



CTC20192260E02 Appendix for WCDMA
BAND5-1
FCC ID: 2AC88-GLMU19A02

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AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

WCDMA:

| Band | Channel | Power(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|---------|
| Band V | 4132 | 23.91 | 38.5 | PASS |
| Band V | 4182 | 23.98 | 38.5 | PASS |
| Band V | 4233 | 23.94 | 38.5 | PASS |

HSDPA:

| Band | Channel | SubTest | Power(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|------------|---------|
| Band V | 4132 | HSDPA_Sub1 | 22.89 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub2 | 22.43 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub3 | 22.37 | 38.5 | PASS |
| Band V | 4132 | HSDPA_Sub4 | 22.37 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub1 | 22.77 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub2 | 22.32 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub3 | 22.35 | 38.5 | PASS |
| Band V | 4182 | HSDPA_Sub4 | 22.37 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub1 | 22.75 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub2 | 22.29 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub3 | 22.33 | 38.5 | PASS |
| Band V | 4233 | HSDPA_Sub4 | 22.33 | 38.5 | PASS |

HSUPA:

| Band | Channel | SubTest | Power(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|------------|---------|
| Band V | 4132 | HSUPA_Sub1 | 22.74 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub2 | 21.95 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub3 | 21.54 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub4 | 22.39 | 38.5 | PASS |
| Band V | 4132 | HSUPA_Sub5 | 23.01 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub1 | 22.29 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub2 | 21.87 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub3 | 21.49 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub4 | 22.30 | 38.5 | PASS |
| Band V | 4182 | HSUPA_Sub5 | 22.92 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub1 | 22.56 | 38.5 | PASS |

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| | | | | | |
|--------|------|------------|-------|------|------|
| Band V | 4233 | HSUPA_Sub2 | 21.71 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub3 | 21.35 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub4 | 22.11 | 38.5 | PASS |
| Band V | 4233 | HSUPA_Sub5 | 22.85 | 38.5 | PASS |

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Appendix B: Peak-to-Average Ratio

Test Result

WCDMA:

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|--------|---------|---------------------------|-----------|---------|
| Band V | 4132 | 3.28 | 13 | PASS |
| Band V | 4182 | 3.28 | 13 | PASS |
| Band V | 4233 | 3.28 | 13 | PASS |

HSDPA:

| Band | Channel | SubTest | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|--------|---------|------------|---------------------------|-----------|---------|
| Band V | 4132 | HSDPA_Sub1 | 3.54 | 13 | PASS |
| Band V | 4132 | HSDPA_Sub2 | 4.87 | 13 | PASS |
| Band V | 4132 | HSDPA_Sub3 | 5.94 | 13 | PASS |
| Band V | 4132 | HSDPA_Sub4 | 9.07 | 13 | PASS |
| Band V | 4182 | HSDPA_Sub1 | 3.36 | 13 | PASS |
| Band V | 4182 | HSDPA_Sub2 | 3.54 | 13 | PASS |
| Band V | 4182 | HSDPA_Sub3 | 3.74 | 13 | PASS |
| Band V | 4182 | HSDPA_Sub4 | 4.78 | 13 | PASS |
| Band V | 4233 | HSDPA_Sub1 | 3.45 | 13 | PASS |
| Band V | 4233 | HSDPA_Sub2 | 5.62 | 13 | PASS |
| Band V | 4233 | HSDPA_Sub3 | 4.23 | 13 | PASS |
| Band V | 4233 | HSDPA_Sub4 | 6.78 | 13 | PASS |

HSUPA:

| Band | Channel | SubTest | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|--------|---------|------------|---------------------------|-----------|---------|
| Band V | 4132 | HSUPA_Sub1 | 4.84 | 13 | PASS |
| Band V | 4132 | HSUPA_Sub2 | 5.22 | 13 | PASS |
| Band V | 4132 | HSUPA_Sub3 | 5.54 | 13 | PASS |
| Band V | 4132 | HSUPA_Sub4 | 4.84 | 13 | PASS |
| Band V | 4132 | HSUPA_Sub5 | 3.59 | 13 | PASS |
| Band V | 4182 | HSUPA_Sub1 | 4.75 | 13 | PASS |
| Band V | 4182 | HSUPA_Sub2 | 5.13 | 13 | PASS |
| Band V | 4182 | HSUPA_Sub3 | 5.57 | 13 | PASS |
| Band V | 4182 | HSUPA_Sub4 | 5.22 | 13 | PASS |
| Band V | 4182 | HSUPA_Sub5 | 3.59 | 13 | PASS |

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| | | | | | |
|--------|------|------------|------|----|------|
| Band V | 4233 | HSUPA_Sub1 | 4.81 | 13 | PASS |
| Band V | 4233 | HSUPA_Sub2 | 5.22 | 13 | PASS |
| Band V | 4233 | HSUPA_Sub3 | 5.65 | 13 | PASS |
| Band V | 4233 | HSUPA_Sub4 | 4.81 | 13 | PASS |
| Band V | 4233 | HSUPA_Sub5 | 3.59 | 13 | PASS |

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Test Graphs

WCDMA:

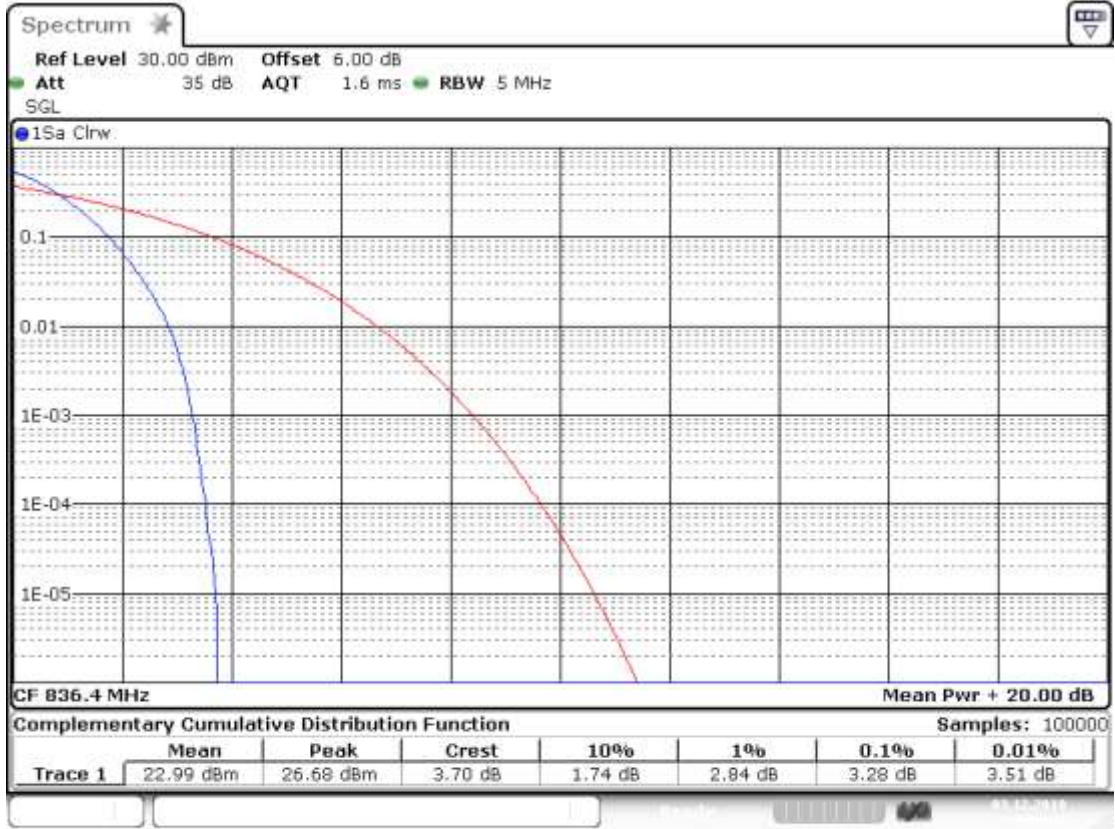
| | | |
|---|---------------|-----------------|
| Test Case: (WCDMA)Peak-to-Average Ratio | | |
| Band: V | Channel: 4132 | Value:CCDF:3.28 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 3.DEC.2019 14:08:01



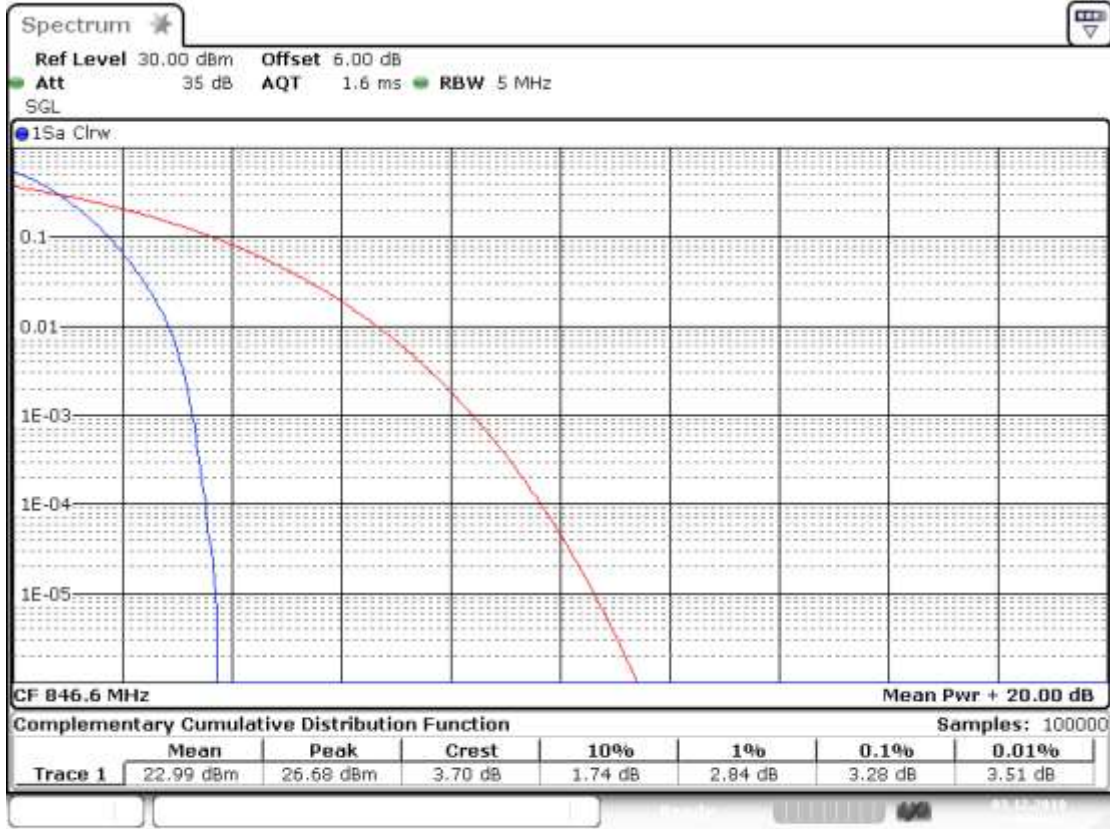
| Test Case: (WCDMA)Peak-to-Average Ratio | | |
|---|---------------|-----------------|
| Band: V | Channel: 4182 | Value:CCDF:3.28 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 3.DEC.2019 14:08:11



| | | |
|---|---------------|-----------------|
| Test Case: (WCDMA)Peak-to-Average Ratio | | |
| Band: V | Channel: 4233 | Value:CCDF:3.28 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 3.DEC.2019 14:08:21

HSDPA:

| | | |
|--|---------------|-----------------------------|
| Test Case: HSDPA Peak-to-Average Ratio | | |
| Band: V | Channel: 4132 | Value: Bc/Bd:2/15 CCDF:3.54 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:47:59

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|------------------------------|
| Band: V | Channel: 4132 | Value: Bc/Bd:12/15 CCDF:4.87 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:48:15

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|----------------------------|
| Band: V | Channel: 4132 | Value:Bc/Bd:15/8 CCDF:5.94 |
| Result: PASS | Voltage: VN | Temperature: TN |



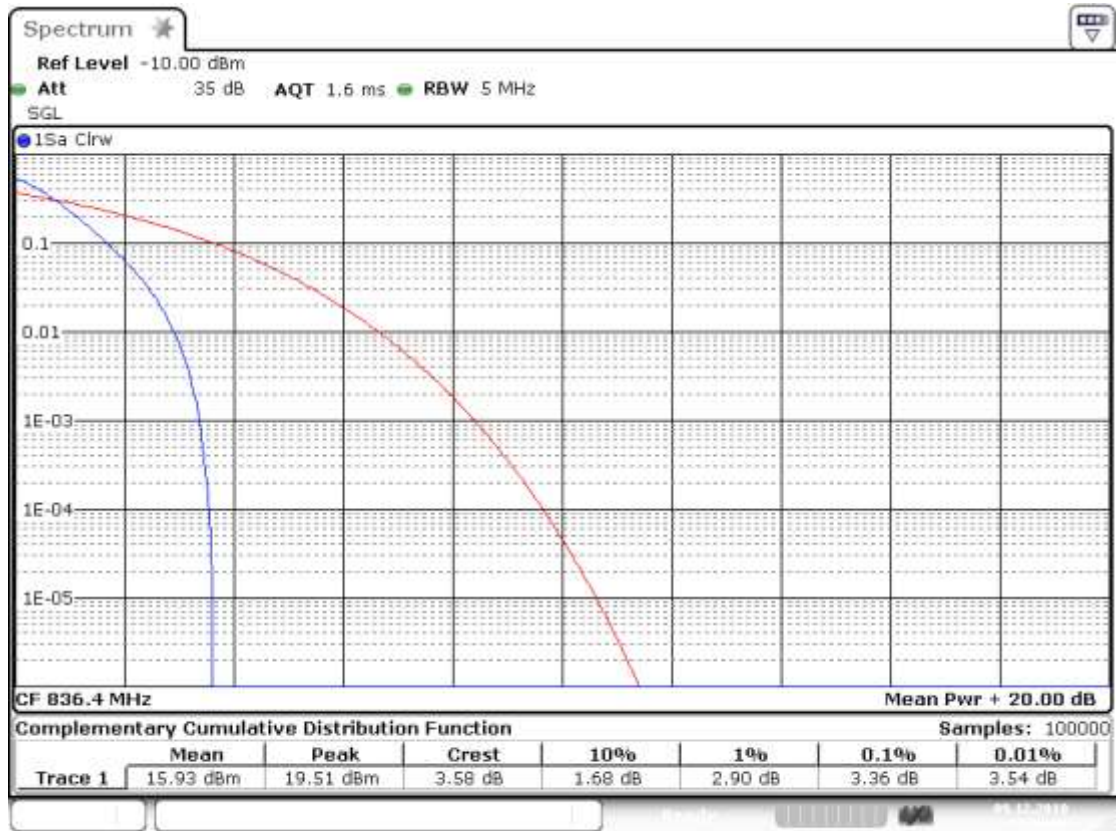
Date: 9.DEC.2019 13:48:32

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4132 | Value: Bc/Bd:15/4 CCDF:9.07 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:48:49

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4182 | Value: Bc/Bd:2/15 CCDF:3.36 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:49:06

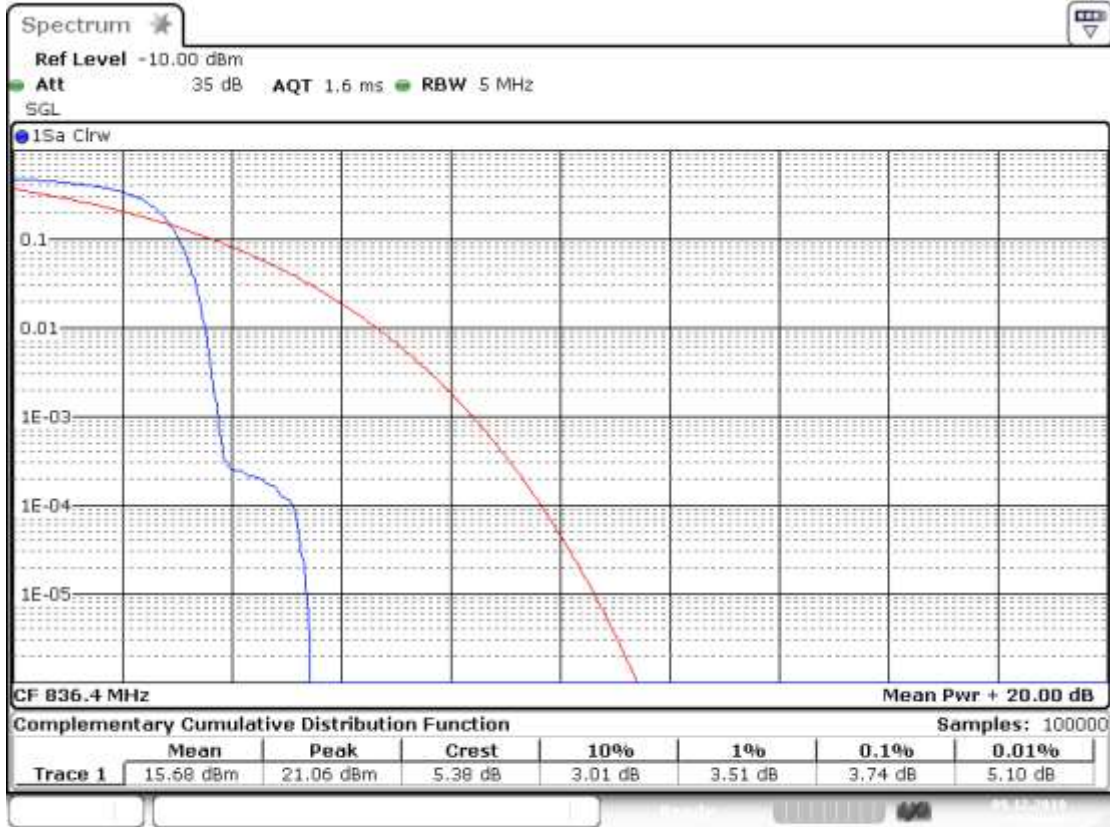
| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|------------------------------|
| Band: V | Channel: 4182 | Value: Bc/Bd:12/15 CCDF:3.54 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:49:23



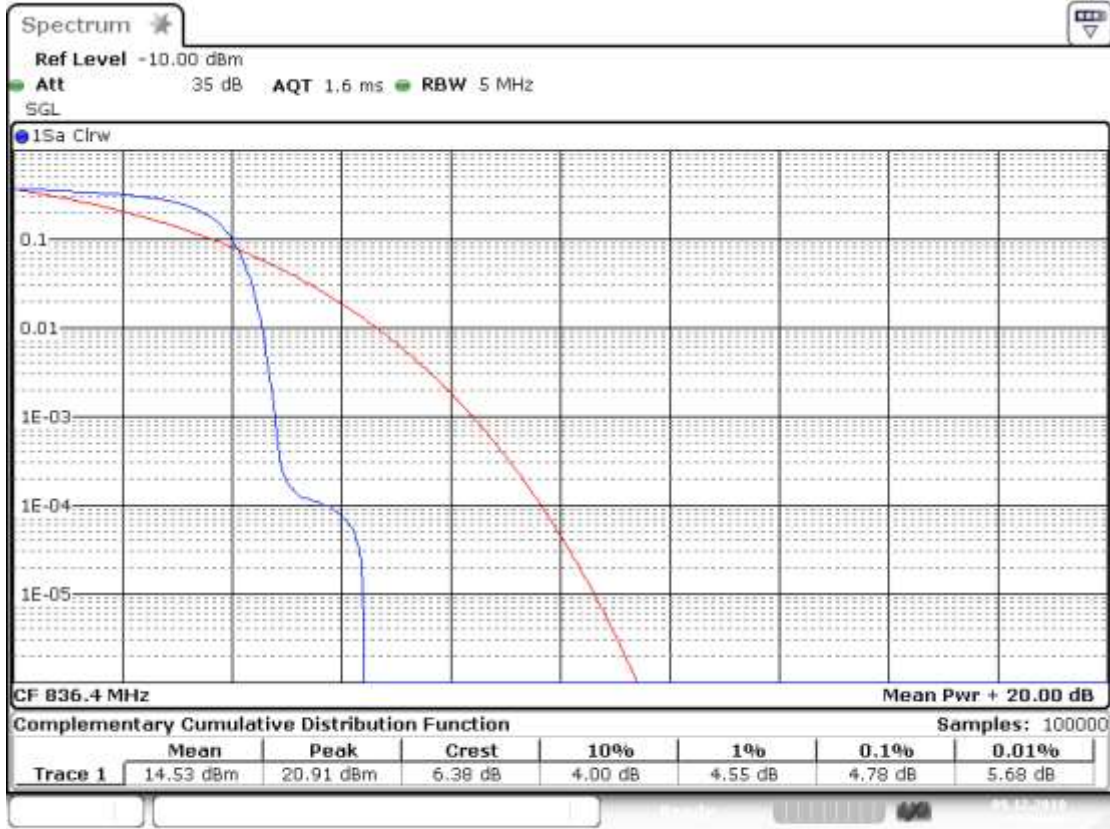
| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4182 | Value: Bc/Bd:15/8 CCDF:3.74 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:49:39



| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|----------------------------|
| Band: V | Channel: 4182 | Value:Bc/Bd:15/4 CCDF:4.78 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:49:56



| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4233 | Value: Bc/Bd:2/15 CCDF:3.45 |
| Result: PASS | Voltage: VN | Temperature: TN |



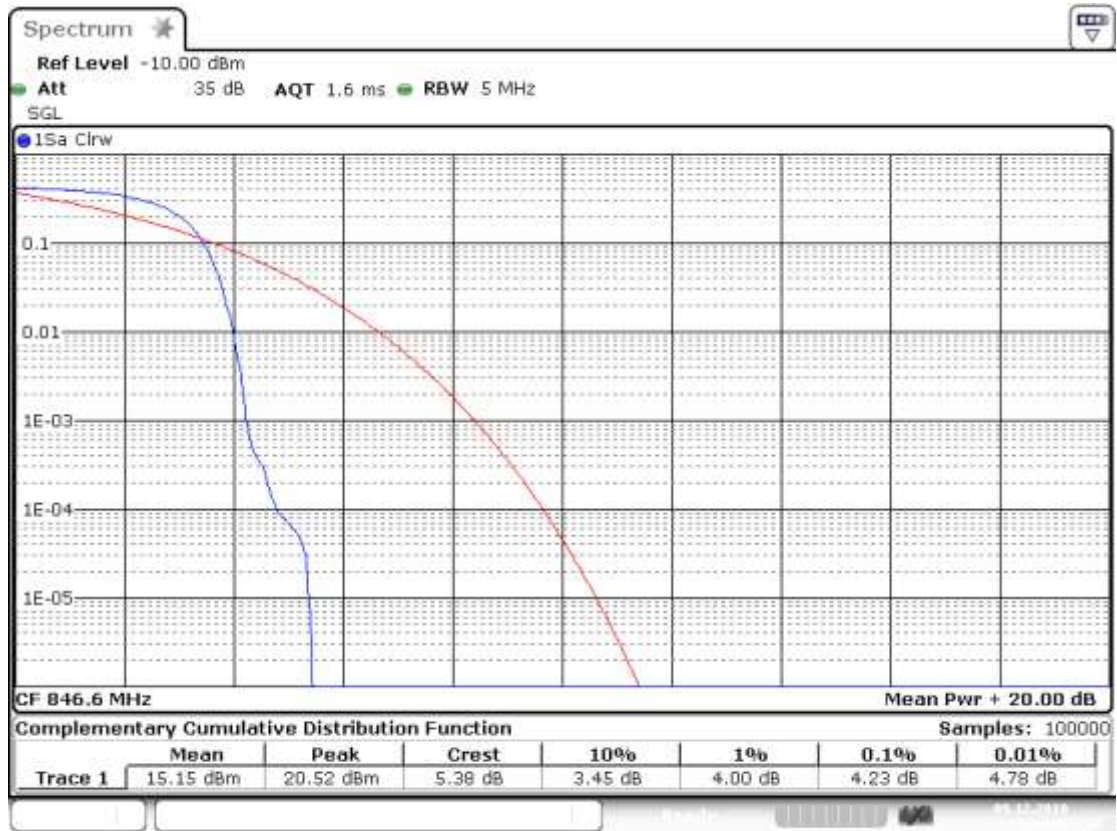
Date: 9.DEC.2019 13:50:13

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|------------------------------|
| Band: V | Channel: 4233 | Value: Bc/Bd:12/15 CCDF:5.62 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:50:30

| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4233 | Value: Bc/Bd:15/8 CCDF:4.23 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:50:46

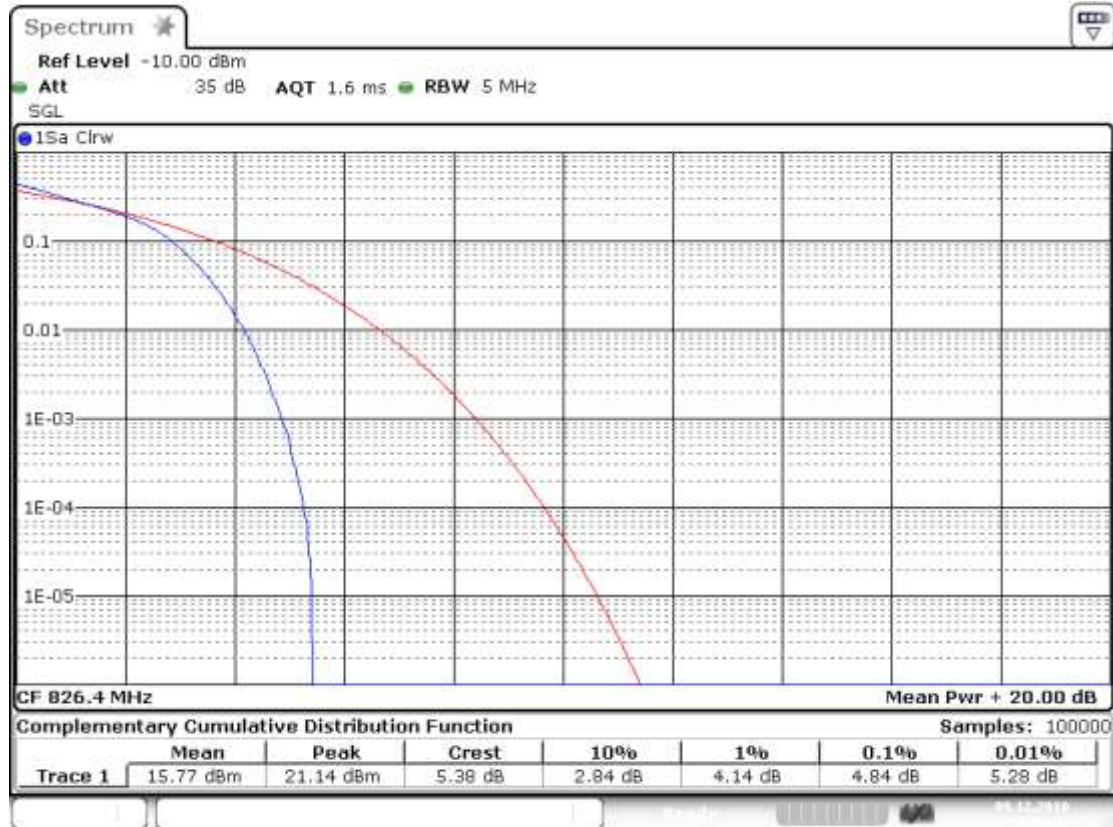
| Test Case: HSDPA Peak-to-Average Ratio | | |
|--|---------------|-----------------------------|
| Band: V | Channel: 4233 | Value: Bc/Bd:15/4 CCDF:6.78 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 13:51:03

HSUPA:

| | | |
|--|---------------|---------------------------|
| Test Case: HSUPA Peak-to-Average Ratio | | |
| Band: V | Channel: 4132 | Value:SubTest1: CCDF:4.84 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 14:48:23

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4132 | Value:SubTest2: CCDF:5.22 |
| Result: PASS | Voltage: VN | Temperature: TN |



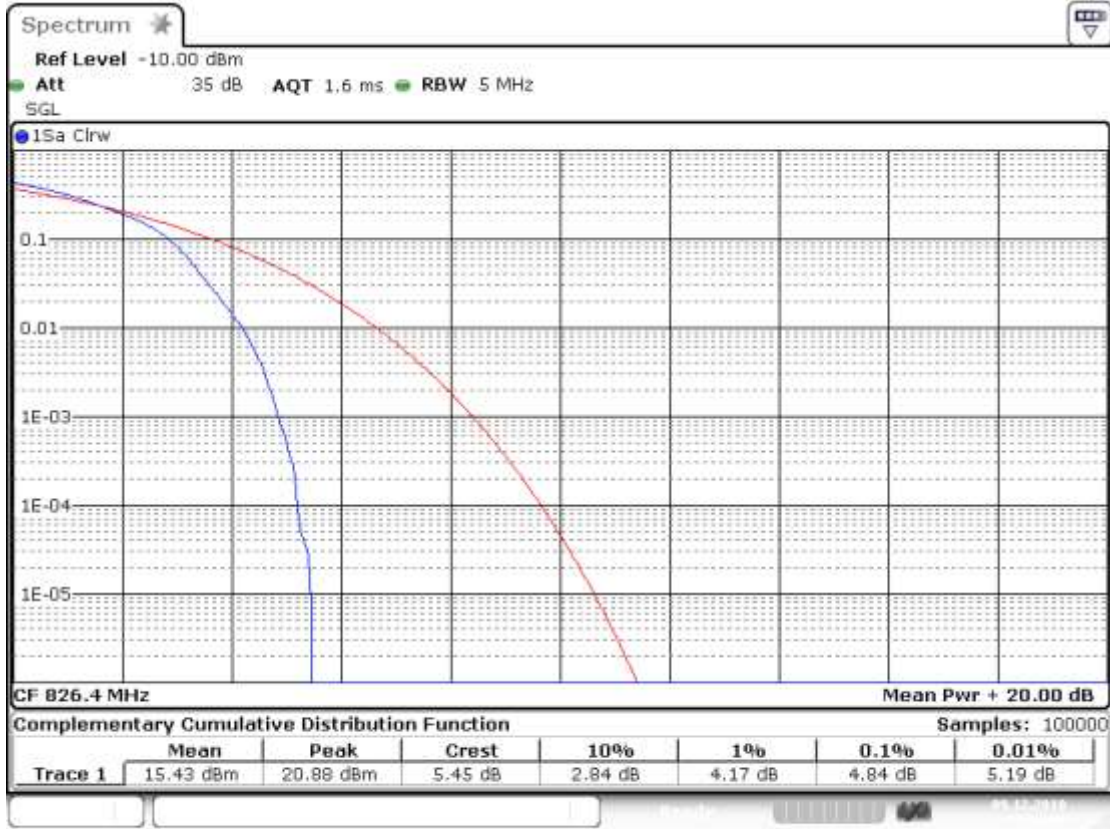
Date: 9.DEC.2019 14:49:21

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4132 | Value:SubTest3: CCDF:5.54 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 14:50:20

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4132 | Value:SubTest4: CCDF:4.84 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 14:52:00

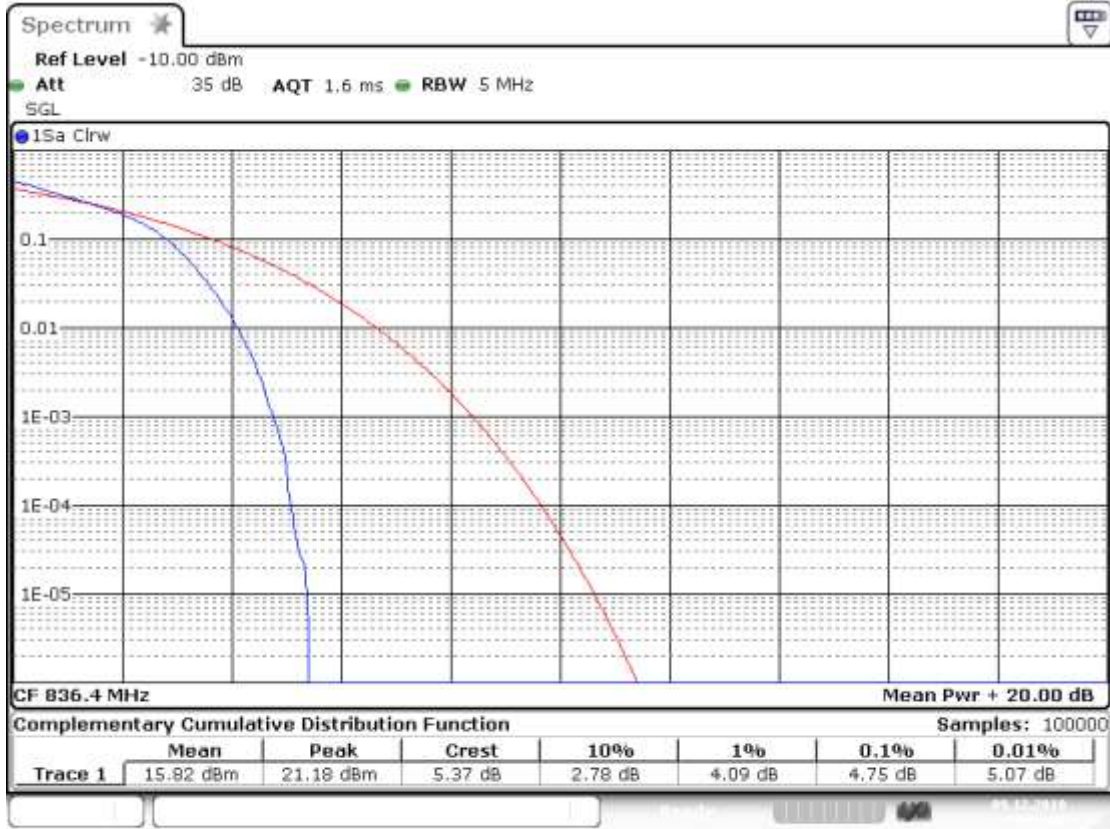


| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4132 | Value:SubTest5: CCDF:3.59 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 14:52:22

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4182 | Value:SubTest1: CCDF:4.75 |
| Result: PASS | Voltage: VN | Temperature: TN |



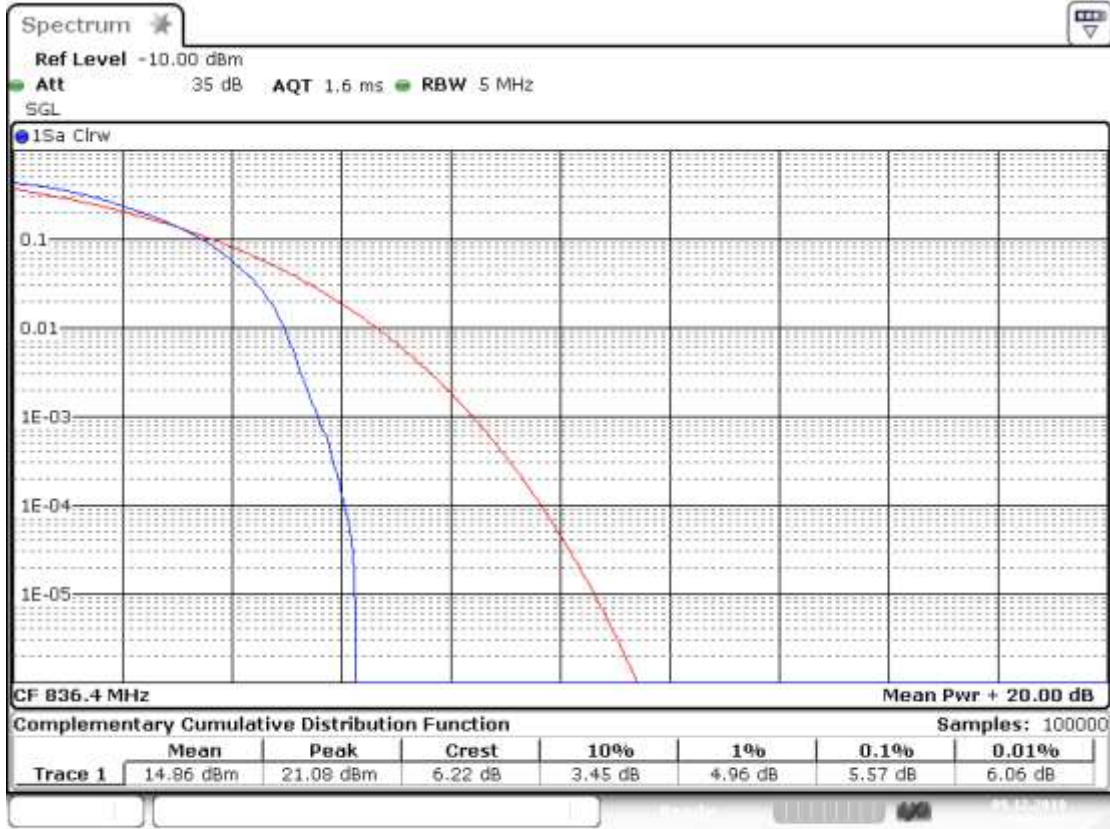
Date: 9.DEC.2019 15:01:27

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4182 | Value:SubTest2: CCDF:5.13 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:02:25

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4182 | Value:SubTest3: CCDF:5.57 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:03:24

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4182 | Value:SubTest4: CCDF:5.22 |
| Result: PASS | Voltage: VN | Temperature: TN |



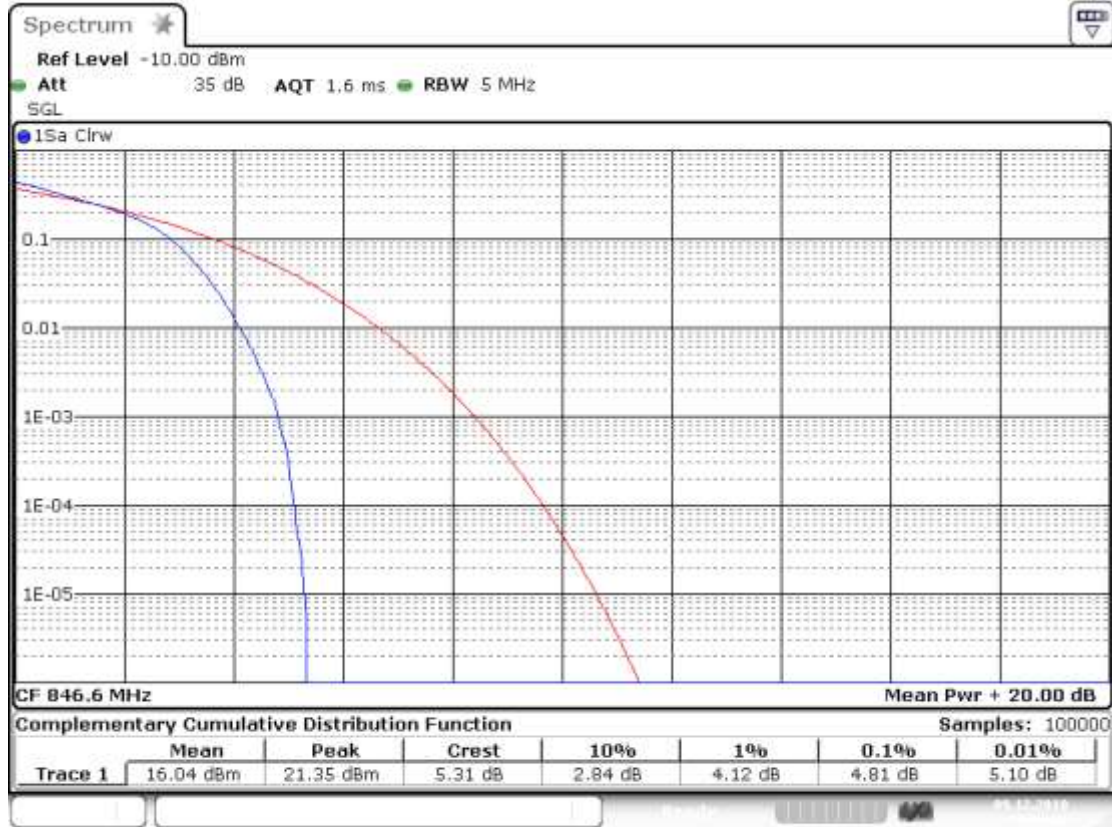
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| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4182 | Value:SubTest5: CCDF:3.59 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:05:22

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4233 | Value:SubTest1: CCDF:4.81 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:06:26

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| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4233 | Value:SubTest2: CCDF:5.22 |
| Result: PASS | Voltage: VN | Temperature: TN |



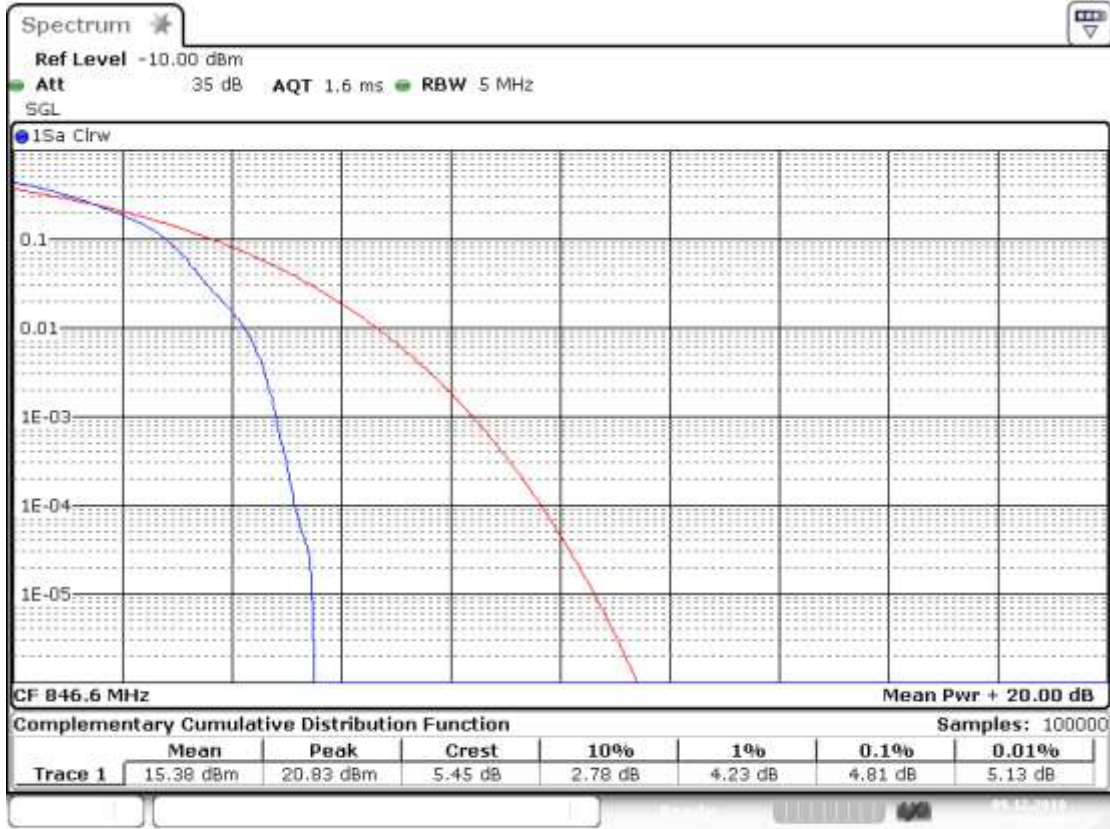
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| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4233 | Value:SubTest3: CCDF:5.65 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:08:24

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4233 | Value:SubTest4: CCDF:4.81 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:10:03

| Test Case: HSUPA Peak-to-Average Ratio | | |
|--|---------------|---------------------------|
| Band: V | Channel: 4233 | Value:SubTest5: CCDF:3.59 |
| Result: PASS | Voltage: VN | Temperature: TN |



Date: 9.DEC.2019 15:10:25

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

WCDMA:

| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|--------|---------|--------------------------|----------------------|------------|---------|
| Band V | 4132 | 4124.5 | 4725 | --- | PASS |
| Band V | 4182 | 4110.0 | 4710 | --- | PASS |
| Band V | 4233 | 4110.0 | 4725 | --- | PASS |

HSDPA:

| Band | Channel | SubTest | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|--------|---------|------------|--------------------------|----------------------|------------|---------|
| Band V | 4132 | HSDPA_Sub1 | 4124.5 | 4710 | --- | PASS |
| Band V | 4132 | HSDPA_Sub2 | 4124.5 | 4739 | --- | PASS |
| Band V | 4132 | HSDPA_Sub3 | 4110.0 | 4739 | --- | PASS |
| Band V | 4132 | HSDPA_Sub4 | 4124.5 | 4754 | --- | PASS |
| Band V | 4182 | HSDPA_Sub1 | 4110.0 | 4725 | --- | PASS |
| Band V | 4182 | HSDPA_Sub2 | 4110.0 | 4725 | --- | PASS |
| Band V | 4182 | HSDPA_Sub3 | 4124.5 | 4739 | --- | PASS |
| Band V | 4182 | HSDPA_Sub4 | 4110.0 | 4739 | --- | PASS |
| Band V | 4233 | HSDPA_Sub1 | 4095.5 | 4710 | --- | PASS |
| Band V | 4233 | HSDPA_Sub2 | 4110.0 | 4725 | --- | PASS |
| Band V | 4233 | HSDPA_Sub3 | 4124.5 | 4739 | --- | PASS |
| Band V | 4233 | HSDPA_Sub4 | 4095.5 | 4739 | --- | PASS |

HSUPA:

| Band | Channel | SubTest | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|--------|---------|------------|--------------------------|----------------------|------------|---------|
| Band V | 4132 | HSUPA_Sub1 | 4138.9 | 4725 | --- | PASS |
| Band V | 4132 | HSUPA_Sub2 | 4138.9 | 4768 | --- | PASS |
| Band V | 4132 | HSUPA_Sub3 | 4138.9 | 4739 | --- | PASS |
| Band V | 4132 | HSUPA_Sub4 | 4138.9 | 4739 | --- | PASS |
| Band V | 4132 | HSUPA_Sub5 | 4138.9 | 4739 | --- | PASS |
| Band V | 4182 | HSUPA_Sub1 | 4110.0 | 4725 | --- | PASS |
| Band V | 4182 | HSUPA_Sub2 | 4124.5 | 4696 | --- | PASS |
| Band V | 4182 | HSUPA_Sub3 | 4110.0 | 4739 | --- | PASS |
| Band V | 4182 | HSUPA_Sub4 | 4110.0 | 4725 | --- | PASS |
| Band V | 4182 | HSUPA_Sub5 | 4110.0 | 4754 | --- | PASS |
| Band V | 4233 | HSUPA_Sub1 | 4110.0 | 4739 | --- | PASS |

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| | | | | | | |
|--------|------|------------|--------|------|-----|------|
| Band V | 4233 | HSUPA_Sub2 | 4110.0 | 4725 | --- | PASS |
| Band V | 4233 | HSUPA_Sub3 | 4124.5 | 4725 | --- | PASS |
| Band V | 4233 | HSUPA_Sub4 | 4110.0 | 4725 | --- | PASS |
| Band V | 4233 | HSUPA_Sub5 | 4110.0 | 4725 | --- | PASS |

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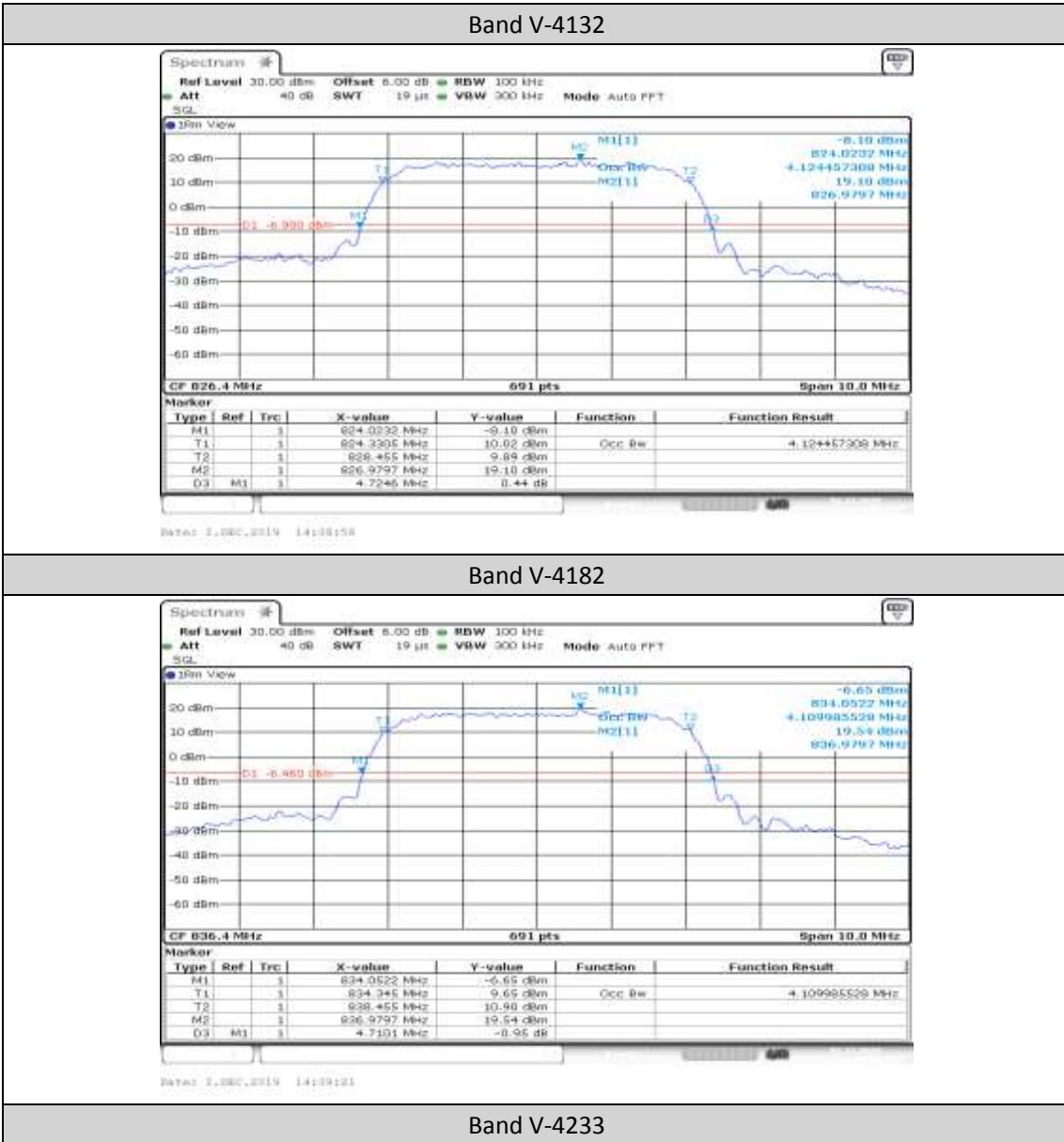
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Test Graphs

WCDMA:



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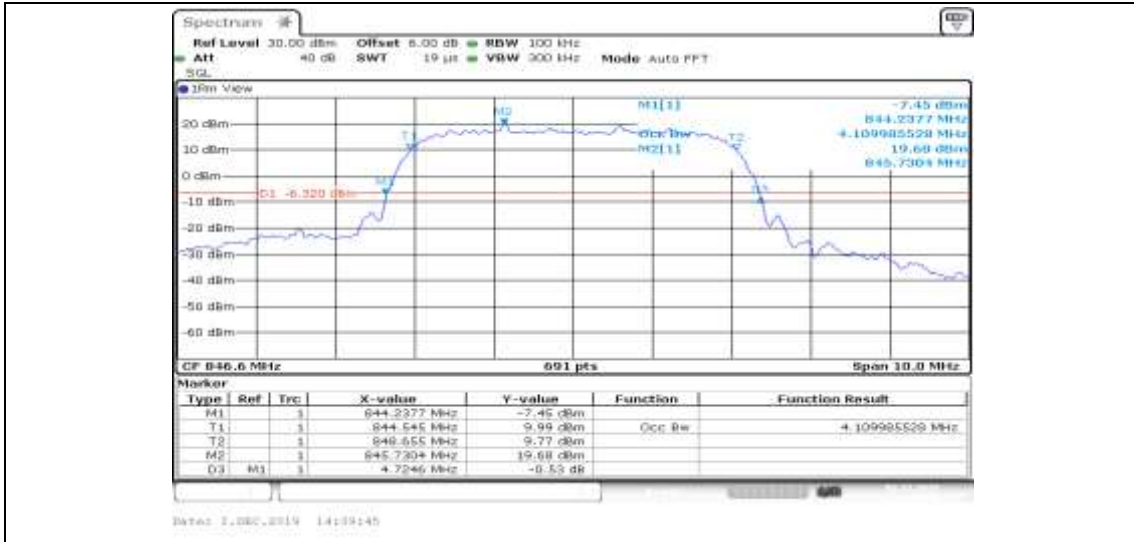
Tel.: (86)755-27521059

Fax: (86)755-27521011

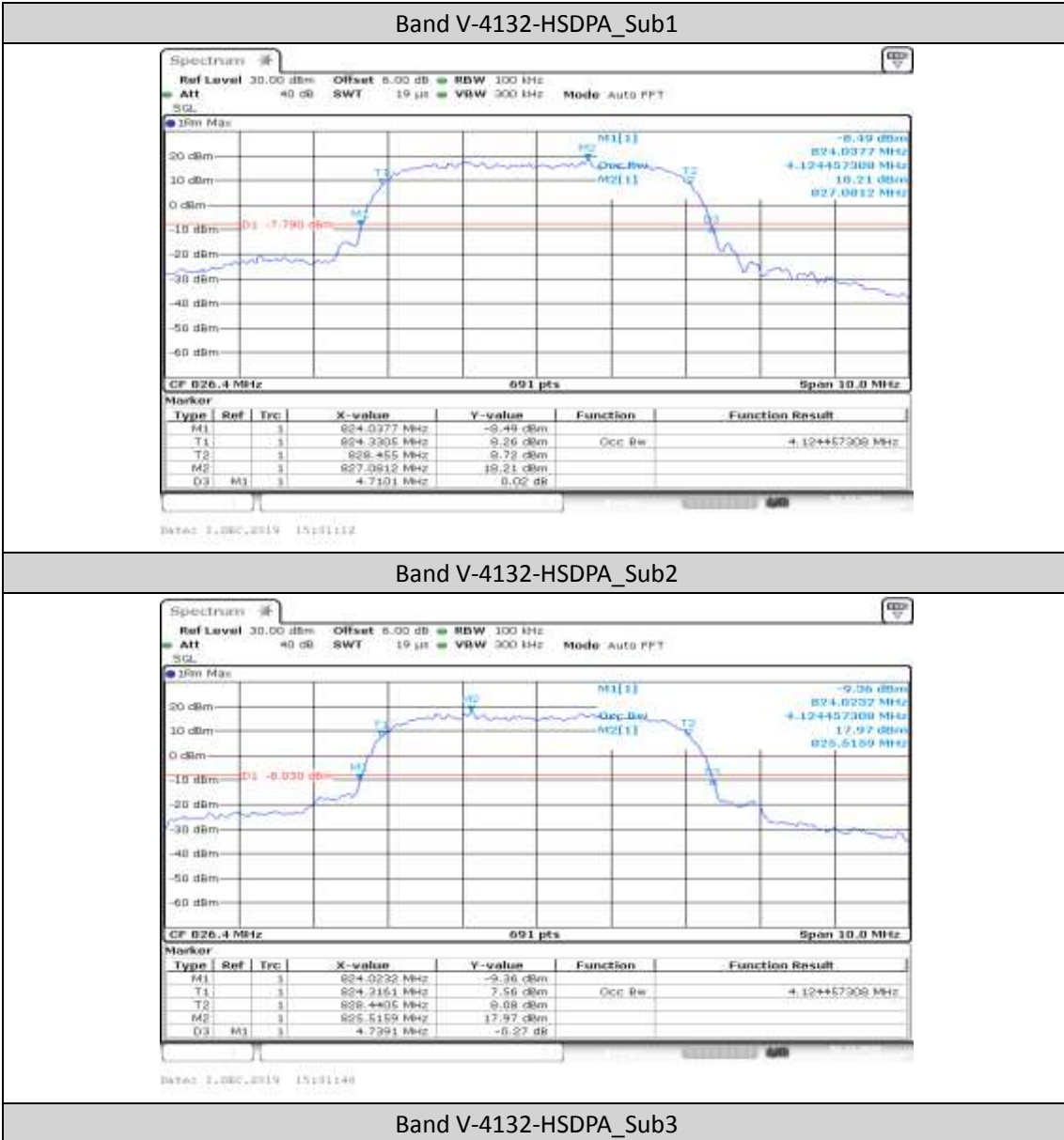
Http://www.sz-ctc.org.cn

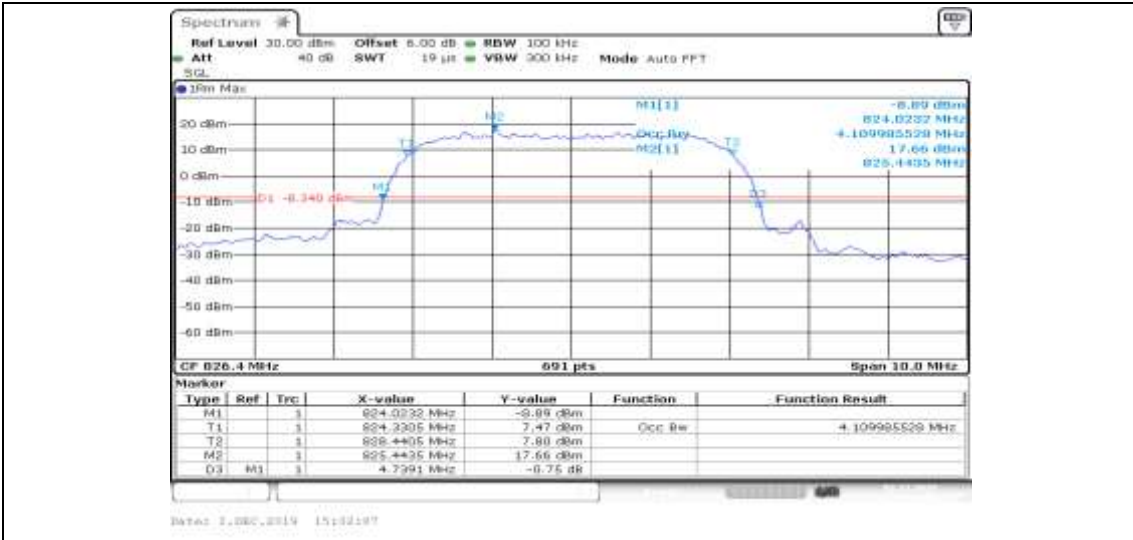


For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : [yz.cnca.cn](http://www.cnca.cn)

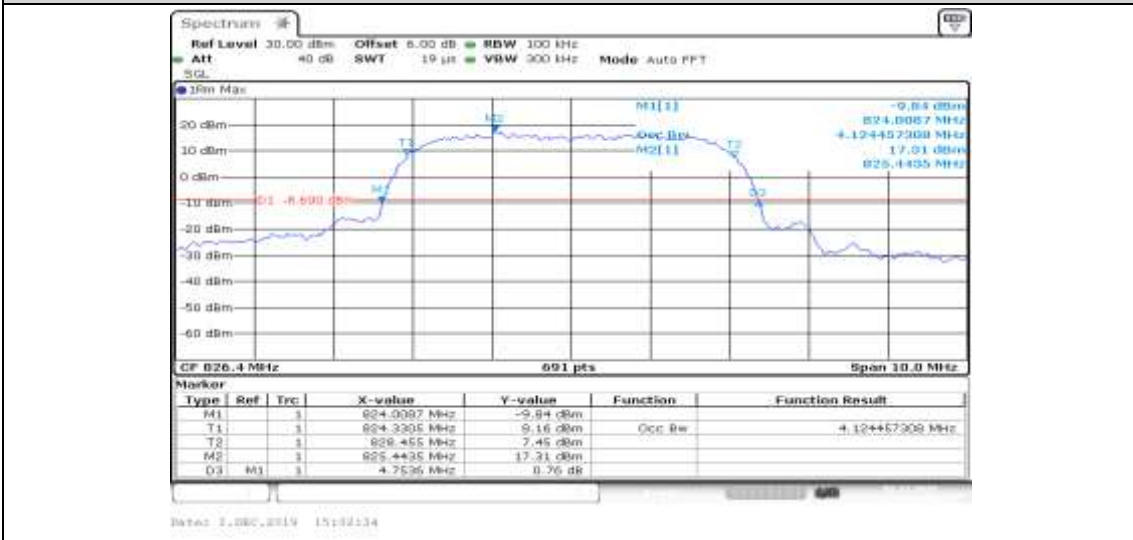


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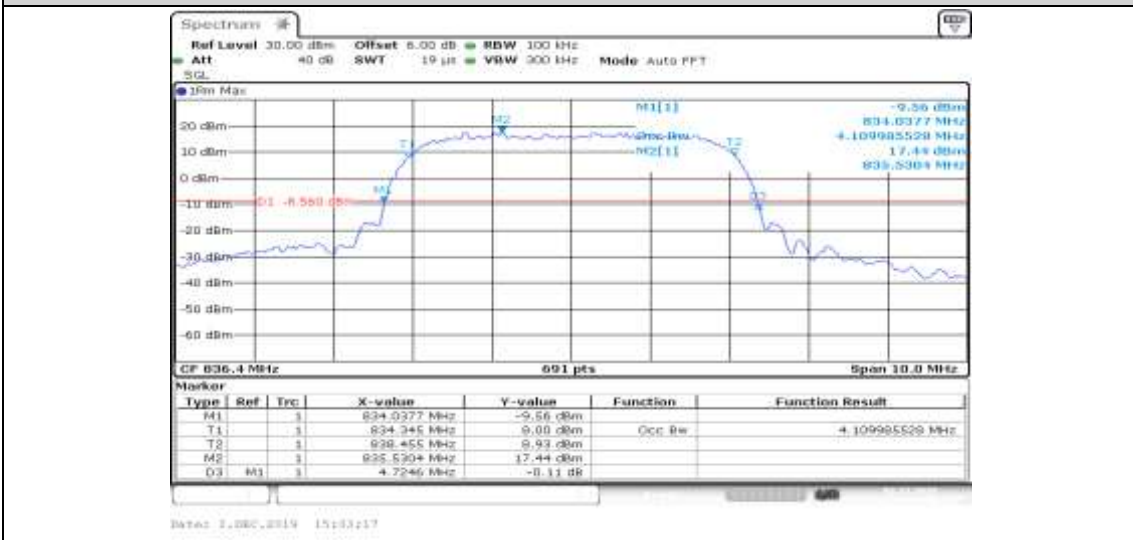




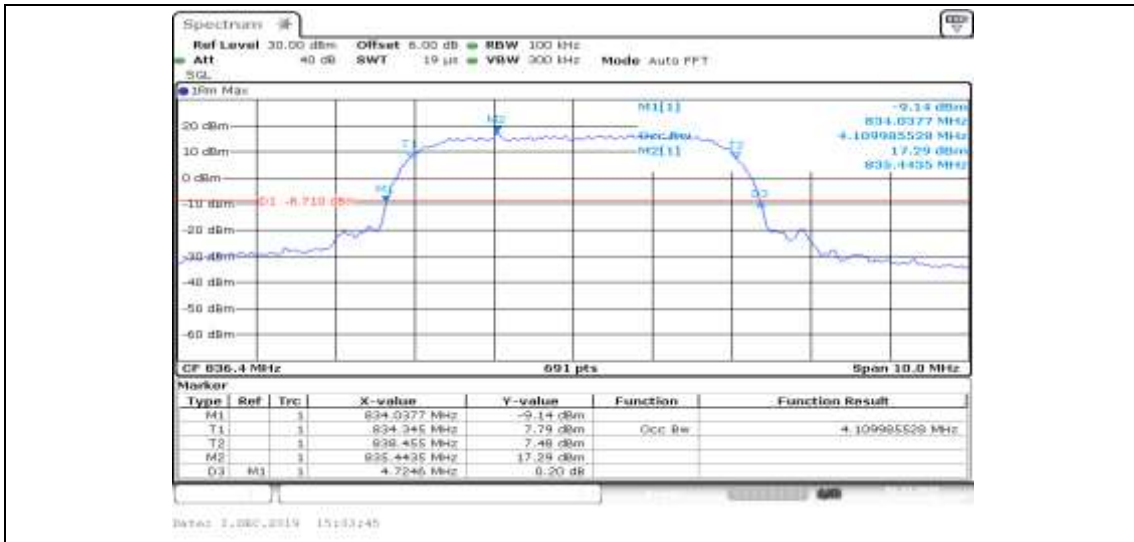
Band V-4132-HSDPA_Sub4



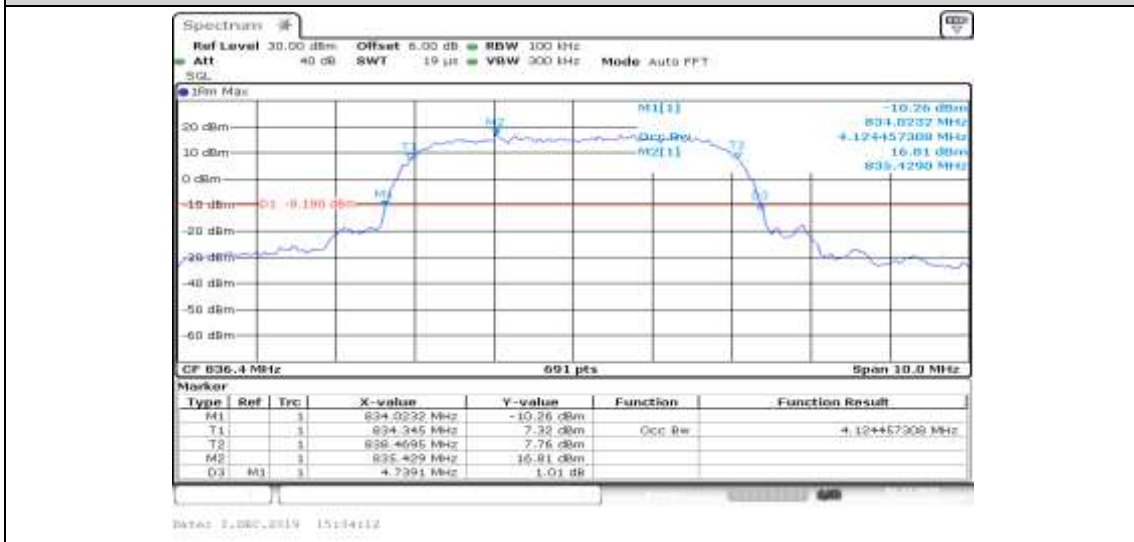
Band V-4182-HSDPA_Sub1



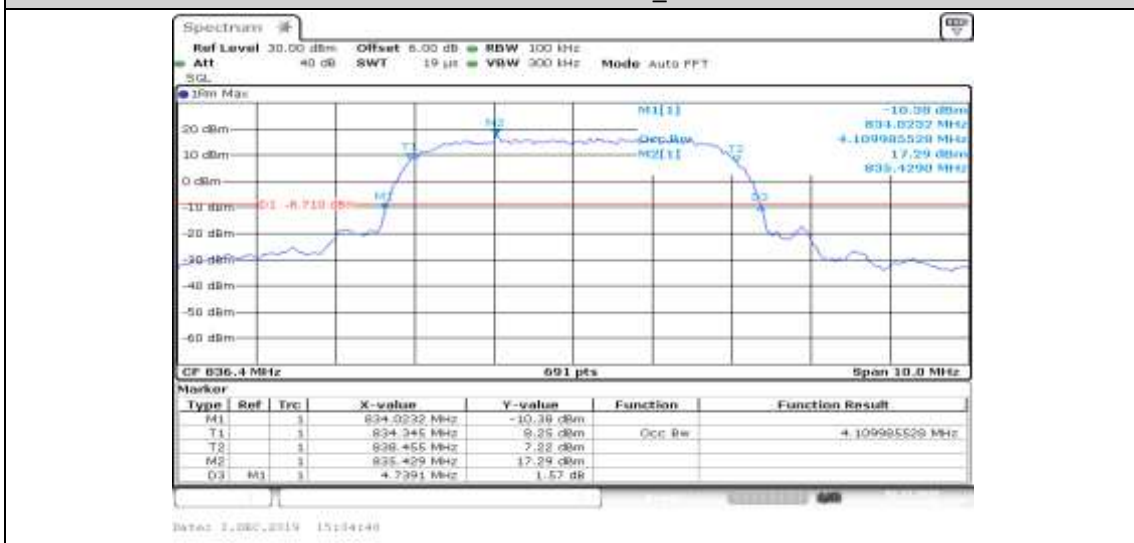
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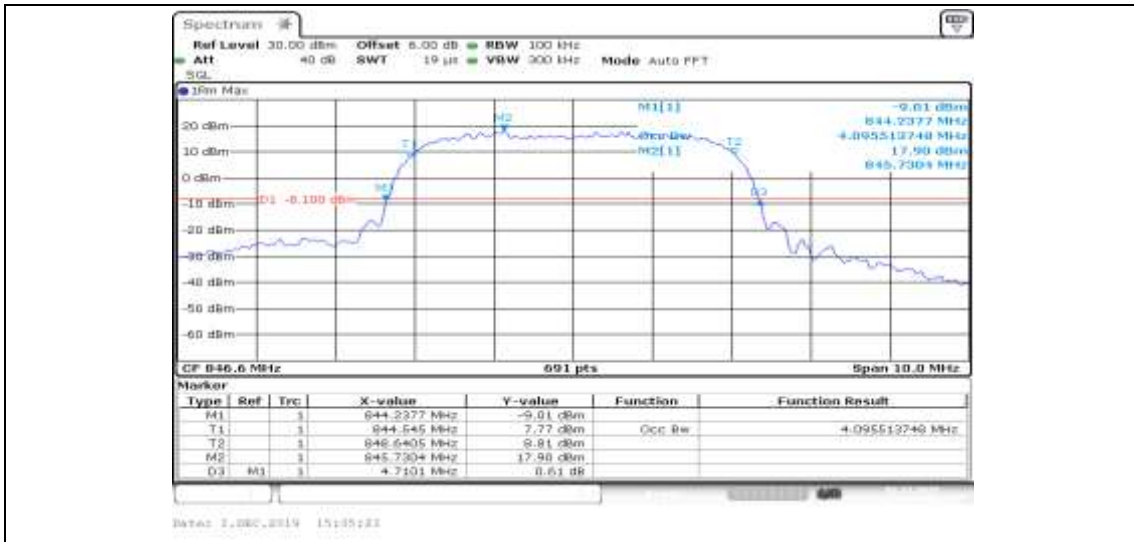
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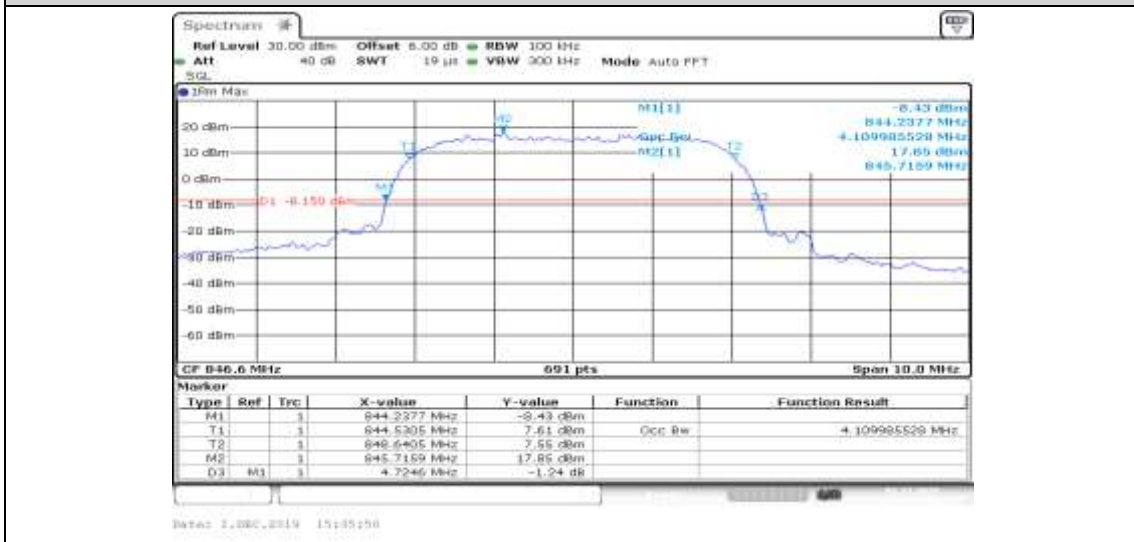
Band V-4182-HSDPA_Sub4



Band V-4233-HSDPA_Sub1



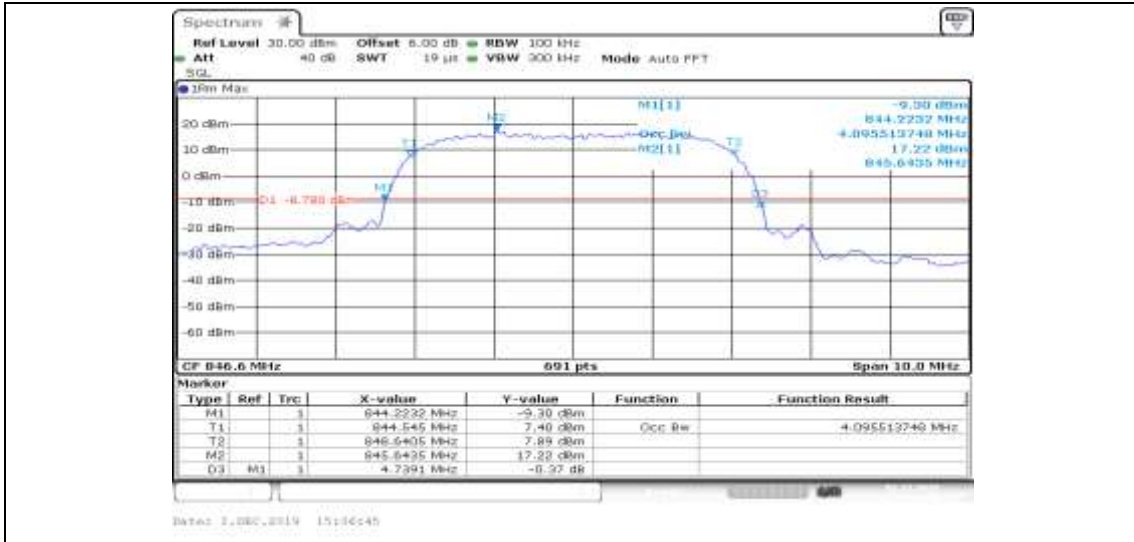
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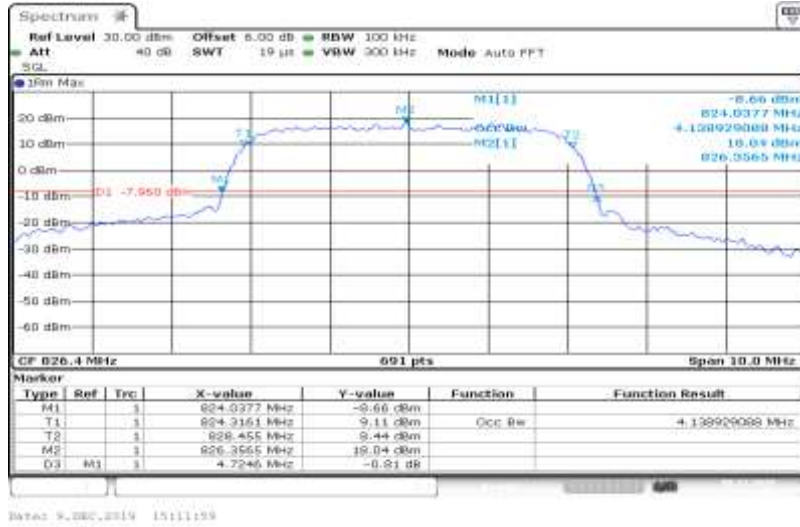


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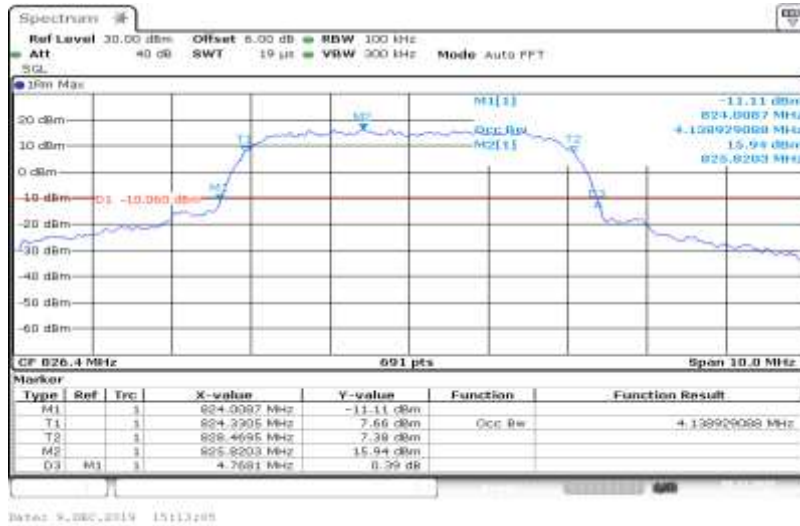


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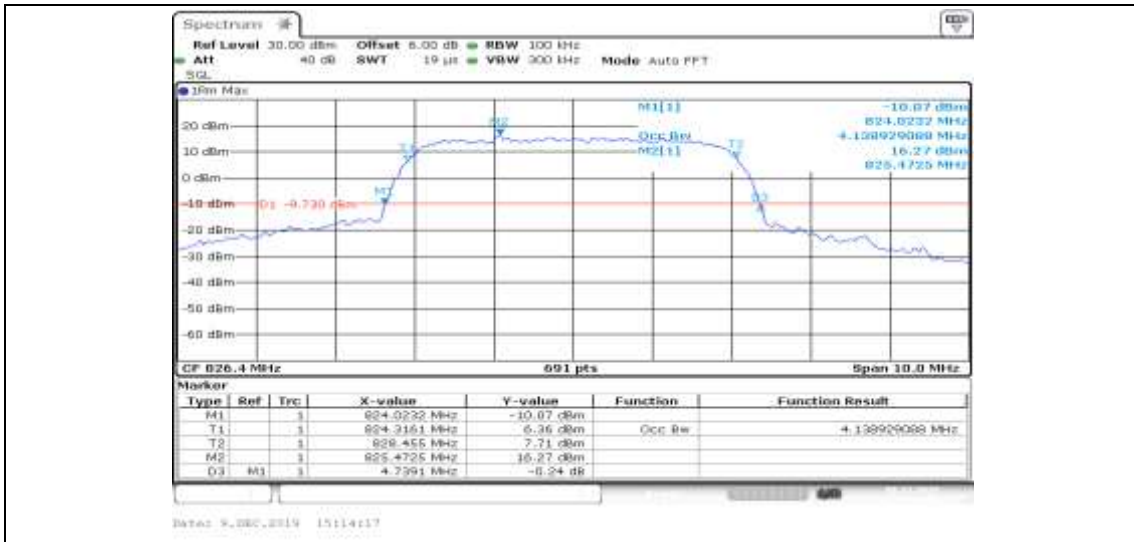
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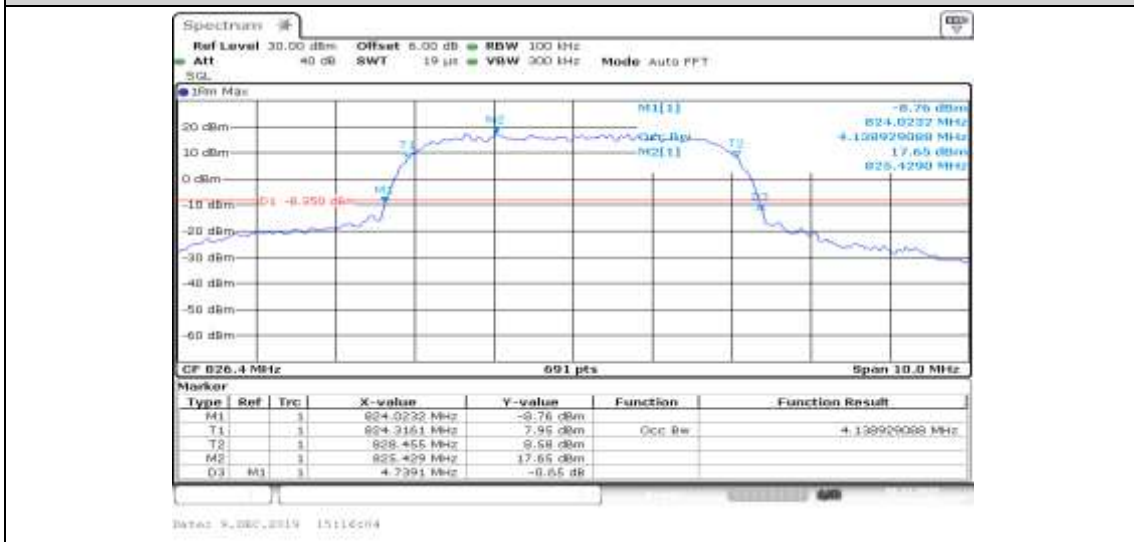
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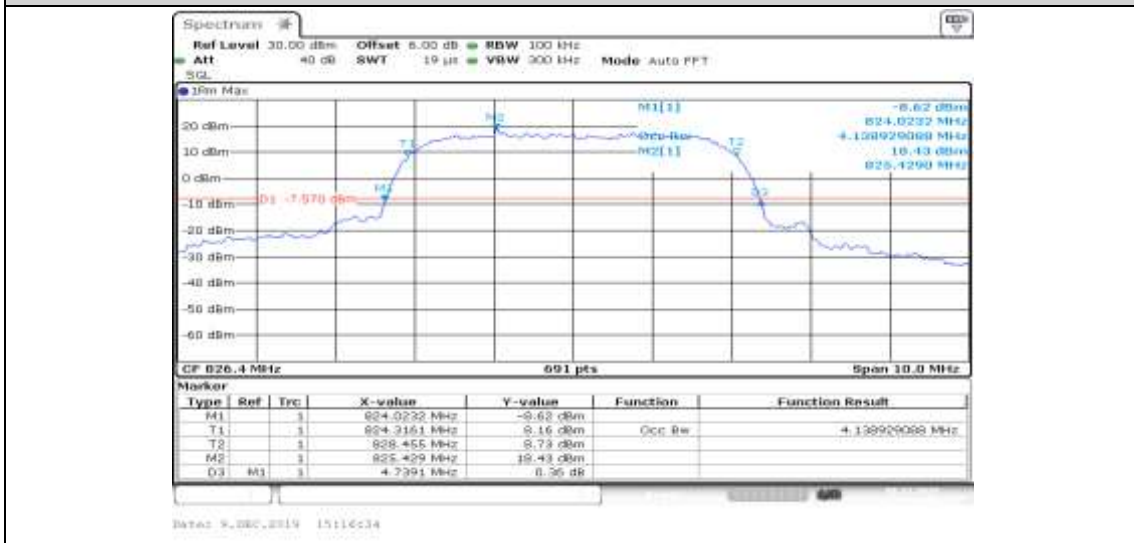
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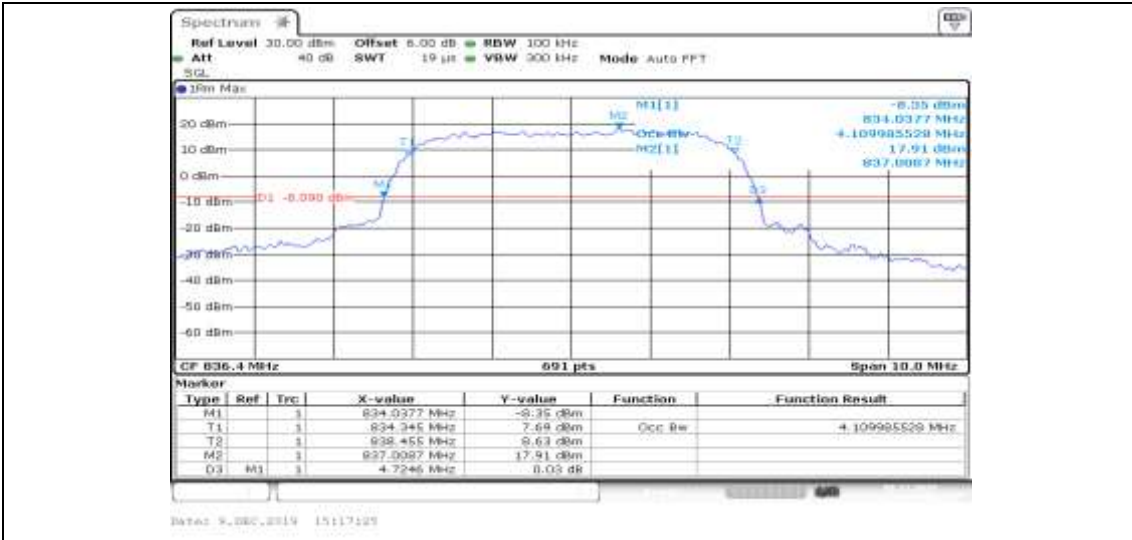
Band V-4132-HSUPA_Sub4



Band V-4132-HSUPA_Sub5



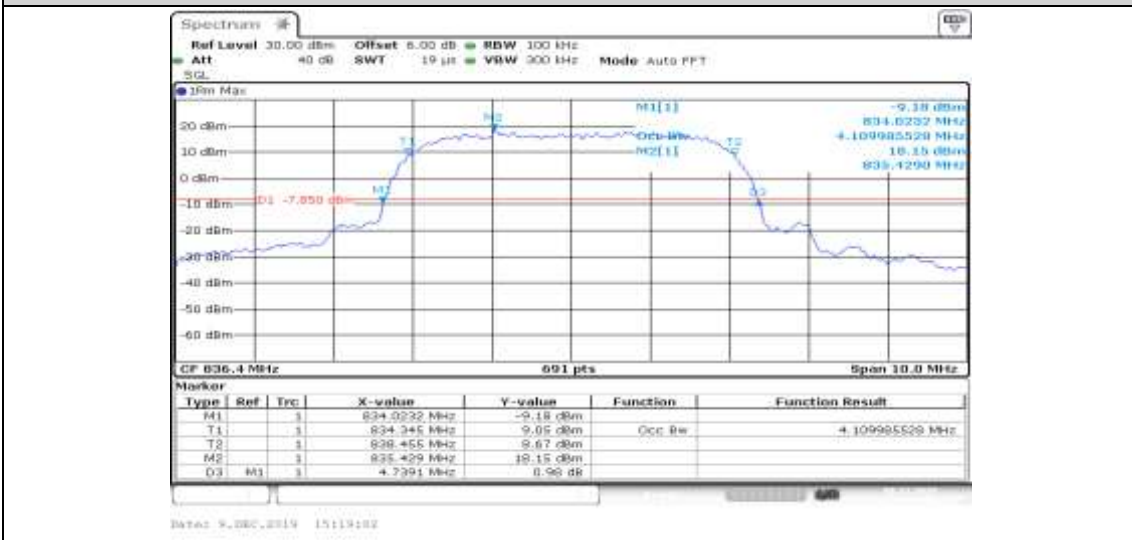
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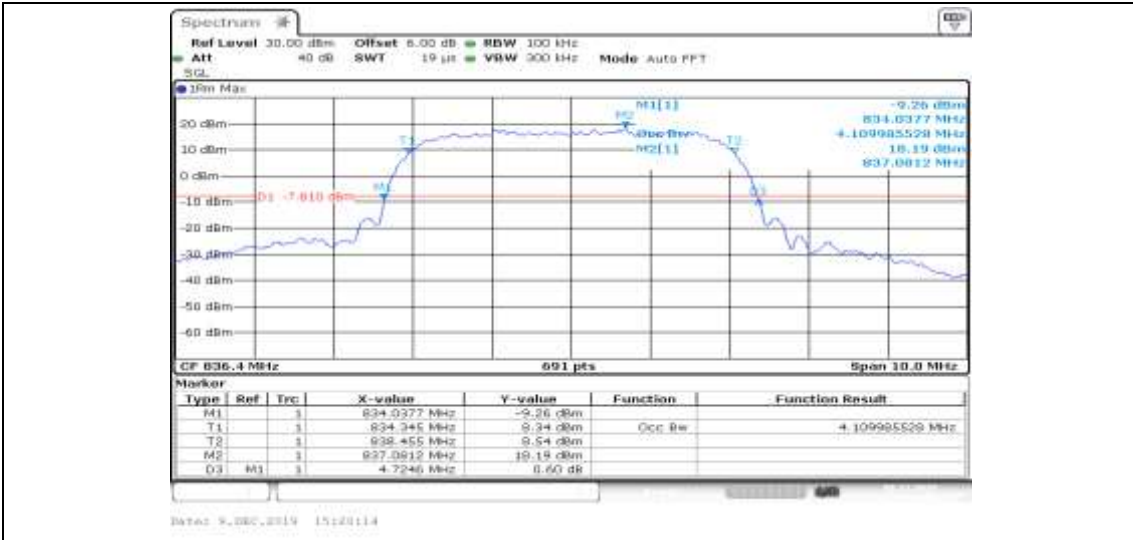
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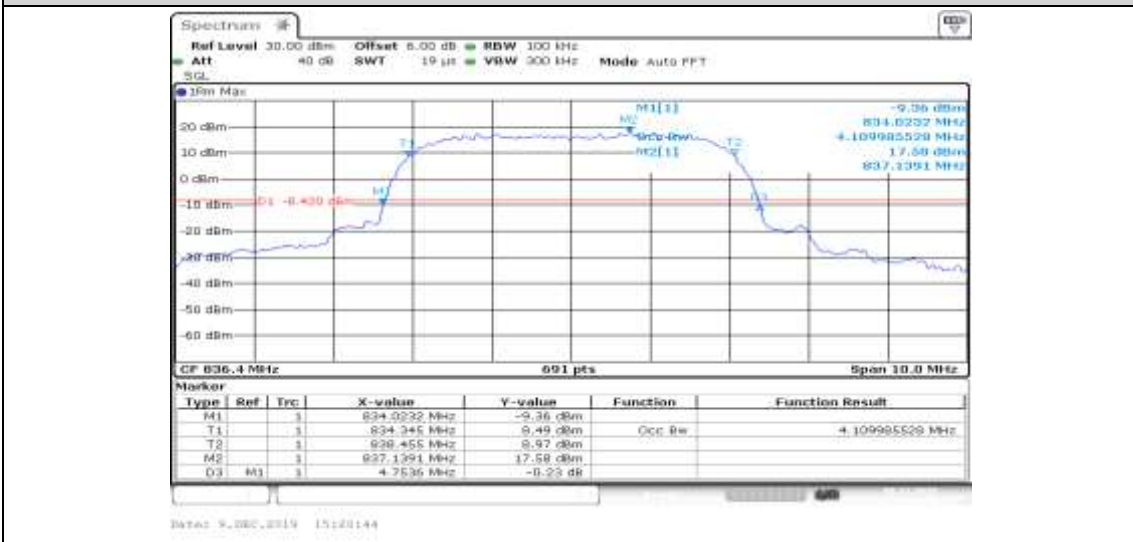
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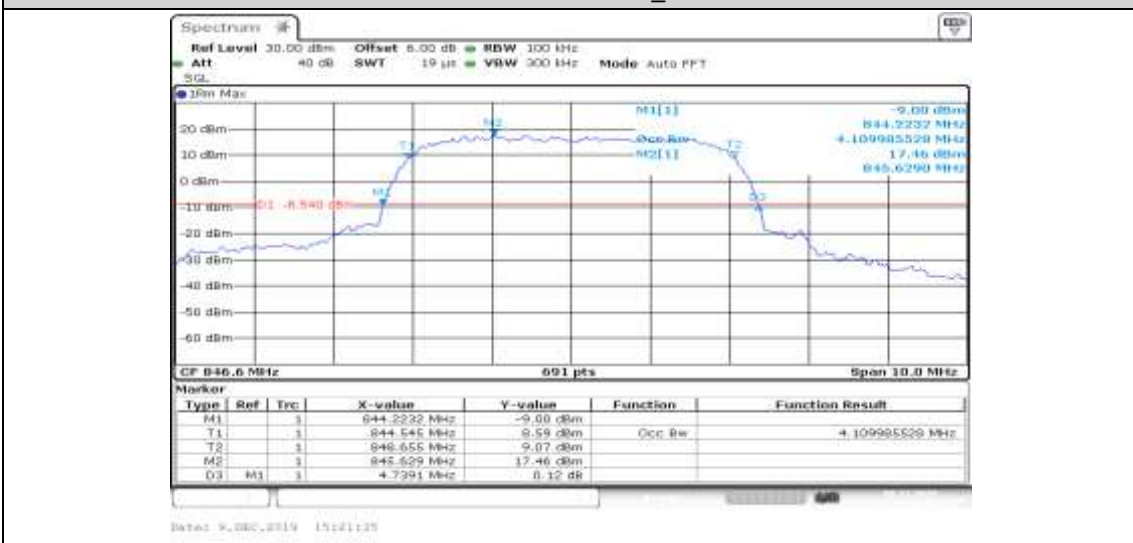
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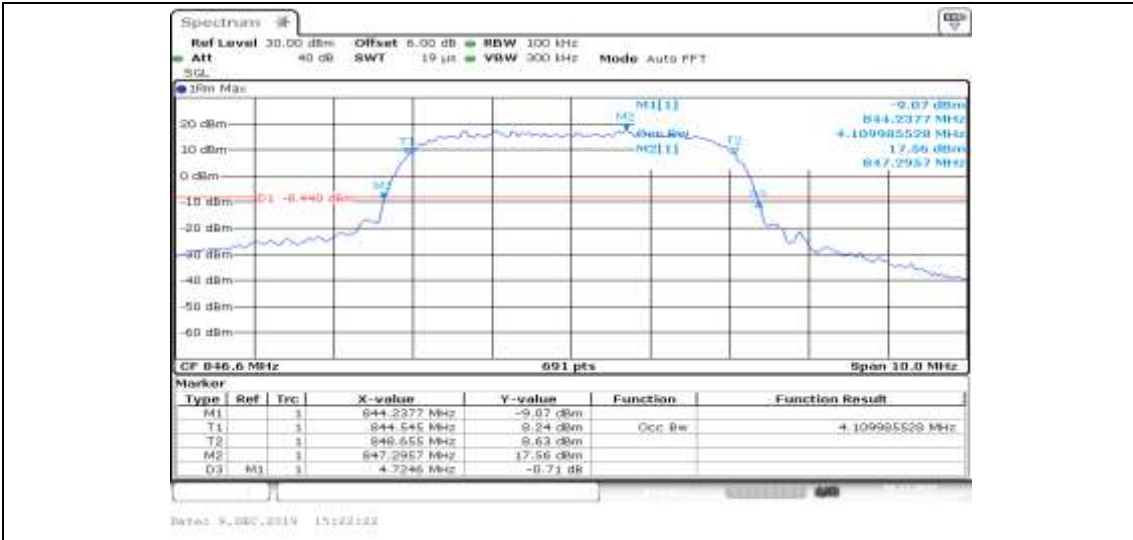
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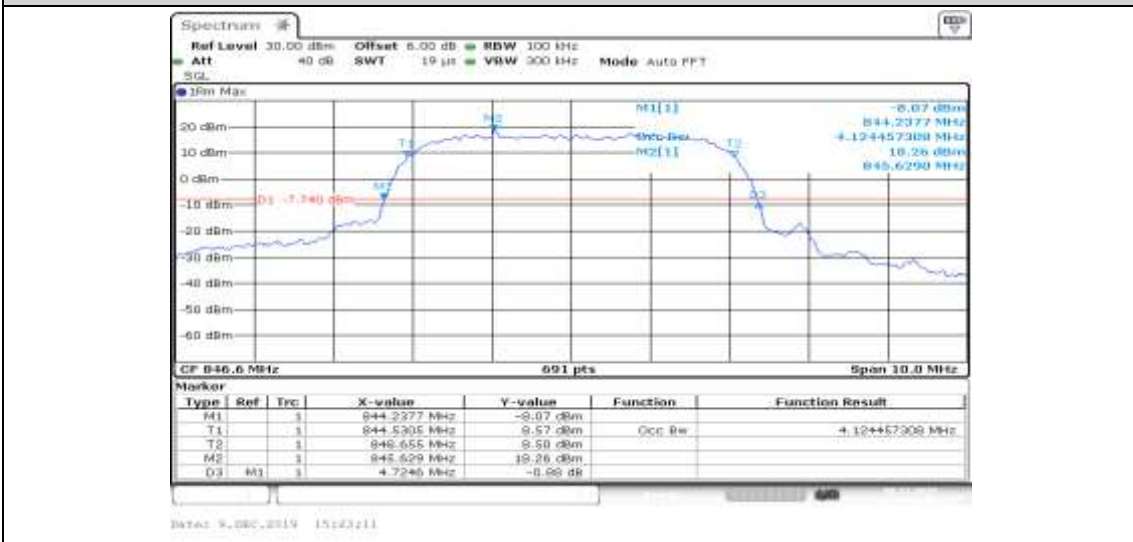
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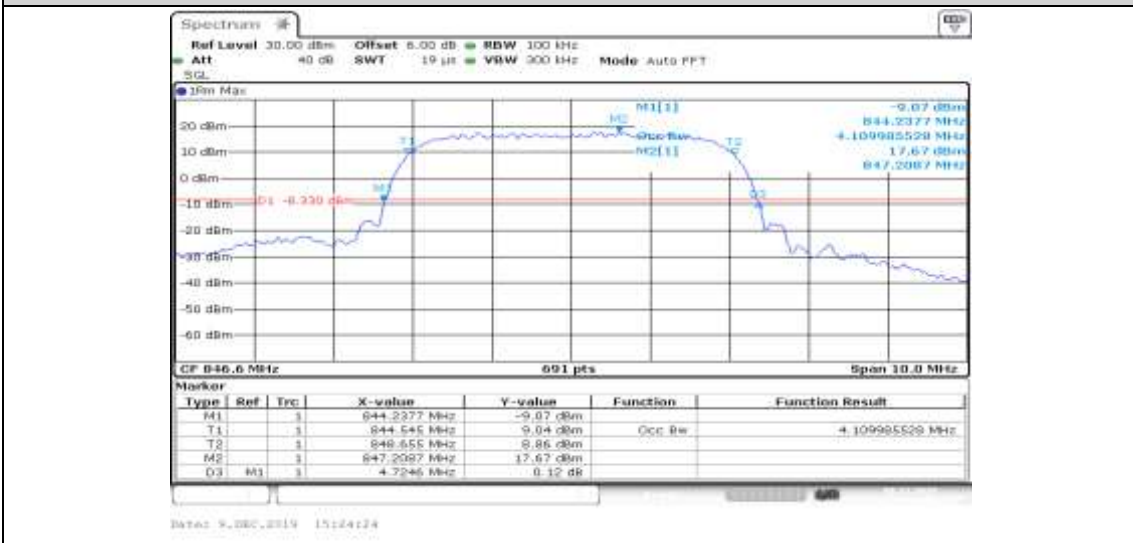
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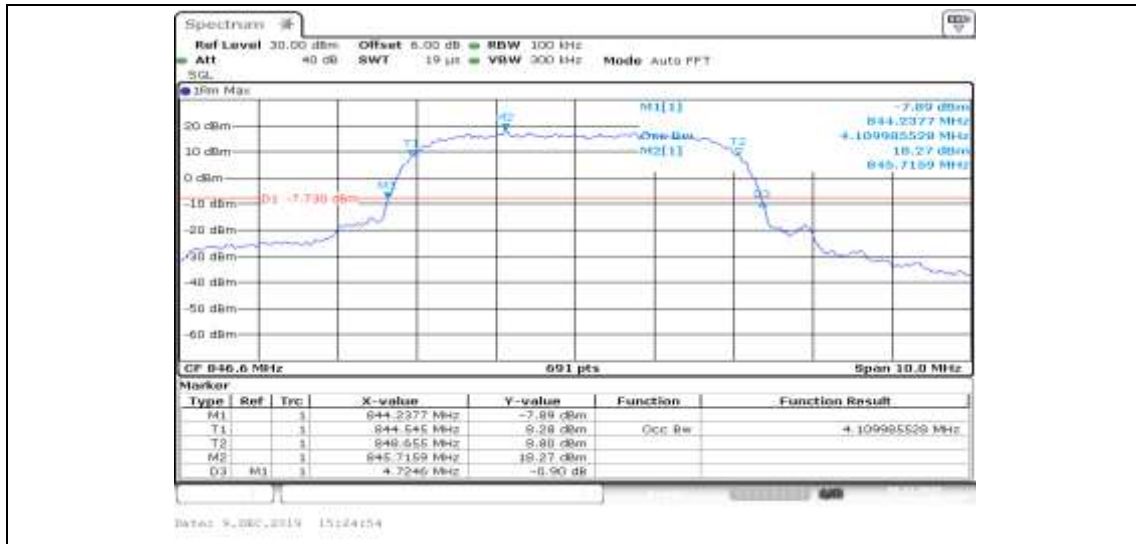
Band V-4233-HSUPA_Sub3



Band V-4233-HSUPA_Sub4



Band V-4233-HSUPA_Sub5



AppendixD:Band Edge

Test Result

WCDMA:

| Band | Channel | Value(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|---------|
| Band V | 4132 | -15.75 | -13 | PASS |
| Band V | 4233 | -18.02 | -13 | PASS |

HSDPA:

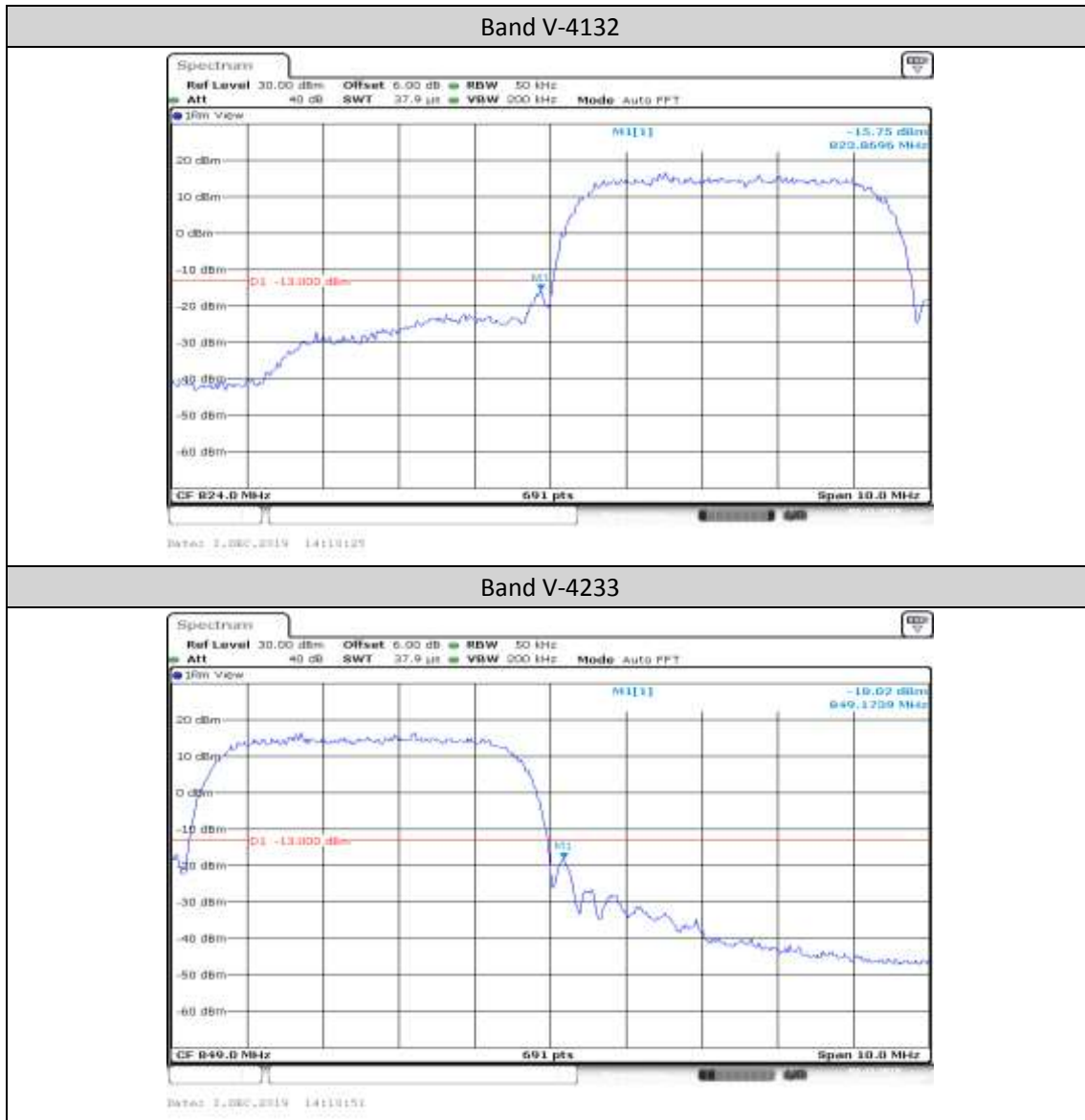
| Band | Channel | SubTest | Value(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|------------|---------|
| Band V | 4132 | HSDPA_Sub0 | -17.82 | -13 | PASS |
| Band V | 4132 | HSDPA_Sub1 | -15.67 | -13 | PASS |
| Band V | 4132 | HSDPA_Sub2 | -15.65 | -13 | PASS |
| Band V | 4132 | HSDPA_Sub3 | -16.31 | -13 | PASS |
| Band V | 4233 | HSDPA_Sub0 | -20.15 | -13 | PASS |
| Band V | 4233 | HSDPA_Sub1 | -17.76 | -13 | PASS |
| Band V | 4233 | HSDPA_Sub2 | -17.52 | -13 | PASS |
| Band V | 4233 | HSDPA_Sub3 | -17.57 | -13 | PASS |

HSUPA:

| Band | Channel | SubTest | Value(dBm) | Limit(dBm) | Verdict |
|--------|---------|------------|------------|------------|---------|
| Band V | 4132 | HSUPA_Sub1 | -14.95 | -13 | PASS |
| Band V | 4132 | HSUPA_Sub2 | -17.86 | -13 | PASS |
| Band V | 4132 | HSUPA_Sub3 | -14.35 | -13 | PASS |
| Band V | 4132 | HSUPA_Sub4 | -17.02 | -13 | PASS |
| Band V | 4132 | HSUPA_Sub5 | -14.86 | -13 | PASS |
| Band V | 4233 | HSUPA_Sub1 | -21.07 | -13 | PASS |
| Band V | 4233 | HSUPA_Sub2 | -20.21 | -13 | PASS |
| Band V | 4233 | HSUPA_Sub3 | -19.10 | -13 | PASS |
| Band V | 4233 | HSUPA_Sub4 | -20.92 | -13 | PASS |
| Band V | 4233 | HSUPA_Sub5 | -20.92 | -13 | PASS |

Test Graphs

WCDMA:



CTC Laboratories, Inc.

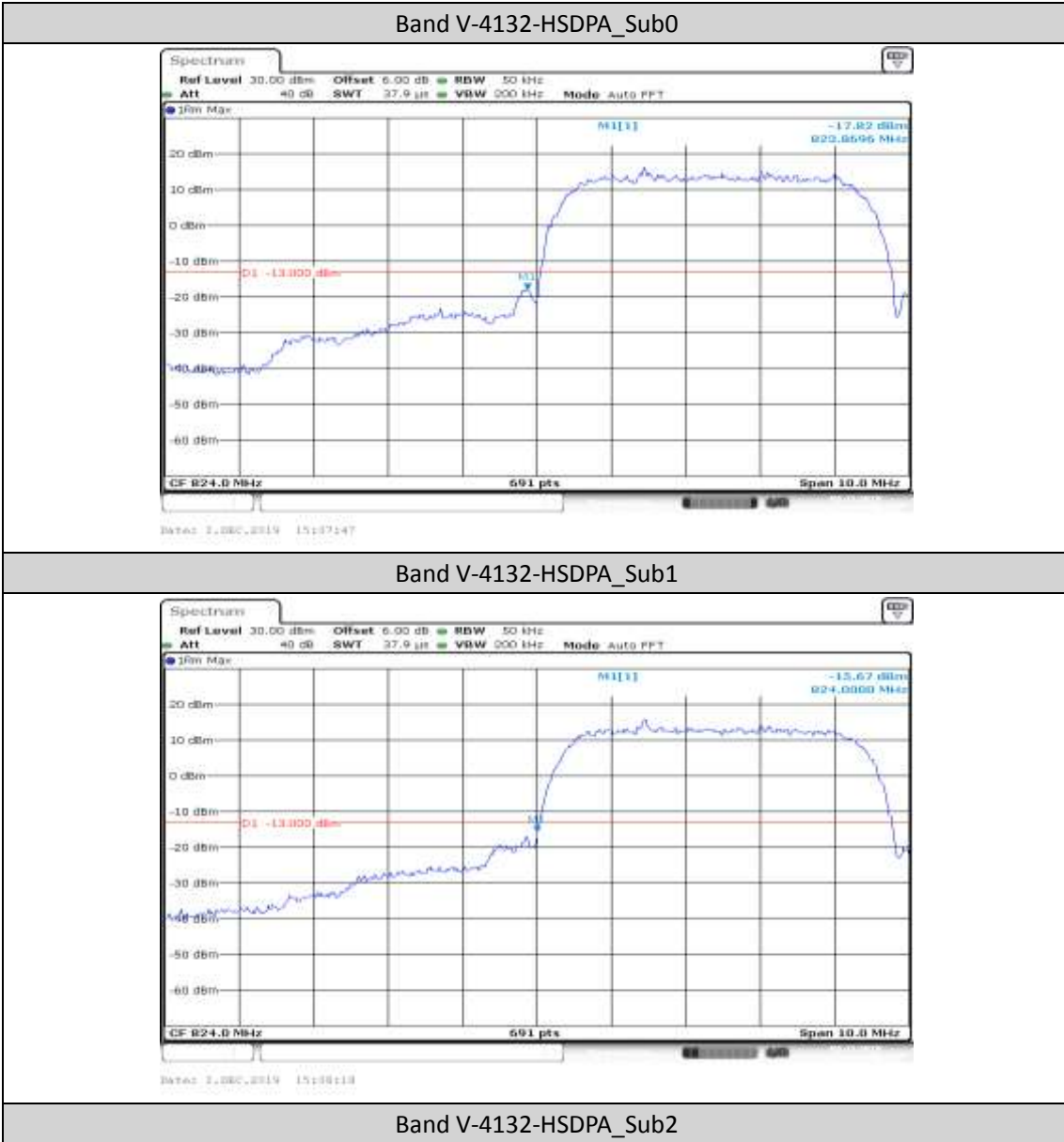
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

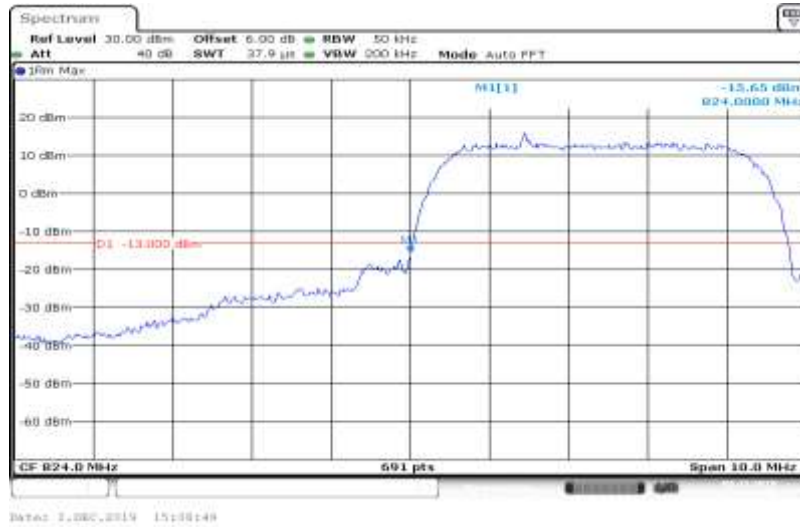
Tel.: (86)755-27521059

Fax: (86)755-27521011

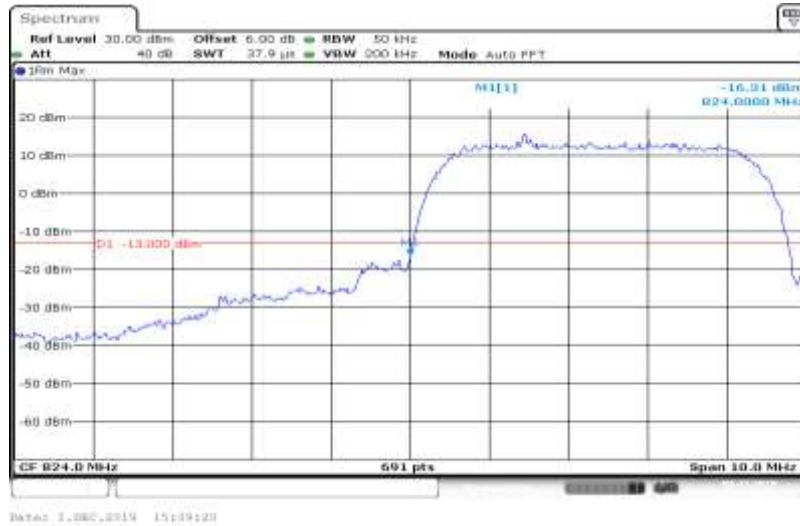
Http://www.sz-ctc.org.cn

HSDPA:

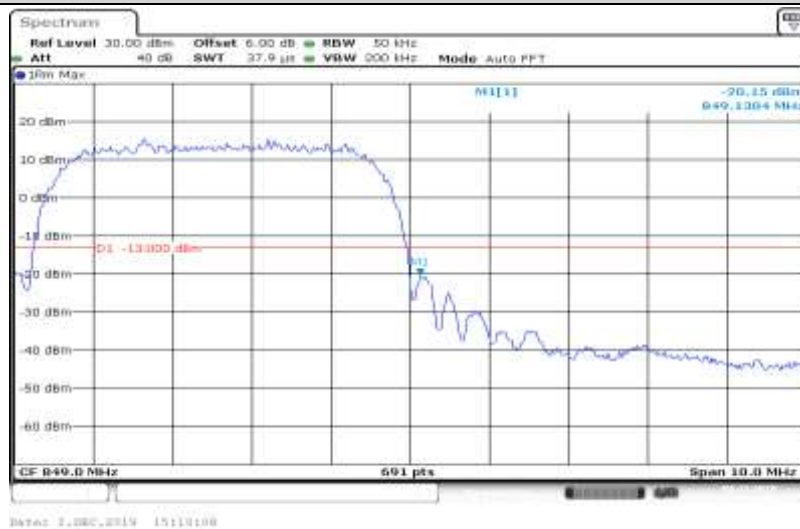




Band V-4132-HSDPA_Sub3



Band V-4233-HSDPA_Sub0



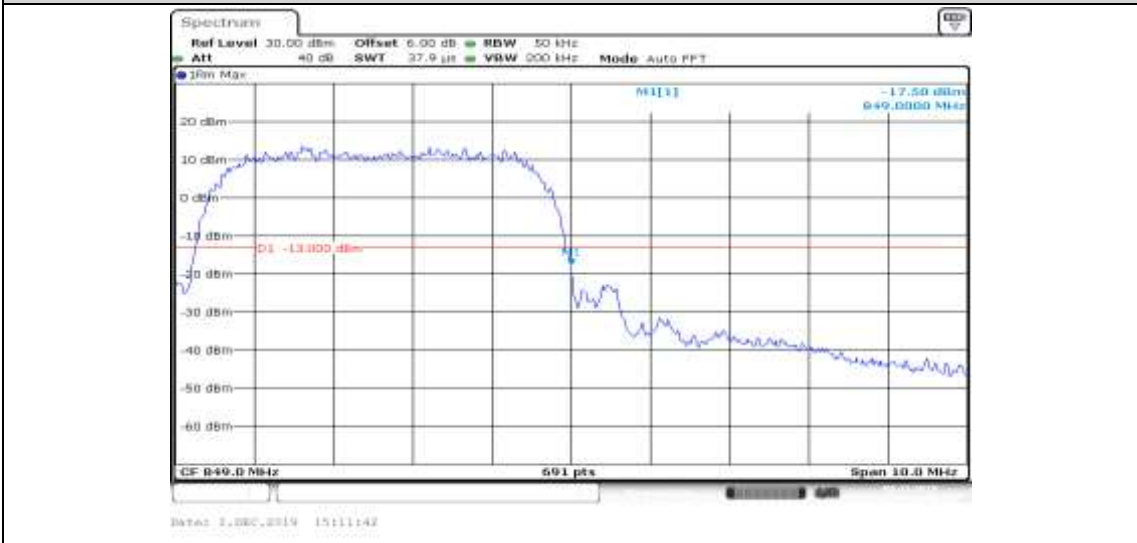
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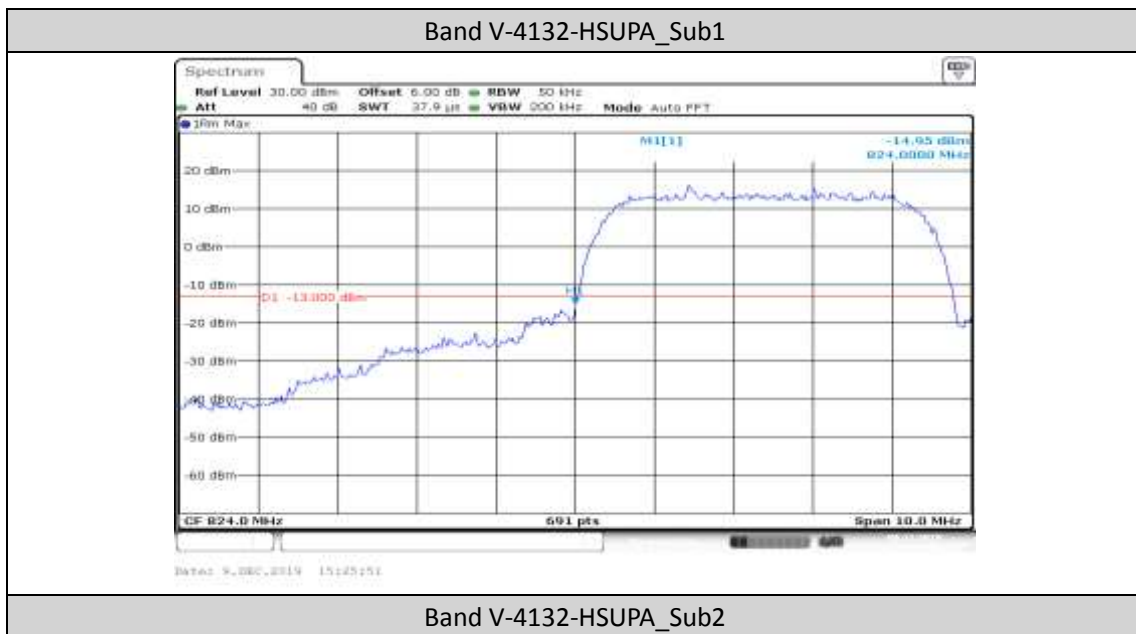
Band V-4233-HSDPA_Sub2



Band V-4233-HSDPA_Sub3



HSUPA:



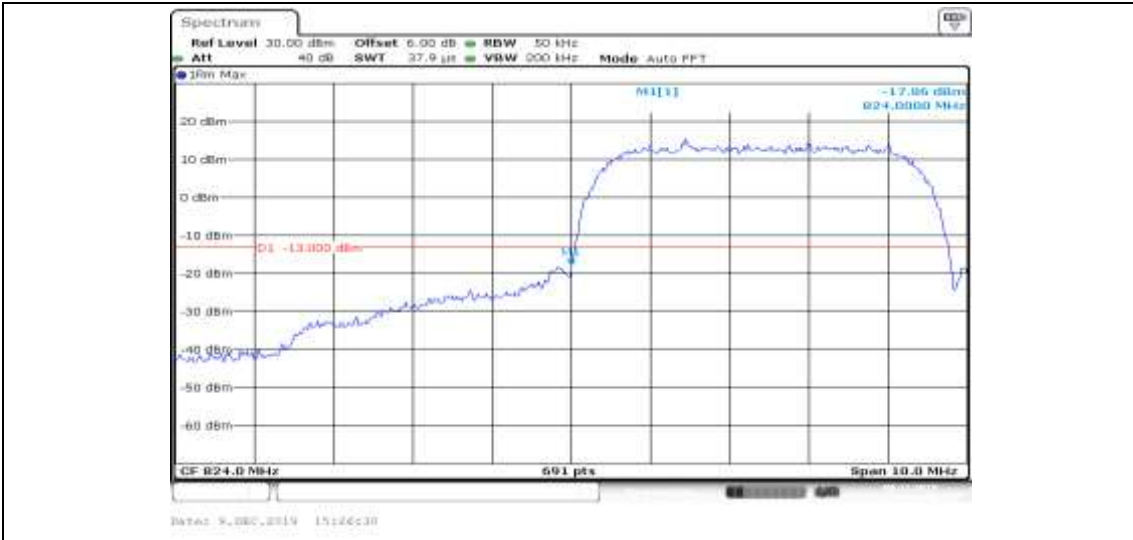
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

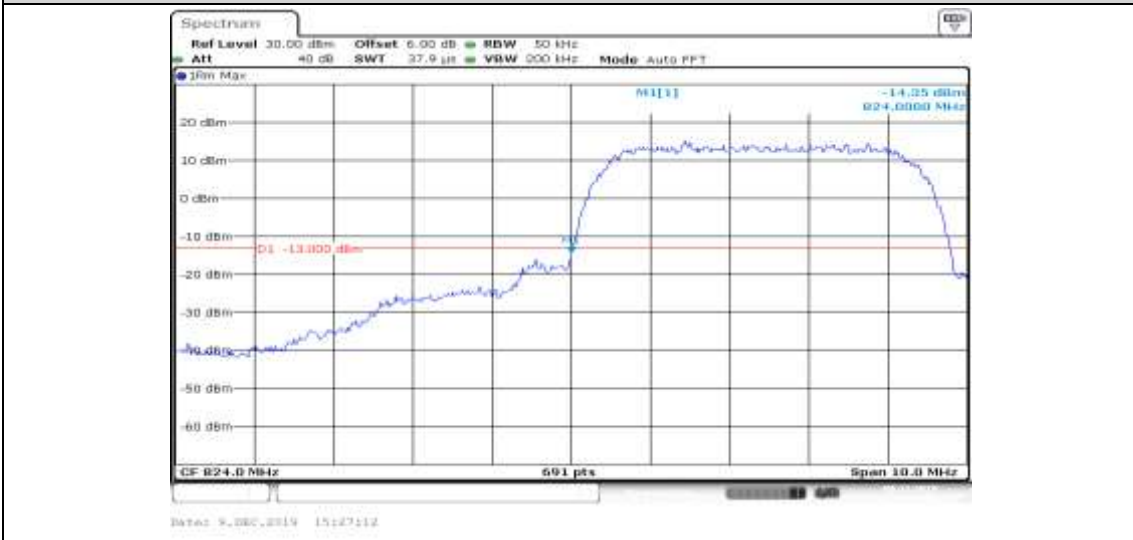
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Fax: (86)755-27521011

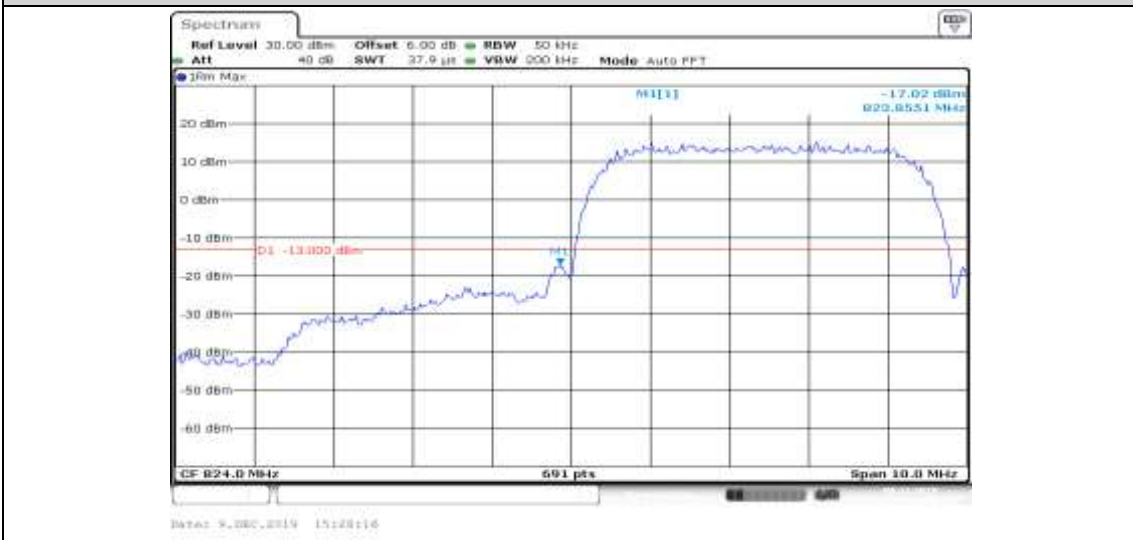
Http://www.sz-ctc.org.cn



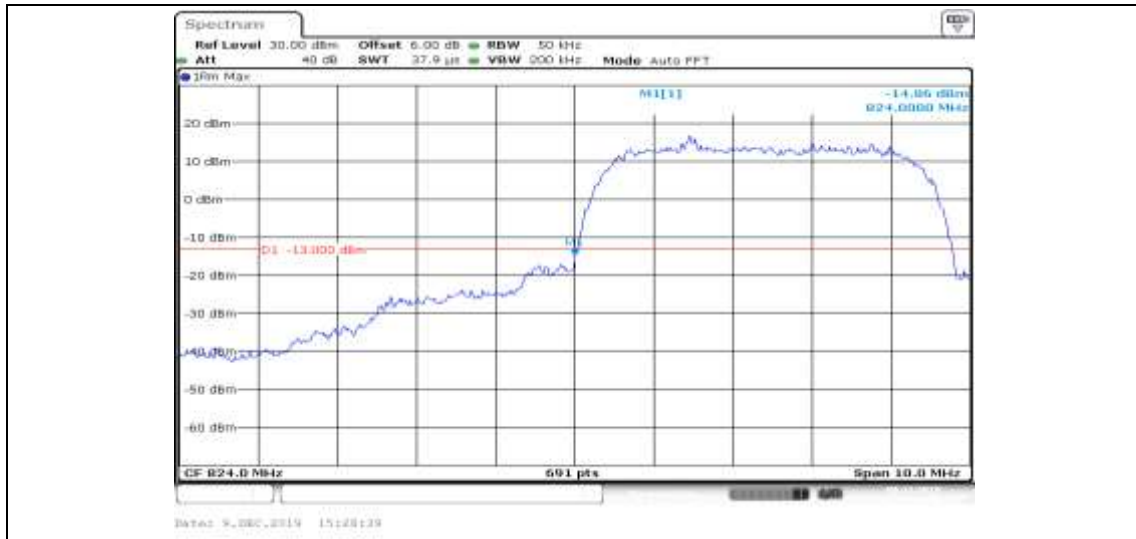
Band V-4132-HSUPA_Sub3



Band V-4132-HSUPA_Sub4



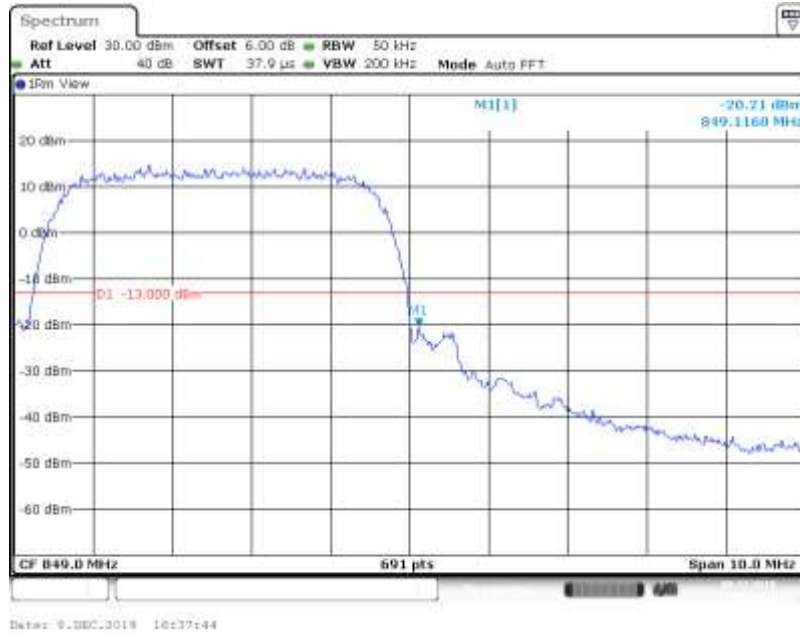
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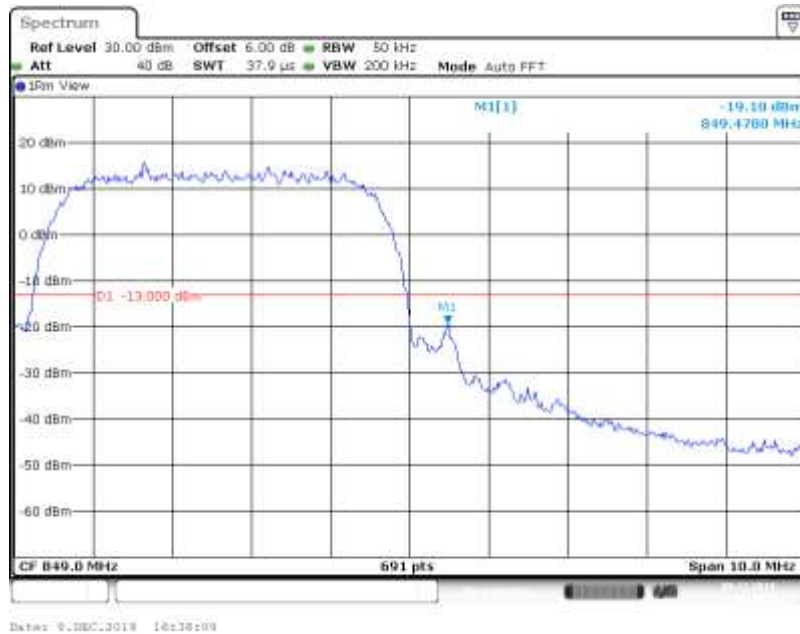
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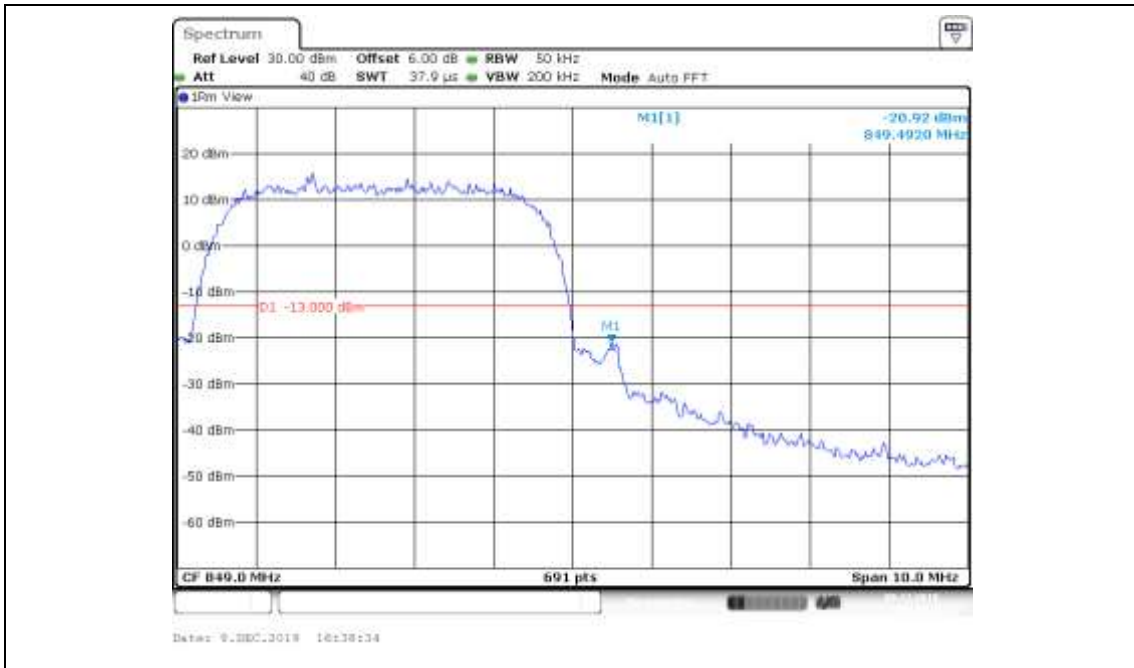
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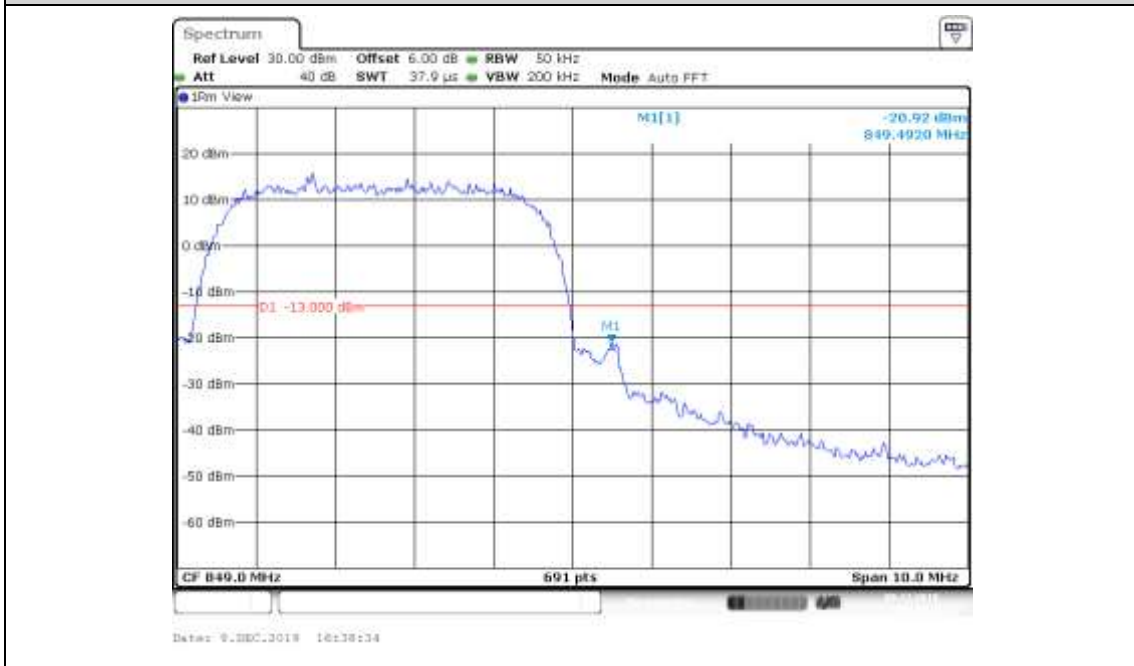
Band V-4233-HSUPA_Sub3



Band V-4233-HSUPA_Sub4



Band V-4233-HSUPA_Sub5



CTC Laboratories, Inc.

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