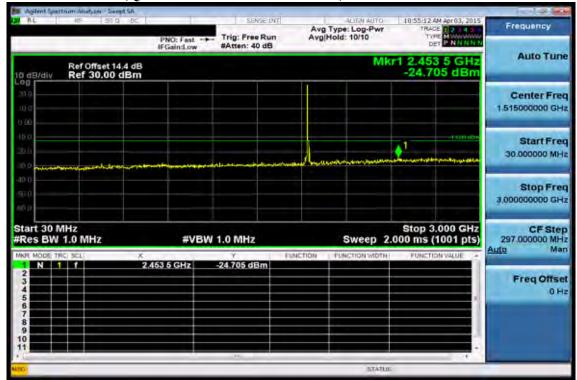
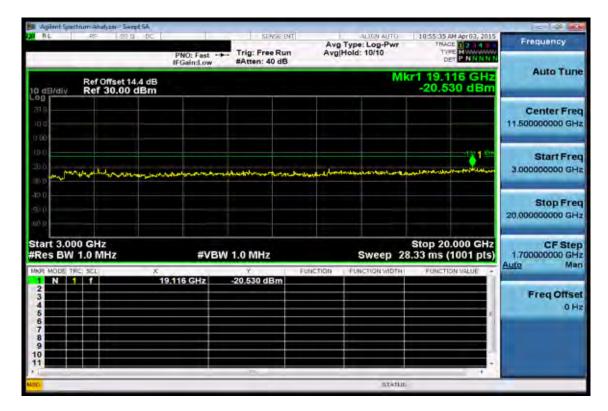


Out of Band emission at antenna terminals-15MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





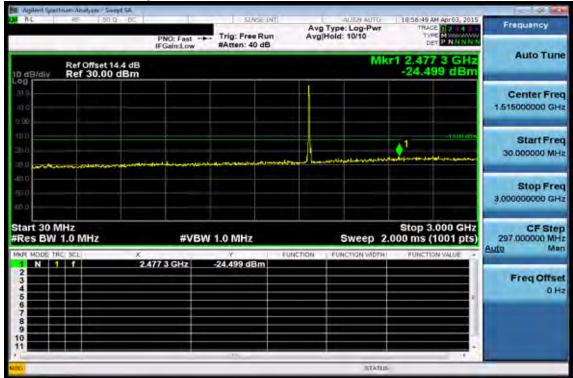
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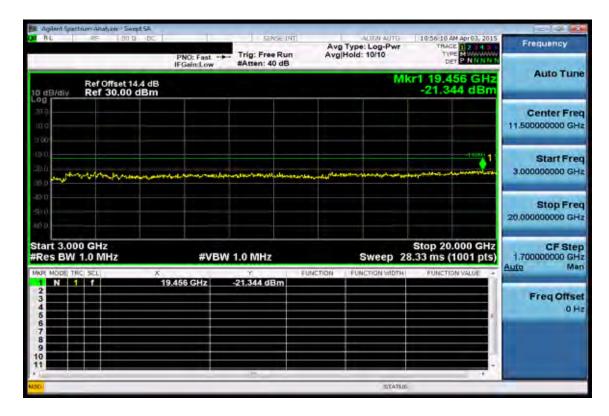
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## Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

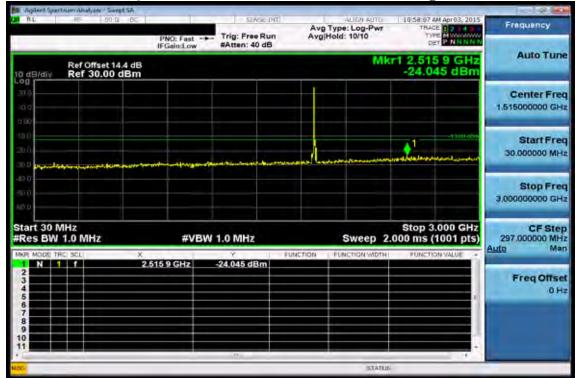


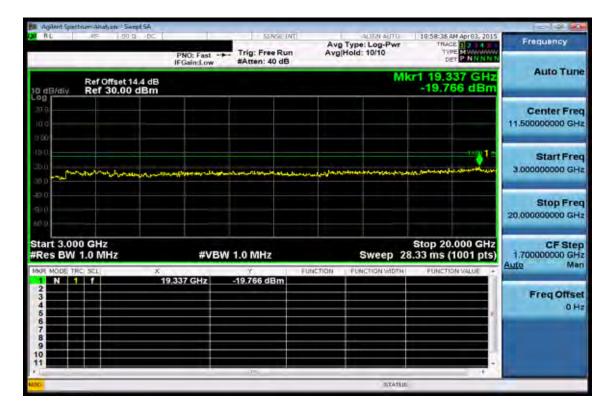


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## Out of Band emission at antenna terminals-15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest

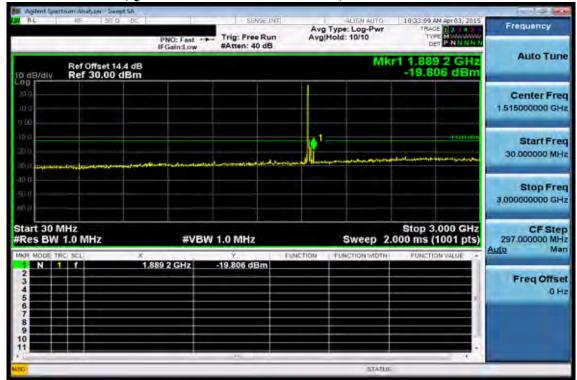


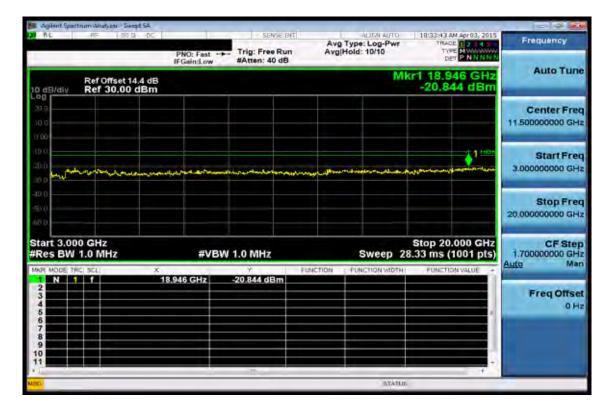
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Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





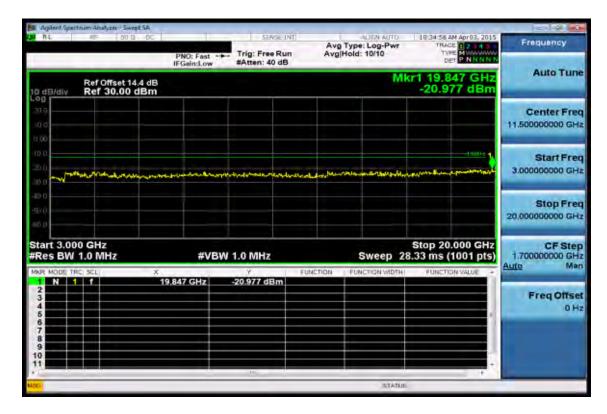
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#### Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



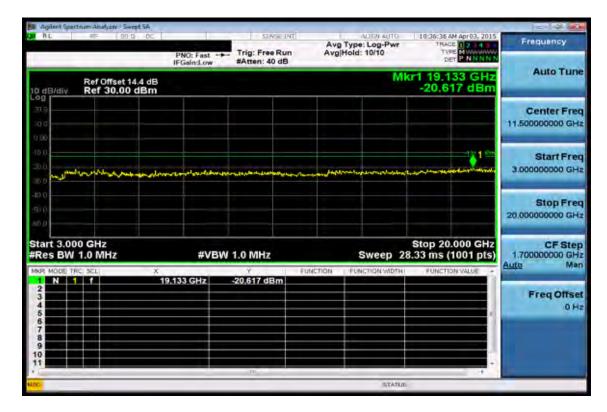


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### Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



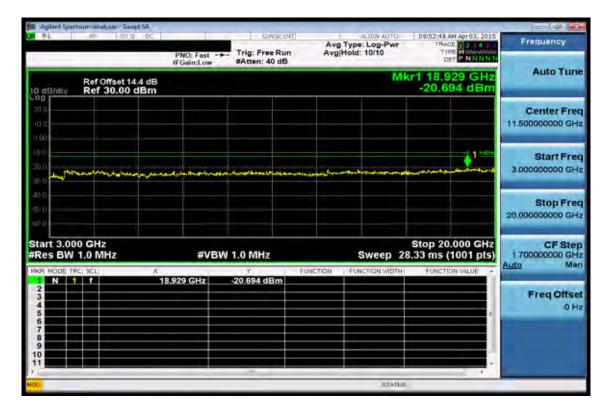
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Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





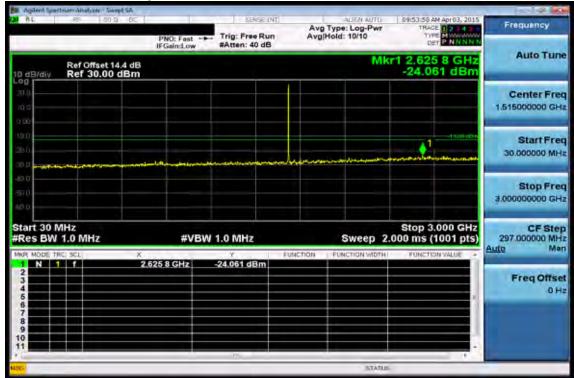
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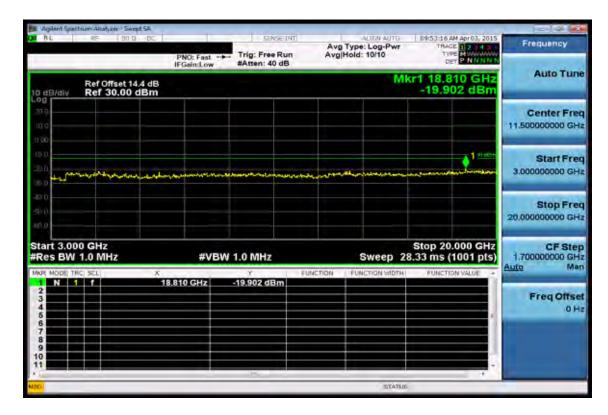
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## Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





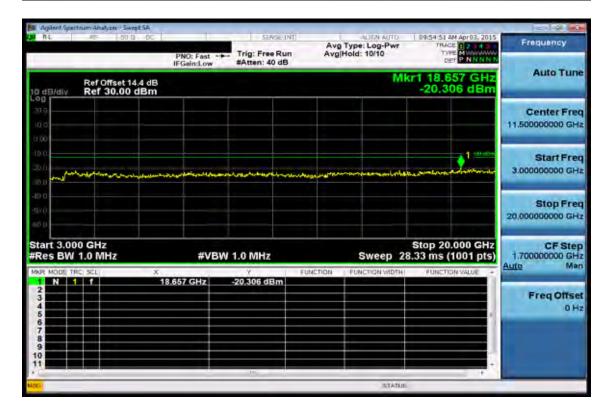
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## Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



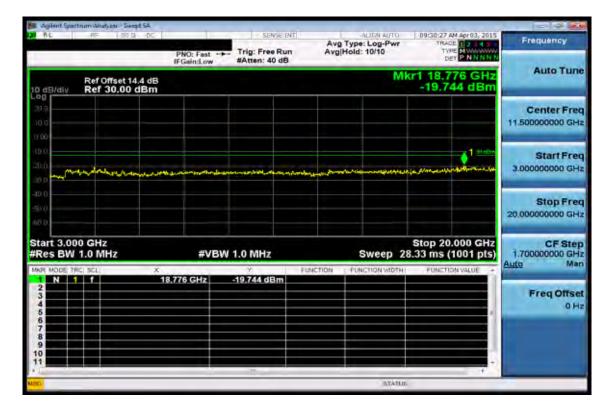
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Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





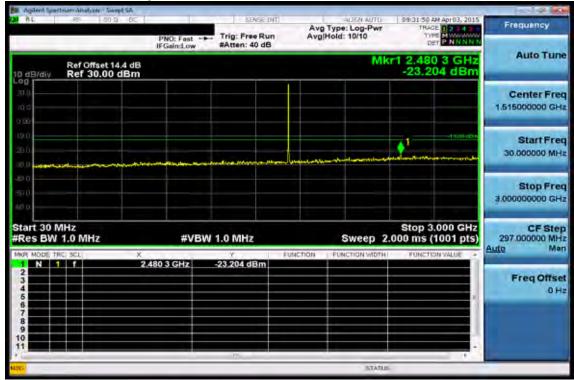
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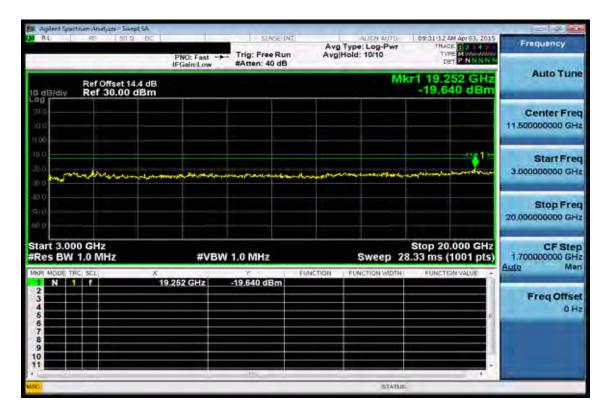
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# Out of Band emission at antenna terminals -3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



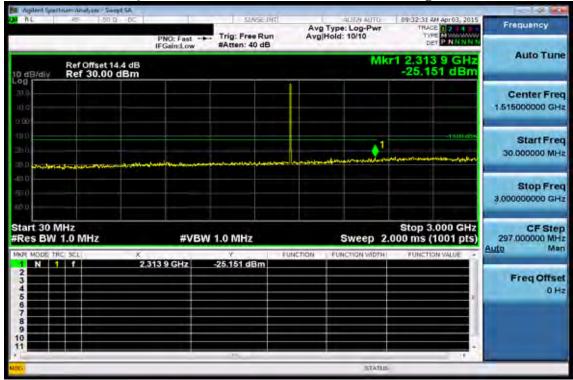


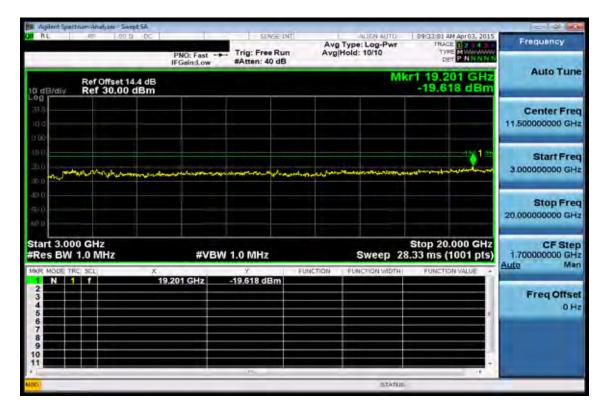
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## Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



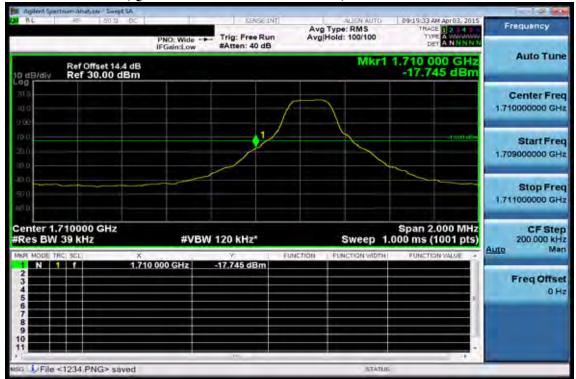


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Band edge emission at antenna terminals -3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



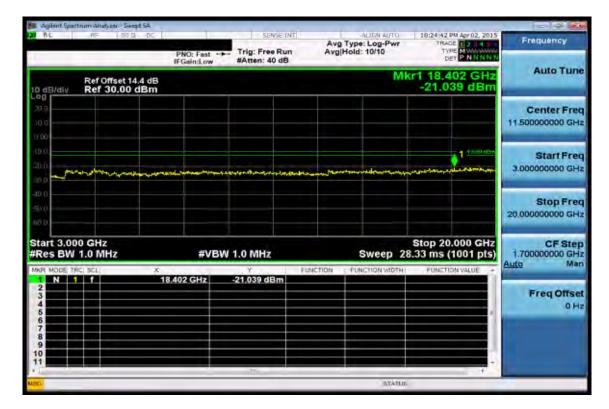
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0)Channel Lowest





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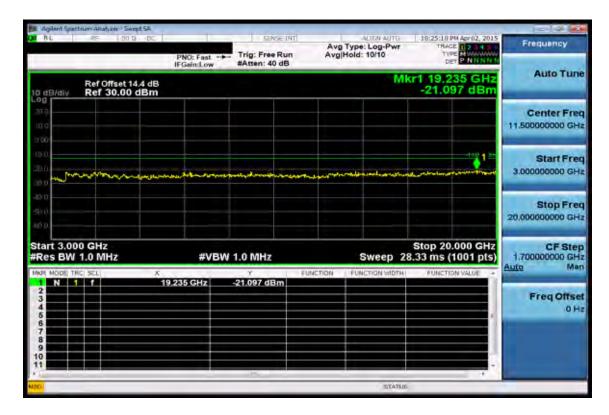
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# Out of Band emission at antenna terminals -5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



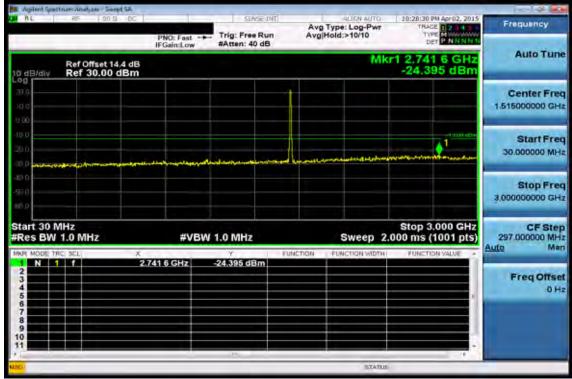


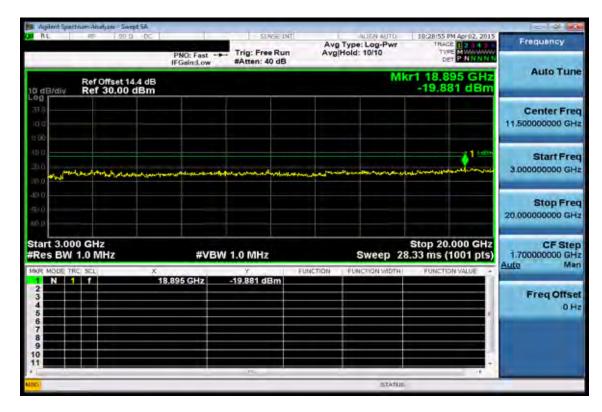
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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest





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Band edge emission at antenna terminals -5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest

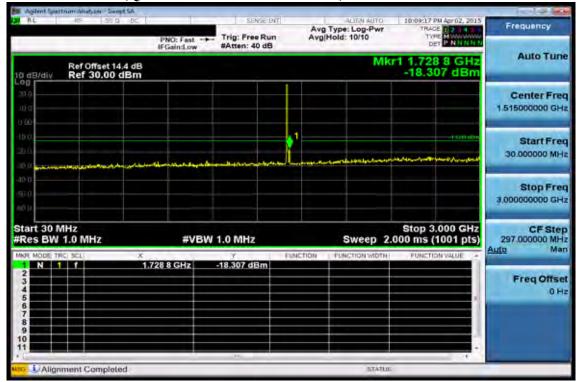


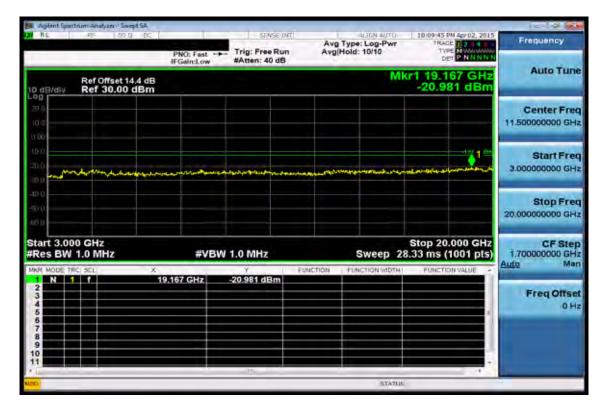
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





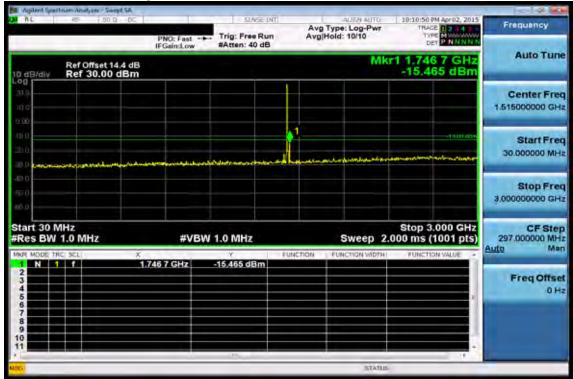
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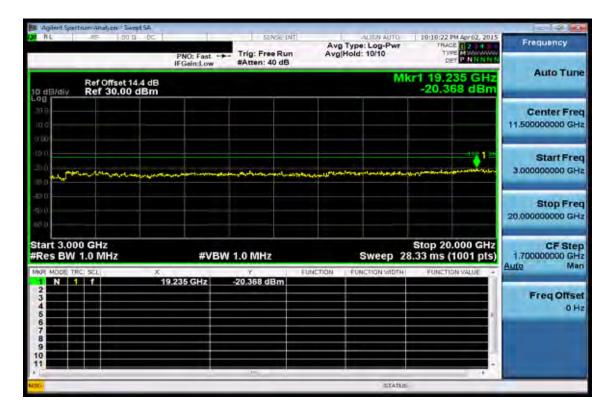
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# Out of Band emission at antenna terminals -10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



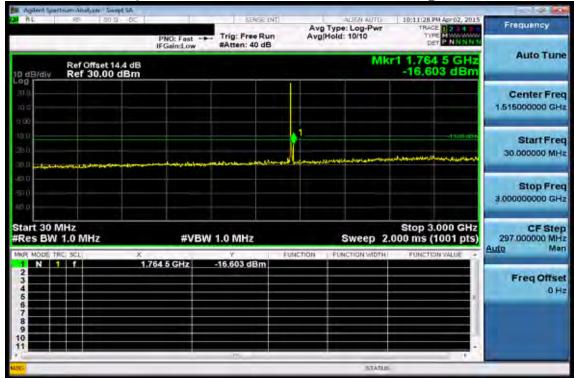


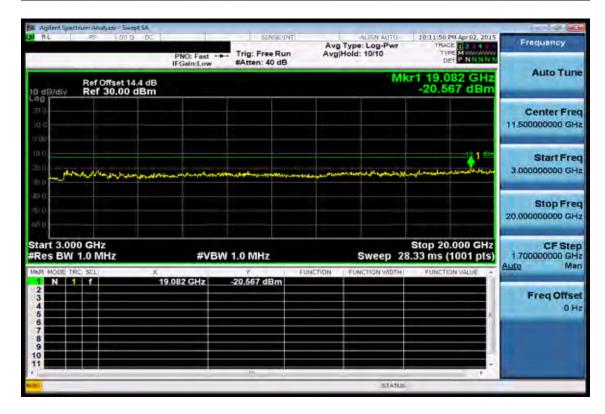
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# Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



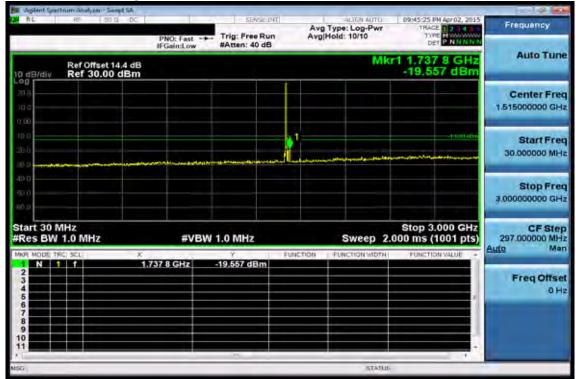
Band edge emission at antenna terminals -10MHz BW LTE-Band 4 (**QPSK RB Number: 1 Offset: 49**) Channel Highest

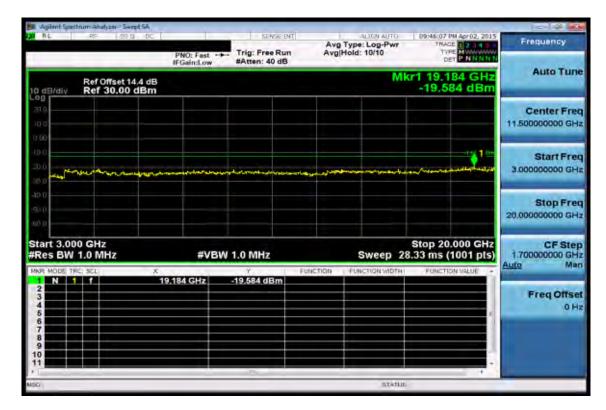


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest



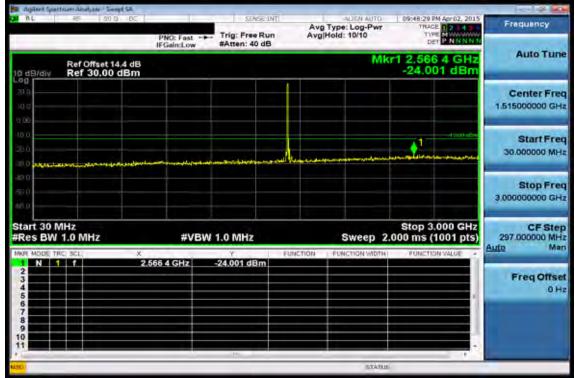


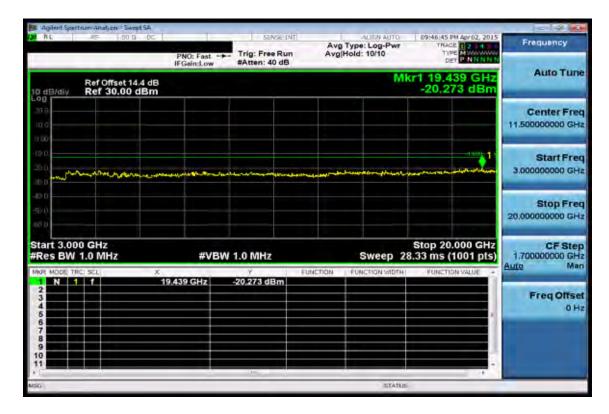
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## Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



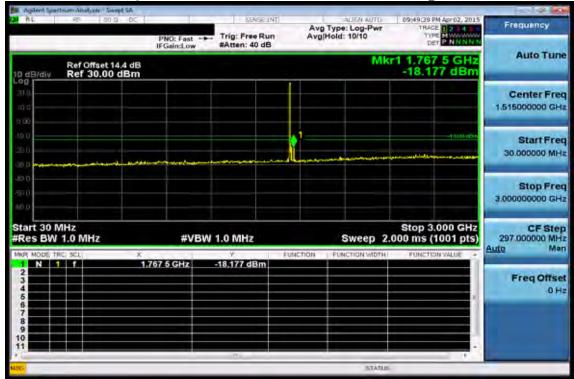


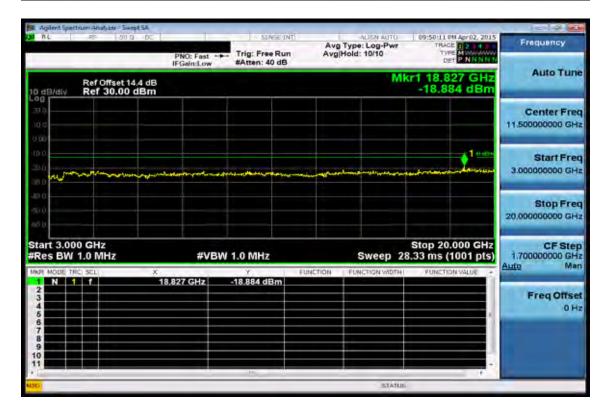
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## Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest

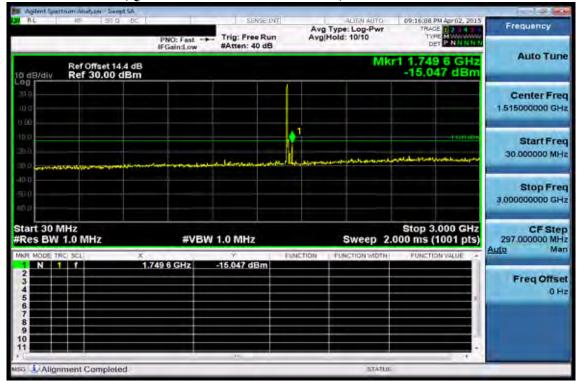


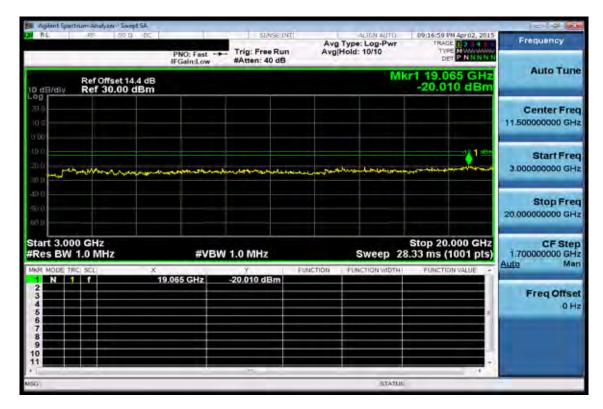
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Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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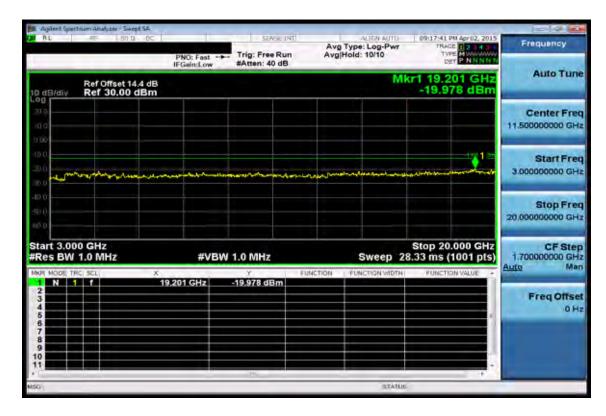
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# Out of Band emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

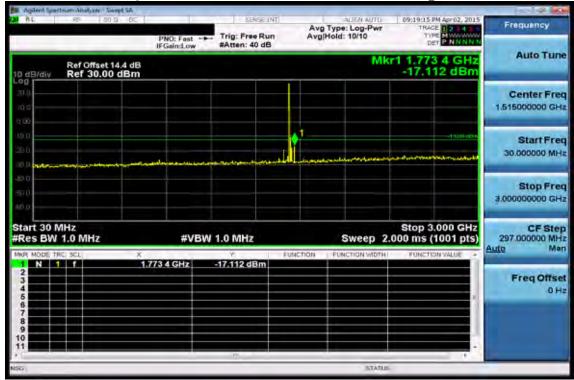


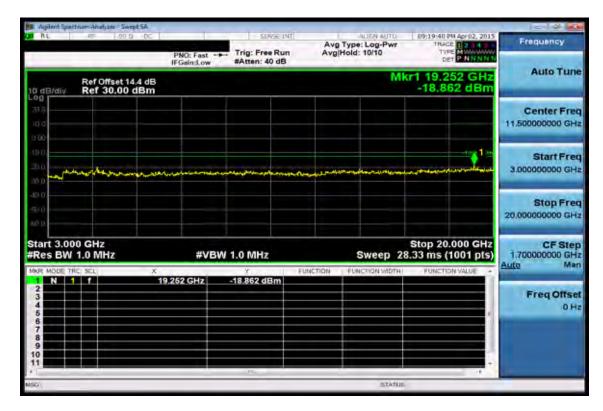


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### Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest

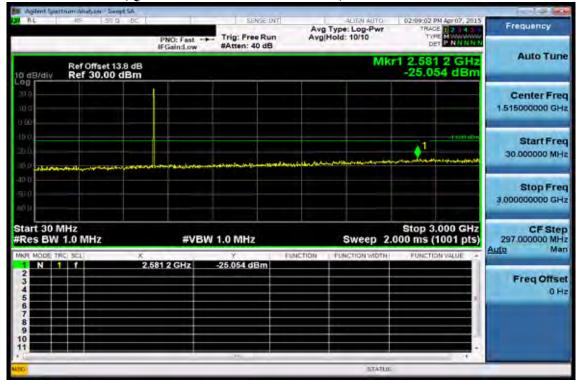


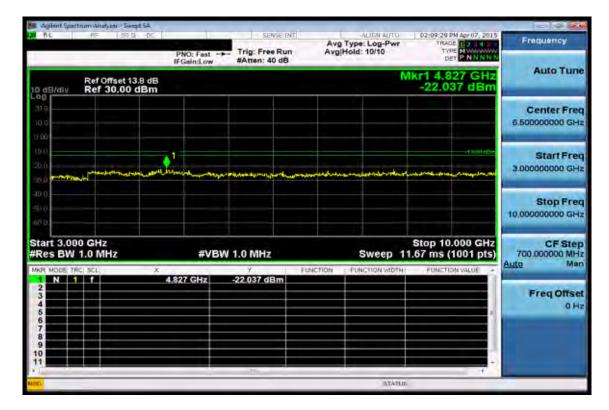
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Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





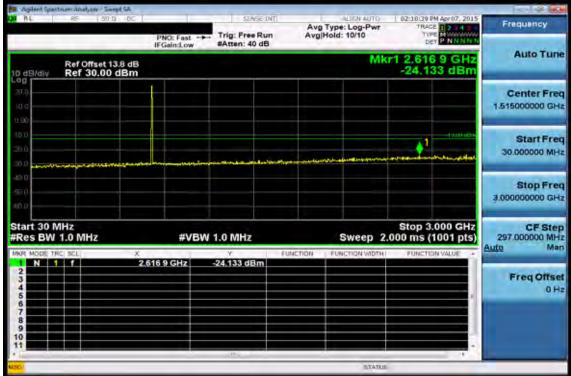
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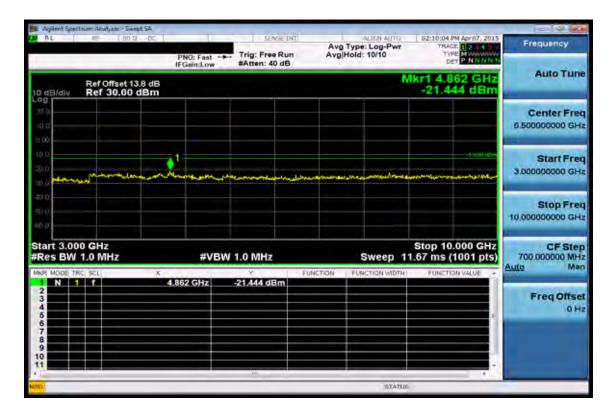
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# Out of Band emission at antenna terminals -1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



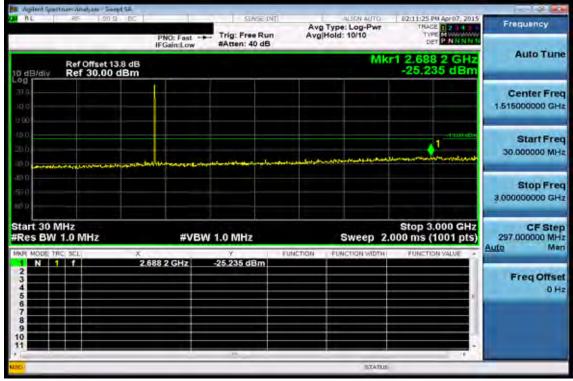


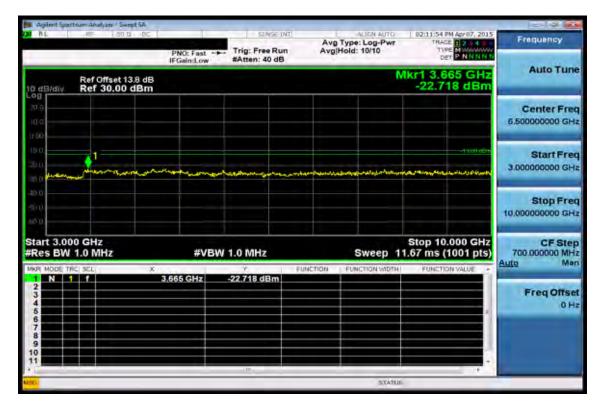
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# Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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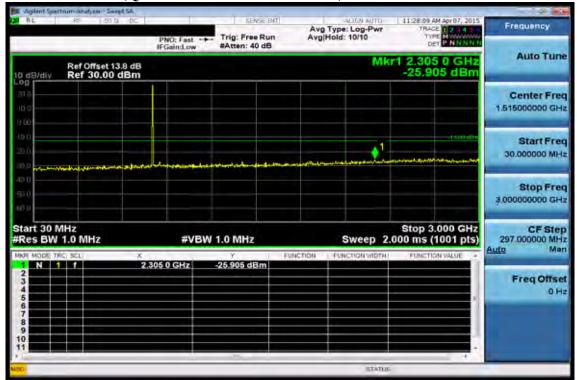
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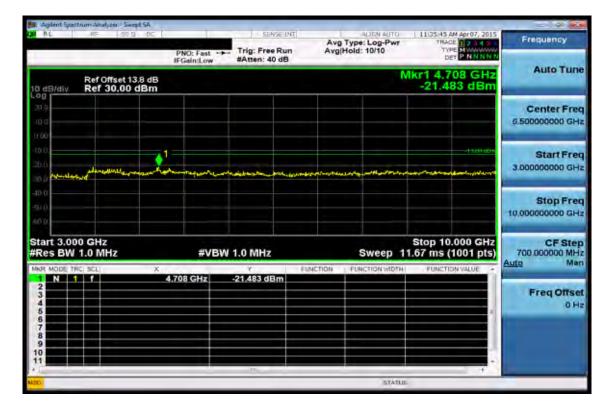
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Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





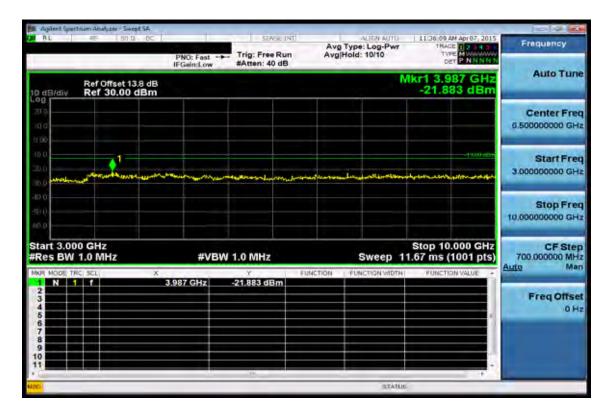
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# Out of Band emission at antenna terminals -3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

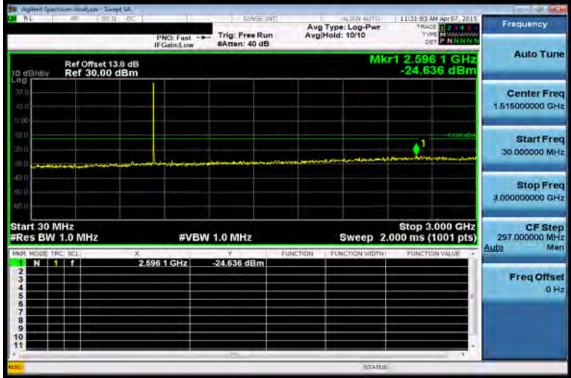


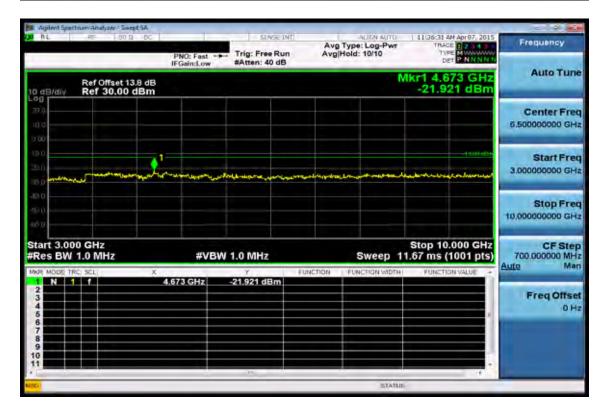


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# Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



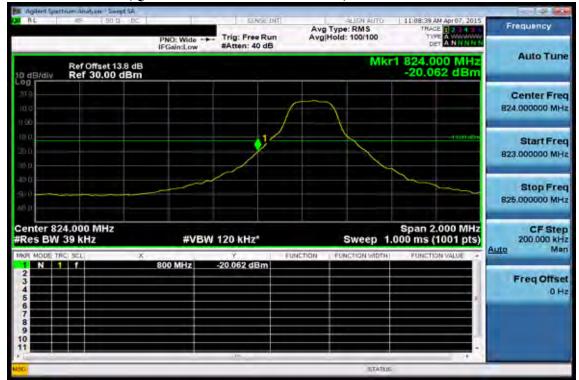


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Band edge emission at antenna terminals -3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



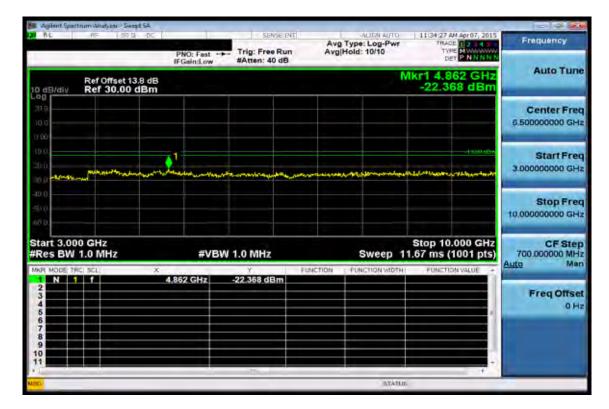
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





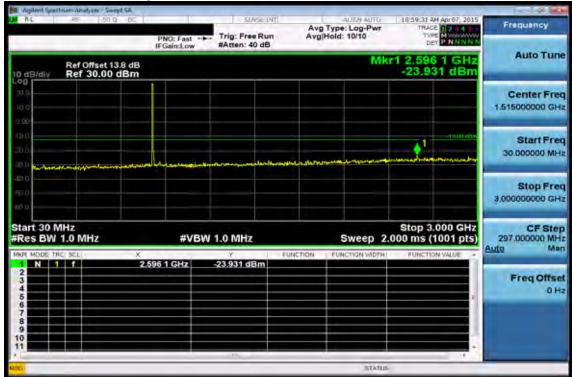
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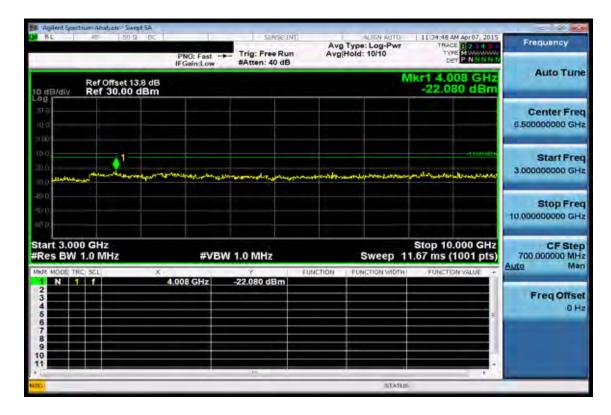
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# Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



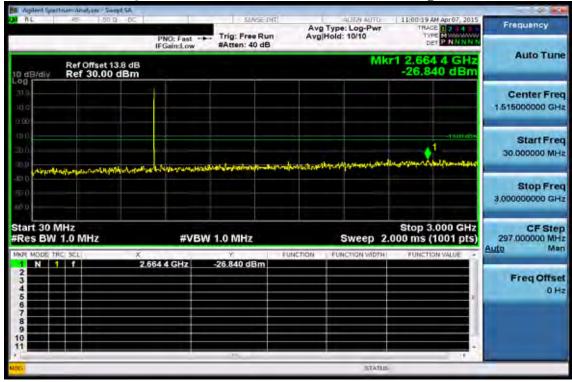


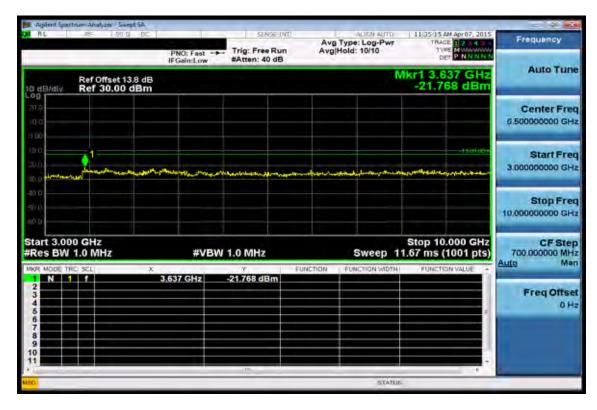
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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





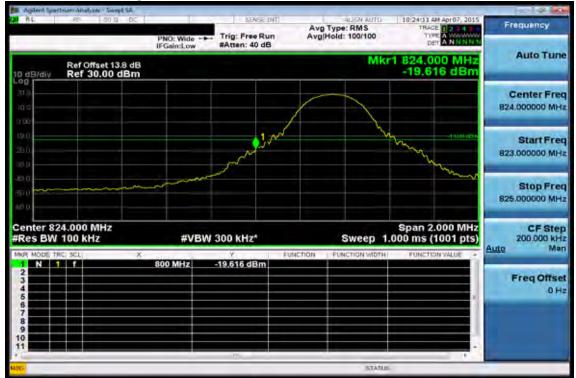
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Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest



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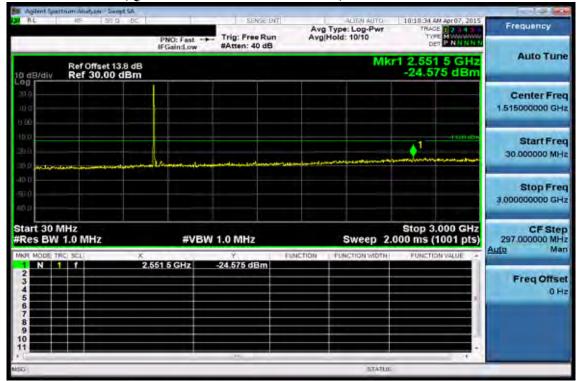
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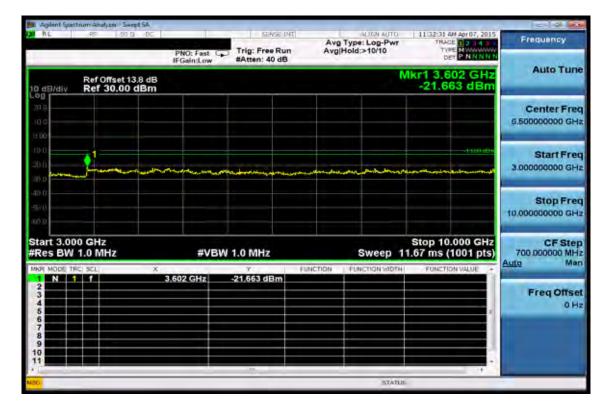
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest



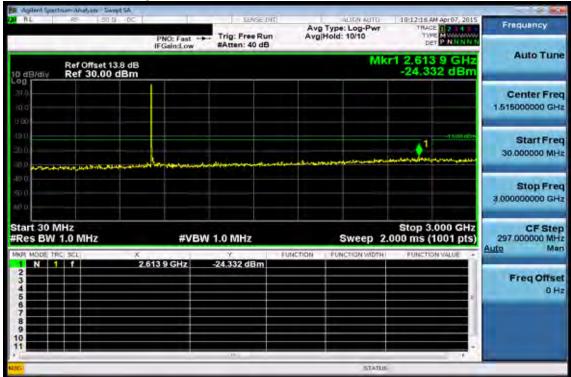


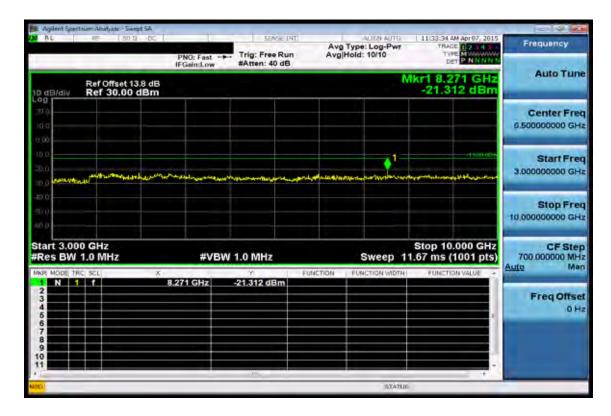
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# Out of Band emission at antenna terminals -10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

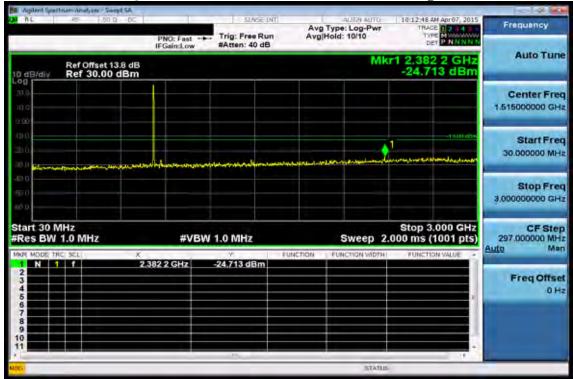


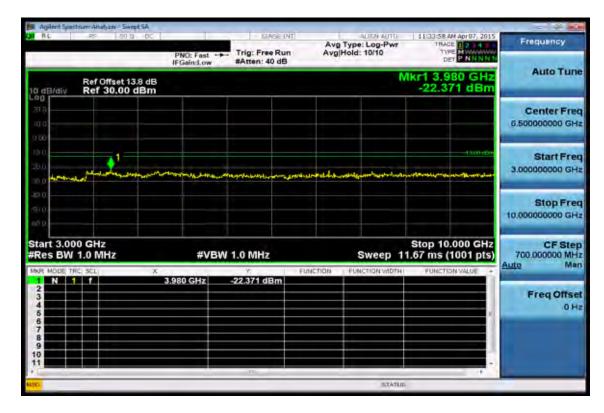


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# Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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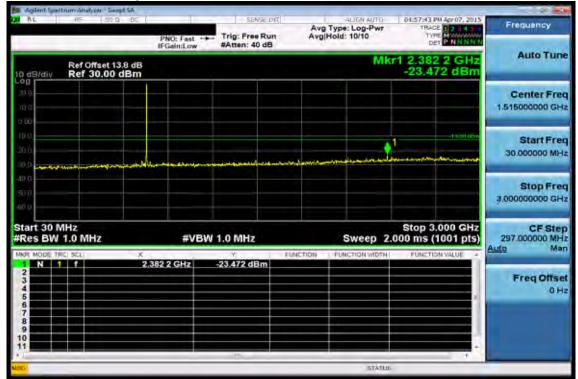
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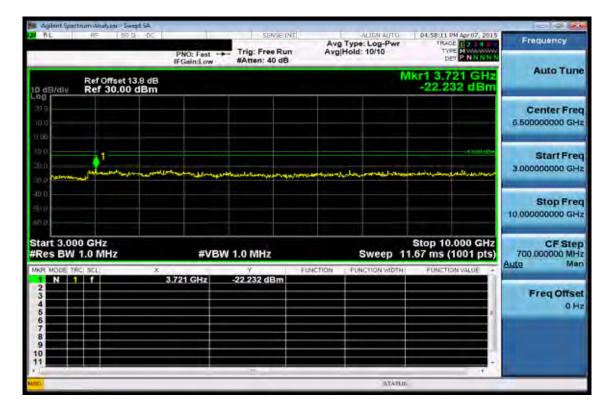
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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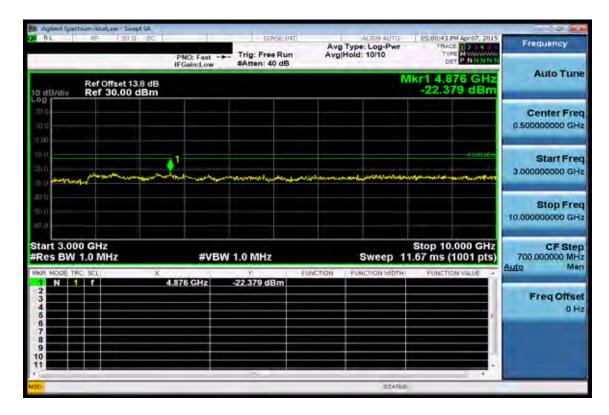
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# Out of Band emission at antenna terminals -5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid

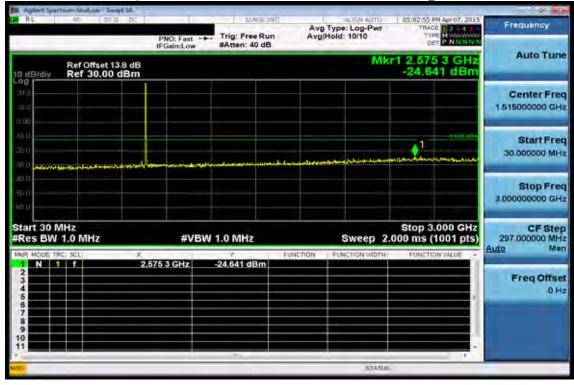


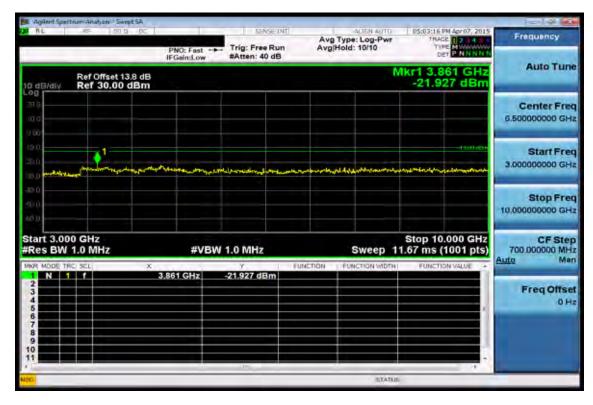


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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest





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### Band edge emission at antenna terminals -5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



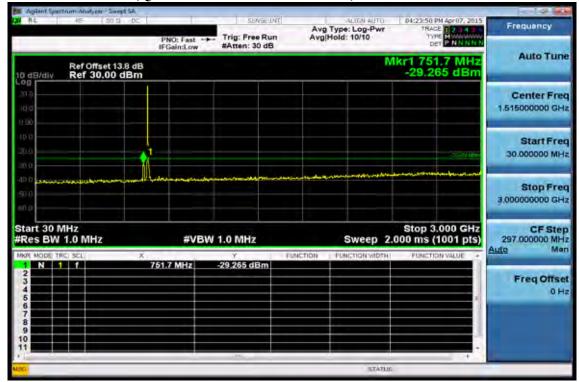
Band edge emission at antenna terminals -5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest

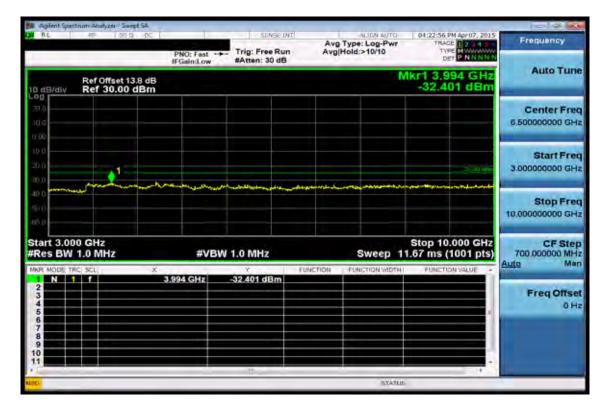


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid





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### Band edge emission at antenna terminals -10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



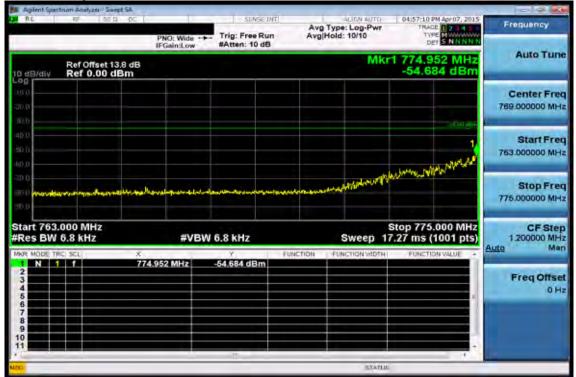
Band edge emission at antenna terminals -10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Highest



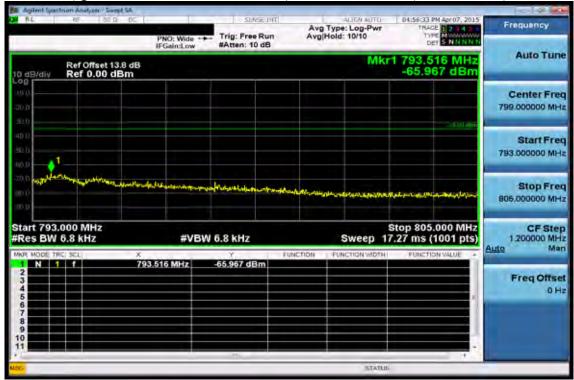
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)



Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)

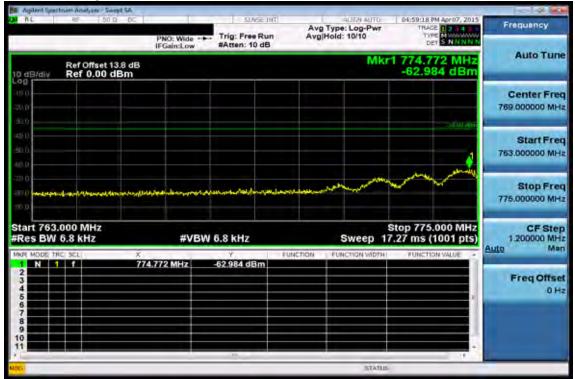


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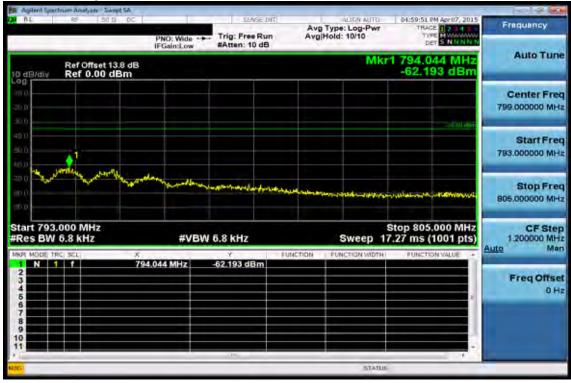
Chiefs So therwise stated the results and the state of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



### Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



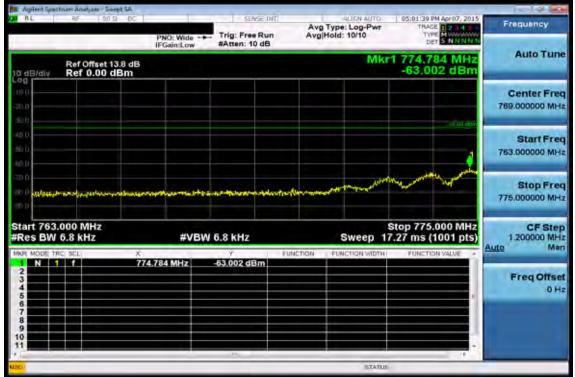
Out of Band emission at antenna terminals -5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



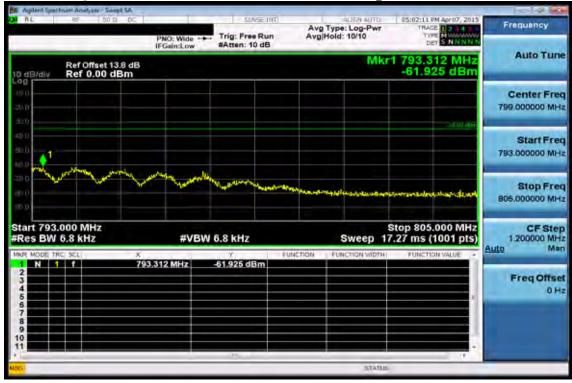
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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)



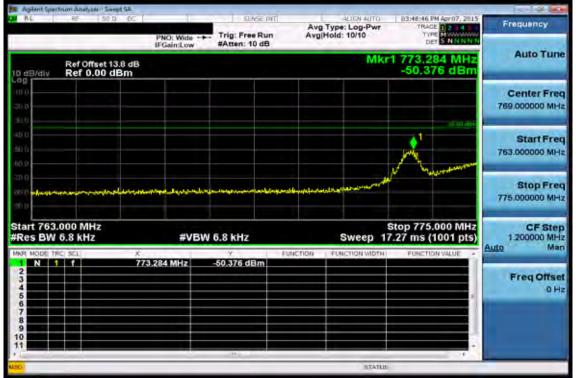
Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)



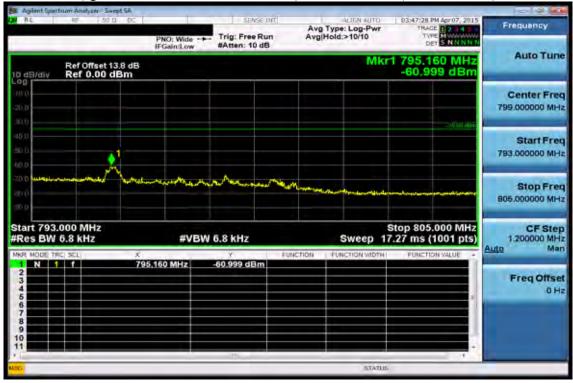
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# Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals-10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)

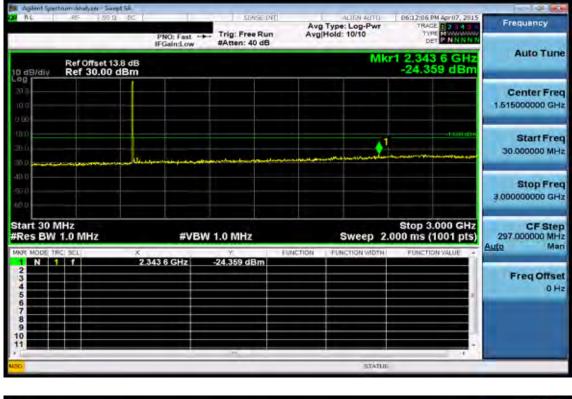


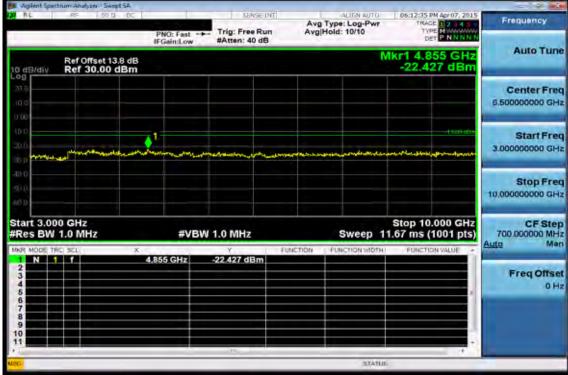
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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

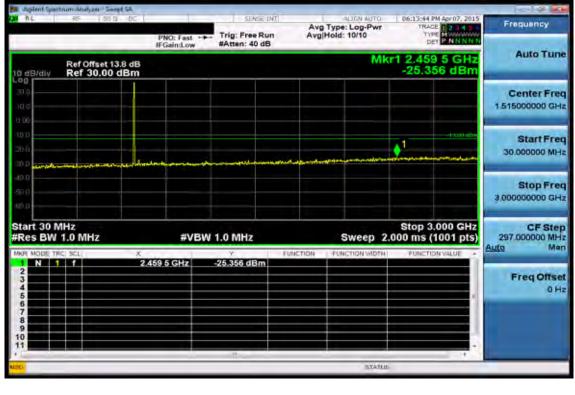


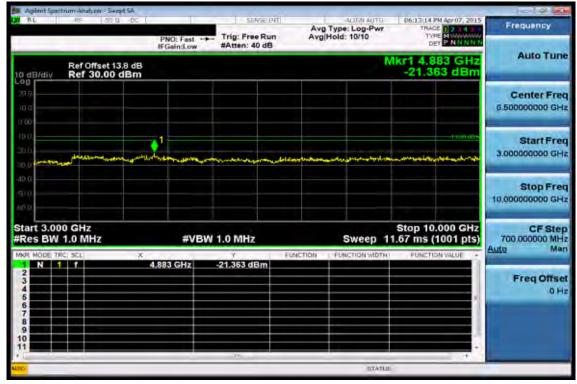


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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



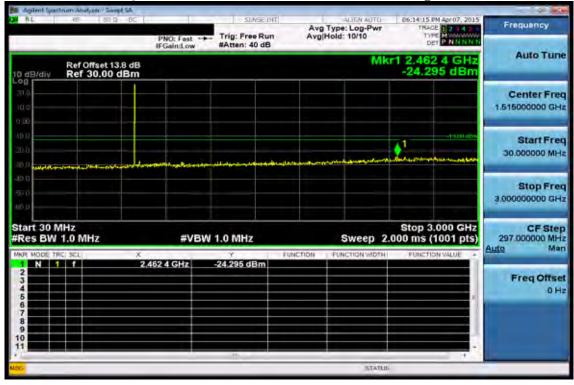


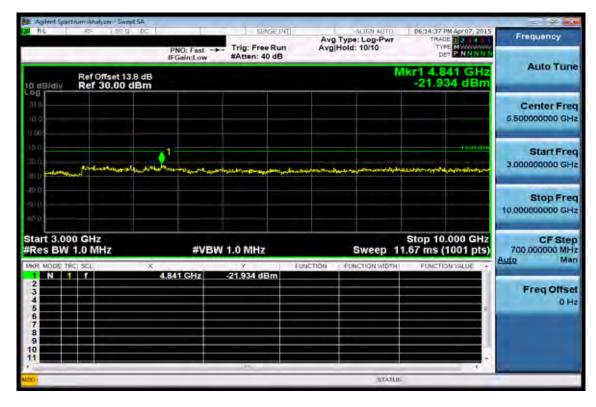
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# Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest

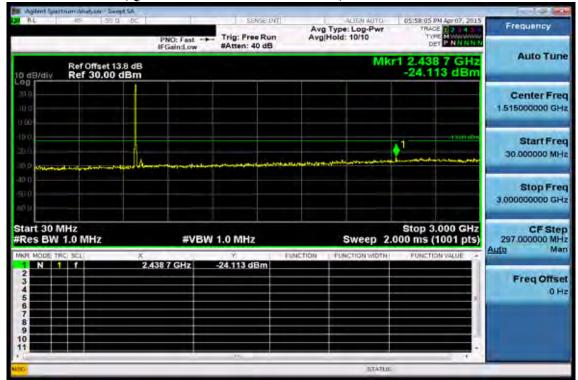


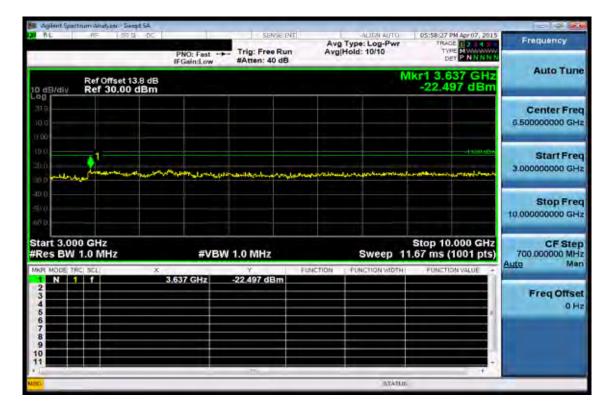
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Lowest



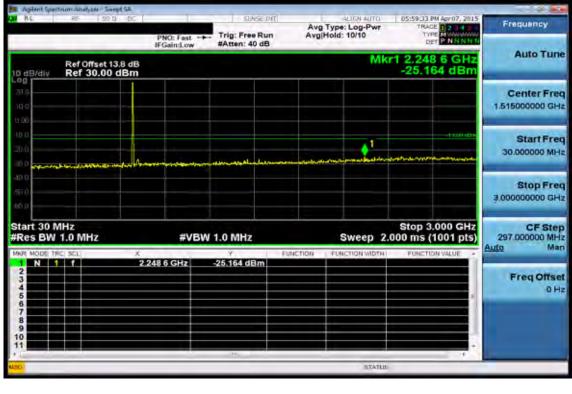


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# Out of Band emission at antenna terminals-10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid





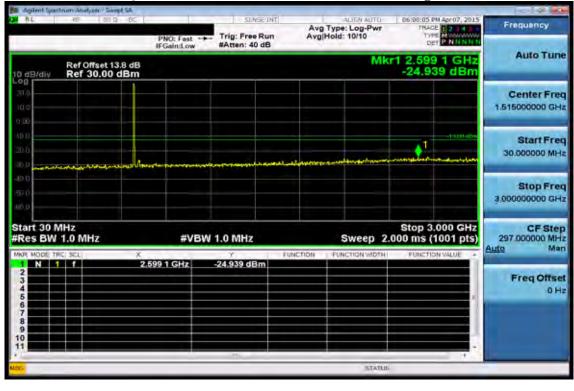
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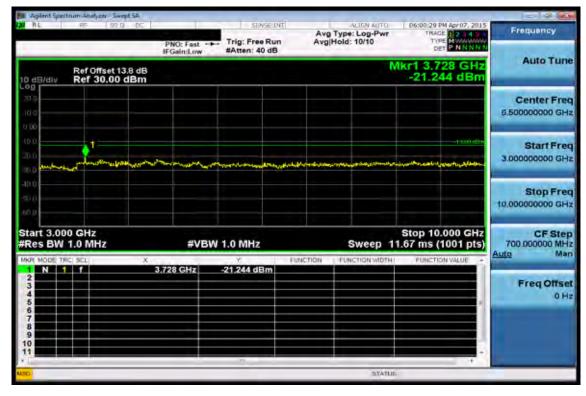
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# Out of Band emission at antenna terminals-10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest

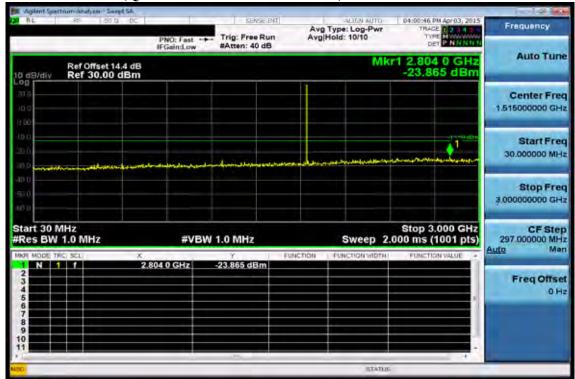


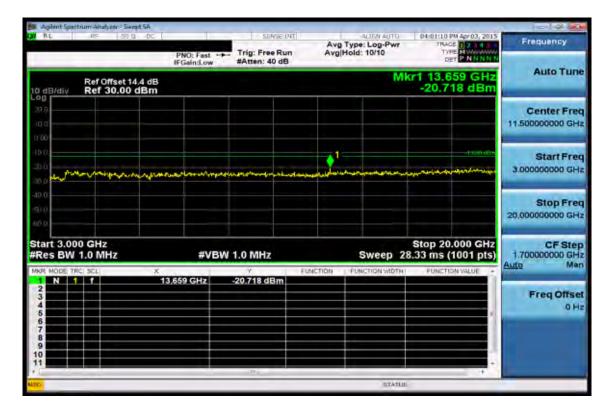
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Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 25 (OPSK RB Number: 1 Offset: 0) Channel Lowest





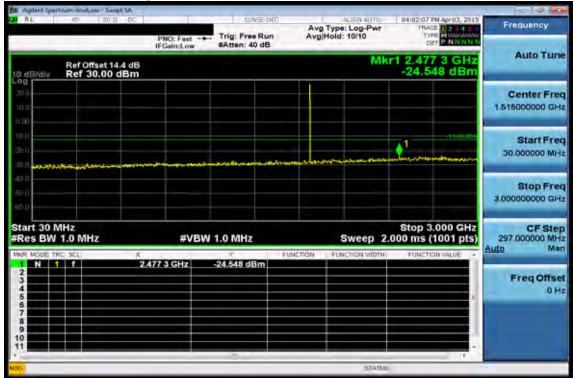
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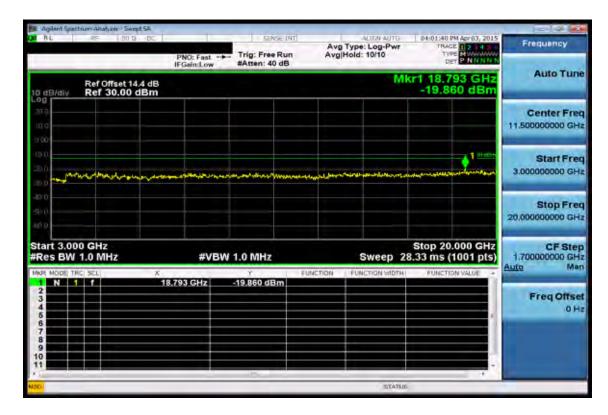
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# Out of Band emission at antenna terminals -1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



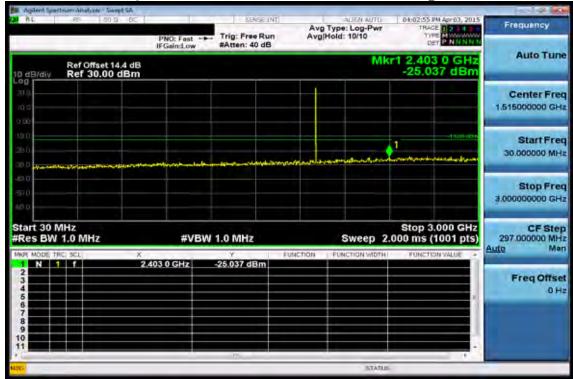


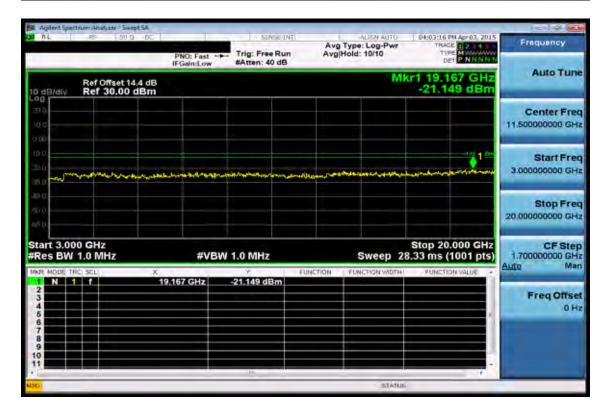
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# Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



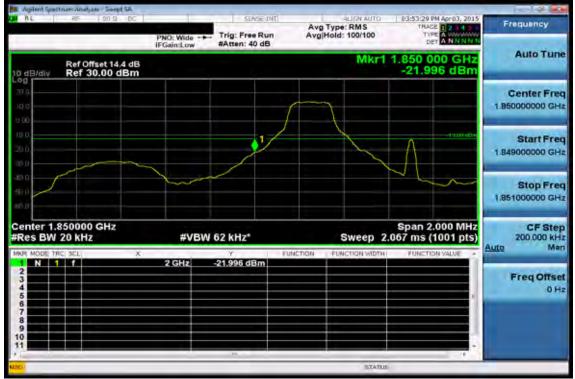


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### Band edge emission at antenna terminals -1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



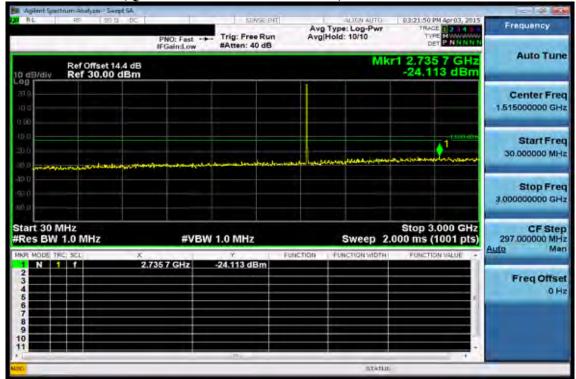
Band edge emission at antenna terminals -1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Highest

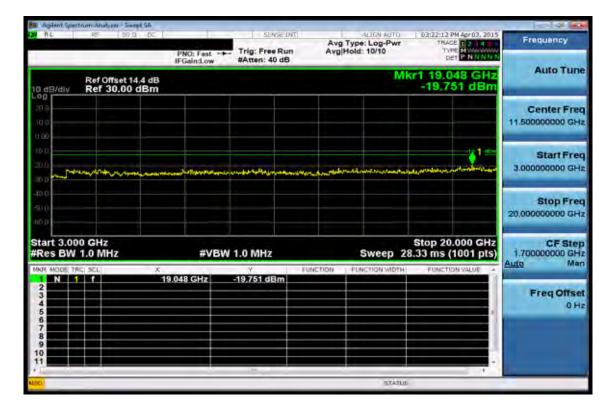


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



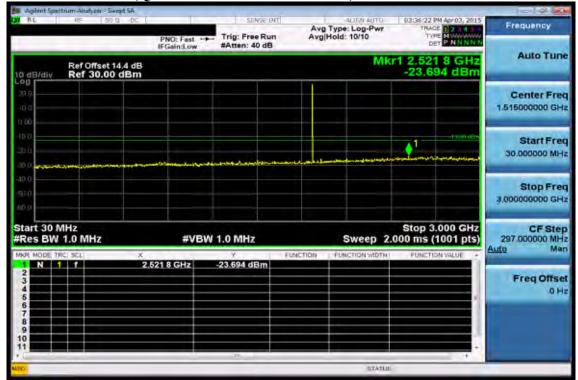


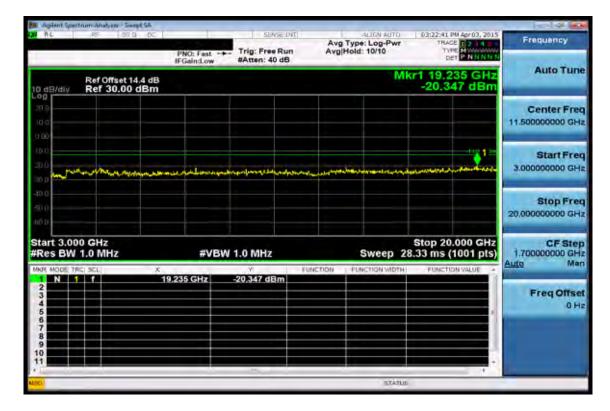
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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



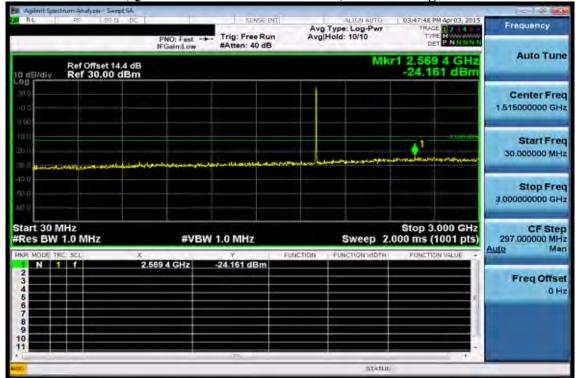


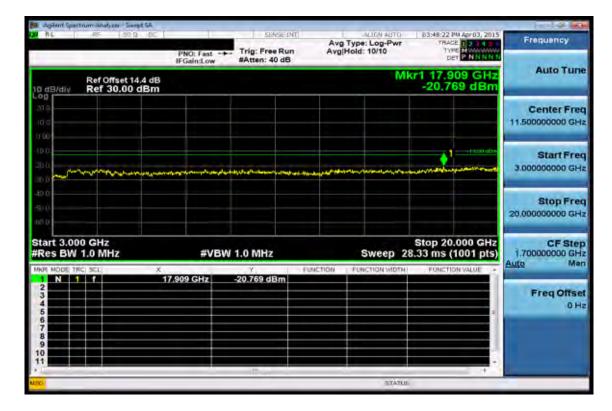
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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst



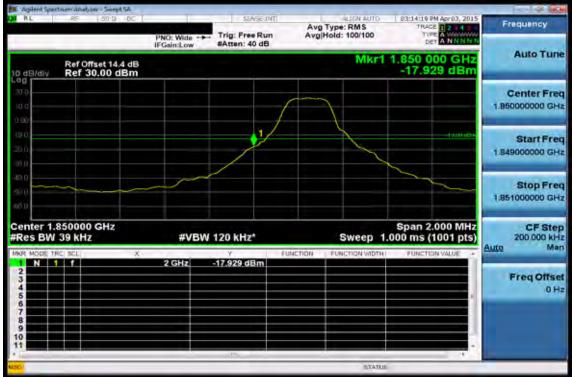


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#### Band edge emission at antenna terminals -3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 14) Channel Highest

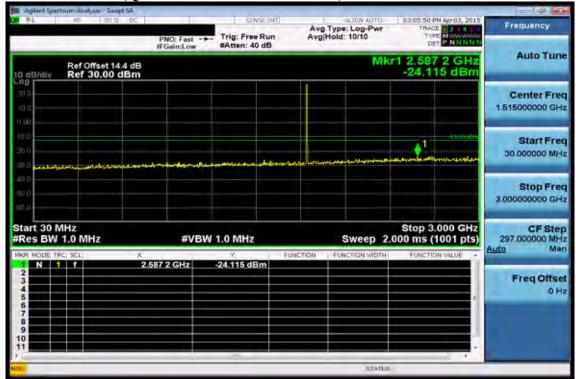


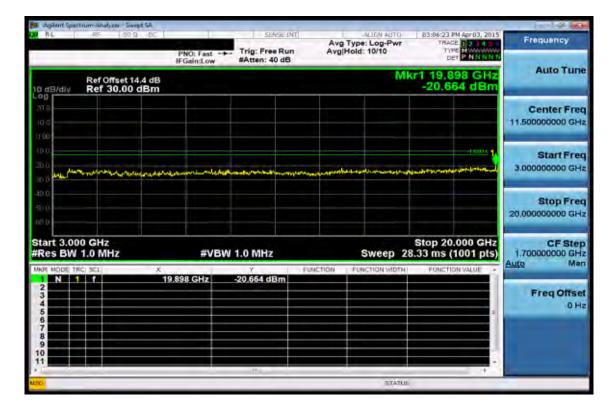
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



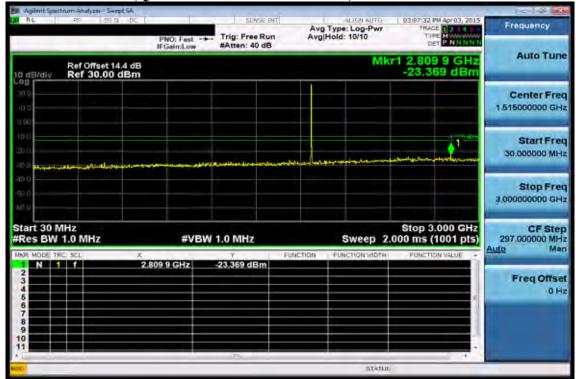


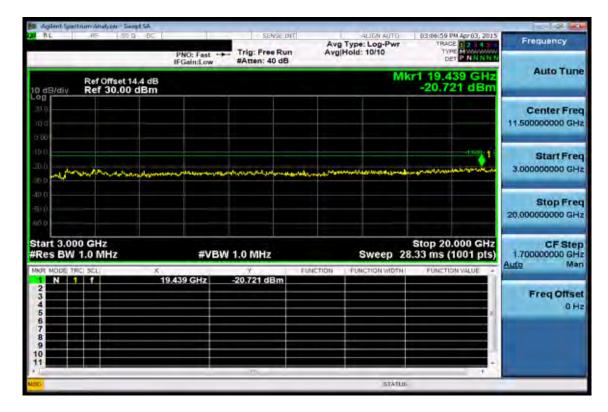
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



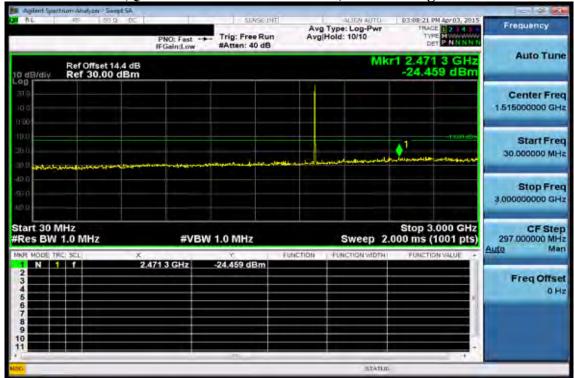


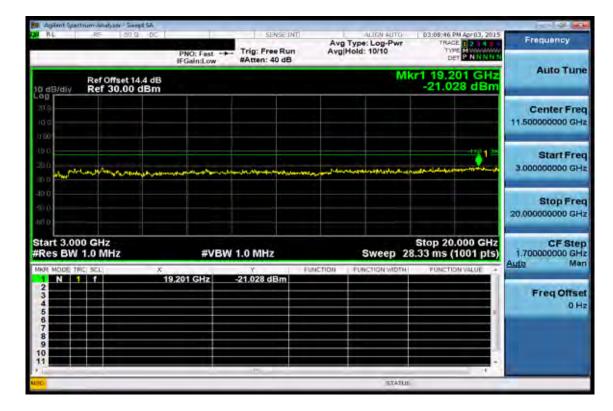
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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#### Band edge emission at antenna terminals -5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 24) Channel Highest

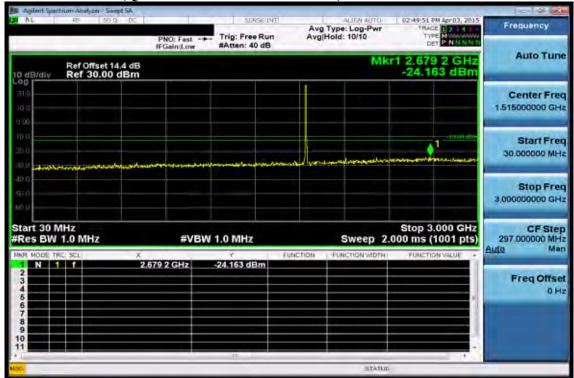


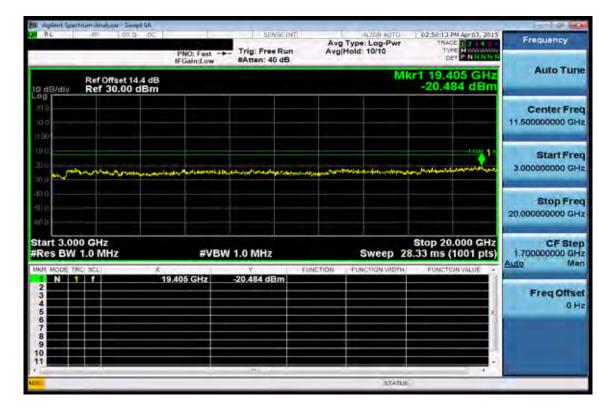
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



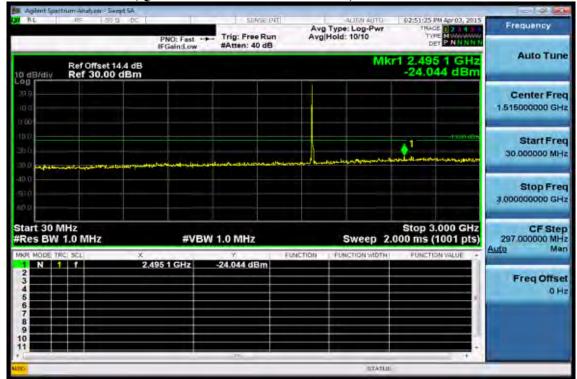


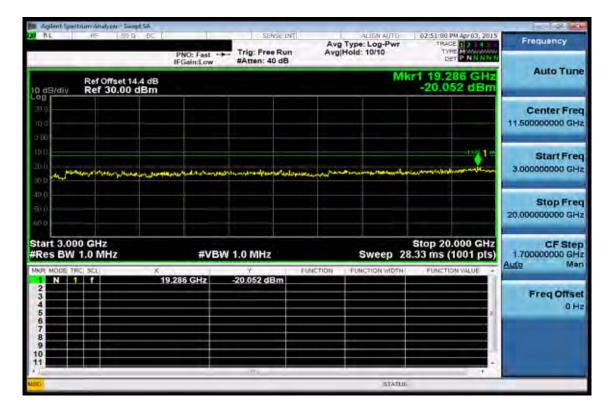
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





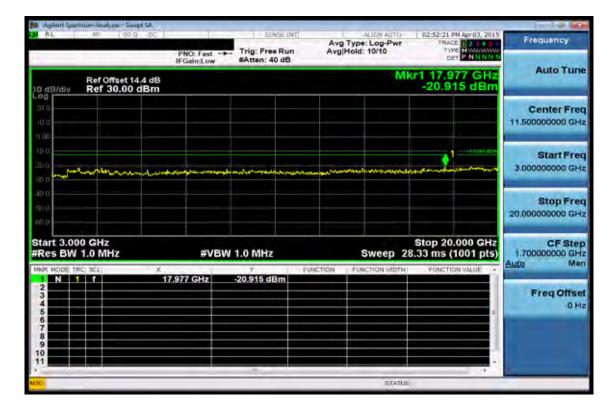
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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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#### Band edge emission at antenna terminals -10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 49) Channel Highest

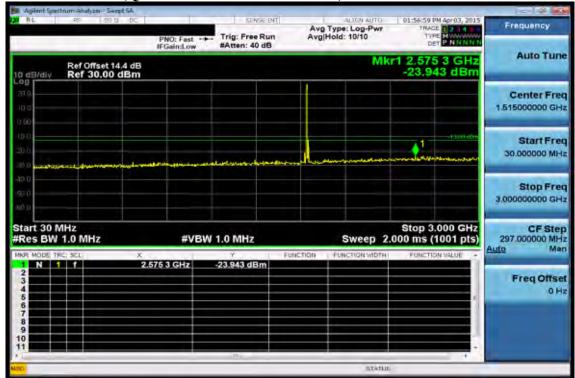


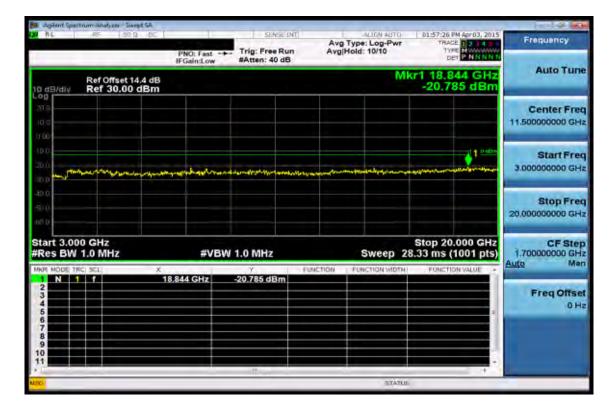
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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





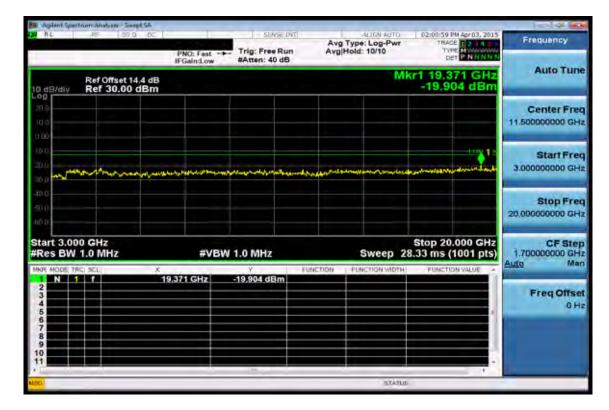
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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



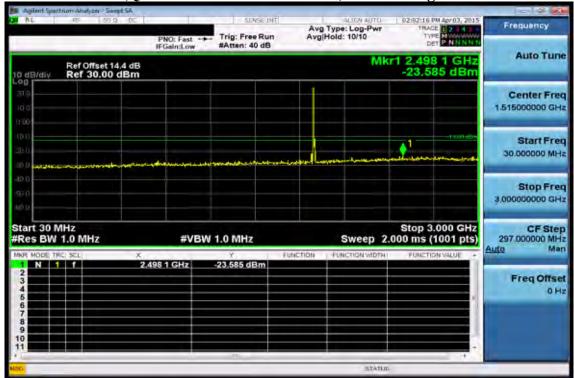


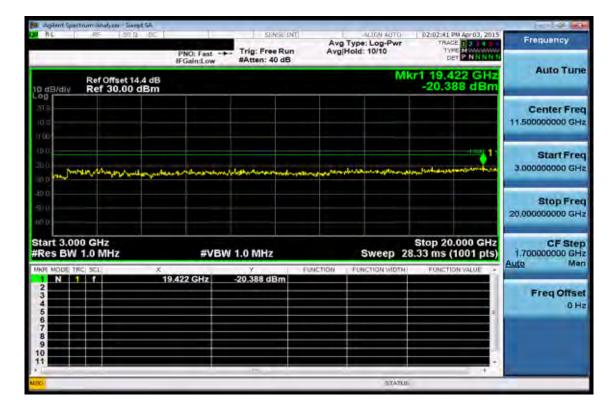
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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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#### Band edge emission at antenna terminals -15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 74) Channel Highest

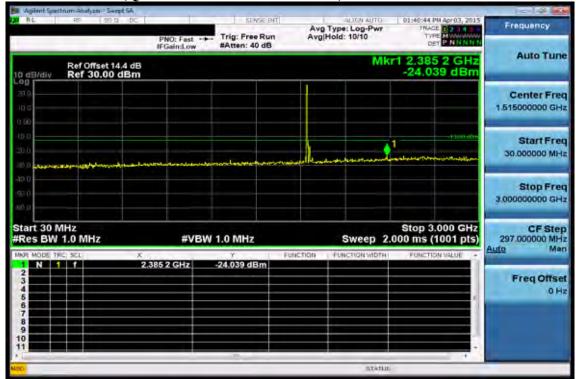


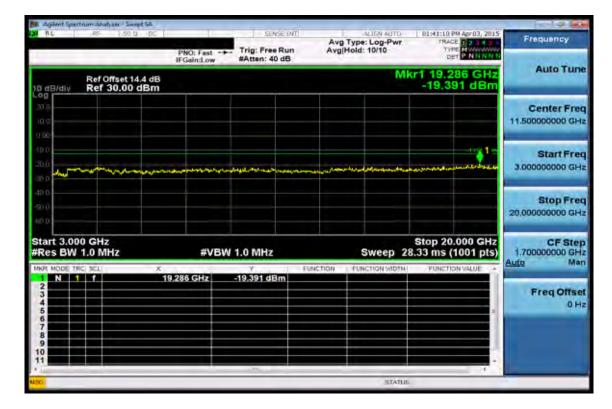
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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



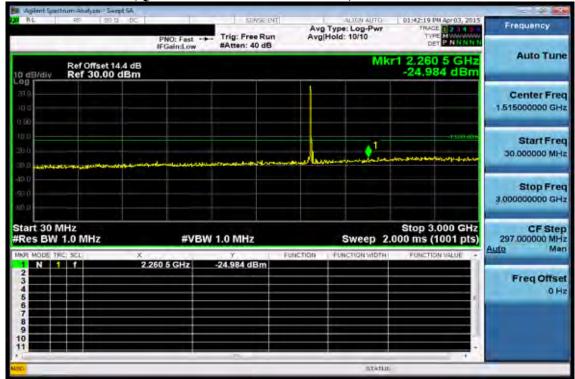


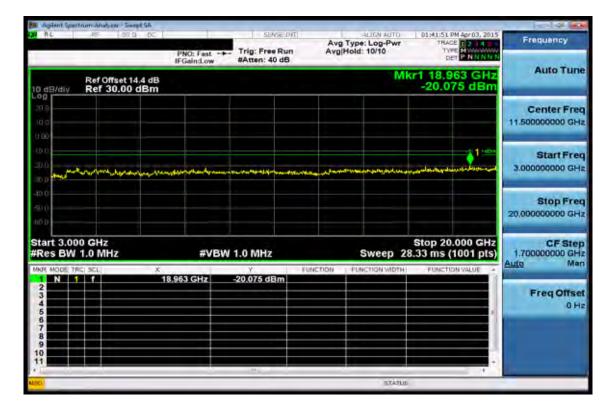
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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





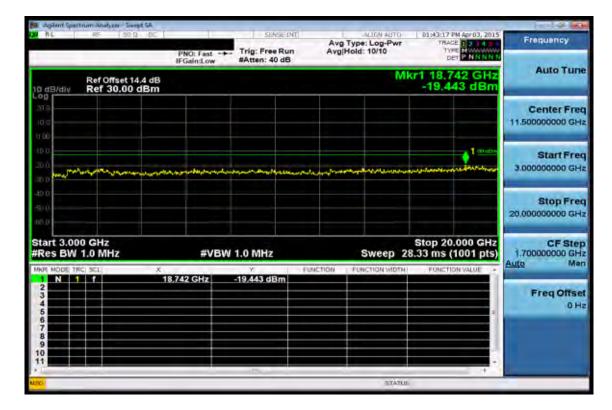
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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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#### Band edge emission at antenna terminals -20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Highest



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# **10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 10.1. Standard Applicable**

According to FCC §2.1053,

FCC \$22.917(a), \$24.238(a), \$27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

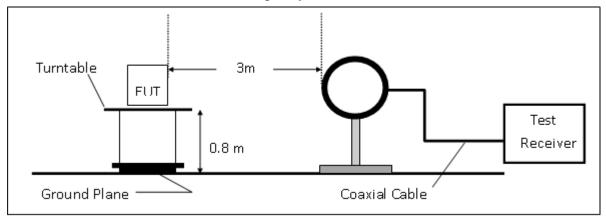
FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

27.53 (c) (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

\$27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

### 10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.

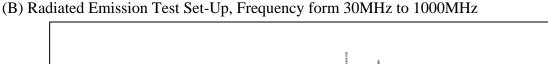


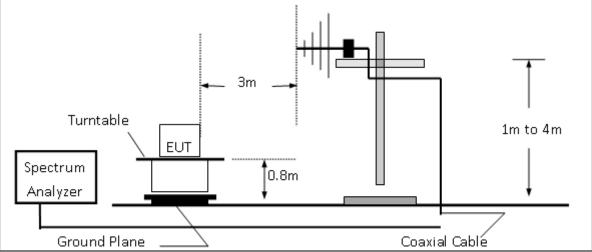
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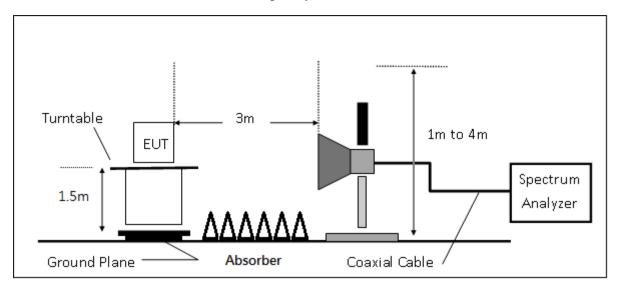
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(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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#### **10.3. Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency. "---": denotes Noise Floor.

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# **10.4. Measurement Equipment Used:**

	SGS 966 Chamber No.C									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration	Calibration					
				Date	Due					
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016					
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015					
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015					
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015					
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015					
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015					
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015					
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015					
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015					
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015					
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015					
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015					
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015					
Communication Tester	Anritsu	MT8820C	6201107337	06/03/2014	06/02/2015					
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016					
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016					
DC Power Supply	HOLA	DP-3003	D7070035	05/31/2014	05/30/2015					
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.					
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.					
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.					
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.					

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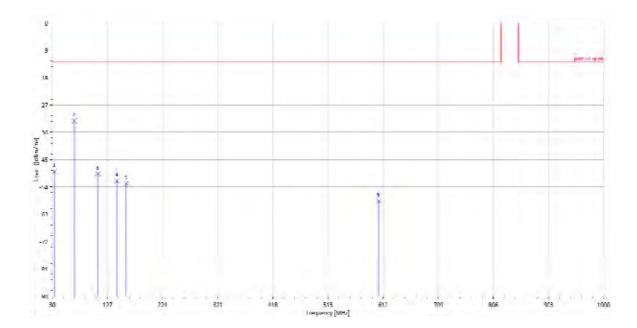


Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 355 of 594

#### 10.5. Measurement Result (Below 1GHz):

#### **Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

ARFCN	:CH 128	Test Date	:2015-04-22
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

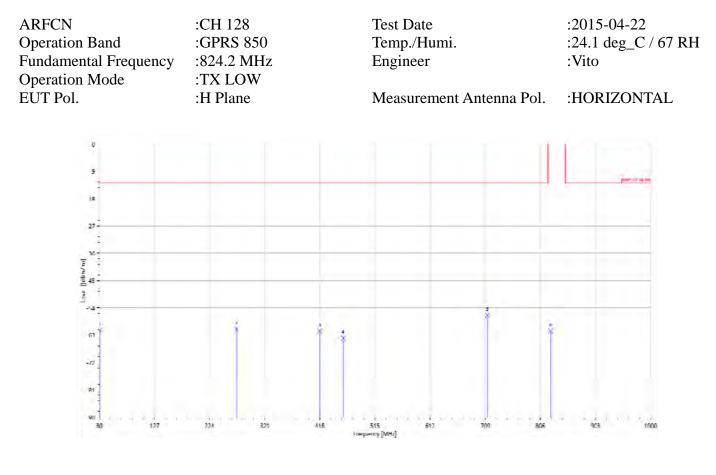


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-48.95	-29.11	-19.13	-0.71	-13.00	-35.95
68.80	S	-32.30	-29.18	-2.09	-1.03	-13.00	-19.30
110.51	S	-49.71	-44.83	-3.59	-1.28	-13.00	-36.71
143.49	S	-52.08	-49.87	-0.70	-1.52	-13.00	-39.08
159.98	S	-53.00	-52.78	1.34	-1.56	-13.00	-40.00
604.24	S	-58.70	-60.11	4.35	-2.94	-13.00	-45.70

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 356 of 594

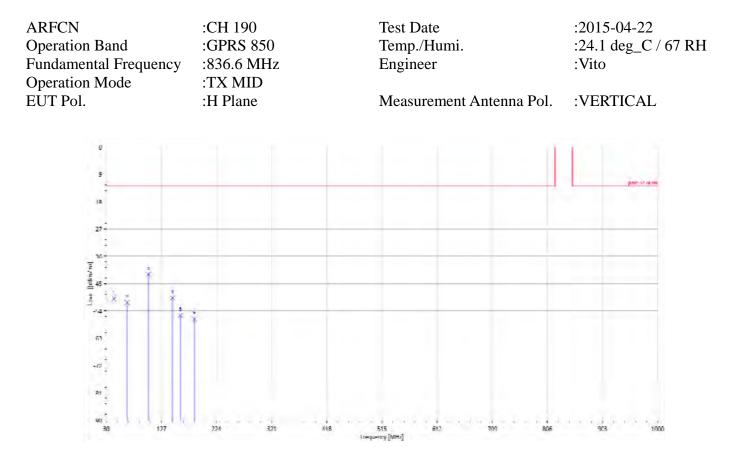


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	30.97	S	-61.36	-39.02	-21.66	-0.68	-13.00	-48.36
	271.53	S	-61.06	-62.21	3.12	-1.98	-13.00	-48.06
	418.00	S	-61.69	-62.71	3.35	-2.33	-13.00	-48.69
	459.71	S	-64.00	-65.04	3.70	-2.66	-13.00	-51.00
	712.88	S	-56.41	-58.38	5.09	-3.11	-13.00	-43.41
	824.43	S	-61.70	-63.35	5.14	-3.49	38.45	-100.15

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 357 of 594

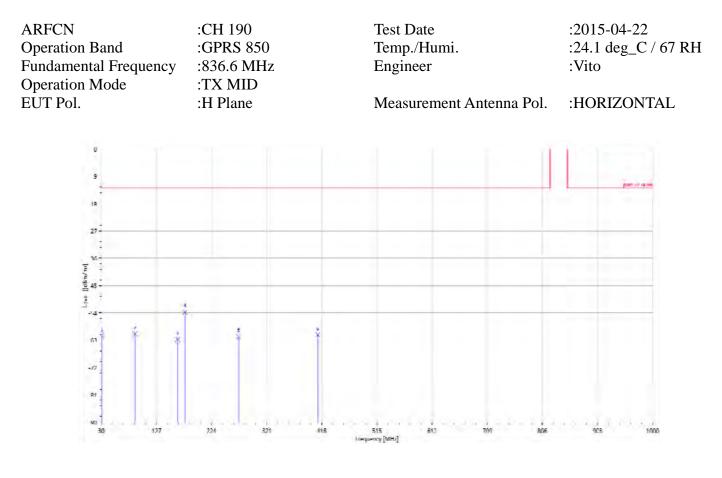


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	43.58	S	-50.02	-37.86	-11.36	-0.79	-13.00	-37.02
	66.86	S	-51.25	-47.91	-2.33	-1.01	-13.00	-38.25
	104.69	S	-42.00	-37.29	-3.47	-1.24	-13.00	-29.00
	146.40	S	-49.69	-48.03	-0.26	-1.40	-13.00	-36.69
	160.95	S	-55.46	-55.25	1.46	-1.67	-13.00	-42.46
	185.20	S	-56.68	-58.96	3.91	-1.63	-13.00	-43.68

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 358 of 594

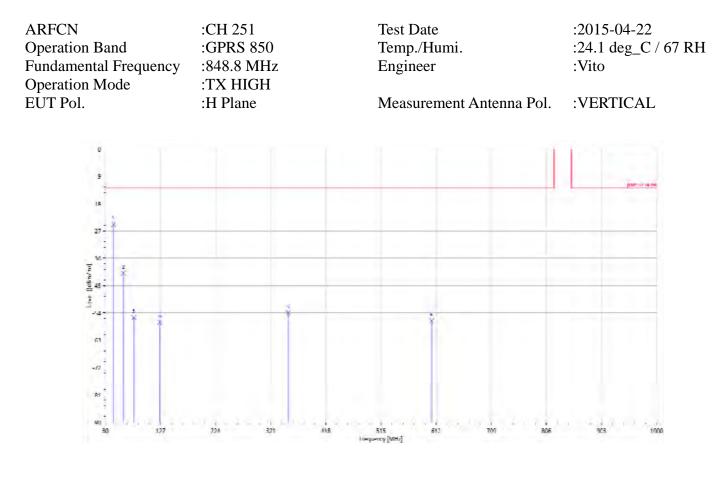


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	30.97	S	-61.51	-39.17	-21.66	-0.68	-13.00	-48.51
	89.17	S	-60.99	-57.65	-2.21	-1.13	-13.00	-47.99
	164.83	S	-62.68	-63.08	1.93	-1.53	-13.00	-49.68
	177.44	S	-53.79	-55.51	3.39	-1.67	-13.00	-40.79
	271.53	S	-61.77	-62.92	3.12	-1.98	-13.00	-48.77
	411.21	S	-61.27	-61.97	3.29	-2.59	-13.00	-48.27

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 359 of 594

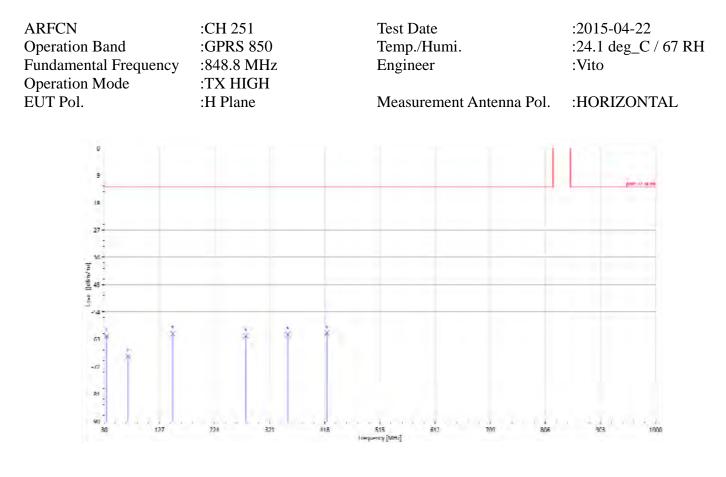


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	44.55	S	-24.79	-13.39	-10.62	-0.77	-13.00	-11.79
	62.01	S	-40.94	-37.06	-2.93	-0.95	-13.00	-27.94
	80.44	S	-55.58	-52.80	-1.71	-1.07	-13.00	-42.58
	126.03	S	-57.12	-52.97	-2.78	-1.37	-13.00	-44.12
	352.04	S	-53.96	-55.09	3.43	-2.30	-13.00	-40.96
	604.24	S	-56.64	-58.04	4.35	-2.94	-13.00	-43.64

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 360 of 594



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-61.96	-42.12	-19.13	-0.71	-13.00	-48.96
71.71	S	-68.67	-65.76	-1.90	-1.02	-13.00	-55.67
150.28	S	-61.21	-60.11	0.31	-1.41	-13.00	-48.21
279.29	S	-61.91	-63.19	3.29	-2.00	-13.00	-48.91
353.01	S	-61.39	-62.46	3.43	-2.36	-13.00	-48.39
421.88	S	-60.99	-61.83	3.38	-2.54	-13.00	-47.99

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 361 of 594

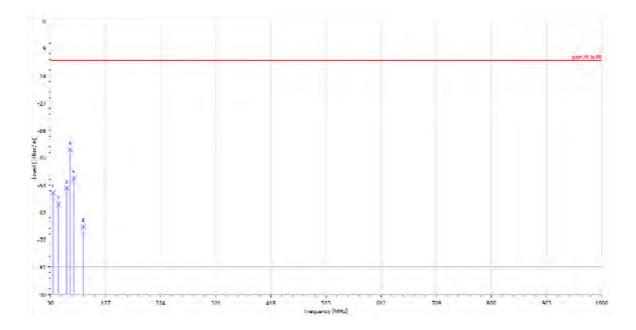
#### **Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

ARFCN	:CH 512
Operation Band	:GPRS 1900
Fundamental Frequency	:1850.2 MHz
Operation Mode	:TX LOW
EUT Pol.	:H Plane

Test Date Temp./Humi. Engineer

:2015-04-22 :24.1 deg\_C / 67 RH :Vito

Measurement Antenna Pol. :VERTICAL

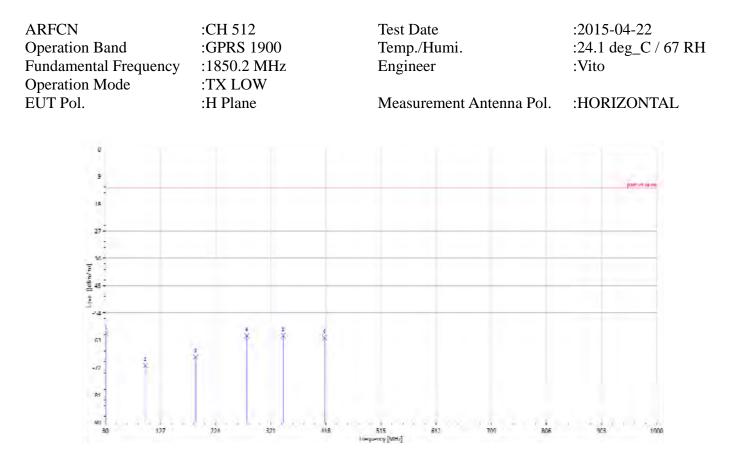


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-56.52	-37.51	-18.29	-0.72	-13.01	-43.51
44.55	S	-60.29	-48.90	-10.62	-0.77	-13.01	-47.28
59.10	S	-54.94	-50.46	-3.54	-0.95	-13.01	-41.93
64.92	S	-42.30	-38.74	-2.57	-0.99	-13.01	-29.29
71.71	S	-51.72	-48.81	-1.90	-1.02	-13.01	-38.71
88.20	S	-67.75	-64.48	-2.16	-1.11	-13.01	-54.74

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 362 of 594

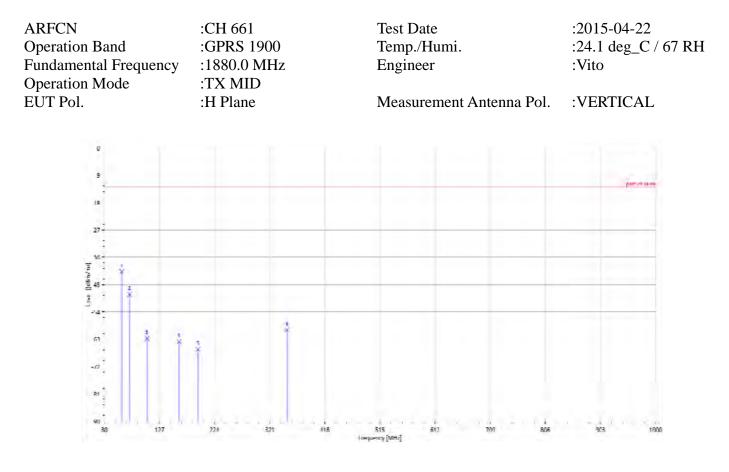


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-60.87	-38.54	-21.66	-0.68	-13.01	-47.86
100.81	S	-71.36	-66.80	-3.36	-1.20	-13.01	-58.35
189.08	S	-68.55	-71.02	4.10	-1.62	-13.01	-55.54
279.29	S	-61.60	-62.88	3.29	-2.00	-13.01	-48.59
343.31	S	-61.52	-62.70	3.45	-2.27	-13.01	-48.51
416.06	S	-62.22	-63.11	3.33	-2.44	-13.01	-49.21

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 363 of 594

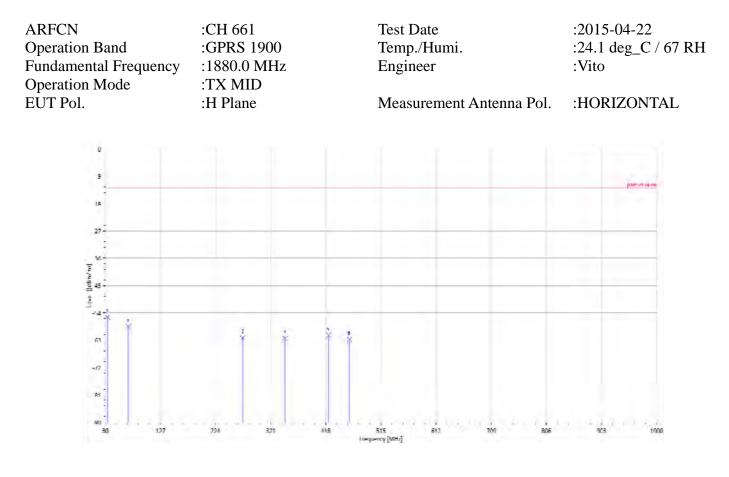


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
61.04	S	-40.79	-36.79	-3.05	-0.95	-13.01	-27.78
74.62	S	-48.28	-45.42	-1.82	-1.04	-13.01	-35.27
105.66	S	-62.75	-58.02	-3.49	-1.23	-13.01	-49.74
161.92	S	-63.81	-63.73	1.58	-1.66	-13.01	-50.80
194.90	S	-66.37	-68.65	3.96	-1.68	-13.01	-53.36
352.04	S	-59.94	-61.07	3.43	-2.30	-13.01	-46.93

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 364 of 594

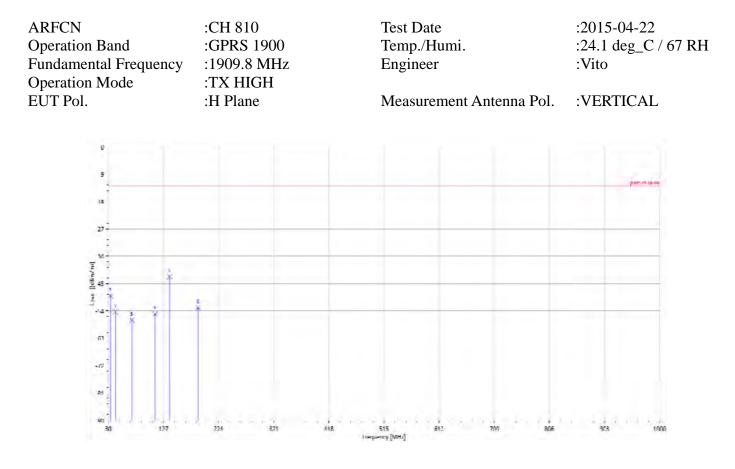


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	33.88	S	-55.38	-35.54	-19.13	-0.71	-13.01	-42.37
	70.74	S	-58.54	-55.63	-1.92	-0.99	-13.01	-45.53
	271.53	S	-62.25	-63.40	3.12	-1.98	-13.01	-49.24
	346.22	S	-62.36	-63.62	3.44	-2.19	-13.01	-49.35
	422.85	S	-61.44	-62.28	3.39	-2.55	-13.01	-48.43
	459.71	S	-62.76	-63.81	3.70	-2.66	-13.01	-49.75

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 365 of 594

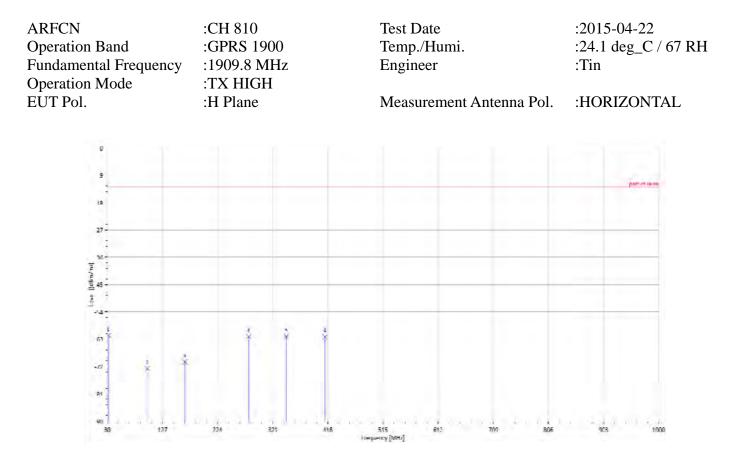


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
33.88	S	-49.02	-29.18	-19.13	-0.71	-13.01	-36.01
42.61	S	-54.36	-41.45	-12.11	-0.80	-13.01	-41.35
71.71	S	-57.09	-54.18	-1.90	-1.02	-13.01	-44.08
112.45	S	-55.04	-50.25	-3.52	-1.27	-13.01	-42.03
137.67	S	-42.71	-39.87	-1.51	-1.33	-13.01	-29.70
188.11	S	-53.08	-55.50	4.05	-1.63	-13.01	-40.07

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 366 of 594



	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	31.94	S	-61.78	-40.27	-20.82	-0.69	-13.01	-48.77
	100.81	S	-72.70	-68.14	-3.36	-1.20	-13.01	-59.69
	166.77	S	-70.47	-71.11	2.17	-1.53	-13.01	-57.46
	279.29	S	-62.20	-63.48	3.29	-2.00	-13.01	-49.19
	345.25	S	-62.07	-63.26	3.45	-2.26	-13.01	-49.06
	413.15	S	-62.27	-63.08	3.31	-2.50	-13.01	-49.26

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 367 of 594

#### **Radiated Spurious Emission Measurement Result: WCDMA II Mode**

ARFCN	:CH 9262
Operation Band	:WCDMA B2
Fundamental Frequency	:1852.4 MHz
Operation Mode	:TX LOW
EUT Pol.	:H Plane

Test Date Temp./Humi. Engineer

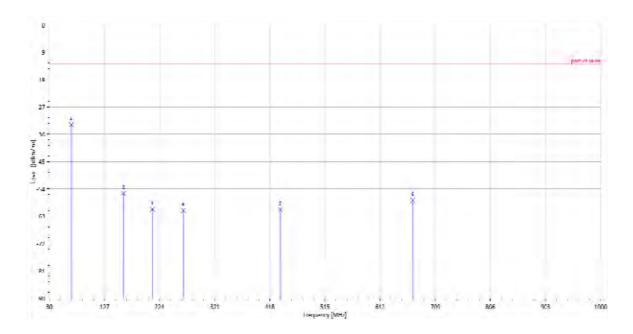
Measurement Antenna Pol.

:VERTICAL

:24.1 deg\_C / 67 RH

:2015-04-22

:Vito

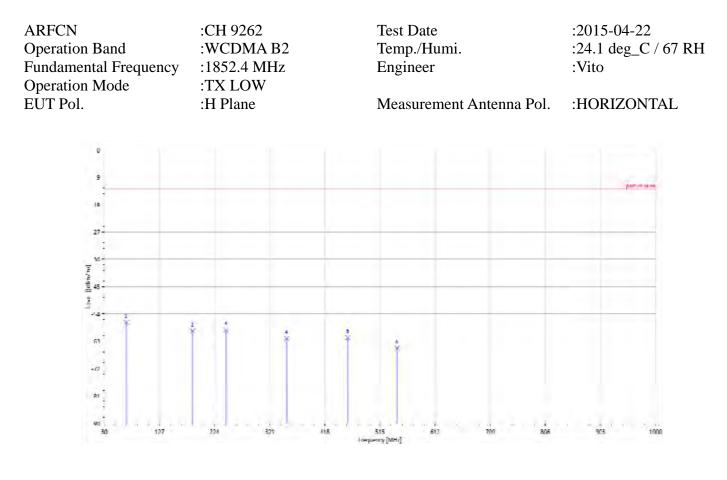


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	68.80	S	-32.85	-29.73	-2.09	-1.03	-13.01	-19.84
	160.95	S	-55.51	-55.30	1.46	-1.67	-13.01	-42.50
	211.39	S	-60.80	-63.03	4.00	-1.77	-13.01	-47.79
	265.71	S	-61.14	-61.83	2.65	-1.96	-13.01	-48.13
	436.43	S	-60.89	-61.99	3.51	-2.41	-13.01	-47.88
	669.23	S	-57.76	-59.30	4.79	-3.25	-13.01	-44.75

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 368 of 594

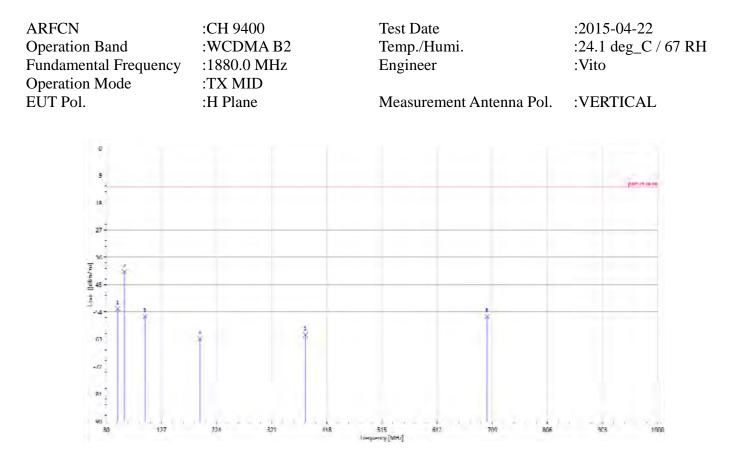


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	68.80	S	-56.79	-53.67	-2.09	-1.03	-13.01	-43.78
	185.20	S	-59.67	-61.95	3.91	-1.63	-13.01	-46.66
	244.37	S	-59.28	-60.50	3.01	-1.79	-13.01	-46.27
	351.07	S	-62.14	-63.40	3.43	-2.18	-13.01	-49.13
	458.74	S	-61.85	-62.91	3.69	-2.63	-13.01	-48.84
	545.07	S	-65.22	-66.26	3.98	-2.94	-13.01	-52.21
_	68.80 185.20 244.37 351.07 458.74	S S S S	-56.79 -59.67 -59.28 -62.14 -61.85	-53.67 -61.95 -60.50 -63.40 -62.91	-2.09 3.91 3.01 3.43 3.69	-1.03 -1.63 -1.79 -2.18 -2.63	-13.01 -13.01 -13.01 -13.01 -13.01	-43.78 -46.66 -46.27 -49.13 -48.84

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 369 of 594

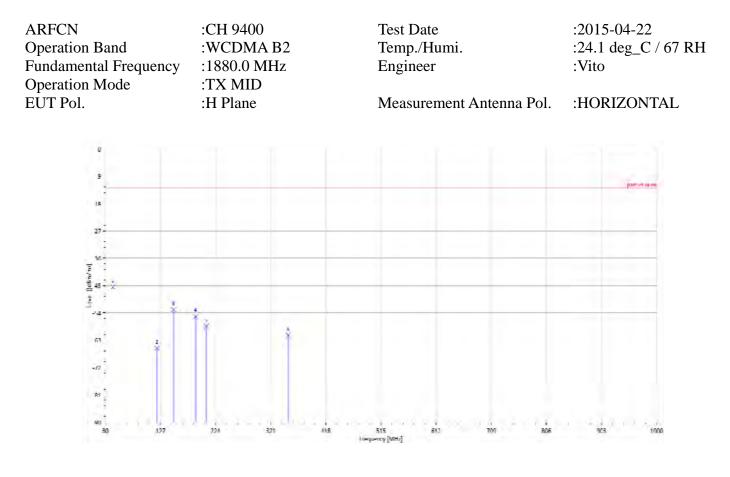


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
50.37	S	-52.95	-45.07	-7.01	-0.87	-13.01	-39.94
62.01	S	-40.87	-36.99	-2.93	-0.95	-13.01	-27.86
97.90	S	-55.50	-51.20	-3.11	-1.19	-13.01	-42.49
194.90	S	-62.93	-65.21	3.96	-1.68	-13.01	-49.92
380.17	S	-61.63	-62.57	3.30	-2.35	-13.01	-48.62
700.27	S	-55.50	-57.39	5.06	-3.17	-13.01	-42.49

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 370 of 594

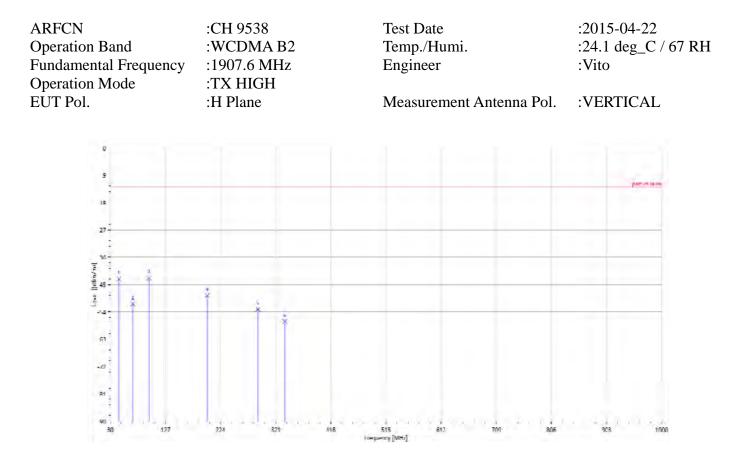


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	43.58	S	-45.46	-33.30	-11.36	-0.79	-13.01	-32.45
	121.18	S	-65.65	-61.21	-3.17	-1.28	-13.01	-52.64
	150.28	S	-52.90	-51.80	0.31	-1.41	-13.01	-39.89
	189.08	S	-55.25	-57.72	4.10	-1.62	-13.01	-42.24
	207.51	S	-58.49	-60.71	3.95	-1.73	-13.01	-45.48
	352.04	S	-61.41	-62.54	3.43	-2.30	-13.01	-48.40

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 371 of 594

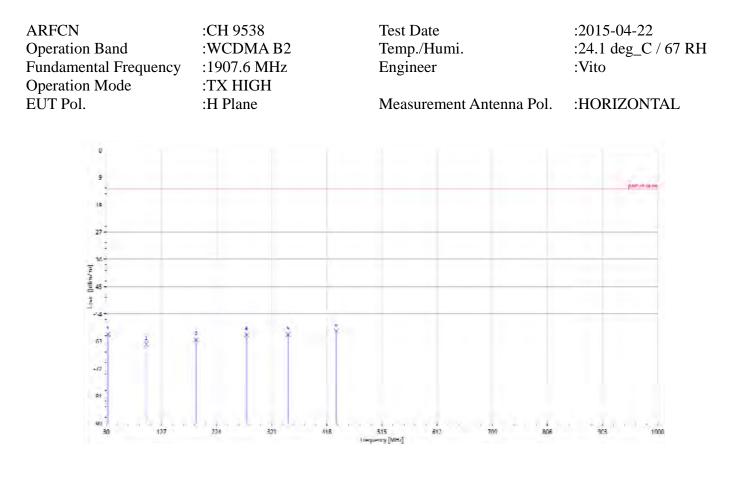


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	45.52	S	-43.13	-32.39	-9.96	-0.78	-13.01	-30.12
	69.77	S	-51.38	-48.41	-1.97	-1.00	-13.01	-38.37
	97.90	S	-42.73	-38.43	-3.11	-1.19	-13.01	-29.72
	200.72	S	-48.57	-50.70	3.80	-1.67	-13.01	-35.56
	289.96	S	-53.17	-54.53	3.41	-2.05	-13.01	-40.16
	337.49	S	-57.21	-58.56	3.46	-2.11	-13.01	-44.20

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 372 of 594



	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	32.91	S	-60.77	-40.10	-19.97	-0.70	-13.01	-47.76
	100.81	S	-63.96	-59.40	-3.36	-1.20	-13.01	-50.95
	188.11	S	-62.55	-64.98	4.05	-1.63	-13.01	-49.54
	277.35	S	-60.82	-62.04	3.24	-2.03	-13.01	-47.81
	350.10	S	-60.75	-62.05	3.44	-2.14	-13.01	-47.74
	434.49	S	-59.72	-60.84	3.49	-2.37	-13.01	-46.71

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 373 of 594

#### **Radiated Spurious Emission Measurement Result: WCDMA IV Mode**

ARFCN	:CH 1312
Operation Band	:WCDMA B4
Fundamental Frequency	:1712.4 MHz
Operation Mode	:TX LOW
EUT Pol.	:H Plane

Test Date Temp./Humi. Engineer

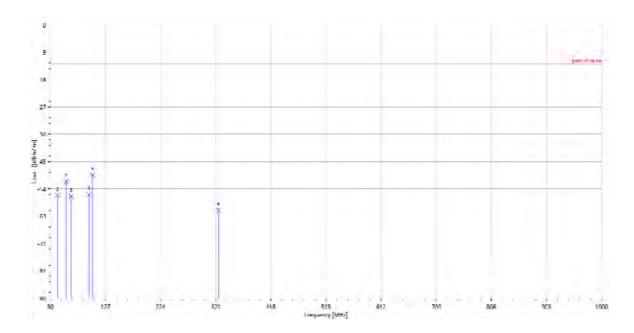
Measurement Antenna Pol.

:VERTICAL

:24.1 deg\_C / 67 RH

:2015-04-22

:Vito

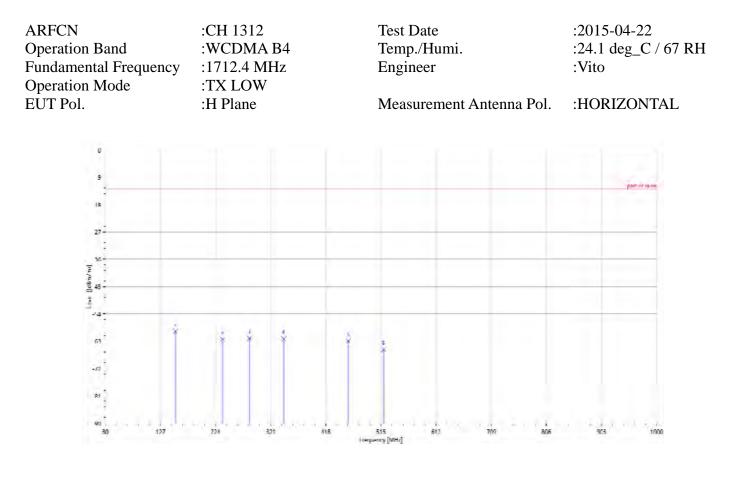


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-56.04	-43.13	-12.11	-0.80	-13.01	-43.03
58.13	S	-51.56	-46.70	-3.92	-0.93	-13.01	-38.55
66.86	S	-56.42	-53.08	-2.33	-1.01	-13.01	-43.41
97.90	S	-55.91	-51.61	-3.11	-1.19	-13.01	-42.90
104.69	S	-49.42	-44.72	-3.47	-1.24	-13.01	-36.41
325.85	S	-61.14	-62.36	3.47	-2.25	-13.01	-48.13

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 374 of 594

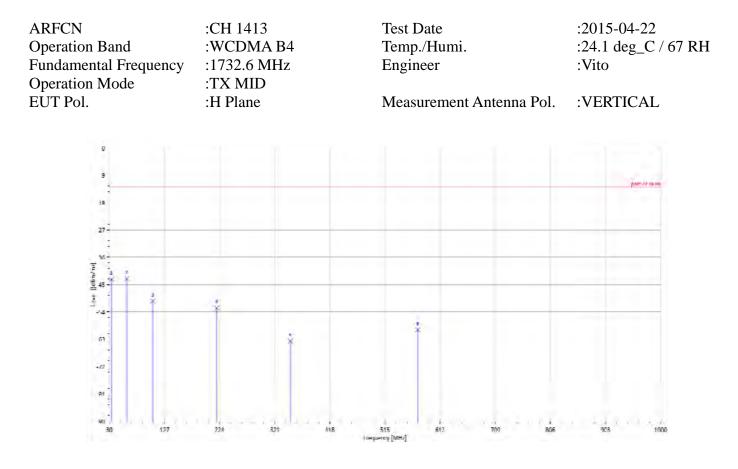


Note	EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
S	-59.77	-58.77	0.62	-1.61	-13.01	-46.76
S	-62.36	-63.85	3.31	-1.82	-13.01	-49.35
S	-62.02	-63.34	3.35	-2.03	-13.01	-49.01
S	-62.25	-63.38	3.45	-2.32	-13.01	-49.24
S	-62.97	-64.09	3.69	-2.56	-13.01	-49.96
S	-65.74	-67.10	4.01	-2.65	-13.01	-52.73
	F/H/E/S S S S S S S	F/H/E/S dBm   S -59.77   S -62.36   S -62.02   S -62.25   S -62.97	F/H/E/SdBmOutput LevelF/H/E/SdBmdBmS-59.77-58.77S-62.36-63.85S-62.02-63.34S-62.25-63.38S-62.97-64.09	F/H/E/SdBmOutput LevelGain dBiS-59.77-58.770.62S-62.36-63.853.31S-62.02-63.343.35S-62.25-63.383.45S-62.97-64.093.69	VictureOutput LevelGainLossF/H/E/SdBmdBmdBidBS-59.77-58.770.62-1.61S-62.36-63.853.31-1.82S-62.02-63.343.35-2.03S-62.25-63.383.45-2.32S-62.97-64.093.69-2.56	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 375 of 594

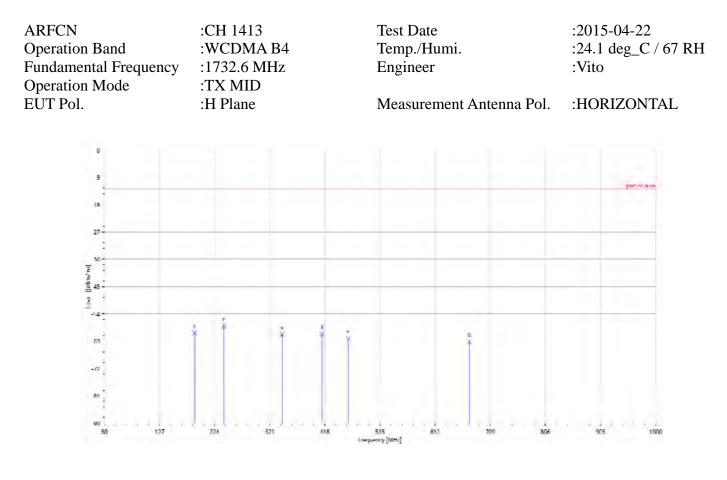


Note	EIRP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
S	-43.31	-23.47	-19.13	-0.71	-13.01	-30.30
S	-43.08	-39.08	-3.05	-0.95	-13.01	-30.07
S	-50.42	-45.66	-3.52	-1.24	-13.01	-37.41
S	-52.76	-54.99	4.01	-1.78	-13.01	-39.75
S	-63.67	-64.93	3.44	-2.18	-13.01	-50.66
S	-59.88	-61.12	4.13	-2.89	-13.01	-46.87
	F/H/E/S S S S S S S	F/H/E/S   dBm     S   -43.31     S   -43.08     S   -50.42     S   -52.76     S   -63.67	F/H/E/S   dBm   dBm     S   -43.31   -23.47     S   -43.08   -39.08     S   -50.42   -45.66     S   -52.76   -54.99     S   -63.67   -64.93	F/H/E/SdBmOutput LevelGain dBiS-43.31-23.47-19.13S-43.08-39.08-3.05S-50.42-45.66-3.52S-52.76-54.994.01S-63.67-64.933.44	F/H/E/SdBmOutput Level dBmGain dBiLoss dBS-43.31-23.47-19.13-0.71S-43.08-39.08-3.05-0.95S-50.42-45.66-3.52-1.24S-52.76-54.994.01-1.78S-63.67-64.933.44-2.18	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 376 of 594

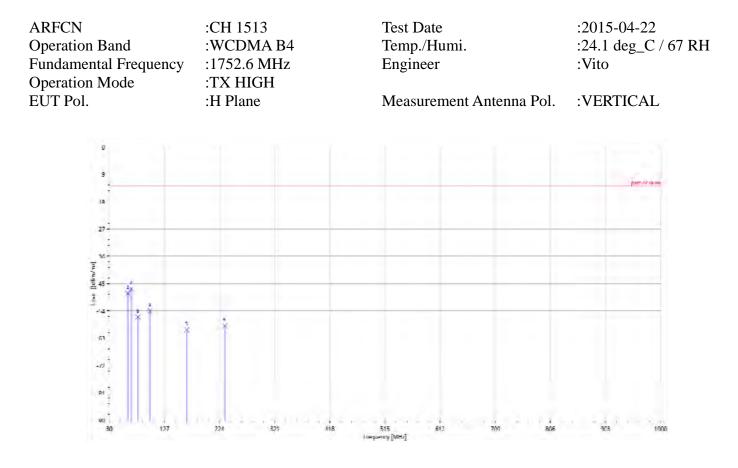


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	189.08	S	-60.31	-62.79	4.10	-1.62	-13.01	-47.30
	240.49	S	-57.93	-59.19	3.14	-1.88	-13.01	-44.92
	343.31	S	-60.73	-61.90	3.45	-2.27	-13.01	-47.72
	413.15	S	-60.57	-61.38	3.31	-2.50	-13.01	-47.56
	459.71	S	-62.13	-63.17	3.70	-2.66	-13.01	-49.12
	672.14	S	-63.21	-64.97	4.81	-3.06	-13.01	-50.20

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 377 of 594

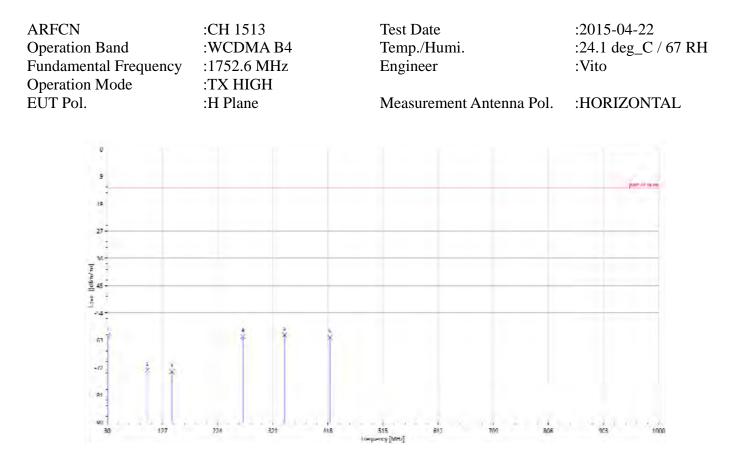


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
62.98	S	-48.28	-44.50	-2.81	-0.97	-13.01	-35.27
68.80	S	-46.81	-43.69	-2.09	-1.03	-13.01	-33.80
80.44	S	-56.01	-53.24	-1.71	-1.07	-13.01	-43.00
101.78	S	-54.08	-49.48	-3.39	-1.21	-13.01	-41.07
166.77	S	-60.26	-60.90	2.17	-1.53	-13.01	-47.25
233.70	S	-58.93	-60.55	3.43	-1.81	-13.01	-45.92

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 378 of 594



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-61.43	-39.09	-21.66	-0.68	-13.01	-48.42
100.81	S	-72.84	-68.28	-3.36	-1.20	-13.01	-59.83
143.49	S	-73.38	-71.17	-0.70	-1.52	-13.01	-60.37
268.62	S	-61.81	-62.76	2.95	-2.00	-13.01	-48.80
342.34	S	-61.30	-62.58	3.45	-2.17	-13.01	-48.29
421.88	S	-62.03	-62.87	3.38	-2.54	-13.01	-49.02

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 379 of 594

:2015-04-22

:VERTICAL

#### **Radiated Spurious Emission Measurement Result: HSUPA V Mode**

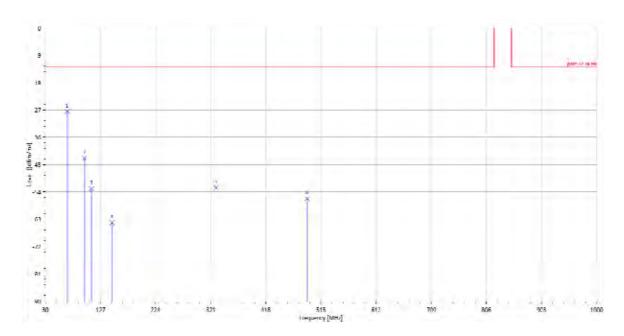
ARFCN	:CH 4132
Operation Band	:HSUPA B5
Fundamental Frequency	:826.4 MHz
Operation Mode	:TX LOW
EUT Pol.	:H Plane

Test Date Temp./Humi. Engineer

Measurement Antenna Pol.

:Vito

:24.1 deg\_C / 67 RH

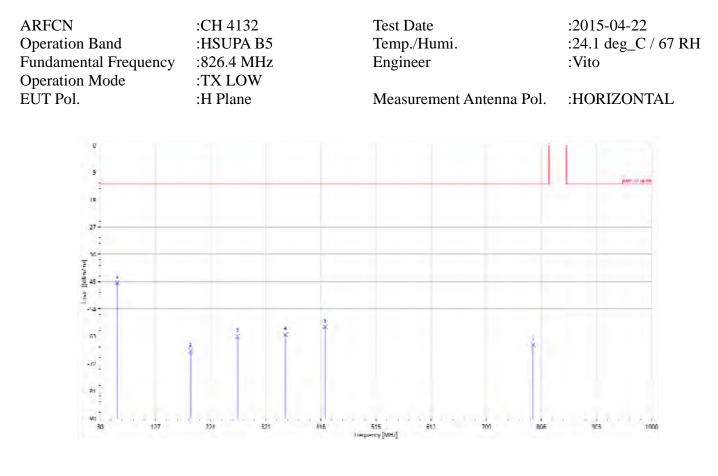


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
68.80	S	-27.56	-24.44	-2.09	-1.03	-13.00	-14.56
98.87	S	-42.99	-38.57	-3.22	-1.20	-13.00	-29.99
111.48	S	-52.99	-48.15	-3.56	-1.28	-13.00	-39.99
147.37	S	-64.17	-62.64	-0.11	-1.42	-13.00	-51.17
330.70	S	-52.55	-53.87	3.46	-2.14	-13.00	-39.55
490.75	S	-56.29	-57.55	3.96	-2.70	-13.00	-43.29

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 380 of 594

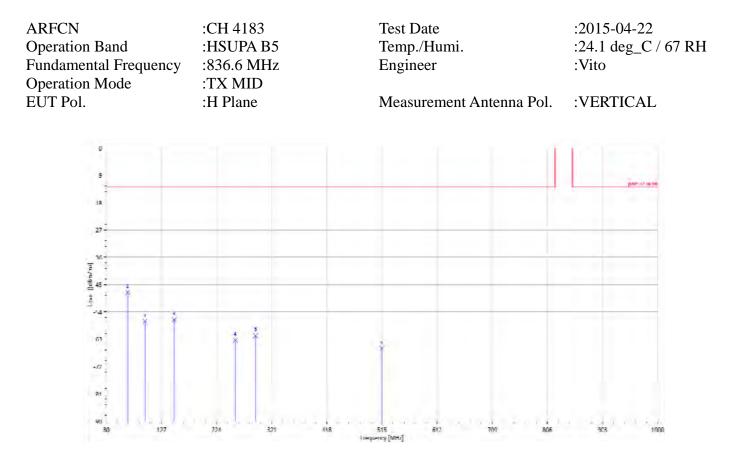


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	60.07	S	-45.48	-41.35	-3.17	-0.96	-13.00	-32.48
	189.08	S	-67.85	-70.32	4.10	-1.62	-13.00	-54.85
	271.53	S	-63.11	-64.26	3.12	-1.98	-13.00	-50.11
	355.92	S	-62.55	-63.71	3.41	-2.25	-13.00	-49.55
	425.76	S	-59.96	-61.01	3.42	-2.37	-13.00	-46.96
	791.45	S	-65.78	-67.53	5.21	-3.46	-13.00	-52.78

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 381 of 594

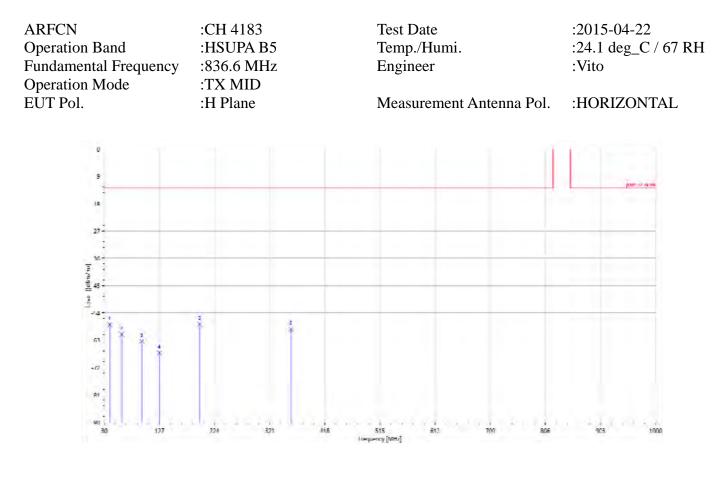


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
67.83	S	-47.53	-44.29	-2.21	-1.03	-13.00	-34.53
97.90	S	-57.24	-52.93	-3.11	-1.19	-13.00	-44.24
149.31	S	-56.66	-55.39	0.18	-1.45	-13.00	-43.66
256.98	S	-63.40	-63.74	2.29	-1.95	-13.00	-50.40
292.87	S	-61.86	-63.23	3.44	-2.06	-13.00	-48.86
515.00	S	-66.06	-67.35	4.02	-2.73	-13.00	-53.06

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 382 of 594

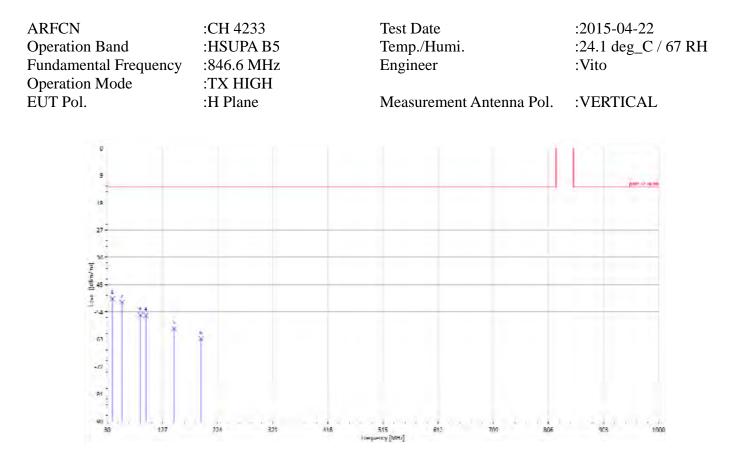


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-57.91	-42.78	-14.34	-0.79	-13.00	-44.91
61.04	S	-61.01	-57.01	-3.05	-0.95	-13.00	-48.01
95.96	S	-63.39	-59.33	-2.90	-1.16	-13.00	-50.39
127.00	S	-67.19	-63.10	-2.70	-1.39	-13.00	-54.19
197.81	S	-57.72	-59.90	3.86	-1.68	-13.00	-44.72
358.83	S	-59.42	-60.65	3.40	-2.17	-13.00	-46.42

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 383 of 594

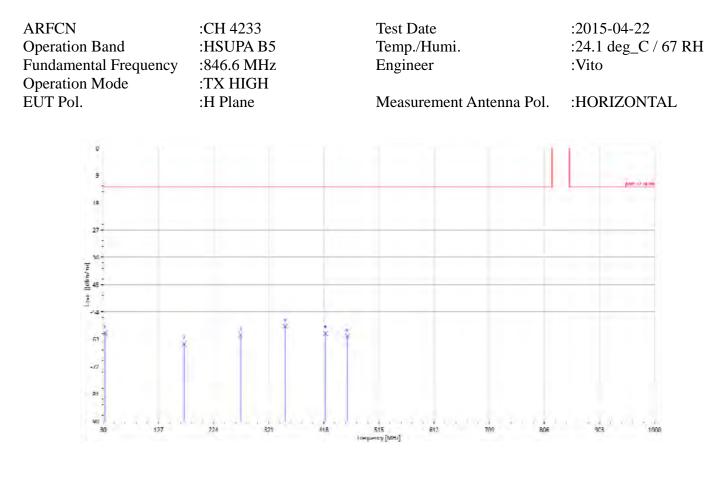


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-49.66	-33.76	-15.13	-0.76	-13.00	-36.66
56.19	S	-50.88	-45.24	-4.70	-0.94	-13.00	-37.88
88.20	S	-55.05	-51.79	-2.16	-1.11	-13.00	-42.05
97.90	S	-55.19	-50.89	-3.11	-1.19	-13.00	-42.19
147.37	S	-59.50	-57.96	-0.11	-1.42	-13.00	-46.50
194.90	S	-62.87	-65.16	3.96	-1.68	-13.00	-49.87

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 384 of 594



Note	ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
S	-61.06	-40.38	-19.97	-0.70	-13.00	-48.06
S	-64.59	-65.90	2.85	-1.54	-13.00	-51.59
S	-61.64	-62.79	3.12	-1.98	-13.00	-48.64
S	-58.75	-60.05	3.44	-2.14	-13.00	-45.75
S	-61.14	-61.90	3.38	-2.62	-13.00	-48.14
S	-61.95	-63.00	3.70	-2.66	-13.00	-48.95
	F/H/E/S S S S S S	F/H/E/S   dBm     S   -61.06     S   -64.59     S   -61.64     S   -58.75     S   -61.14	S   -61.06   -40.38     S   -64.59   -65.90     S   -61.64   -62.79     S   -58.75   -60.05     S   -61.14   -61.90	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Output LevelGainLossF/H/E/SdBmdBmdBddBS-61.06-40.38-19.97-0.70S-64.59-65.902.85-1.54S-61.64-62.793.12-1.98S-58.75-60.053.44-2.14S-61.14-61.903.38-2.62	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 385 of 594

#### **Radiated Spurious Emission Measurement Result: CDMA BC0 Mode**

:CH 1013
:CDMA 850
:824.7 MHz
:TX LOW
:E2 Plane

Test Date Temp./Humi. Engineer

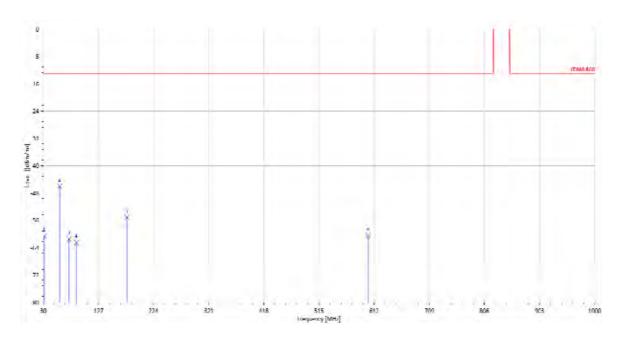
Measurement Antenna Pol.

:Vito

:VERTICAL

:25.5 deg\_C / 61 RH

:2015-04-24

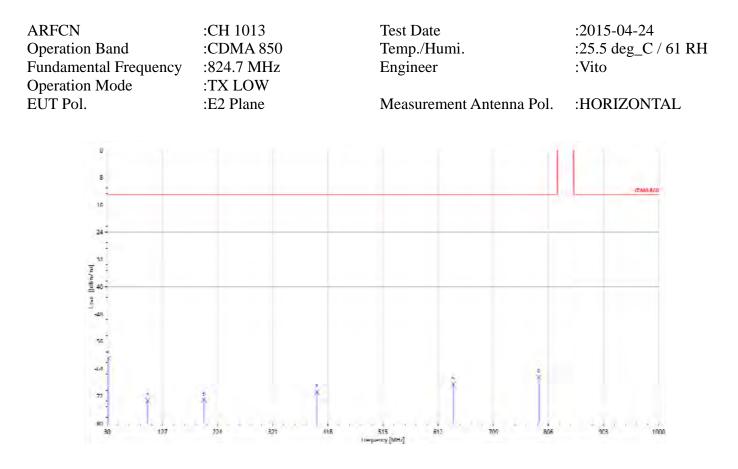


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.62	S	-60.64	-38.86	-21.09	-0.69	-13.00	-47.64
59.15	S	-46.04	-41.57	-3.52	-0.95	-13.00	-33.04
75.34	S	-61.61	-58.75	-1.80	-1.06	-13.00	-48.61
88.30	S	-62.57	-59.30	-2.16	-1.11	-13.00	-49.57
177.36	S	-55.12	-56.84	3.38	-1.66	-13.00	-42.12
601.64	S	-60.47	-61.67	4.33	-3.13	-13.00	-47.47

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 386 of 594

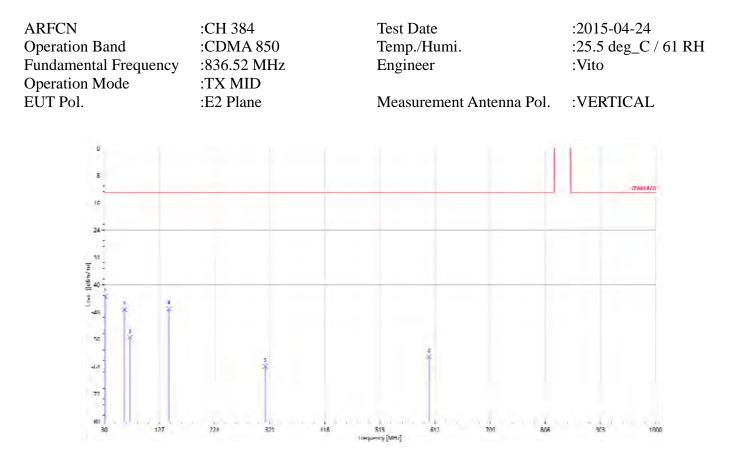


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.62	S	-61.07	-39.29	-21.09	-0.69	-13.00	-48.07
101.25	S	-73.44	-68.86	-3.37	-1.20	-13.00	-60.44
200.03	S	-73.16	-75.27	3.78	-1.68	-13.00	-60.16
399.22	S	-70.89	-71.77	3.20	-2.32	-13.00	-57.89
638.88	S	-68.60	-70.11	4.55	-3.05	-13.00	-55.60
789.48	S	-66.54	-68.46	5.21	-3.28	-13.00	-53.54

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 387 of 594

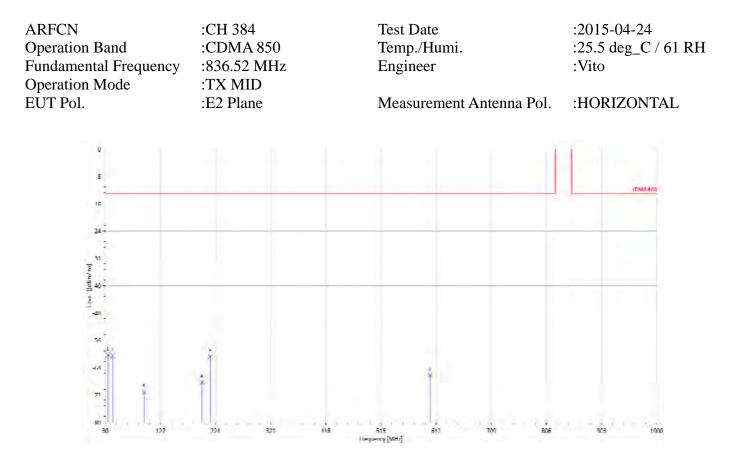


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	31.62	S	-43.40	-21.62	-21.09	-0.69	-13.00	-30.40
	65.63	S	-47.31	-43.84	-2.48	-0.99	-13.00	-34.31
	75.34	S	-55.54	-52.67	-1.80	-1.06	-13.00	-42.54
	143.36	S	-47.13	-44.91	-0.72	-1.51	-13.00	-34.13
	313.39	S	-63.95	-65.31	3.48	-2.11	-13.00	-50.95
	601.64	S	-61.15	-62.35	4.33	-3.13	-13.00	-48.15

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 388 of 594

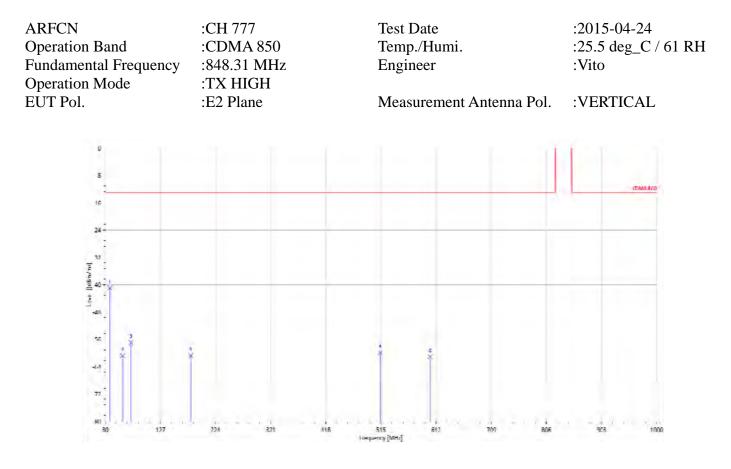


Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.86	S	-60.28	-41.27	-18.28	-0.72	-13.00	-47.28
42.95	S	-60.52	-47.88	-11.84	-0.80	-13.00	-47.52
98.01	S	-71.25	-66.93	-3.13	-1.19	-13.00	-58.25
200.03	S	-68.35	-70.45	3.78	-1.68	-13.00	-55.35
214.61	S	-60.87	-63.11	4.00	-1.77	-13.00	-47.87
601.64	S	-66.28	-67.47	4.33	-3.13	-13.00	-53.28

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 389 of 594

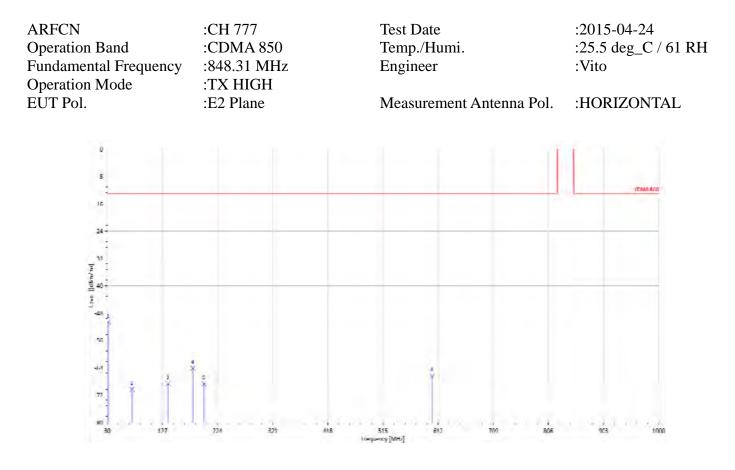


	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	38.10	S	-41.03	-24.65	-15.65	-0.73	-13.00	-28.03
	60.77	S	-60.87	-56.83	-3.08	-0.95	-13.00	-47.87
	75.34	S	-56.95	-54.09	-1.80	-1.06	-13.00	-43.95
	180.60	S	-60.75	-62.87	3.70	-1.58	-13.00	-47.75
	514.19	S	-59.95	-61.24	4.02	-2.73	-13.00	-46.95
	601.64	S	-61.14	-62.33	4.33	-3.13	-13.00	-48.14

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 390 of 594



	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	31.62	S	-50.72	-28.94	-21.09	-0.69	-13.00	-37.72
	73.72	S	-70.41	-67.53	-1.84	-1.04	-13.00	-57.41
	136.88	S	-68.74	-65.75	-1.61	-1.38	-13.00	-55.74
	180.60	S	-64.22	-66.34	3.70	-1.58	-13.00	-51.22
	200.03	S	-68.77	-70.87	3.78	-1.68	-13.00	-55.77
	601.64	S	-66.45	-67.64	4.33	-3.13	-13.00	-53.45

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 391 of 594

#### **Radiated Spurious Emission Measurement Result: CDMA BC1 Mode**

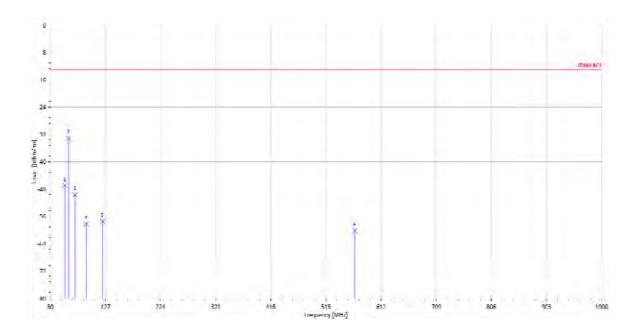
ARFCN	:CH 25
Operation Band	:CDMA 1900
Fundamental Frequency	:1851.25 MHz
Operation Mode	:TX LOW
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer

:2015-04-24 :25.5 deg\_C / 61 RH :Vito

Measurement Antenna Pol.

:VERTICAL

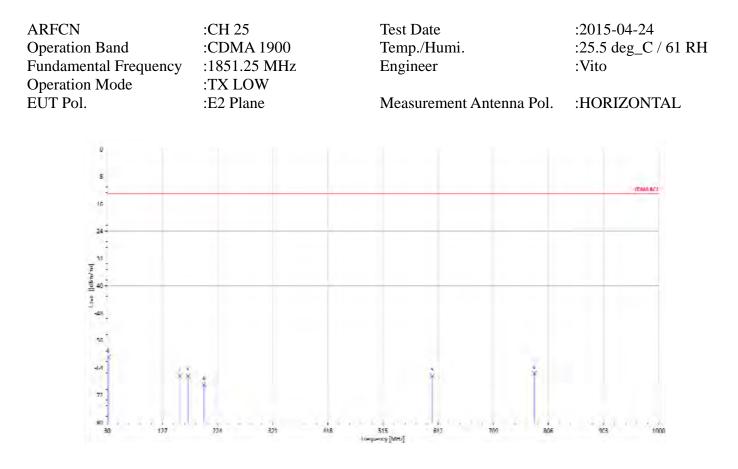


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
55.91	S	-46.98	-43.39	-2.66	-0.93	-13.00	-33.98
62.39	S	-33.16	-31.46	-0.73	-0.96	-13.00	-20.16
73.72	S	-49.72	-48.99	0.31	-1.04	-13.00	-36.72
93.16	S	-58.25	-56.63	-0.45	-1.17	-13.00	-45.25
122.30	S	-57.55	-55.31	-0.93	-1.31	-13.00	-44.55
566.01	S	-60.20	-63.49	6.23	-2.95	-13.00	-47.20
62.39 73.72 93.16 122.30	S S S S	-33.16 -49.72 -58.25 -57.55	-31.46 -48.99 -56.63 -55.31	-0.73 0.31 -0.45 -0.93	-0.96 -1.04 -1.17 -1.31	-13.00 -13.00 -13.00 -13.00	-20.16 -36.72 -45.25 -44.55

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 392 of 594

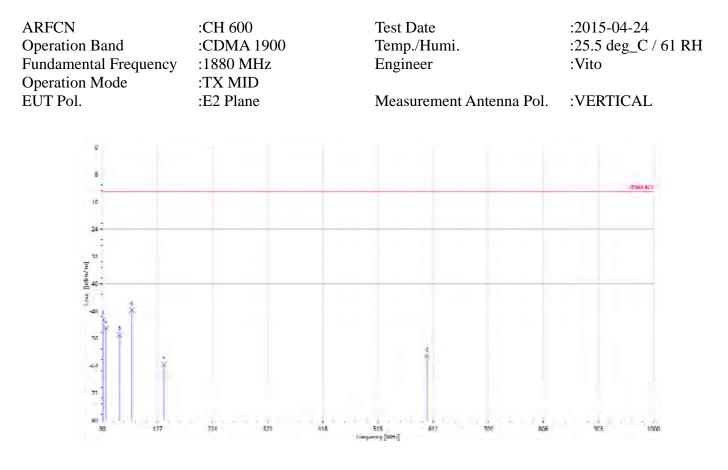


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	31.62	S	-60.91	-41.27	-18.94	-0.69	-13.00	-47.91
	157.93	S	-66.37	-68.17	3.27	-1.47	-13.00	-53.37
	172.50	S	-66.41	-69.87	5.00	-1.54	-13.00	-53.41
	200.03	S	-69.06	-73.31	5.93	-1.68	-13.00	-56.06
	601.64	S	-66.46	-69.81	6.48	-3.13	-13.00	-53.46
	781.39	S	-65.76	-69.77	7.35	-3.33	-13.00	-52.76

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 393 of 594

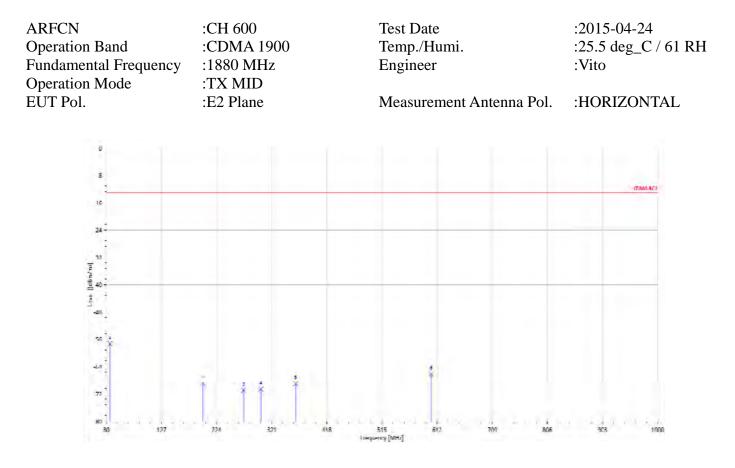


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.62	S	-50.60	-30.97	-18.94	-0.69	-13.00	-37.60
36.48	S	-53.14	-37.64	-14.81	-0.69	-13.00	-40.14
60.77	S	-54.91	-53.02	-0.93	-0.95	-13.00	-41.91
81.82	S	-47.75	-47.02	0.36	-1.09	-13.00	-34.75
138.50	S	-63.69	-63.09	0.74	-1.35	-13.00	-50.69
601.64	S	-61.21	-64.56	6.48	-3.13	-13.00	-48.21

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 394 of 594

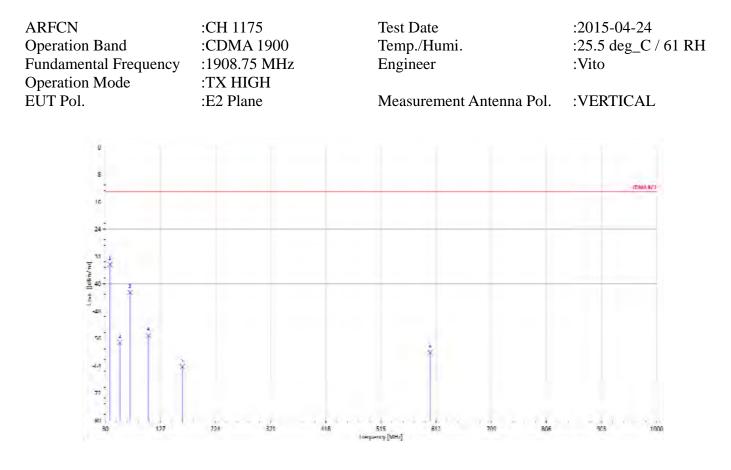


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
36.48	S	-57.29	-41.79	-14.81	-0.69	-13.00	-44.29
200.03	S	-68.92	-73.17	5.93	-1.68	-13.00	-55.92
271.29	S	-70.92	-74.20	5.27	-1.98	-13.00	-57.92
302.05	S	-70.64	-74.18	5.65	-2.10	-13.00	-57.64
363.59	S	-68.96	-72.16	5.52	-2.32	-13.00	-55.96
601.64	S	-66.22	-69.57	6.48	-3.13	-13.00	-53.22

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 395 of 594

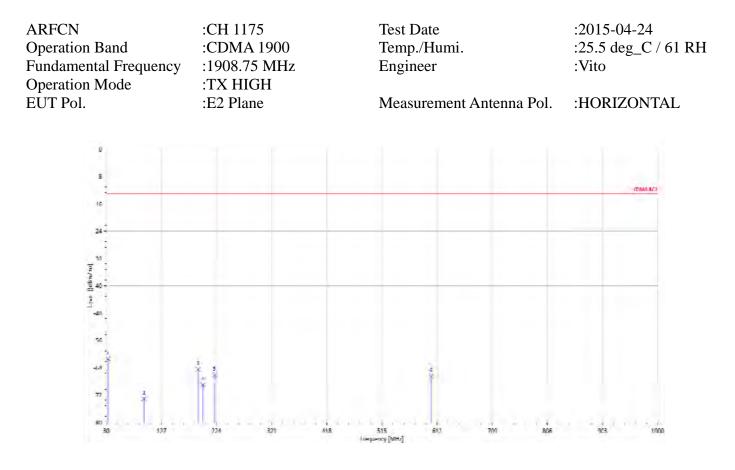


Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.10	S	-34.42	-20.19	-13.50	-0.73	-13.00	-21.42
55.91	S	-57.24	-53.64	-2.66	-0.93	-13.00	-44.24
73.72	S	-42.60	-41.87	0.31	-1.04	-13.00	-29.60
106.11	S	-55.23	-52.64	-1.35	-1.23	-13.00	-42.23
166.03	S	-64.31	-67.00	4.23	-1.55	-13.00	-51.31
601.64	S	-60.24	-63.59	6.48	-3.13	-13.00	-47.24

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Report No.: E2/2015/30017 Issue Date: Apr. 30, 2015 Page: 396 of 594



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
 MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
33.24	S	-61.50	-43.26	-17.54	-0.70	-13.00	-48.50
96.39	S	-73.14	-71.18	-0.80	-1.17	-13.00	-60.14
191.94	S	-64.58	-69.17	6.22	-1.63	-13.00	-51.58
200.03	S	-69.11	-73.36	5.93	-1.68	-13.00	-56.11
221.09	S	-66.15	-70.45	6.11	-1.81	-13.00	-53.15
601.64	S	-66.58	-69.93	6.48	-3.13	-13.00	-53.58

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