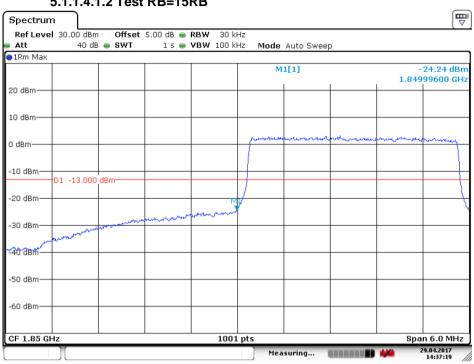


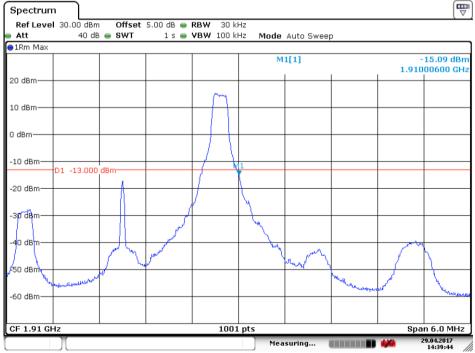
Report No.: SZEM171001110301 47 of 73 Page:



Date: 29.APR.2017 14:37:19







Date: 29.APR.2017 14:39:44

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5.1.1.4.1.2 Test RB=15RB



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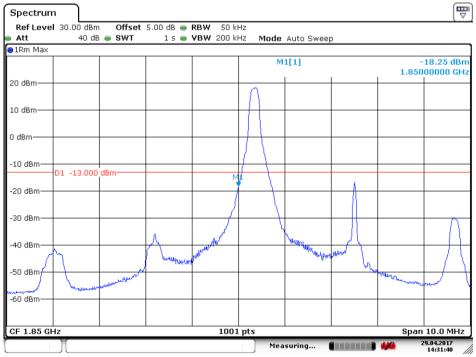
5.1.1.4.3 Test RB=15RB

Date: 29.APR.2017 14:40:31

5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 29.APR.2017 14:31:40

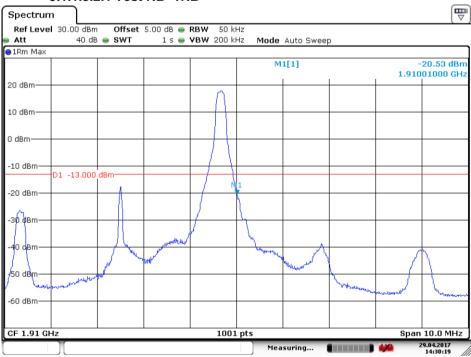


Report No.: SZEM171001110301 Page: 49 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ●1Rm Max M1[1] -20.01 dBn 1.84999000 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.85 GHz 29.04.2017 14:33:54 Measuring...

Date: 29.APR.2017 14:33:55





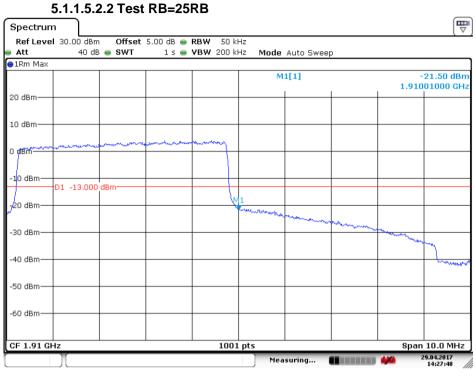
5.1.1.5.2.1 Test RB=1RB

5.1.1.5.1.2 Test RB=25RB

Date: 29.APR.2017 14:30:19



Report No.: SZEM171001110301 Page: 50 of 73

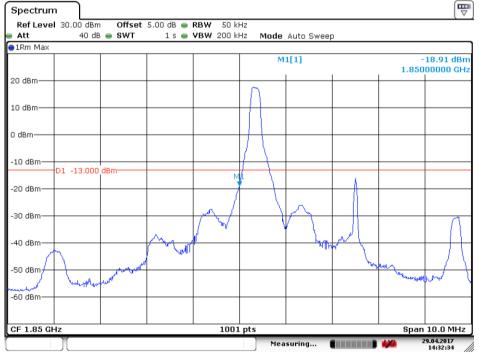


Date: 29.APR.2017 14:27:49

5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 29.APR.2017 14:32:34



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B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] -21.38 dBn 1.84999000 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.85 GHz 29.04.2017 14:33:20 Measuring...

Date: 29.APR.2017 14:33:19





5.1.1.6.2.1 Test RB=1RB

5.1.1.6.1.2 Test RB=25RB

Date: 29.APR.2017 14:29:41



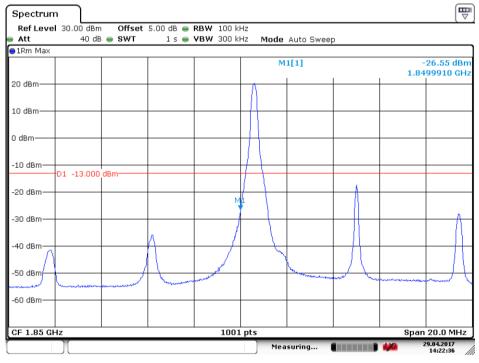
Report No.: SZEM171001110301 Page: 52 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] -21.79 dBn 1.91001000 GH 20 dBm-10 dBm· n di -10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm--60 dBm 1001 pts Span 10.0 MHz CF 1.91 GHz 29.04.2017 14:28:23 Measuring...

Date: 29.APR.2017 14:28:23

5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 29.APR.2017 14:22:36

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5.1.1.6.2.2 Test RB=25RB

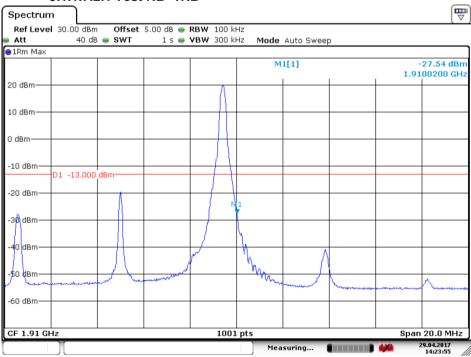


Report No.: SZEM171001110301 Page: 53 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 22.38 dBn 1.8499910 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.85 GHz 29.04.2017 14:20:17 Measuring... Concerned in the second second

Date: 29.APR.2017 14:20:17





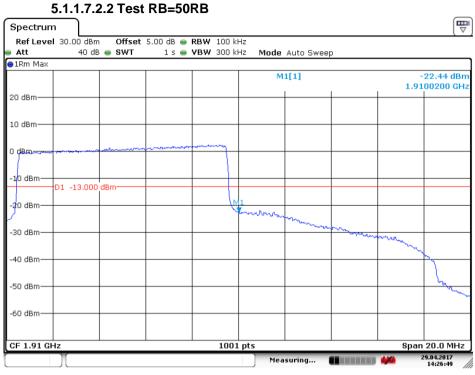
5.1.1.7.2.1 Test RB=1RB

5.1.1.7.1.2 Test RB=50RB

Date: 29.APR.2017 14:23:55



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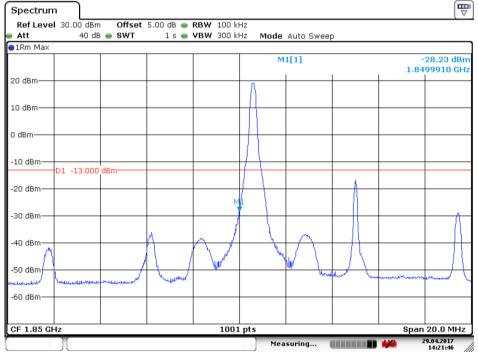


Date: 29.APR.2017 14:26:50

5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 29.APR.2017 14:21:46

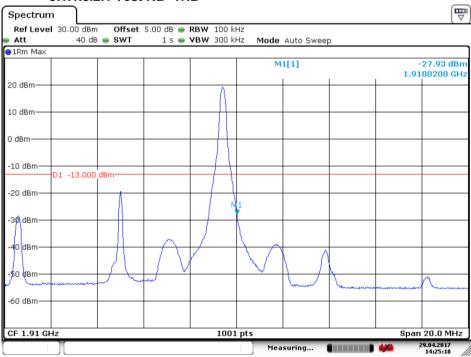


Report No.: SZEM171001110301 Page: 55 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 24.15 dBn 1.8499910 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm--50 dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.85 GHz 29.04.2017 14:21:04 Measuring...

Date: 29.APR.2017 14:21:05





5.1.1.8.2.1 Test RB=1RB

5.1.1.8.1.2 Test RB=50RB

Date: 29.APR.2017 14:25:18



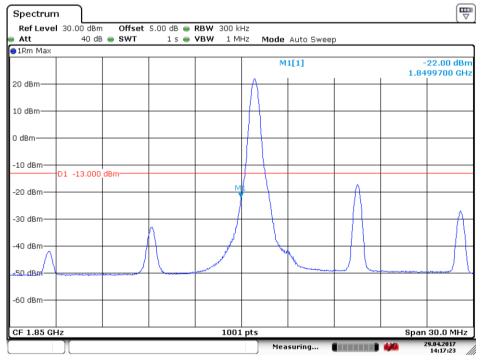
Report No.: SZEM171001110301 Page: 56 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 300 kHz Mode Auto Sweep ⊖1Rm Ma M1[1] 23.15 dBn 1.9100200 GH 20 dBm-10 dBm· 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm--40 dBm -50 dBm--60 dBm 1001 pts Span 20.0 MHz CF 1.91 GHz 29.04.2017 14:26:12 Measuring... Concerned.

Date: 29.APR.2017 14:26:12

5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 29.APR.2017 14:17:24

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5.1.1.8.2.2 Test RB=50RB

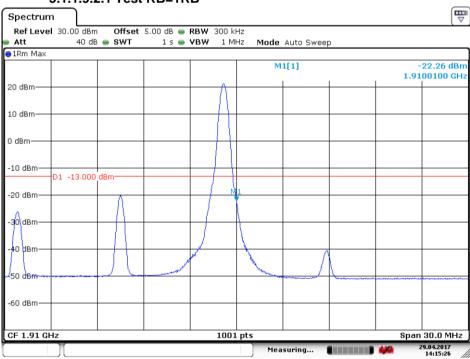


Report No.: SZEM171001110301 Page: 57 of 73

B Spectrum Ref Level 30.00 dBm Offset 5.00 dB 👄 RBW 300 kHz Att 40 dB 👄 SWT 1 s 👄 VBW 1 MHz Mode Auto Sweep ⊖1Rm Ma M1[1] -18.77 dBn 1.8499700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm; -40 dBm -50 dBm -60 dBm 1001 pts Span 30.0 MHz CF 1.85 GHz 29.04.2017 14:19:03 Measuring...

Date: 29.APR.2017 14:19:03





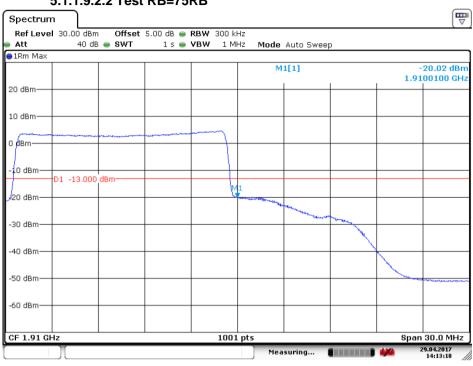
5.1.1.9.2.1 Test RB=1RB

5.1.1.9.1.2 Test RB=75RB

Date: 29.APR.2017 14:15:26



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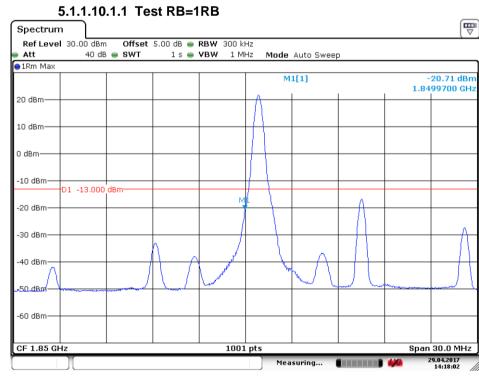


5.1.1.9.2.2 Test RB=75RB

Date: 29.APR.2017 14:13:18

5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH



Date: 29.APR.2017 14:18:02



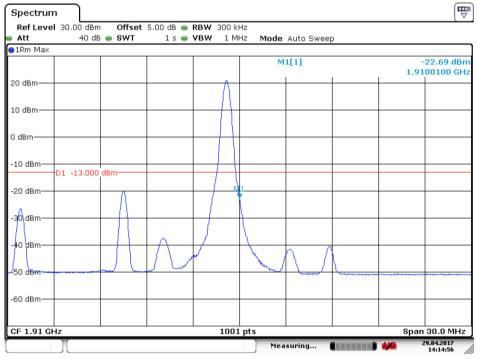
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5.1.1.10.1.2 Test RB=75RB

Date: 29.APR.2017 14:18:31





5.1.1.10.2.1 Test RB=1RB

Date: 29.APR.2017 14:14:57



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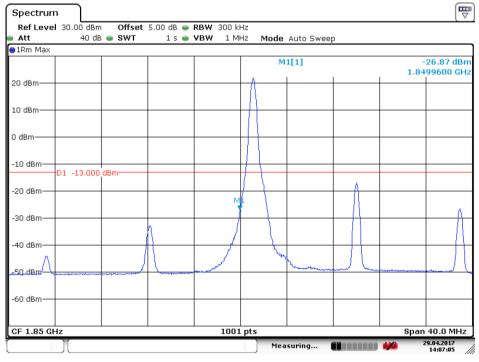


5.1.1.10.2.2 Test RB=75RB

Date: 29.APR.2017 14:14:06

5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 29.APR.2017 14:07:05

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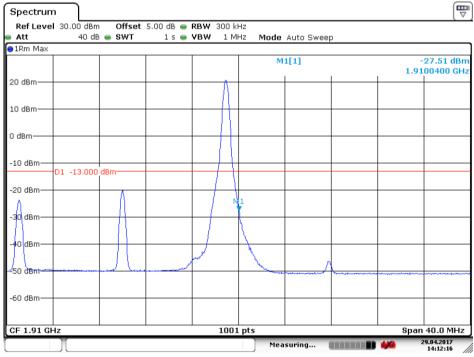
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5.1.1.11.1.2 Test RB=100RB

Date: 29.APR.2017 14:09:30





5.1.1.11.2.1 Test RB=1RB

Date: 29.APR.2017 14:12:16



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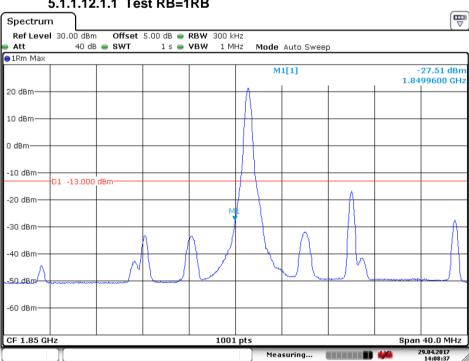


5.1.1.11.2.2 Test RB=100RB

Date: 29.APR.2017 14:10:30

5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH



5.1.1.12.1.1 Test RB=1RB

Date: 29.APR.2017 14:08:38

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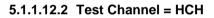


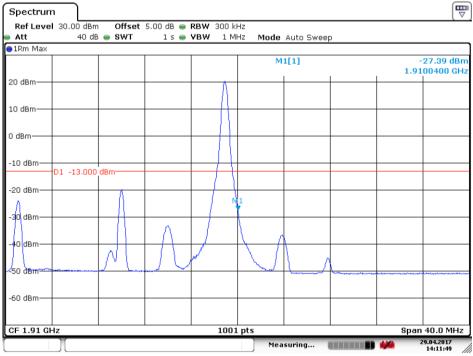
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5.1.1.12.1.2 Test RB=100RB

Date: 29.APR.2017 14:09:05





5.1.1.12.2.1 Test RB=1RB

Date: 29.APR.2017 14:11:49



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5.1.1.12.2.2 Test RB=100RB

Date: 29.APR.2017 14:11:10

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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 * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. Part L - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band2

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

₽ Spectrum Ref Level 20.00 dBm Offset 5.00 dB 👄 RBW 100 kHz 25 dB Att SWT 1.1 ms 👄 **VBW** 300 kHz Mode Auto FFT ●1Pk Max M1[1] -56.49 dBn 950.0720 MH 10 dBm 0 dBm -10 dBm· D1 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm M1 -60 ⁻¹8m--70 dBm Start 30.0 MHz 20001 pts Stop 1.0 GHz Measuring... 29.04.2017 16:27:46

6.1.1.1.1 Test Channel = LCH

Date: 29.APR.2017 16:27:47

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| | | | | | | | | | eport No. age: | : SZEM17100111 66 of 73 | 10301 |
|---|---------------------------|--|--|--|---|--|---|--|---------------------------------|----------------------------|-------|
| Spectrum | | | | | | | | | | | |
| Ref Level | | m Offset | 5.00 dB 👄 I | RRW 1 MHz | | | | | [\Box] | | |
| Att 🗧 | 25 (| | | BW 3 MHz | Mode Au | ito Sweep | | | | | |
| ●1Pk Max | | | | 1 | | | | | | | |
| | | | | | M | 1[1] | | | 35.20 dBm 02340 GHz | | |
| 10 dBm | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | |
| -10 dBm— | D1 -13.00 | 0 dBm | | | | | | | | | |
| -20 dBm— | | | | | | | | | | | |
| -30 dBm—- | | | M1 | | | | | | | | |
| -40 dBm | | | | | التقرير المطروي | ana antinin' | | | | | |
| -50.d8m-d | العالجين وراقتهم | and the strength of the | and it is a shirt of the second second | | a palation of the second | a sector and the first of | ومرجع المتعادية المتعادية | | freedown of a state of the | | |
| -60 dBm | den sidt her fin men sidt | | | | | | a Diserve produced and a second second | Sandapan ang ang ang ang ang ang ang ang ang a | and the star party the party of | | |
| -70 dBm | | | | | | | | | | | |
| Phart 1.0.0 | 11- | | | 2000 | 1. 1. 1. 1. | | | Stor | 10.0 GHz | | |
| Start 1.0 G | | | | 2000 | | suring | | | 29.04.2017 16:50:36 | | |
| Date: 29.APR. Spectrum Ref Level | 20.00 dB | m Offset | 5.00 dB 👄 I | | | | | | | | |
| Att 1Pk Max | 25 (| IB SWT | 30 ms 😑 🕻 | VBW 3 MHz | Mode Au | ito Sweep | | | | | |
| | | | | | м | 1[1] | | | 46.27 dBm 37260 GHz | | |
| 10 dBm | | | | | | | | | | | |
| 0 dBm | | | | | | | | | | | |
| -10 dBm | D1 -13.00 | 0 dBm | | | | | | | | | |
| -20 dBm | | | | | | | | | | | |
| -30 dBm | | | | | | | | | | | |
| -40 dBm | | | | | | | | | M1 | | |
| _5Q,dBch | and the second | THE REAL PROPERTY OF | a share the second | and the second s | and the state of the state of the | and the second s | a sea la fala da fala d | line and an and | and the state | | |
| and a second provide a second s | Installing State | the state of the s | the second second | Charles and Street and | and the second se | Contraction of Street, or other | No. of Concession, and the second | ¹³ Presidential de la presidential de la presidentia de la presid | and an a state of the second | | |
| -60 dBm | | | | | | | | | | | |
| -70 dBm | | | | | | | | | | | |
| Start 10.0 | GHz | | | 2000 | 1 pts | I | | Stop | 20.0 GHz | | |
| | | | | | <u>`</u> | suring | | | 16.05.2017 16:47:50 | | |

Date: 16.MAY.2017 16:47:51

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| Spectrur | n] | | | | | | | | |
|---|------------------------------|---------------|--------------------------------|------------------------|---------------------------|--------------------------|--------------|-------------------|---|
| | 1 20.00 dBm | | | RBW 100 kH | | | | | |
| Att 1Pk Max | 25 dB | SWT | 1.1 ms 📟 | VBW 300 kH | 12 Mode . | Auto FFT | | | |
| | | | | | M | 1[1] | | | -55.86 dBm |
| 10 dBm | | | | | | I | I | 949 | 9.7320 MHz |
| 10 dBm- | | | | | | | | | |
| 0 dBm | | | | | | | | | |
| 0.0011 | | | | | | | | | |
| -10 dBm— | | | | | | | | | |
| | D1 -13.000 | dBm | | | | | | | |
| -20 dBm | | | | | | | | | |
| | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| 10 10 | | | | | | | | | |
| -40 dBm— | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| -30 abiii | | | | | | | | | M1 |
| -69/ ⁻¹⁸ m | والمتعامل والمراجع | | | | a tite of an and a strike | an to alter to did th | | And an a bandle | and the state of the |
| | dealer was used a particular | | a piteline interiore destantes | | dang si pang gan ja | and black the discussion | "Tupperson 1 | a strated and the | antenne "treaser |
| -70 dBm | | | | | | | | | |
| | | | | | | | | | |
| Start 30.0 | MHz | | | 2000 | 1 pts | | | Sto | op 1.0 GHz |
| |)(| | | | | suring | | | 29.04.2017 16:28:15 |
| | | | | | | | | | |
| | .2017 16:28:1 | 5 | | | | | | | |
| Spectrur | n | | | | | | | | |
| Spectrur Ref Leve | n 1 20.00 dBm | Offset | | RBW 1 MHz VBW 3 MHz | | ito Sweep | | | |
| Spectrur | n | Offset | | RBW 1 MHz VBW 3 MHz | | ito Sweep | | | |
| Spectrur Ref Leve Att | n 1 20.00 dBm | Offset | | | Mode Au | ito Sweep | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max | n 1 20.00 dBm | Offset | | | Mode Au | | | | |
| Spectrur Ref Leve Att | n 1 20.00 dBm | Offset | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max | n 1 20.00 dBm | Offset | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max | n 1 20.00 dBm | Offset | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max 10 dBm- 0 dBm- | n 1 20.00 dBm | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 1Pk Max 10 dBm- 0 dBm- | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att IPk Max 0 dBm | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- | n | Offset SWT | | | Mode Au | | | | -35.95 dBm |
| Spectrur Ref Leve Att IPk Max 0 dBm | n | Offset SWT | | | Mode Au | 1[1] | | | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- | n | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- | n | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm | n | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm | n | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm | n | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |
| Spectrur Ref Leve Att 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm | n 25 dB | Offset SWT | | | Mode Au | 1[1] | | 5.6 | -35.95 dBm |

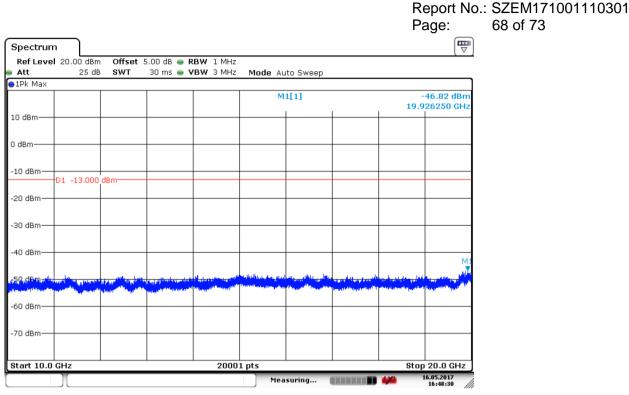
6.1.1.1.2 Test Channel = MCH

Date: 29.APR.2017 16:49:47

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Date: 16.MAY.2017 16:48:30



| Spectrum | τ | | | | | | | |
|---------------------|------------|-----|----------------------|-------------------|--------|----------|-----|--|
| | 20.00 dBm | | 5.00 dB 👄 🖡 | | | | | |
| Att | 25 dB | SWT | 1.1 ms 👄 🕻 | /BW 300 kH | z Mode | Auto FFT | | |
| ⊜1Pk Max | | | | | | | | |
| | | | | | M | 1[1] | | -56.98 dBn 2.5450 MH |
| 10 dBm | | | | | | | 907 | |
| 0 dBm—— | | | | | | | | |
| -10 dBm | | | | | | | | |
| -20 dBm | D1 -13.000 | dBm | | | | | | |
| -30 dBm | | | | | | | | |
| -40 dBm | | | | | | | | |
| | | | | | | | | |
| -50 dBm | | | | | | | | M1 |
| -60 ^H BM | | | an taning the second | | | | | and the second s |
| -70 dBm | | | | | | | | |
| Start 30.0 | MHz | | | 2000 | 1 pts | | Sto | p 1.0 GHz |
| | | | | | Mea | isuring | 444 | 29.04.2017 16:28:43 |

Date: 29 APR 2017 16:28:43

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| | | | | | | | | P | age: |
|-------------------------------|---|---------------------------|--|--|-------------------------------------|-----------------------------|----------------------------|---|--|
| Spectrur | n | | | | | | | | |
| | el 20.00 dBm | Offset | 5.00 dB 🥌 🖪 | RBW 1 MHz | | | | | (• |
| Att | 25 dB | SWT | 27 ms 😑 🎙 | BW 3 MHz | Mode Au | ito Sweep | | | |
| 1Pk Max | | | | | M | 1[1] | | | 32.56 dBm |
| | | | | | | 1[1] | | | 82440 GHz |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
|) dBm—— | | | | | | | | | |
| 10 d0m | | | | | | | | | |
| -10 dBm— | D1 -13.000 | dBm | | | | | | | |
| -20 dBm | | | | | | | | | |
| | | | | | | | | | |
| -30 dBm | | | 41 | | | | | | |
| | | | IT | | | | | | |
| -40 dBm— | | | | | | | | | |
| | | ւ ս Ասետու է | manushia | المروقتان وسادر وسيريا | and shirts for the | die de la faite de la faite | | | |
| 50id9mH | | | And a second second second | 1000 Contraction 1000 | | land. | diagone and parts | | |
| co do- | | | | | | | | all state of the second se | |
| -60 dBm | | | | | | | | | |
| -70 dBm | | | | | | | | | |
| , o abiii | | | | | | | | | |
| | | | | | | | | | 10.0.011 |
| Start 1.0 (| GHZ | | | 2000 | | suring | | | 10.0 GHz |
| Spectrur Ref Leve Att | n el 20.00 dBm 25 dB | | 5.00 dB 👄 R 30 ms 👄 V | BW 1 MHz | Mode Au | ito Sweep | | | |
|)1Pk Max | | | | | | | | | |
| | | | | | м | 1[1] | | | 46.83 dBm 28750 GHz |
| 10 dBm | | | | | | | l | 19.9 | 28730 GHZ |
| | | | | | | | | | |
|) dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm— | D1 -13.000 | dBm | | | | | | | |
| | 10.000 | | | | | | | | |
| -20 dBm— | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| | | | | | | | | | |
| 40 dBm— | | | | | | | | | |
| | | | | | | | | | MI |
| 50,dPm.trd | and a state of the state of the | and a state of the second | and the party of the second second | International Contraction of the other | na Majaran Mata | مليبه والأسيري | and the part of the second | ann fraite an te | and the second |
| ana ana kabupatén kabupatén k | and the second se | hand a second | They and the state of the state | A THE REPORT OF THE REPORT OF | Columnities, 14 | ALL THE ST | | a line of the second | يعلقن يربلهم |
| -60 dBm— | | | | | | | | | |
| - | | | 1 | | | | | | |
| | | 1 | | | | | | | |
| -70 dBm | | | | | | | | | |
| | | | | | | | | | |
| -70 dBm— Start 10.0 |) GHz | | | 2000 | · · | suring | | | 20.0 GHz 16.05.2017 16:48:58 |

Date: 16.MAY.2017 16:48:58

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

| 7.1.1.1.1 | Test Channel = MC | СН | | |
|-----------------|-------------------|------------------|-----------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
| 73.850000 | -72.05 | -13.00 | -59.05 | Vertical |
| 164.350000 | -70.50 | -13.00 | -57.50 | Vertical |
| 1523.000000 | -63.09 | -13.00 | -50.09 | Vertical |
| 3741.975000 | -58.33 | -13.00 | -45.33 | Vertical |
| 5613.325000 | -61.43 | -13.00 | -48.43 | Vertical |
| 7484.350000 | -57.88 | -13.00 | -44.88 | Vertical |
| 72.300000 | -77.01 | -13.00 | -64.01 | Horizontal |
| 163.250000 | -70.46 | -13.00 | -57.46 | Horizontal |
| 1199.500000 | -67.07 | -13.00 | -54.07 | Horizontal |
| 3741.975000 | -50.70 | -13.00 | -37.70 | Horizontal |
| 5613.325000 | -54.79 | -13.00 | -41.79 | Horizontal |
| 7484.350000 | -53.97 | -13.00 | -40.97 | Horizontal |

NOTE:

1) 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.



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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 |
|--------------|---------------|-----------------|---------------|---------------|---------------------|--------------------------|---------|
| | | | | VL | -2.03 | -0.00109 | PASS |
| | | LCH | TN | VN | 1.46 | 0.00078 | PASS |
| | | | | VH | -7.73 | -0.00416 | PASS |
| | | | | VL | 1.49 | 0.00079 | PASS |
| | LTE/TM1 20MHz | MCH | TN | VN | -2.84 | -0.00151 | PASS |
| | | | | VH | 2.60 | 0.00138 | PASS |
| | | НСН | | VL | -6.56 | -0.00345 | PASS |
| | | | TN | VN | -5.17 | -0.00272 | PASS |
| LTEband2 | | | | VH | -4.79 | -0.00252 | PASS |
| LIEDanuz | | | TN | VL | -4.28 | -0.00230 | PASS |
| | | LCH | | VN | -2.95 | -0.00159 | PASS |
| | | | | VH | -5.16 | -0.00277 | PASS |
| | | | | VL | 1.56 | 0.00083 | PASS |
| | LTE/TM2 20MHz | MCH | TN | VN | -2.80 | -0.00149 | PASS |
| | | | | VH | 2.59 | 0.00138 | PASS |
| | | | | VL | -3.08 | -0.00162 | PASS |
| | | HCH | TN | VN | -8.00 | -0.00421 | PASS |
| | | | | VH | 5.44 | 0.00286 | PASS |



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8.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|--------------|---------------|-----------------|---------------|---------------|------------------------|--------------------------|---------|
| | | | | -30 | -3.55 | -0.00191 | PASS |
| | | | | -20 | -1.34 | -0.00072 | PASS |
| | | | | -10 | 2.38 | 0.00128 | PASS |
| | | | | 0 | 1.75 | 0.00094 | PASS |
| | | LCH | VN | 10 | 1.65 | 0.00089 | PASS |
| | | | | 20 | 3.11 | 0.00167 | PASS |
| | | | | 30 | -6.31 | -0.00339 | PASS |
| | | | | 40 | -0.14 | -0.00008 | PASS |
| | | | | 50 | 2.59 | 0.00139 | PASS |
| | | | | -30 | -7.80 | -0.00415 | PASS |
| | | | VN | -20 | -5.95 | -0.00316 | PASS |
| | | | | -10 | -7.49 | -0.00398 | PASS |
| | | | | 0 | -5.62 | -0.00299 | PASS |
| LTEband2 | LTE/TM1 20MHz | MCH | | 10 | -4.04 | -0.00215 | PASS |
| | | | | 20 | -9.94 | -0.00529 | PASS |
| | | | | 30 | -5.23 | -0.00278 | PASS |
| | | | | 40 | -4.62 | -0.00246 | PASS |
| | | | | 50 | -6.92 | -0.00368 | PASS |
| | | | | -30 | 7.54 | 0.00397 | PASS |
| | | | | -20 | -1.49 | -0.00078 | PASS |
| | | | | -10 | 1.53 | 0.00081 | PASS |
| | | | | 0 | -2.83 | -0.00149 | PASS |
| | | НСН | VN | 10 | 2.60 | 0.00137 | PASS |
| | | | | 20 | -4.57 | -0.00241 | PASS |
| | | | | 30 | -2.66 | -0.00140 | PASS |
| | | | | 40 | -5.43 | -0.00286 | PASS |
| | | | | 50 | -3.90 | -0.00205 | PASS |



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| | | | | | Page: | 73 of 73 | |
|--------------|---------------|-----------------|---------------|---------------|------------------------|--------------------------|---------|
| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
| | | | | -30 | -5.50 | -0.00296 | PASS |
| | | | | -20 | -2.45 | -0.00132 | PASS |
| | | | | -10 | 3.38 | 0.00182 | PASS |
| | | | | 0 | 1.64 | 0.00088 | PASS |
| | | LCH | VN | 10 | 1.90 | 0.00102 | PASS |
| | | | | 20 | -2.23 | -0.00120 | PASS |
| | | | | 30 | -0.44 | -0.00024 | PASS |
| | | | | 40 | 5.34 | 0.00287 | PASS |
| | | | | 50 | 6.79 | 0.00365 | PASS |
| | | | | -30 | -3.80 | -0.00202 | PASS |
| | | | | -20 | -5.38 | -0.00286 | PASS |
| | | | | -10 | -7.29 | -0.00388 | PASS |
| | | | | 0 | -4.32 | -0.00230 | PASS |
| LTEband2 | LTE/TM2 20MHz | MCH | VN | 10 | -2.34 | -0.00124 | PASS |
| | | | | 20 | 1.74 | 0.00093 | PASS |
| | | | | 30 | -5.64 | -0.00300 | PASS |
| | | | | 40 | -2.62 | -0.00139 | PASS |
| | | | | 50 | -3.91 | -0.00208 | PASS |
| | | | | -30 | 1.34 | 0.00071 | PASS |
| | | | | -20 | -2.55 | -0.00134 | PASS |
| | | | | -10 | 1.59 | 0.00084 | PASS |
| | | | | 0 | -5.73 | -0.00302 | PASS |
| | | HCH | VN | 10 | 1.88 | 0.00099 | PASS |
| | | | | 20 | -3.47 | -0.00183 | PASS |
| | | | | 30 | -2.59 | -0.00136 | PASS |
| | | | | 40 | -4.33 | -0.00228 | PASS |
| | | | | 50 | -6.60 | -0.00347 | PASS |

The End

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