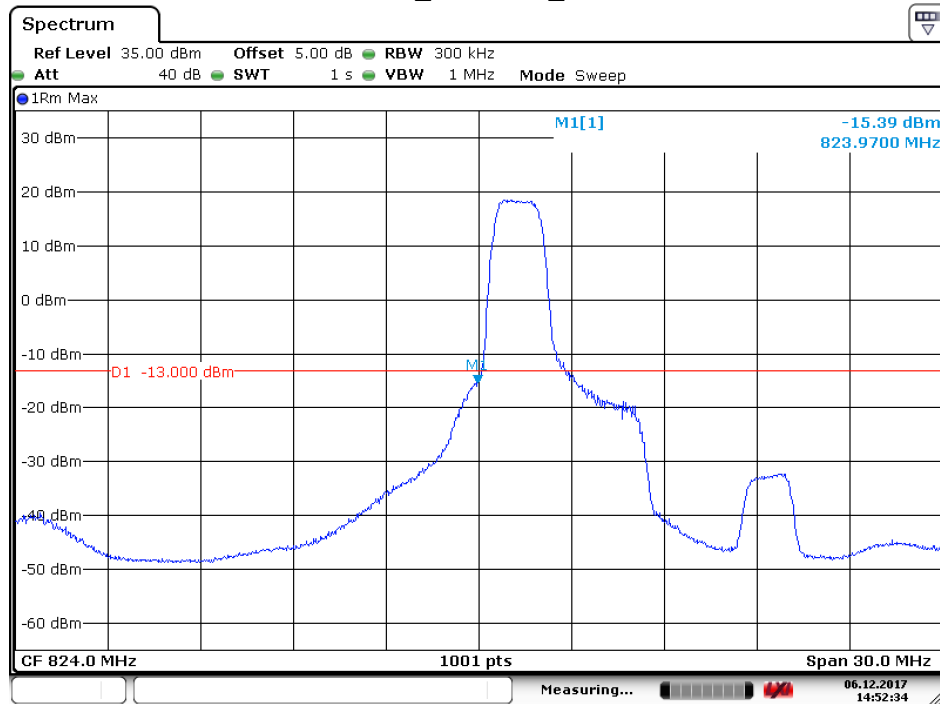
5.1.1.2.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 14:53:28

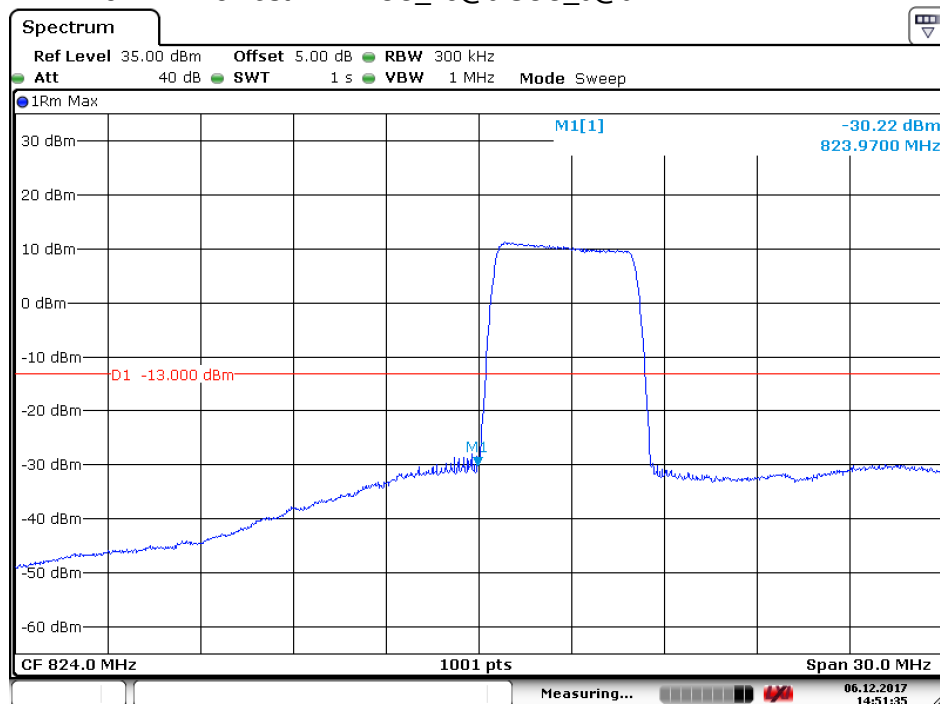


5.1.1.2.1.2 Test RB= PCC_8@0 SCC_0@0



Date: 6.DEC.2017 14:52:35

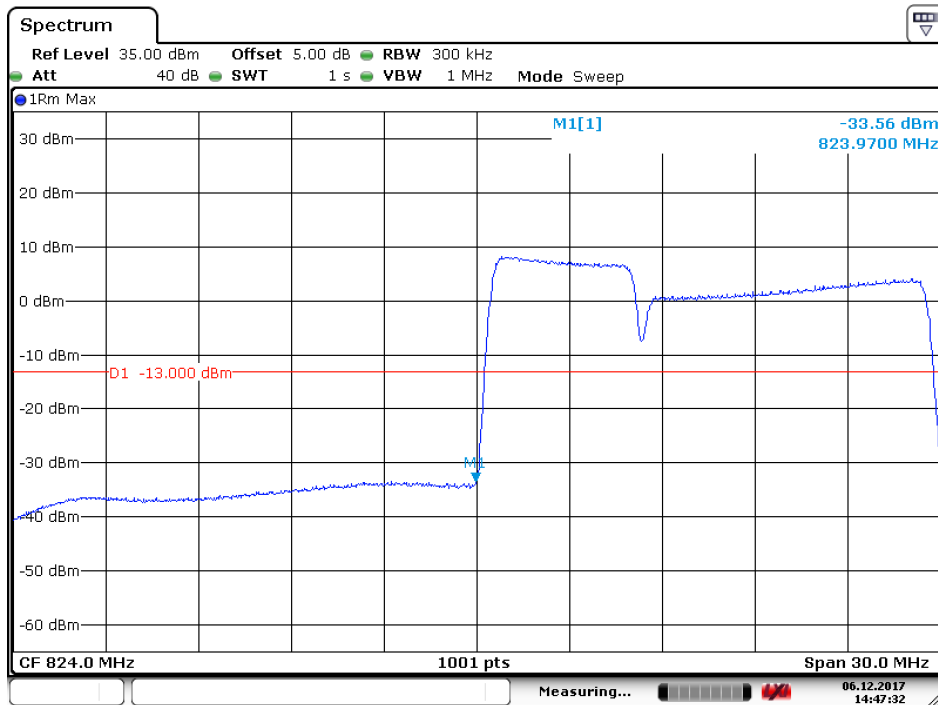
5.1.1.2.1.3 Test RB= PCC_25@0 SCC_0@0



Date: 6.DEC.2017 14:51:36



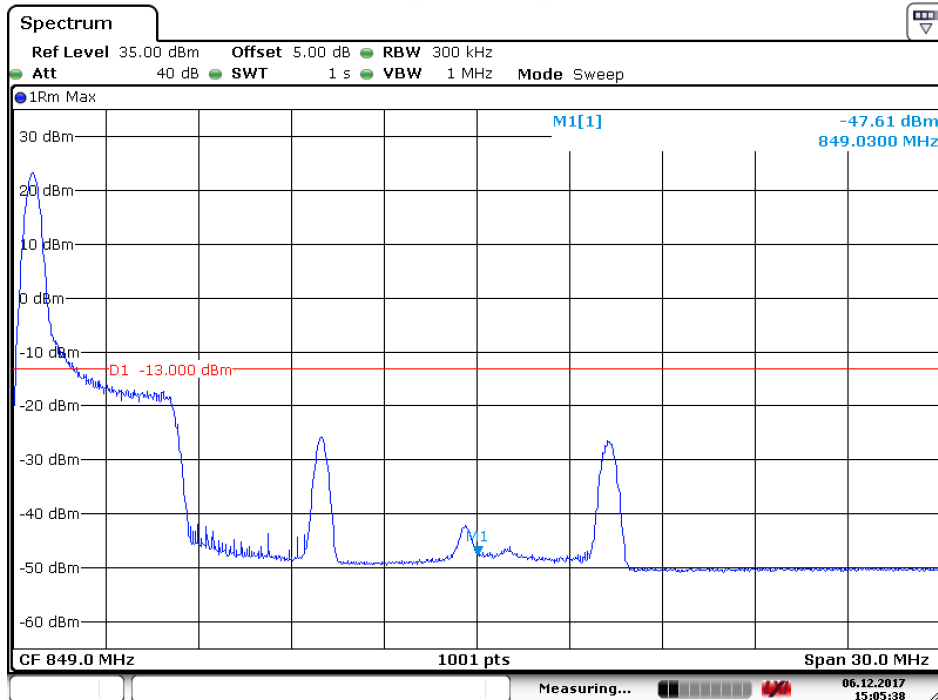
5.1.1.2.1.4 Test RB= PCC_25@0 SCC_50@0



Date: 6.DEC.2017 14:47:32

5.1.1.2.2 Test Channel = HCH

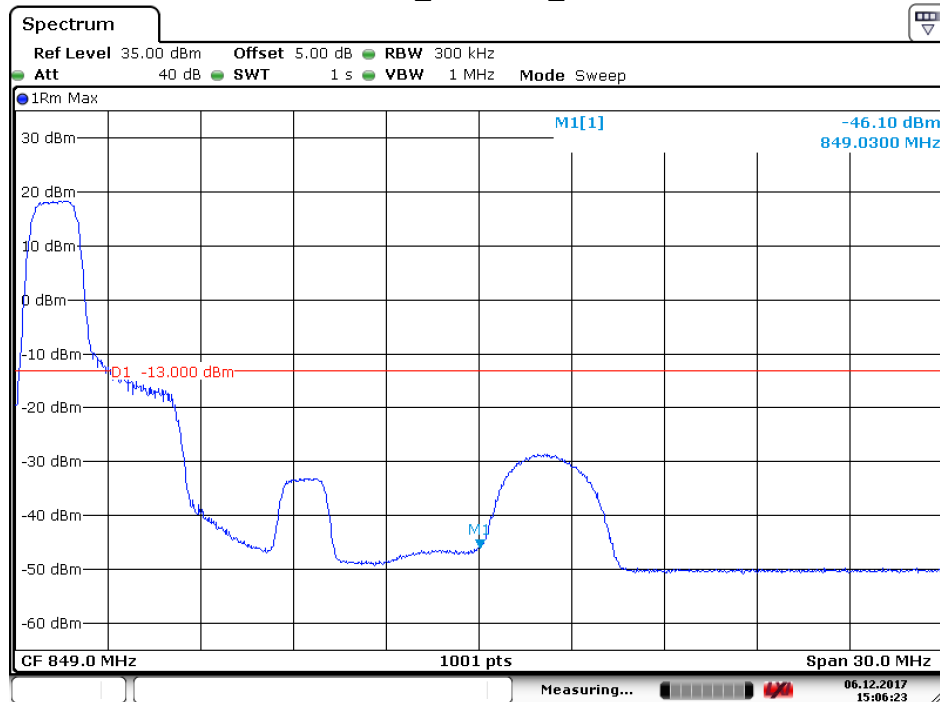
5.1.1.2.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 15:05:38

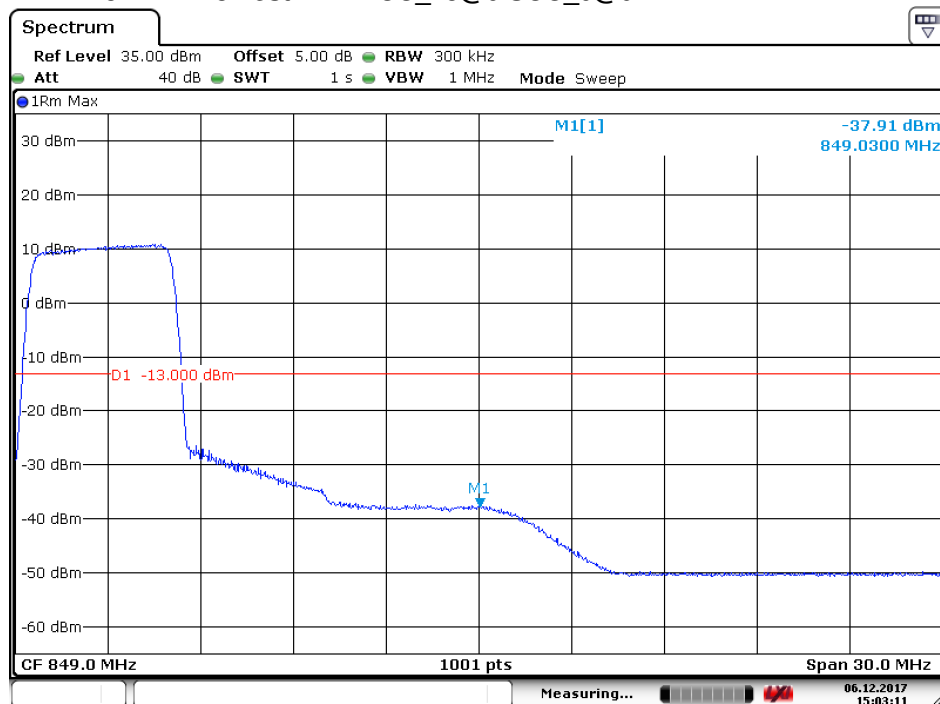


5.1.1.2.2.2 Test RB= PCC_8@0 SCC_0@0



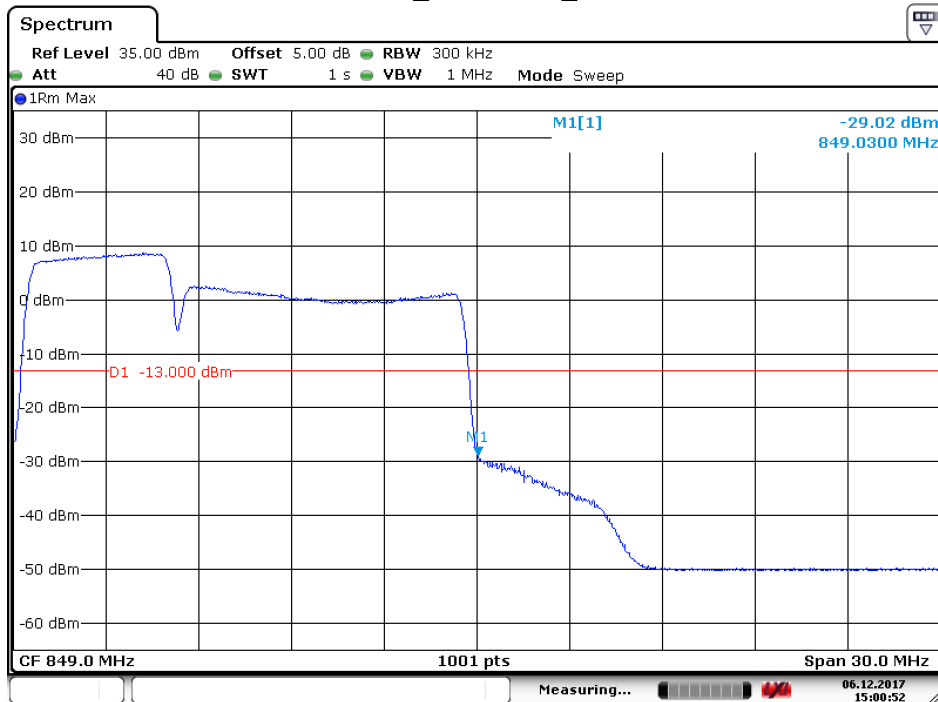
Date: 6.DEC.2017 15:06:23

5.1.1.2.2.3 Test RB= PCC_25@0 SCC_0@0



Date: 6.DEC.2017 15:03:11

5.1.1.2.2.4 Test RB= PCC_25@0 SCC_50@0

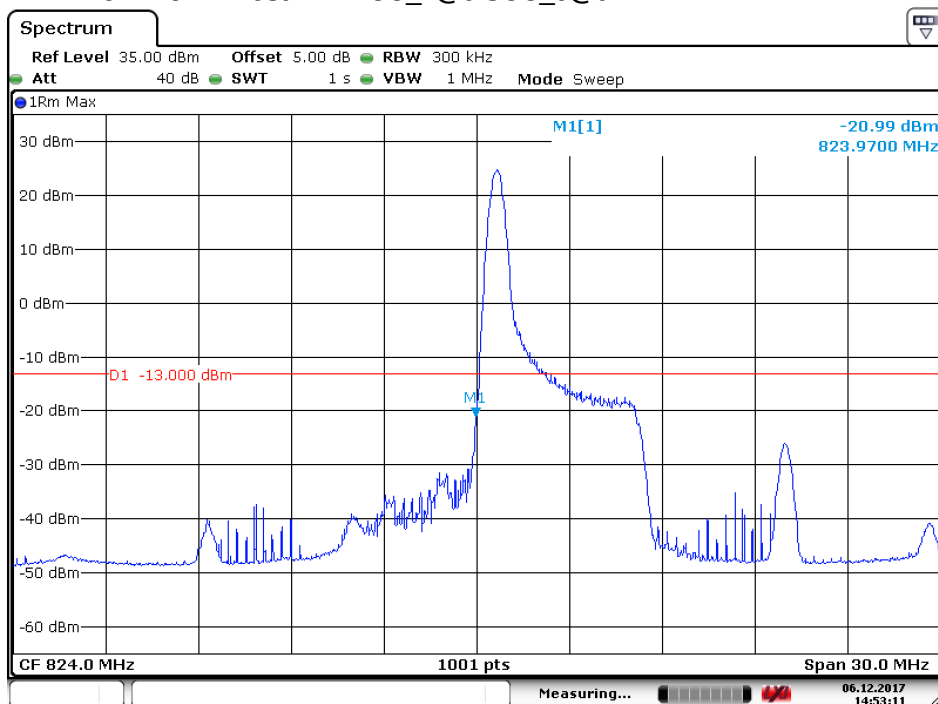


Date: 6.DEC.2017 15:00:52

5.1.1.3 Test Mode = LTE/TM3 5+10MHz

5.1.1.3.1 Test Channel = LCH

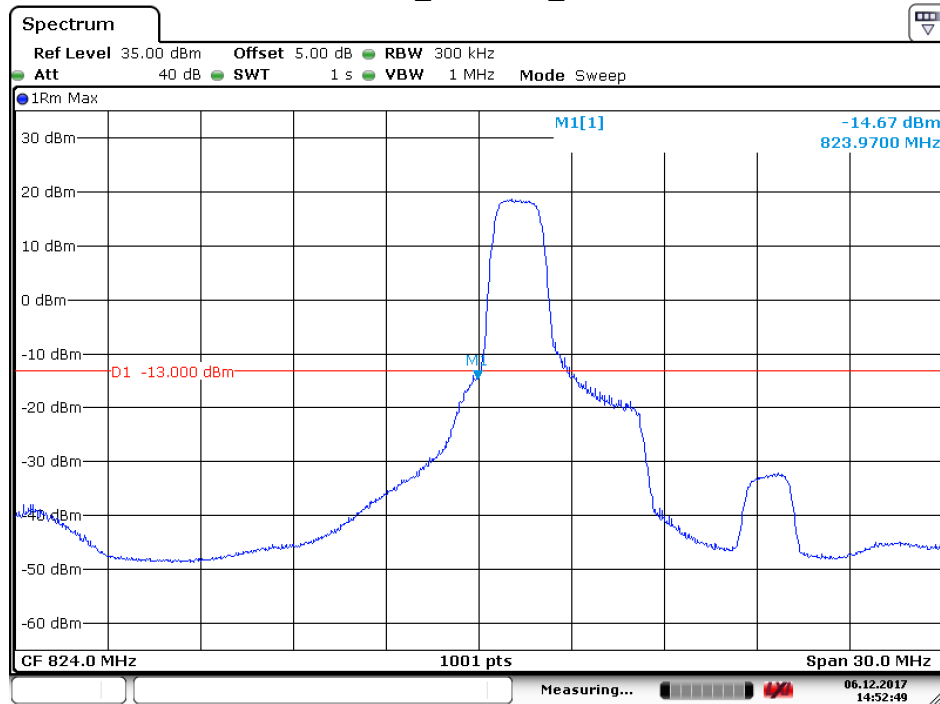
5.1.1.3.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 14:53:11

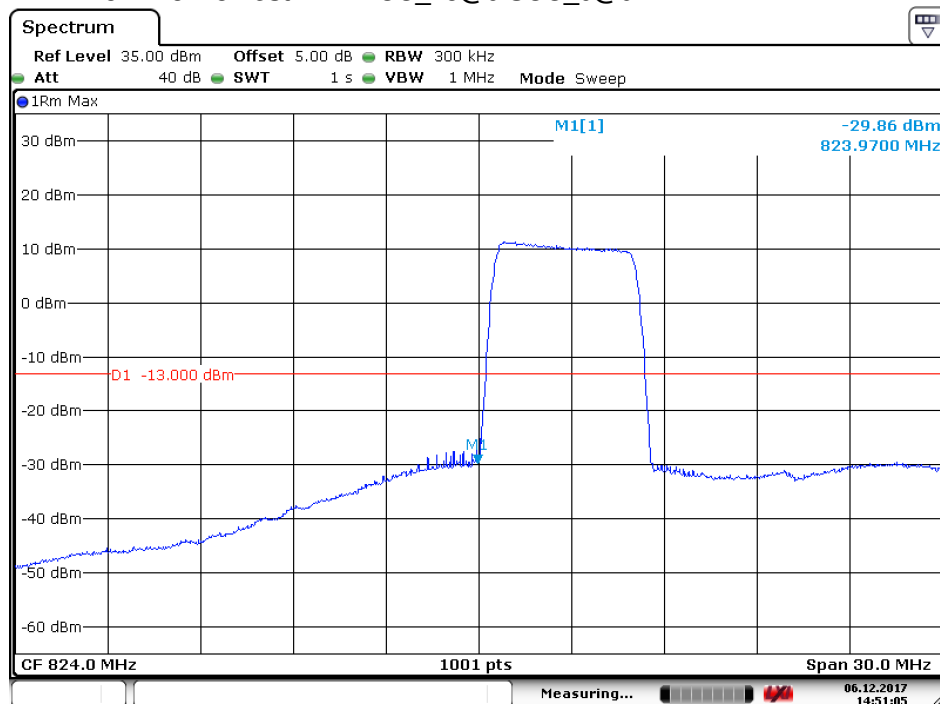


5.1.1.3.1.2 Test RB= PCC_8@0 SCC_0@0



Date: 6 DEC. 2017 14:52:50

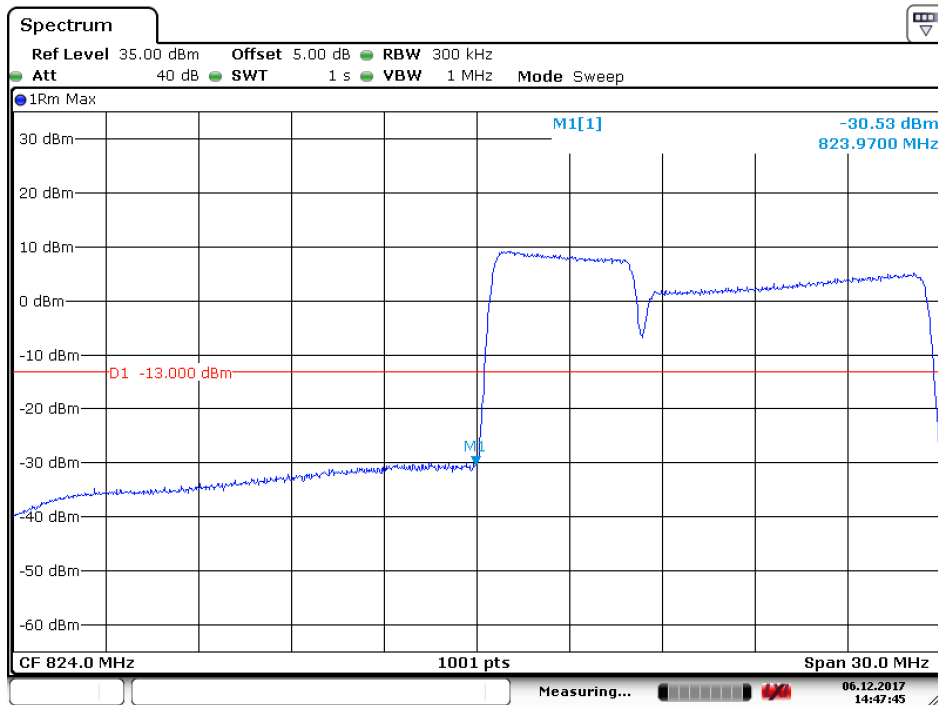
5.1.1.3.1.3 Test RB= PCC_25@0 SCC_0@0



Date: 6 DEC. 2017 14:51:05



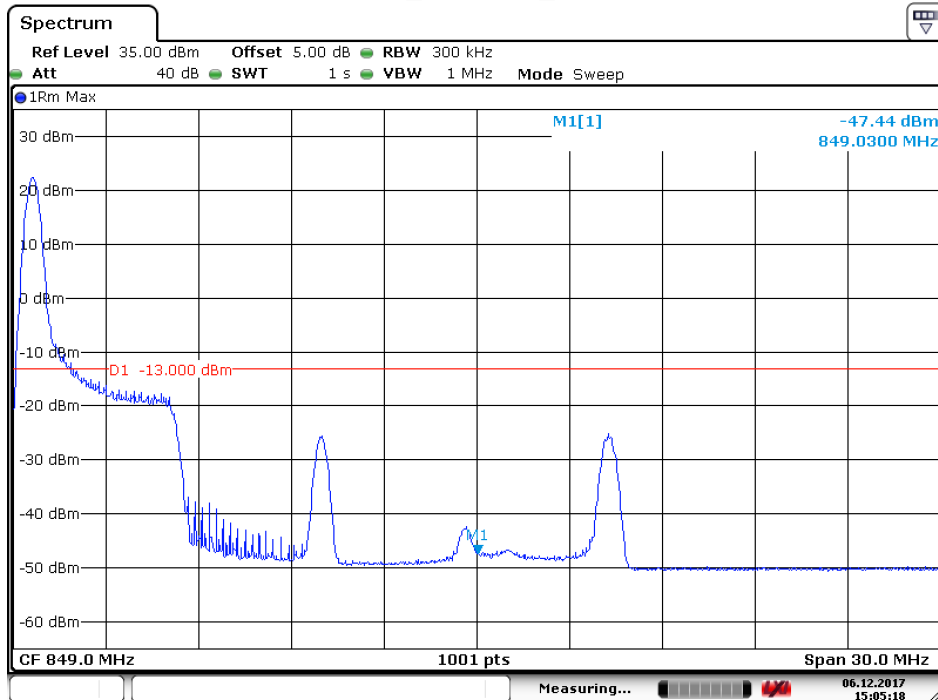
5.1.1.3.1.4 Test RB= PCC_25@0 SCC_50@0



Date: 6.DEC.2017 14:47:46

5.1.1.3.2 Test Channel = HCH

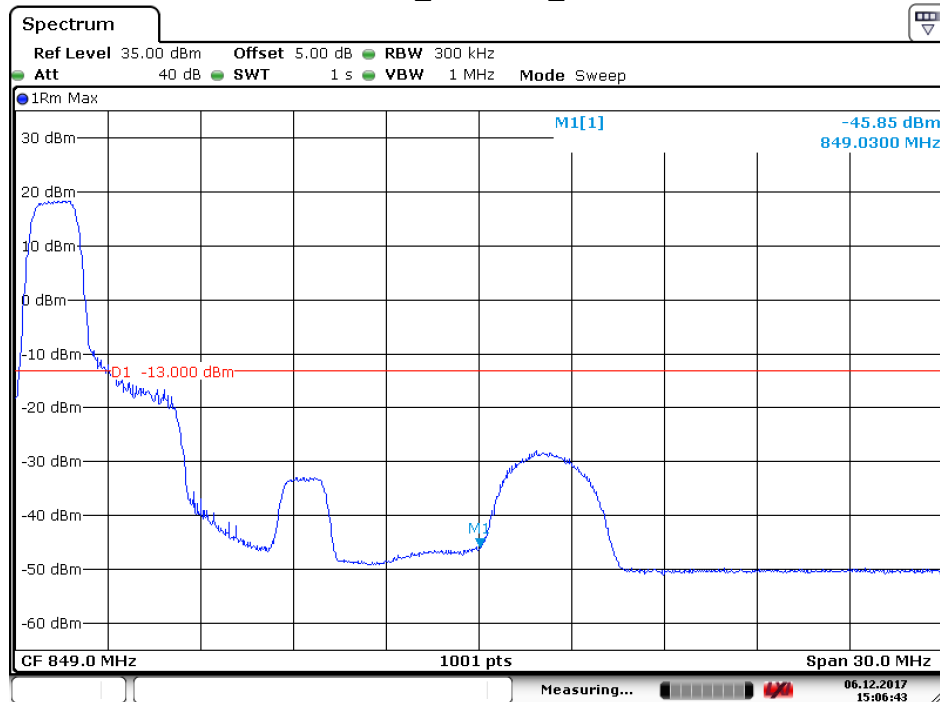
5.1.1.3.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 15:05:18

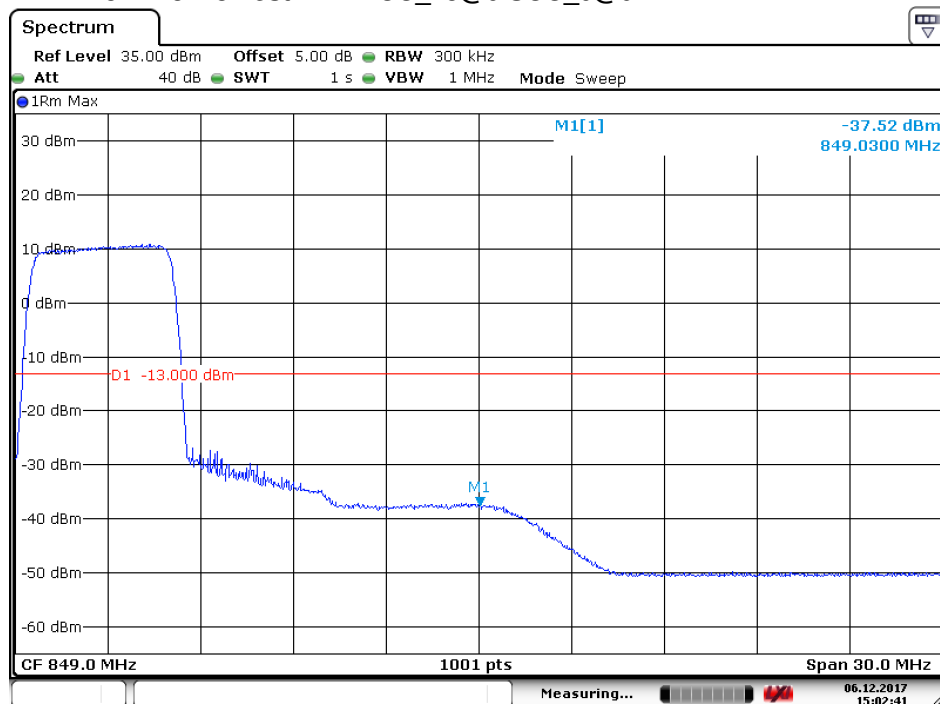


5.1.1.3.2.2 Test RB= PCC_8@0 SCC_0@0



Date: 6.DEC.2017 15:06:43

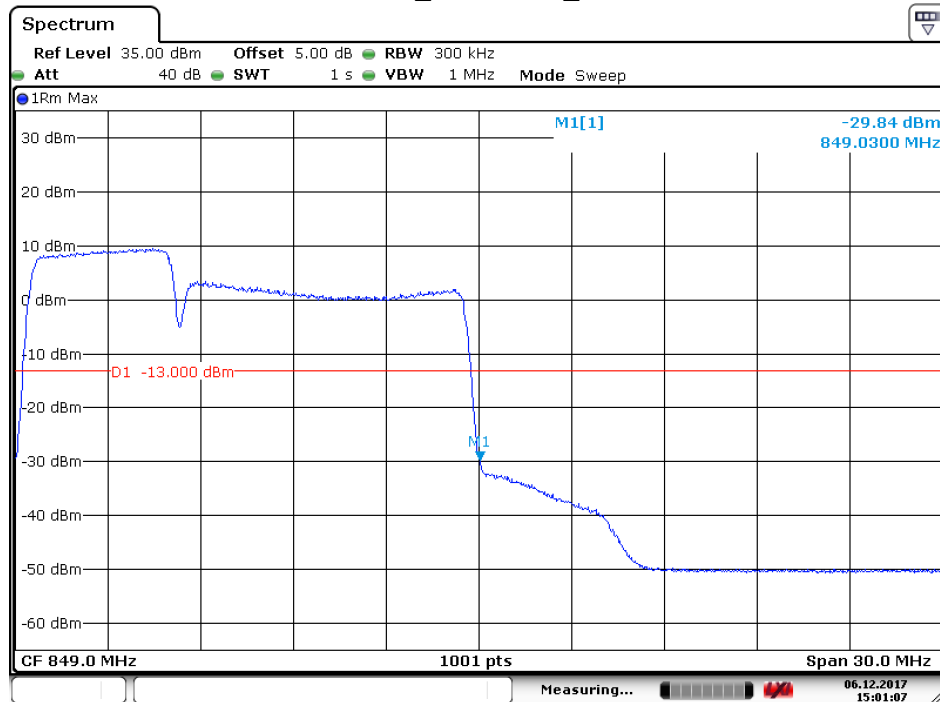
5.1.1.3.2.3 Test RB= PCC_25@0 SCC_0@0



Date: 6.DEC.2017 15:02:41



5.1.1.3.2.4 Test RB= PCC_25@0 SCC_50@0

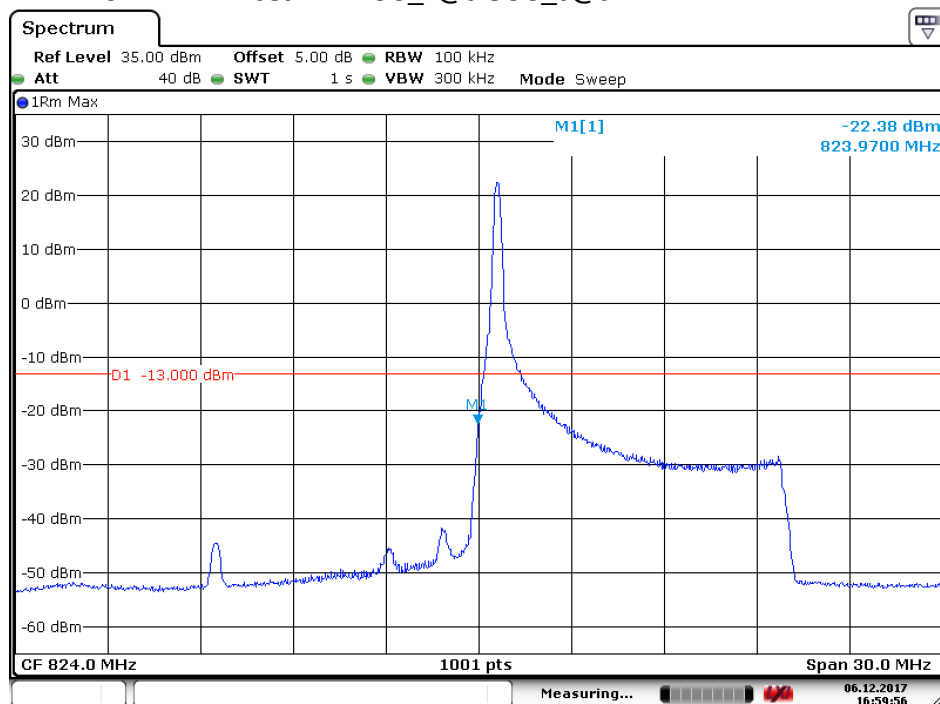


Date: 6.DEC.2017 15:01:08

5.1.1.4 Test Mode = LTE/TM1 10+5MHz

5.1.1.4.1 Test Channel = LCH

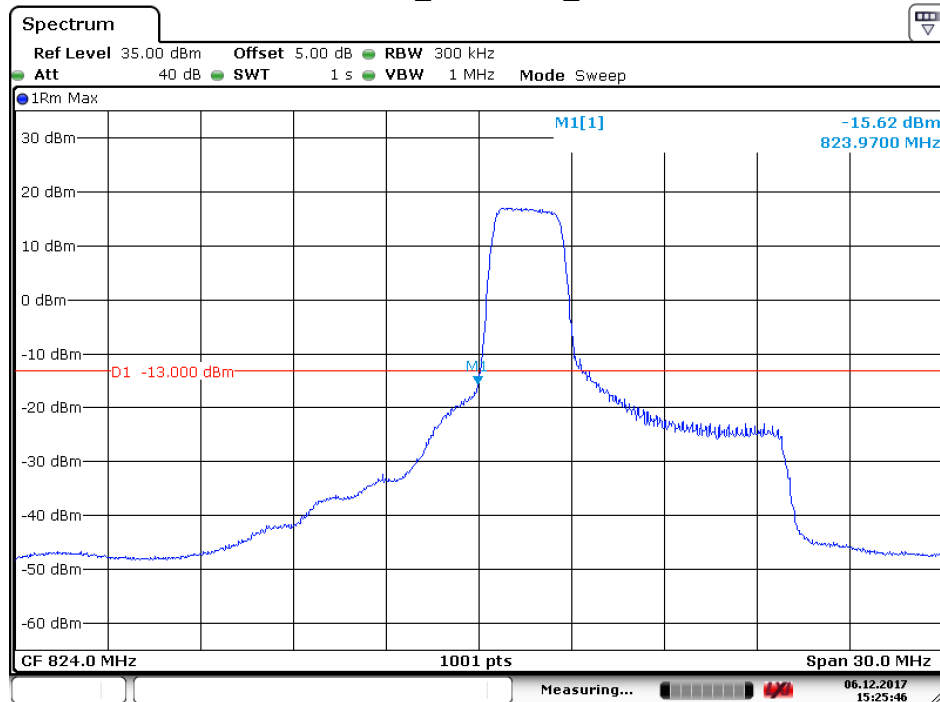
5.1.1.4.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:59:57

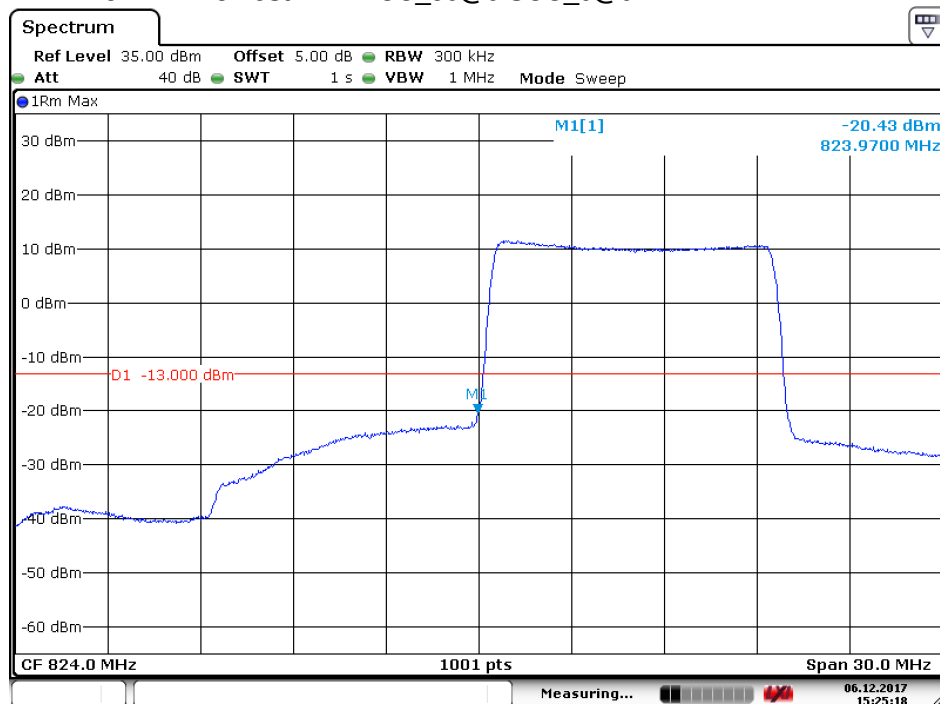


5.1.1.4.1.2 Test RB= PCC_12@0 SCC_0@0



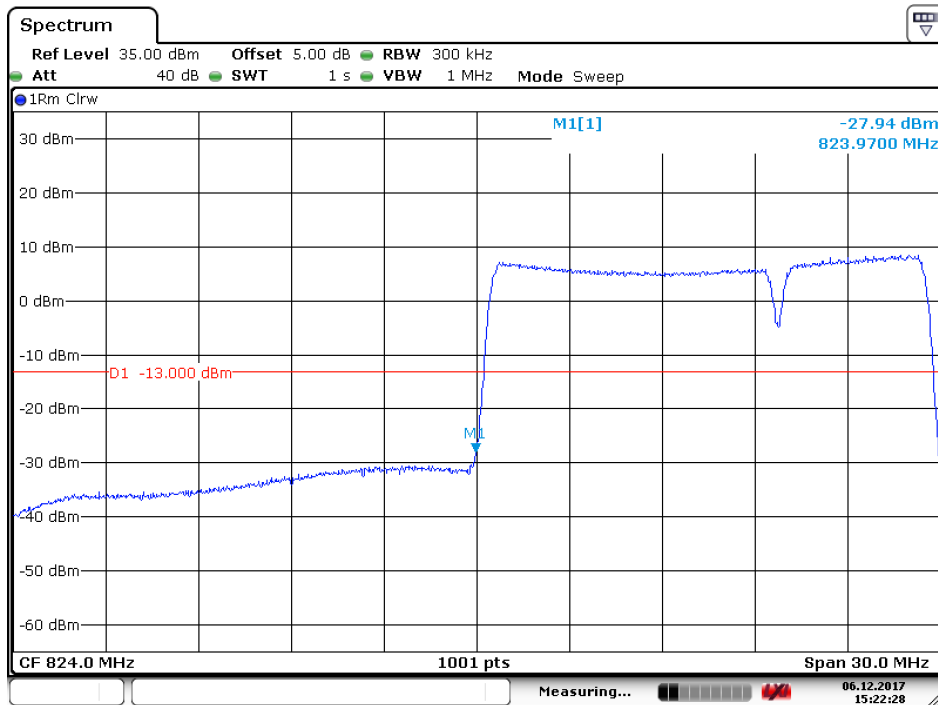
Date: 6.DEC.2017 15:25:46

5.1.1.4.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:25:19

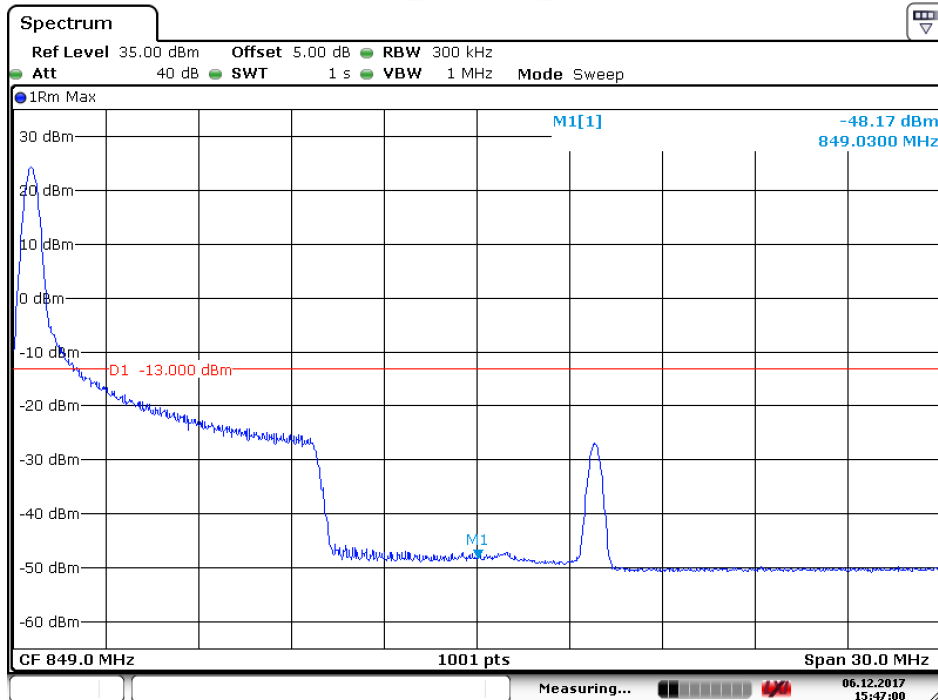
5.1.1.4.1.4 Test RB= PCC_50@0 SCC_25@0



Date: 6.DEC.2017 15:22:29

5.1.1.4.2 Test Channel = HCH

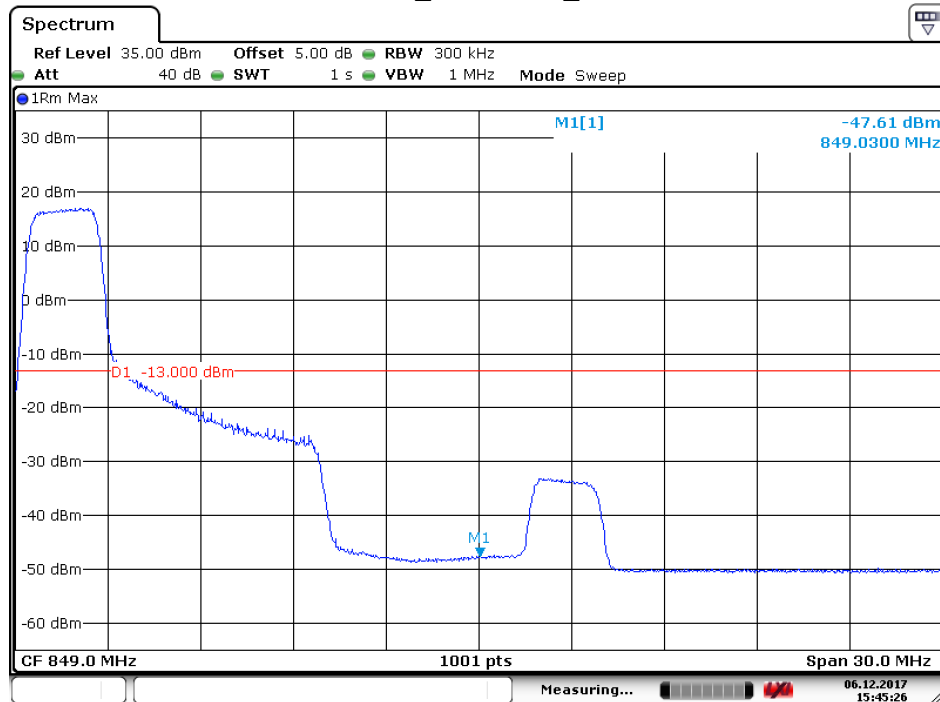
5.1.1.4.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 15:47:01

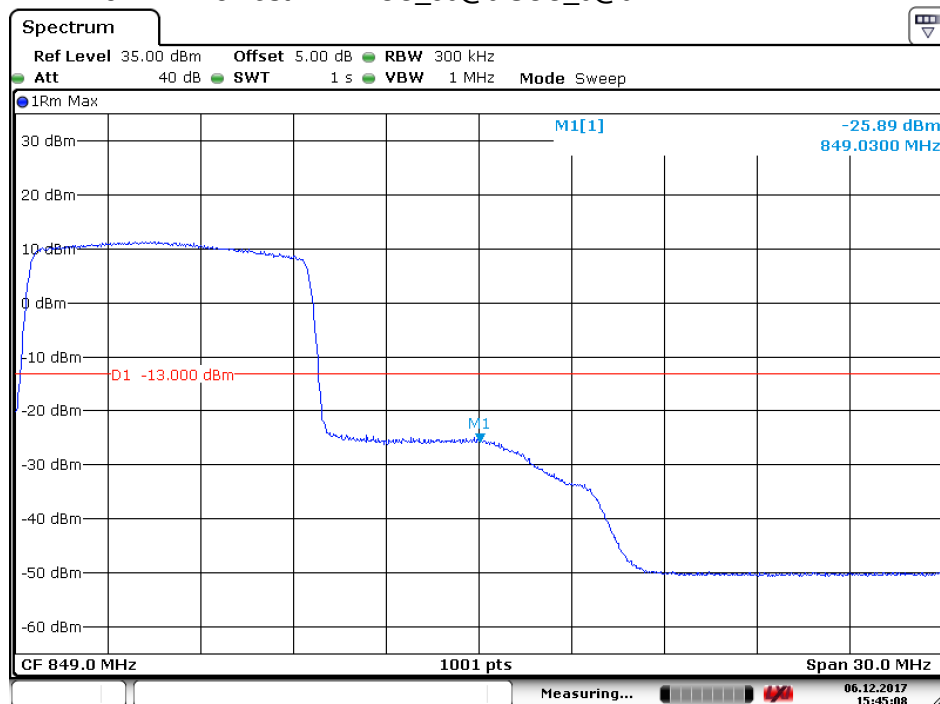


5.1.1.4.2.2 Test RB= PCC_12@0 SCC_0@0



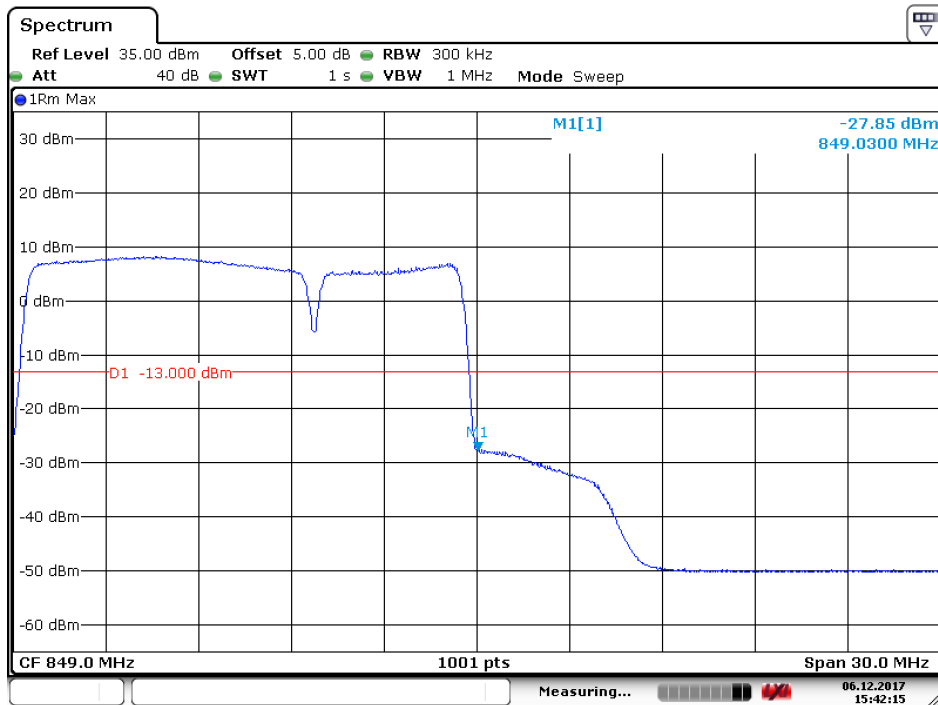
Date: 6.DEC.2017 15:45:27

5.1.1.4.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:45:08

5.1.1.4.2.4 Test RB= PCC_50@0 SCC_25@0

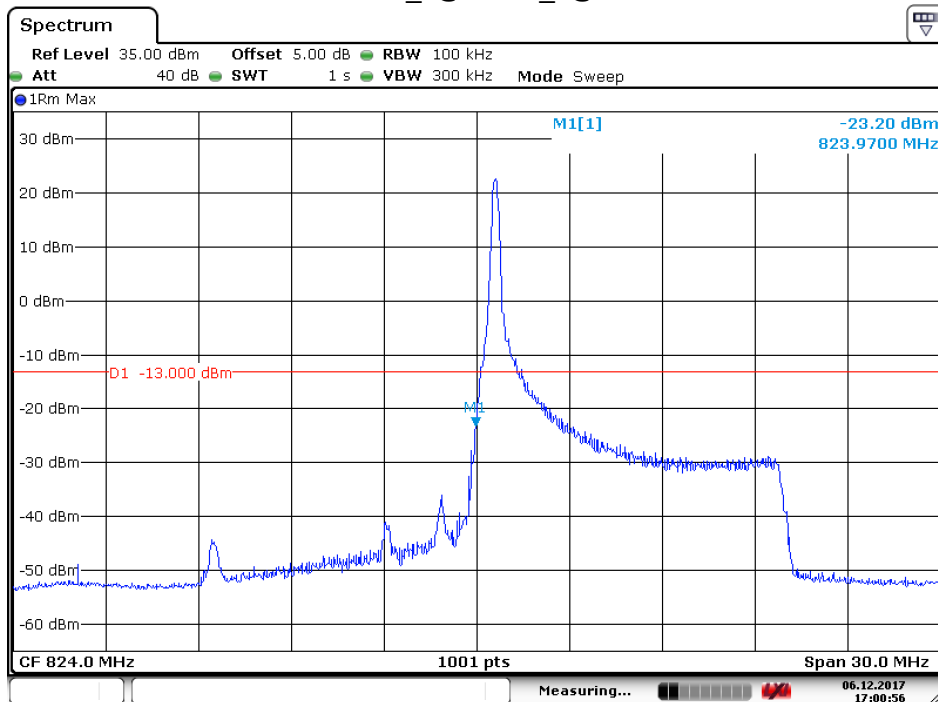


Date: 6.DEC.2017 15:42:16

5.1.1.5 Test Mode = LTE/TM2 10+5MHz

5.1.1.5.1 Test Channel = LCH

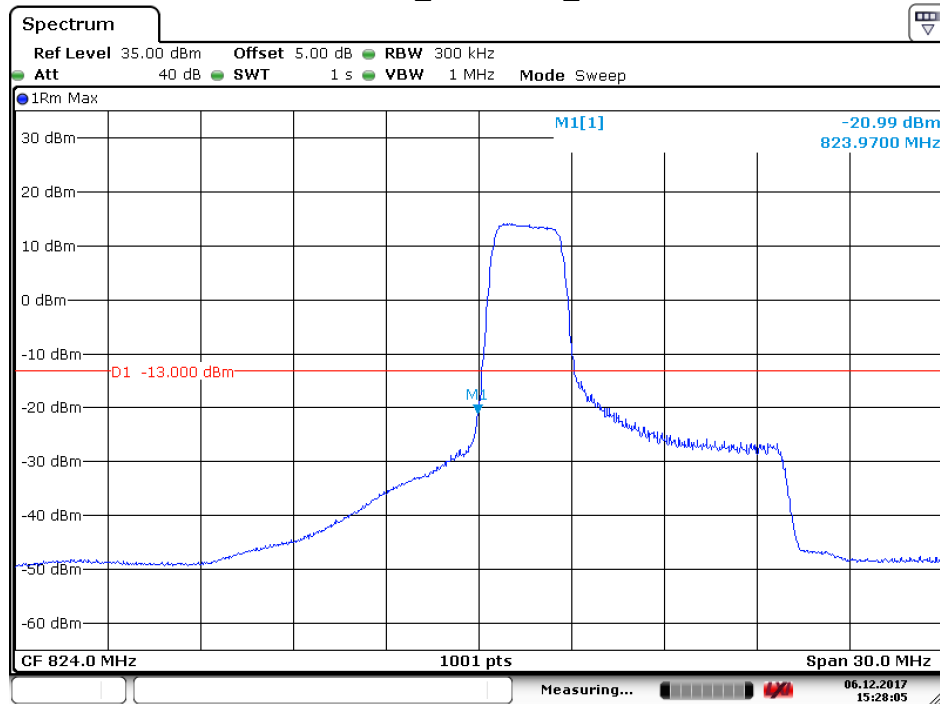
5.1.1.5.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 17:00:57

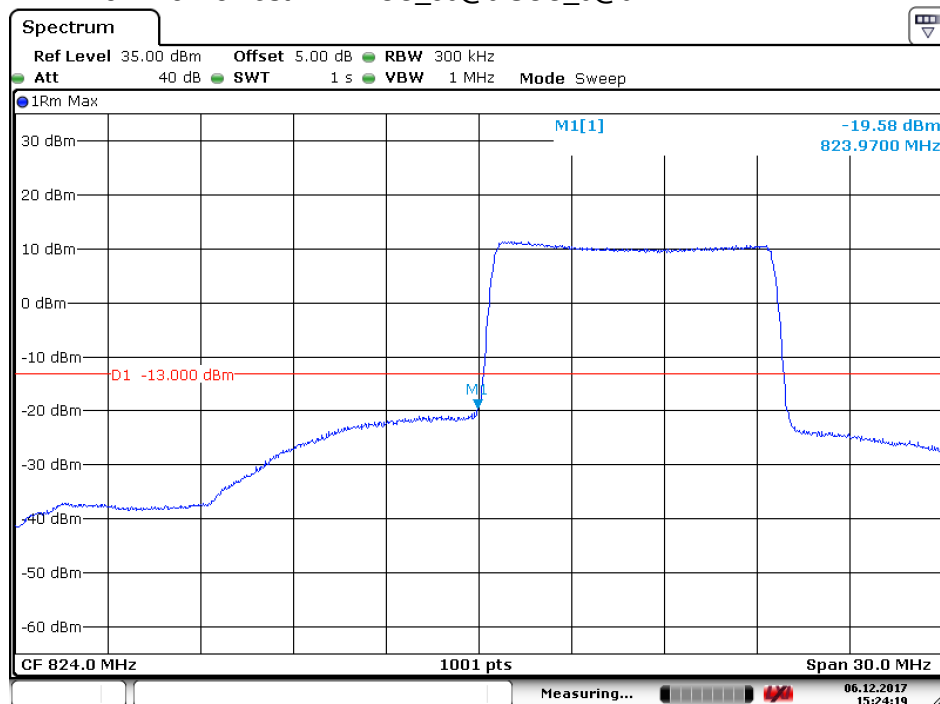


5.1.1.5.1.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 15:28:05

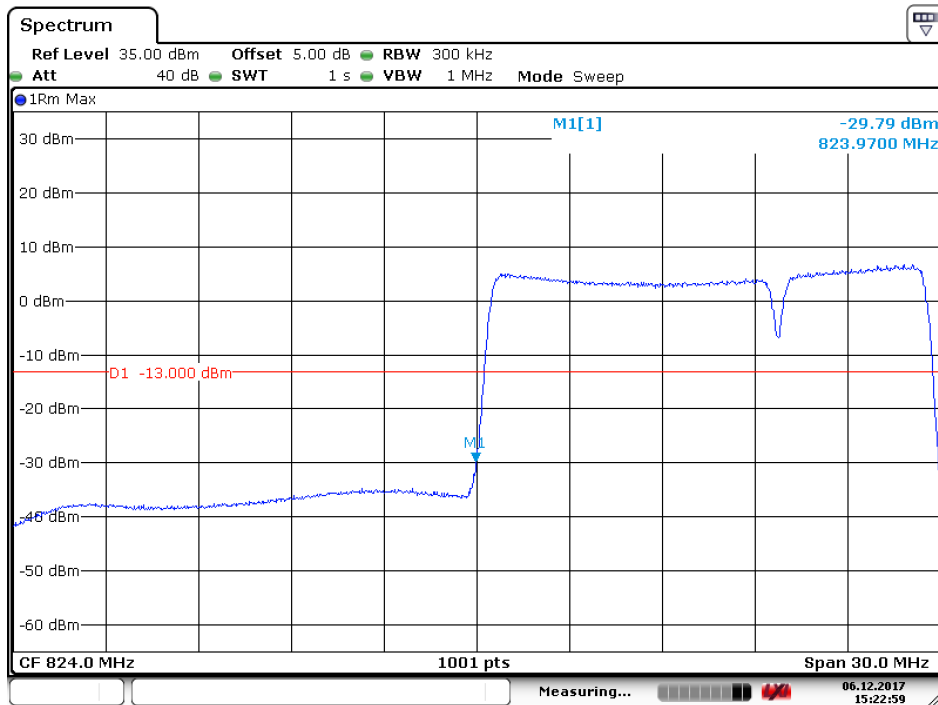
5.1.1.5.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:24:20



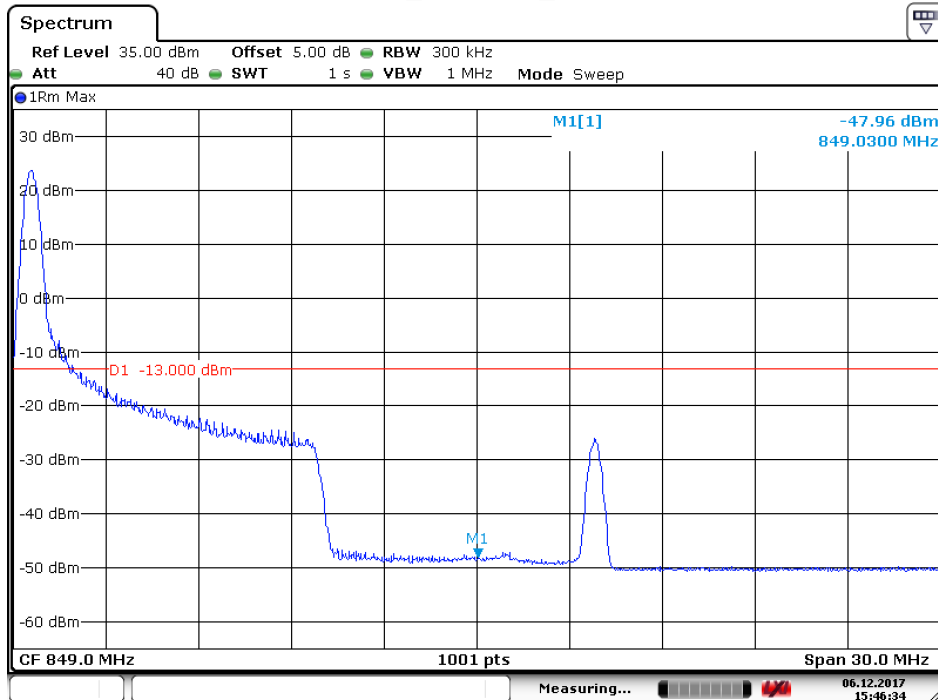
5.1.1.5.1.4 Test RB= PCC_50@0 SCC_25@0



Date: 6.DEC.2017 15:23:00

5.1.1.5.2 Test Channel = HCH

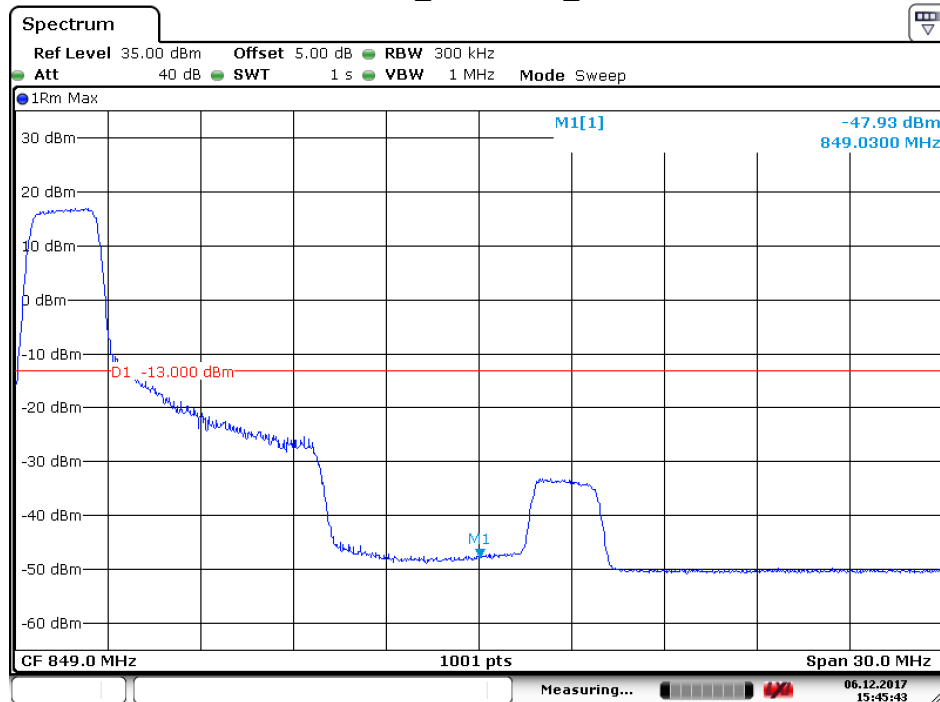
5.1.1.5.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 15:46:35

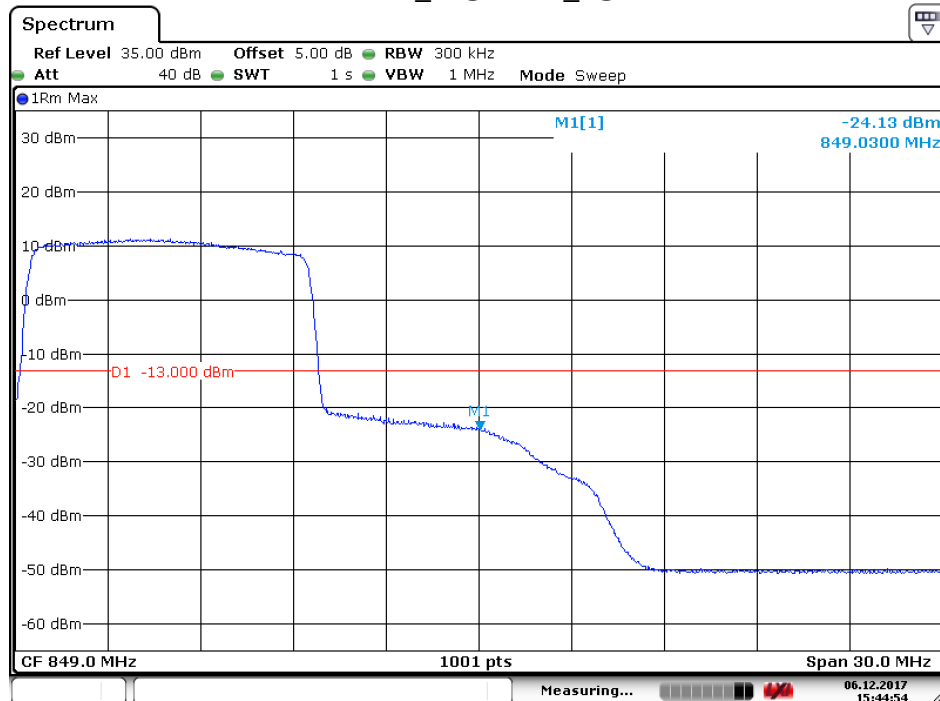


5.1.1.5.2.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 15:45:43

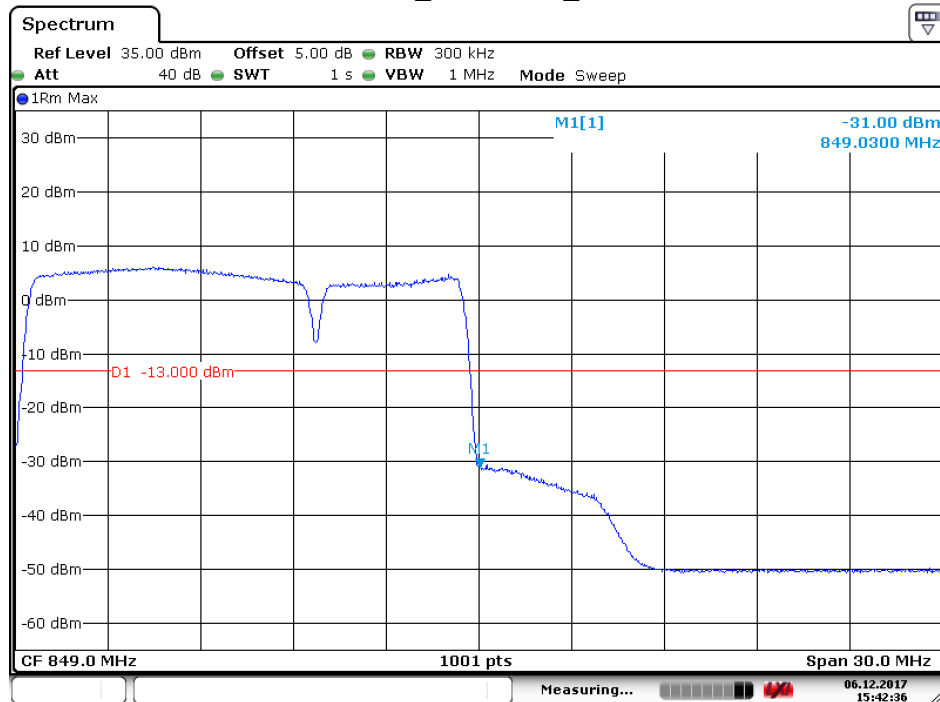
5.1.1.5.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:44:54



5.1.1.5.2.4 Test RB= PCC_50@0 SCC_25@0

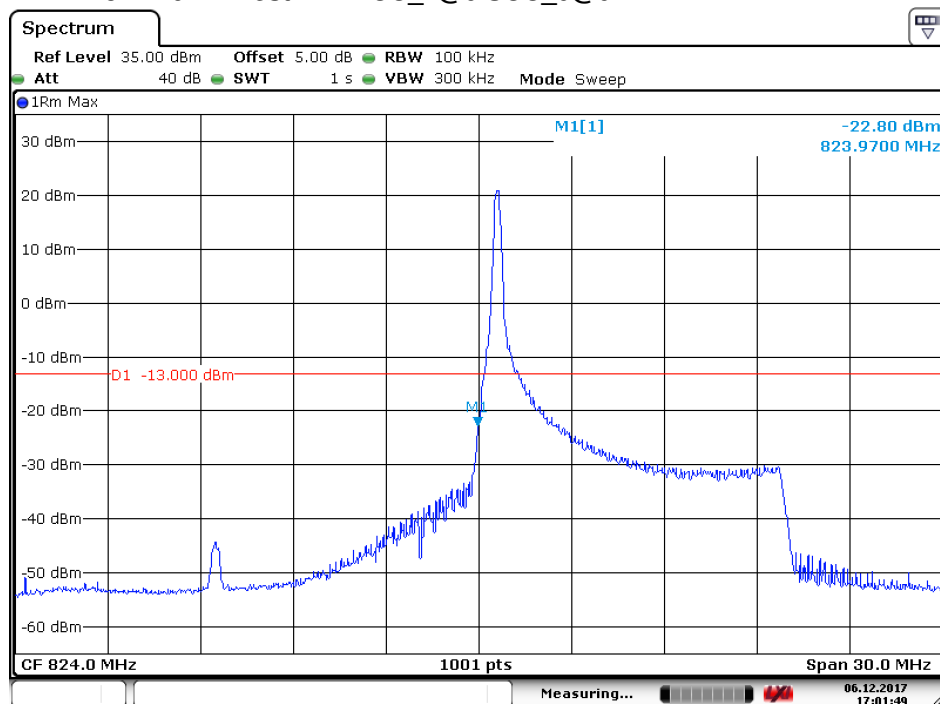


Date: 6.DEC.2017 15:42:36

5.1.1.6 Test Mode = LTE/TM3 10+5MHz

5.1.1.6.1 Test Channel = LCH

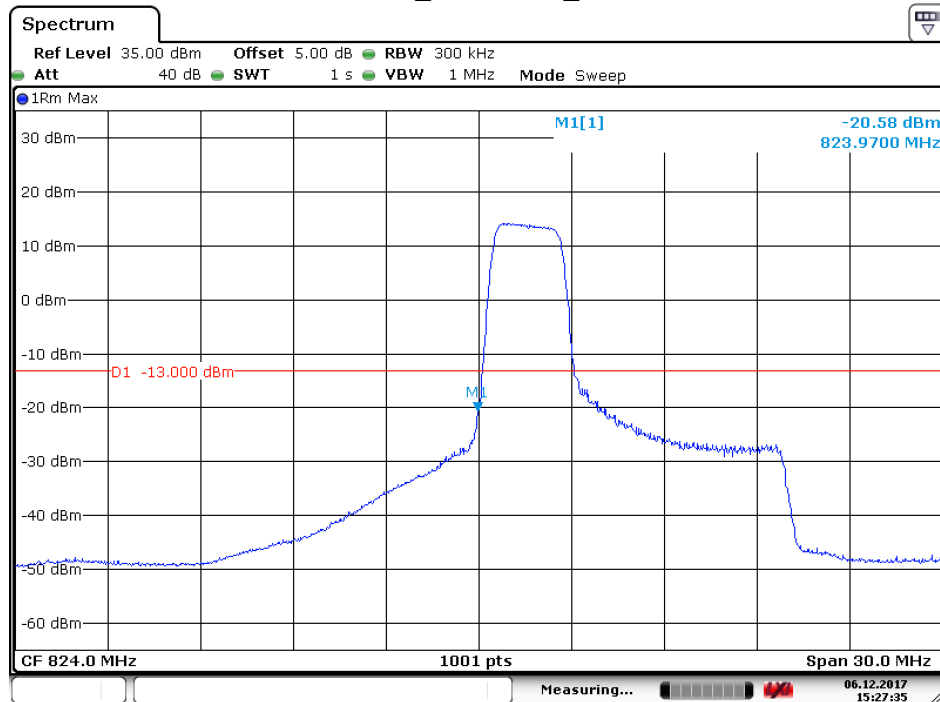
5.1.1.6.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 17:01:49

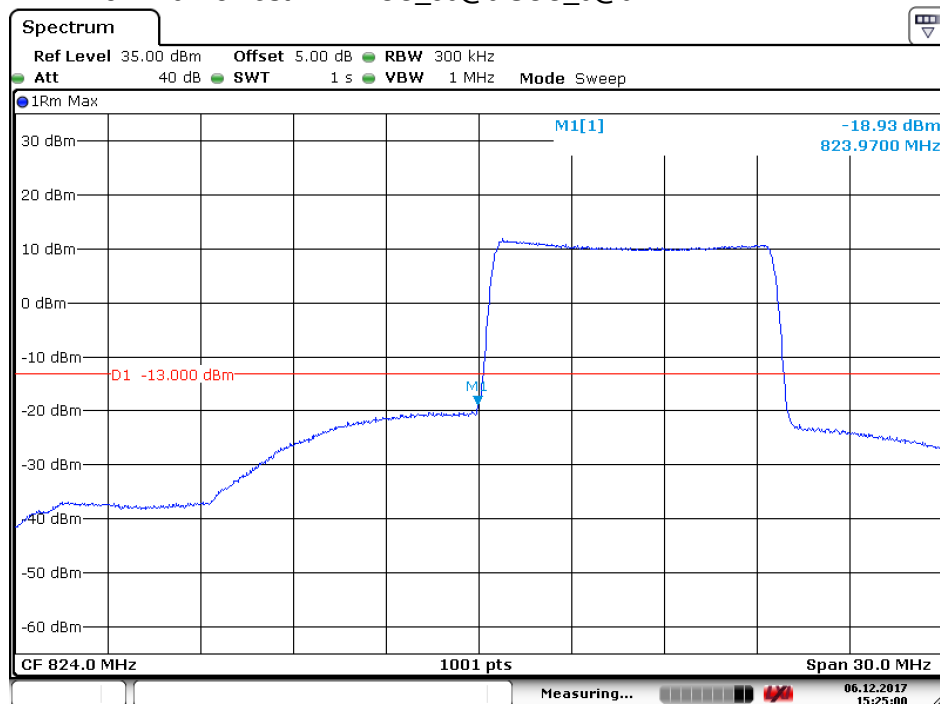


5.1.1.6.1.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 15:27:35

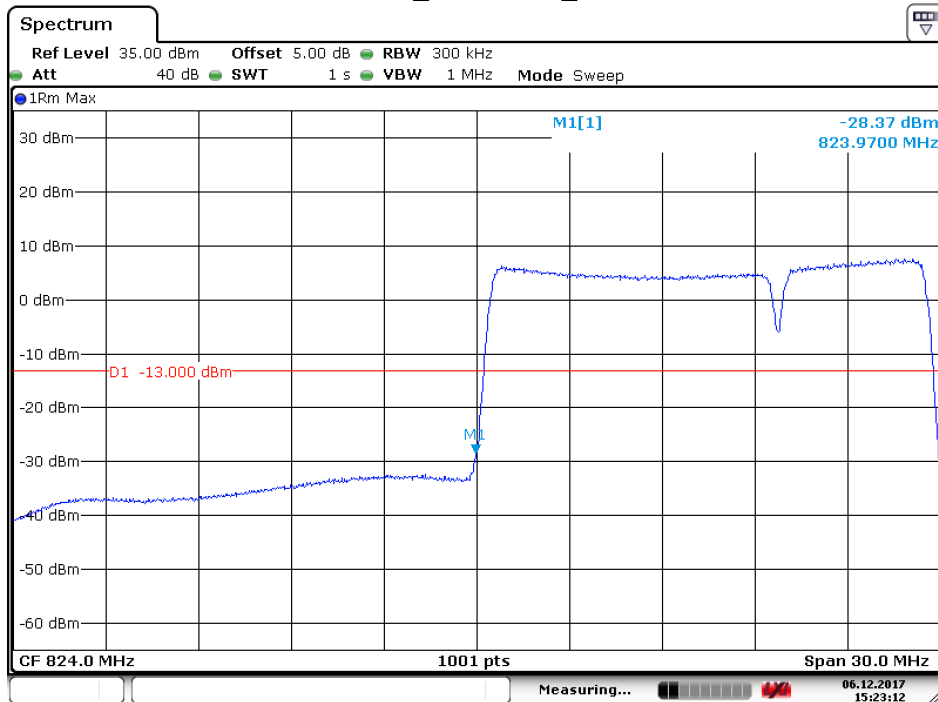
5.1.1.6.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:25:01



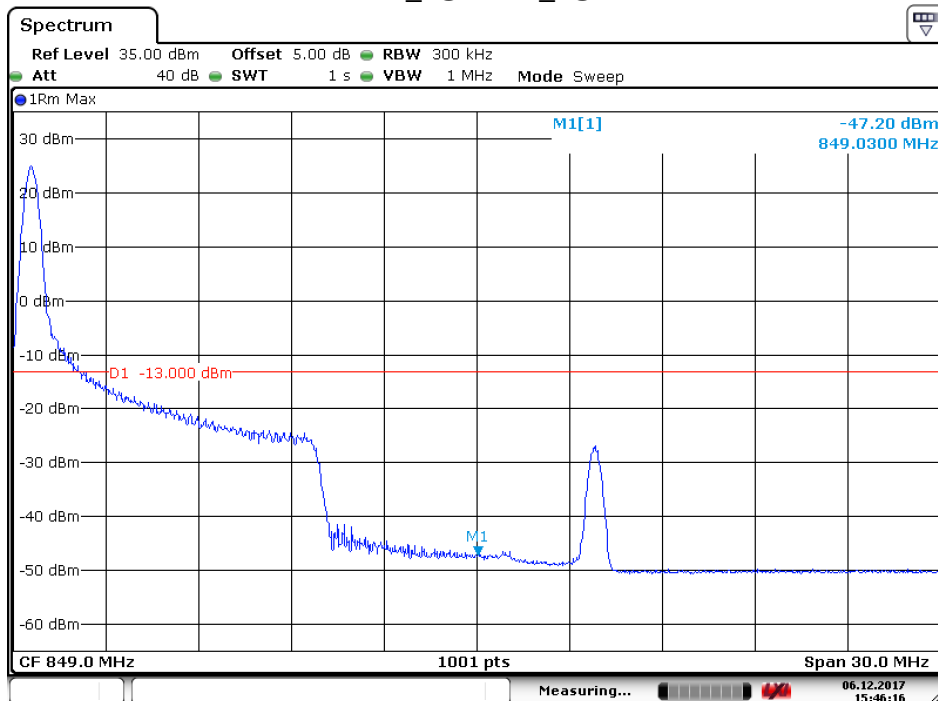
5.1.1.6.1.4 Test RB= PCC_50@0 SCC_25@0



Date: 6 DEC.2017 15:23:12

5.1.1.6.2 Test Channel = HCH

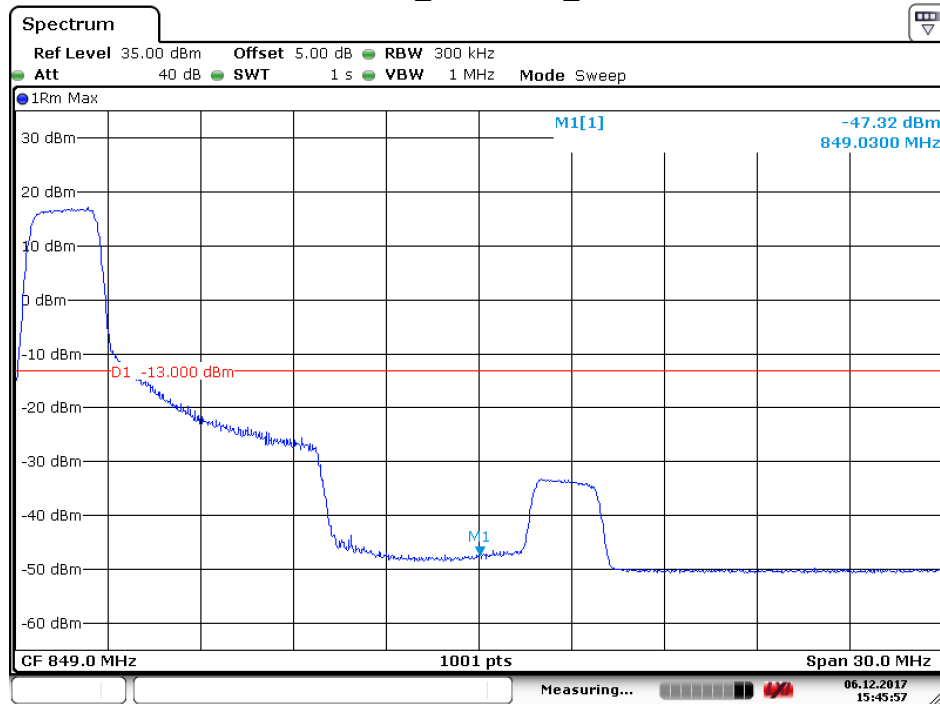
5.1.1.6.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6 DEC.2017 15:46:16

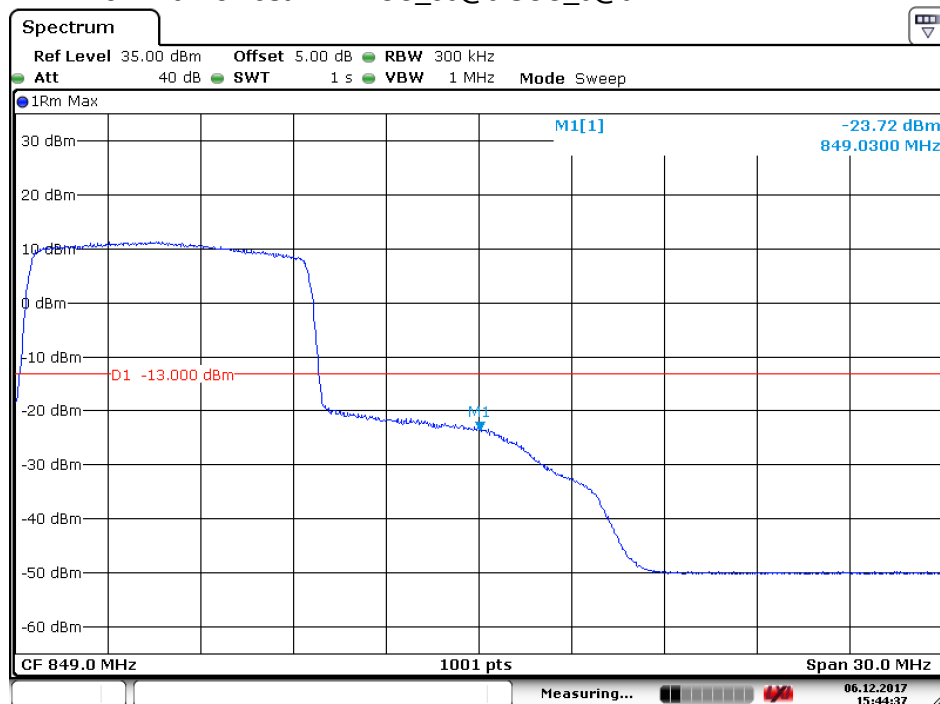


5.1.1.6.2.2 Test RB= PCC_12@0 SCC_0@0



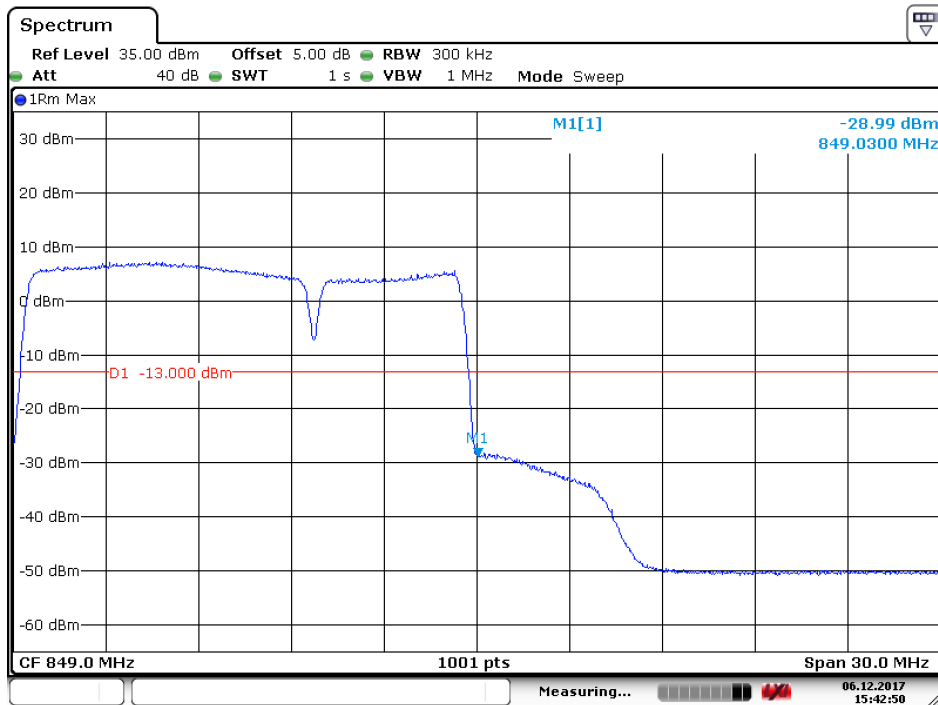
Date: 6.DEC.2017 15:45:58

5.1.1.6.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 15:44:38

5.1.1.6.2.4 Test RB= PCC_50@0 SCC_25@0

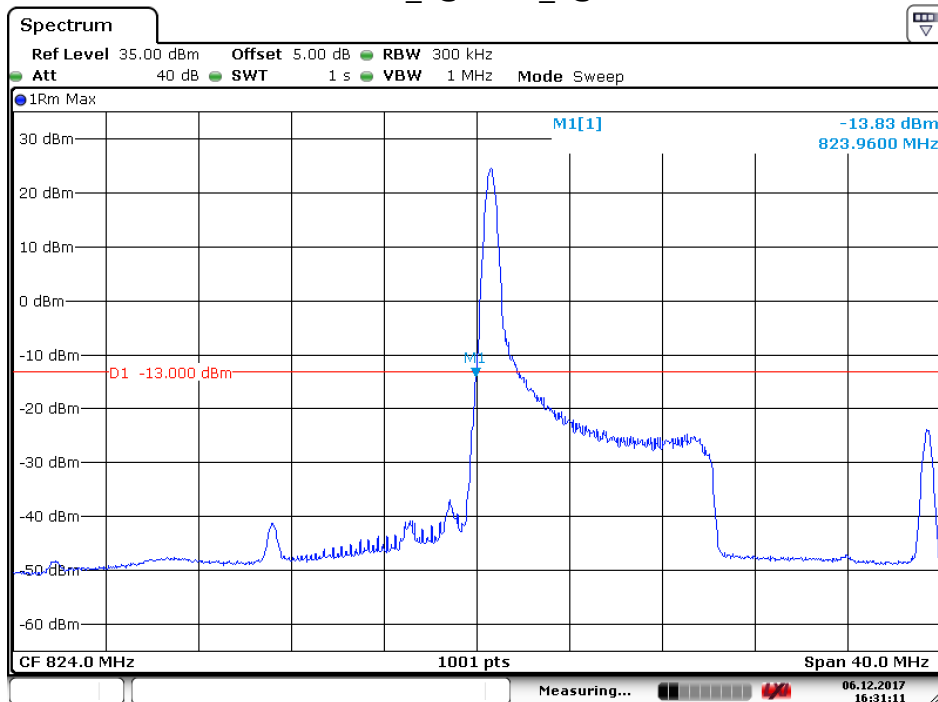


Date: 6.DEC.2017 15:42:50

5.1.1.7 Test Mode = LTE/TM1 10+10MHz

5.1.1.7.1 Test Channel = LCH

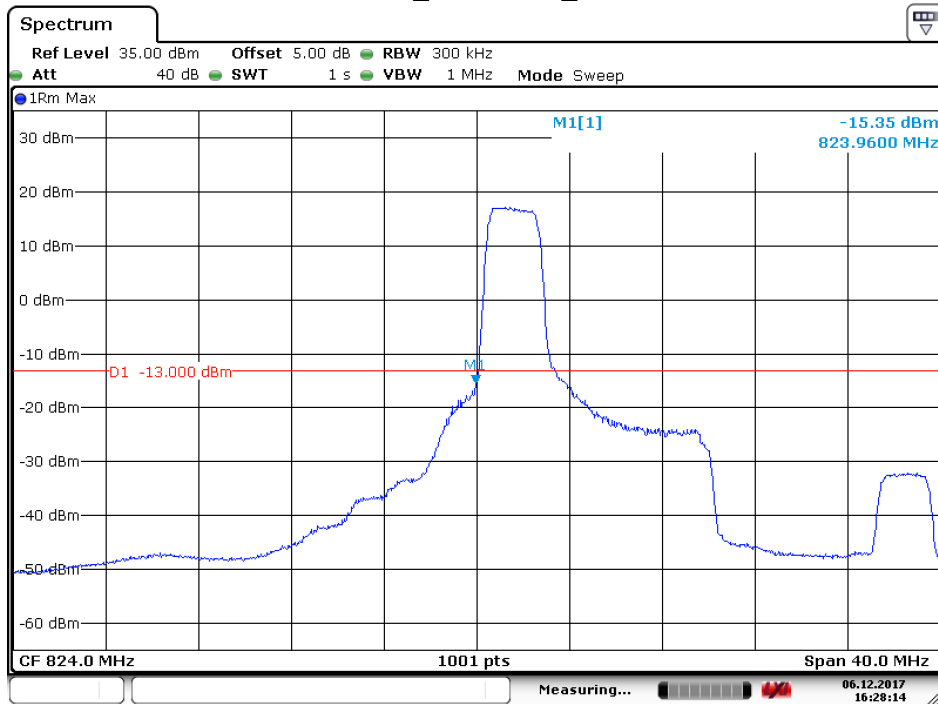
5.1.1.7.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:31:11

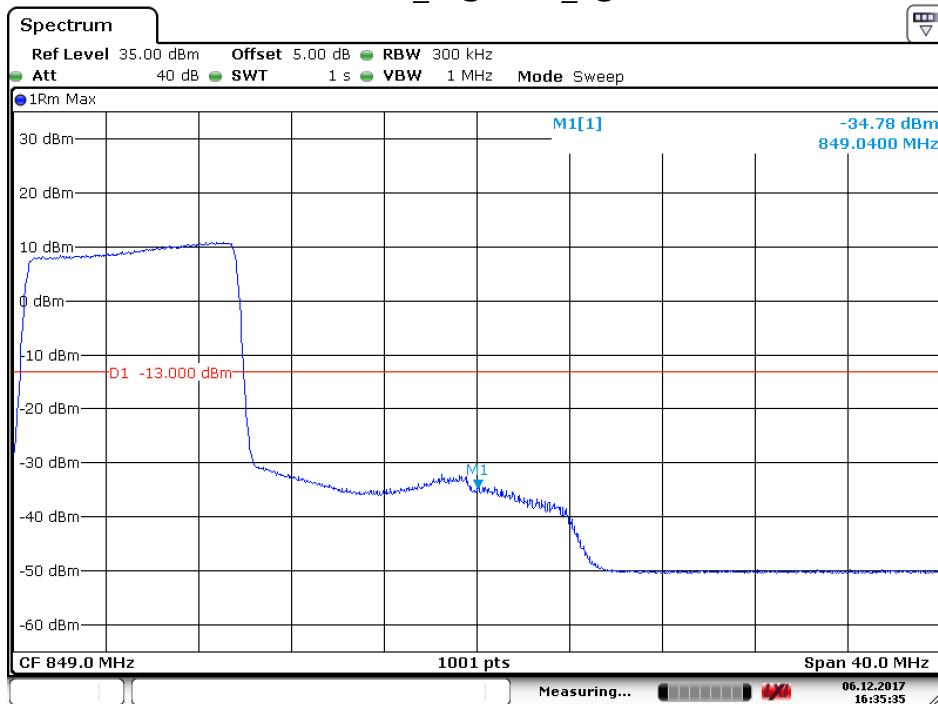


5.1.1.7.1.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 16:28:14

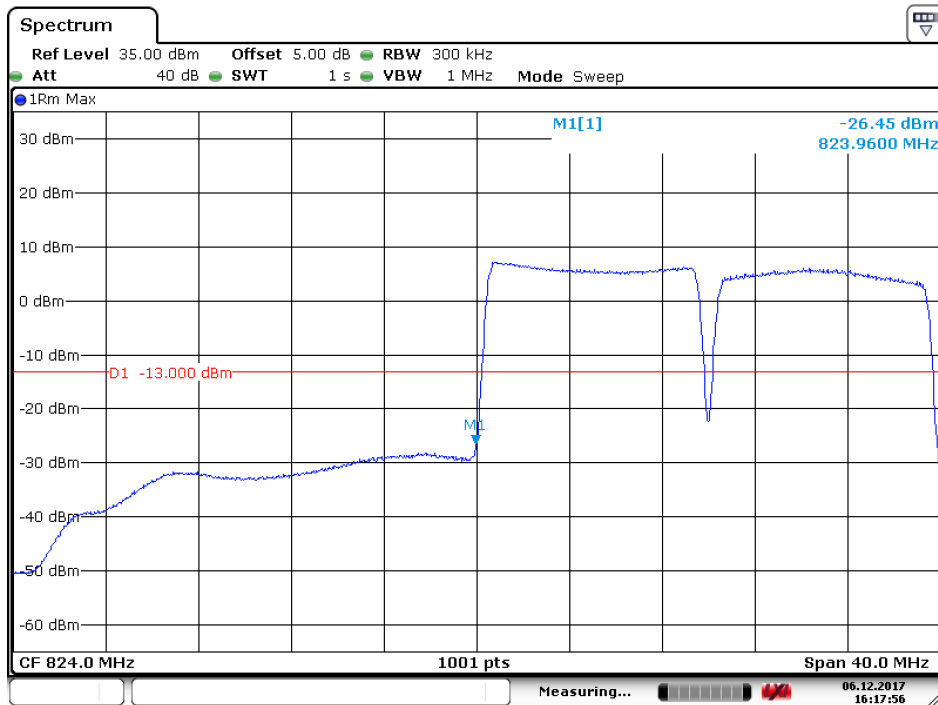
5.1.1.7.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 16:35:36



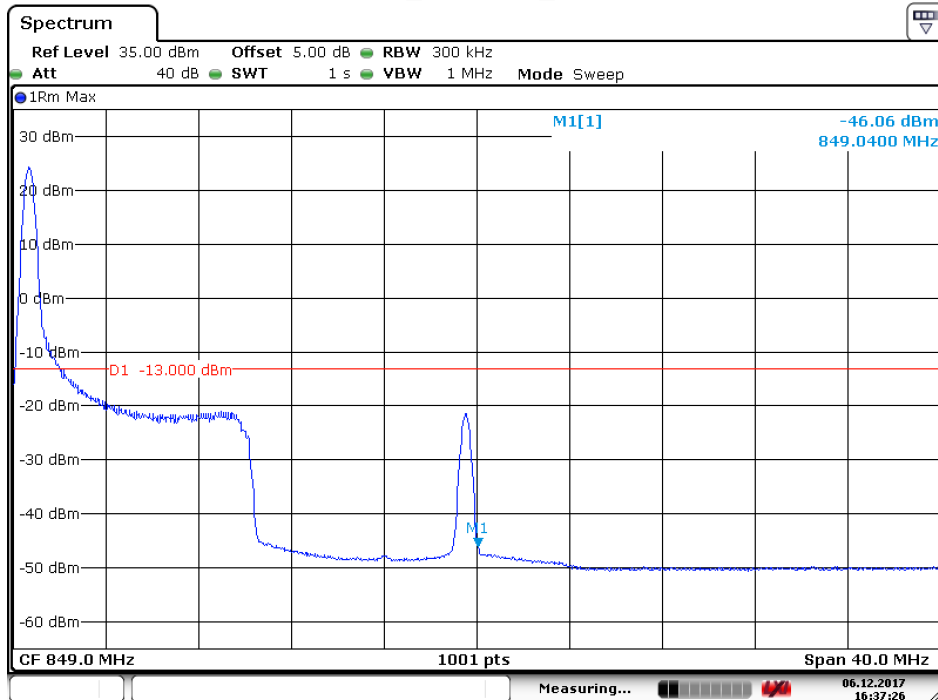
5.1.1.7.1.4 Test RB=PCC_50@0 SCC_50@0



Date: 6.DEC.2017 16:17:57

5.1.1.7.2 Test Channel = HCH

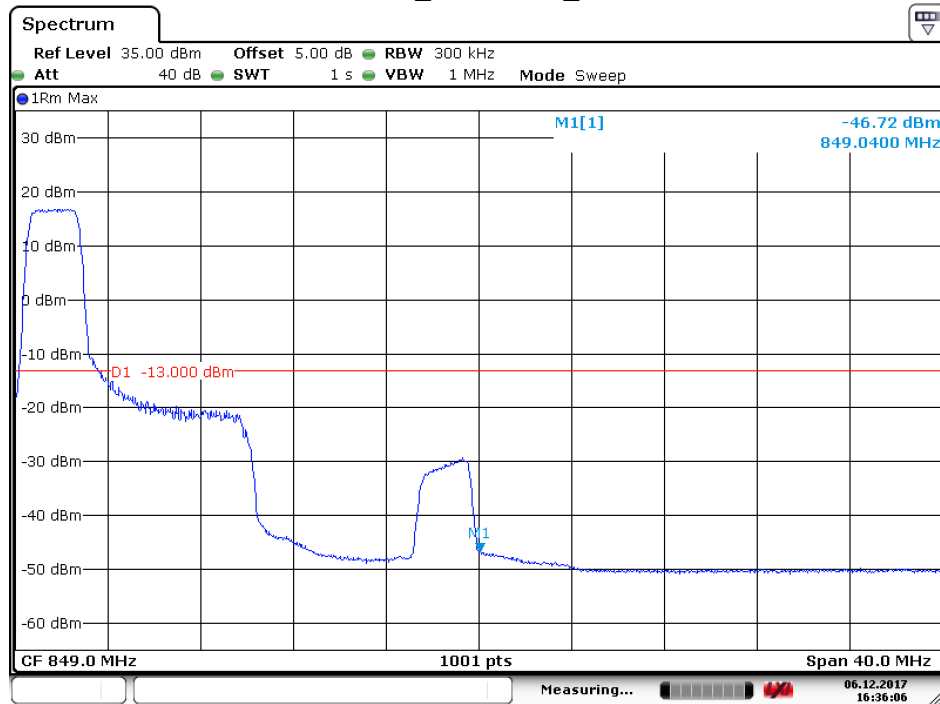
5.1.1.7.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:37:26

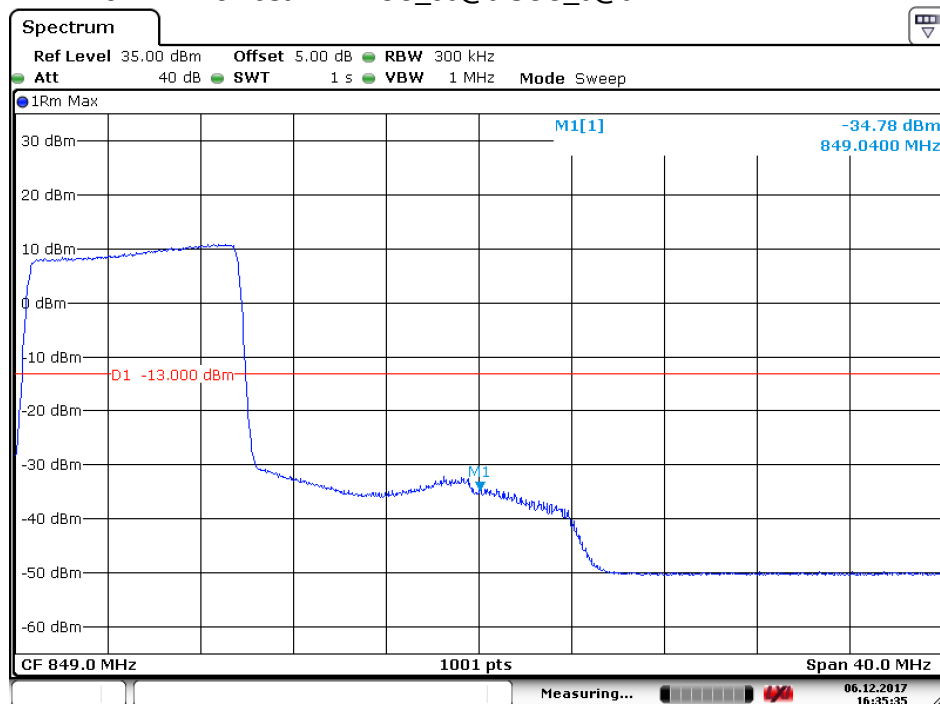


5.1.1.7.2.2 Test RB= PCC_12@0 SCC_0@0



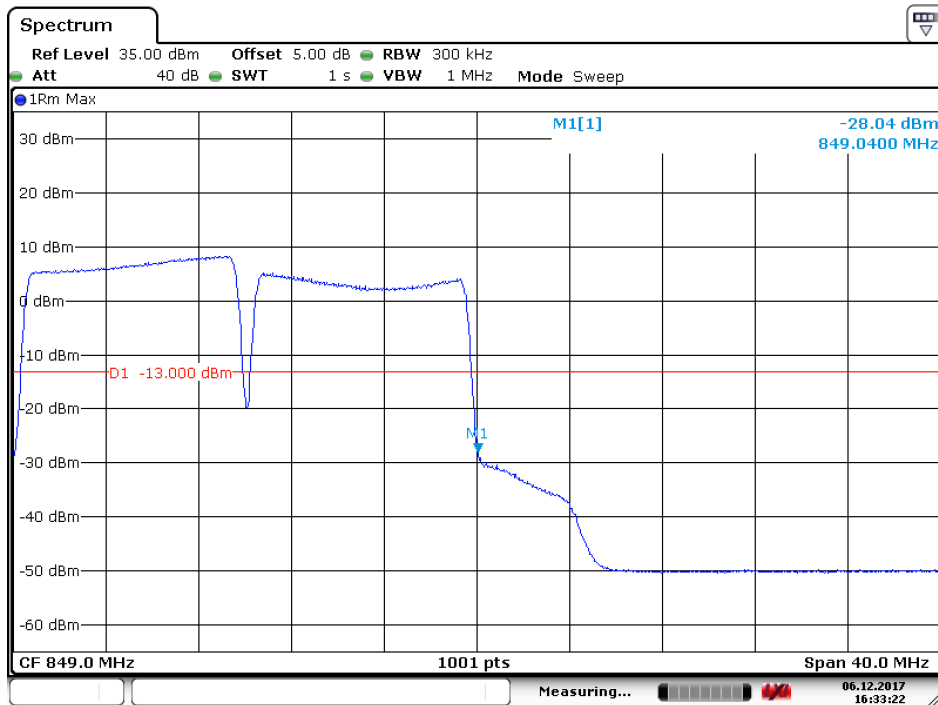
Date: 6 DEC. 2017 16:36:06

5.1.1.7.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6 DEC. 2017 16:35:36

5.1.1.7.2.4 Test RB= PCC_50@0 SCC_50@0

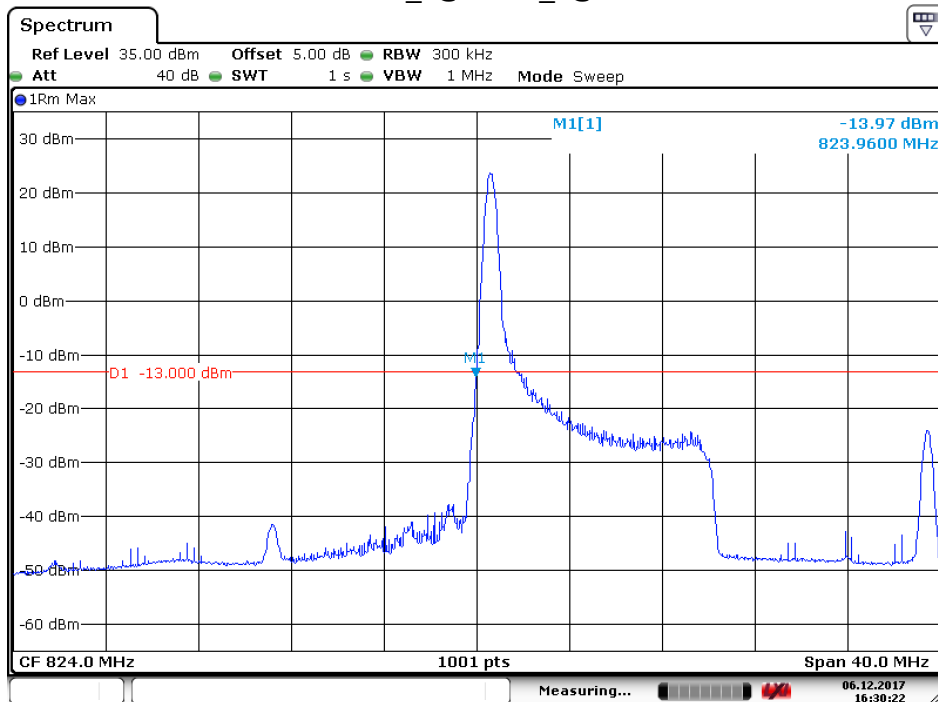


Date: 6.DEC.2017 16:33:22

5.1.1.8 Test Mode = LTE/TM2 10+10MHz

5.1.1.8.1 Test Channel = LCH

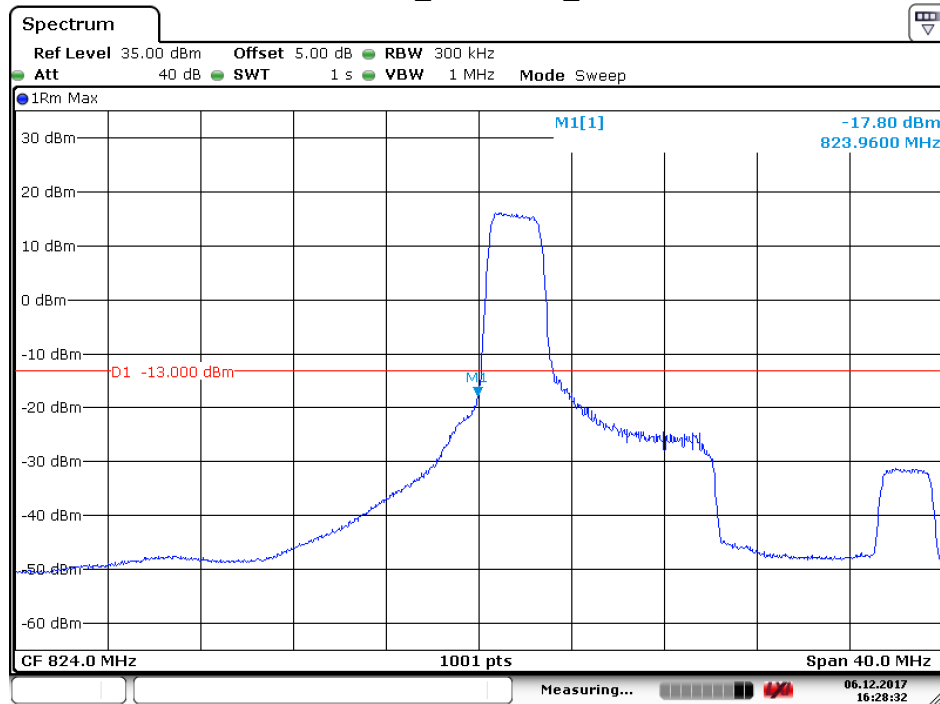
5.1.1.8.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:30:22

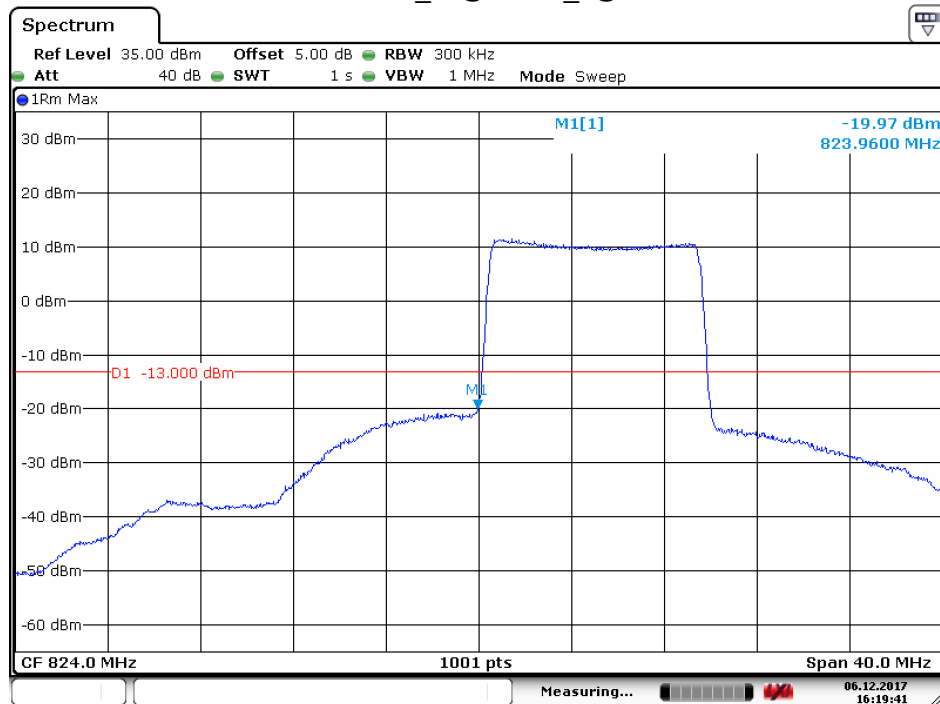


5.1.1.8.1.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 16:28:32

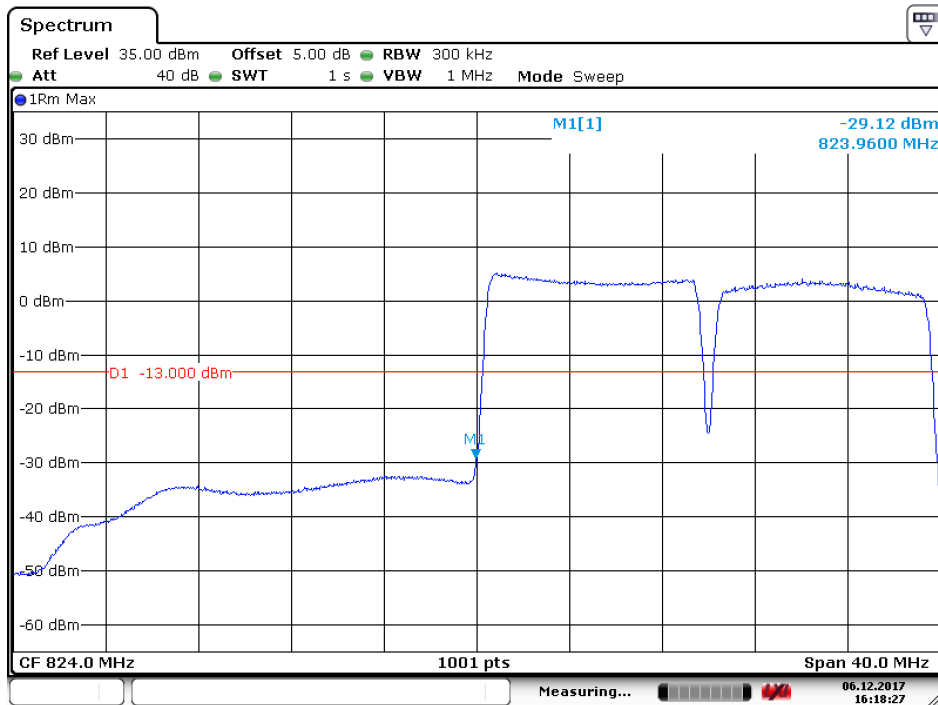
5.1.1.8.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 16:19:42



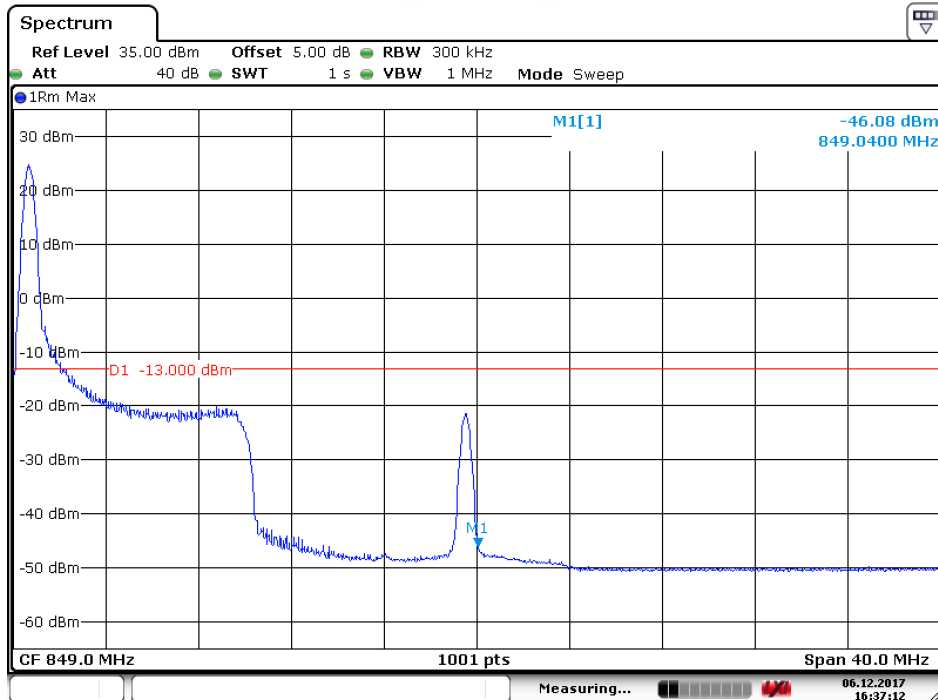
5.1.1.8.1.4 Test RB= PCC_50@0 SCC_50@0



Date: 6.DEC.2017 16:18:28

5.1.1.8.2 Test Channel = HCH

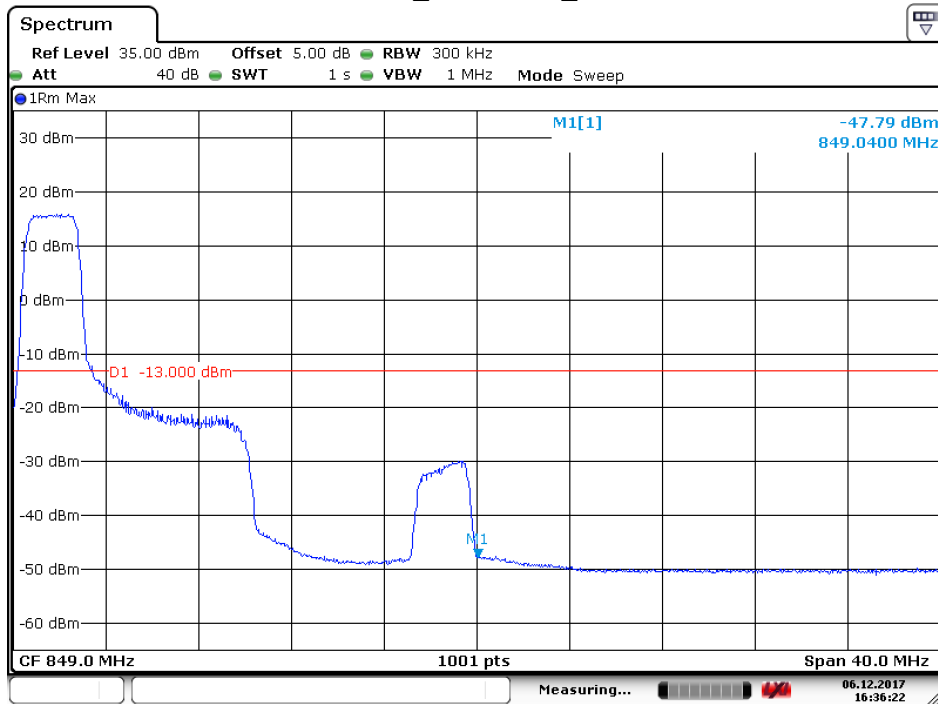
5.1.1.8.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:37:12

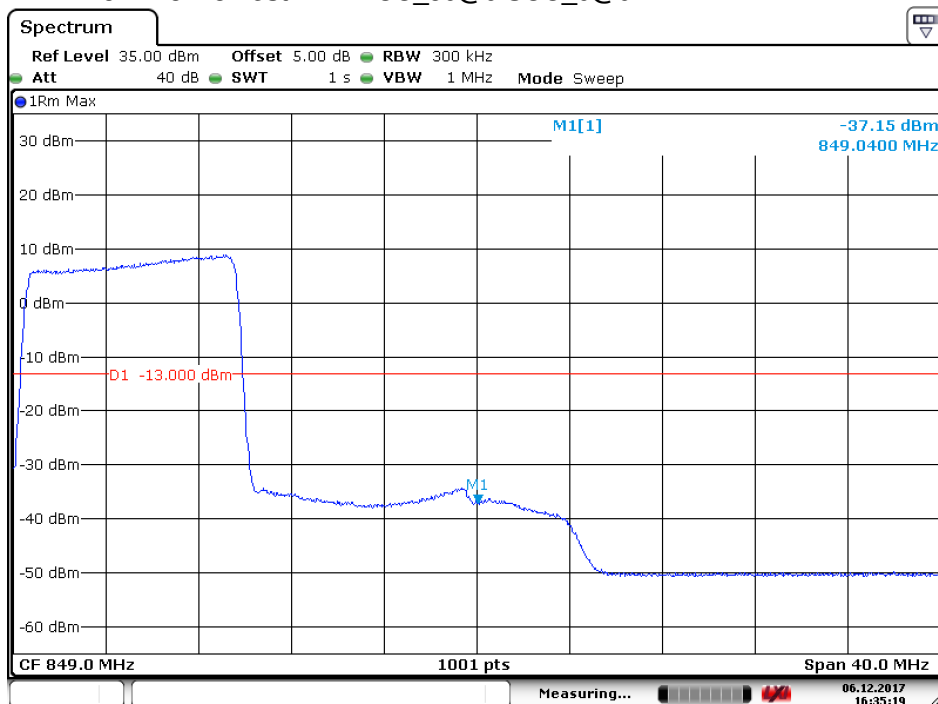


5.1.1.8.2.2 Test RB= PCC_12@0 SCC_0@0



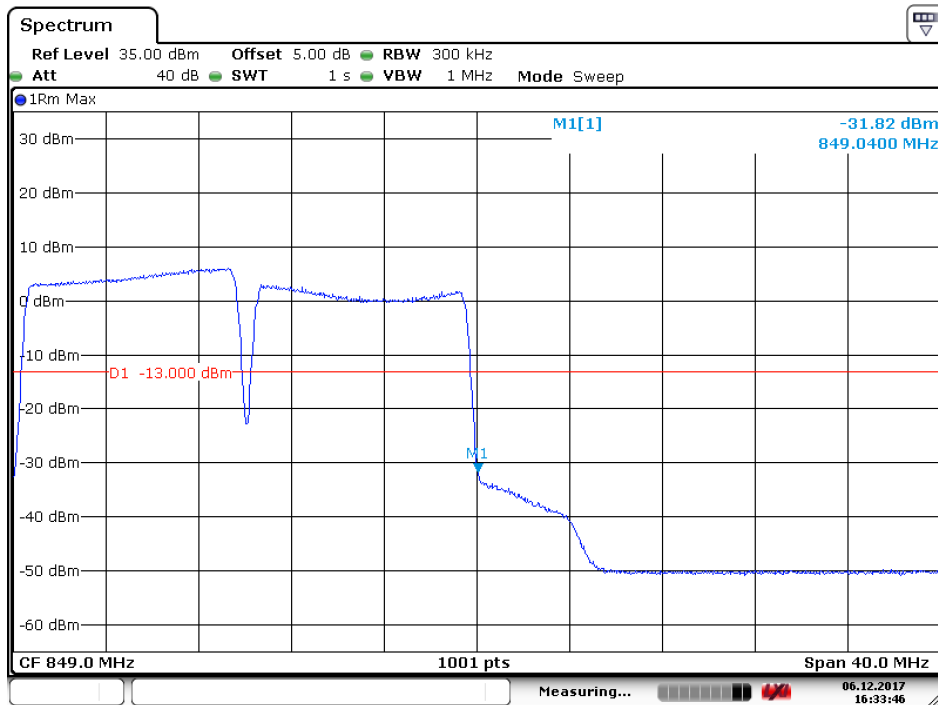
Date: 6 DEC. 2017 16:36:23

5.1.1.8.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6 DEC. 2017 16:35:19

5.1.1.8.2.4 Test RB= PCC_50@0 SCC_50@0

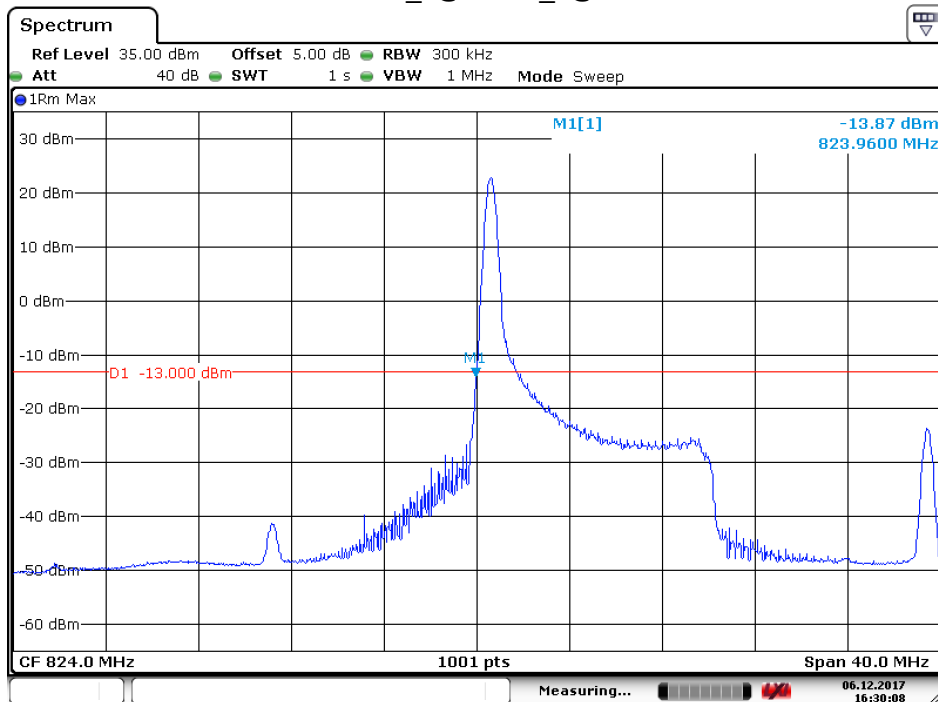


Date: 6.DEC.2017 16:33:46

5.1.1.9 Test Mode = LTE/TM3 10+10MHz

5.1.1.9.1 Test Channel = LCH

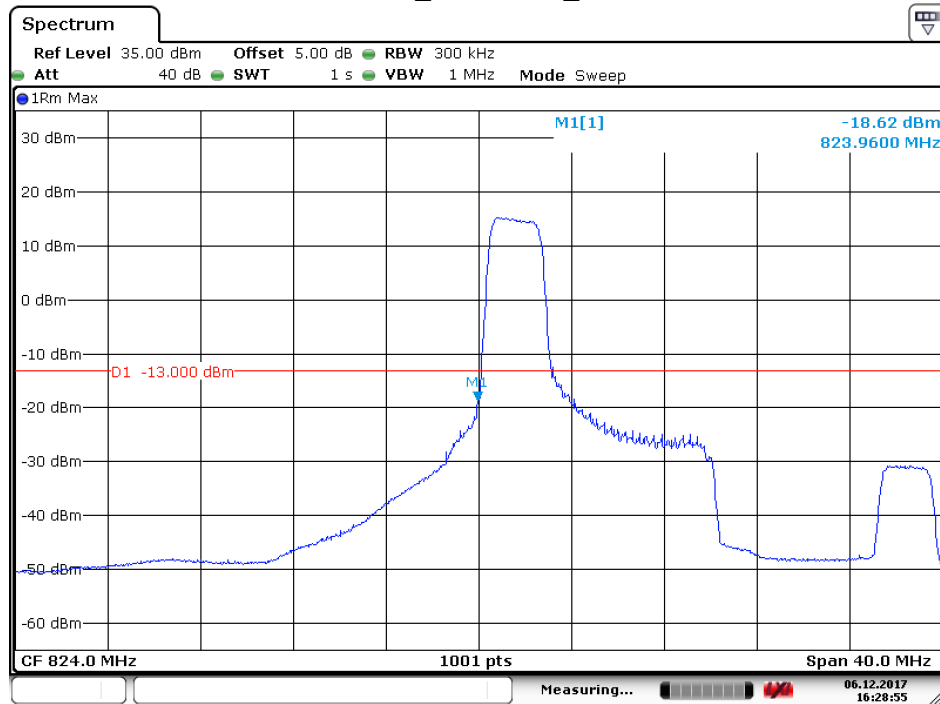
5.1.1.9.1.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:30:08

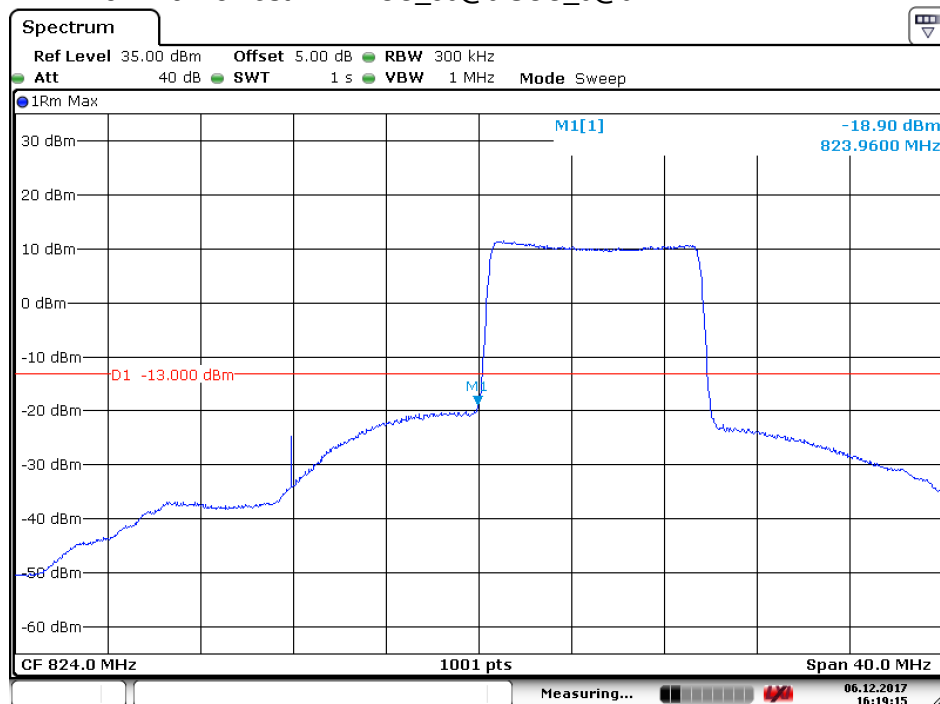


5.1.1.9.1.2 Test RB= PCC_12@0 SCC_0@0



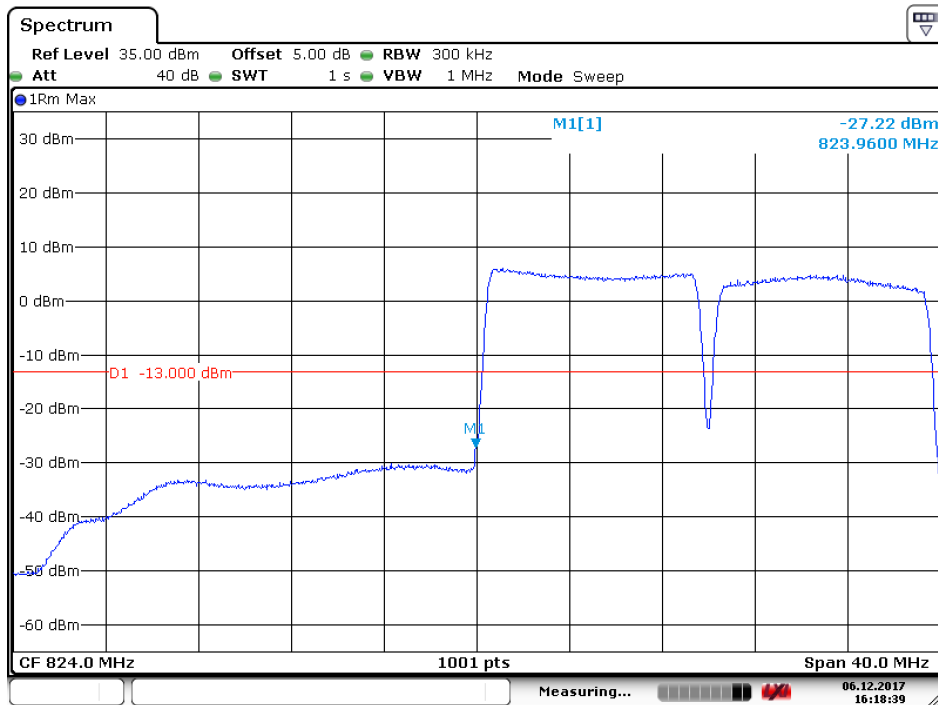
Date: 6.DEC.2017 16:28:55

5.1.1.9.1.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 16:19:15

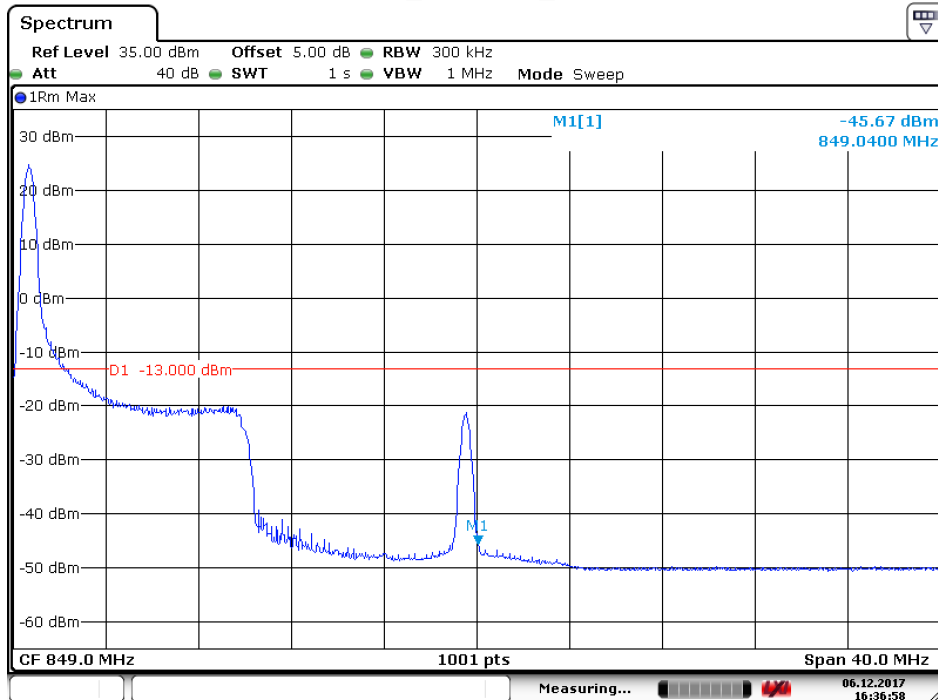
5.1.1.9.1.4 Test RB= PCC_50@0 SCC_50@0



Date: 6.DEC.2017 16:18:40

5.1.1.9.2 Test Channel = HCH

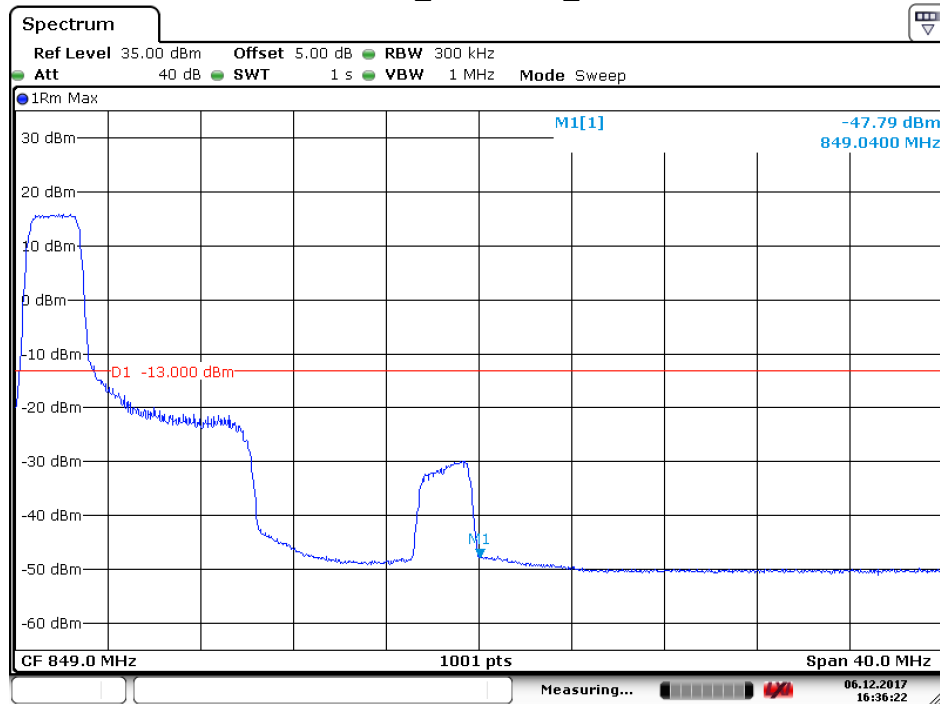
5.1.1.9.2.1 Test RB=PCC_1@0 SCC_0@0



Date: 6.DEC.2017 16:36:58

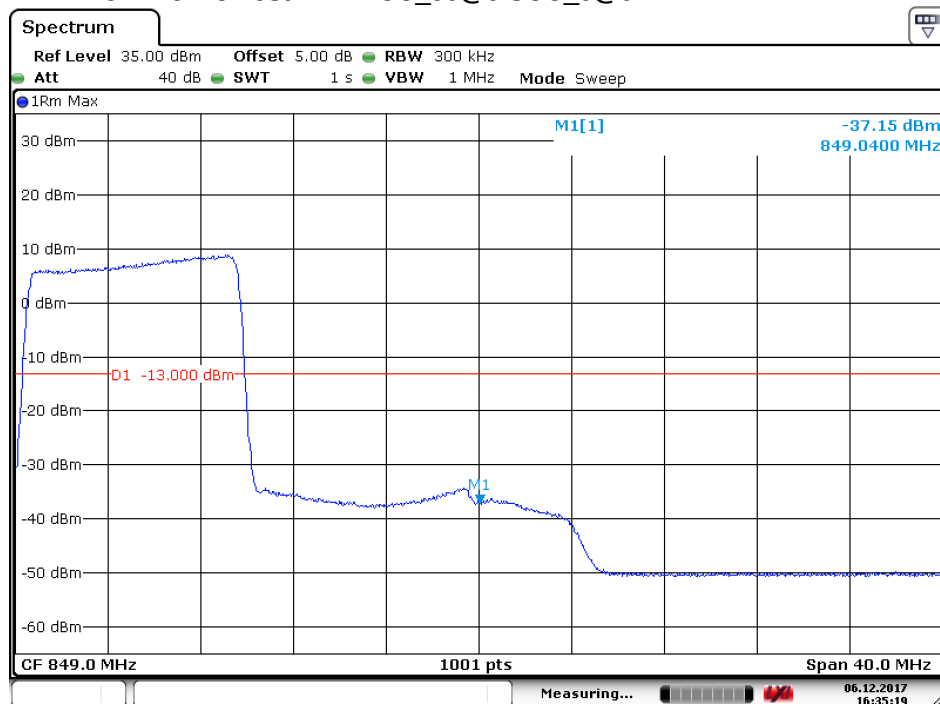


5.1.1.9.2.2 Test RB= PCC_12@0 SCC_0@0



Date: 6.DEC.2017 16:36:23

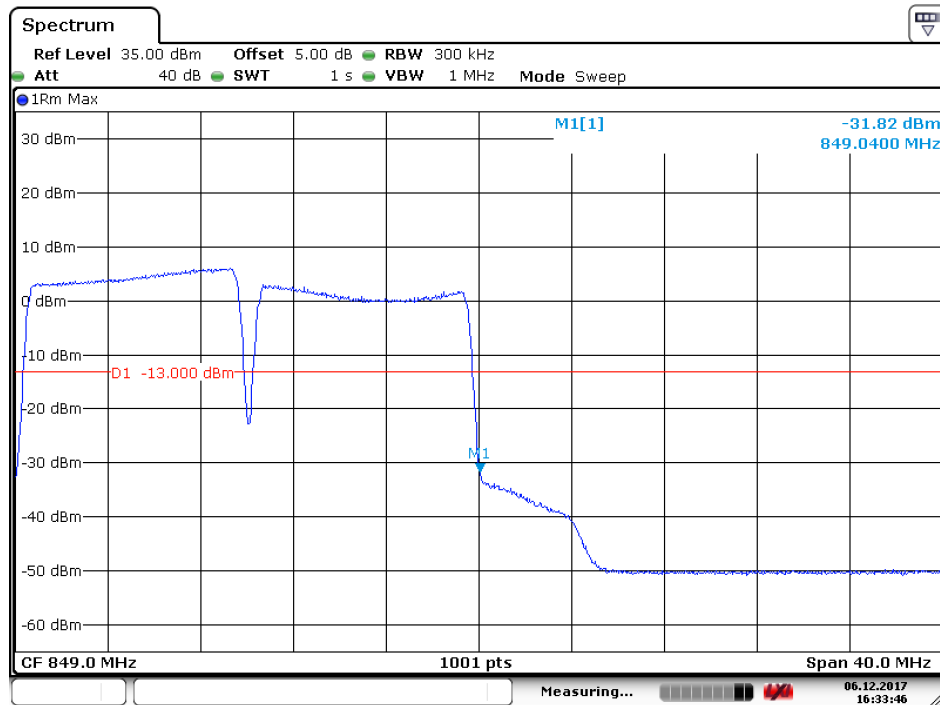
5.1.1.9.2.3 Test RB= PCC_50@0 SCC_0@0



Date: 6.DEC.2017 16:35:19



5.1.1.9.2.4 Test RB= PCC_50@0 SCC_50@0



Date: 6.DEC.2017 16:33:46

6 Spurious Emission at Antenna Terminal

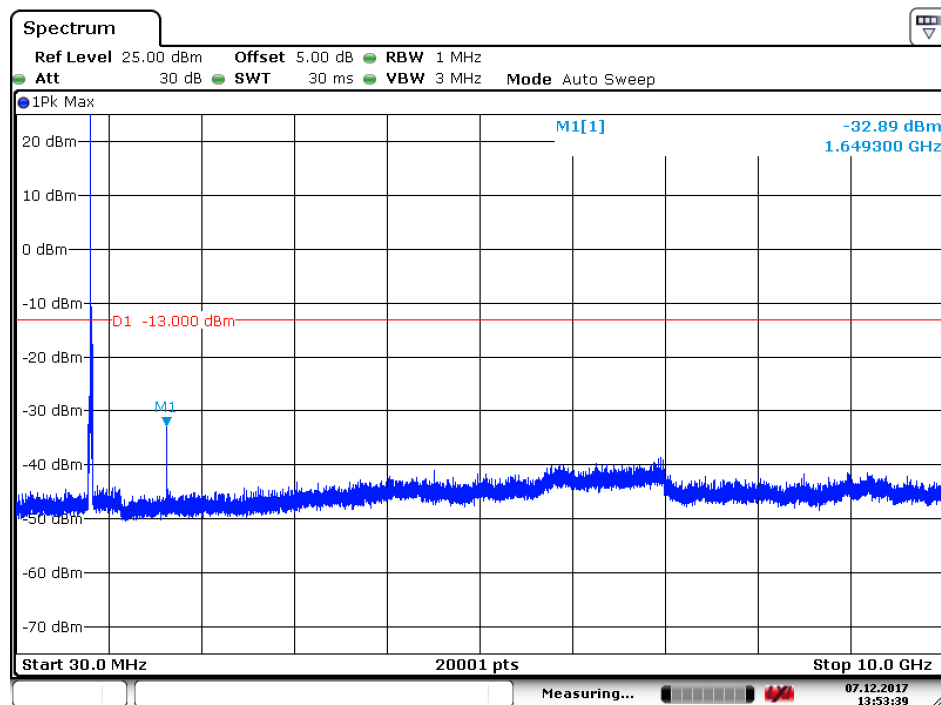
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k \cdot (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1.1 Test Mode = LTE / TM1 5+10MHz

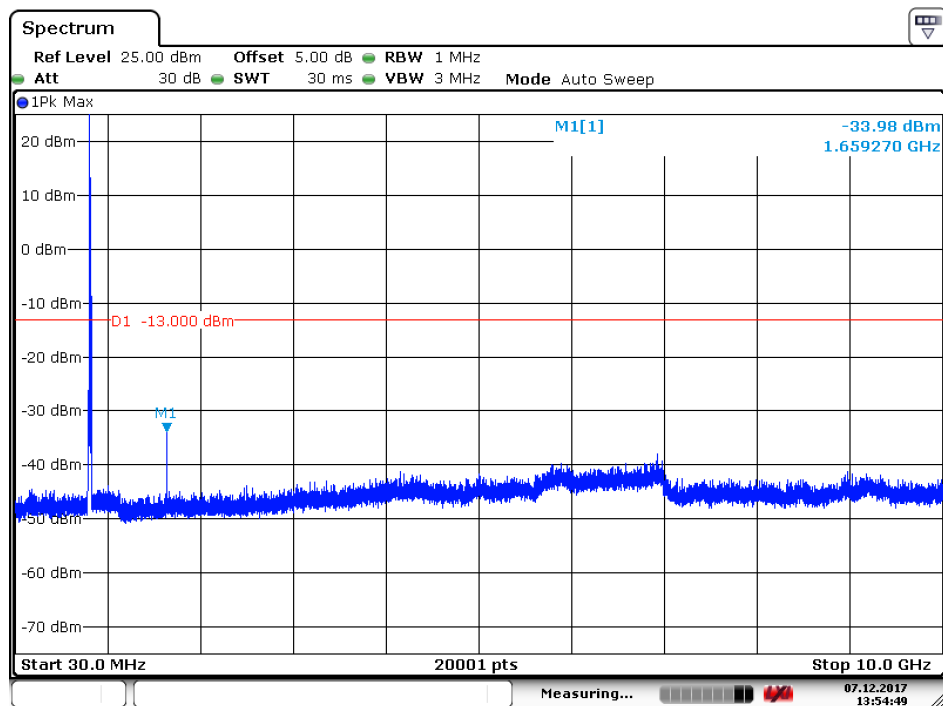
6.1.1.1.1 Test Channel = LCH



Date: 7.DEC.2017 13:53:40

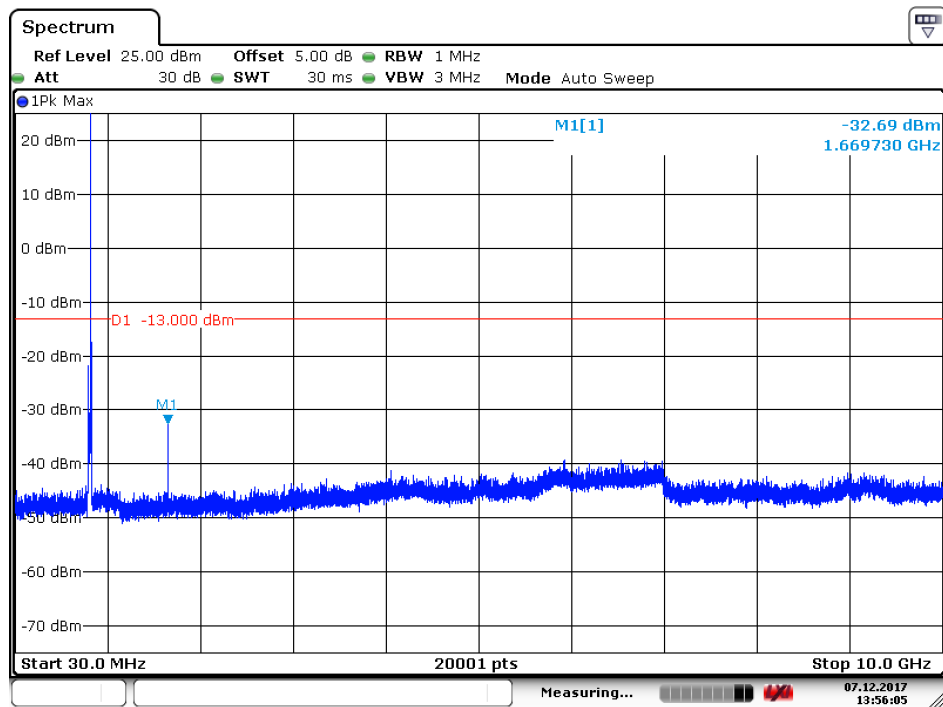


6.1.1.1.2 Test Channel = MCH



Date: 7.DEC.2017 13:54:50

6.1.1.1.3 Test Channel = HCH

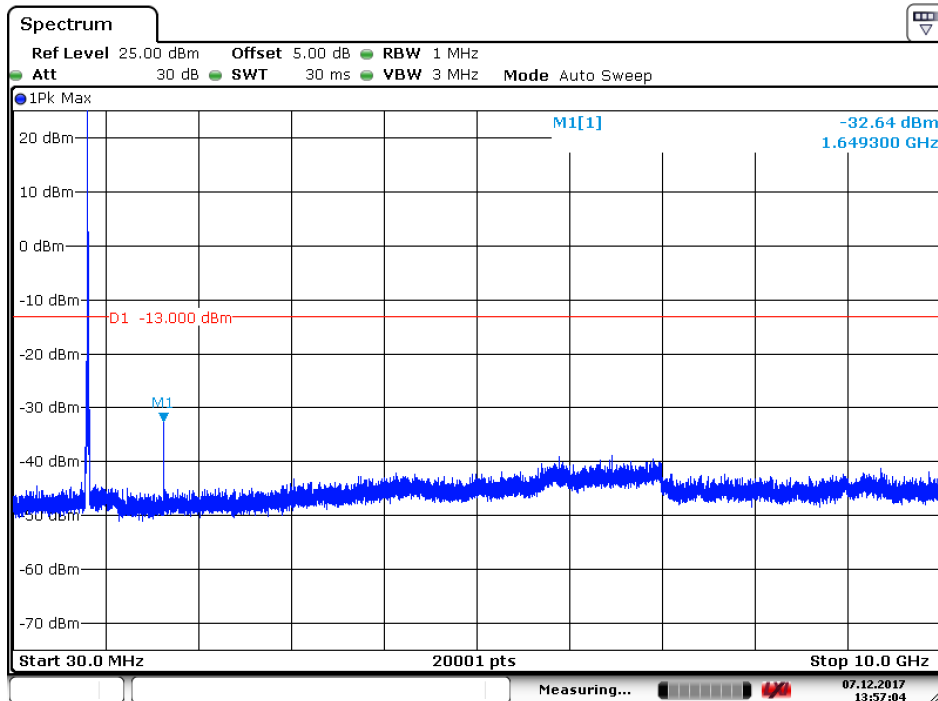


Date: 7.DEC.2017 13:56:05



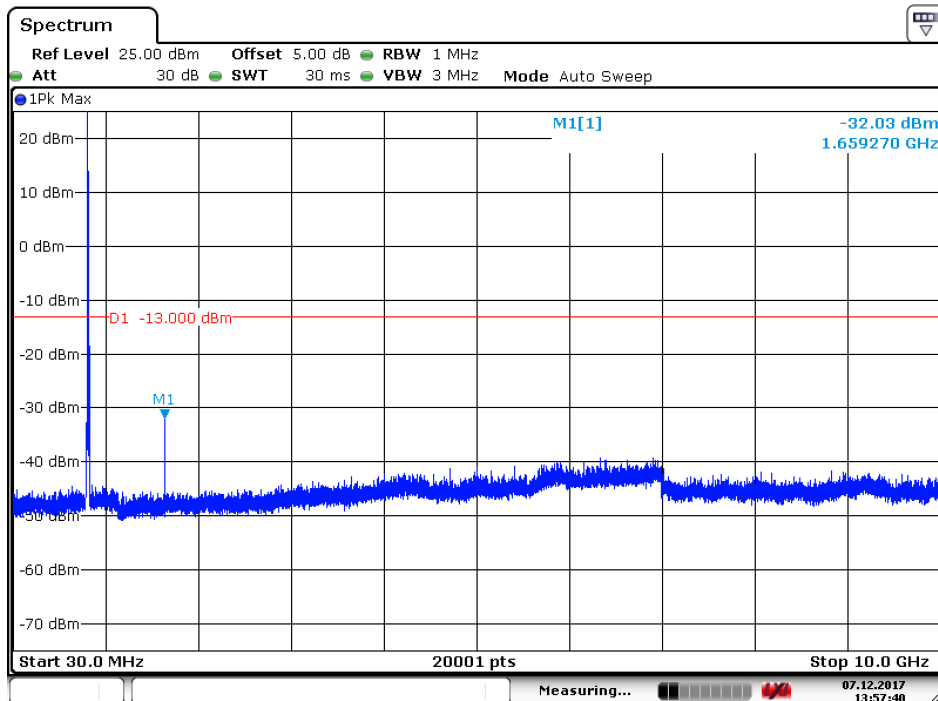
6.1.1.2 Test Mode = LTE / TM1 10+5MHz

6.1.1.2.1 Test Channel = LCH



Date: 7.DEC.2017 13:57:04

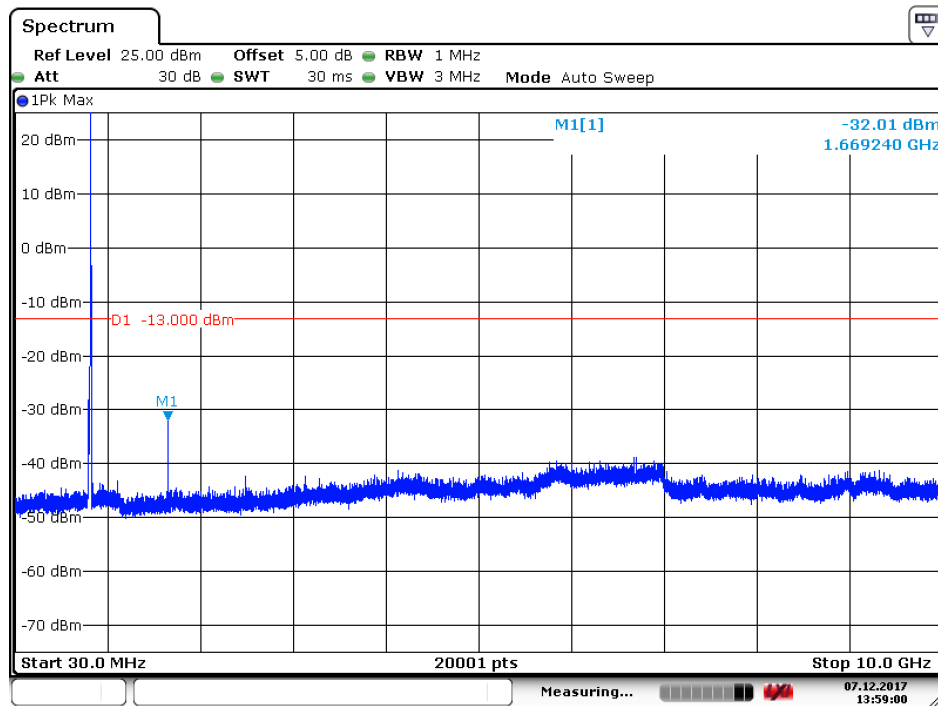
6.1.1.2.2 Test Channel = MCH



Date: 7.DEC.2017 13:57:40



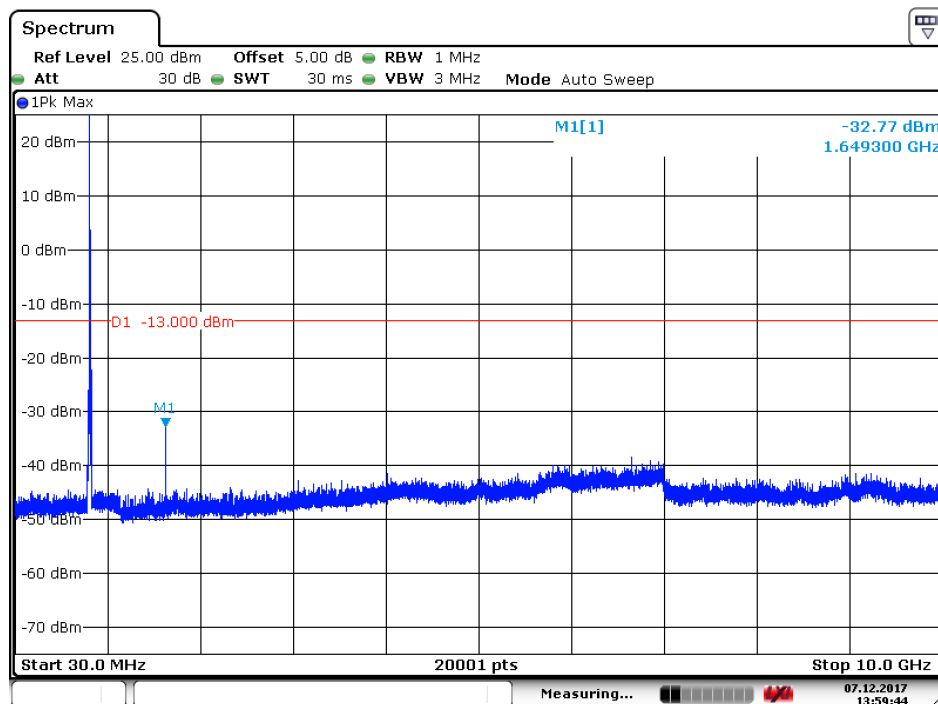
6.1.1.2.3 Test Channel = HCH



Date: 7.DEC.2017 13:59:00

6.1.1.3 Test Mode = LTE / TM1 10+10MHz

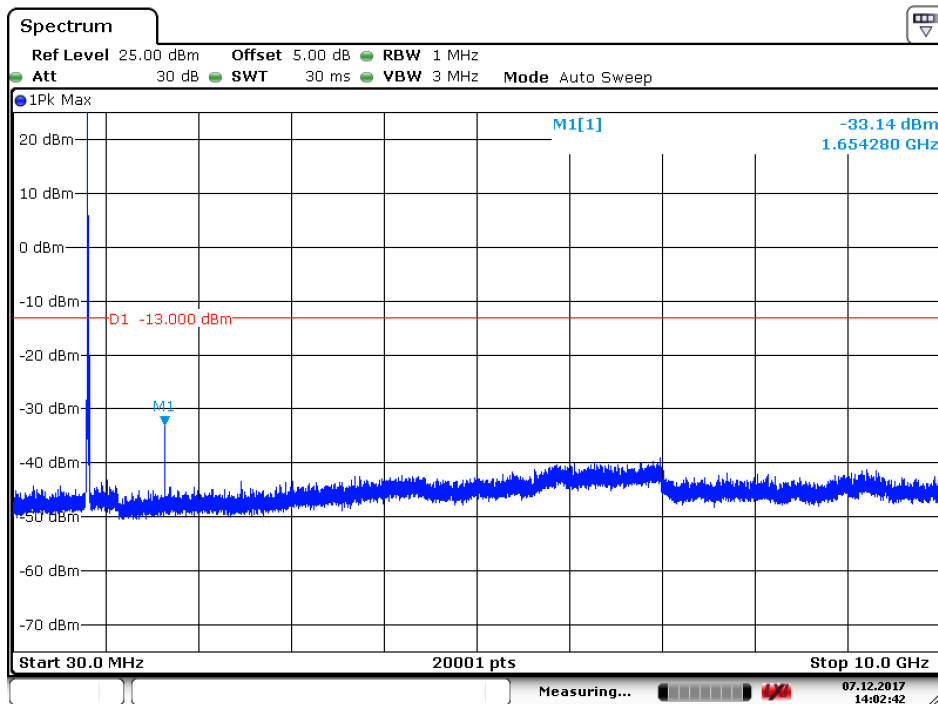
6.1.1.3.1 Test Channel = LCH



Date: 7.DEC.2017 13:59:45

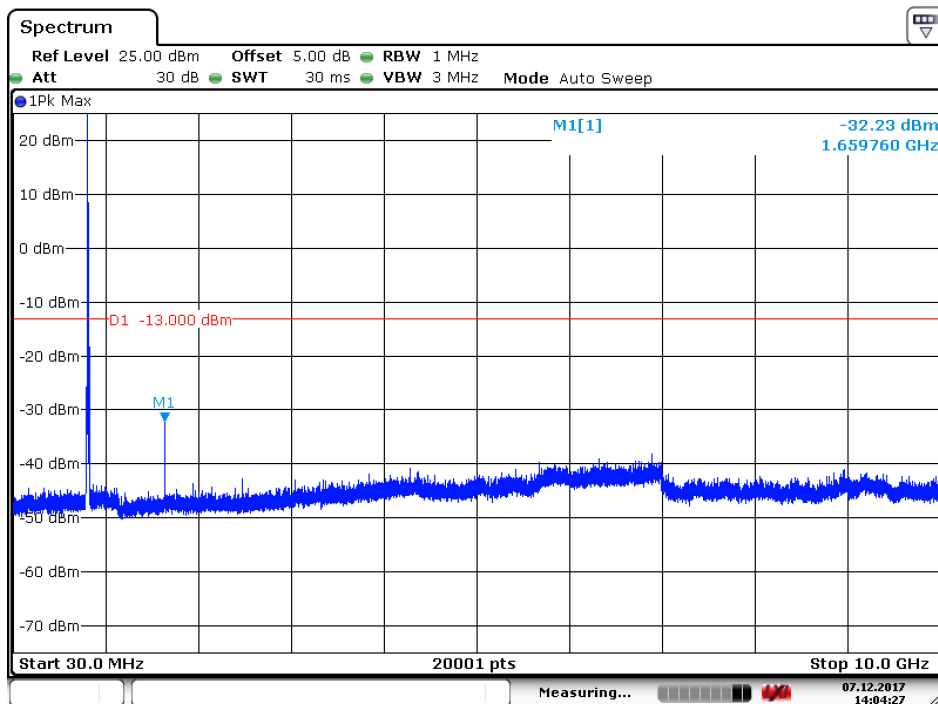


6.1.1.3.2 Test Channel = MCH



Date: 7.DEC.2017 14:02:42

6.1.1.3.3 Test Channel = HCH



Date: 7.DEC.2017 14:04:28



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band5

7.1.1.1 Test Mode =LTE/TM1 10+10MHz RB1#0

Diversity antenna

7.1.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1656.500 | -64.95 | -13.00 | -51.95 | Vertical |
| 2725.000 | -57.82 | -13.00 | -44.82 | Vertical |
| 3812.662 | -67.87 | -13.00 | -54.87 | Vertical |
| 1684.500 | -64.63 | -13.00 | -51.63 | Horizontal |
| 2741.000 | -57.44 | -13.00 | -44.44 | Horizontal |
| 4118.325 | -67.43 | -13.00 | -54.43 | Horizontal |

7.1.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1024.500 | -63.80 | -13.00 | -50.80 | Vertical |
| 3381.225 | -68.98 | -13.00 | -55.98 | Vertical |
| 5620.800 | -66.50 | -13.00 | -53.50 | Vertical |
| 1192.500 | -67.12 | -13.00 | -54.12 | Horizontal |
| 2780.500 | -57.16 | -13.00 | -44.16 | Horizontal |
| 4879.312 | -66.42 | -13.00 | -53.42 | Horizontal |

7.1.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1065.000 | -63.68 | -13.00 | -50.68 | Vertical |
| 2881.000 | -57.15 | -13.00 | -44.15 | Vertical |
| 4968.037 | -66.49 | -13.00 | -53.49 | Vertical |
| 1103.000 | -66.55 | -13.00 | -53.55 | Horizontal |
| 4206.562 | -67.08 | -13.00 | -54.08 | Horizontal |
| 6093.675 | -65.59 | -13.00 | -52.59 | Horizontal |

Main antenna

7.1.1.1.4 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1649.000 | -63.34 | -13.00 | -50.34 | Vertical |
| 2782.500 | -57.69 | -13.00 | -44.69 | Vertical |
| 4381.087 | -67.11 | -13.00 | -54.11 | Vertical |
| 1649.000 | -62.03 | -13.00 | -49.03 | Horizontal |
| 2812.000 | -56.85 | -13.00 | -43.85 | Horizontal |
| 3817.050 | -67.99 | -13.00 | -54.99 | Horizontal |



7.1.1.1.5 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1623.500 | -65.24 | -13.00 | -52.24 | Vertical |
| 2799.000 | -57.36 | -13.00 | -44.36 | Vertical |
| 5034.337 | -66.44 | -13.00 | -53.44 | Vertical |
| 1755.000 | -53.67 | -13.00 | -40.67 | Horizontal |
| 2800.000 | -56.84 | -13.00 | -43.84 | Horizontal |
| 4273.350 | -66.70 | -13.00 | -53.70 | Horizontal |

7.1.1.1.6 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 1763.500 | -54.83 | -13.00 | -41.83 | Vertical |
| 2662.500 | -57.43 | -13.00 | -44.43 | Vertical |
| 4977.787 | -66.51 | -13.00 | -53.51 | Vertical |
| 1753.000 | -53.34 | -13.00 | -40.34 | Horizontal |
| 2684.000 | -57.46 | -13.00 | -44.46 | Horizontal |
| 4203.150 | -67.12 | -13.00 | -54.12 | Horizontal |

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band5 | LTE/TM1 10+10MHz | LCH | TN | VL | -2.36 | -0.00285 | PASS |
| | | | | VN | 1.76 | 0.00212 | PASS |
| | | | | VH | -2.73 | -0.00329 | PASS |
| | | MCH | TN | VL | -4.59 | -0.00552 | PASS |
| | | | | VN | -2.80 | -0.00337 | PASS |
| | | | | VH | 1.87 | 0.00225 | PASS |
| | | HCH | TN | VL | -5.32 | -0.00638 | PASS |
| | | | | VN | -4.55 | -0.00545 | PASS |
| | | | | VH | -7.83 | -0.00939 | PASS |
| | LTE/TM2 10+10MHz | LCH | TN | VL | -2.48 | -0.00299 | PASS |
| | | | | VN | -4.32 | -0.00521 | PASS |
| | | | | VH | -3.17 | -0.00382 | PASS |
| | | MCH | TN | VL | 1.58 | 0.00190 | PASS |
| | | | | VN | -3.25 | -0.00391 | PASS |
| | | | | VH | 3.70 | 0.00445 | PASS |
| | | HCH | TN | VL | -2.37 | -0.00284 | PASS |
| | | | | VN | -3.48 | -0.00417 | PASS |
| | | | | VH | 5.42 | 0.00650 | PASS |
| | LTE/TM3 10+10MHz | LCH | TN | VL | 3.51 | 0.00423 | PASS |
| | | | | VN | 2.93 | 0.00353 | PASS |
| | | | | VH | 4.24 | 0.00511 | PASS |
| | | MCH | TN | VL | 5.44 | 0.00654 | PASS |
| | | | | VN | 3.18 | 0.00382 | PASS |
| | | | | VH | 4.50 | 0.00541 | PASS |
| | | HCH | TN | VL | -3.40 | -0.00408 | PASS |
| | | | | VN | -6.43 | -0.00771 | PASS |
| | | | | VH | -3.68 | -0.00441 | PASS |



8.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band5 | LTE/TM1 10+10MHz | LCH | VN | -30 | -5.38 | -0.00649 | PASS |
| | | | | -20 | -2.32 | -0.00280 | PASS |
| | | | | -10 | -2.47 | -0.00298 | PASS |
| | | | | 0 | 1.27 | 0.00153 | PASS |
| | | | | 10 | 1.20 | 0.00145 | PASS |
| | | | | 20 | 0.55 | 0.00066 | PASS |
| | | | | 30 | 2.68 | 0.00323 | PASS |
| | | | | 40 | -2.10 | -0.00253 | PASS |
| | | | | 50 | -4.02 | -0.00485 | PASS |
| | | MCH | VN | -30 | -5.04 | -0.00606 | PASS |
| | | | | -20 | -3.10 | -0.00373 | PASS |
| | | | | -10 | -3.30 | -0.00397 | PASS |
| | | | | 0 | -1.25 | -0.00150 | PASS |
| | | | | 10 | -2.07 | -0.00249 | PASS |
| | | | | 20 | -1.66 | -0.00200 | PASS |
| | | | | 30 | -3.99 | -0.00480 | PASS |
| | | | | 40 | -4.83 | -0.00581 | PASS |
| | | | | 50 | -5.92 | -0.00712 | PASS |
| | | HCH | VN | -30 | -6.06 | -0.00727 | PASS |
| | | | | -20 | -5.24 | -0.00628 | PASS |
| | | | | -10 | 3.69 | 0.00442 | PASS |
| | | | | 0 | -2.43 | -0.00291 | PASS |
| | | | | 10 | 2.24 | 0.00269 | PASS |
| | | | | 20 | -1.39 | -0.00167 | PASS |
| | | | | 30 | -2.42 | -0.00290 | PASS |
| | | | | 40 | -4.39 | -0.00526 | PASS |
| | | | | 50 | -3.84 | -0.00460 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM1701001122301

Page: 71 of 72

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band5 | LTE/TM2 10+10MHz | LCH | VN | -30 | -4.30 | -0.00519 | PASS |
| | | | | -20 | -2.42 | -0.00292 | PASS |
| | | | | -10 | 1.22 | 0.00147 | PASS |
| | | | | 0 | 2.41 | 0.00291 | PASS |
| | | | | 10 | 2.00 | 0.00241 | PASS |
| | | | | 20 | -1.43 | -0.00172 | PASS |
| | | | | 30 | -3.03 | -0.00366 | PASS |
| | | | | 40 | 2.27 | 0.00274 | PASS |
| | | | | 50 | -4.08 | -0.00492 | PASS |
| | | MCH | VN | -30 | -1.32 | -0.00159 | PASS |
| | | | | -20 | -2.66 | -0.00320 | PASS |
| | | | | -10 | -2.14 | -0.00257 | PASS |
| | | | | 0 | -1.83 | -0.00220 | PASS |
| | | | | 10 | -2.92 | -0.00351 | PASS |
| | | | | 20 | 1.35 | 0.00162 | PASS |
| | | | | 30 | -2.14 | -0.00257 | PASS |
| | | | | 40 | -6.58 | -0.00791 | PASS |
| | | | | 50 | -4.49 | -0.00540 | PASS |
| | | HCH | VN | -30 | -3.50 | -0.00420 | PASS |
| | | | | -20 | -4.33 | -0.00519 | PASS |
| | | | | -10 | 2.25 | 0.00270 | PASS |
| | | | | 0 | -3.40 | -0.00408 | PASS |
| | | | | 10 | 2.46 | 0.00295 | PASS |
| | | | | 20 | -1.53 | -0.00183 | PASS |
| | | | | 30 | -2.32 | -0.00278 | PASS |
| | | | | 40 | -3.90 | -0.00468 | PASS |
| | | | | 50 | -4.11 | -0.00493 | PASS |



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM1701001122301

Page: 72 of 72

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|---------------------|--------------|------------|------------|------------------|-----------------------|---------|
| LTE band5 | LTE/TM3 10+10MHz | LCH | VN | -30 | -3.57 | -0.00431 | PASS |
| | | | | -20 | -2.43 | -0.00293 | PASS |
| | | | | -10 | 1.22 | 0.00147 | PASS |
| | | | | 0 | 2.41 | 0.00291 | PASS |
| | | | | 10 | 1.76 | 0.00212 | PASS |
| | | | | 20 | -0.43 | -0.00052 | PASS |
| | | | | 30 | -3.03 | -0.00366 | PASS |
| | | | | 40 | 2.27 | 0.00274 | PASS |
| | | | | 50 | -4.85 | -0.00585 | PASS |
| | | MCH | VN | -30 | -3.32 | -0.00397 | PASS |
| | | | | -20 | -2.66 | -0.00318 | PASS |
| | | | | -10 | -2.14 | -0.00256 | PASS |
| | | | | 0 | -1.83 | -0.00219 | PASS |
| | | | | 10 | -0.72 | -0.00086 | PASS |
| | | | | 20 | 1.33 | 0.00159 | PASS |
| | | | | 30 | -2.24 | -0.00268 | PASS |
| | | | | 40 | -6.58 | -0.00787 | PASS |
| | | | | 50 | -5.49 | -0.00656 | PASS |
| | | HCH | VN | -30 | -3.04 | -0.00360 | PASS |
| | | | | -20 | -4.69 | -0.00556 | PASS |
| | | | | -10 | 2.49 | 0.00295 | PASS |
| | | | | 0 | -3.46 | -0.00410 | PASS |
| | | | | 10 | 2.46 | 0.00291 | PASS |
| | | | | 20 | -1.93 | -0.00229 | PASS |
| | | | | 30 | -3.32 | -0.00393 | PASS |
| | | | | 40 | -5.70 | -0.00675 | PASS |
| | | | | 50 | -4.32 | -0.00512 | PASS |

The End