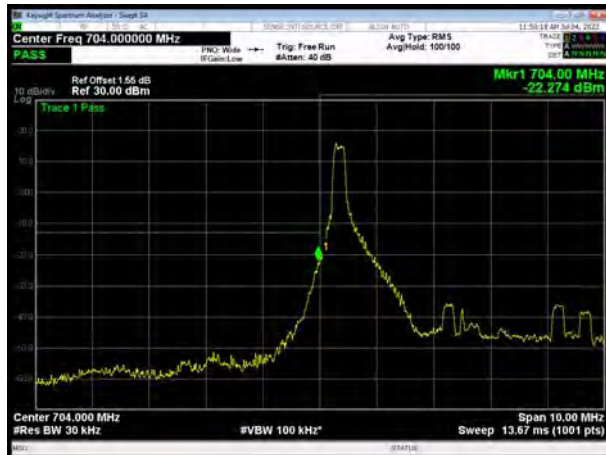


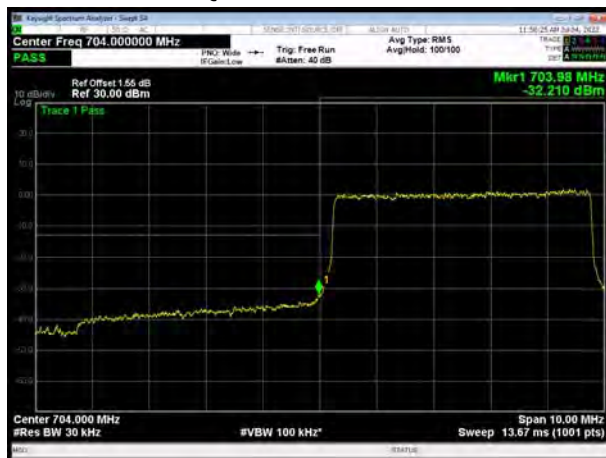
LTE Band 17 QPSK 5MHz CH-Low, 1 RB



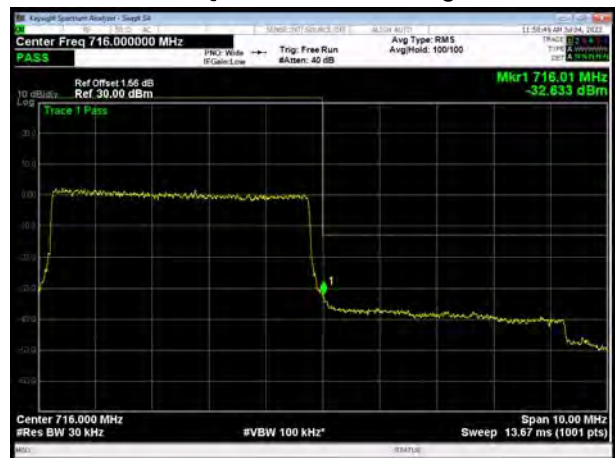
LTE Band 17 QPSK 5MHz CH-High, 1 RB



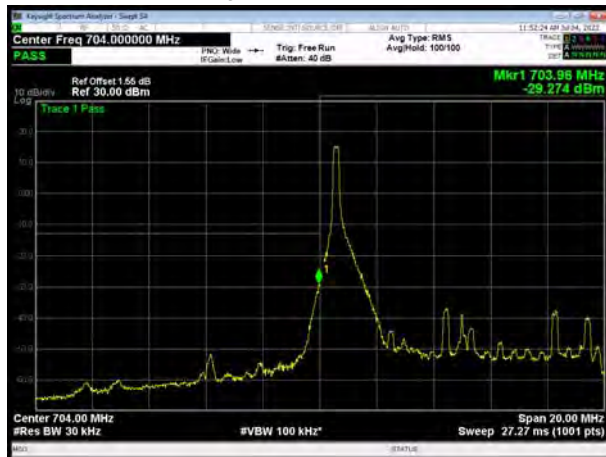
LTE Band 17 QPSK 5MHz CH-Low, 100%RB



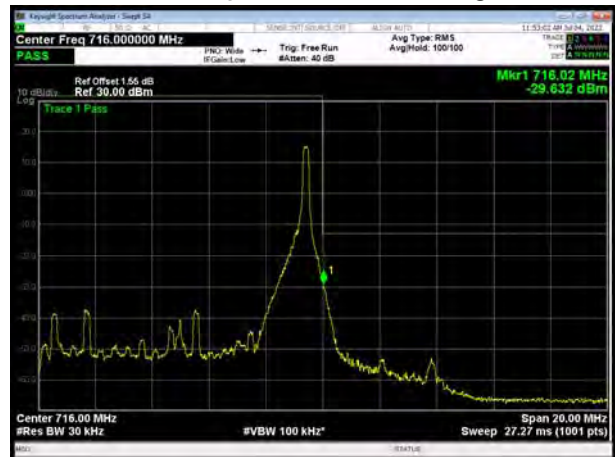
LTE Band 17 QPSK 5MHz CH-High, 100%RB



LTE Band 17 QPSK 10MHz CH-Low, 1 RB



LTE Band 17 QPSK 10MHz CH-High, 1 RB





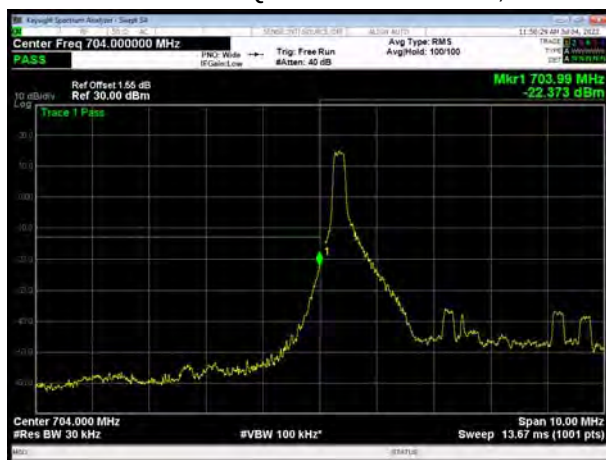
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LTE Band 17 QPSK 10MHz CH-High, 100%RB



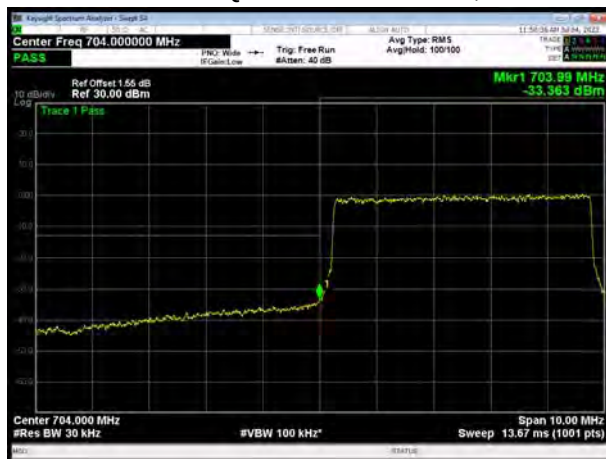
LTE Band 17 16QAM 5MHz CH-Low, 1 RB



LTE Band 17 16QAM 5MHz CH-High, 1 RB



LTE Band 17 16QAM 5MHz CH-Low, 100%RB

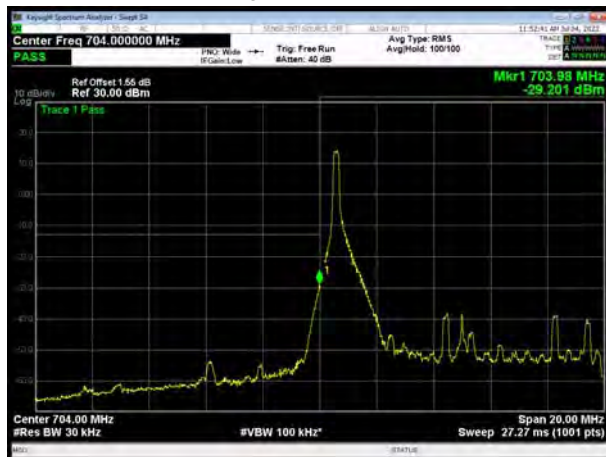


LTE Band 17 16QAM 5MHz CH-High, 100%RB

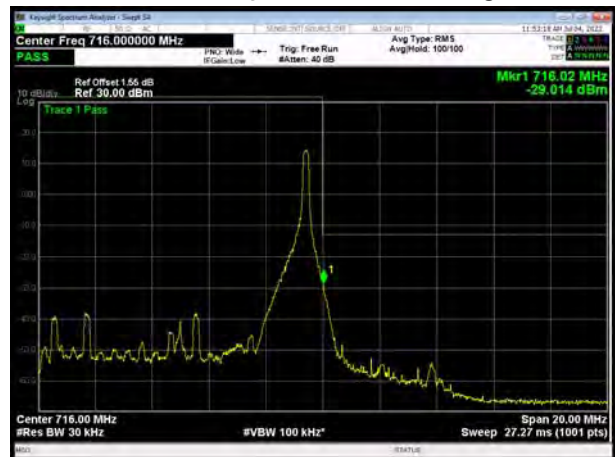




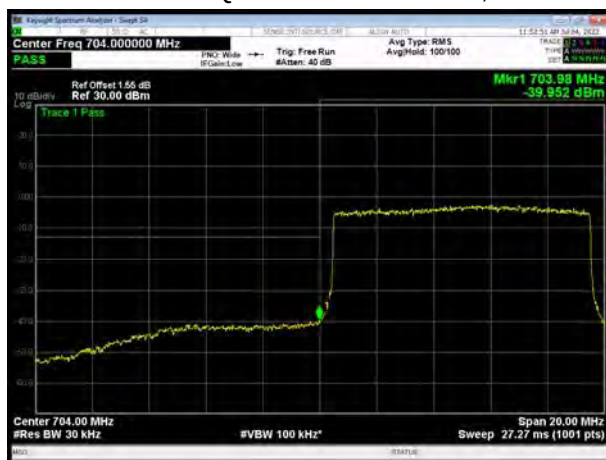
LTE Band 17 16QAM 10MHz CH-Low, 1 RB



LTE Band 17 16QAM 10MHz CH-High, 1 RB



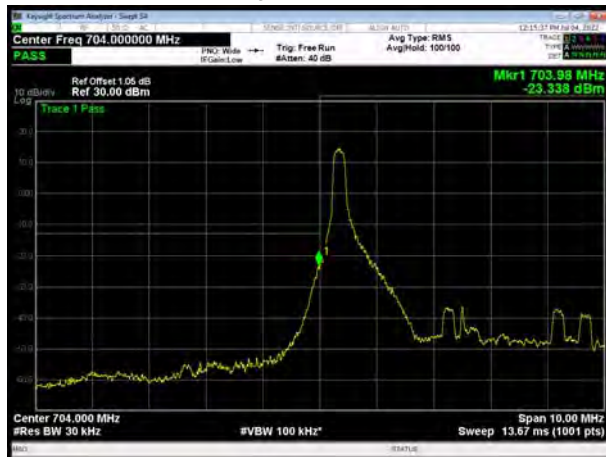
LTE Band 17 16QAM 10MHz CH-Low, 100%RB



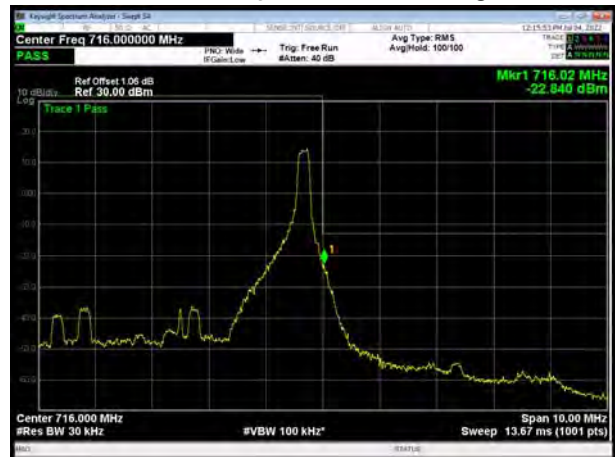
LTE Band 17 16QAM 10MHz CH-High, 100%RB



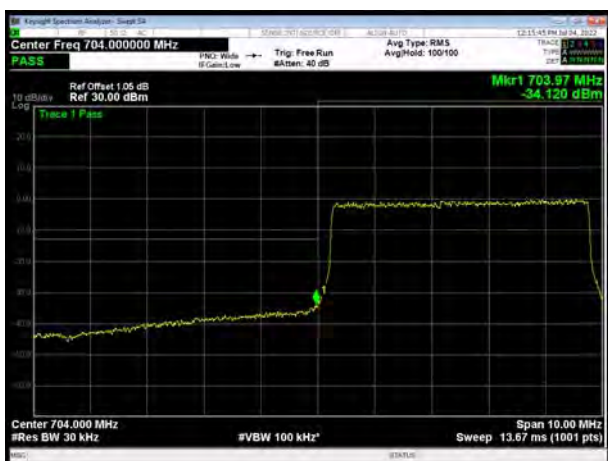
LTE Band 17 64QAM 5MHz CH-Low, 1 RB



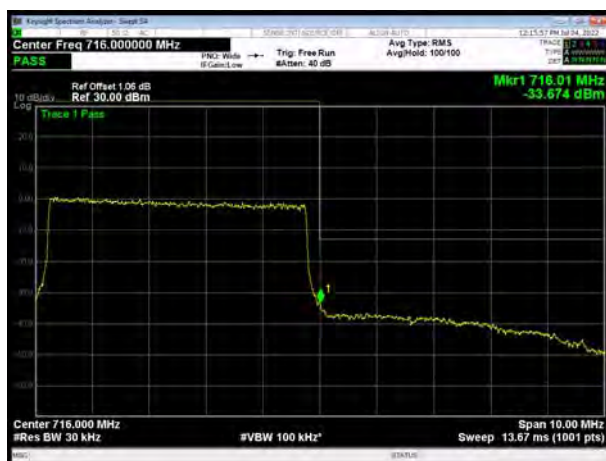
LTE Band 17 64QAM 5MHz CH-High, 1 RB



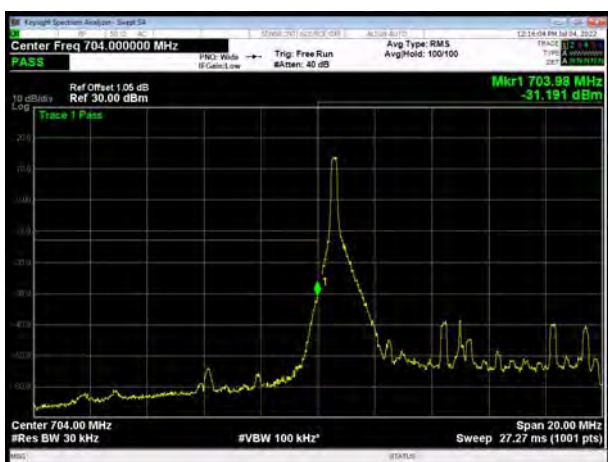
LTE Band 17 64QAM 5MHz CH-Low, 100%RB



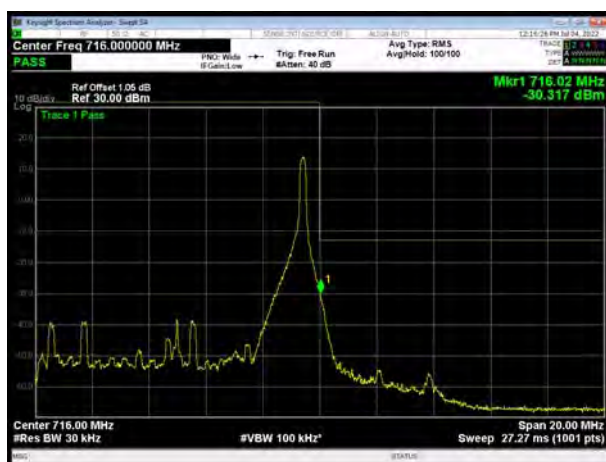
LTE Band 17 64QAM 5MHz CH-High, 100%RB



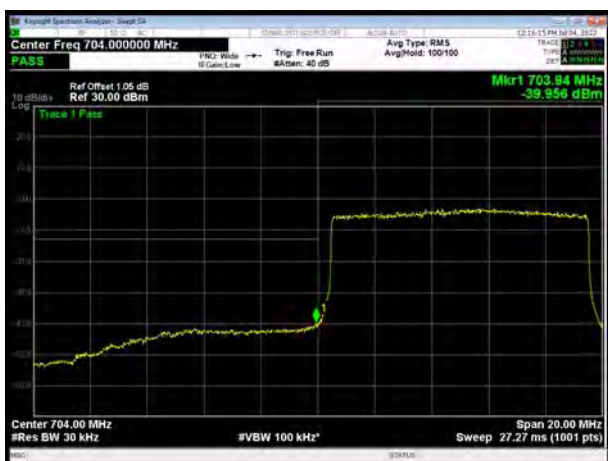
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LTE Band 17 64QAM 10MHz CH-High, 1 RB



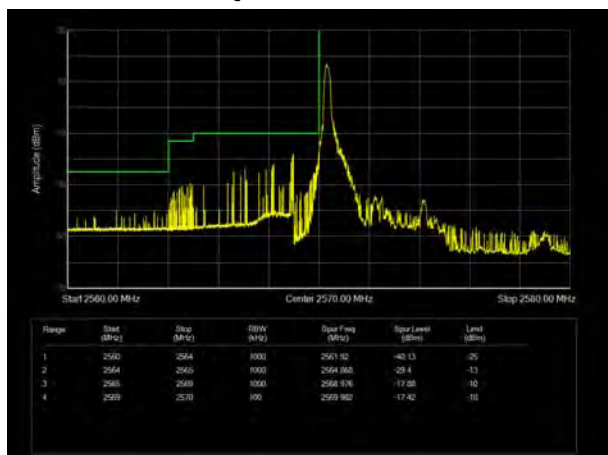
LTE Band 17 64QAM 10MHz CH-Low, 100%RB



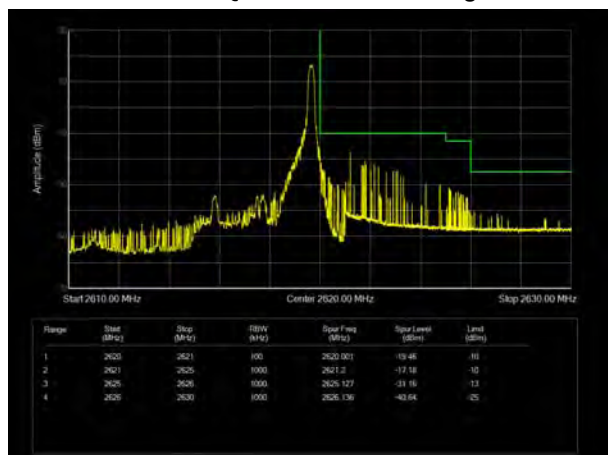
LTE Band 17 64QAM 10MHz CH-High, 100%RB



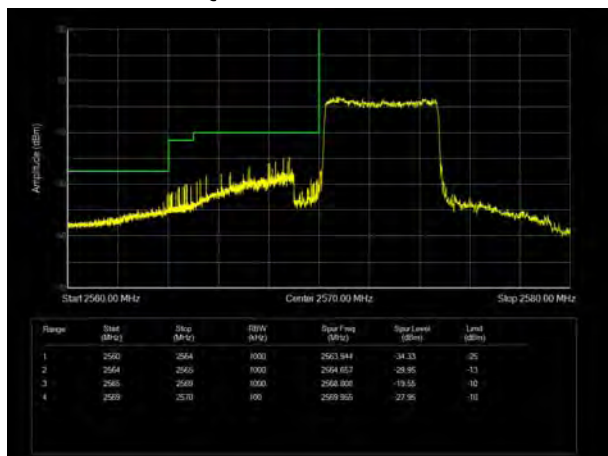
LTE Band 38 QPSK 5MHz CH-Low, 1 RB



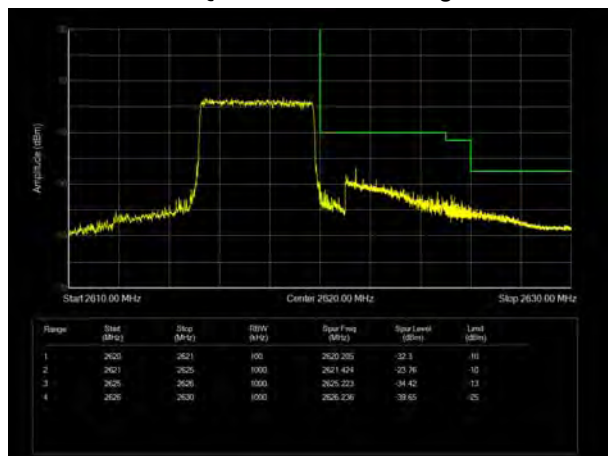
LTE Band 38 QPSK 5MHz CH-High, 1 RB



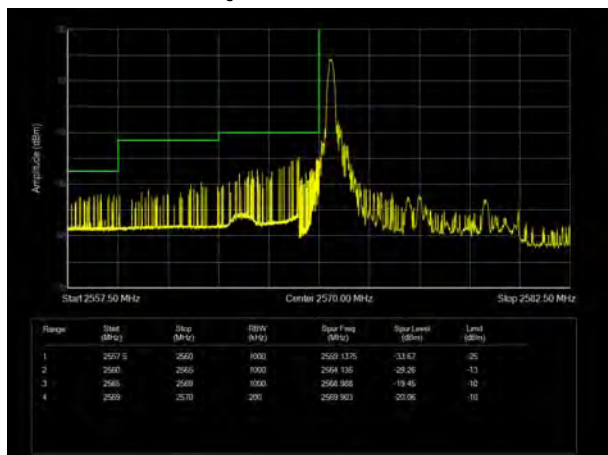
LTE Band 38 QPSK 5MHz CH-Low, 100%RB



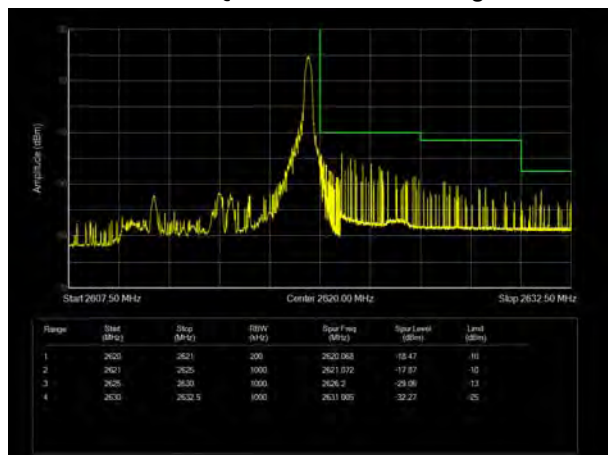
LTE Band 38 QPSK 5MHz CH-High, 100%RB



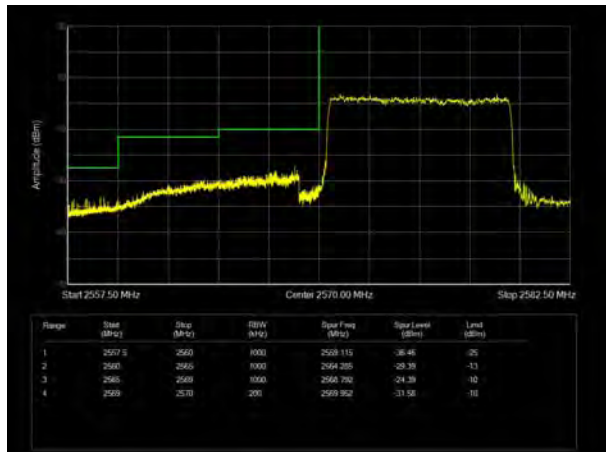
LTE Band 38 QPSK 10MHz CH-Low, 1 RB



LTE Band 38 QPSK 10MHz CH-High, 1 RB



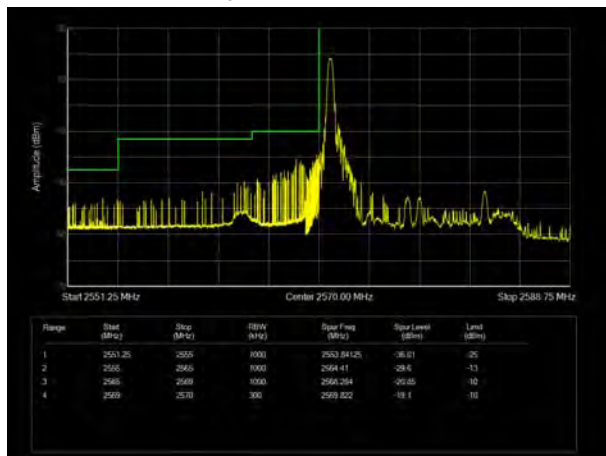
LTE Band 38 QPSK 10MHz CH-Low, 100%RB



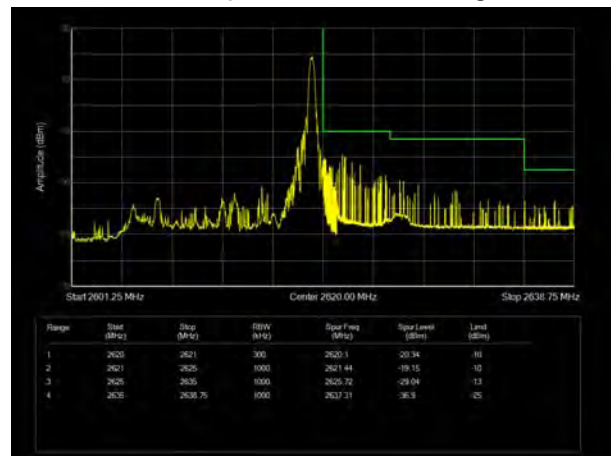
LTE Band 38 QPSK 10MHz CH-High, 100%RB



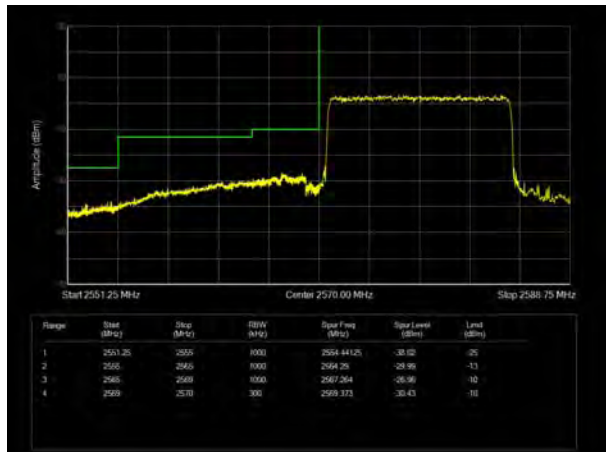
LTE Band 38 QPSK 15MHz CH-Low, 1 RB



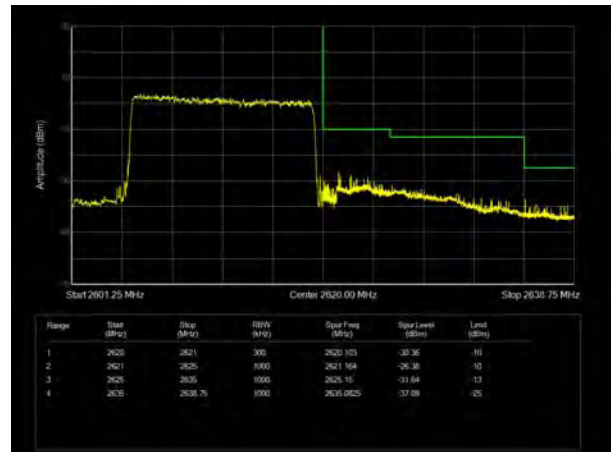
LTE Band 38 QPSK 15MHz CH-High, 1 RB



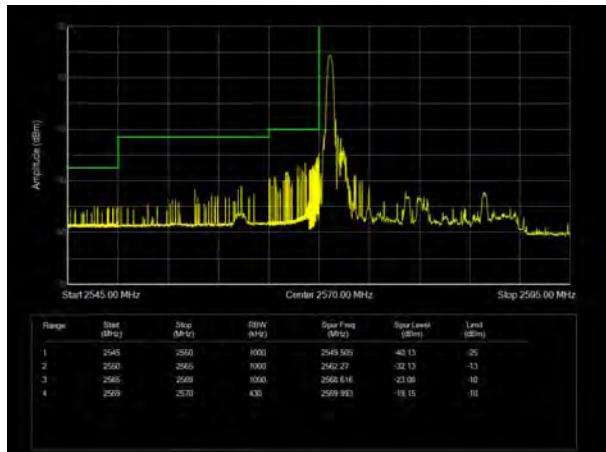
LTE Band 38 QPSK 15MHz CH-Low, 100%RB



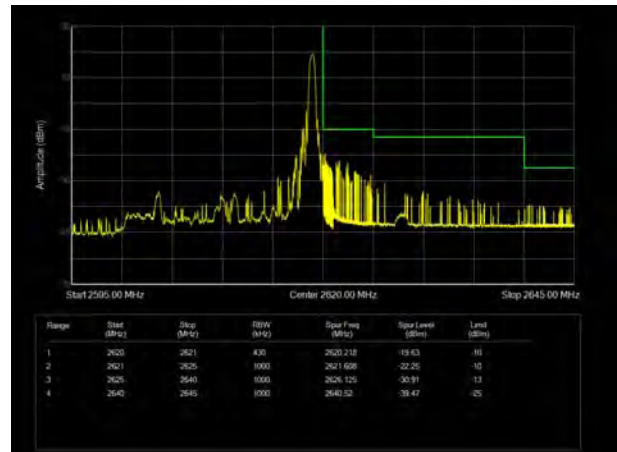
LTE Band 38 QPSK 15MHz CH-High, 100%RB



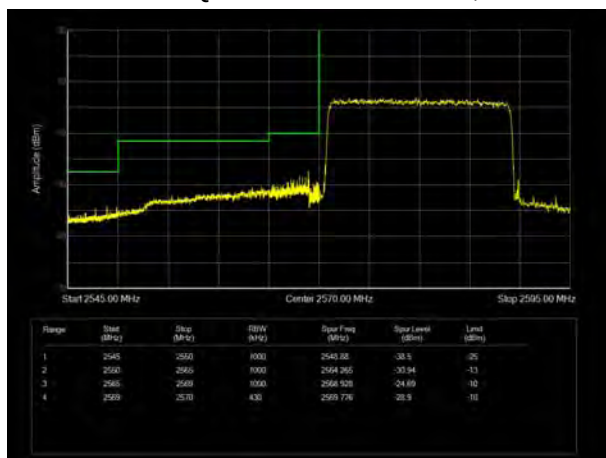
LTE Band 38 QPSK 20MHz CH-Low, 1 RB



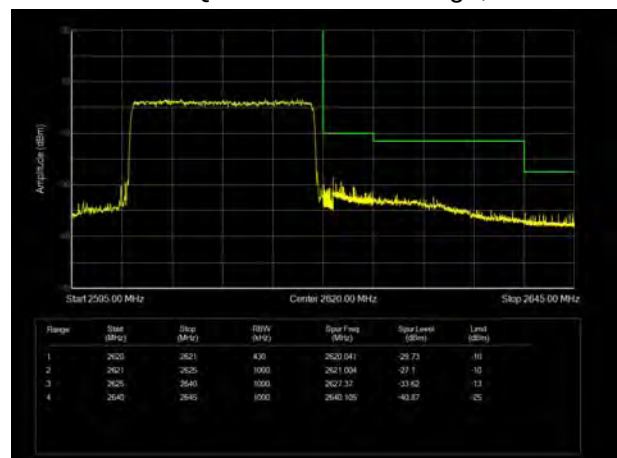
LTE Band 38 QPSK 20MHz CH-High, 1 RB



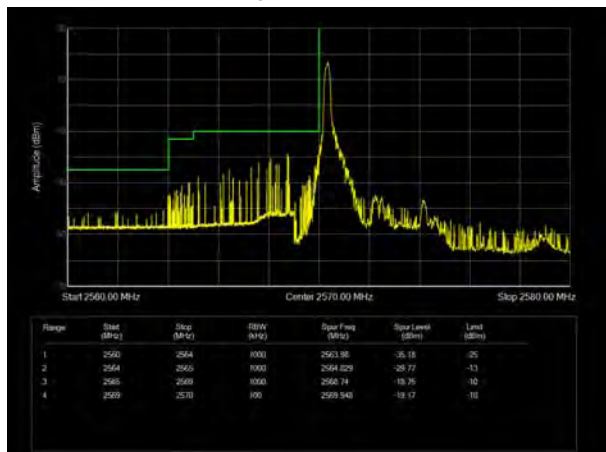
LTE Band 38 QPSK 20MHz CH-Low, 100%RB



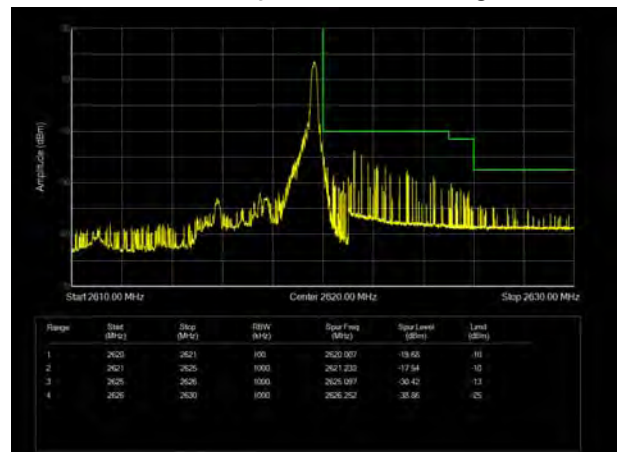
LTE Band 38 QPSK 20MHz CH-High, 100%RB



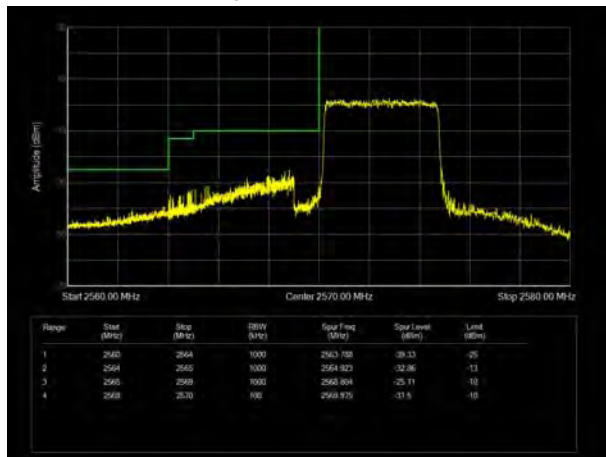
LTE Band 38 16QAM 5MHz CH-Low, 1 RB



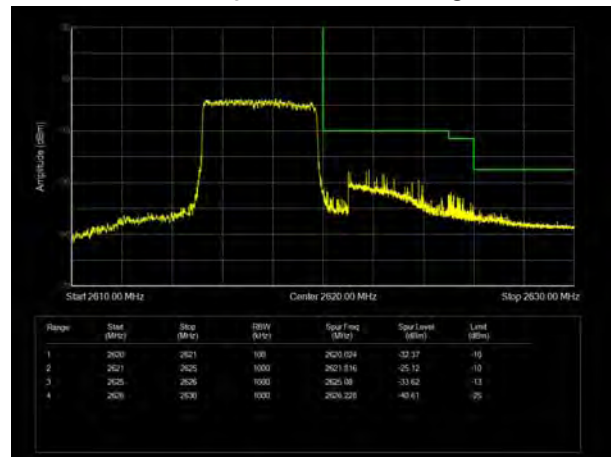
LTE Band 38 16QAM 5MHz CH-High, 1 RB



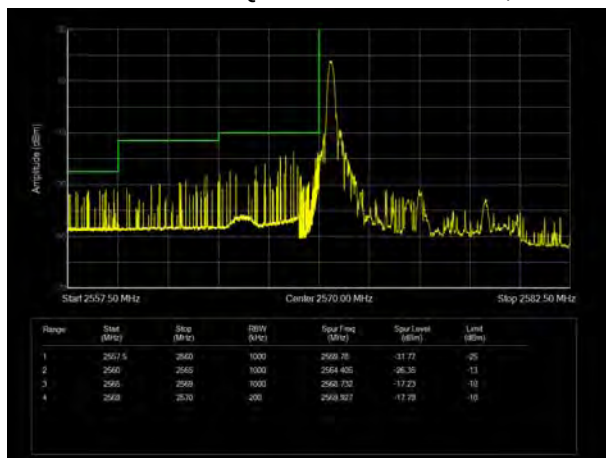
LTE Band 38 16QAM 5MHz CH-Low, 100%RB



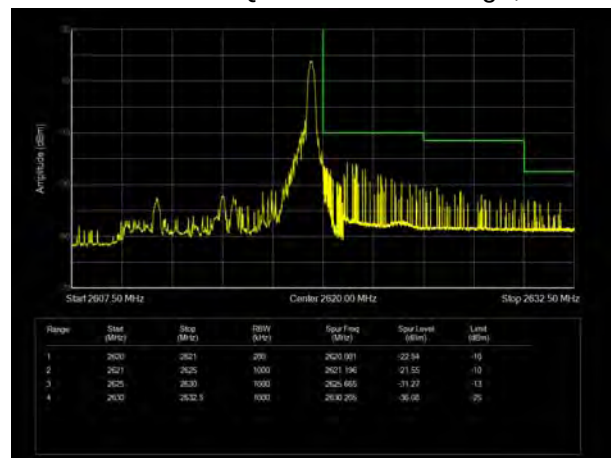
LTE Band 38 16QAM 5MHz CH-High, 100%RB



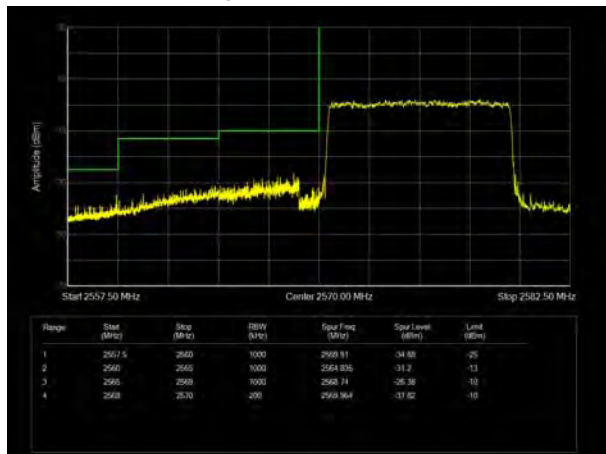
LTE Band 38 16QAM 10MHz CH-Low, 1 RB



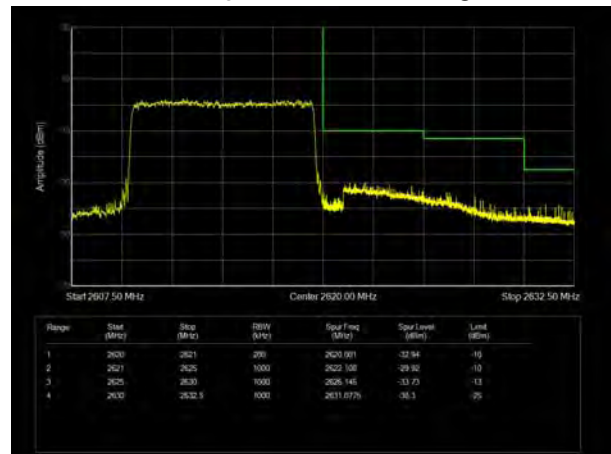
LTE Band 38 16QAM 10MHz CH-High, 1 RB



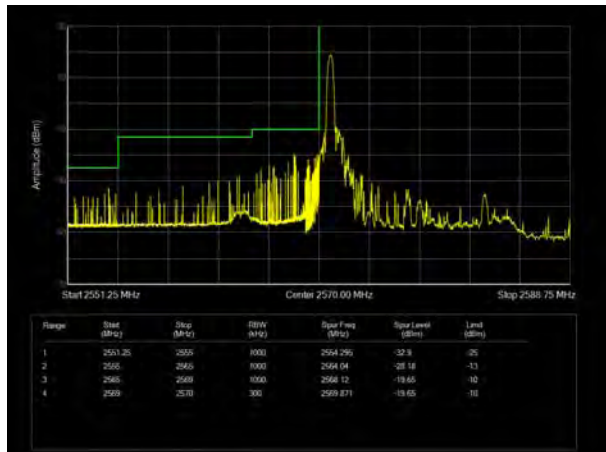
LTE Band 38 16QAM 10MHz CH-Low, 100%RB



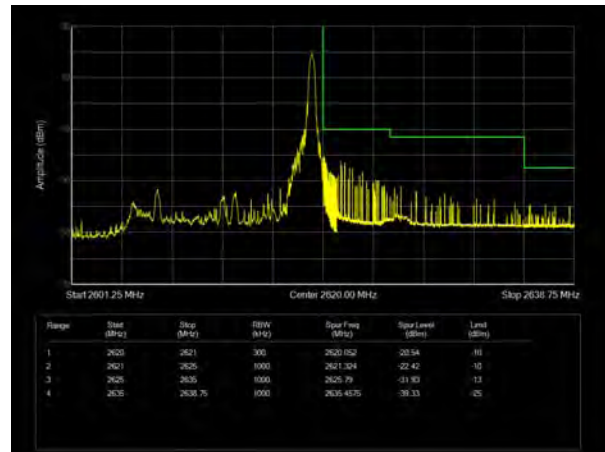
LTE Band 38 16QAM 10MHz CH-High, 100%RB



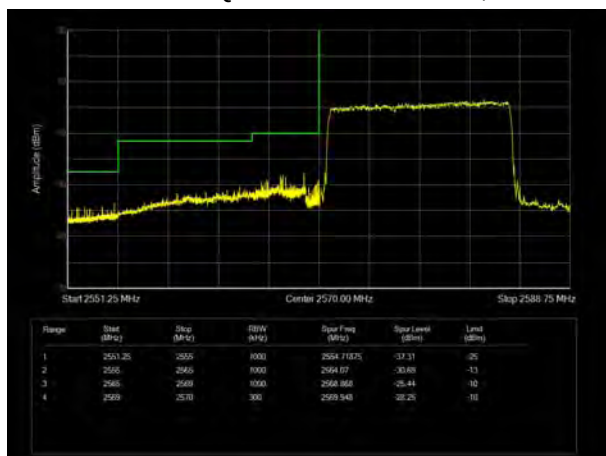
LTE Band 38 16QAM 15MHz CH-Low, 1 RB



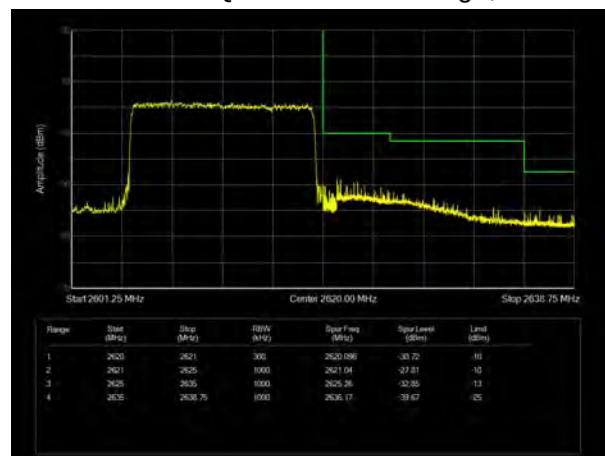
LTE Band 38 16QAM 15MHz CH-High, 1 RB



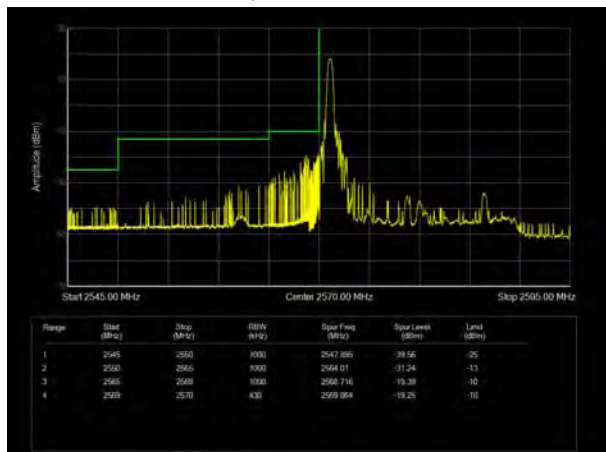
LTE Band 38 16QAM 15MHz CH-Low, 100%RB



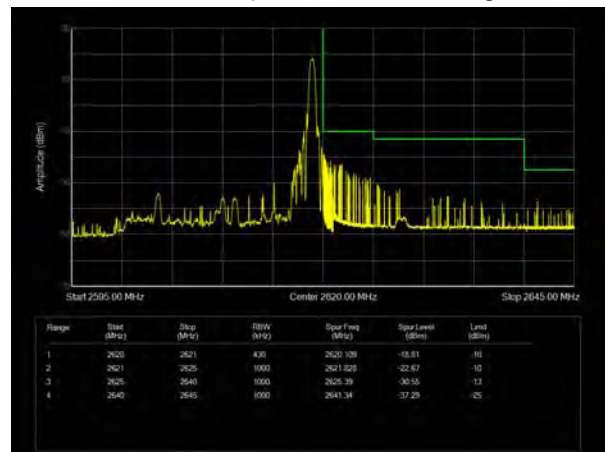
LTE Band 38 16QAM 15MHz CH-High, 100%RB



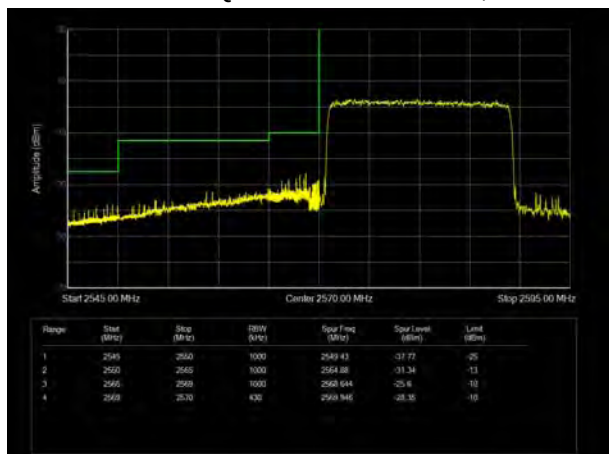
LTE Band 38 16QAM 20MHz CH-Low, 1 RB



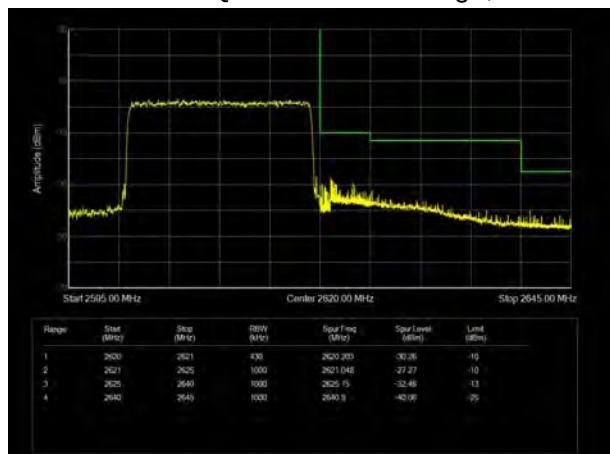
LTE Band 38 16QAM 20MHz CH-High, 1 RB



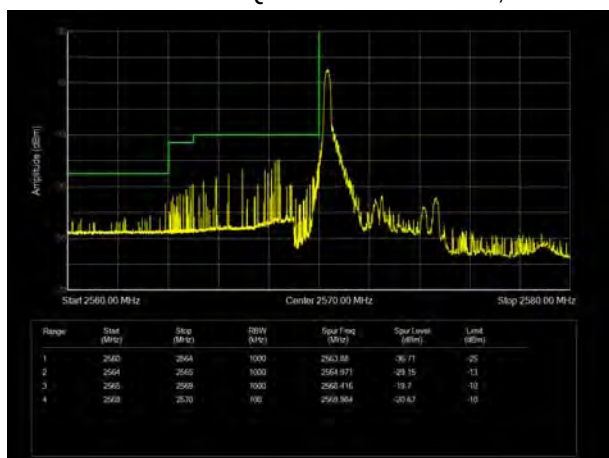
LTE Band 38 16QAM 20MHz CH-Low, 100%RB



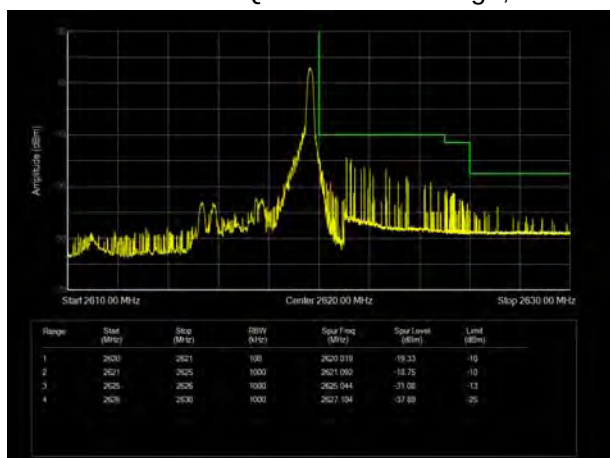
LTE Band 38 16QAM 20MHz CH-High, 100%RB



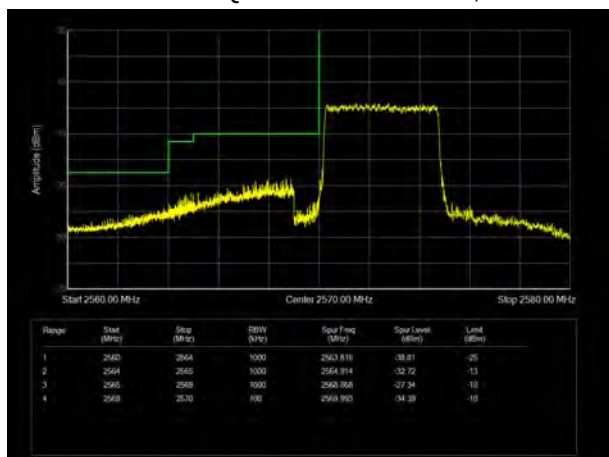
LTE Band 38 64QAM 5MHz CH-Low, 1 RB



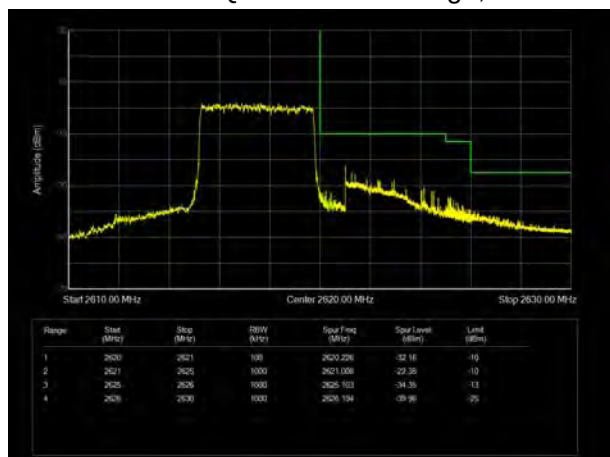
LTE Band 38 64QAM 5MHz CH-High, 1 RB



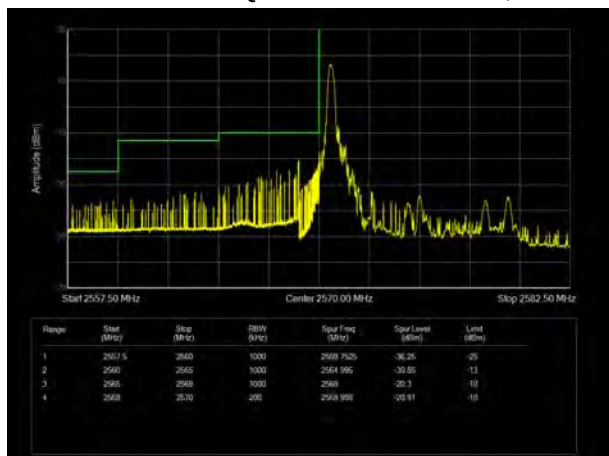
LTE Band 38 64QAM 5MHz CH-Low, 100%RB



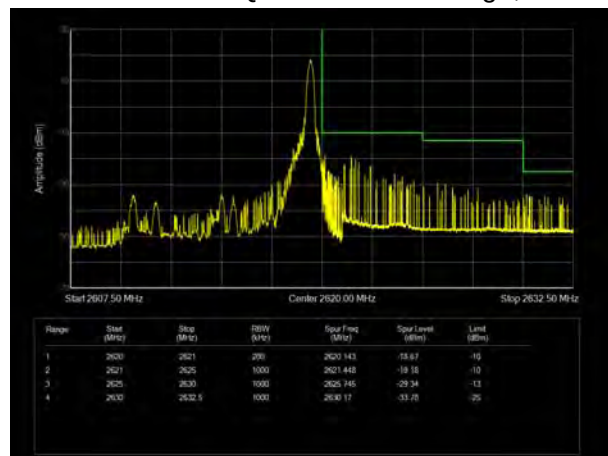
LTE Band 38 64QAM 5MHz CH-High, 100%RB



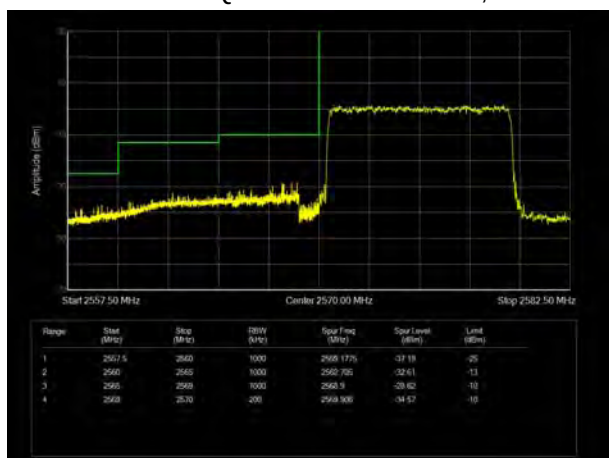
LTE Band 38 64QAM 10MHz CH-Low, 1 RB



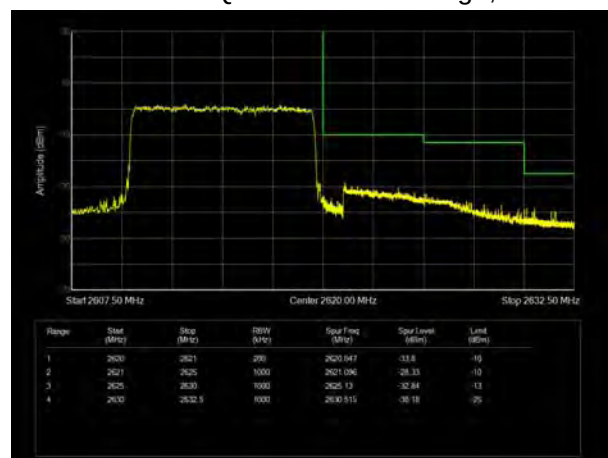
LTE Band 38 64QAM 10MHz CH-High, 1 RB



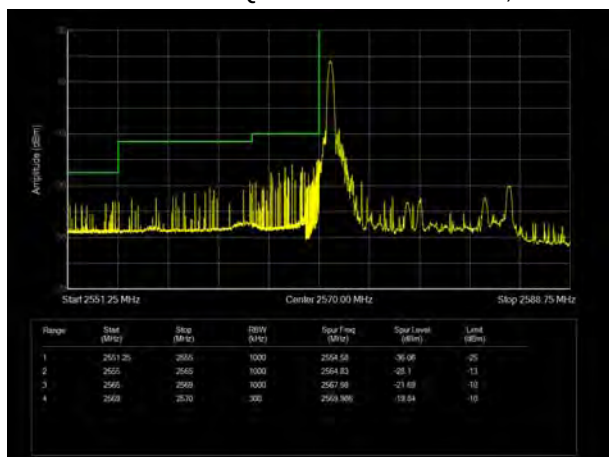
LTE Band 38 64QAM 10MHz CH-Low, 100%RB



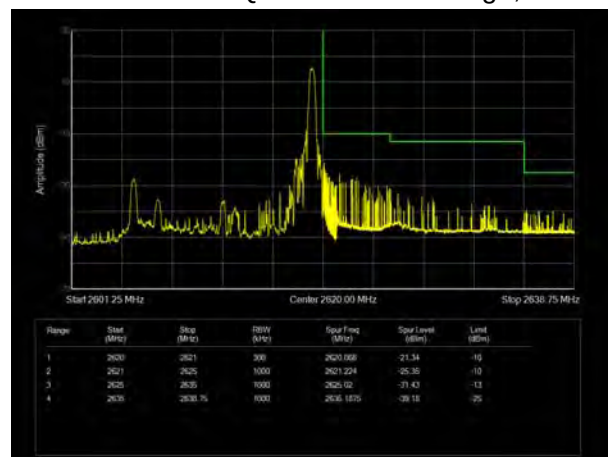
LTE Band 38 64QAM 10MHz CH-High, 100%RB



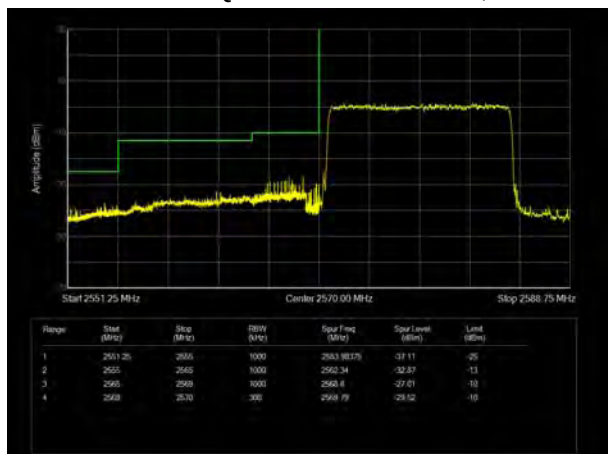
LTE Band 38 64QAM 15MHz CH-Low, 1 RB



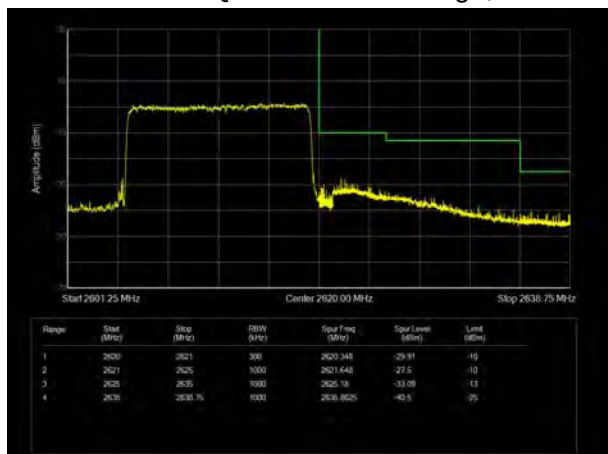
LTE Band 38 64QAM 15MHz CH-High, 1 RB



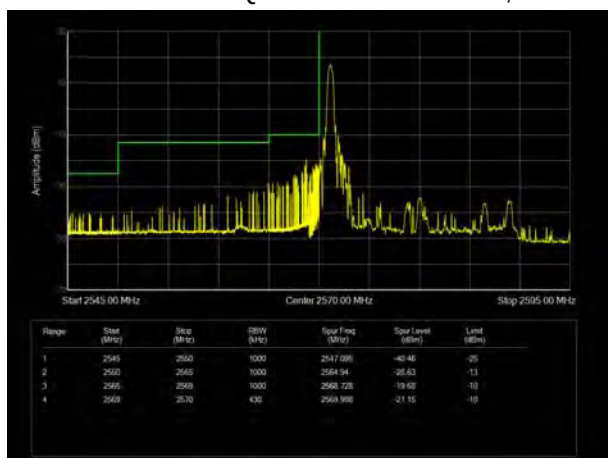
LTE Band 38 64QAM 15MHz CH-Low, 100%RB



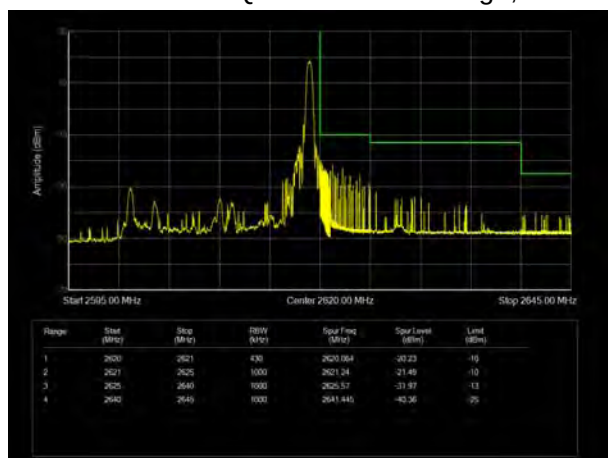
LTE Band 38 64QAM 15MHz CH-High, 100%RB



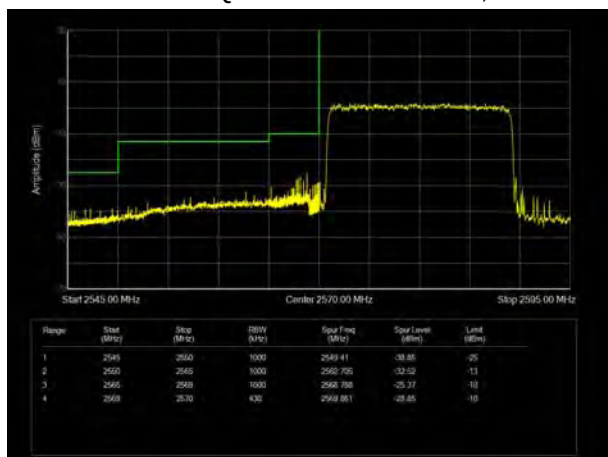
LTE Band 38 64QAM 20MHz CH-Low, 1 RB



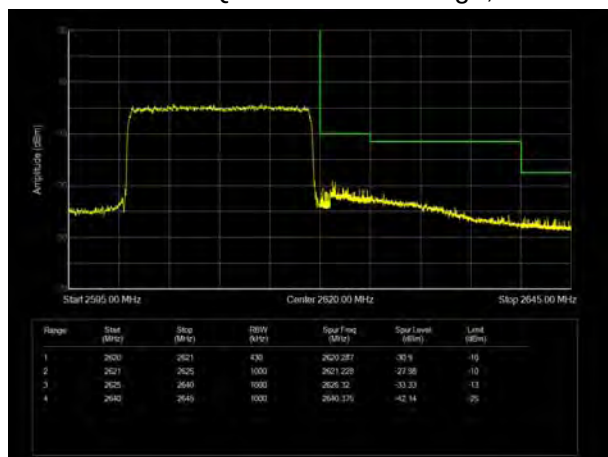
LTE Band 38 64QAM 20MHz CH-High, 1 RB

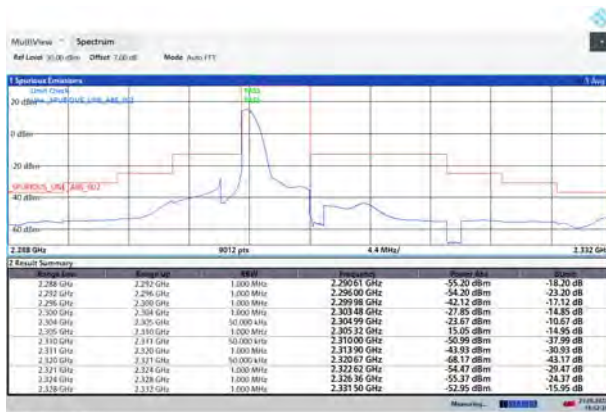


LTE Band 38 64QAM 20MHz CH-Low, 100%RB

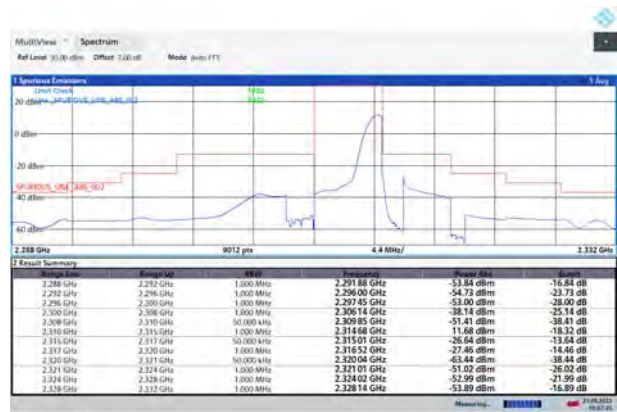


LTE Band 38 64QAM 20MHz CH-High, 100%RB

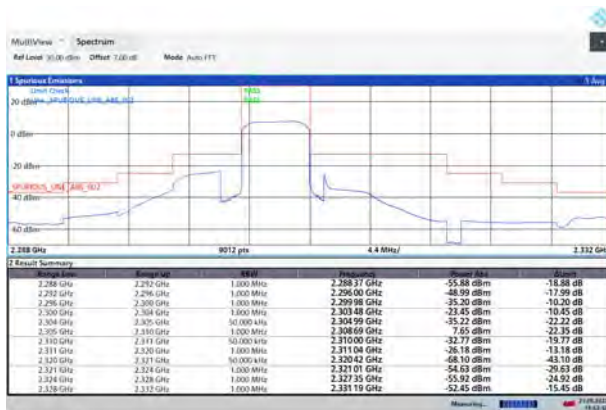


LTE Band 40 Subset 1 QPSK 5MHz CH-Low, 1
RB

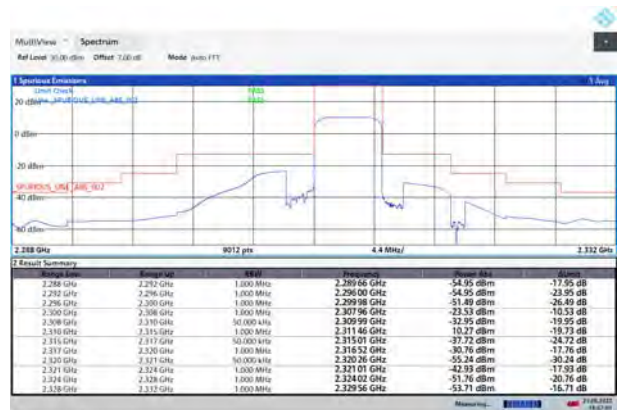
14:52:24 23.04.2022

LTE Band 40 Subset 1 QPSK 5MHz CH-High, 1
RB

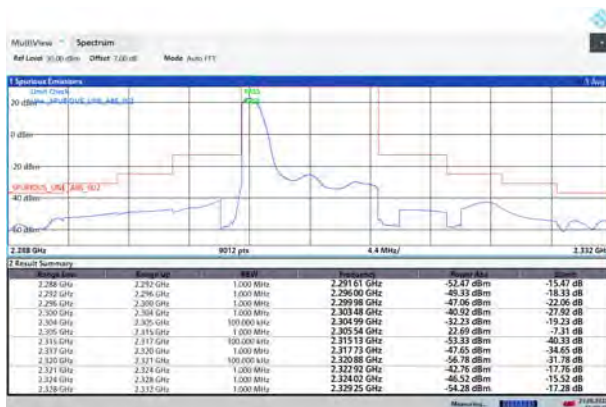
14:57:35 23.04.2022

LTE Band 40 Subset 1 QPSK 5MHz CH-Low,
100%RB

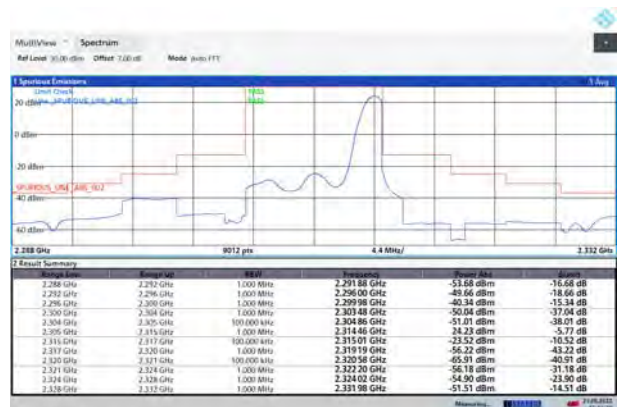
14:52:58 23.04.2022

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100%RB

14:57:01 23.04.2022

LTE Band 40 Subset 1 QPSK 10MHz CH-Low, 1
RB

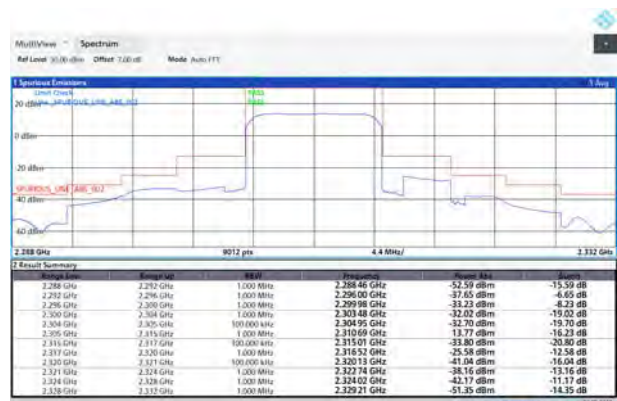
15:15:00 23.04.2022

LTE Band 40 Subset 1 QPSK 10MHz CH-High, 1
RB

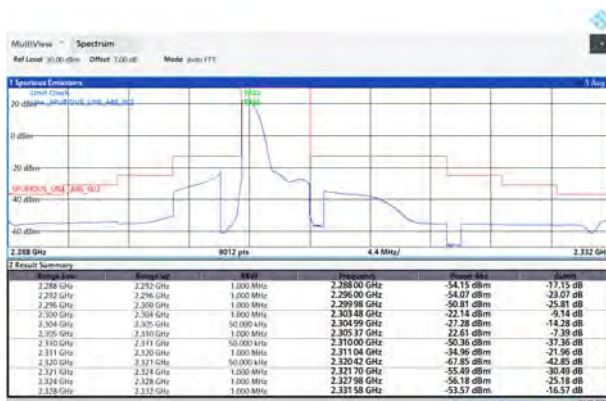
15:15:01 23.04.2022

LTE Band 40 Subset 1 QPSK 10MHz CH-Low,
100%RB

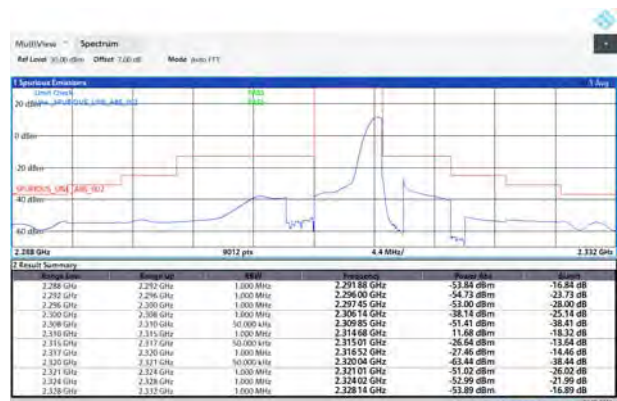
15:13:03 23.04.2022

LTE Band 40 Subset 1 QPSK 10MHz CH-High,
100%RB

15:13:03 23.04.2022

LTE Band 40 Subset 1 16QAM 5MHz CH-Low, 1
RB

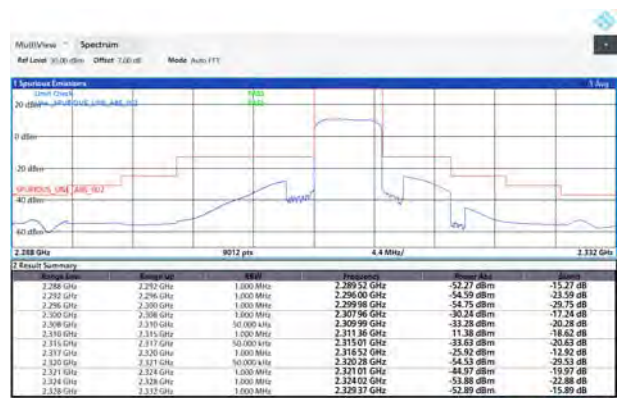
14:05:59 23.04.2022

LTE Band 40 Subset 1 16QAM 5MHz CH-High, 1
RB

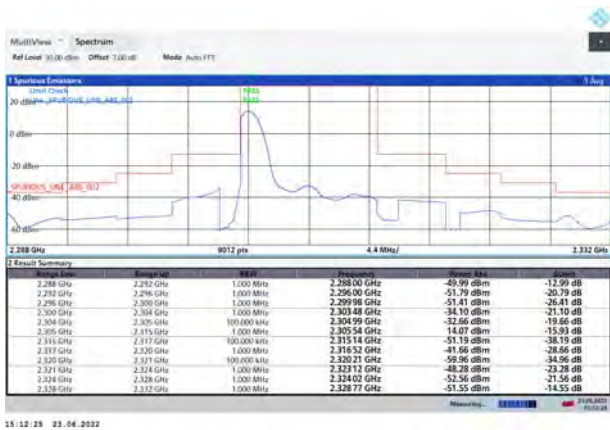
14:05:59 23.04.2022

LTE Band 40 Subset 1 16QAM 5MHz CH-Low,
100%RB

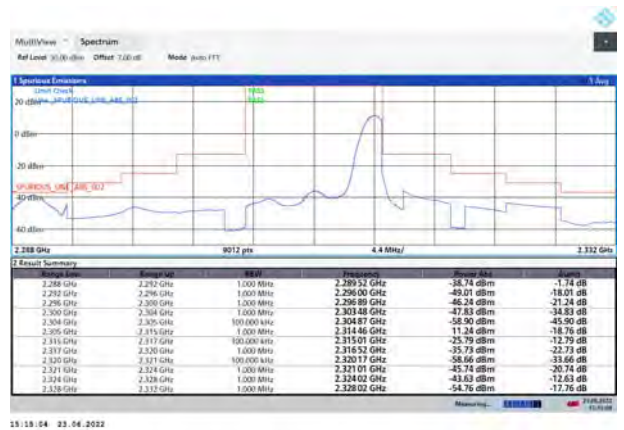
14:05:14 23.04.2022

LTE Band 40 Subset 1 16QAM 5MHz CH-High,
100%RB

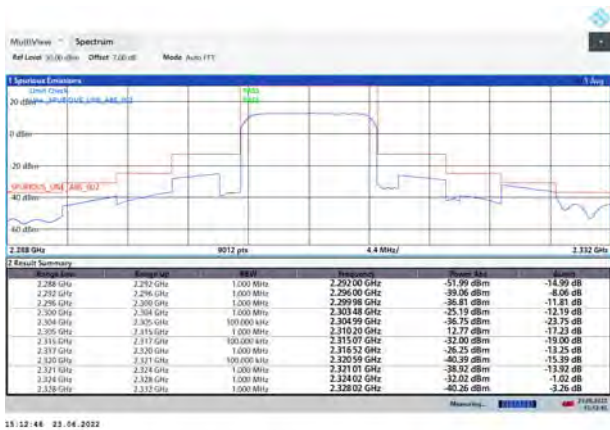
14:04:55 23.04.2022

LTE Band 40 Subset 1 16QAM 10MHz CH-Low,
1 RB

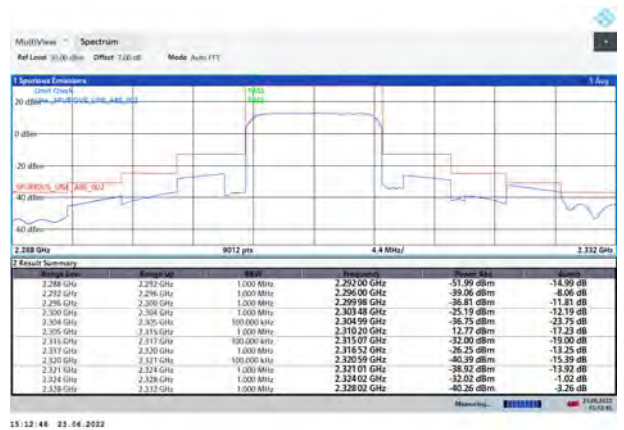
15:12:19 23.04.2022

LTE Band 40 Subset 1 16QAM 10MHz CH-High,
1 RB

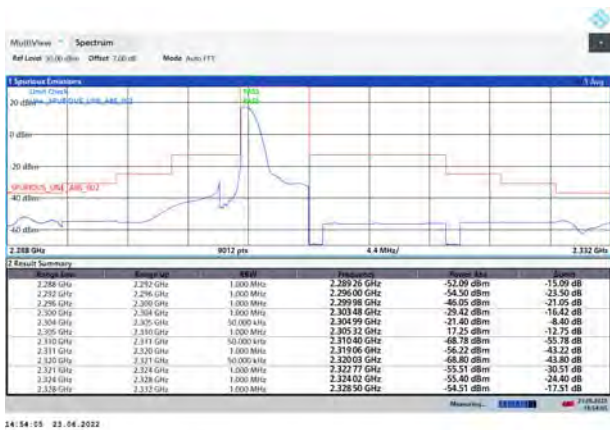
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LTE Band 40 Subset 1 16QAM 10MHz CH-Low,
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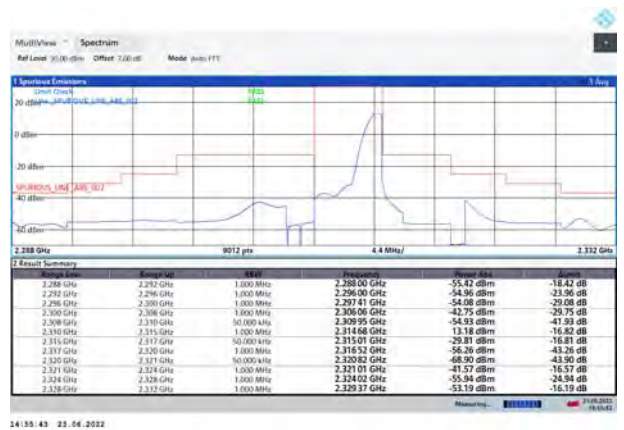
15:12:48 23.04.2022

LTE Band 40 Subset 1 16QAM 10MHz CH-High,
100%RB

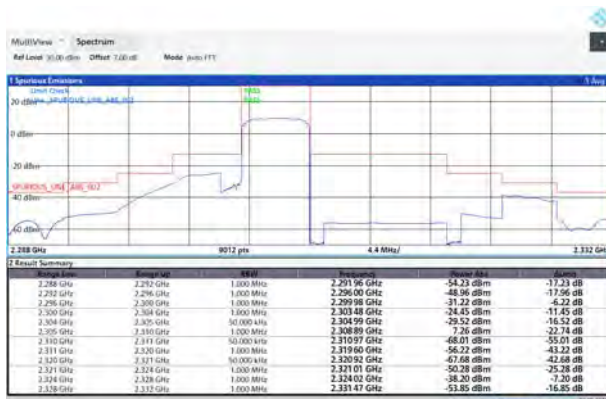
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LTE Band 40 Subset 1 64QAM 5MHz CH-Low, 1
RB

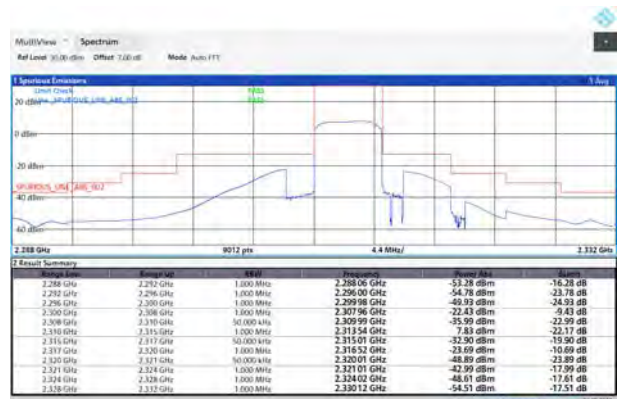
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LTE Band 40 Subset 1 64QAM 5MHz CH-High, 1
RB

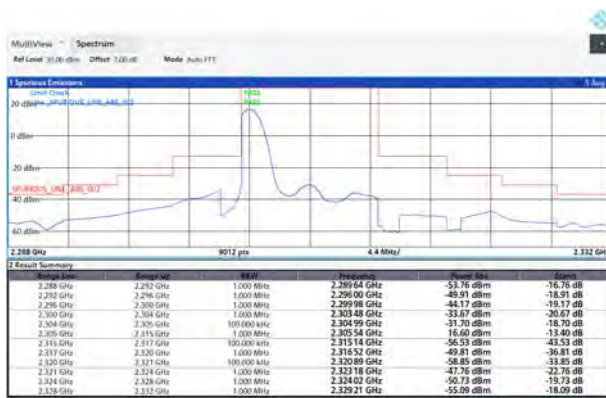
14:55:43 23.04.2022

LTE Band 40 Subset 1 64QAM 5MHz CH-Low,
100%RB

14:53:45 23.04.2022

LTE Band 40 Subset 1 64QAM 5MHz CH-High,
100%RB

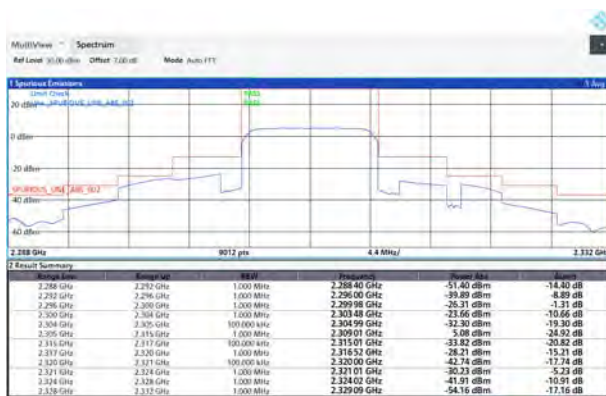
14:54:08 23.04.2022

LTE Band 40 Subset 1 64QAM 10MHz CH-Low,
1 RB

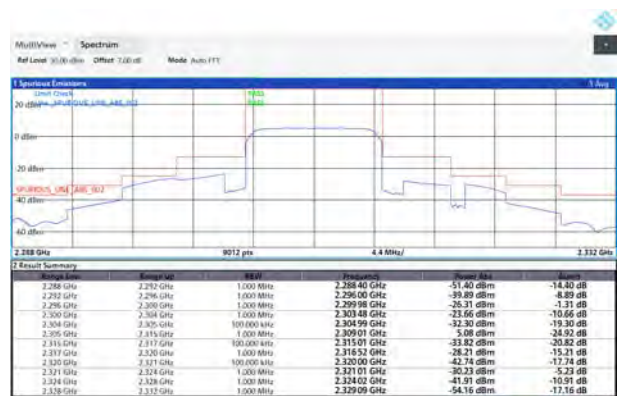
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LTE Band 40 Subset 1 64QAM 10MHz CH-High,
1 RB

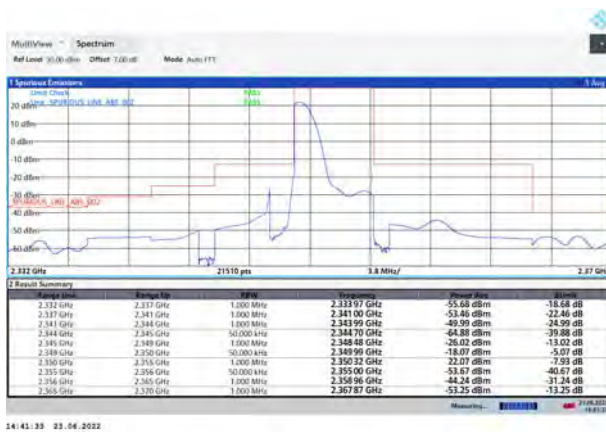
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LTE Band 40 Subset 1 64QAM 10MHz CH-Low,
100%RB

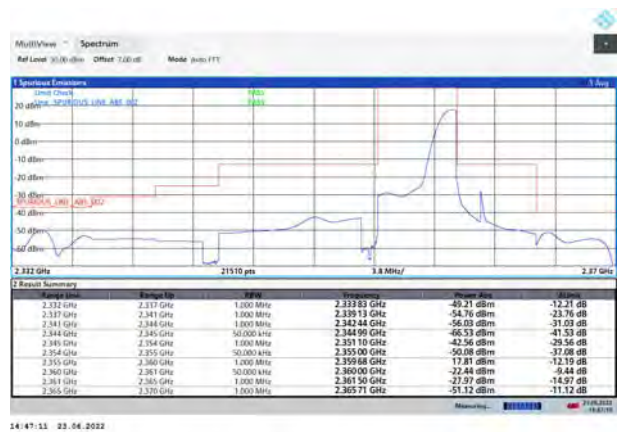
15:15:42 23.04.2022

LTE Band 40 Subset 1 64QAM 10MHz CH-High,
100%RB

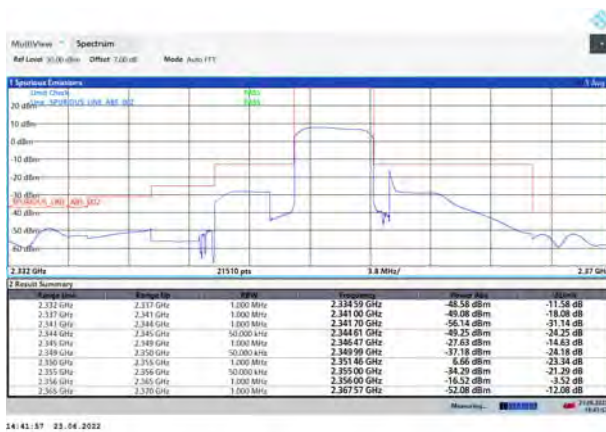
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LTE Band 40 Subset 2 QPSK 5MHz CH-Low, 1
RB

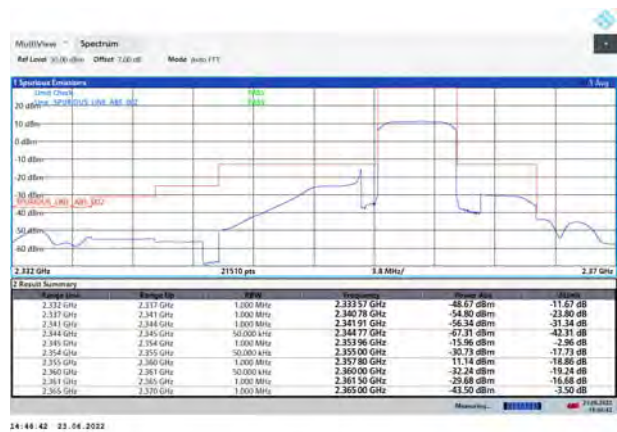
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14:47:15 23.04.2022

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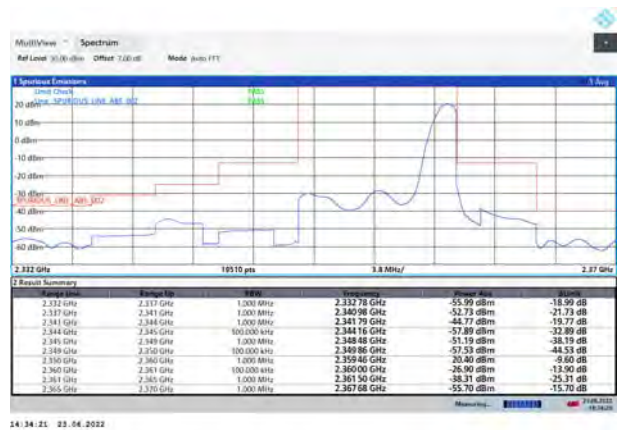
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14:44:42 23.04.2022

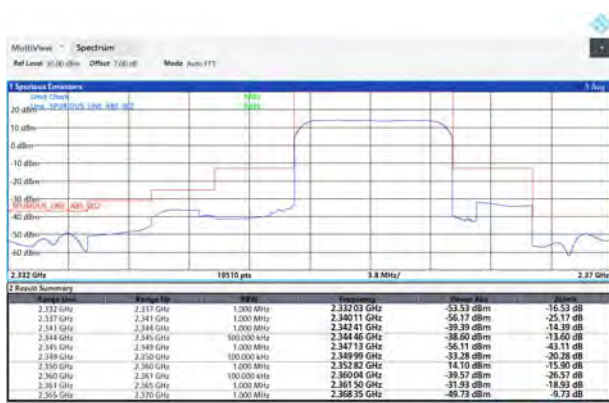
LTE Band 40 Subset 2 QPSK 10MHz CH-Low, 1
RB

14:39:06 23.04.2022

LTE Band 40 Subset 2 QPSK 10MHz CH-High, 1
RB

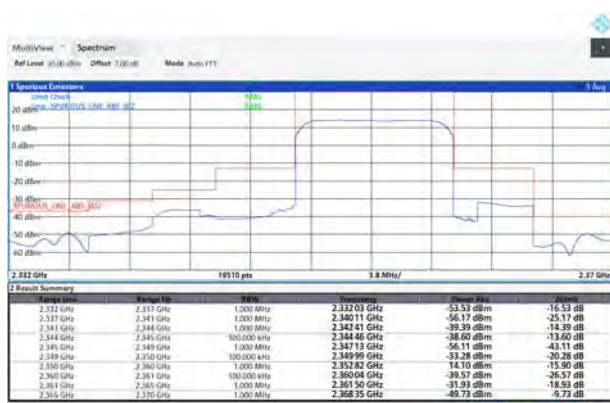
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LTE Band 40 Subset 2 QPSK 10MHz CH-Low,
100%RB



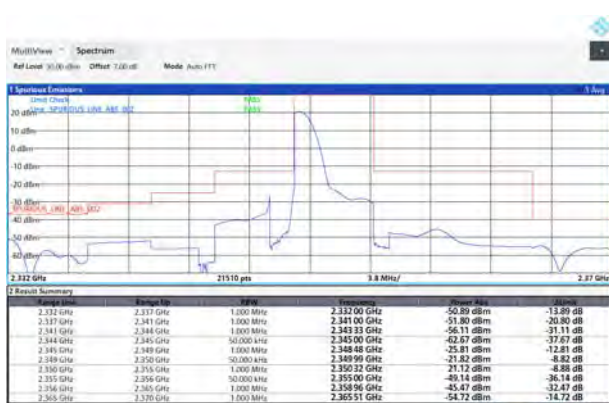
20130152 23.04.2022

LTE Band 40 Subset 2 QPSK 10MHz CH-High,
100%RB



24:38:52 - 28.04.2022

LTE Band 40 Subset 2 16QAM 5MHz CH-Low, 1
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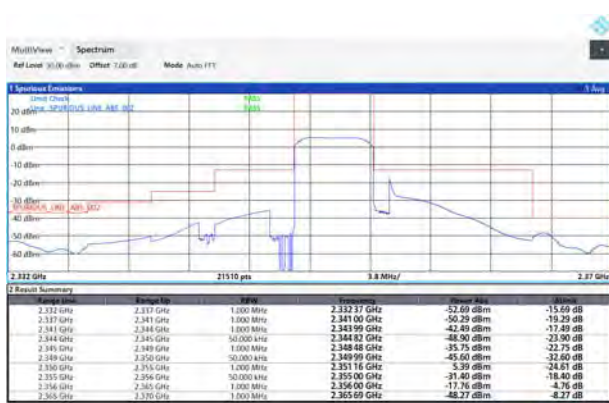


2023.01.29.06.2022

LTE Band 40 Subset 2 16QAM 5MHz CH-High, 1
RB

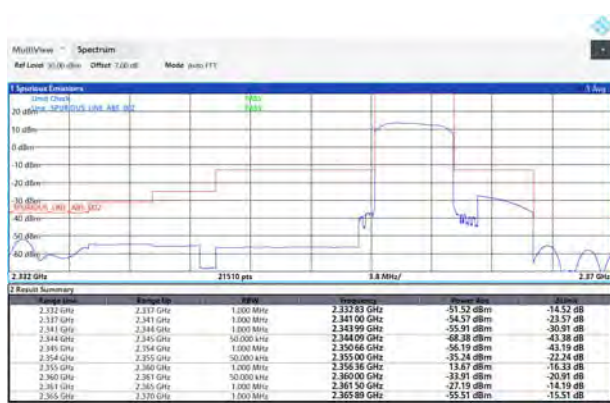
14147132 28.06.2022

LTE Band 40 Subset 2 16QAM 5MHz CH-Low,
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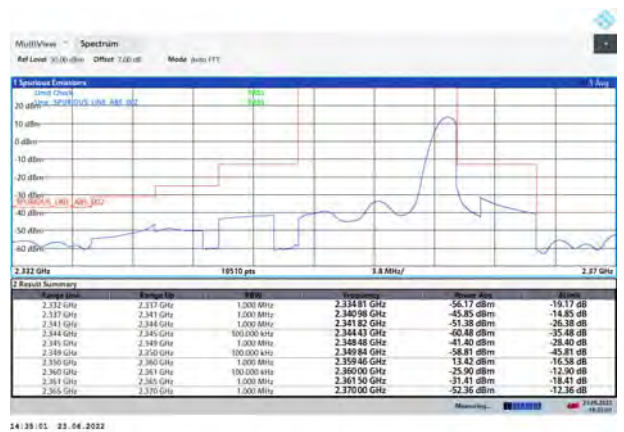
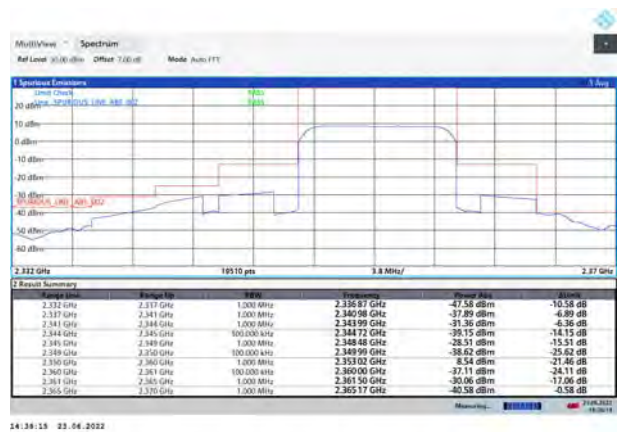
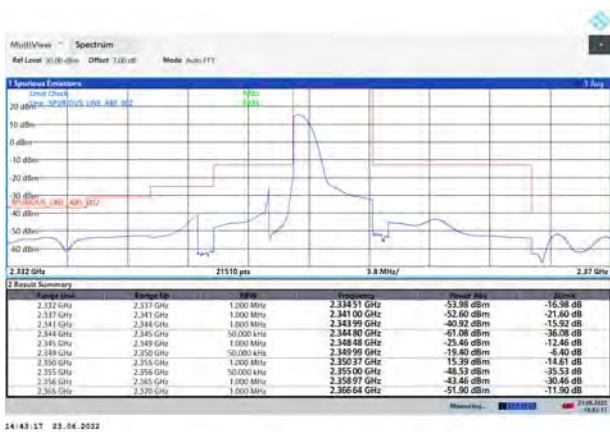
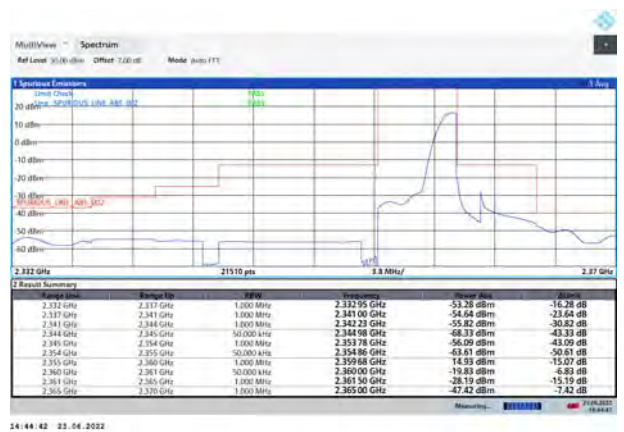


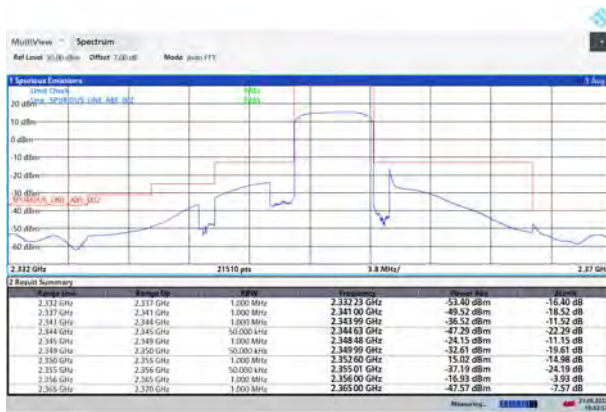
14:42:29 33.04.2022

LTE Band 40 Subset 2 16QAM 5MHz CH-High,
100%RB

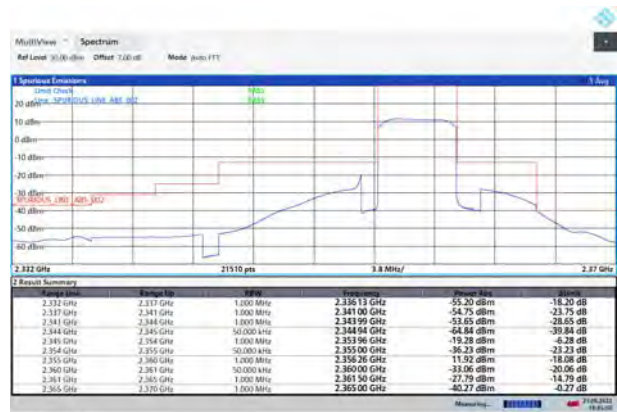


14:48:32 33.04.2022

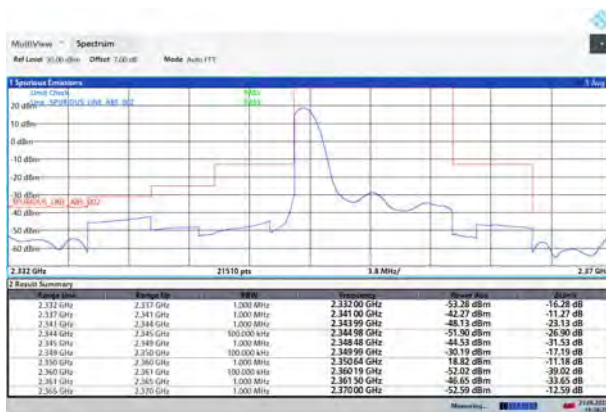
LTE Band 40 Subset 2 16QAM 10MHz CH-Low,
1 RBLTE Band 40 Subset 2 16QAM 10MHz CH-High,
1 RBLTE Band 40 Subset 2 16QAM 10MHz CH-Low,
100%RBLTE Band 40 Subset 2 16QAM 10MHz CH-High,
100%RBLTE Band 40 Subset 2 64QAM 5MHz CH-Low, 1
RBLTE Band 40 Subset 2 64QAM 5MHz CH-High, 1
RB

LTE Band 40 Subset 2 64QAM 5MHz CH-Low,
100%RB

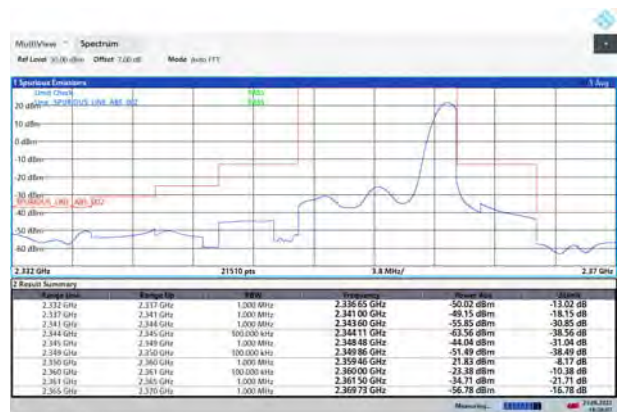
14:42:54 23.04.2022

LTE Band 40 Subset 2 64QAM 5MHz CH-High,
100%RB

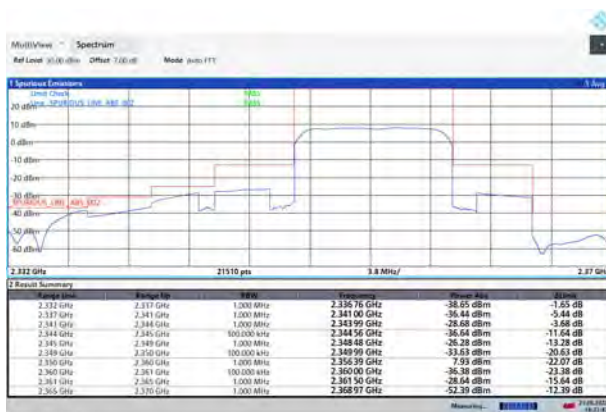
14:43:51 23.04.2022

LTE Band 40 Subset 2 64QAM 10MHz CH-Low,
1 RB

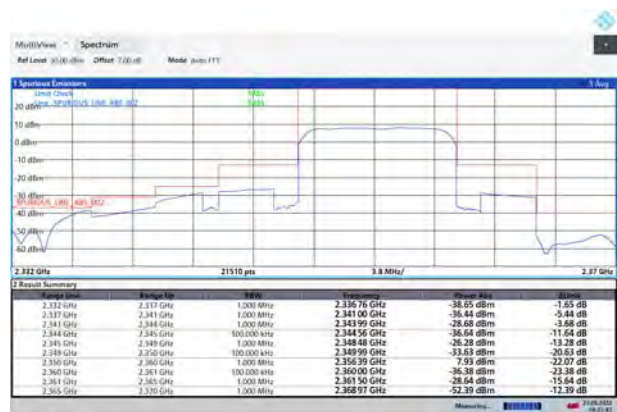
14:39:28 23.04.2022

LTE Band 40 Subset 2 64QAM 10MHz CH-High,
1 RB

14:39:09 23.04.2022

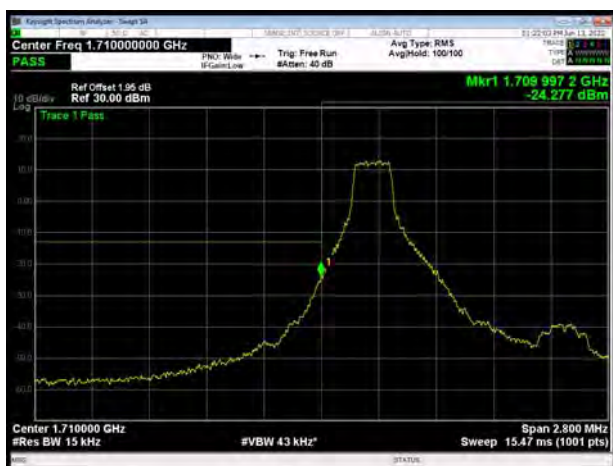
LTE Band 40 Subset 2 64QAM 10MHz CH-Low,
100%RB

14:37:48 23.04.2022

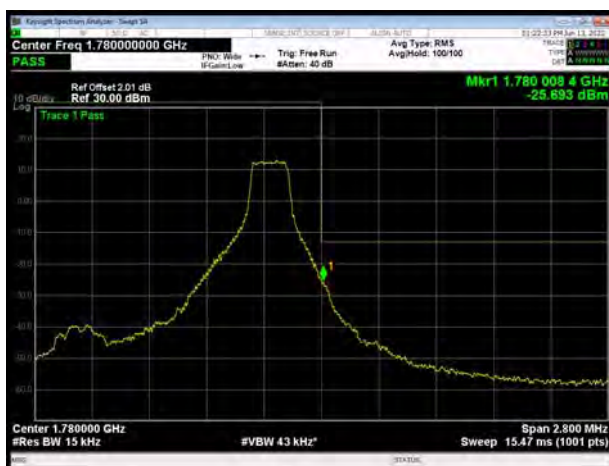
LTE Band 40 Subset 2 64QAM 10MHz CH-High,
100%RB

14:37:48 23.04.2022

LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 66 QPSK 1.4MHz CH-High, 1 RB



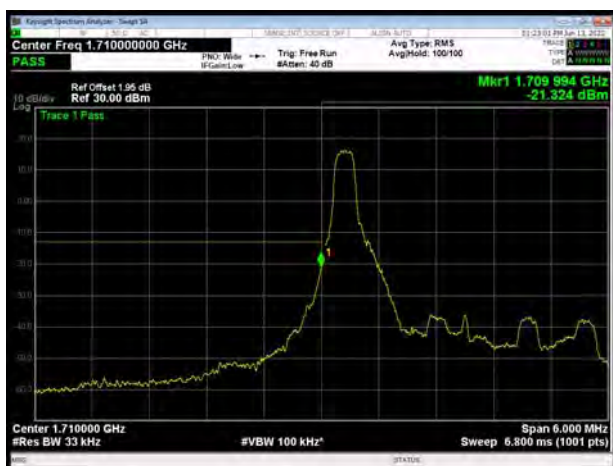
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



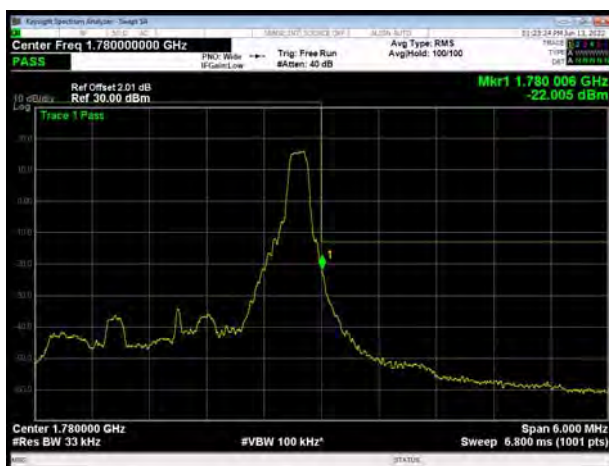
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



LTE Band 66 QPSK 3MHz CH-Low, 1 RB



LTE Band 66 QPSK 3MHz CH-High, 1 RB



LTE Band 66 QPSK 3MHz CH-Low, 100%RB



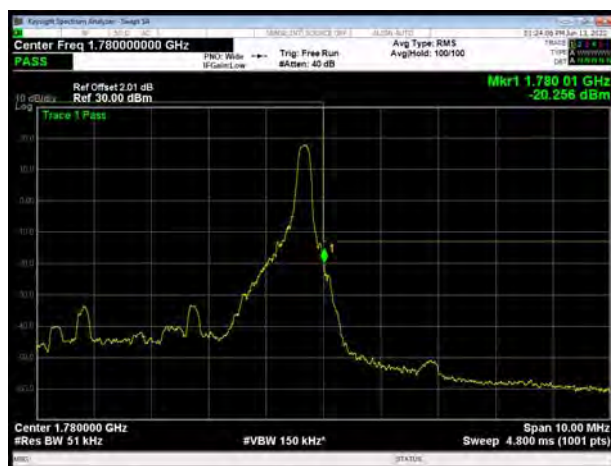
LTE Band 66 QPSK 3MHz CH-High, 100%RB



LTE Band 66 QPSK 5MHz CH-Low, 1 RB



LTE Band 66 QPSK 5MHz CH-High, 1 RB



LTE Band 66 QPSK 5MHz CH-Low, 100%RB

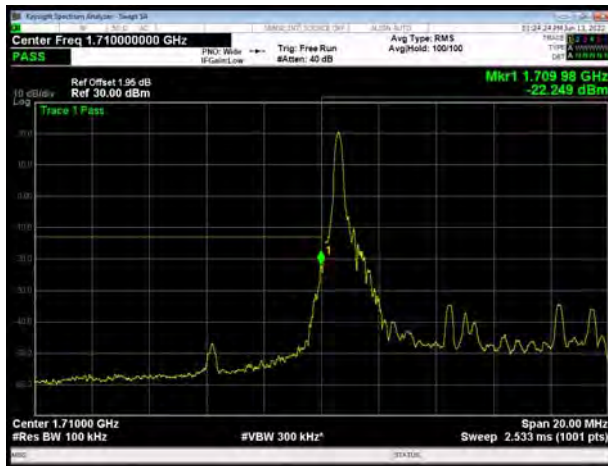


LTE Band 66 QPSK 5MHz CH-High, 100%RB

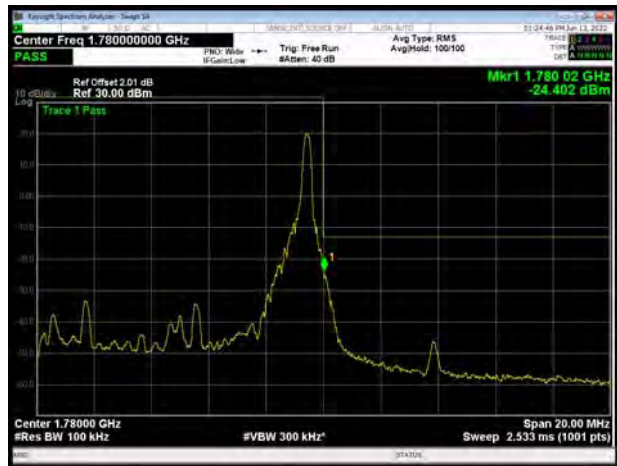




LTE Band 66 QPSK 10MHz CH-Low, 1 RB



LTE Band 66 QPSK 10MHz CH-High, 1 RB



LTE Band 66 QPSK 10MHz CH-Low, 100%RB



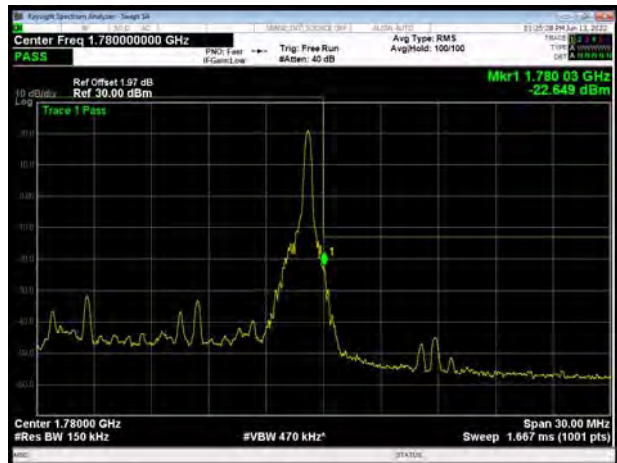
LTE Band 66 QPSK 10MHz CH-High, 100%RB



LTE Band 66 QPSK 15MHz CH-Low, 1 RB

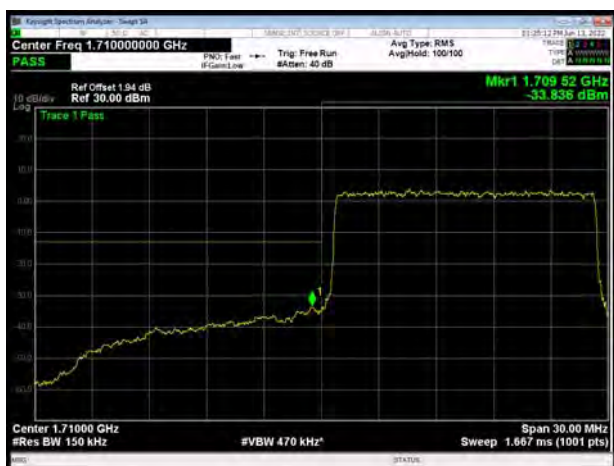


LTE Band 66 QPSK 15MHz CH-High, 1 RB





LTE Band 66 QPSK 15MHz CH-Low, 100%RB



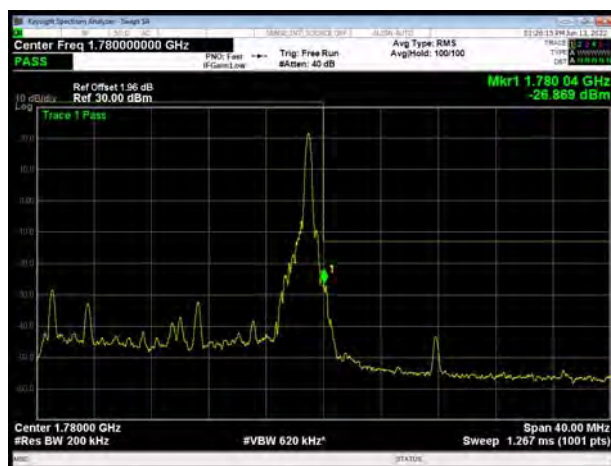
LTE Band 66 QPSK 15MHz CH-High, 100%RB



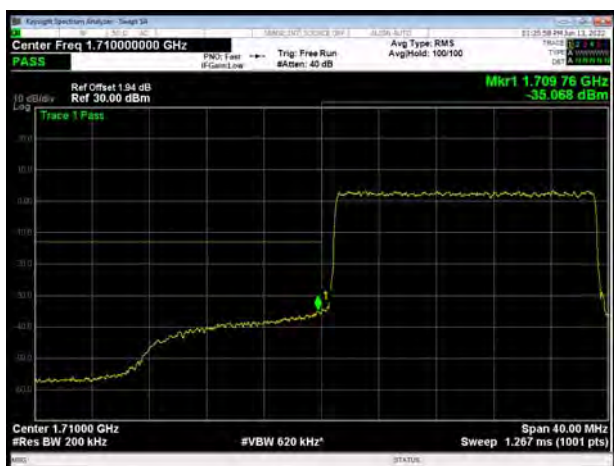
LTE Band 66 QPSK 20MHz CH-Low, 1 RB



LTE Band 66 QPSK 20MHz CH-High, 1 RB



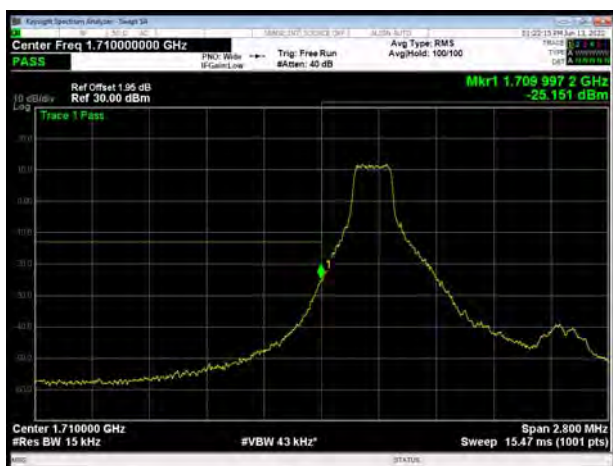
LTE Band 66 QPSK 20MHz CH-Low, 100%RB



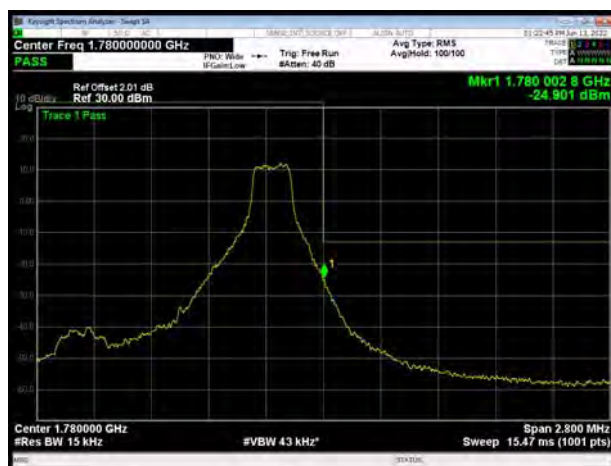
LTE Band 66 QPSK 20MHz CH-High, 100%RB



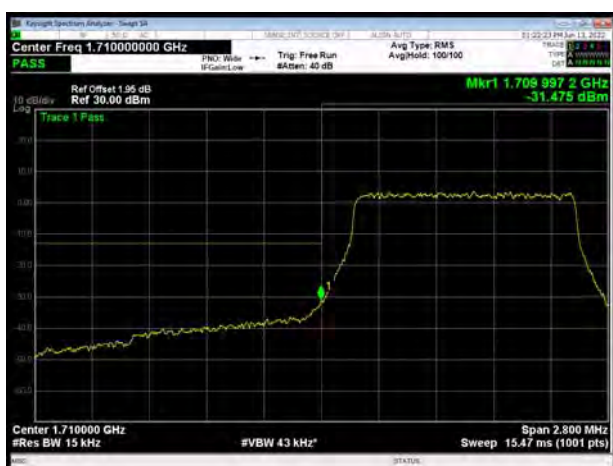
LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



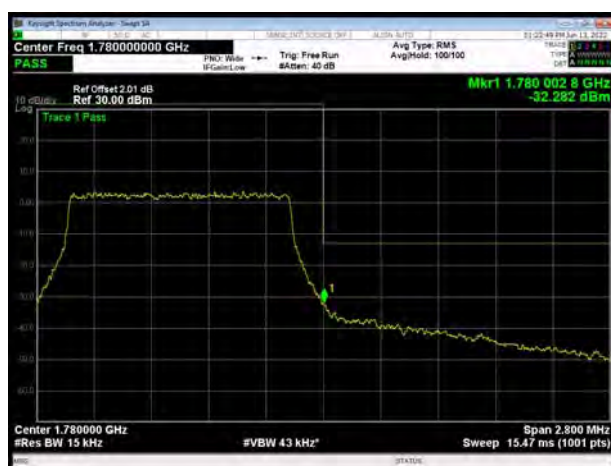
LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



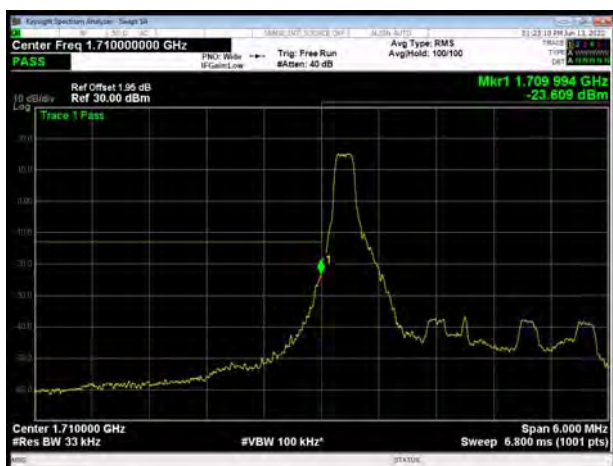
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



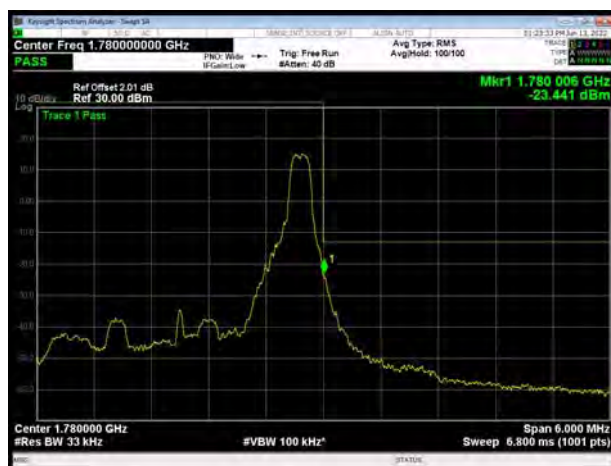
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



LTE Band 66 16QAM 3MHz CH-Low, 1 RB

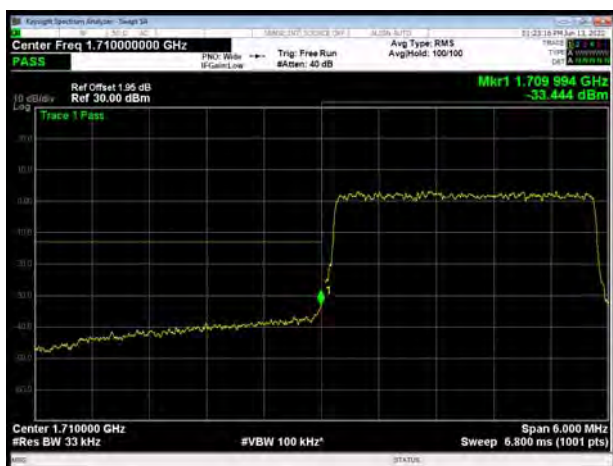


LTE Band 66 16QAM 3MHz CH-High, 1 RB





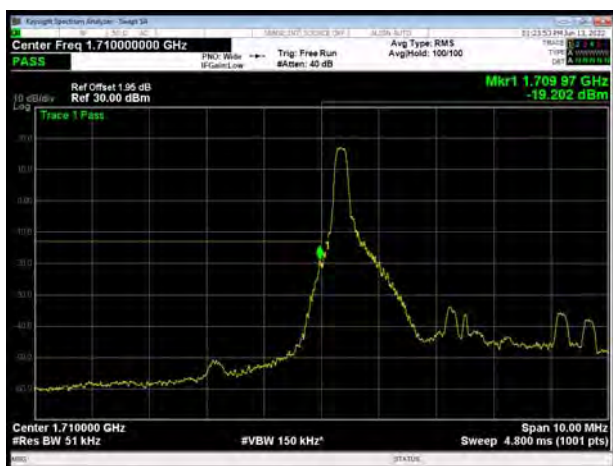
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



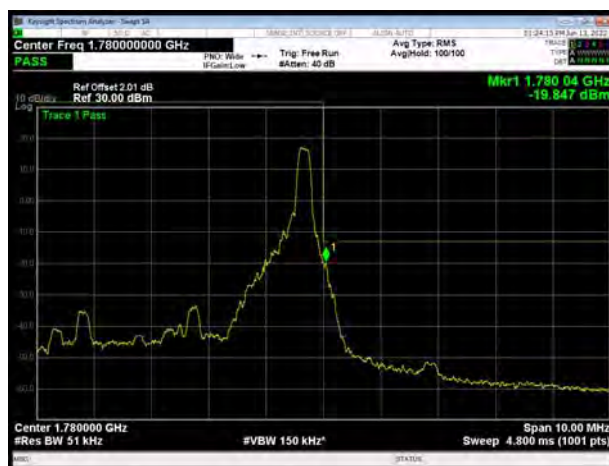
LTE Band 66 16QAM 3MHz CH-High, 100%RB



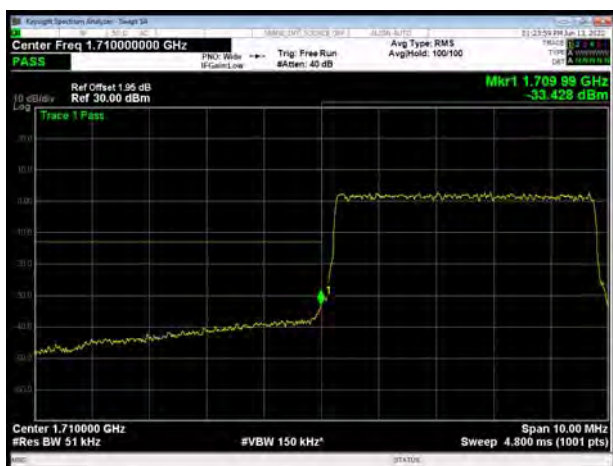
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



LTE Band 66 16QAM 5MHz CH-High, 1 RB



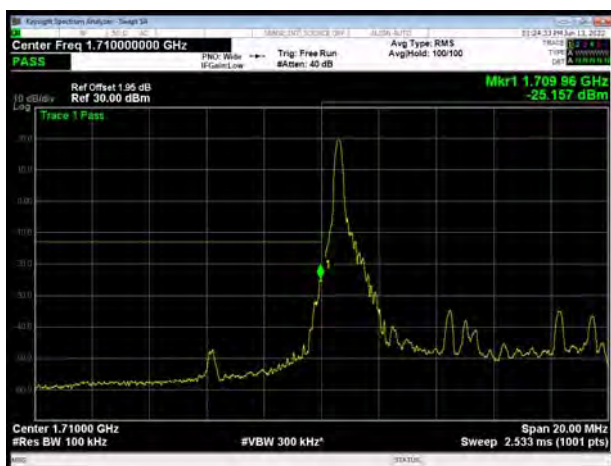
LTE Band 66 16QAM 5MHz CH-Low, 100%RB



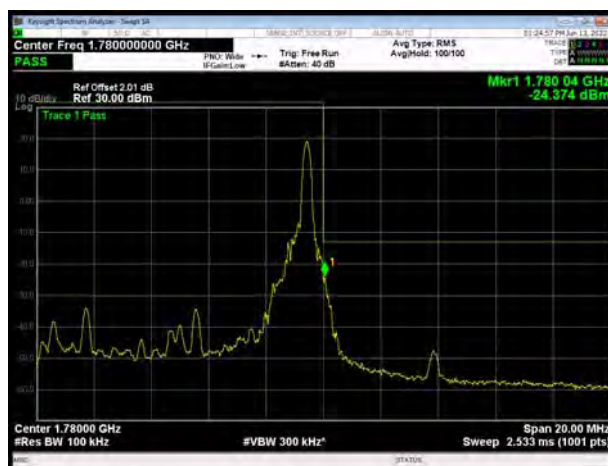
LTE Band 66 16QAM 5MHz CH-High, 100%RB



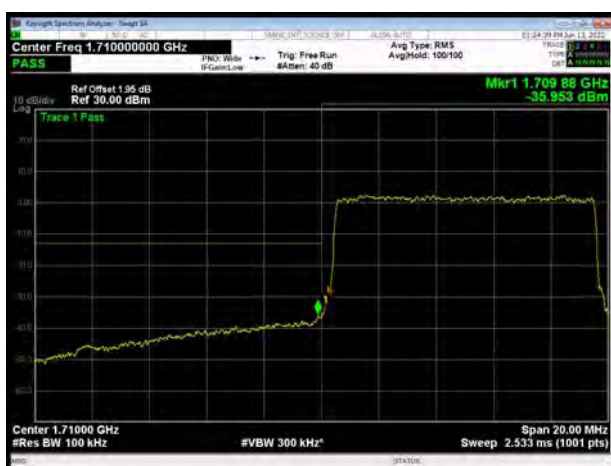
LTE Band 66 16QAM 10MHz CH-Low, 1 RB



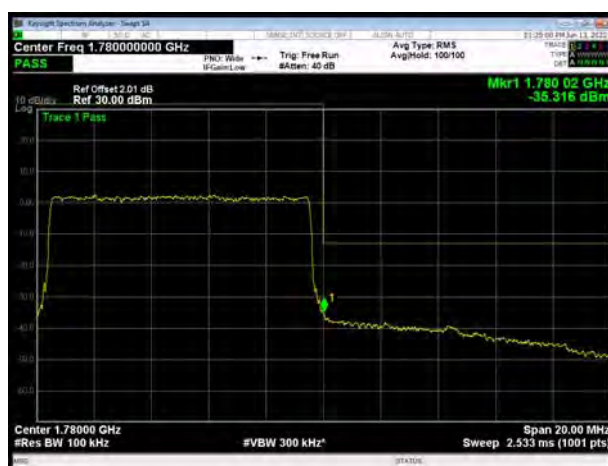
LTE Band 66 16QAM 10MHz CH-High, 1 RB



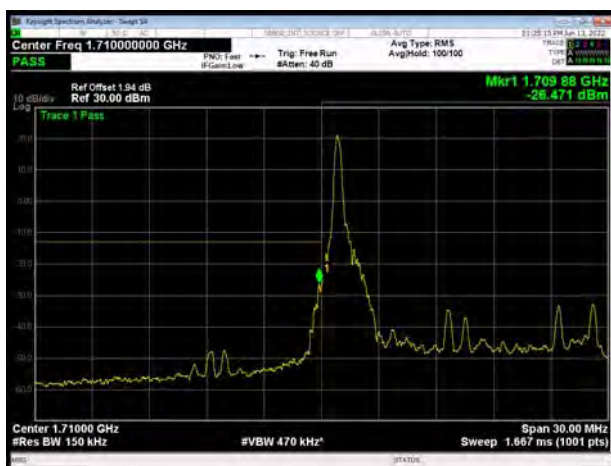
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



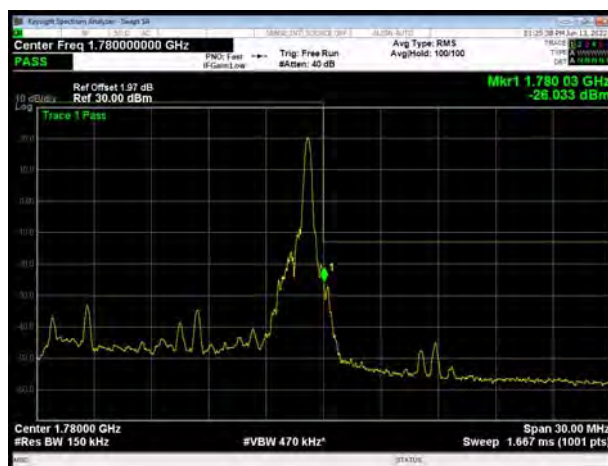
LTE Band 66 16QAM 10MHz CH-High, 100%RB



LTE Band 66 16QAM 15MHz CH-Low, 1 RB

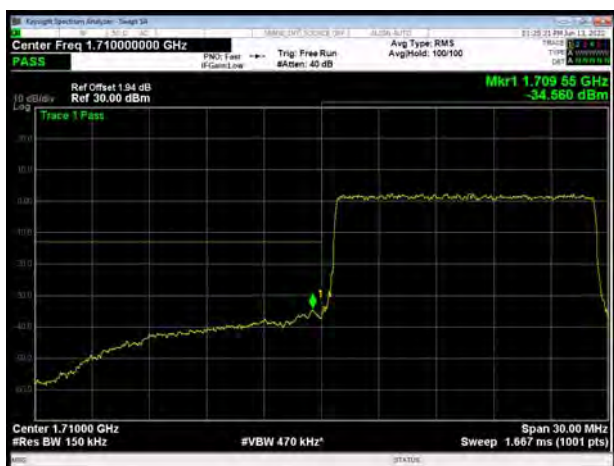


LTE Band 66 16QAM 15MHz CH-High, 1 RB





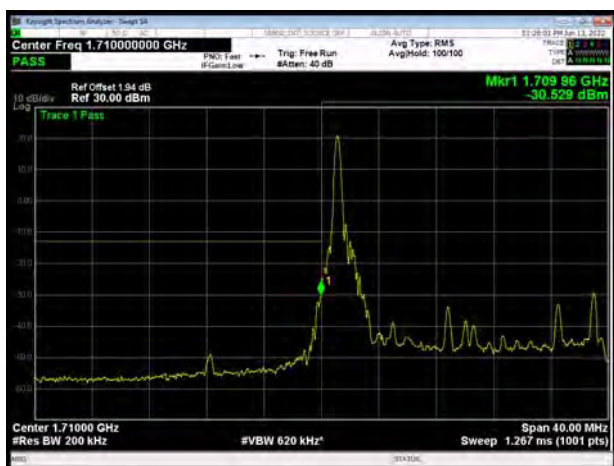
LTE Band 66 16QAM 15MHz CH-Low, 100%RB



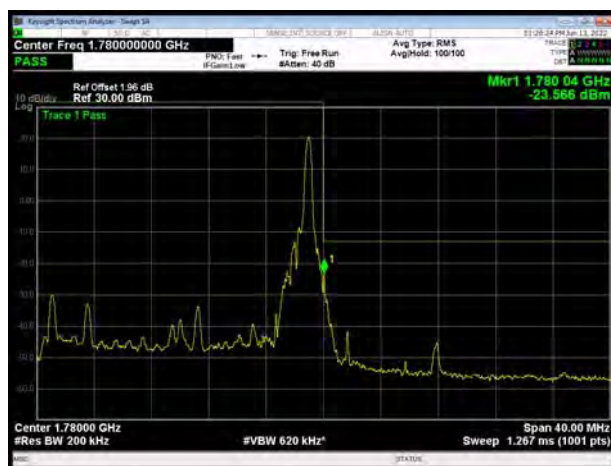
LTE Band 66 16QAM 15MHz CH-High, 100%RB



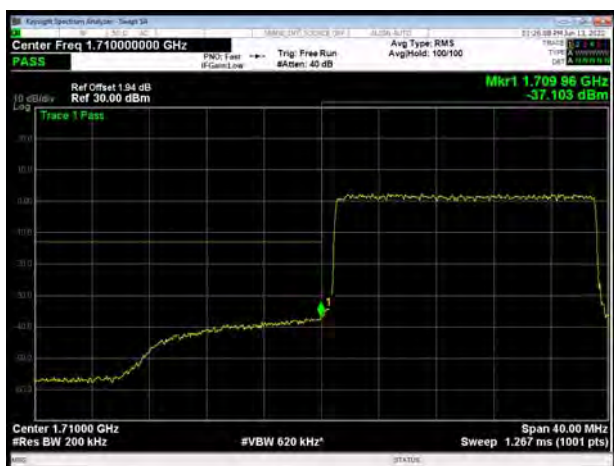
LTE Band 66 16QAM 20MHz CH-Low, 1 RB



LTE Band 66 16QAM 20MHz CH-High, 1 RB



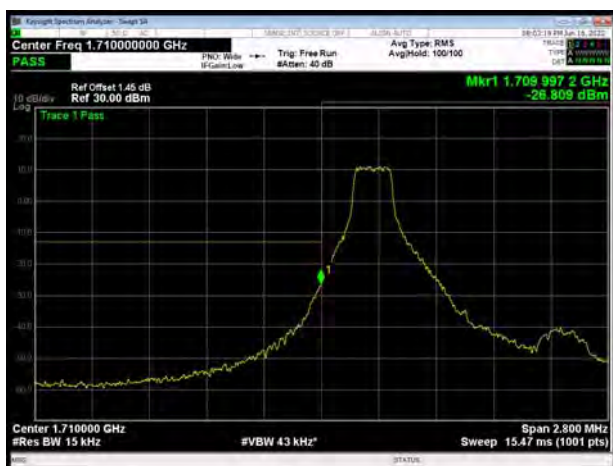
LTE Band 66 16QAM 20MHz CH-Low, 100%RB



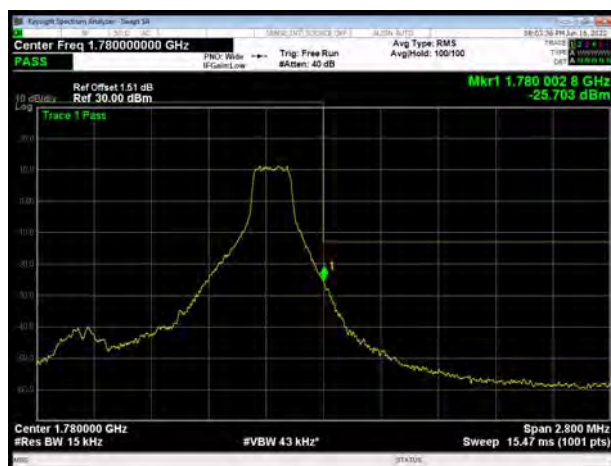
LTE Band 66 16QAM 20MHz CH-High, 100%RB



LTE Band 66 64QAM 1.4MHz CH-Low, 1 RB



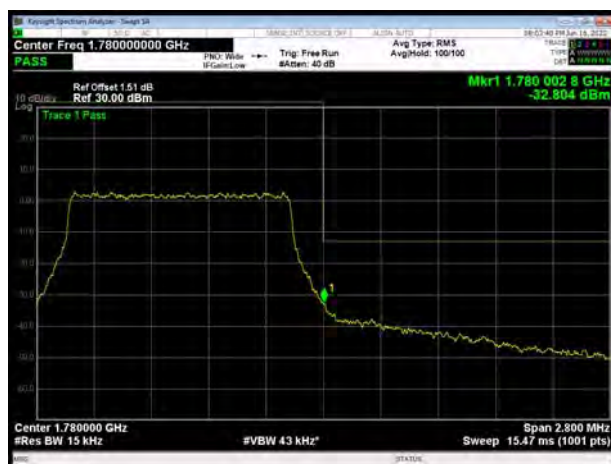
LTE Band 66 64QAM 1.4MHz CH-High, 1 RB



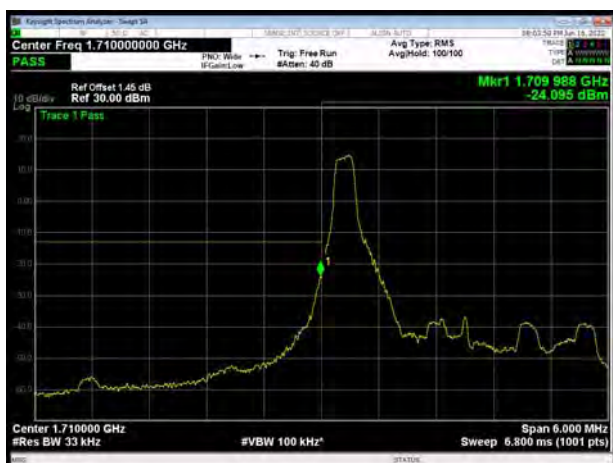
LTE Band 66 64QAM 1.4MHz CH-Low, 100%RB



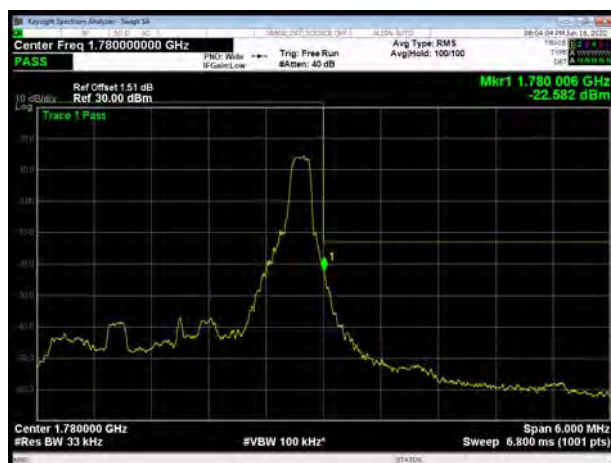
LTE Band 66 64QAM 1.4MHz CH-High, 100%RB



LTE Band 66 64QAM 3MHz CH-Low, 1 RB

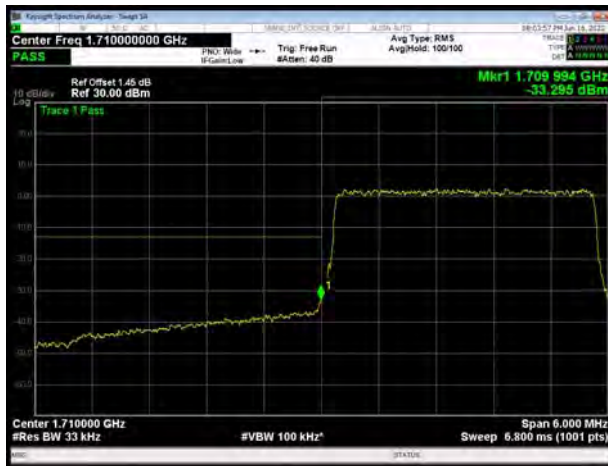


LTE Band 66 64QAM 3MHz CH-High, 1 RB

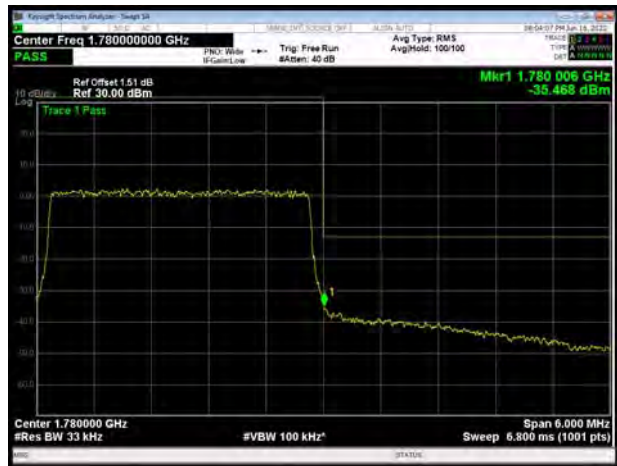




LTE Band 66 64QAM 3MHz CH-Low, 100%RB



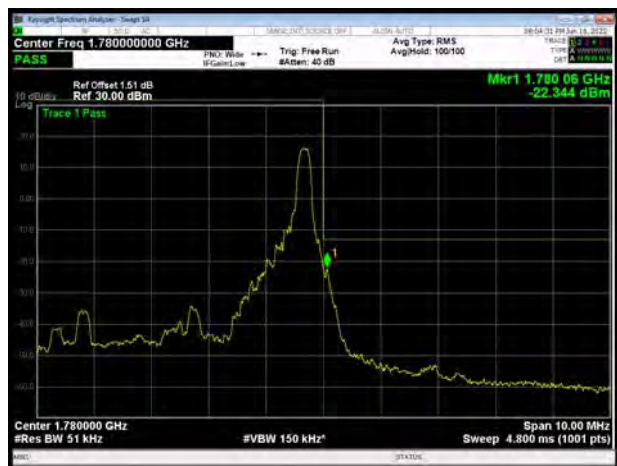
LTE Band 66 64QAM 3MHz CH-High, 100%RB



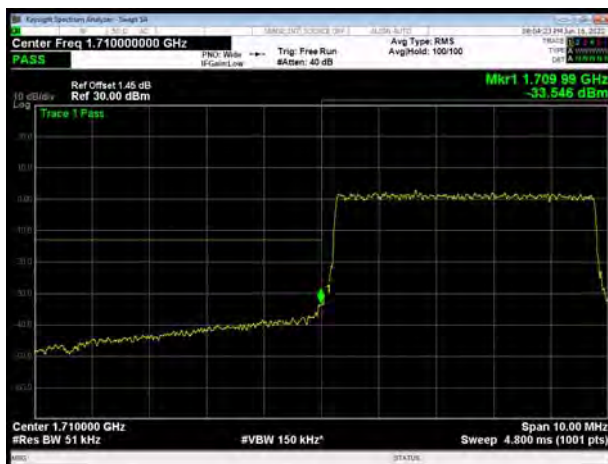
LTE Band 66 64QAM 5MHz CH-Low, 1 RB



LTE Band 66 64QAM 5MHz CH-High, 1 RB



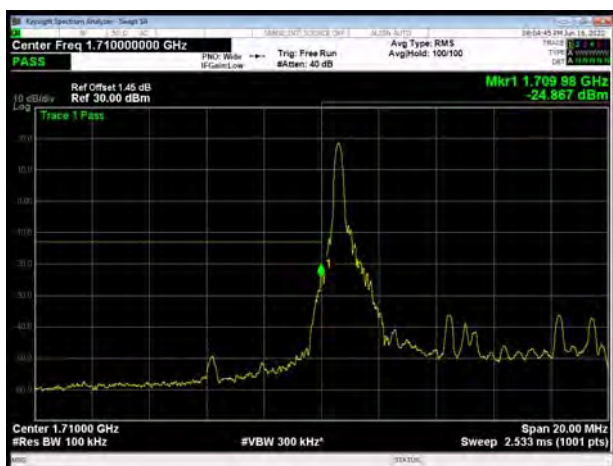
LTE Band 66 64QAM 5MHz CH-Low, 100%RB



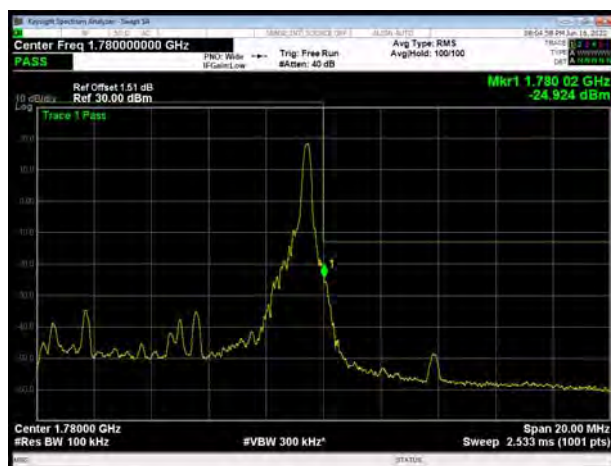
LTE Band 66 64QAM 5MHz CH-High, 100%RB



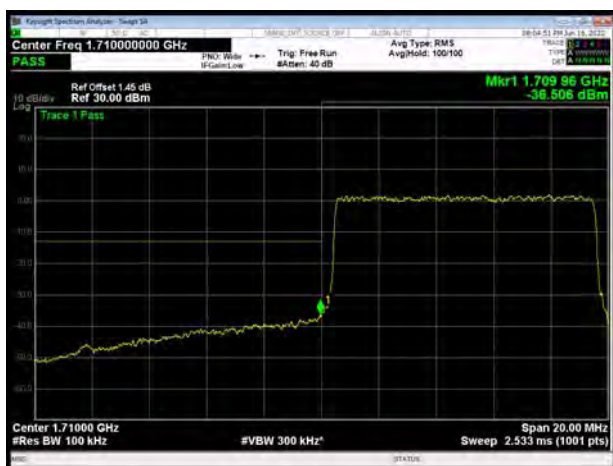
LTE Band 66 64QAM 10MHz CH-Low, 1 RB



LTE Band 66 64QAM 10MHz CH-High, 1 RB



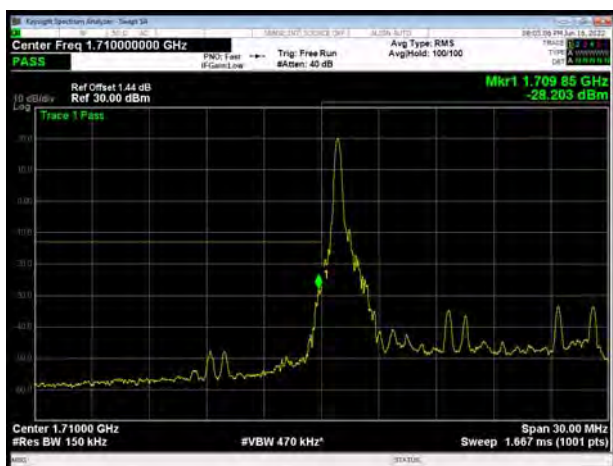
LTE Band 66 64QAM 10MHz CH-Low, 100%RB



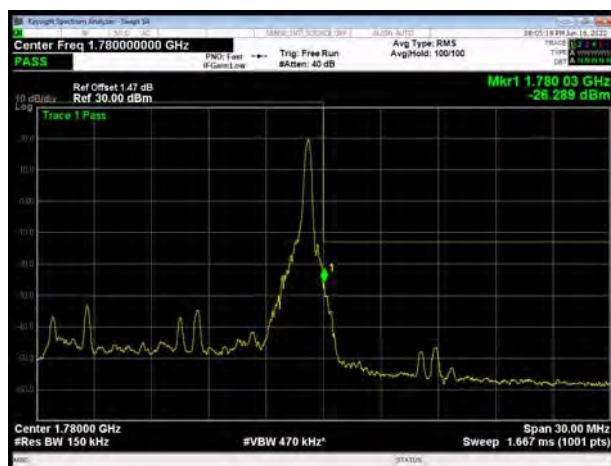
LTE Band 66 64QAM 10MHz CH-High, 100%RB



LTE Band 66 64QAM 15MHz CH-Low, 1 RB

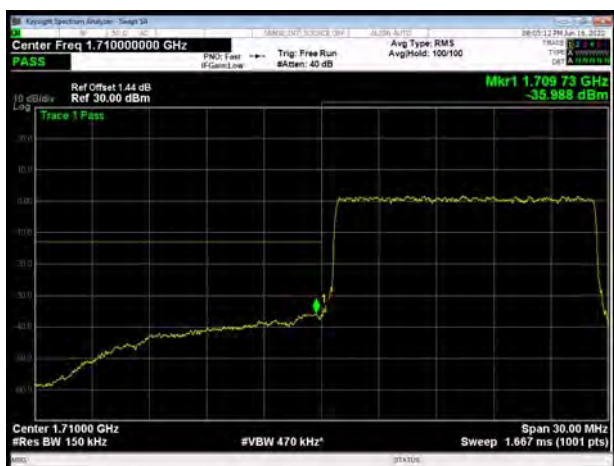


LTE Band 66 64QAM 15MHz CH-High, 1 RB





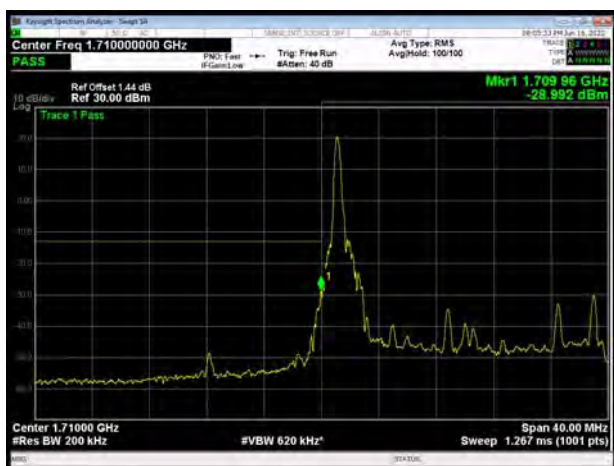
LTE Band 66 64QAM 15MHz CH-Low, 100%RB



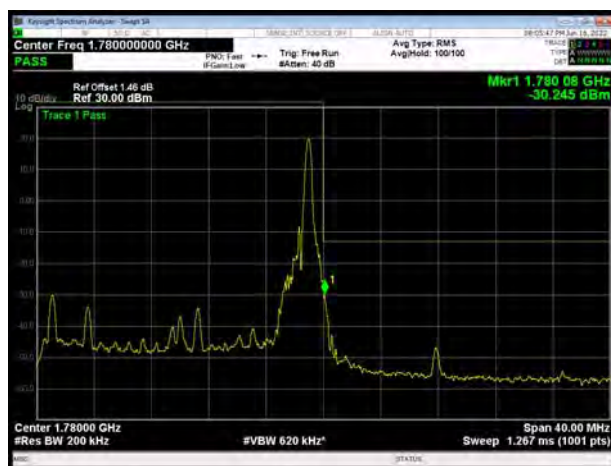
LTE Band 66 64QAM 15MHz CH-High, 100%RB



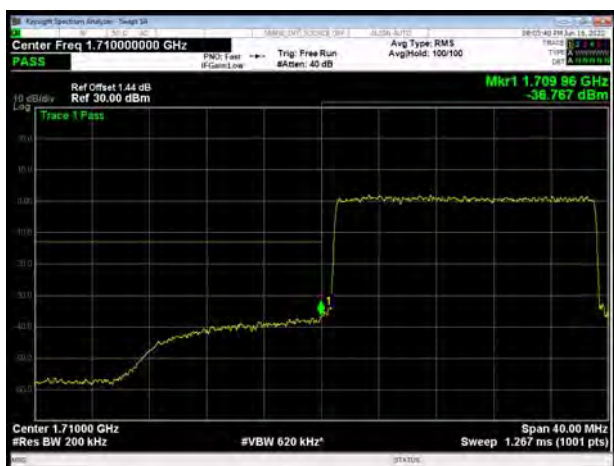
LTE Band 66 64QAM 20MHz CH-Low, 1 RB



LTE Band 66 64QAM 20MHz CH-High, 1 RB



LTE Band 66 64QAM 20MHz CH-Low, 100%RB

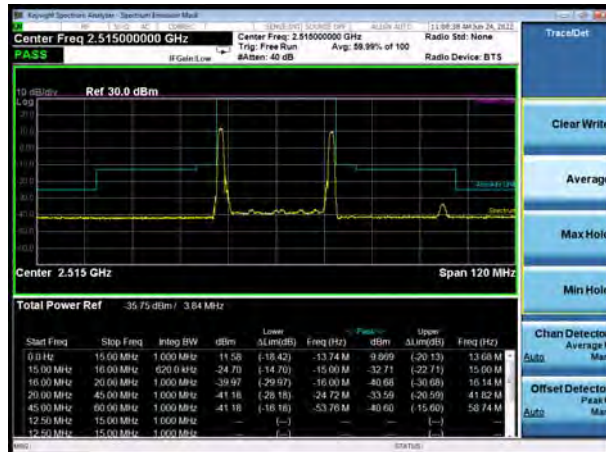


LTE Band 66 64QAM 20MHz CH-High, 100%RB

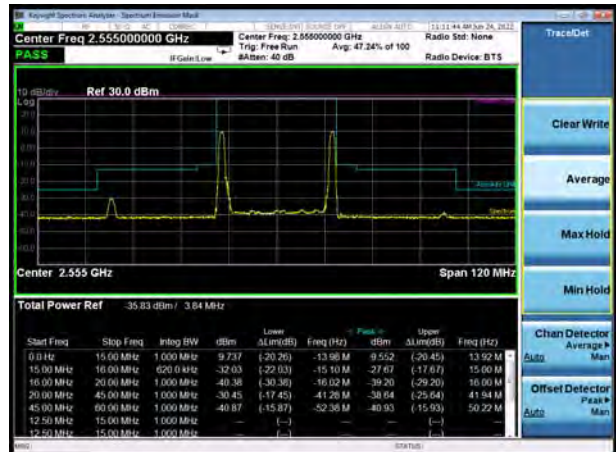




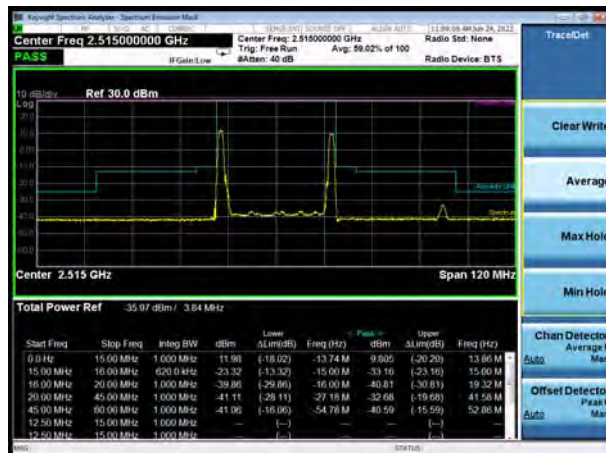
CA_7C QPSK 20MHz+10MHz CH-Low, RB 1



CA_7C QPSK 20MHz+10MHz CH- High, RB 1

CA_7C QPSK 20MHz+10MHz CH-Low,
100%RBCA_7C QPSK 20MHz+10MHz CH- High,
100%RB

CA_7C 16QAM 20MHz+10MHz CH-Low, RB 1

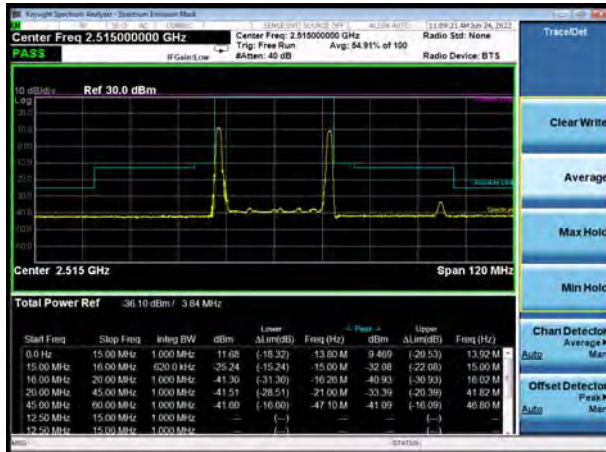


CA_7C 16QAM 20MHz+10MHz CH- High, RB 1



CA_7C 16QAM 20MHz+10MHz CH-Low,
100%RBCA_7C 16QAM 20MHz+10MHz CH- High,
100%RB

CA_7C 64QAM 20MHz+10MHz CH-Low, RB 1



CA_7C 64QAM 20MHz+10MHz CH- High, RB 1

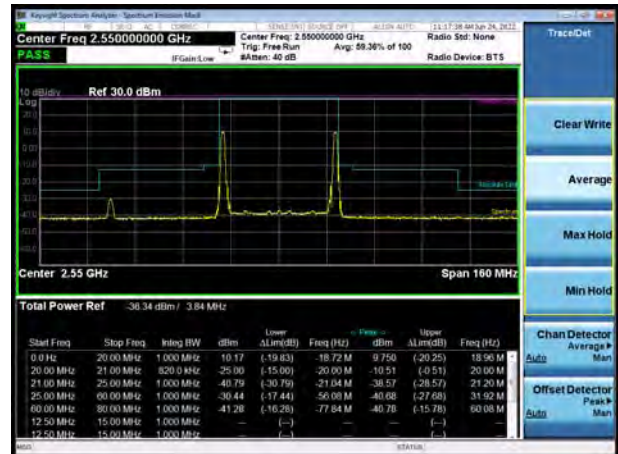
CA_7C 64QAM 20MHz+10MHz CH-Low,
100%RBCA_7C 64QAM 20MHz+10MHz CH- High,
100%RB



CA_7C QPSK 20MHz+20MHz CH-Low, RB 1



CA_7C QPSK 20MHz+20MHz CH- High, RB 1



CA_7C QPSK 20MHz+20MHz CH-Low, 100%RB



CA_7C QPSK 20MHz+20MHz CH- High, 100%RB



CA_7C 16QAM 20MHz+20MHz CH-Low, RB 1



CA_7C 16QAM 20MHz+20MHz CH- High, RB 1



CA_7C 16QAM 20MHz+20MHz CH-Low,
100%RBCA_7C 16QAM 20MHz+20MHz CH- High,
100%RB

CA_7C 64QAM 20MHz+20MHz CH-Low, RB 1



CA_7C 64QAM 20MHz+20MHz CH- High, RB 1

CA_7C 64QAM 20MHz+20MHz CH-Low,
100%RBCA_7C 64QAM 20MHz+20MHz CH- High,
100%RB



NR n7 P1/2 BPSK 20MHz CH-Low 1RB



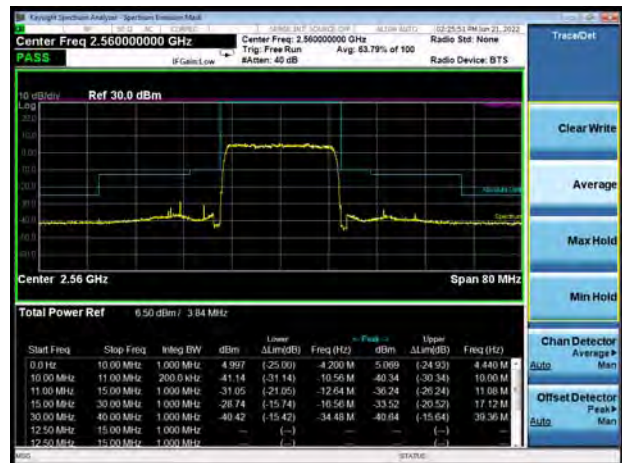
NR n7 P1/2 BPSK 20MHz CH-High 1RB



NR n7 P1/2 BPSK 20MHz CH-Low 100%RB



NR n7 P1/2 BPSK 20MHz CH-High 100%RB



NR n7 QPSK 20MHz CH-Low 1RB



NR n7 QPSK 20MHz CH-High 1RB





NR n7 QPSK 20MHz CH-Low 100%RB



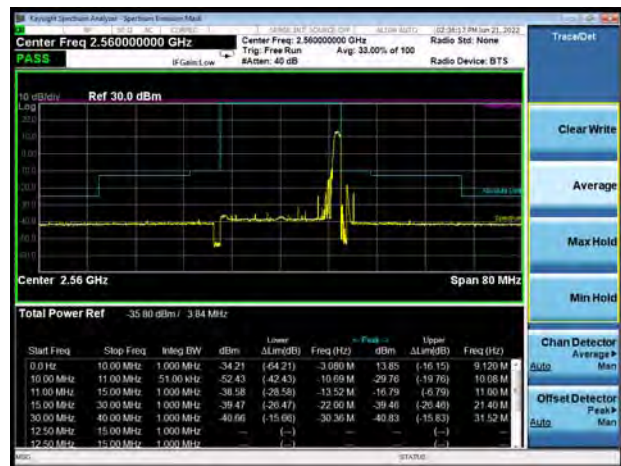
NR n7 QPSK 20MHz CH-High 100%RB



NR n7 16QAM 20MHz CH-Low 1RB



NR n7 16QAM 20MHz CH-High 1RB



NR n7 16QAM 20MHz CH-Low 100%RB



NR n7 16QAM 20MHz CH-High 100%RB





NR n7 64QAM 20MHz CH-Low 1RB



NR n7 64QAM 20MHz CH-High 1RB



NR n7 64QAM 20MHz CH-Low 100%RB



NR n7 64QAM 20MHz CH-High 100%RB



NR n7 256QAM 20MHz CH-Low 1RB



NR n7 256QAM 20MHz CH-High 1RB



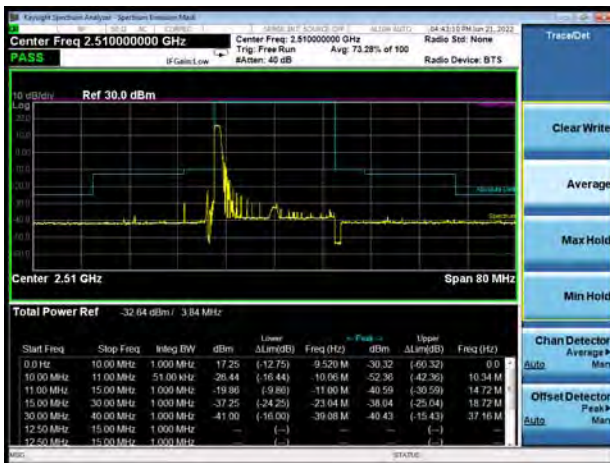
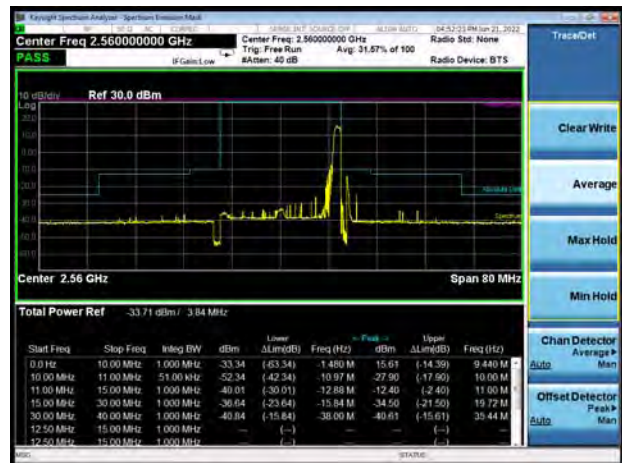
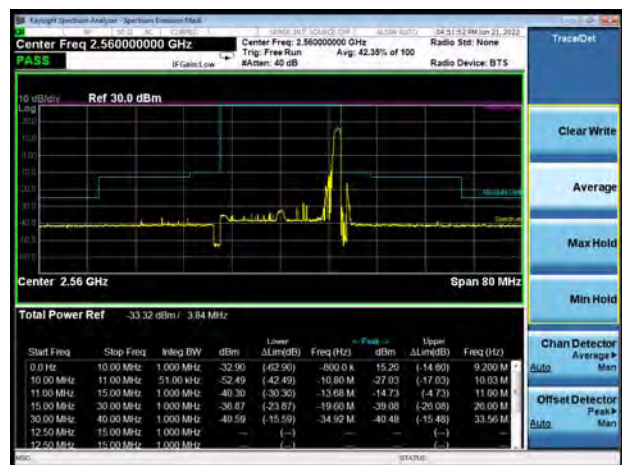


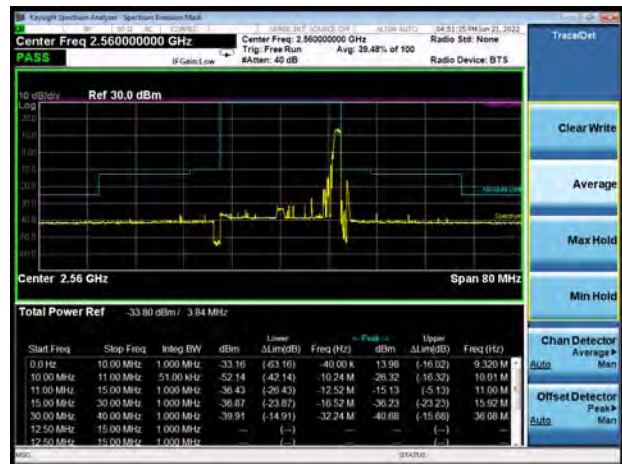
NR n7 256QAM 20MHz CH-Low 100%RB



NR n7 256QAM 20MHz CH-High 100%RB

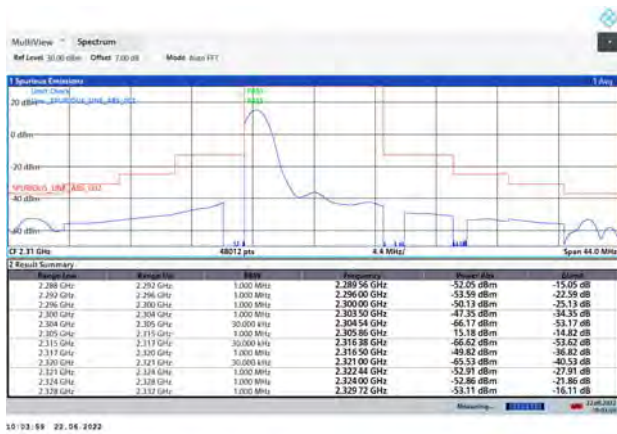
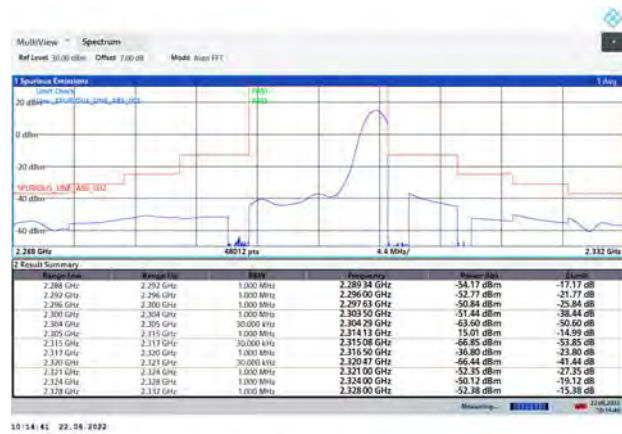
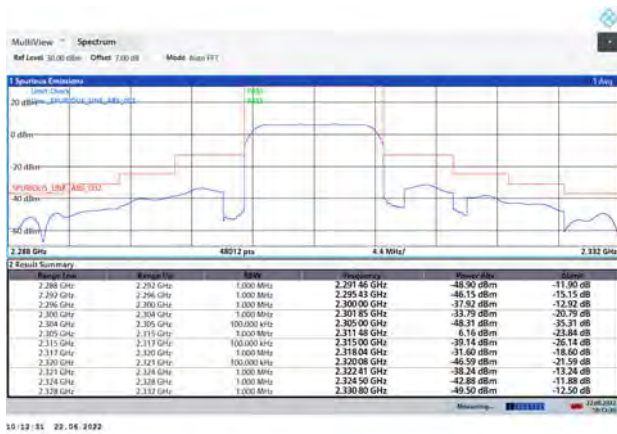
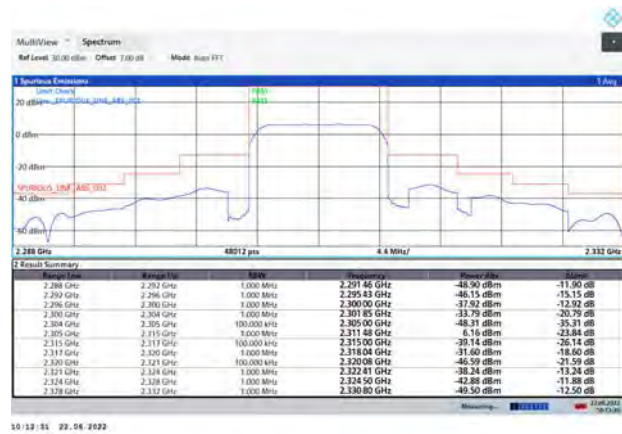


DC_28A (Subset 1)-n7A P1/2 BPSK 20MHz
CH-Low 1RBDC_28A (Subset 1)-n7A P1/2 BPSK 20MHz
CH-High 1RBDC_28A (Subset 1)-n7A P1/2 BPSK 20MHz
CH-Low 100%RBDC_28A (Subset 1)-n7A P1/2 BPSK 20MHz
CH-High 100%RBDC_28A (Subset 1)-n7A QPSK 20MHz CH-Low
1RBDC_28A (Subset 1)-n7A QPSK 20MHz CH-High
1RB

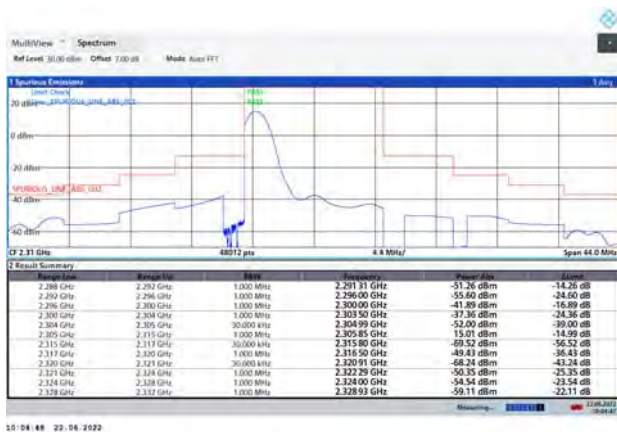
DC_28A (Subset 1)-n7A QPSK 20MHz CH-Low
100%RBDC_28A (Subset 1)-n7A QPSK 20MHz CH-High
100%RBDC_28A (Subset 1)-n7A 16QAM 20MHz CH-Low
1RBDC_28A (Subset 1)-n7A 16QAM 20MHz CH-High
1RBDC_28A (Subset 1)-n7A 16QAM 20MHz CH-Low
100%RBDC_28A (Subset 1)-n7A 16QAM 20MHz CH-High
100%RB

DC_28A (Subset 1)-n7A 64QAM 20MHz CH-Low
1RBDC_28A (Subset 1)-n7A 64QAM 20MHz CH-High
1RBDC_28A (Subset 1)-n7A 64QAM 20MHz CH-Low
100%RBDC_28A (Subset 1)-n7A 64QAM 20MHz CH-High
100%RBDC_28A (Subset 1)-n7A 256QAM 20MHz
CH-Low 1RBDC_28A (Subset 1)-n7A 256QAM 20MHz
CH-High 1RB

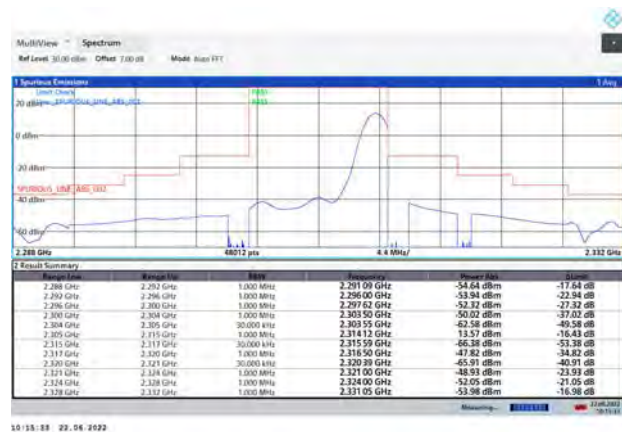
DC_28A (Subset 1)-n7A 256QAM 20MHz
CH-Low 100%RBDC_28A (Subset 1)-n7A 256QAM 20MHz
CH-High 100%RB

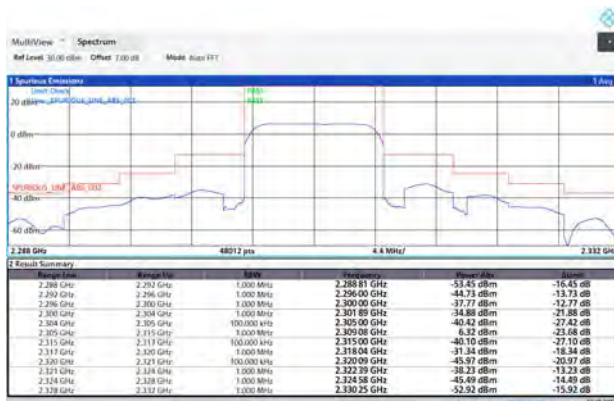
NR n40 Subset 1 P1/2 BPSK 10MHz CH-Low
1RBNR n40 Subset 1 P1/2 BPSK 10MHz CH-High
1RBNR n40 Subset 1 P1/2 BPSK 10MHz CH-Low
100%RBNR n40 Subset 1 P1/2 BPSK 10MHz CH-High
100%RB

NR n40 Subset 1 QPSK 10MHz CH-Low 1RB

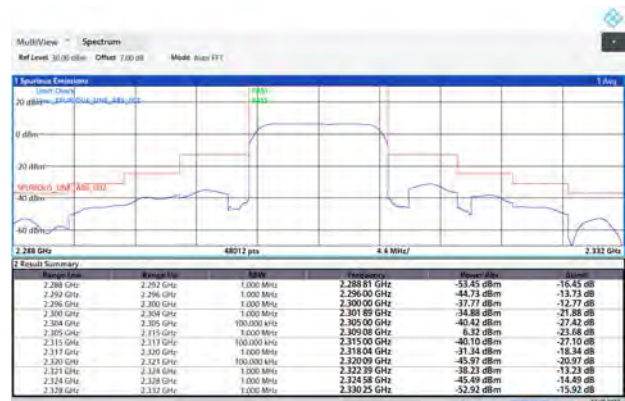


NR n40 Subset 1 QPSK 10MHz CH-High 1RB



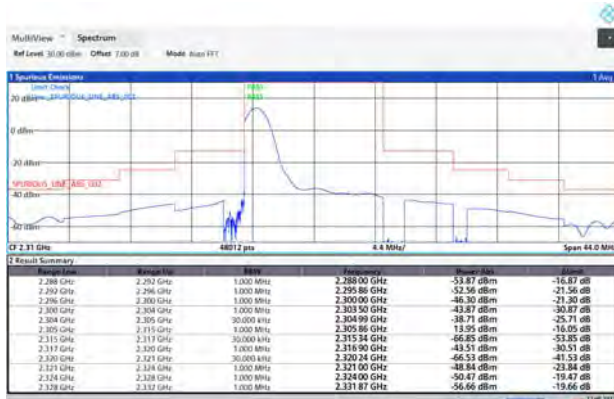
NR n40 Subset 1 QPSK 10MHz CH-Low
100%RB

10/11/42 23:06:2022

NR n40 Subset 1 QPSK 10MHz CH-High
100%RB

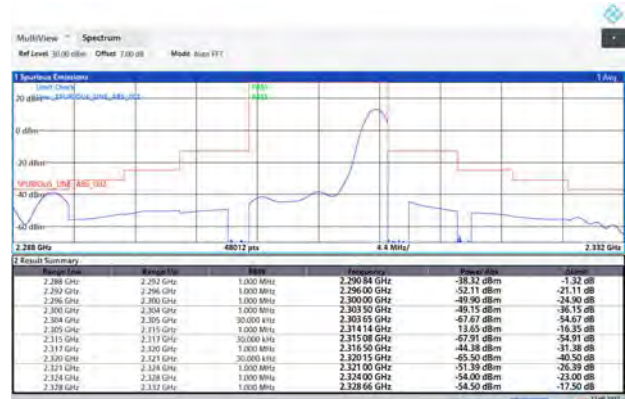
10/11/42 23:06:2022

NR n40 Subset 1 16QAM 10MHz CH-Low 1RB

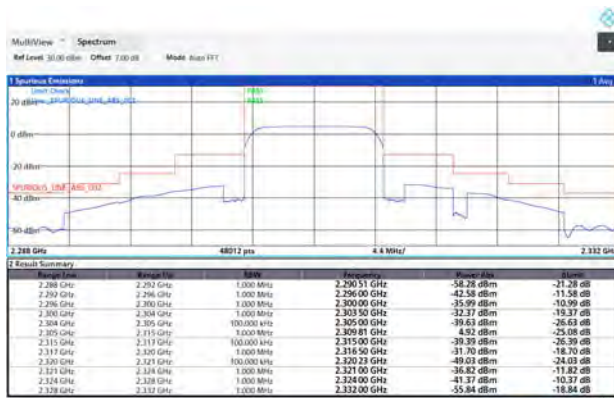


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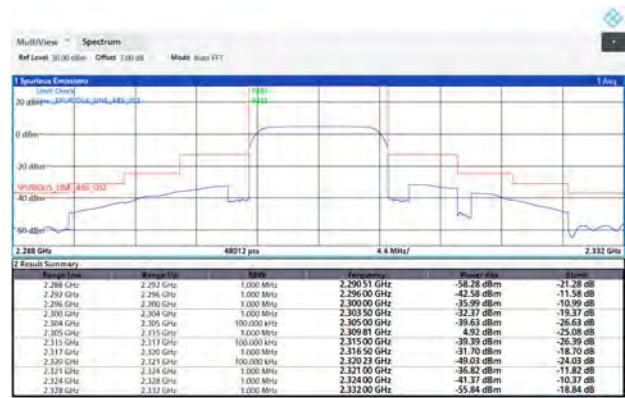
NR n40 Subset 1 16QAM 10MHz CH-High 1RB



10/11/42 23:06:2022

NR n40 Subset 1 16QAM 10MHz CH-Low
100%RB

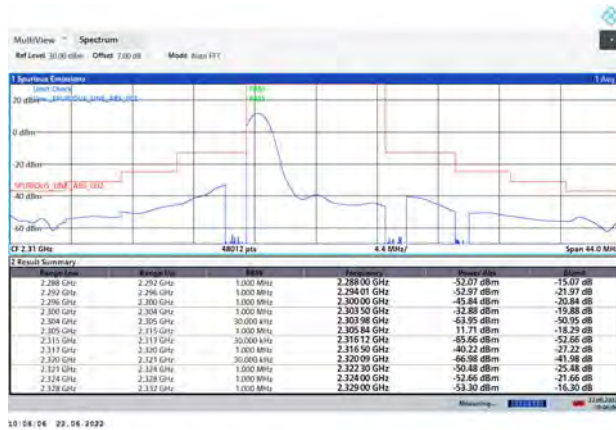
10/11/01 23:06:2022

NR n40 Subset 1 16QAM 10MHz CH-High
100%RB

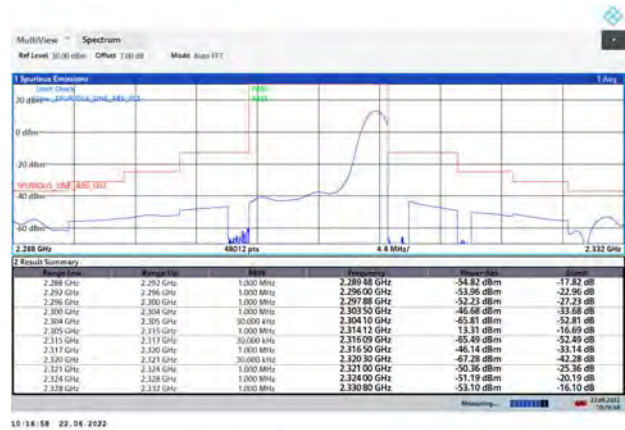
10/11/01 23:06:2022



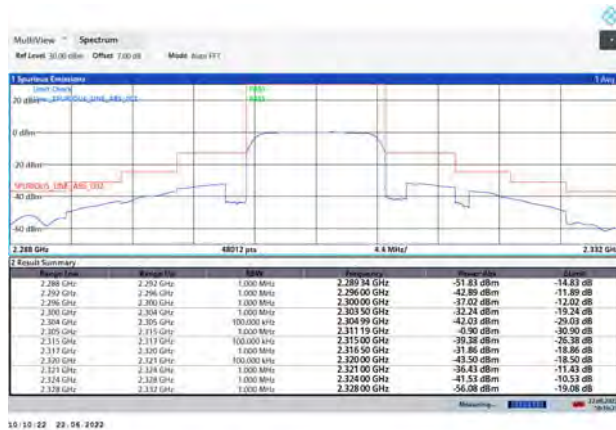
NR n40 Subset 1 64QAM 10MHz CH-Low 1RB



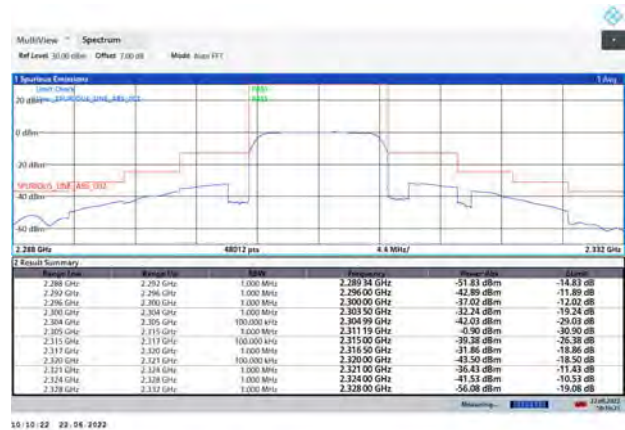
NR n40 Subset 1 64QAM 10MHz CH-High 1RB



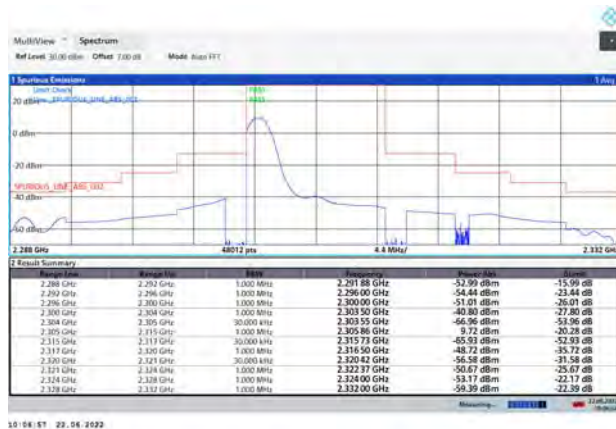
NR n40 Subset 1 64QAM 10MHz CH-Low 100%RB



NR n40 Subset 1 64QAM 10MHz CH-High 100%RB

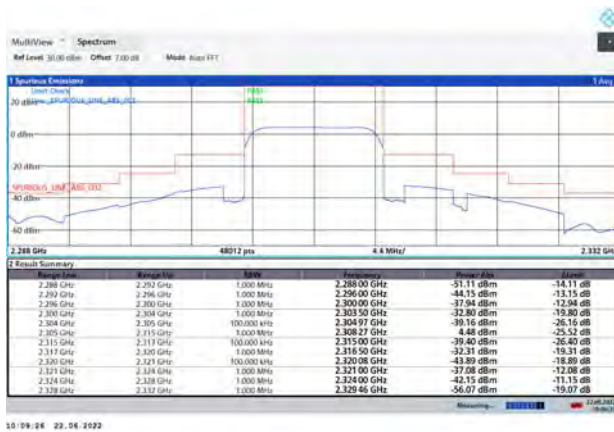


NR n40 Subset 1 256QAM 10MHz CH-Low 1RB

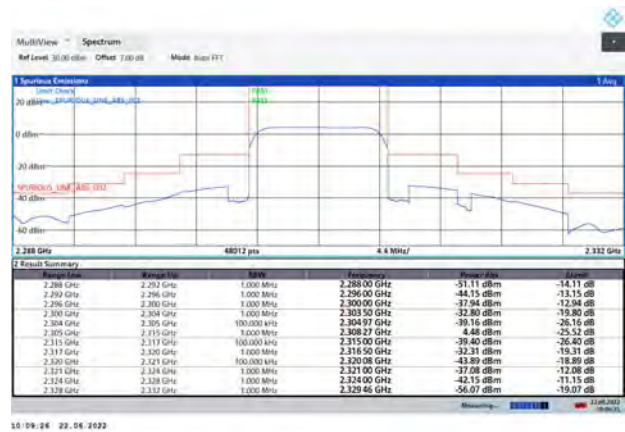


NR n40 Subset 1 256QAM 100MHz CH-High 1RB

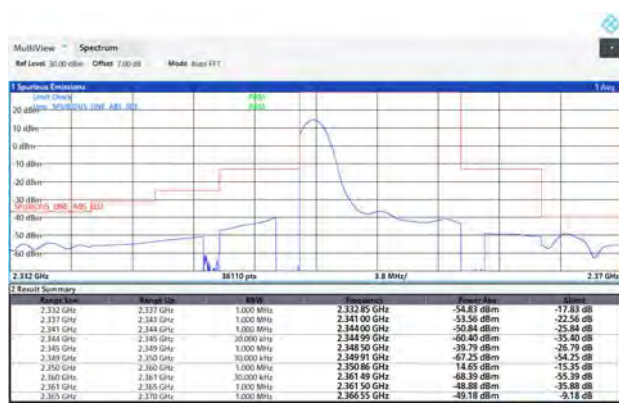


NR n40 Subset 1 256QAM 10MHz CH-Low
100%RB

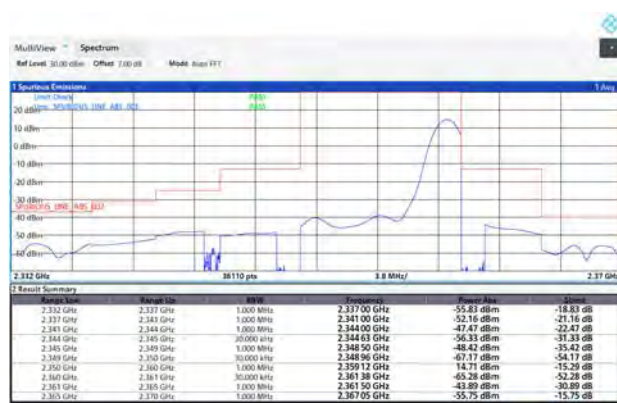
10/09/26 23:56:2022

NR n40 Subset 1 256QAM 10MHz CH-High
100%RB

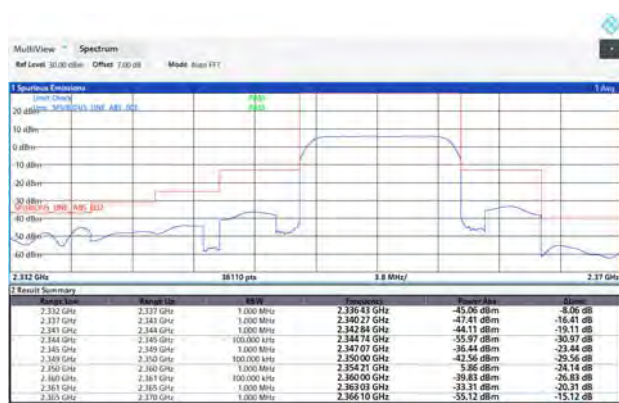
10/09/26 23:56:2022

NR n40 Subset 2 P1/2 BPSK 10MHz CH-Low
1RB

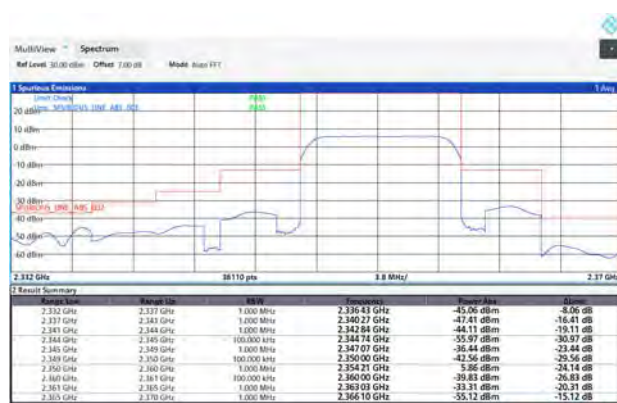
202743 22.05.2022

NR n40 Subset 2 P1/2 BPSK 10MHz CH-High
1RB

20:34:23 22.05.2022

NR n40 Subset 2 P1/2 BPSK 10MHz CH-Low
100%RB

20:35:35 22.06.2022

NR n40 Subset 2 P1/2 BPSK 10MHz CH-High
100%RB

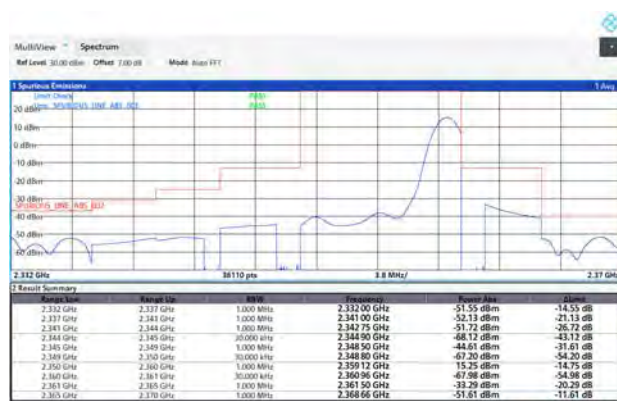
20135:35 22-06-2022

NR n40 Subset 2 QPSK 10MHz CH-Low 1RB

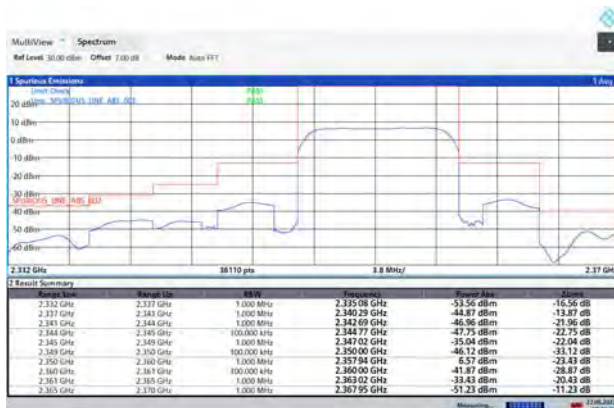


10.1788.46 22.06.2022

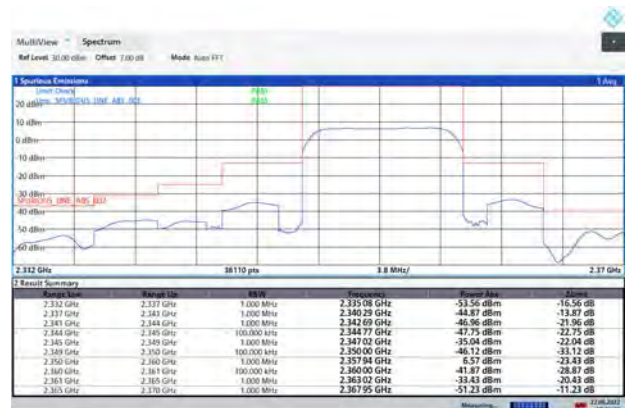
NR n40 Subset 2 QPSK 10MHz CH-High 1RB



10:33:41 22-06-2022

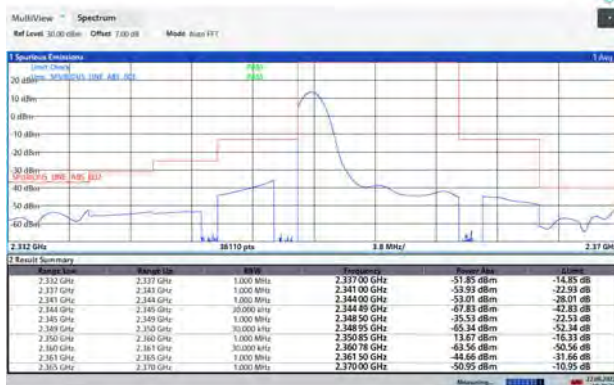
NR n40 Subset 2 QPSK 10MHz CH-Low
100%RB

10/38/22 23:04:2022

NR n40 Subset 2 QPSK 10MHz CH-High
100%RB

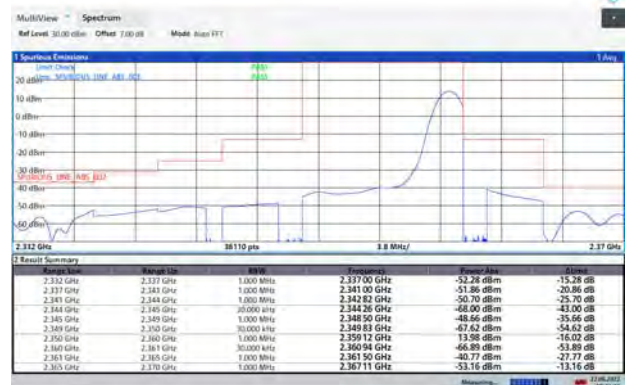
10/38/22 23:04:2022

NR n40 Subset 2 16QAM 10MHz CH-Low 1RB

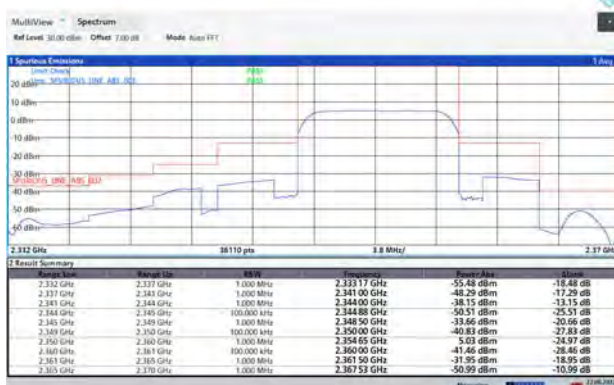


10/38/22 23:04:2022

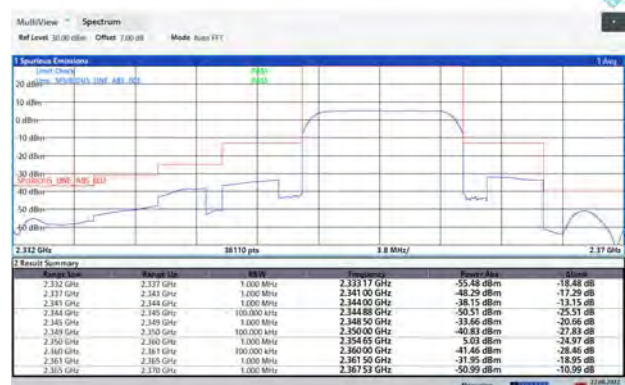
NR n40 Subset 2 16QAM 10MHz CH-High 1RB



10/38/22 23:04:2022

NR n40 Subset 2 16QAM 10MHz CH-Low
100%RB

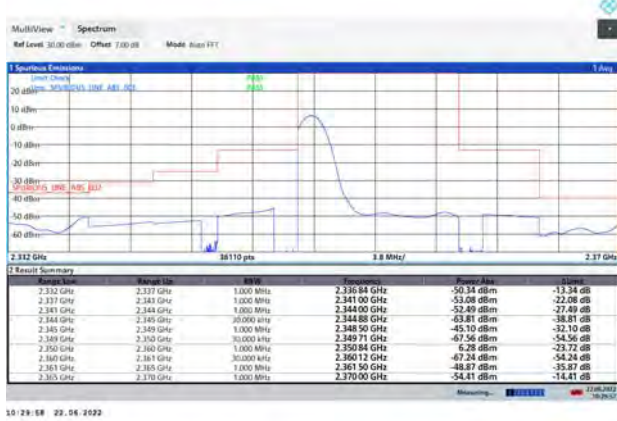
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NR n40 Subset 2 16QAM 10MHz CH-High
100%RB

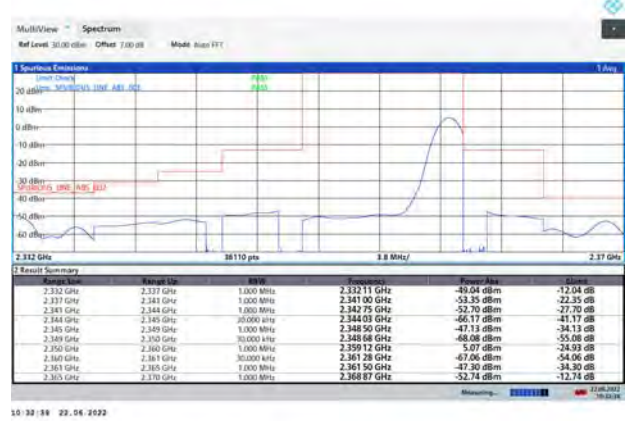
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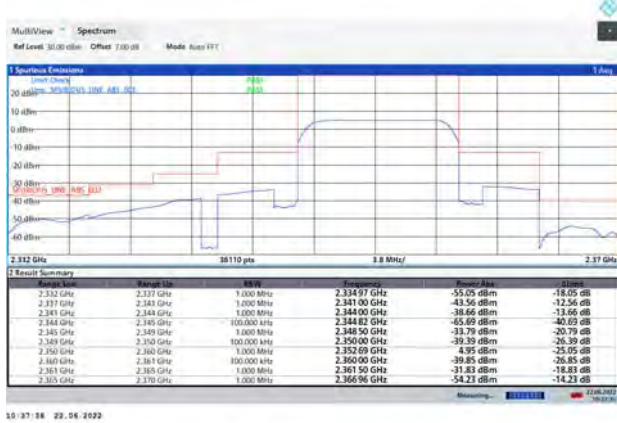
NR n40 Subset 2 64QAM 10MHz CH-Low 1RB



NR n40 Subset 2 64QAM 10MHz CH-High 1RB



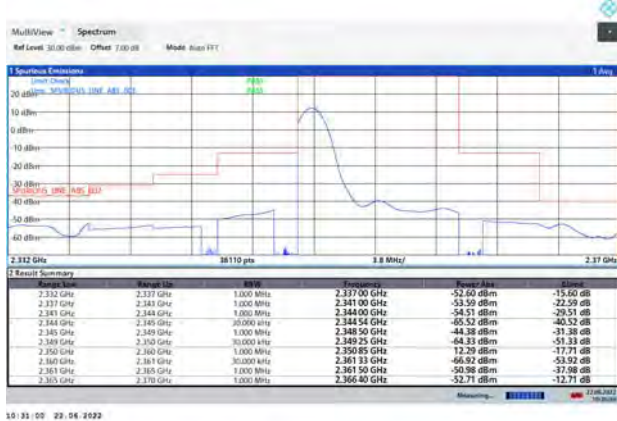
NR n40 Subset 2 64QAM 10MHz CH-Low 100%RB



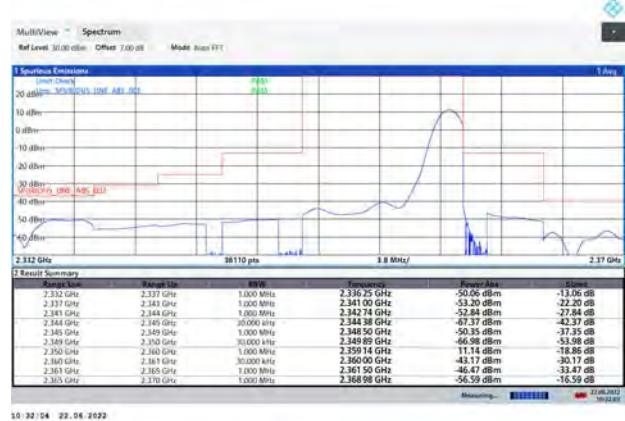
NR n40 Subset 2 64QAM 10MHz CH-High 100%RB

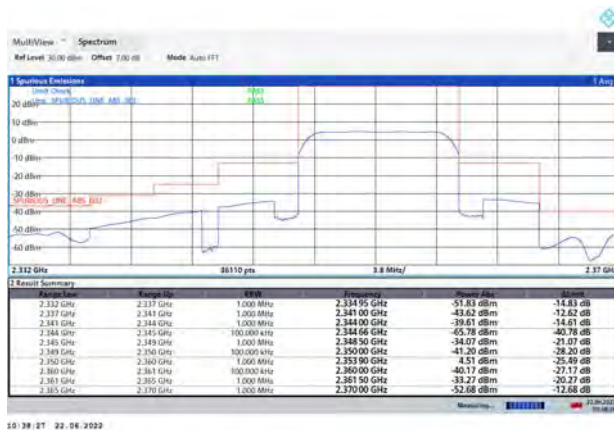


NR n40 Subset 2 256QAM 10MHz CH-Low 1RB

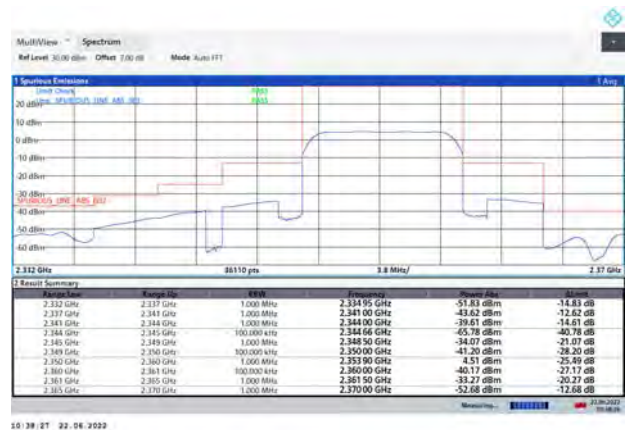


NR n40 Subset 2 256QAM 10MHz CH-High 1RB



NR n40 Subset 2 256QAM 10MHz CH-Low
100%RB

10/30/21 22:06:2020

NR n40 Subset 2 256QAM 10MHz CH-High
100%RB

10/30/21 22:06:2020

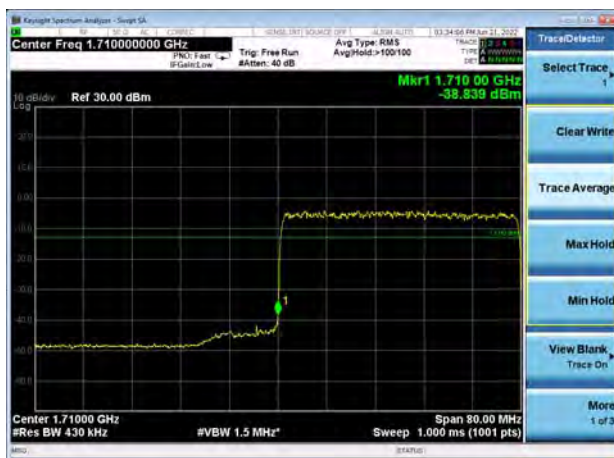
NR n66 P1/2 BPSK 20MHz CH-Low 1RB



NR n66 P1/2 BPSK 20MHz CH-High 1RB



NR n66 P1/2 BPSK 20MHz CH-Low 100%RB



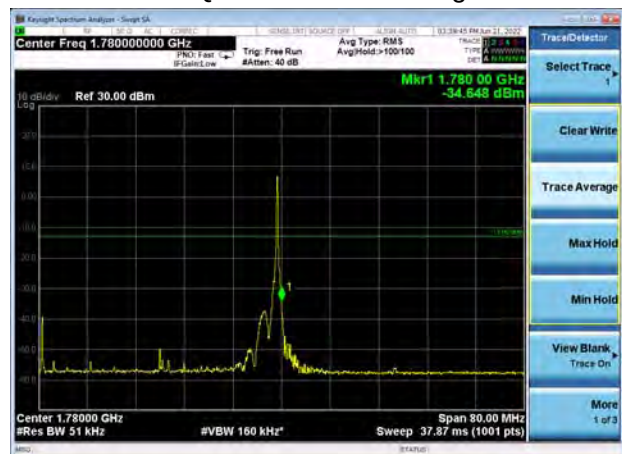
NR n66 P1/2 BPSK 20MHz CH-High 100%RB



NR n66 QPSK 20MHz CH-Low 1RB

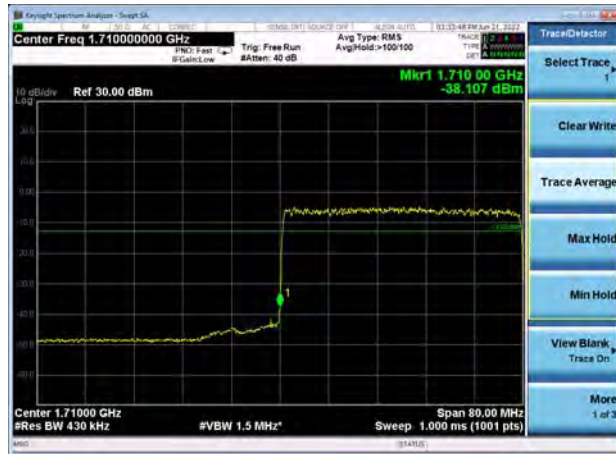


NR n66 QPSK 20MHz CH-High 1RB





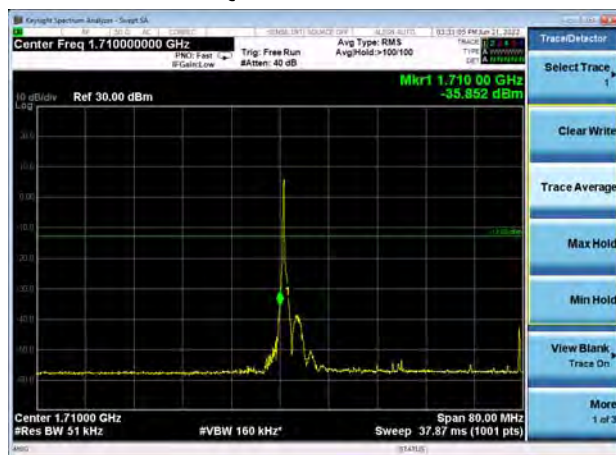
NR n66 QPSK 20MHz CH-Low 100%RB



NR n66 QPSK 20MHz CH-High 100%RB



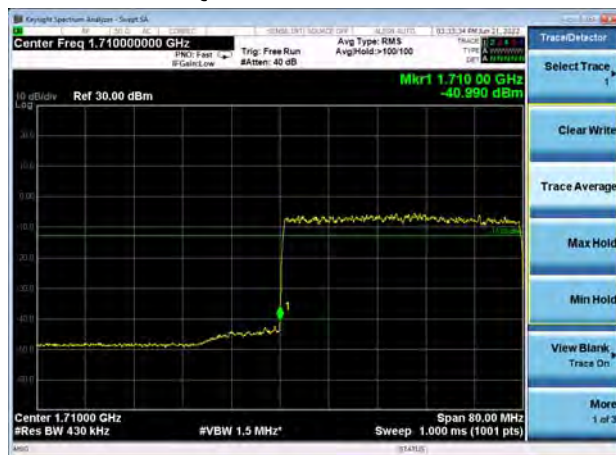
NR n66 16QAM 20MHz CH-Low 1RB



NR n66 16QAM 20MHz CH-High 1RB



NR n66 16QAM 20MHz CH-Low 100%RB



NR n66 16QAM 20MHz CH-High 100%RB





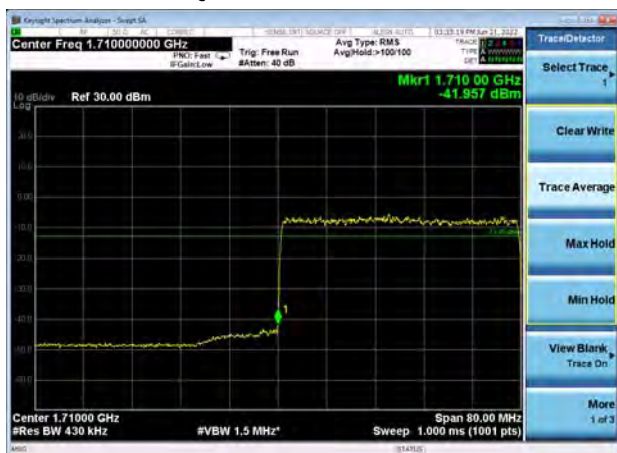
NR n66 64QAM 20MHz CH-Low 1RB



NR n66 64QAM 20MHz CH-High 1RB



NR n66 64QAM 20MHz CH-Low 100%RB



NR n66 64QAM 20MHz CH-High 100%RB



NR n66 256QAM 20MHz CH-Low 1RB

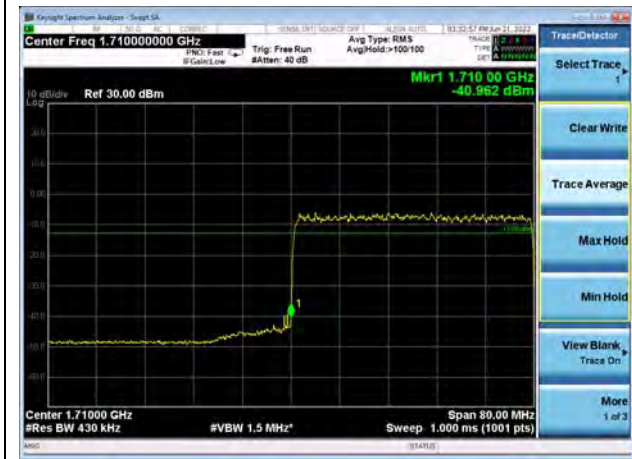


NR n66 256QAM 20MHz CH-High 1RB





NR n66 256QAM 20MHz CH-Low 100%RB

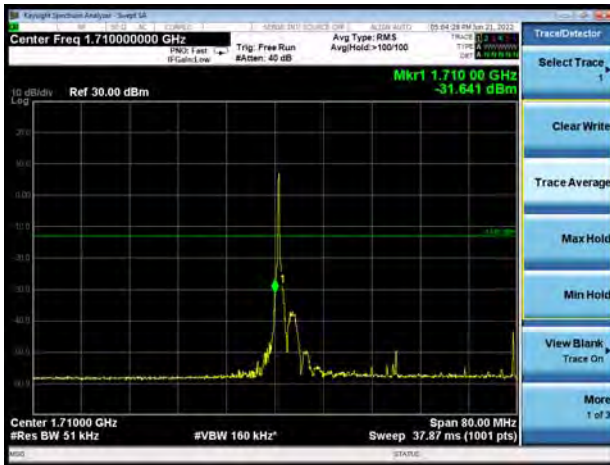


NR n66 256QAM 20MHz CH-High 100%RB





DC_2A-n66A P1/2 BPSK 20MHz CH-Low 1RB



DC_2A-n66A P1/2 BPSK 20MHz CH-High 1RB

DC_2A-n66A P1/2 BPSK 20MHz CH-Low
100%RBDC_2A-n66A P1/2 BPSK 20MHz CH-High
100%RB

DC_2A-n66A QPSK 20MHz CH-Low 1RB

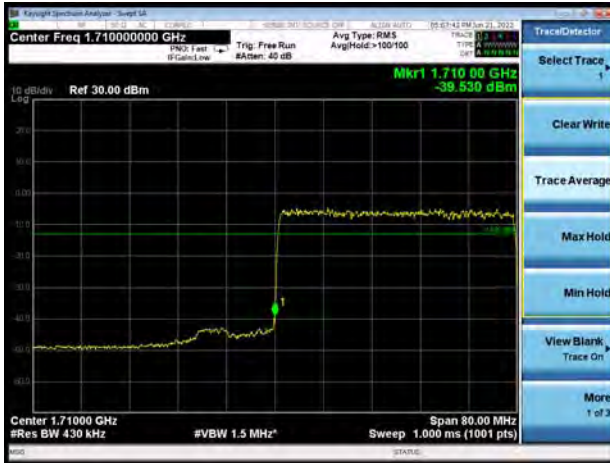


DC_2A-n66A QPSK 20MHz CH-High 1RB





DC_2A-n66A QPSK 20MHz CH-Low 100%RB



DC_2A-n66A QPSK 20MHz CH-High 100%RB



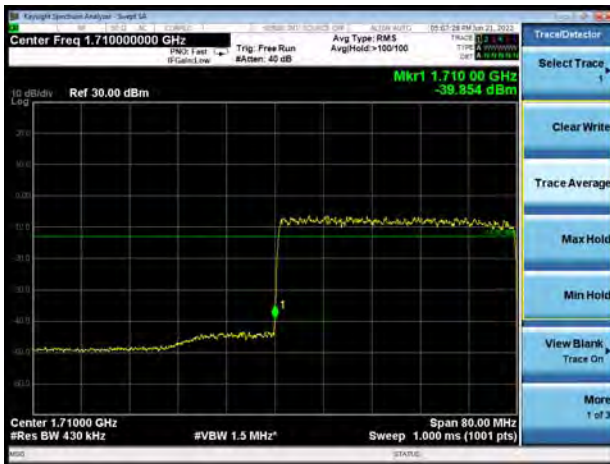
DC_2A-n66A 16QAM 20MHz CH-Low 1RB



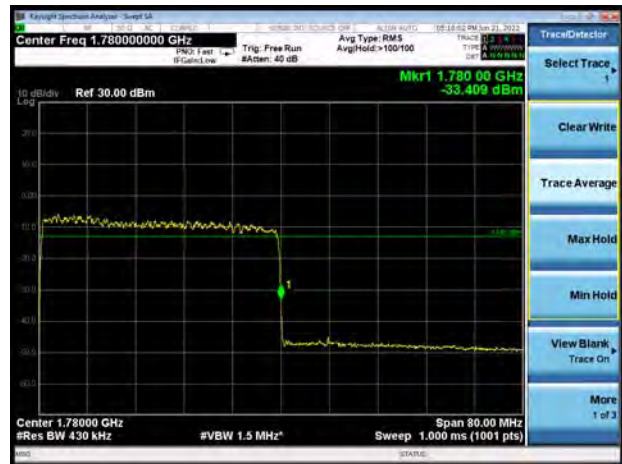
DC_2A-n66A 16QAM 20MHz CH-High 1RB



DC_2A-n66A 16QAM 20MHz CH-Low 100%RB



DC_2A-n66A 16QAM 20MHz CH-High 100%RB





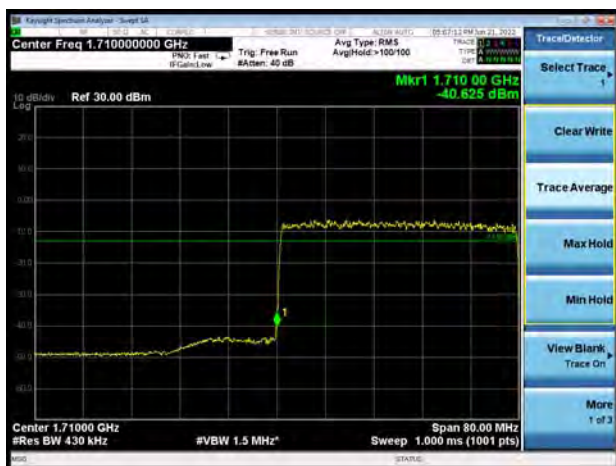
DC_2A-n66A 64QAM 20MHz CH-Low 1RB



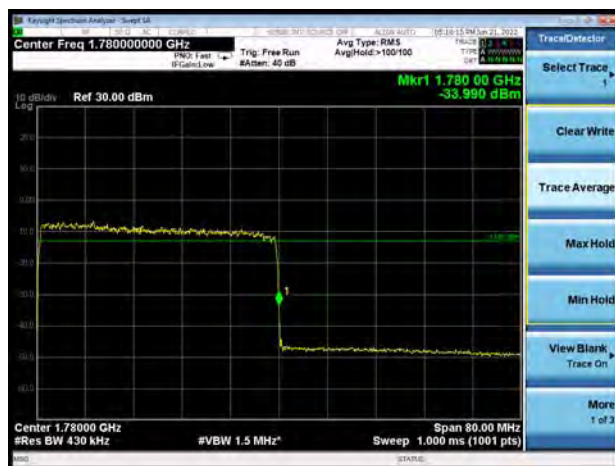
DC_2A-n66A 64QAM 20MHz CH-High 1RB



DC_2A-n66A 64QAM 20MHz CH-Low 100%RB



DC_2A-n66A 64QAM 20MHz CH-High 100%RB



DC_2A-n66A 256QAM 20MHz CH-Low 1RB



DC_2A-n66A 256QAM 20MHz CH-High 1RB



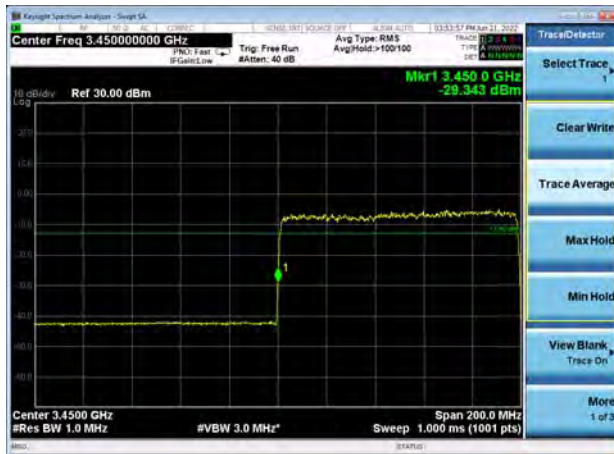
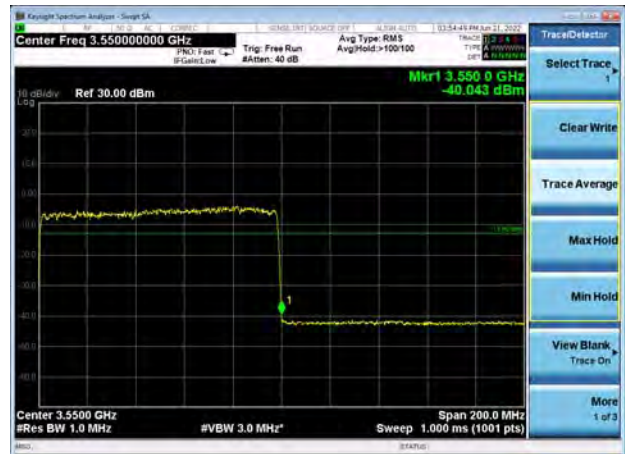


DC_2A-n66A 256QAM 20MHz CH-Low 100%RB



DC_2A-n66A 256QAM 20MHz CH-High 100%RB



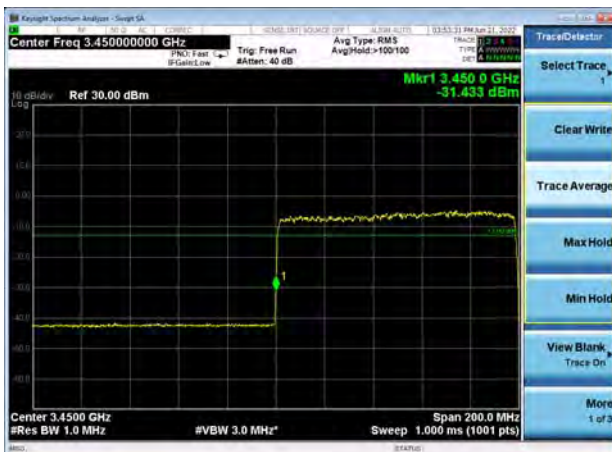
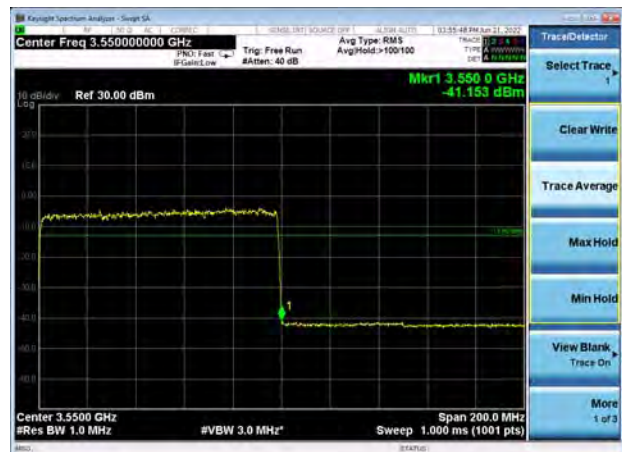
NR n78 Subset 1 P1/2 BPSK 100MHz CH-Low
1RBNR n78 Subset 1 P1/2 BPSK 100MHz CH-High
1RBNR n78 Subset 1 P1/2 BPSK 100MHz CH-Low
100%RBNR n78 Subset 1 P1/2 BPSK 100MHz CH-High
100%RB

NR n78 Subset 1 QPSK 100MHz CH-Low 1RB



NR n78 Subset 1 QPSK 100MHz CH-High 1RB

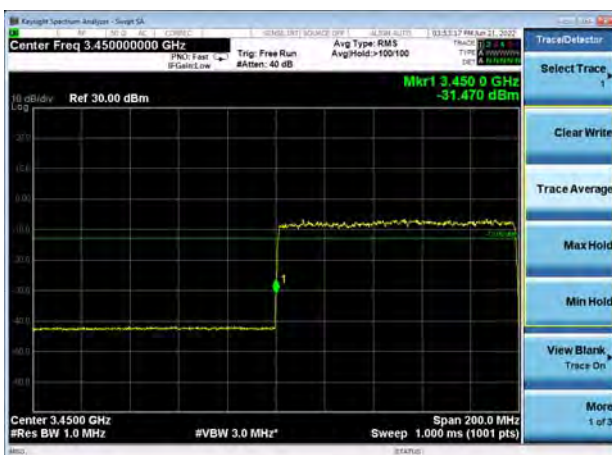
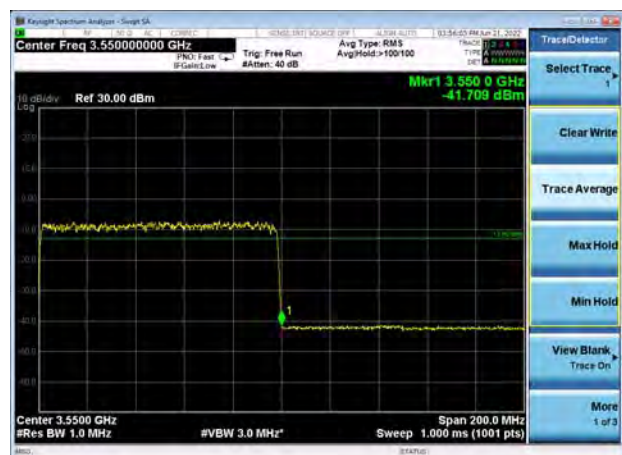


NR n78 Subset 1 QPSK 100MHz CH-Low
100%RBNR n78 Subset 1 QPSK 100MHz CH-High
100%RB

NR n78 Subset 1 16QAM 100MHz CH-Low 1RB

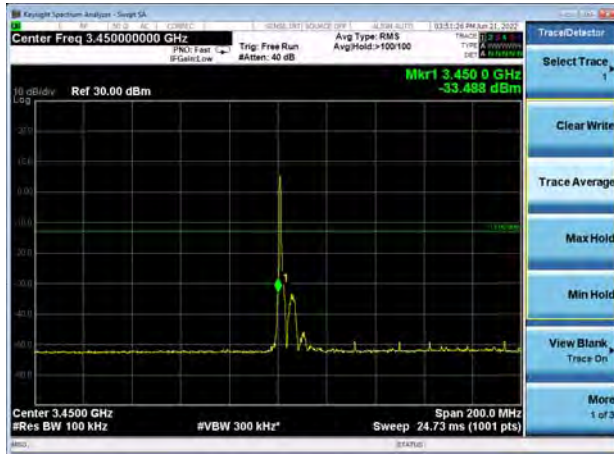


NR n78 Subset 1 16QAM 100MHz CH-High 1RB

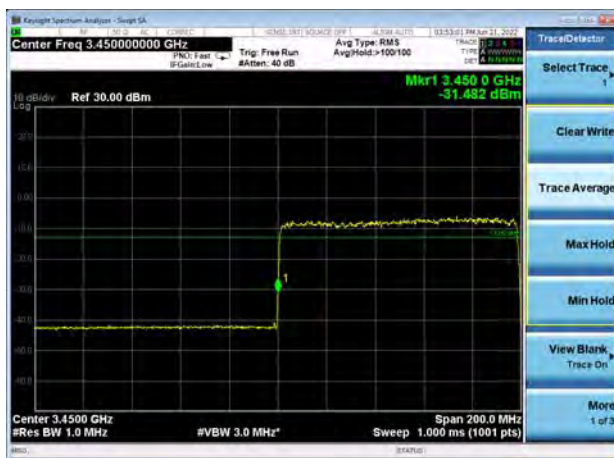
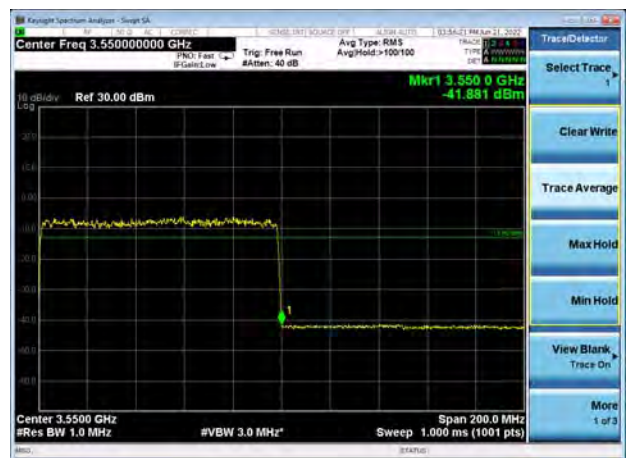
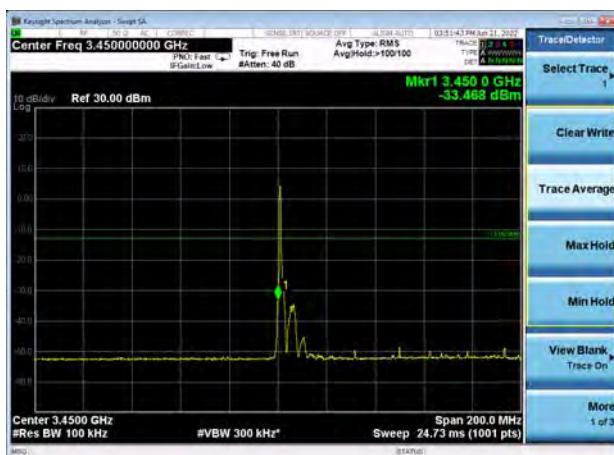
NR n78 Subset 1 16QAM 100MHz CH-Low
100%RBNR n78 Subset 1 16QAM 100MHz CH-High
100%RB

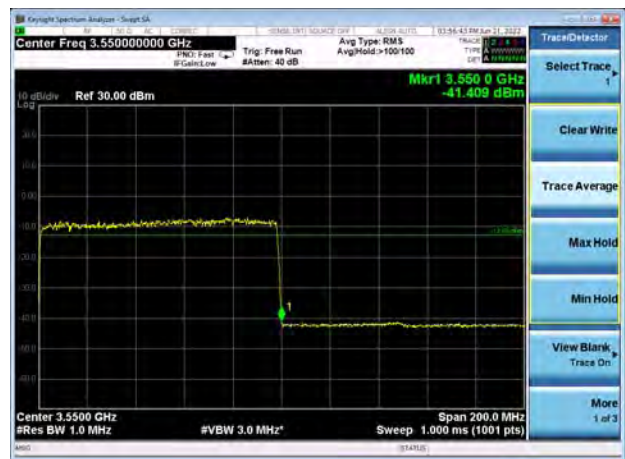


NR n78 Subset 1 64QAM 100MHz CH-Low 1RB



NR n78 Subset 1 64QAM 100MHz CH-High 1RB

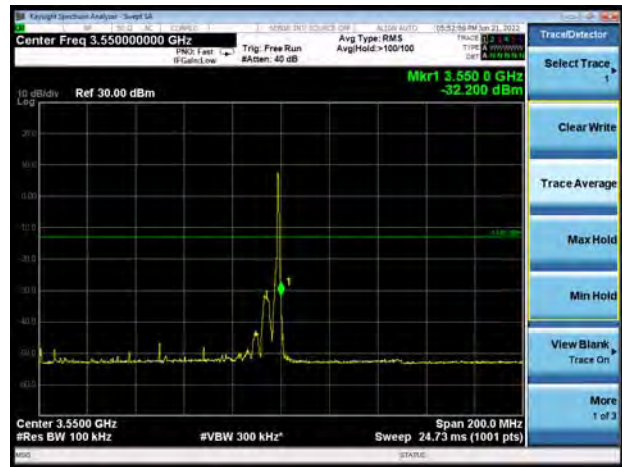
NR n78 Subset 1 64QAM 100MHz CH-Low
100%RBNR n78 Subset 1 64QAM 100MHz CH-High
100%RBNR n78 Subset 1 25A6QAM 100MHz CH-Low
1RBNR n78 Subset 1 25A6QAM 100MHz CH-High
1RB

NR n78 Subset 1 25A6QAM 100MHz CH-Low
100%RBNR n78 Subset 1 25A6QAM 100MHz CH-High
100%RB

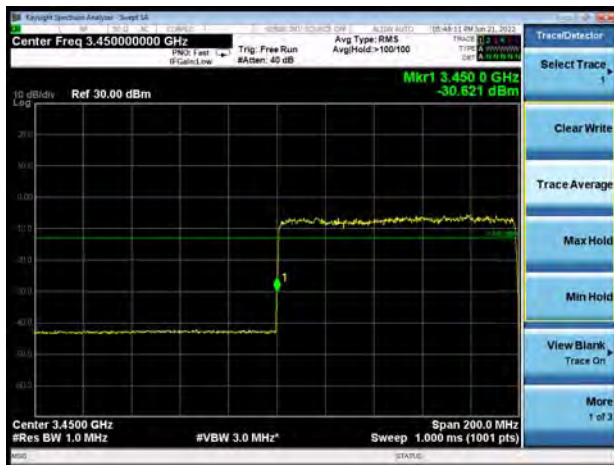
DC_5A-n78A (Subset 1) P1/2 BPSK 100MHz
CH-Low 1RB



DC_5A-n78A (Subset 1) P1/2 BPSK 100MHz
CH-High 1RB



DC_5A-n78A (Subset 1) P1/2 BPSK 100MHz
CH-Low 100%RB



DC_5A-n78A (Subset 1) P1/2 BPSK 100MHz
CH-High 100%RB

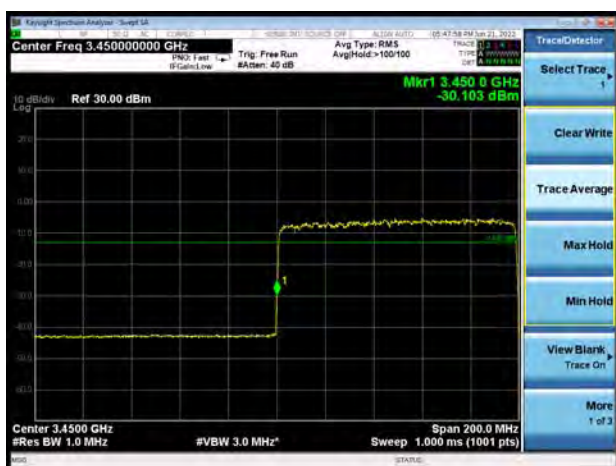
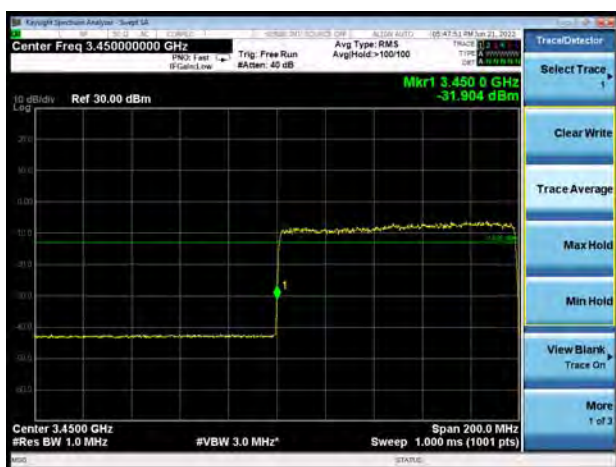
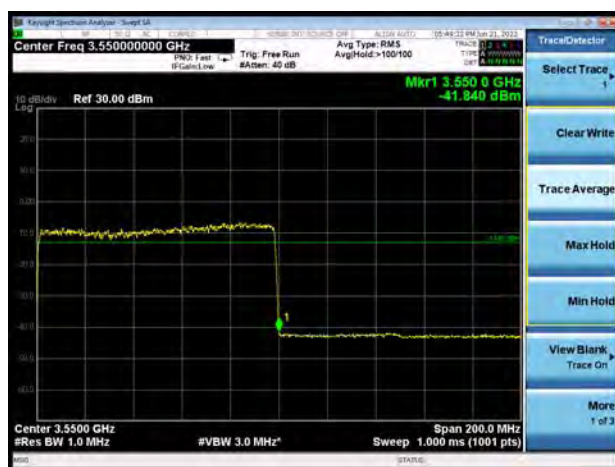


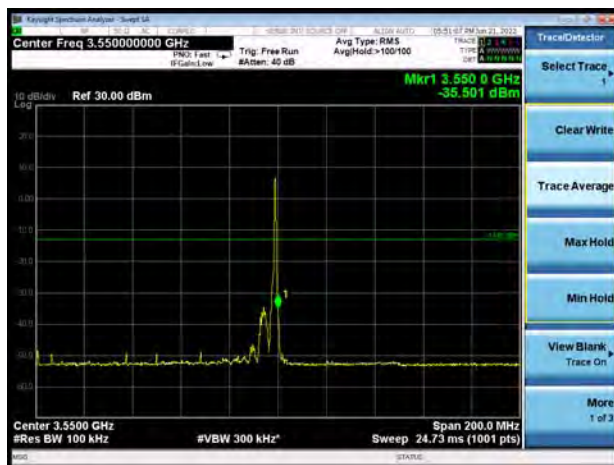
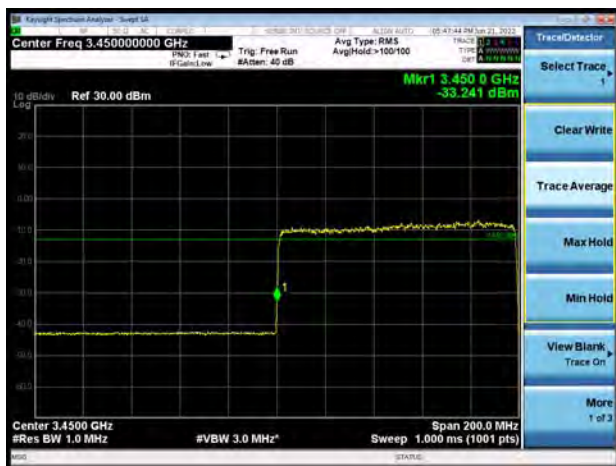
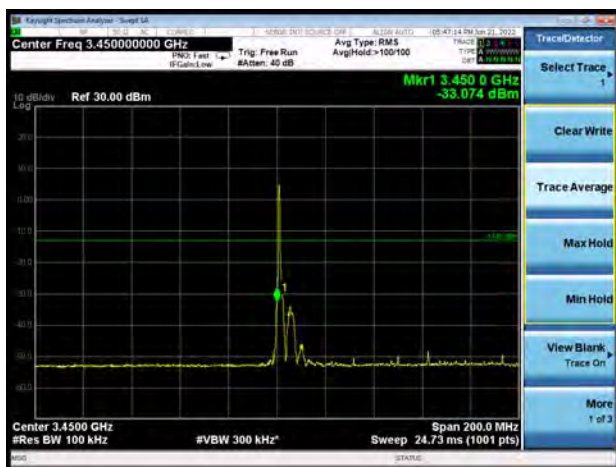
DC_5A-n78A (Subset 1) QPSK 100MHz CH-Low
1RB



DC_5A-n78A (Subset 1) QPSK 100MHz CH-High
1RB



DC_5A-n78A (Subset 1) QPSK 100MHz CH-Low
100%RBDC_5A-n78A (Subset 1) QPSK 100MHz CH-High
100%RBDC_5A-n78A (Subset 1) 16QAM 100MHz
CH-Low 1RBDC_5A-n78A (Subset 1) 16QAM 100MHz
CH-High 1RBDC_5A-n78A (Subset 1) 16QAM 100MHz
CH-Low 100%RBDC_5A-n78A (Subset 1) 16QAM 100MHz
CH-High 100%RB

DC_5A-n78A (Subset 1) 64QAM 100MHz
CH-Low 1RBDC_5A-n78A (Subset 1) 64QAM 100MHz
CH-High 1RBDC_5A-n78A (Subset 1) 64QAM 100MHz
CH-Low 100%RBDC_5A-n78A (Subset 1) 64QAM 100MHz
CH-High 100%RBDC_5A-n78A (Subset 1) 256QAM 100MHz
CH-Low 1RBDC_5A-NR n78(Subset 2)A 256QAM 100MHz
CH-High 1RB

DC_5A-n78A (Subset 1) 256QAM 100MHz
CH-Low 100%RBDC_5A-n78A (Subset 1) 256QAM 100MHz
CH-High 100%RB

6.4 Peak-to-Average Power Ratio (PAPR)

WCDMA Band IV	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
RMC	1312	1712.4	23.73	20.47	3.26	≤13	PASS
	1413	1732.6	23.59	20.33	3.26	≤13	PASS
	1513	1752.6	23.47	20.25	3.22	≤13	PASS

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.52	21.65	5.87	≤13	PASS
		20175	1732.5	27.64	21.56	6.08	≤13	PASS
		20393	1754.3	27.36	21.55	5.81	≤13	PASS
	3	19965	1711.5	27.53	21.60	5.93	≤13	PASS
		20175	1732.5	27.49	21.50	5.99	≤13	PASS
		20385	1753.5	27.40	21.51	5.89	≤13	PASS
	5	19975	1712.5	27.49	21.60	5.89	≤13	PASS
		20175	1732.5	27.59	21.53	6.06	≤13	PASS
		20375	1752.5	27.39	21.54	5.85	≤13	PASS
	10	20000	1715	27.46	21.65	5.81	≤13	PASS
		20175	1732.5	27.47	21.53	5.94	≤13	PASS
		20350	1750	27.37	21.54	5.83	≤13	PASS
	15	20025	1717.5	27.78	21.58	6.20	≤13	PASS
		20175	1732.5	27.82	21.51	6.31	≤13	PASS
		20325	1747.5	27.68	21.52	6.16	≤13	PASS
	20	20050	1720	27.45	21.61	5.84	≤13	PASS
		20175	1732.5	27.31	21.47	5.84	≤13	PASS
		20300	1745	27.39	21.51	5.88	≤13	PASS
16QAM	1.4	19957	1710.7	27.20	20.60	6.60	≤13	PASS
		20175	1732.5	27.18	20.52	6.66	≤13	PASS
		20393	1754.3	27.23	20.57	6.66	≤13	PASS
	3	19965	1711.5	27.28	20.59	6.69	≤13	PASS
		20175	1732.5	27.24	20.45	6.79	≤13	PASS
		20385	1753.5	27.22	20.55	6.67	≤13	PASS
	5	19975	1712.5	27.11	20.61	6.50	≤13	PASS
		20175	1732.5	27.24	20.54	6.70	≤13	PASS
		20375	1752.5	27.11	20.55	6.56	≤13	PASS
	10	20000	1715	27.16	20.59	6.57	≤13	PASS



		20175	1732.5	27.22	20.50	6.72	≤13	PASS
		20350	1750	27.06	20.50	6.56	≤13	PASS
	15	20025	1717.5	27.21	20.60	6.61	≤13	PASS
		20175	1732.5	27.20	20.47	6.73	≤13	PASS
		20325	1747.5	27.16	20.51	6.65	≤13	PASS
	20	20050	1720	27.16	20.58	6.58	≤13	PASS
		20175	1732.5	27.04	20.44	6.60	≤13	PASS
		20300	1745	27.09	20.54	6.55	≤13	PASS
64QAM	1.4	19957	1710.7	26.69	20.00	6.69	≤13	PASS
		20175	1732.5	26.61	19.94	6.67	≤13	PASS
		20393	1754.3	26.53	19.95	6.58	≤13	PASS
	3	19965	1711.5	26.76	20.03	6.73	≤13	PASS
		20175	1732.5	26.68	19.87	6.81	≤13	PASS
		20385	1753.5	26.51	19.93	6.58	≤13	PASS
	5	19975	1712.5	26.64	20.01	6.63	≤13	PASS
		20175	1732.5	26.71	19.96	6.75	≤13	PASS
		20375	1752.5	26.49	19.98	6.51	≤13	PASS
	10	20000	1715	26.55	19.99	6.56	≤13	PASS
		20175	1732.5	26.72	19.94	6.78	≤13	PASS
		20350	1750	26.46	19.94	6.52	≤13	PASS
	15	20025	1717.5	26.61	20.00	6.61	≤13	PASS
		20175	1732.5	26.62	19.89	6.73	≤13	PASS
		20325	1747.5	26.50	19.90	6.60	≤13	PASS
	20	20050	1720	26.55	19.99	6.56	≤13	PASS
		20175	1732.5	26.50	19.87	6.63	≤13	PASS
		20300	1745	26.46	19.92	6.54	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	26.78	21.65	5.13	≤13	PASS
		21100	2535	27.36	21.47	5.89	≤13	PASS
		21425	2567.5	27.28	21.57	5.71	≤13	PASS
	10	20800	2505	26.78	21.64	5.14	≤13	PASS
		21100	2535	27.33	21.46	5.87	≤13	PASS
		21400	2565	27.29	21.57	5.72	≤13	PASS
	15	20825	2507.5	27.22	21.59	5.63	≤13	PASS
		21100	2535	27.65	21.46	6.19	≤13	PASS



	20	21375	2562.5	27.61	21.59	6.02	≤13	PASS
		20850	2510	27.00	21.57	5.43	≤13	PASS
		21100	2535	27.21	21.43	5.78	≤13	PASS
		21350	2560	27.29	21.55	5.74	≤13	PASS
16QAM	5	20775	2502.5	26.56	20.68	5.88	≤13	PASS
		21100	2535	26.99	20.47	6.52	≤13	PASS
		21425	2567.5	27.03	20.57	6.46	≤13	PASS
	10	20800	2505	26.57	20.62	5.95	≤13	PASS
		21100	2535	27.00	20.45	6.55	≤13	PASS
		21400	2565	27.03	20.54	6.49	≤13	PASS
	15	20825	2507.5	26.79	20.61	6.18	≤13	PASS
		21100	2535	27.11	20.47	6.64	≤13	PASS
		21375	2562.5	27.08	20.55	6.53	≤13	PASS
	20	20850	2510	26.77	20.54	6.23	≤13	PASS
		21100	2535	26.97	20.43	6.54	≤13	PASS
		21350	2560	26.97	20.52	6.45	≤13	PASS
64QAM	5	20775	2502.5	26.27	20.20	6.07	≤13	PASS
		21100	2535	26.63	19.93	6.70	≤13	PASS
		21425	2567.5	26.75	20.09	6.66	≤13	PASS
	10	20800	2505	26.23	20.13	6.10	≤13	PASS
		21100	2535	26.73	19.97	6.76	≤13	PASS
		21400	2565	26.69	20.03	6.66	≤13	PASS
	15	20825	2507.5	26.42	20.10	6.32	≤13	PASS
		21100	2535	26.68	19.92	6.76	≤13	PASS
		21375	2562.5	26.76	20.04	6.72	≤13	PASS
	20	20850	2510	26.39	20.05	6.34	≤13	PASS
		21100	2535	26.52	19.87	6.65	≤13	PASS
		21350	2560	26.60	19.98	6.62	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	27.37	21.96	5.41	≤13	PASS
		23095	707.5	28.45	21.96	6.49	≤13	PASS
		23173	715.3	28.49	21.98	6.51	≤13	PASS



	3	23025	700.5	27.49	22.00	5.49	≤13	PASS
		23095	707.5	28.50	21.94	6.56	≤13	PASS
		23165	714.5	28.43	21.96	6.47	≤13	PASS
	5	23035	701.5	27.80	22.08	5.72	≤13	PASS
		23095	707.5	28.42	21.97	6.45	≤13	PASS
		23155	713.5	28.31	22.06	6.25	≤13	PASS
	10	23060	704	28.36	22.25	6.11	≤13	PASS
		23095	707.5	27.87	21.90	5.97	≤13	PASS
		23130	711	27.71	21.78	5.93	≤13	PASS
16QAM	1.4	23017	699.7	27.18	20.94	6.24	≤13	PASS
		23095	707.5	28.16	20.92	7.24	≤13	PASS
		23173	715.3	28.44	20.99	7.45	≤13	PASS
	3	23025	700.5	27.34	21.00	6.34	≤13	PASS
		23095	707.5	28.32	20.96	7.36	≤13	PASS
		23165	714.5	28.22	20.92	7.30	≤13	PASS
	5	23035	701.5	27.49	21.08	6.41	≤13	PASS
		23095	707.5	28.11	20.98	7.13	≤13	PASS
		23155	713.5	27.86	21.03	6.83	≤13	PASS
	10	23060	704	28.05	21.20	6.85	≤13	PASS
		23095	707.5	27.62	20.83	6.79	≤13	PASS
		23130	711	27.47	20.73	6.74	≤13	PASS
64QAM	1.4	23017	699.7	26.77	20.39	6.38	≤13	PASS
		23095	707.5	27.84	20.46	7.38	≤13	PASS
		23173	715.3	27.86	20.47	7.39	≤13	PASS
	3	23025	700.5	26.94	20.41	6.53	≤13	PASS
		23095	707.5	28.01	20.46	7.55	≤13	PASS
		23165	714.5	27.83	20.41	7.42	≤13	PASS
	5	23035	701.5	27.07	20.52	6.55	≤13	PASS
		23095	707.5	27.80	20.49	7.31	≤13	PASS
		23155	713.5	27.67	20.52	7.15	≤13	PASS
	10	23060	704	27.83	20.71	7.12	≤13	PASS
		23095	707.5	27.35	20.39	6.96	≤13	PASS
		23130	711	27.12	20.23	6.89	≤13	PASS

LTE Band 13								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	23205	779.5	27.55	22.04	5.51	≤13	PASS
		23230	782	27.90	22.11	5.79	≤13	PASS
		23255	784.5	27.91	22.04	5.87	≤13	PASS



	10	23230	782	27.89	22.13	5.76	≤13	PASS
16QAM	5	23205	779.5	27.35	21.03	6.32	≤13	PASS
		23230	782	27.58	21.10	6.48	≤13	PASS
		23255	784.5	27.67	21.06	6.61	≤13	PASS
	10	23230	782	27.61	21.11	6.50	≤13	PASS
64QAM	5	23205	779.5	26.77	20.49	6.28	≤13	PASS
		23230	782	26.92	20.54	6.38	≤13	PASS
		23255	784.5	27.10	20.54	6.56	≤13	PASS
	10	23230	782	27.06	20.55	6.51	≤13	PASS

LTE Band 17								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	23755	706.5	28.42	21.52	6.90	≤13	PASS
		23790	710	27.35	21.31	6.04	≤13	PASS
		23825	713.5	28.06	21.56	6.50	≤13	PASS
	10	23780	709	27.19	21.25	5.94	≤13	PASS
		23790	710	27.11	21.22	5.89	≤13	PASS
		23800	711	27.15	21.25	5.90	≤13	PASS
16QAM	5	23755	706.5	28.13	20.51	7.62	≤13	PASS
		23790	710	26.96	20.30	6.66	≤13	PASS
		23825	713.5	27.69	20.54	7.15	≤13	PASS
	10	23780	709	26.90	20.22	6.68	≤13	PASS
		23790	710	26.87	20.20	6.67	≤13	PASS
		23800	711	26.92	20.19	6.73	≤13	PASS
64QAM	5	23755	706.5	27.55	19.99	7.56	≤13	PASS
		23790	710	26.43	19.80	6.63	≤13	PASS
		23825	713.5	27.16	19.99	7.17	≤13	PASS
	10	23780	709	26.37	19.70	6.67	≤13	PASS
		23790	710	26.36	19.68	6.68	≤13	PASS
		23800	711	26.37	19.66	6.71	≤13	PASS



LTE Band 38								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	37775	2572.5	27.07	19.11	7.96	≤13	PASS
		38000	2595	26.77	18.47	8.30	≤13	PASS
		38225	2617.5	27.16	19.22	7.94	≤13	PASS
	10	37800	2575	26.88	17.62	9.26	≤13	PASS
		38000	2595	26.79	18.92	7.87	≤13	PASS
		38200	2615	27.01	17.68	9.33	≤13	PASS
	15	37825	2577.5	27.29	18.61	8.68	≤13	PASS
		38000	2595	27.01	17.07	9.94	≤13	PASS
		38175	2612.5	27.30	17.69	9.61	≤13	PASS
	20	37850	2580	26.91	17.62	9.29	≤13	PASS
		38000	2595	26.86	17.58	9.28	≤13	PASS
		38150	2610	27.06	18.40	8.66	≤13	PASS
16QAM	5	37775	2572.5	26.64	17.17	9.47	≤13	PASS
		38000	2595	26.41	16.41	10.00	≤13	PASS
		38225	2617.5	26.86	17.40	9.46	≤13	PASS
	10	37800	2575	26.66	17.11	9.55	≤13	PASS
		38000	2595	26.45	17.00	9.45	≤13	PASS
		38200	2615	26.81	17.03	9.78	≤13	PASS
	15	37825	2577.5	26.81	17.44	9.37	≤13	PASS
		38000	2595	26.66	17.05	9.61	≤13	PASS
		38175	2612.5	26.95	17.37	9.58	≤13	PASS
	20	37850	2580	26.66	17.34	9.32	≤13	PASS
		38000	2595	26.34	15.46	10.88	≤13	PASS
		38150	2610	26.75	17.28	9.47	≤13	PASS
64QAM	5	37775	2572.5	26.34	16.92	9.42	≤13	PASS
		38000	2595	26.25	16.64	9.61	≤13	PASS
		38225	2617.5	26.41	15.46	10.95	≤13	PASS
	10	37800	2575	26.41	17.02	9.39	≤13	PASS
		38000	2595	26.17	16.42	9.75	≤13	PASS
		38200	2615	26.52	16.55	9.97	≤13	PASS
	15	37825	2577.5	26.36	15.65	10.71	≤13	PASS



		38000	2595	26.28	15.47	10.81	≤13	PASS
		38175	2612.5	26.68	16.98	9.70	≤13	PASS
	20	37850	2580	26.19	16.00	10.19	≤13	PASS
		38000	2595	26.11	15.33	10.78	≤13	PASS
		38150	2610	26.20	15.57	10.63	≤13	PASS

LTE Band 40 Subset 1								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	38725	2307.5	26.66	19.21	8.08	≤13	PASS
		38750	2310	26.40	18.10	9.00	≤13	PASS
		38775	2312.5	26.70	18.09	9.15	≤13	PASS
	10	38750	2310	26.51	17.98	9.13	≤13	PASS
16QAM	5	38725	2307.5	26.35	15.87	10.92	≤13	PASS
		38750	2310	26.29	17.68	9.40	≤13	PASS
		38775	2312.5	26.37	16.23	10.65	≤13	PASS
	10	38750	2310	26.26	16.35	10.55	≤13	PASS
64QAM	5	38725	2307.5	25.58	17.45	9.06	≤13	PASS
		38750	2310	25.59	15.75	10.55	≤13	PASS
		38775	2312.5	25.45	16.57	9.91	≤13	PASS
	10	38750	2310	25.54	15.91	10.48	≤13	PASS

LTE Band 40 Subset 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	39175	2352.5	25.80	18.16	9.01	≤13	PASS
		39200	2355	26.08	17.62	9.57	≤13	PASS
		39225	2357.5	26.03	17.72	9.49	≤13	PASS
	10	39200	2355	25.99	19.21	8.03	≤13	PASS
16QAM	5	39175	2352.5	25.81	17.91	9.20	≤13	PASS
		39200	2355	25.83	17.58	9.47	≤13	PASS
		39225	2357.5	25.84	17.28	9.75	≤13	PASS
	10	39200	2355	25.90	17.89	9.26	≤13	PASS
64QAM	5	39175	2352.5	24.89	17.31	9.36	≤13	PASS
		39200	2355	24.89	17.22	9.41	≤13	PASS



		39225	2357.5	24.78	17.20	9.38	≤13	PASS
	10	39200	2355	24.82	17.40	9.32	≤13	PASS

LTE Band 66								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	27.53	21.64	5.89	≤13	PASS
		132322	1745	27.32	21.61	5.71	≤13	PASS
		132665	1779.3	27.62	21.68	5.94	≤13	PASS
	3	131987	1711.5	27.55	21.60	5.95	≤13	PASS
		132322	1745	27.22	21.54	5.68	≤13	PASS
		132657	1778.5	27.66	21.65	6.01	≤13	PASS
	5	131997	1712.5	27.55	21.66	5.89	≤13	PASS
		132322	1745	27.32	21.56	5.76	≤13	PASS
		132647	1777.5	27.79	21.69	6.10	≤13	PASS
	10	132022	1715	27.53	21.69	5.84	≤13	PASS
		132322	1745	27.41	21.65	5.76	≤13	PASS
		132622	1775	27.67	21.75	5.92	≤13	PASS
	15	132047	1717.5	27.81	21.61	6.20	≤13	PASS
		132322	1745	27.74	21.56	6.18	≤13	PASS
		132597	1772.5	27.93	21.62	6.31	≤13	PASS
	20	132072	1720	27.49	21.63	5.86	≤13	PASS
		132322	1745	27.43	21.57	5.86	≤13	PASS
		132572	1770	27.56	21.68	5.88	≤13	PASS
16QAM	1.4	131979	1710.7	27.22	20.62	6.60	≤13	PASS
		132322	1745	26.92	20.58	6.34	≤13	PASS
		132665	1779.3	27.50	20.66	6.84	≤13	PASS
	3	131987	1711.5	27.36	20.63	6.73	≤13	PASS
		132322	1745	27.07	20.54	6.53	≤13	PASS
		132657	1778.5	27.50	20.67	6.83	≤13	PASS
	5	131997	1712.5	27.23	20.66	6.57	≤13	PASS
		132322	1745	27.06	20.57	6.49	≤13	PASS
		132647	1777.5	27.38	20.67	6.71	≤13	PASS
	10	132022	1715	27.16	20.63	6.53	≤13	PASS
		132322	1745	27.18	20.63	6.55	≤13	PASS
		132622	1775	27.46	20.74	6.72	≤13	PASS
	15	132047	1717.5	27.25	20.62	6.63	≤13	PASS
		132322	1745	27.15	20.53	6.62	≤13	PASS
		132597	1772.5	27.41	20.65	6.76	≤13	PASS
	20	132072	1720	27.19	20.60	6.59	≤13	PASS



64QAM		132322	1745	27.14	20.58	6.56	≤13	PASS
		132572	1770	27.31	20.65	6.66	≤13	PASS
	1.4	131979	1710.7	26.76	20.07	6.69	≤13	PASS
		132322	1745	26.46	20.05	6.41	≤13	PASS
		132665	1779.3	26.68	19.95	6.73	≤13	PASS
	3	131987	1711.5	26.85	20.09	6.76	≤13	PASS
		132322	1745	26.48	19.97	6.51	≤13	PASS
		132657	1778.5	26.66	19.92	6.74	≤13	PASS
	5	131997	1712.5	26.68	20.08	6.60	≤13	PASS
		132322	1745	26.48	20.03	6.45	≤13	PASS
		132647	1777.5	26.67	19.97	6.70	≤13	PASS
	10	132022	1715	26.64	20.04	6.60	≤13	PASS
		132322	1745	26.55	20.03	6.52	≤13	PASS
		132622	1775	26.65	20.00	6.65	≤13	PASS
	15	132047	1717.5	26.63	20.01	6.62	≤13	PASS
		132322	1745	26.60	19.97	6.63	≤13	PASS
		132597	1772.5	26.70	19.96	6.74	≤13	PASS
	20	132072	1720	26.59	20.02	6.57	≤13	PASS
		132322	1745	26.53	19.98	6.55	≤13	PASS
		132572	1770	26.58	19.92	6.66	≤13	PASS

Bandwidth	PCC		SCC1		Modulation	Peak-to-Average Power Ratio (PAPR)		
	Channel	Frequency (MHz)	Channel	Frequency (MHz)		Peak (dBm)	Avg (dBm)	PAPR (dB)
CA_7C_10MHz+20MHz_QPSK	21006	2525.6	21150	2540	QPSK	25.33	18.67	6.66
CA_7C_10MHz+20MHz_16QAM	21006	2525.6	21150	2540	16QAM	24.97	17.66	7.31
CA_7C_10MHz+20MHz_64QAM	21006	2525.6	21150	2540	64QAM	24.44	17.15	7.29
CA_7C_20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	QPSK	25.20	18.51	6.69
CA_7C_20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	16QAM	24.80	17.53	7.27
CA_7C_20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	64QAM	24.20	16.94	7.26
CA_7C_15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	QPSK	25.25	18.59	6.66
CA_7C_15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	16QAM	24.99	17.67	7.32
CA_7C_15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	64QAM	24.46	17.16	7.30
CA_7C_15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	QPSK	25.45	18.73	6.72
CA_7C_15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	16QAM	24.91	17.64	7.27
CA_7C_15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	64QAM	24.41	17.14	7.27
CA_7C_20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	QPSK	25.24	18.57	6.67
CA_7C_20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	16QAM	24.86	17.62	7.24
CA_7C_20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	64QAM	24.38	17.12	7.26
CA_7C_20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	QPSK	25.46	18.68	6.78



CA_7C_20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	16QAM	24.97	17.68	7.29
CA_41C_20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	64QAM	24.49	17.20	7.29

NR n7								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	502000	2510	27.63	22.42	5.21	≤13	PASS
		507000	2535	26.63	22.27	4.36	≤13	PASS
		512000	2560	26.75	21.17	5.58	≤13	PASS
	QPSK	502000	2510	27.60	22.41	5.19	≤13	PASS
		507000	2535	26.60	22.24	4.36	≤13	PASS
		512000	2560	26.71	21.12	5.59	≤13	PASS
	16QAM	502000	2510	27.39	21.40	5.99	≤13	PASS
		507000	2535	27.09	20.73	6.36	≤13	PASS
		512000	2560	26.48	20.13	6.35	≤13	PASS
	64QAM	502000	2510	27.09	20.90	6.19	≤13	PASS
		507000	2535	27.13	20.78	6.35	≤13	PASS
		512000	2560	25.96	19.64	6.32	≤13	PASS
	256QAM	502000	2510	25.38	18.86	6.52	≤13	PASS
		507000	2535	26.70	20.25	6.45	≤13	PASS
		512000	2560	24.18	17.61	6.57	≤13	PASS

DC_28A (Subset 1)-n7A								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	502000	2510	27.32	23.36	3.96	≤13	PASS
		507000	2535	27.92	22.62	5.30	≤13	PASS
		512000	2560	26.57	22.34	4.23	≤13	PASS
	QPSK	502000	2510	27.34	23.38	3.96	≤13	PASS
		507000	2535	27.92	22.62	5.30	≤13	PASS
		512000	2560	26.55	22.35	4.20	≤13	PASS
	16QAM	502000	2510	27.73	21.92	5.81	≤13	PASS
		507000	2535	27.71	21.62	6.09	≤13	PASS
		512000	2560	26.85	20.82	6.03	≤13	PASS
	64QAM	502000	2510	27.72	21.89	5.83	≤13	PASS
		507000	2535	27.38	21.15	6.23	≤13	PASS
		512000	2560	26.88	20.85	6.03	≤13	PASS
	256QAM	502000	2510	27.50	21.37	6.13	≤13	PASS
		507000	2535	25.64	19.09	6.55	≤13	PASS
		512000	2560	26.61	20.31	6.30	≤13	PASS



NR n40 Subset 1								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak	Avg	PAPR	Limit (dB)	Conclusion
10M	BPSK	462000	2310	27.61	22.21	5.40	≤13	PASS
	QPSK	462000	2310	27.60	22.21	5.39	≤13	PASS
	16QAM	462000	2310	27.52	21.34	6.18	≤13	PASS
	64QAM	462000	2310	27.10	20.80	6.30	≤13	PASS
	256QAM	462000	2310	27.46	20.78	6.68	≤13	PASS
	BPSK	462000	2310	27.05	22.75	4.30	≤13	PASS
	QPSK	462000	2310	27.06	22.76	4.30	≤13	PASS
	16QAM	462000	2310	27.62	21.40	6.22	≤13	PASS
	64QAM	462000	2310	27.61	21.38	6.23	≤13	PASS
	256QAM	462000	2310	27.09	20.90	6.19	≤13	PASS

NR n40 Subset 2								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak	Avg	PAPR	Limit (dB)	Conclusion
10M	BPSK	471000	2355	27.05	22.75	4.30	≤13	PASS
	QPSK	471000	2355	27.06	22.76	4.30	≤13	PASS
	16QAM	471000	2355	27.62	21.40	6.22	≤13	PASS
	64QAM	471000	2355	27.61	21.38	6.23	≤13	PASS
	256QAM	471000	2355	27.09	20.90	6.19	≤13	PASS

NR n66								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	344000	1720	24.74	19.18	5.56	≤13	PASS
		349000	1745	24.24	19.26	4.98	≤13	PASS
		354000	1770	23.96	18.29	5.67	≤13	PASS
	QPSK	344000	1720	24.75	19.19	5.56	≤13	PASS
		349000	1745	24.26	19.27	4.99	≤13	PASS
		354000	1770	23.95	18.29	5.66	≤13	PASS
	16QAM	344000	1720	24.58	18.20	6.38	≤13	PASS
		349000	1745	24.18	17.78	6.40	≤13	PASS
		354000	1770	23.74	17.31	6.43	≤13	PASS
	64QAM	344000	1720	24.22	17.66	6.56	≤13	PASS
		349000	1745	24.16	17.76	6.40	≤13	PASS
		354000	1770	23.35	16.76	6.59	≤13	PASS
	256QAM	344000	1720	22.43	15.76	6.67	≤13	PASS
		349000	1745	23.81	17.29	6.52	≤13	PASS
		354000	1770	21.55	14.86	6.69	≤13	PASS



DC_2A-n66A

Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	Band5-10MHz-836.5 MHz-QPSK-1#0	P1/2 BPSK	344000	1720	24.58	19.06	5.52	≤13	PASS
			349000	1745	24.21	19.23	4.98	≤13	PASS
			354000	1770	23.69	18.08	5.61	≤13	PASS
		QPSK	344000	1720	24.59	19.07	5.52	≤13	PASS
			349000	1745	24.20	19.22	4.98	≤13	PASS
			354000	1770	23.67	18.06	5.61	≤13	PASS
		16QAM	344000	1720	24.45	18.08	6.37	≤13	PASS
			349000	1745	24.22	17.76	6.46	≤13	PASS
			354000	1770	23.55	17.10	6.45	≤13	PASS
		64QAM	344000	1720	24.11	17.54	6.57	≤13	PASS
			349000	1745	24.15	17.72	6.43	≤13	PASS
			354000	1770	23.15	16.55	6.60	≤13	PASS
		256QAM	344000	1720	22.33	15.61	6.72	≤13	PASS
			349000	1745	23.85	17.27	6.58	≤13	PASS
			354000	1770	21.46	14.67	6.79	≤13	PASS



NR n78 Subset 1								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	/	/	/	/	/	≤13	PASS
		633334	3500	29.30	23.89	5.41	≤13	PASS
		/	/	/	/	/	≤13	PASS
	QPSK	/	/	/	/	/	≤13	PASS
		633334	3500	29.27	23.81	5.46	≤13	PASS
		/	/	/	/	/	≤13	PASS
	16QAM	/	/	/	/	/	≤13	PASS
		633334	3500	28.96	22.77	6.19	≤13	PASS
		/	/	/	/	/	≤13	PASS
	64QAM	/	/	/	/	/	≤13	PASS
		633334	3500	29.00	22.79	6.21	≤13	PASS
		/	/	/	/	/	≤13	PASS
	256QAM	/	/	/	/	/	≤13	PASS
		633334	3500	28.66	22.32	6.34	≤13	PASS
		/	/	/	/	/	≤13	PASS

DC_5A-n78A (Subset 1)								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
100M	P1/2 BPSK	/	/	/	/	/	≤13	PASS
		633334	3500	26.35	20.71	5.64	≤13	PASS
		/	/	/	/	/	≤13	PASS
	QPSK	/	/	/	/	/	≤13	PASS
		633334	3500	26.31	20.69	5.62	≤13	PASS
		/	/	/	/	/	≤13	PASS
	16QAM	/	/	/	/	/	≤13	PASS
		633334	3500	26.01	19.68	6.33	≤13	PASS
		/	/	/	/	/	≤13	PASS
	64QAM	/	/	/	/	/	≤13	PASS
		633334	3500	25.68	19.16	6.52	≤13	PASS
		/	/	/	/	/	≤13	PASS
	256QAM	/	/	/	/	/	≤13	PASS
		633334	3500	23.70	17.15	6.55	≤13	PASS
		/	/	/	/	/	≤13	PASS



6.5 Frequency Stability

WCDMA Band IV						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25℃)	Normal	14.29	10.40	0.00825	0.00600	PASS
Extreme (50℃)		8.38	15.72	0.00484	0.00907	PASS
Extreme (40℃)		9.18	4.28	0.00530	0.00247	PASS
Extreme (30℃)		7.08	1.98	0.00409	0.00114	PASS
Extreme (20℃)		4.53	11.88	0.00261	0.00686	PASS
Extreme (10℃)		10.90	2.91	0.00629	0.00168	PASS
Extreme (0℃)		14.91	3.43	0.00861	0.00198	PASS
Extreme (-10℃)		15.70	1.19	0.00906	0.00069	PASS
Extreme (-20℃)		4.52	9.97	0.00261	0.00576	PASS
Extreme (-30℃)		7.87	6.21	0.00454	0.00359	PASS
25℃	LV	15.24	17.29	0.00879	0.00998	PASS
	HV	9.94	2.31	0.00574	0.00133	PASS

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.04	8.88	14.53	0.00811	0.00513	0.00839	PASS
Extreme (50℃)		8.51	17.51	11.50	0.00491	0.01010	0.00664	PASS
Extreme (40℃)		7.82	8.20	16.31	0.00451	0.00473	0.00942	PASS
Extreme (30℃)		17.42	8.50	16.87	0.01005	0.00490	0.00974	PASS
Extreme (20℃)		15.77	10.60	17.59	0.00910	0.00612	0.01015	PASS
Extreme (10℃)		12.37	11.36	12.49	0.00714	0.00656	0.00721	PASS
Extreme (0℃)		4.61	7.06	10.40	0.00266	0.00407	0.00600	PASS
Extreme (-10℃)		12.66	10.17	7.11	0.00731	0.00587	0.00411	PASS
Extreme (-20℃)		6.03	10.01	8.42	0.00348	0.00578	0.00486	PASS
Extreme (-30℃)		12.76	3.48	8.47	0.00736	0.00201	0.00489	PASS
25℃	LV	9.78	13.89	11.33	0.00565	0.00802	0.00654	PASS
	HV	3.57	4.29	14.25	0.00206	0.00248	0.00823	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							



Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	4.73	8.43	6.63	0.00273	0.00487	0.00382	PASS
Extreme (50℃)		4.52	13.91	2.39	0.00261	0.00803	0.00138	PASS
Extreme (40℃)		14.79	10.69	5.66	0.00854	0.00617	0.00326	PASS
Extreme (30℃)		8.45	2.56	6.13	0.00488	0.00148	0.00354	PASS
Extreme (20℃)		8.64	7.31	5.44	0.00499	0.00422	0.00314	PASS
Extreme (10℃)		13.54	10.37	17.12	0.00782	0.00598	0.00988	PASS
Extreme (0℃)		4.54	14.46	9.58	0.00262	0.00835	0.00553	PASS
Extreme (-10℃)		16.96	1.95	11.93	0.00979	0.00113	0.00688	PASS
Extreme (-20℃)		13.73	13.51	7.15	0.00793	0.00780	0.00413	PASS
Extreme (-30℃)		12.93	11.64	10.42	0.00746	0.00672	0.00602	PASS
25℃	LV	3.78	11.58	3.84	0.00218	0.00668	0.00222	PASS
	HV	2.38	17.13	4.40	0.00138	0.00988	0.00254	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.42	8.57	15.69	0.00371	0.00495	0.00906	PASS
Extreme (50℃)		3.71	9.89	3.41	0.00214	0.00571	0.00197	PASS
Extreme (40℃)		4.05	17.48	4.35	0.00234	0.01009	0.00251	PASS
Extreme (30℃)		14.29	14.30	7.87	0.00825	0.00825	0.00454	PASS
Extreme (20℃)		3.32	13.04	10.65	0.00192	0.00753	0.00615	PASS
Extreme (10℃)		5.93	6.75	12.79	0.00342	0.00390	0.00738	PASS
Extreme (0℃)		13.33	12.79	9.48	0.00769	0.00738	0.00547	PASS
Extreme (-10℃)		7.49	6.67	6.70	0.00433	0.00385	0.00387	PASS
Extreme (-20℃)		11.28	13.75	4.33	0.00651	0.00794	0.00250	PASS
Extreme (-30℃)		12.18	4.36	16.65	0.00703	0.00252	0.00961	PASS
25℃	LV	16.47	6.15	16.35	0.00950	0.00355	0.00944	PASS
	HV	4.26	10.23	6.52	0.00246	0.00591	0.00376	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.60	17.43	14.44	0.00208	0.01006	0.00834	PASS
Extreme (50℃)		9.40	15.97	9.23	0.00543	0.00922	0.00533	PASS
Extreme (40℃)		14.20	15.85	7.63	0.00820	0.00915	0.00440	PASS
Extreme (30℃)		3.73	6.28	11.39	0.00215	0.00363	0.00657	PASS
Extreme (20℃)		10.40	8.42	11.37	0.00600	0.00486	0.00656	PASS
Extreme (10℃)		14.33	4.37	8.60	0.00827	0.00252	0.00496	PASS
Extreme (0℃)		13.44	2.96	10.81	0.00776	0.00171	0.00624	PASS
Extreme (-10℃)		9.04	14.31	2.61	0.00522	0.00826	0.00151	PASS



Extreme (-20℃)		8.82	8.98	6.41	0.00509	0.00518	0.00370	PASS
Extreme (-30℃)		15.74	16.10	14.02	0.00908	0.00929	0.00809	PASS
25℃	LV	11.71	8.38	9.03	0.00676	0.00484	0.00521	PASS
	HV	14.91	2.42	4.62	0.00860	0.00140	0.00266	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	15.48	6.91	14.58	0.00893	0.00399	0.00842	PASS
Extreme (50℃)		6.95	3.65	11.20	0.00401	0.00210	0.00647	PASS
Extreme (40℃)		5.52	4.66	3.11	0.00319	0.00269	0.00179	PASS
Extreme (30℃)		17.82	7.12	11.27	0.01029	0.00411	0.00650	PASS
Extreme (20℃)		4.24	14.43	14.24	0.00245	0.00833	0.00822	PASS
Extreme (10℃)		9.60	3.76	16.23	0.00554	0.00217	0.00937	PASS
Extreme (0℃)		14.36	8.25	15.65	0.00829	0.00476	0.00903	PASS
Extreme (-10℃)		1.35	14.90	13.56	0.00078	0.00860	0.00783	PASS
Extreme (-20℃)		11.18	13.82	16.42	0.00645	0.00798	0.00948	PASS
Extreme (-30℃)		9.26	9.92	12.29	0.00534	0.00572	0.00709	PASS
25℃	LV	3.71	8.14	17.28	0.00214	0.00470	0.00998	PASS
	HV	14.97	17.95	6.37	0.00864	0.01036	0.00368	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	2.54	14.33	6.10	0.00146	0.00827	0.00352	PASS
Extreme (50℃)		14.78	9.21	6.04	0.00853	0.00531	0.00349	PASS
Extreme (40℃)		1.09	10.76	8.16	0.00063	0.00621	0.00471	PASS
Extreme (30℃)		10.13	8.41	11.62	0.00584	0.00485	0.00671	PASS
Extreme (20℃)		10.70	15.70	4.54	0.00617	0.00906	0.00262	PASS
Extreme (10℃)		14.00	5.35	2.55	0.00808	0.00309	0.00147	PASS
Extreme (0℃)		10.84	4.12	11.75	0.00626	0.00238	0.00678	PASS
Extreme (-10℃)		16.16	1.06	7.37	0.00933	0.00061	0.00426	PASS
Extreme (-20℃)		11.05	6.76	13.92	0.00638	0.00390	0.00804	PASS
Extreme (-30℃)		11.74	12.46	10.58	0.00678	0.00719	0.00610	PASS
25℃	LV	14.04	11.11	17.65	0.00810	0.00641	0.01019	PASS
	HV	11.85	8.71	12.40	0.00684	0.00503	0.00716	PASS



LTE Band 7								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.53	8.91	6.05	0.00257	0.00351	0.00239	PASS
Extreme (50℃)		12.23	11.06	7.46	0.00482	0.00436	0.00294	PASS
Extreme (40℃)		14.02	16.67	14.58	0.00553	0.00658	0.00575	PASS
Extreme (30℃)		7.53	14.59	14.10	0.00297	0.00576	0.00556	PASS
Extreme (20℃)		15.41	3.31	16.06	0.00608	0.00131	0.00634	PASS
Extreme (10℃)		16.99	5.53	3.72	0.00670	0.00218	0.00147	PASS
Extreme (0℃)		14.72	3.84	15.91	0.00581	0.00152	0.00628	PASS
Extreme (-10℃)		9.18	10.57	3.61	0.00362	0.00417	0.00142	PASS
Extreme (-20℃)		8.94	5.39	6.38	0.00353	0.00212	0.00252	PASS
Extreme (-30℃)		7.58	2.98	11.96	0.00299	0.00117	0.00472	PASS
25℃	LV	16.43	3.05	13.39	0.00648	0.00120	0.00528	PASS
	HV	15.65	11.67	12.33	0.00617	0.00461	0.00486	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.84	3.40	13.07	0.00073	0.00134	0.00516	PASS
Extreme (50℃)		7.00	10.49	5.95	0.00276	0.00414	0.00235	PASS
Extreme (40℃)		7.00	3.12	15.41	0.00276	0.00123	0.00608	PASS
Extreme (30℃)		9.41	10.55	9.99	0.00371	0.00416	0.00394	PASS
Extreme (20℃)		16.89	16.29	6.82	0.00666	0.00643	0.00269	PASS
Extreme (10℃)		13.60	3.15	12.26	0.00537	0.00124	0.00484	PASS
Extreme (0℃)		10.70	8.28	1.91	0.00422	0.00327	0.00075	PASS
Extreme (-10℃)		14.68	7.75	17.19	0.00579	0.00306	0.00678	PASS
Extreme (-20℃)		16.87	13.59	7.12	0.00665	0.00536	0.00281	PASS
Extreme (-30℃)		14.54	13.19	17.95	0.00573	0.00520	0.00708	PASS
25℃	LV	13.82	8.21	14.77	0.00545	0.00324	0.00583	PASS
	HV	12.23	5.83	12.78	0.00482	0.00230	0.00504	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.32	12.15	3.29	0.00486	0.00479	0.00130	PASS
Extreme (50℃)		3.33	8.79	15.61	0.00131	0.00347	0.00616	PASS
Extreme (40℃)		5.42	4.56	7.99	0.00214	0.00180	0.00315	PASS



Extreme (30℃)		5.18	4.76	4.87	0.00205	0.00188	0.00192	PASS
Extreme (20℃)		5.76	14.18	13.26	0.00227	0.00559	0.00523	PASS
Extreme (10℃)		1.77	8.48	5.32	0.00070	0.00334	0.00210	PASS
Extreme (0℃)		4.75	6.25	7.24	0.00187	0.00246	0.00286	PASS
Extreme (-10℃)		14.59	10.29	10.71	0.00575	0.00406	0.00423	PASS
Extreme (-20℃)		17.11	8.57	8.48	0.00675	0.00338	0.00335	PASS
Extreme (-30℃)		13.51	6.23	13.85	0.00533	0.00246	0.00546	PASS
25℃	LV	11.81	14.68	17.70	0.00466	0.00579	0.00698	PASS
	HV	4.57	10.01	8.76	0.00180	0.00395	0.00346	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.04	10.67	3.93	0.00475	0.00421	0.00155	PASS
Extreme (50℃)		1.57	5.92	12.17	0.00062	0.00233	0.00480	PASS
Extreme (40℃)		13.86	6.60	3.81	0.00547	0.00261	0.00150	PASS
Extreme (30℃)		9.69	1.94	12.23	0.00382	0.00077	0.00482	PASS
Extreme (20℃)		10.41	13.21	16.28	0.00410	0.00521	0.00642	PASS
Extreme (10℃)		7.07	15.08	1.71	0.00279	0.00595	0.00068	PASS
Extreme (0℃)		2.92	8.65	7.61	0.00115	0.00341	0.00300	PASS
Extreme (-10℃)		4.05	9.33	1.67	0.00160	0.00368	0.00066	PASS
Extreme (-20℃)		7.04	1.00	4.37	0.00278	0.00040	0.00172	PASS
Extreme (-30℃)		10.56	13.97	5.40	0.00417	0.00551	0.00213	PASS
25℃	LV	1.65	5.18	8.17	0.00065	0.00204	0.00322	PASS
	HV	1.10	17.21	6.68	0.00043	0.00679	0.00264	PASS

LTE Band 12								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.55	17.81	17.16	0.02481	0.02517	0.02425	PASS
Extreme (50℃)		13.17	10.84	5.27	0.01862	0.01532	0.00745	PASS
Extreme (40℃)		10.67	8.57	16.50	0.01508	0.01212	0.02333	PASS
Extreme (30℃)		8.74	2.89	12.59	0.01235	0.00409	0.01780	PASS
Extreme (20℃)		2.34	7.00	1.61	0.00331	0.00990	0.00227	PASS
Extreme (10℃)		4.33	5.13	14.42	0.00612	0.00726	0.02038	PASS
Extreme (0℃)		9.65	8.68	14.09	0.01365	0.01227	0.01992	PASS
Extreme (-10℃)		9.14	16.65	14.79	0.01291	0.02353	0.02090	PASS
Extreme (-20℃)		10.70	9.24	14.94	0.01512	0.01306	0.02111	PASS
Extreme (-30℃)		5.00	6.94	2.26	0.00707	0.00982	0.00319	PASS



25℃	LV	16.50	6.25	7.95	0.02332	0.00884	0.01124	PASS
	HV	16.55	2.97	11.12	0.02339	0.00420	0.01572	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.94	2.03	9.86	0.01264	0.00288	0.01393	PASS
Extreme (50℃)		11.81	11.77	5.08	0.01670	0.01663	0.00718	PASS
Extreme (40℃)		8.21	7.50	11.03	0.01161	0.01061	0.01559	PASS
Extreme (30℃)		17.71	7.27	3.11	0.02503	0.01028	0.00439	PASS
Extreme (20℃)		6.13	4.45	1.47	0.00867	0.00630	0.00208	PASS
Extreme (10℃)		10.13	2.55	8.83	0.01432	0.00361	0.01248	PASS
Extreme (0℃)		3.04	2.62	10.95	0.00429	0.00370	0.01548	PASS
Extreme (-10℃)		2.52	11.25	16.78	0.00357	0.01590	0.02372	PASS
Extreme (-20℃)		17.08	9.84	5.60	0.02414	0.01391	0.00792	PASS
Extreme (-30℃)		6.63	2.60	13.66	0.00937	0.00367	0.01931	PASS
25℃	LV	15.09	2.65	5.28	0.02133	0.00375	0.00747	PASS
	HV	12.14	13.43	8.96	0.01716	0.01899	0.01266	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.10	15.57	9.23	0.01145	0.02201	0.01305	PASS
Extreme (50℃)		5.80	8.45	6.76	0.00820	0.01195	0.00955	PASS
Extreme (40℃)		17.58	5.06	15.00	0.02484	0.00715	0.02120	PASS
Extreme (30℃)		7.12	9.85	10.87	0.01007	0.01392	0.01537	PASS
Extreme (20℃)		4.89	13.53	8.52	0.00691	0.01913	0.01205	PASS
Extreme (10℃)		4.45	1.15	16.55	0.00629	0.00163	0.02339	PASS
Extreme (0℃)		2.83	10.07	5.92	0.00400	0.01423	0.00837	PASS
Extreme (-10℃)		6.39	9.85	11.74	0.00903	0.01392	0.01660	PASS
Extreme (-20℃)		13.69	16.49	7.47	0.01935	0.02331	0.01056	PASS
Extreme (-30℃)		13.79	8.12	13.09	0.01949	0.01147	0.01850	PASS
25℃	LV	13.68	6.95	1.36	0.01934	0.00982	0.00192	PASS
	HV	13.97	5.43	14.29	0.01975	0.00768	0.02020	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.69	10.70	4.64	0.00804	0.01512	0.00655	PASS
Extreme (50℃)		7.09	16.13	10.33	0.01002	0.02280	0.01460	PASS
Extreme (40℃)		16.26	5.76	4.65	0.02298	0.00814	0.00657	PASS



Extreme (30℃)		9.32	5.92	8.94	0.01318	0.00837	0.01263	PASS
Extreme (20℃)		2.00	12.51	7.92	0.00283	0.01768	0.01120	PASS
Extreme (10℃)		8.17	2.88	16.95	0.01155	0.00407	0.02396	PASS
Extreme (0℃)		18.00	1.86	13.96	0.02544	0.00263	0.01973	PASS
Extreme (-10℃)		3.88	16.98	12.31	0.00548	0.02400	0.01740	PASS
Extreme (-20℃)		1.88	5.51	16.03	0.00265	0.00778	0.02266	PASS
Extreme (-30℃)		5.34	10.99	1.11	0.00754	0.01553	0.00157	PASS
25℃	LV	14.42	16.95	7.41	0.02038	0.02396	0.01048	PASS
	HV	8.91	12.56	1.65	0.01260	0.01775	0.00233	PASS

LTE Band 13								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.25	3.51	7.69	0.01567	0.00449	0.00983	
Extreme (50℃)		17.52	5.17	4.50	0.02240	0.00661	0.00576	
Extreme (40℃)		9.84	15.43	7.27	0.01258	0.01973	0.00929	
Extreme (30℃)		2.28	8.03	14.89	0.00292	0.01026	0.01904	
Extreme (20℃)		15.87	5.91	1.94	0.02029	0.00756	0.00249	
Extreme (10℃)		10.32	4.34	12.47	0.01319	0.00554	0.01595	
Extreme (0℃)		5.54	11.16	17.19	0.00708	0.01427	0.02198	
Extreme (-10℃)		11.32	7.94	8.16	0.01448	0.01016	0.01044	
Extreme (-20℃)		11.76	3.13	14.65	0.01503	0.00401	0.01874	
Extreme (-30℃)		16.55	10.47	9.86	0.02117	0.01339	0.01261	
25℃	LV	8.72	11.34	17.72	0.01116	0.01451	0.02266	PASS
	HV	8.47	12.17	7.31	0.01083	0.01557	0.00935	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.72	13.20	7.54	0.01882	0.01687	0.00964	
Extreme (50℃)		16.62	6.44	7.58	0.02125	0.00824	0.00969	
Extreme (40℃)		11.45	14.83	3.33	0.01464	0.01896	0.00426	
Extreme (30℃)		9.36	11.45	2.38	0.01197	0.01464	0.00304	
Extreme (20℃)		17.57	15.42	9.22	0.02246	0.01972	0.01179	
Extreme (10℃)		4.69	10.22	14.17	0.00600	0.01306	0.01812	
Extreme (0℃)		12.02	3.98	7.33	0.01537	0.00509	0.00937	
Extreme (-10℃)		8.80	15.81	3.62	0.01125	0.02022	0.00463	
Extreme (-20℃)		11.74	4.69	14.78	0.01501	0.00600	0.01890	
Extreme (-30℃)		6.14	9.66	15.33	0.00785	0.01236	0.01961	



25℃	LV	17.21	3.92	4.06	0.02200	0.00501	0.00519	PASS
	HV	8.65	12.33	12.07	0.01106	0.01577	0.01543	PASS

LTE Band 17								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.21	11.52	1.61	0.00277	0.00613	0.00085	PASS
Extreme (50℃)		3.21	3.69	11.65	0.00171	0.00196	0.00620	PASS
Extreme (40℃)		13.86	14.03	12.21	0.00737	0.00746	0.00649	PASS
Extreme (30℃)		6.47	14.63	11.64	0.00344	0.00778	0.00619	PASS
Extreme (20℃)		12.69	15.05	14.96	0.00675	0.00800	0.00796	PASS
Extreme (10℃)		12.23	11.46	13.53	0.00651	0.00610	0.00720	PASS
Extreme (0℃)		9.09	5.78	13.89	0.00483	0.00308	0.00739	PASS
Extreme (-10℃)		4.69	3.73	8.37	0.00249	0.00198	0.00445	PASS
Extreme (-20℃)		9.50	7.28	9.42	0.00505	0.00387	0.00501	PASS
Extreme (-30℃)		5.42	9.79	5.20	0.00288	0.00521	0.00276	PASS
25℃	LV	9.58	9.71	15.70	0.00510	0.00516	0.00835	PASS
	HV	8.08	8.90	8.04	0.00430	0.00474	0.00428	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	2.07	2.88	13.41	0.00110	0.00153	0.00713	PASS
Extreme (50℃)		12.08	1.12	4.68	0.00643	0.00060	0.00249	PASS
Extreme (40℃)		15.50	15.40	4.53	0.00825	0.00819	0.00241	PASS
Extreme (30℃)		2.10	8.06	14.72	0.00112	0.00429	0.00783	PASS
Extreme (20℃)		8.72	8.25	12.08	0.00464	0.00439	0.00643	PASS
Extreme (10℃)		4.42	14.74	10.91	0.00235	0.00784	0.00580	PASS
Extreme (0℃)		4.25	3.78	8.32	0.00226	0.00201	0.00442	PASS
Extreme (-10℃)		11.40	17.99	14.81	0.00606	0.00957	0.00788	PASS
Extreme (-20℃)		10.66	5.86	3.77	0.00567	0.00311	0.00201	PASS
Extreme (-30℃)		7.35	7.96	8.98	0.00391	0.00423	0.00478	PASS
25℃	LV	9.08	16.20	1.31	0.00483	0.00862	0.00070	PASS
	HV	15.37	1.35	10.57	0.00817	0.00072	0.00562	PASS



LTE Band 38								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.95	15.94	5.46	0.00345	0.00614	0.00210	PASS
Extreme (50℃)		4.40	3.72	15.88	0.00170	0.00144	0.00612	PASS
Extreme (40℃)		11.86	1.23	5.77	0.00457	0.00047	0.00222	PASS
Extreme (30℃)		17.49	5.51	8.36	0.00674	0.00212	0.00322	PASS
Extreme (20℃)		4.56	4.40	1.09	0.00176	0.00170	0.00042	PASS
Extreme (10℃)		11.45	11.18	14.37	0.00441	0.00431	0.00554	PASS
Extreme (0℃)		9.76	4.47	10.67	0.00376	0.00172	0.00411	PASS
Extreme (-10℃)		12.04	13.75	7.75	0.00464	0.00530	0.00299	PASS
Extreme (-20℃)		16.40	5.86	14.87	0.00632	0.00226	0.00573	PASS
Extreme (-30℃)		14.75	13.80	16.80	0.00568	0.00532	0.00647	PASS
25℃	LV	9.11	7.56	9.36	0.00351	0.00291	0.00361	PASS
	HV	8.46	2.39	15.54	0.00326	0.00092	0.00599	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.22	13.91	2.14	0.00664	0.00536	0.00083	PASS
Extreme (50℃)		15.24	6.36	7.11	0.00587	0.00245	0.00274	PASS
Extreme (40℃)		7.01	14.08	11.35	0.00270	0.00543	0.00437	PASS
Extreme (30℃)		8.94	5.44	2.48	0.00344	0.00209	0.00096	PASS
Extreme (20℃)		8.52	8.09	14.57	0.00328	0.00312	0.00562	PASS
Extreme (10℃)		7.62	15.82	6.16	0.00294	0.00610	0.00237	PASS
Extreme (0℃)		9.23	15.28	6.64	0.00356	0.00589	0.00256	PASS
Extreme (-10℃)		8.37	1.83	12.32	0.00322	0.00070	0.00475	PASS
Extreme (-20℃)		6.52	3.97	2.78	0.00251	0.00153	0.00107	PASS
Extreme (-30℃)		8.42	10.85	4.57	0.00324	0.00418	0.00176	PASS
25℃	LV	7.52	8.78	10.80	0.00290	0.00338	0.00416	PASS
	HV	15.11	7.32	15.75	0.00582	0.00282	0.00607	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.53	11.58	10.10	0.00329	0.00446	0.00389	PASS
Extreme (50℃)		2.93	7.25	8.85	0.00113	0.00279	0.00341	PASS
Extreme (40℃)		1.49	5.31	8.96	0.00057	0.00205	0.00345	PASS



Extreme (30℃)		16.73	4.90	5.22	0.00645	0.00189	0.00201	PASS
Extreme (20℃)		3.50	9.60	13.97	0.00135	0.00370	0.00538	PASS
Extreme (10℃)		11.79	4.03	16.03	0.00454	0.00155	0.00618	PASS
Extreme (0℃)		6.63	10.29	17.02	0.00255	0.00397	0.00656	PASS
Extreme (-10℃)		17.84	1.96	13.08	0.00687	0.00075	0.00504	PASS
Extreme (-20℃)		2.86	7.73	5.71	0.00110	0.00298	0.00220	PASS
Extreme (-30℃)		8.71	10.54	15.45	0.00336	0.00406	0.00595	PASS
25℃	LV	12.95	5.47	12.02	0.00499	0.00211	0.00463	PASS
	HV	4.25	15.30	11.56	0.00164	0.00589	0.00445	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	16.09	9.97	9.78	0.00620	0.00384	0.00377	PASS
Extreme (50℃)		13.81	4.66	15.19	0.00532	0.00180	0.00585	PASS
Extreme (40℃)		13.86	4.63	15.63	0.00534	0.00178	0.00602	PASS
Extreme (30℃)		8.62	17.76	13.08	0.00332	0.00684	0.00504	PASS
Extreme (20℃)		16.32	8.40	11.12	0.00629	0.00324	0.00429	PASS
Extreme (10℃)		6.43	16.20	6.09	0.00248	0.00624	0.00235	PASS
Extreme (0℃)		1.63	8.39	12.23	0.00063	0.00323	0.00471	PASS
Extreme (-10℃)		3.36	8.91	4.96	0.00130	0.00343	0.00191	PASS
Extreme (-20℃)		9.27	8.23	16.62	0.00357	0.00317	0.00640	PASS
Extreme (-30℃)		13.40	10.66	13.98	0.00516	0.00411	0.00539	PASS
25℃	LV	16.66	1.22	11.70	0.00642	0.00047	0.00451	PASS
	HV	8.95	4.63	15.09	0.00345	0.00178	0.00582	PASS

LTE Band 40 Subset 1								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.10	3.94	8.42	0.00544	0.00152	0.00325	PASS
Extreme (50℃)		10.38	10.57	1.10	0.00400	0.00408	0.00042	PASS
Extreme (40℃)		14.34	13.56	11.99	0.00553	0.00523	0.00462	PASS
Extreme (30℃)		15.93	1.68	12.01	0.00614	0.00065	0.00463	PASS
Extreme (20℃)		8.90	16.13	3.65	0.00343	0.00622	0.00141	PASS
Extreme (10℃)		11.58	13.98	4.92	0.00447	0.00539	0.00190	PASS
Extreme (0℃)		7.24	12.36	13.35	0.00279	0.00477	0.00515	PASS
Extreme (-10℃)		6.90	12.46	17.50	0.00266	0.00481	0.00675	PASS
Extreme (-20℃)		7.63	5.30	12.03	0.00294	0.00204	0.00464	PASS
Extreme (-30℃)		17.56	17.45	17.70	0.00677	0.00673	0.00683	PASS



25℃	LV	1.57	15.23	2.73	0.00061	0.00587	0.00105	PASS
	HV	1.89	1.66	6.83	0.00073	0.00064	0.00263	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.67	12.92	15.83	0.00334	0.00498	0.00611	PASS
Extreme (50℃)		11.58	13.03	2.51	0.00447	0.00502	0.00097	PASS
Extreme (40℃)		11.51	4.89	9.82	0.00444	0.00189	0.00379	PASS
Extreme (30℃)		13.14	2.87	16.30	0.00507	0.00111	0.00629	PASS
Extreme (20℃)		17.49	16.90	1.69	0.00675	0.00652	0.00065	PASS
Extreme (10℃)		13.65	2.59	13.90	0.00526	0.00100	0.00536	PASS
Extreme (0℃)		9.32	14.51	4.48	0.00359	0.00560	0.00173	PASS
Extreme (-10℃)		4.88	16.18	5.82	0.00188	0.00624	0.00224	PASS
Extreme (-20℃)		13.74	11.99	14.35	0.00530	0.00462	0.00553	PASS
Extreme (-30℃)		8.79	14.98	1.34	0.00339	0.00578	0.00052	PASS
25℃	LV	13.74	16.63	15.69	0.00530	0.00641	0.00605	PASS
	HV	7.59	8.39	17.26	0.00293	0.00324	0.00666	PASS

LTE Band 40 Subset 2								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.16	2.52	14.03	0.00392	0.00097	0.00541	PASS
Extreme (50℃)		16.60	12.34	6.38	0.00640	0.00476	0.00246	PASS
Extreme (40℃)		4.16	16.08	13.84	0.00161	0.00620	0.00534	PASS
Extreme (30℃)		8.37	11.14	2.86	0.00323	0.00430	0.00110	PASS
Extreme (20℃)		15.77	2.59	10.68	0.00608	0.00100	0.00412	PASS
Extreme (10℃)		13.93	7.35	11.13	0.00537	0.00284	0.00429	PASS
Extreme (0℃)		12.74	15.63	15.49	0.00491	0.00603	0.00597	PASS
Extreme (-10℃)		15.15	9.82	2.35	0.00584	0.00379	0.00091	PASS
Extreme (-20℃)		17.63	13.56	1.89	0.00680	0.00523	0.00073	PASS
Extreme (-30℃)		9.34	10.71	1.61	0.00360	0.00413	0.00062	PASS
25℃	LV	9.73	15.63	15.72	0.00375	0.00603	0.00606	PASS
	HV	5.55	5.28	7.03	0.00214	0.00204	0.00271	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	



Normal (25℃)	Normal	5.89	15.30	1.59	0.00227	0.00590	0.00061	PASS
Extreme (50℃)		15.17	1.04	2.08	0.00585	0.00040	0.00080	PASS
Extreme (40℃)		16.43	10.60	17.98	0.00633	0.00409	0.00693	PASS
Extreme (30℃)		16.46	7.35	8.34	0.00635	0.00283	0.00322	PASS
Extreme (20℃)		5.42	7.15	13.42	0.00209	0.00276	0.00518	PASS
Extreme (10℃)		2.25	14.51	6.96	0.00087	0.00560	0.00268	PASS
Extreme (0℃)		3.91	8.16	2.70	0.00151	0.00315	0.00104	PASS
Extreme (-10℃)		5.62	13.49	13.46	0.00217	0.00520	0.00519	PASS
Extreme (-20℃)		8.79	1.43	14.18	0.00339	0.00055	0.00547	PASS
Extreme (-30℃)		5.87	6.56	7.07	0.00226	0.00253	0.00273	PASS
25℃	LV	5.75	1.28	16.86	0.00222	0.00049	0.00650	PASS
	HV	1.41	10.41	1.43	0.00054	0.00402	0.00055	PASS

LTE Band 66								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.76	11.99	17.07	0.00216	0.00687	0.00978	PASS
Extreme (50℃)		13.60	10.79	9.01	0.00779	0.00618	0.00516	PASS
Extreme (40℃)		10.61	16.26	6.77	0.00608	0.00932	0.00388	PASS
Extreme (30℃)		7.88	5.80	9.08	0.00452	0.00333	0.00520	PASS
Extreme (20℃)		1.09	8.41	4.49	0.00062	0.00482	0.00257	PASS
Extreme (10℃)		10.29	12.82	15.48	0.00590	0.00735	0.00887	PASS
Extreme (0℃)		3.14	9.73	17.65	0.00180	0.00558	0.01011	PASS
Extreme (-10℃)		8.47	7.98	9.53	0.00485	0.00457	0.00546	PASS
Extreme (-20℃)		6.36	6.68	9.12	0.00365	0.00383	0.00523	PASS
Extreme (-30℃)		6.92	14.32	11.11	0.00396	0.00821	0.00637	PASS
25℃	LV	17.37	9.79	10.88	0.00995	0.00561	0.00624	PASS
	HV	5.90	13.33	13.86	0.00338	0.00764	0.00794	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.79	6.67	5.83	0.00504	0.00382	0.00334	PASS
Extreme (50℃)		2.52	9.20	15.68	0.00145	0.00527	0.00899	PASS
Extreme (40℃)		9.51	7.51	10.09	0.00545	0.00431	0.00578	PASS
Extreme (30℃)		1.98	4.56	13.55	0.00113	0.00261	0.00776	PASS
Extreme (20℃)		9.34	16.33	1.81	0.00535	0.00936	0.00104	PASS
Extreme (10℃)		8.28	4.12	17.95	0.00475	0.00236	0.01029	PASS
Extreme (0℃)		2.37	6.57	2.67	0.00136	0.00376	0.00153	PASS



Extreme (-10℃)		17.30	8.84	7.19	0.00991	0.00507	0.00412	PASS
Extreme (-20℃)		8.50	8.77	6.65	0.00487	0.00503	0.00381	PASS
Extreme (-30℃)		8.72	9.40	10.95	0.00500	0.00539	0.00628	PASS
25℃	LV	4.90	5.25	16.30	0.00281	0.00301	0.00934	PASS
	HV	16.46	3.36	17.00	0.00943	0.00192	0.00974	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	2.86	13.19	11.25	0.00164	0.00756	0.00645	PASS
Extreme (50℃)		13.26	17.17	9.38	0.00760	0.00984	0.00538	PASS
Extreme (40℃)		1.72	17.74	7.11	0.00099	0.01016	0.00408	PASS
Extreme (30℃)		15.58	1.65	9.35	0.00893	0.00095	0.00536	PASS
Extreme (20℃)		1.81	17.54	13.87	0.00104	0.01005	0.00795	PASS
Extreme (10℃)		1.25	14.86	5.68	0.00072	0.00852	0.00325	PASS
Extreme (0℃)		13.27	8.44	11.45	0.00761	0.00484	0.00656	PASS
Extreme (-10℃)		2.81	1.17	3.80	0.00161	0.00067	0.00218	PASS
Extreme (-20℃)		15.37	11.09	14.47	0.00881	0.00635	0.00829	PASS
Extreme (-30℃)		13.39	11.17	6.67	0.00768	0.00640	0.00382	PASS
25℃	LV	11.31	3.35	6.33	0.00648	0.00192	0.00363	PASS
	HV	4.89	13.66	15.31	0.00280	0.00783	0.00877	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.21	1.74	8.30	0.00470	0.00100	0.00476	PASS
Extreme (50℃)		7.61	2.84	12.74	0.00436	0.00163	0.00730	PASS
Extreme (40℃)		1.89	13.62	12.15	0.00108	0.00781	0.00696	PASS
Extreme (30℃)		6.76	3.35	3.31	0.00387	0.00192	0.00190	PASS
Extreme (20℃)		15.24	8.51	14.05	0.00873	0.00488	0.00805	PASS
Extreme (10℃)		14.10	8.56	11.29	0.00808	0.00491	0.00647	PASS
Extreme (0℃)		3.16	10.83	8.52	0.00181	0.00621	0.00488	PASS
Extreme (-10℃)		14.28	17.27	16.25	0.00818	0.00989	0.00931	PASS
Extreme (-20℃)		3.76	13.74	12.90	0.00215	0.00788	0.00739	PASS
Extreme (-30℃)		15.72	10.31	8.02	0.00901	0.00591	0.00459	PASS
25℃	LV	14.37	17.64	15.84	0.00824	0.01011	0.00908	PASS
	HV	7.52	12.69	6.05	0.00431	0.00727	0.00347	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	



Normal (25℃)	Normal	11.53	15.10	3.18	0.00661	0.00865	0.00182	PASS
Extreme (50℃)		14.79	10.28	1.51	0.00848	0.00589	0.00086	PASS
Extreme (40℃)		1.22	12.47	5.77	0.00070	0.00715	0.00331	PASS
Extreme (30℃)		17.03	8.94	5.50	0.00976	0.00512	0.00315	PASS
Extreme (20℃)		14.06	6.56	7.71	0.00806	0.00376	0.00442	PASS
Extreme (10℃)		6.76	1.98	15.08	0.00388	0.00114	0.00864	PASS
Extreme (0℃)		10.13	10.99	2.33	0.00580	0.00630	0.00134	PASS
Extreme (-10℃)		5.20	4.61	15.64	0.00298	0.00264	0.00896	PASS
Extreme (-20℃)		5.98	15.34	16.95	0.00342	0.00879	0.00972	PASS
Extreme (-30℃)		6.56	1.57	15.45	0.00376	0.00090	0.00885	PASS
25℃	LV	2.15	13.21	7.09	0.00123	0.00757	0.00406	PASS
	HV	7.32	1.90	9.18	0.00420	0.00109	0.00526	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	9.57	1.97	2.96	0.00548	0.00113	0.00169	PASS
Extreme (50℃)		1.64	1.50	17.91	0.00094	0.00086	0.01027	PASS
Extreme (40℃)		16.80	16.80	9.21	0.00962	0.00963	0.00528	PASS
Extreme (30℃)		8.09	1.45	16.53	0.00464	0.00083	0.00947	PASS
Extreme (20℃)		12.10	15.57	15.44	0.00693	0.00892	0.00885	PASS
Extreme (10℃)		10.16	8.41	7.77	0.00582	0.00482	0.00445	PASS
Extreme (0℃)		3.34	3.86	16.74	0.00191	0.00221	0.00959	PASS
Extreme (-10℃)		17.81	1.84	8.44	0.01021	0.00106	0.00484	PASS
Extreme (-20℃)		4.05	9.43	8.58	0.00232	0.00540	0.00492	PASS
Extreme (-30℃)		10.62	10.13	13.34	0.00608	0.00581	0.00764	PASS
25℃	LV	16.49	3.63	1.42	0.00945	0.00208	0.00082	PASS
	HV	11.94	7.39	5.16	0.00684	0.00423	0.00296	PASS

CA_7C_QPSK		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal（25℃）	Normal	2.53	0.00134	9.19	0.00489	PASS
Extreme（50℃）		16.21	0.00862	3.48	0.00185	PASS
Extreme（40℃）		16.63	0.00884	10.98	0.00584	PASS
Extreme（30℃）		17.06	0.00908	1.98	0.00105	PASS
Extreme（20℃）		9.12	0.00485	15.00	0.00798	PASS
Extreme（10℃）		15.07	0.00802	15.53	0.00826	PASS
Extreme（0℃）		14.73	0.00784	2.95	0.00157	PASS
Extreme（-10℃）		15.89	0.00845	16.82	0.00895	PASS



Extreme (-20℃)		17.43	0.00927	12.25	0.00652	PASS
Extreme (-30℃)		15.42	0.00820	9.95	0.00529	PASS
25℃	LV	1.17	0.00062	9.23	0.00491	PASS
	HV	13.26	0.00705	14.28	0.00759	PASS
CA_7C_16QAM		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	11.80	0.00628	9.10	0.00484	PASS
Extreme (50℃)		9.32	0.00496	16.45	0.00875	PASS
Extreme (40℃)		3.58	0.00191	14.06	0.00748	PASS
Extreme (30℃)		7.81	0.00416	1.03	0.00055	PASS
Extreme (20℃)		3.76	0.00200	8.15	0.00434	PASS
Extreme (10℃)		14.81	0.00788	9.46	0.00503	PASS
Extreme (0℃)		7.67	0.00408	6.27	0.00333	PASS
Extreme (-10℃)		1.41	0.00075	8.03	0.00427	PASS
Extreme (-20℃)		2.78	0.00148	7.42	0.00395	PASS
Extreme (-30℃)		17.51	0.00931	15.35	0.00816	PASS
25℃	LV	16.76	0.00891	7.99	0.00425	PASS
	HV	10.63	0.00566	4.78	0.00254	PASS
CA_7C_64QAM		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	16.25	0.00865	3.23	0.00172	PASS
Extreme (50℃)		4.50	0.00239	2.84	0.00151	PASS
Extreme (40℃)		7.46	0.00397	10.12	0.00538	PASS
Extreme (30℃)		8.42	0.00448	2.12	0.00113	PASS
Extreme (20℃)		17.61	0.00936	2.56	0.00136	PASS
Extreme (10℃)		9.59	0.00510	6.55	0.00348	PASS
Extreme (0℃)		1.07	0.00057	2.94	0.00157	PASS
Extreme (-10℃)		5.24	0.00279	11.04	0.00587	PASS
Extreme (-20℃)		12.93	0.00688	13.84	0.00736	PASS
Extreme (-30℃)		5.27	0.00280	1.79	0.00095	PASS
25℃	LV	6.52	0.00347	5.73	0.00305	PASS
	HV	5.65	0.00301	10.27	0.00546	PASS



NR n7												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.95	9.90	4.30	13.95	16.90	0.00550	0.00391	0.00170	0.00550	0.00667	PASS
Extreme (50℃)		15.68	1.63	12.00	11.68	17.63	0.00618	0.00064	0.00474	0.00461	0.00695	PASS
Extreme (40℃)		1.66	15.17	7.60	14.66	11.17	0.00066	0.00598	0.00300	0.00578	0.00441	PASS
Extreme (30℃)		11.75	17.72	10.57	17.75	13.72	0.00463	0.00699	0.00417	0.00700	0.00541	PASS
Extreme (20℃)		2.96	8.69	8.05	7.96	17.69	0.00117	0.00343	0.00317	0.00314	0.00698	PASS
Extreme (10℃)		10.84	12.44	12.94	14.84	13.44	0.00428	0.00491	0.00511	0.00585	0.00530	PASS
Extreme (0℃)		11.77	10.83	16.48	15.77	16.83	0.00464	0.00427	0.00650	0.00622	0.00664	PASS
Extreme (-10℃)		17.17	7.68	12.67	17.17	16.68	0.00677	0.00303	0.00500	0.00677	0.00658	PASS
Extreme (-20℃)		6.14	17.83	8.93	6.14	13.83	0.00242	0.00703	0.00352	0.00242	0.00546	PASS
Extreme (-30℃)		8.65	15.72	2.26	9.65	12.72	0.00341	0.00620	0.00089	0.00381	0.00502	PASS
25℃	LV	14.54	3.59	5.06	13.54	4.59	0.00574	0.00141	0.00200	0.00534	0.00181	PASS
	HV	13.27	7.00	8.72	9.27	14.00	0.00523	0.00276	0.00344	0.00366	0.00552	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.23	16.98	7.16	3.23	6.98	0.00049	0.00670	0.00282	0.00128	0.00275	PASS
Extreme (50℃)		3.51	11.17	3.09	6.51	2.17	0.00139	0.00441	0.00122	0.00257	0.00085	PASS
Extreme (40℃)		9.35	4.03	11.52	10.35	7.03	0.00369	0.00159	0.00454	0.00408	0.00277	PASS
Extreme (30℃)		11.47	11.15	12.79	8.47	4.15	0.00453	0.00440	0.00505	0.00334	0.00164	PASS
Extreme (20℃)		3.82	2.40	17.46	1.82	2.40	0.00151	0.00095	0.00689	0.00072	0.00095	PASS
Extreme (10℃)		16.96	2.10	4.11	15.96	14.10	0.00669	0.00083	0.00162	0.00629	0.00556	PASS
Extreme (0℃)		12.88	5.07	4.40	15.88	12.07	0.00508	0.00200	0.00174	0.00626	0.00476	PASS
Extreme (-10℃)		5.08	4.49	8.51	8.08	10.49	0.00201	0.00177	0.00336	0.00319	0.00414	PASS
Extreme (-20℃)		3.93	5.01	13.55	7.93	1.01	0.00155	0.00198	0.00535	0.00313	0.00040	PASS
Extreme (-30℃)		11.57	6.69	13.88	11.57	4.69	0.00456	0.00264	0.00547	0.00456	0.00185	PASS
25℃	LV	13.87	2.99	1.34	2.87	11.99	0.00547	0.00118	0.00053	0.00113	0.00473	PASS
	HV	13.25	3.11	6.26	14.25	13.11	0.00523	0.00123	0.00247	0.00562	0.00517	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.75	6.93	10.73	4.75	12.93	0.00069	0.00273	0.00423	0.00187	0.00510	PASS
Extreme (50℃)		13.28	6.05	4.59	16.28	12.05	0.00524	0.00239	0.00181	0.00642	0.00475	PASS
Extreme (40℃)		13.01	14.85	4.11	4.01	1.85	0.00513	0.00586	0.00162	0.00158	0.00073	PASS



Extreme (30℃)		12.00	15.84	10.42	1.00	11.84	0.00473	0.00625	0.00411	0.00040	0.00467	PASS
Extreme (20℃)		17.09	6.46	10.28	3.09	17.46	0.00674	0.00255	0.00406	0.00122	0.00689	PASS
Extreme (10℃)		12.92	3.01	14.82	2.92	1.01	0.00510	0.00119	0.00585	0.00115	0.00040	PASS
Extreme (0℃)		7.78	8.71	6.11	11.78	1.71	0.00307	0.00344	0.00241	0.00465	0.00068	PASS
Extreme (-10℃)		6.70	2.07	16.48	9.70	1.07	0.00264	0.00082	0.00650	0.00383	0.00042	PASS
Extreme (-20℃)		1.64	8.37	1.97	16.64	11.37	0.00065	0.00330	0.00078	0.00656	0.00449	PASS
Extreme (-30℃)		3.24	14.31	8.84	9.24	4.31	0.00128	0.00564	0.00349	0.00365	0.00170	PASS
25℃	LV	7.39	14.32	14.97	2.39	2.32	0.00291	0.00565	0.00590	0.00094	0.00091	PASS
	HV	13.23	9.78	11.03	17.23	3.78	0.00522	0.00386	0.00435	0.00679	0.00149	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	15.71	13.86	6.45	7.71	2.86	0.00620	0.00547	0.00254	0.00304	0.00113	PASS
Extreme (50℃)		3.28	10.22	9.97	12.28	2.22	0.00129	0.00403	0.00393	0.00484	0.00088	PASS
Extreme (40℃)		11.93	16.10	15.81	1.93	2.10	0.00471	0.00635	0.00624	0.00076	0.00083	PASS
Extreme (30℃)		11.65	4.84	13.16	2.65	5.84	0.00460	0.00191	0.00519	0.00104	0.00230	PASS
Extreme (20℃)		2.39	6.87	4.19	17.39	6.87	0.00094	0.00271	0.00165	0.00686	0.00271	PASS
Extreme (10℃)		2.16	9.57	4.59	10.16	13.57	0.00085	0.00378	0.00181	0.00401	0.00535	PASS
Extreme (0℃)		1.75	5.42	4.16	1.75	7.42	0.00069	0.00214	0.00164	0.00069	0.00293	PASS
Extreme (-10℃)		1.30	1.62	9.13	6.30	4.62	0.00051	0.00064	0.00360	0.00248	0.00182	PASS
Extreme (-20℃)		9.54	6.06	10.90	5.54	4.06	0.00377	0.00239	0.00430	0.00219	0.00160	PASS
Extreme (-30℃)		10.84	3.13	1.07	1.84	11.13	0.00428	0.00123	0.00042	0.00073	0.00439	PASS
25℃	LV	7.37	10.72	16.84	10.37	8.72	0.00291	0.00423	0.00664	0.00409	0.00344	PASS
	HV	5.41	16.59	7.47	4.41	14.59	0.00213	0.00654	0.00295	0.00174	0.00575	PASS

DC_28 Subset 1-n7A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.59	1.78	3.29	9.59	1.78	0.00536	0.00070	0.00130	0.00378	0.00070	PASS
Extreme (50℃)		17.06	13.68	6.65	8.06	11.68	0.00673	0.00540	0.00262	0.00318	0.00461	PASS
Extreme (40℃)		4.23	6.29	16.04	6.23	5.29	0.00167	0.00248	0.00633	0.00246	0.00209	PASS
Extreme (30℃)		9.80	9.60	11.17	16.80	10.60	0.00387	0.00379	0.00441	0.00663	0.00418	PASS
Extreme (20℃)		5.04	13.13	13.51	11.04	3.13	0.00199	0.00518	0.00533	0.00435	0.00124	PASS
Extreme (10℃)		16.54	5.48	9.33	7.54	3.48	0.00652	0.00216	0.00368	0.00297	0.00137	PASS
Extreme (0℃)		15.10	15.86	15.01	14.10	11.86	0.00596	0.00626	0.00592	0.00556	0.00468	PASS
Extreme (-10℃)		1.10	10.88	11.56	13.10	15.88	0.00043	0.00429	0.00456	0.00517	0.00626	PASS
Extreme (-20℃)		5.81	14.56	13.48	16.81	1.56	0.00229	0.00574	0.00532	0.00663	0.00061	PASS
Extreme (-30℃)		7.02	8.64	12.51	13.02	14.64	0.00277	0.00341	0.00494	0.00514	0.00578	PASS



25℃	LV	3.91	9.45	5.96	9.91	17.45	0.00154	0.00373	0.00235	0.00391	0.00688	PASS
	HV	12.51	10.91	6.55	17.51	15.91	0.00493	0.00430	0.00258	0.00691	0.00628	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)						
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	11.04	17.22	10.20	13.04	11.22	0.00436	0.00679	0.00402	0.00514	0.00443	PASS
Extreme (50℃)		6.37	10.55	5.99	1.37	10.55	0.00251	0.00416	0.00236	0.00054	0.00416	PASS
Extreme (40℃)		4.03	9.77	8.47	15.03	10.77	0.00159	0.00386	0.00334	0.00593	0.00425	PASS
Extreme (30℃)		4.56	6.84	3.45	15.56	16.84	0.00180	0.00270	0.00136	0.00614	0.00664	PASS
Extreme (20℃)		17.49	14.62	4.26	9.49	6.62	0.00690	0.00577	0.00168	0.00374	0.00261	PASS
Extreme (10℃)		17.29	7.07	13.80	16.29	4.07	0.00682	0.00279	0.00545	0.00643	0.00160	PASS
Extreme (0℃)		4.22	8.01	5.23	8.22	12.01	0.00167	0.00316	0.00206	0.00324	0.00474	PASS
Extreme (-10℃)		3.51	12.19	4.79	12.51	13.19	0.00138	0.00481	0.00189	0.00493	0.00520	PASS
Extreme (-20℃)		14.35	16.49	7.94	7.35	13.49	0.00566	0.00650	0.00313	0.00290	0.00532	PASS
Extreme (-30℃)		13.98	5.99	8.89	14.98	4.99	0.00551	0.00236	0.00351	0.00591	0.00197	PASS
25℃	LV	7.82	1.31	8.93	10.82	10.31	0.00308	0.00052	0.00352	0.00427	0.00407	PASS
	HV	6.24	14.38	12.99	9.24	5.38	0.00246	0.00567	0.00513	0.00364	0.00212	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)						
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.04	5.57	17.32	11.04	1.57	0.00041	0.00220	0.00683	0.00435	0.00062	PASS
Extreme (50℃)		11.63	4.18	1.37	14.63	15.18	0.00459	0.00165	0.00054	0.00577	0.00599	PASS
Extreme (40℃)		16.96	1.51	5.50	13.96	14.51	0.00669	0.00060	0.00217	0.00551	0.00572	PASS
Extreme (30℃)		9.34	16.63	1.34	5.34	9.63	0.00368	0.00656	0.00053	0.00211	0.00380	PASS
Extreme (20℃)		17.45	5.84	2.01	17.45	11.84	0.00688	0.00230	0.00079	0.00688	0.00467	PASS
Extreme (10℃)		7.05	7.31	16.70	15.05	14.31	0.00278	0.00288	0.00659	0.00594	0.00565	PASS
Extreme (0℃)		1.78	12.31	8.89	2.78	2.31	0.00070	0.00486	0.00351	0.00110	0.00091	PASS
Extreme (-10℃)		17.32	10.64	12.45	6.32	6.64	0.00683	0.00420	0.00491	0.00249	0.00262	PASS
Extreme (-20℃)		11.57	12.04	6.79	4.57	15.04	0.00456	0.00475	0.00268	0.00180	0.00593	PASS
Extreme (-30℃)		12.45	5.81	7.78	1.45	17.81	0.00491	0.00229	0.00307	0.00057	0.00703	PASS
25℃	LV	13.68	7.47	14.64	14.68	11.47	0.00540	0.00295	0.00578	0.00579	0.00452	PASS
	HV	17.11	15.88	11.79	17.11	17.88	0.00675	0.00627	0.00465	0.00675	0.00705	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)						
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.75	2.37	4.30	9.75	11.37	0.00266	0.00094	0.00170	0.00384	0.00449	PASS
Extreme (50℃)		7.72	1.50	13.14	5.72	17.50	0.00305	0.00059	0.00518	0.00226	0.00690	PASS
Extreme (40℃)		16.04	6.13	7.30	4.04	8.13	0.00633	0.00242	0.00288	0.00159	0.00321	PASS



Extreme (30℃)		1.58	13.35	14.35	7.58	1.35	0.00062	0.00526	0.00566	0.00299	0.00053	PASS
Extreme (20℃)		6.26	4.45	1.98	10.26	14.45	0.00247	0.00176	0.00078	0.00405	0.00570	PASS
Extreme (10℃)		13.71	1.77	3.36	13.71	7.77	0.00541	0.00070	0.00132	0.00541	0.00306	PASS
Extreme (0℃)		8.30	12.48	6.00	10.30	9.48	0.00328	0.00492	0.00237	0.00406	0.00374	PASS
Extreme (-10℃)		1.54	4.85	15.67	13.54	8.85	0.00061	0.00191	0.00618	0.00534	0.00349	PASS
Extreme (-20℃)		15.50	6.19	9.79	1.50	2.19	0.00611	0.00244	0.00386	0.00059	0.00086	PASS
Extreme (-30℃)		17.29	1.33	12.16	3.29	6.33	0.00682	0.00052	0.00480	0.00130	0.00250	PASS
25℃	LV	4.93	7.37	3.01	15.93	5.37	0.00195	0.00291	0.00119	0.00629	0.00212	PASS
	HV	7.48	2.28	7.11	9.48	5.28	0.00295	0.00090	0.00280	0.00374	0.00208	PASS

NR n40 Subset 1												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	Verdict
Normal (25℃)	Normal	11.50	14.38	14.46	5.50	13.38	0.00498	0.00623	0.00626	0.00238	0.00579	
Extreme (50℃)		10.58	9.46	4.14	17.58	1.46	0.00458	0.00409	0.00179	0.00761	0.00063	PASS
Extreme (40℃)		13.67	1.41	10.85	17.67	1.41	0.00592	0.00061	0.00470	0.00765	0.00061	PASS
Extreme (30℃)		8.10	4.89	4.96	2.10	11.89	0.00351	0.00212	0.00215	0.00091	0.00515	PASS
Extreme (20℃)		17.89	16.83	5.01	12.89	1.83	0.00775	0.00728	0.00217	0.00558	0.00079	PASS
Extreme (10℃)		9.74	6.81	13.88	17.74	6.81	0.00421	0.00295	0.00601	0.00768	0.00295	PASS
Extreme (0℃)		14.10	1.49	3.70	12.10	6.49	0.00610	0.00064	0.00160	0.00524	0.00281	PASS
Extreme (-10℃)		10.82	4.36	17.09	7.82	2.36	0.00469	0.00189	0.00740	0.00339	0.00102	PASS
Extreme (-20℃)		11.13	6.24	7.77	16.13	12.24	0.00482	0.00270	0.00336	0.00698	0.00530	PASS
Extreme (-30℃)		16.94	6.27	16.33	7.94	8.27	0.00733	0.00271	0.00707	0.00344	0.00358	PASS
25℃	LV	4.07	4.20	7.17	3.07	8.20	0.00176	0.00182	0.00310	0.00133	0.00355	PASS
	HV	2.92	1.94	14.23	5.92	6.94	0.00126	0.00084	0.00616	0.00256	0.00300	PASS

NR n40 Subset 2												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	Verdict
Normal (25℃)	Normal	1.20	10.01	15.12	2.20	3.01	0.00051	0.00425	0.00642	0.00093	0.00128	
Extreme (50℃)		12.46	4.36	13.66	16.46	11.36	0.00529	0.00185	0.00580	0.00699	0.00483	PASS
Extreme (40℃)		15.34	15.43	5.65	8.34	9.43	0.00651	0.00655	0.00240	0.00354	0.00401	PASS
Extreme (30℃)		16.87	14.85	9.59	6.87	5.85	0.00716	0.00631	0.00407	0.00292	0.00248	PASS
Extreme (20℃)		14.60	3.90	3.44	5.60	3.90	0.00620	0.00166	0.00146	0.00238	0.00166	PASS
Extreme (10℃)		15.86	13.64	9.18	7.86	8.64	0.00674	0.00579	0.00390	0.00334	0.00367	PASS
Extreme (0℃)		8.68	12.37	12.08	17.68	10.37	0.00369	0.00525	0.00513	0.00751	0.00440	PASS
Extreme (-10℃)		5.25	7.97	4.83	6.25	16.97	0.00223	0.00338	0.00205	0.00266	0.00721	PASS



Extreme (-20℃)		4.71	11.06	5.37	1.71	13.06	0.00200	0.00470	0.00228	0.00073	0.00555	PASS
Extreme (-30℃)		9.67	12.37	16.09	15.67	2.37	0.00411	0.00525	0.00683	0.00665	0.00101	PASS
25℃	LV	4.47	4.43	15.73	9.47	7.43	0.00190	0.00188	0.00668	0.00402	0.00315	PASS
	HV	7.03	11.81	1.72	2.03	5.81	0.00299	0.00501	0.00073	0.00086	0.00247	PASS

NR n66												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.05	12.34	13.32	2.05	8.34	0.00060	0.00707	0.00763	0.00118	0.00478	PASS
Extreme (50℃)		2.11	10.89	11.39	9.11	2.89	0.00121	0.00624	0.00653	0.00522	0.00166	PASS
Extreme (40℃)		5.15	8.72	17.17	13.15	12.72	0.00295	0.00500	0.00984	0.00753	0.00729	PASS
Extreme (30℃)		12.18	10.98	16.61	15.18	7.98	0.00698	0.00629	0.00952	0.00870	0.00457	PASS
Extreme (20℃)		6.72	6.11	7.81	17.72	14.11	0.00385	0.00350	0.00447	0.01015	0.00809	PASS
Extreme (10℃)		10.20	5.39	15.61	5.20	5.39	0.00584	0.00309	0.00894	0.00298	0.00309	PASS
Extreme (0℃)		10.15	1.01	17.22	13.15	9.01	0.00581	0.00058	0.00987	0.00753	0.00516	PASS
Extreme (-10℃)		15.50	15.15	7.63	3.50	3.15	0.00888	0.00868	0.00437	0.00200	0.00180	PASS
Extreme (-20℃)		7.27	11.65	8.77	4.27	13.65	0.00417	0.00668	0.00503	0.00245	0.00782	PASS
Extreme (-30℃)		14.21	13.92	12.87	17.21	7.92	0.00814	0.00798	0.00737	0.00986	0.00454	PASS
25℃	LV	1.14	1.43	15.15	11.14	14.43	0.00065	0.00082	0.00868	0.00638	0.00827	PASS
	HV	5.90	4.15	12.93	12.90	5.15	0.00338	0.00238	0.00741	0.00739	0.00295	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.16	3.26	4.16	7.16	9.26	0.00697	0.00187	0.00238	0.00410	0.00530	PASS
Extreme (50℃)		15.63	14.88	13.09	13.63	16.88	0.00896	0.00853	0.00750	0.00781	0.00967	PASS
Extreme (40℃)		16.09	12.71	4.48	8.09	9.71	0.00922	0.00728	0.00257	0.00464	0.00556	PASS
Extreme (30℃)		6.42	9.67	14.19	11.42	6.67	0.00368	0.00554	0.00813	0.00654	0.00382	PASS
Extreme (20℃)		16.70	3.02	17.07	3.70	10.02	0.00957	0.00173	0.00978	0.00212	0.00574	PASS
Extreme (10℃)		4.88	8.80	14.05	11.88	3.80	0.00280	0.00504	0.00805	0.00681	0.00218	PASS
Extreme (0℃)		12.18	17.86	17.70	17.18	5.86	0.00698	0.01023	0.01014	0.00984	0.00336	PASS
Extreme (-10℃)		8.39	5.83	12.13	1.39	17.83	0.00481	0.00334	0.00695	0.00079	0.01022	PASS
Extreme (-20℃)		17.44	15.47	10.55	16.44	11.47	0.00999	0.00887	0.00605	0.00942	0.00657	PASS
Extreme (-30℃)		7.04	6.83	13.80	12.04	1.83	0.00403	0.00391	0.00791	0.00690	0.00105	PASS
25℃	LV	13.88	5.66	7.51	1.88	5.66	0.00795	0.00324	0.00430	0.00108	0.00324	PASS
	HV	5.97	13.80	7.08	1.97	4.80	0.00342	0.00791	0.00406	0.00113	0.00275	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	



BANDWIDTH	15MHz						(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	11.42	11.37	7.66	17.42	8.37	0.00654	0.00652	0.00439	0.00998	0.00480	PASS
Extreme (50℃)		1.02	10.02	7.44	6.02	16.02	0.00058	0.00574	0.00427	0.00345	0.00918	PASS
Extreme (40℃)		11.41	15.94	1.63	11.41	13.94	0.00654	0.00914	0.00093	0.00654	0.00799	PASS
Extreme (30℃)		8.42	3.61	3.36	15.42	14.61	0.00482	0.00207	0.00193	0.00884	0.00837	PASS
Extreme (20℃)		9.95	6.84	10.86	5.95	6.84	0.00570	0.00392	0.00622	0.00341	0.00392	PASS
Extreme (10℃)		16.65	11.31	16.18	5.65	15.31	0.00954	0.00648	0.00927	0.00324	0.00877	PASS
Extreme (0℃)		9.40	7.09	3.63	12.40	10.09	0.00539	0.00406	0.00208	0.00711	0.00578	PASS
Extreme (-10℃)		10.99	5.05	17.08	4.99	11.05	0.00630	0.00289	0.00979	0.00286	0.00633	PASS
Extreme (-20℃)		8.80	10.36	2.41	7.80	6.36	0.00504	0.00594	0.00138	0.00447	0.00364	PASS
Extreme (-30℃)		17.03	7.35	5.51	5.03	14.35	0.00976	0.00421	0.00316	0.00288	0.00822	PASS
25℃	LV	8.83	9.97	9.72	7.83	10.97	0.00506	0.00572	0.00557	0.00449	0.00629	PASS
	HV	6.58	7.05	5.83	3.58	16.05	0.00377	0.00404	0.00334	0.00205	0.00920	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.19	13.81	8.54	12.19	1.81	0.00183	0.00791	0.00490	0.00699	0.00104	PASS
Extreme (50℃)		3.04	5.08	2.03	13.04	7.08	0.00174	0.00291	0.00116	0.00748	0.00406	PASS
Extreme (40℃)		2.47	7.58	3.39	1.47	14.58	0.00141	0.00434	0.00194	0.00084	0.00835	PASS
Extreme (30℃)		14.99	6.68	13.62	2.99	14.68	0.00859	0.00383	0.00781	0.00171	0.00841	PASS
Extreme (20℃)		16.09	9.36	3.98	16.09	8.36	0.00922	0.00537	0.00228	0.00922	0.00479	PASS
Extreme (10℃)		7.92	4.39	1.99	12.92	11.39	0.00454	0.00252	0.00114	0.00741	0.00653	PASS
Extreme (0℃)		10.60	10.15	17.48	15.60	10.15	0.00607	0.00582	0.01002	0.00894	0.00582	PASS
Extreme (-10℃)		5.96	13.58	4.50	3.96	12.58	0.00341	0.00778	0.00258	0.00227	0.00721	PASS
Extreme (-20℃)		3.73	11.46	17.35	1.73	17.46	0.00214	0.00657	0.00995	0.00099	0.01001	PASS
Extreme (-30℃)		15.92	11.41	15.88	5.92	9.41	0.00912	0.00654	0.00910	0.00339	0.00539	PASS
25℃	LV	7.86	13.27	10.83	4.86	16.27	0.00450	0.00761	0.00621	0.00278	0.00932	PASS
	HV	2.82	3.00	12.30	12.82	14.00	0.00161	0.00172	0.00705	0.00734	0.00802	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Verdict
BANDWIDTH	25MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	16.66	6.98	7.11	4.66	2.98	0.00955	0.00400	0.00408	0.00267	0.00171	PASS
Extreme (50℃)		9.78	9.44	17.12	7.78	2.44	0.00560	0.00541	0.00981	0.00446	0.00140	PASS
Extreme (40℃)		6.82	16.81	9.85	10.82	13.81	0.00391	0.00963	0.00564	0.00620	0.00791	PASS
Extreme (30℃)		5.90	11.21	15.12	15.90	6.21	0.00338	0.00642	0.00867	0.00911	0.00356	PASS
Extreme (20℃)		3.22	7.80	3.43	13.22	5.80	0.00185	0.00447	0.00197	0.00758	0.00333	PASS
Extreme (10℃)		11.01	8.21	10.91	1.01	11.21	0.00631	0.00470	0.00625	0.00058	0.00642	PASS
Extreme (0℃)		8.39	14.55	8.57	4.39	7.55	0.00481	0.00834	0.00491	0.00251	0.00433	PASS



Extreme (-10℃)		1.13	12.08	3.03	13.13	14.08	0.00065	0.00692	0.00174	0.00753	0.00807	PASS
Extreme (-20℃)		11.07	11.34	2.90	11.07	7.34	0.00634	0.00650	0.00166	0.00634	0.00421	PASS
Extreme (-30℃)		15.56	13.40	17.40	6.56	10.40	0.00891	0.00768	0.00997	0.00376	0.00596	PASS
25℃	LV	2.63	15.26	10.83	3.63	5.26	0.00151	0.00874	0.00620	0.00208	0.00301	PASS
	HV	12.33	11.42	4.42	11.33	15.42	0.00707	0.00654	0.00253	0.00649	0.00884	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	30MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.01	5.26	16.32	7.01	5.26	0.00574	0.00302	0.00935	0.00402	0.00302	PASS
Extreme (50℃)		16.92	9.32	1.97	7.92	13.32	0.00970	0.00534	0.00113	0.00454	0.00764	PASS
Extreme (40℃)		6.99	17.96	10.74	2.99	2.96	0.00401	0.01029	0.00615	0.00171	0.00170	PASS
Extreme (30℃)		11.98	9.22	4.04	17.98	9.22	0.00686	0.00528	0.00232	0.01030	0.00528	PASS
Extreme (20℃)		4.61	9.05	3.15	1.61	4.05	0.00264	0.00519	0.00180	0.00092	0.00232	PASS
Extreme (10℃)		9.05	14.73	17.40	10.05	7.73	0.00519	0.00844	0.00997	0.00576	0.00443	PASS
Extreme (0℃)		3.70	2.57	4.33	7.70	9.57	0.00212	0.00147	0.00248	0.00441	0.00548	PASS
Extreme (-10℃)		2.50	14.77	1.31	15.50	12.77	0.00143	0.00846	0.00075	0.00888	0.00732	PASS
Extreme (-20℃)		3.83	12.05	9.01	10.83	14.05	0.00220	0.00690	0.00516	0.00621	0.00805	PASS
Extreme (-30℃)		4.97	4.06	8.77	8.97	12.06	0.00285	0.00233	0.00503	0.00514	0.00691	PASS
25℃	LV	16.71	7.50	5.08	11.71	5.50	0.00957	0.00430	0.00291	0.00671	0.00315	PASS
	HV	1.82	3.61	11.64	1.82	3.61	0.00104	0.00207	0.00667	0.00104	0.00207	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.85	12.33	14.19	6.85	13.33	0.00106	0.00706	0.00813	0.00393	0.00764	PASS
Extreme (50℃)		13.01	10.76	4.44	7.01	8.76	0.00746	0.00617	0.00255	0.00402	0.00502	PASS
Extreme (40℃)		5.36	17.69	8.53	17.36	13.69	0.00307	0.01014	0.00489	0.00995	0.00785	PASS
Extreme (30℃)		1.93	15.02	3.51	12.93	1.02	0.00111	0.00861	0.00201	0.00741	0.00058	PASS
Extreme (20℃)		9.08	8.04	10.90	9.08	14.04	0.00520	0.00461	0.00625	0.00520	0.00804	PASS
Extreme (10℃)		5.77	5.43	13.66	12.77	16.43	0.00331	0.00311	0.00783	0.00732	0.00942	PASS
Extreme (0℃)		9.81	3.24	8.66	10.81	4.24	0.00562	0.00185	0.00496	0.00619	0.00243	PASS
Extreme (-10℃)		10.78	14.79	2.43	15.78	13.79	0.00618	0.00848	0.00139	0.00904	0.00790	PASS
Extreme (-20℃)		16.90	13.33	7.00	6.90	17.33	0.00968	0.00764	0.00401	0.00395	0.00993	PASS
Extreme (-30℃)		4.80	14.05	17.09	8.80	7.05	0.00275	0.00805	0.00979	0.00504	0.00404	PASS
25℃	LV	17.49	1.54	7.99	15.49	8.54	0.01003	0.00088	0.00458	0.00888	0.00489	PASS
	HV	15.46	12.69	12.96	16.46	6.69	0.00886	0.00727	0.00743	0.00943	0.00384	PASS



DC_2A-n66A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	Verdict
Normal (25℃)	Normal	10.18	10.70	17.87	13.18	10.70	0.00583	0.00613	0.01024	0.00755	0.00613	PASS
Extreme (50℃)		14.94	11.88	5.65	6.94	15.88	0.00856	0.00681	0.00324	0.00398	0.00910	PASS
Extreme (40℃)		16.24	4.42	4.85	12.24	6.42	0.00931	0.00253	0.00278	0.00701	0.00368	PASS
Extreme (30℃)		6.10	9.87	1.79	14.10	17.87	0.00349	0.00566	0.00103	0.00808	0.01024	PASS
Extreme (20℃)		6.00	12.59	1.39	17.00	9.59	0.00344	0.00722	0.00079	0.00974	0.00550	PASS
Extreme (10℃)		14.75	10.78	11.10	13.75	14.78	0.00846	0.00618	0.00636	0.00788	0.00847	PASS
Extreme (0℃)		17.39	17.91	3.30	16.39	8.91	0.00997	0.01026	0.00189	0.00939	0.00510	PASS
Extreme (-10℃)		13.83	6.85	17.65	4.83	9.85	0.00793	0.00392	0.01012	0.00277	0.00564	PASS
Extreme (-20℃)		2.26	14.21	7.08	12.26	8.21	0.00129	0.00814	0.00406	0.00702	0.00470	PASS
Extreme (-30℃)		10.75	6.63	7.43	13.75	16.63	0.00616	0.00380	0.00426	0.00788	0.00953	PASS
25℃	LV	13.91	10.42	8.96	14.91	6.42	0.00797	0.00597	0.00513	0.00854	0.00368	PASS
	HV	3.65	11.21	11.45	8.65	11.21	0.00209	0.00642	0.00656	0.00496	0.00642	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	Verdict
Normal (25℃)	Normal	8.45	12.27	12.90	16.45	3.27	0.00484	0.00703	0.00739	0.00943	0.00187	PASS
Extreme (50℃)		3.34	4.77	7.74	17.34	9.77	0.00191	0.00273	0.00443	0.00994	0.00560	PASS
Extreme (40℃)		5.69	14.72	2.42	11.69	12.72	0.00326	0.00844	0.00139	0.00670	0.00729	PASS
Extreme (30℃)		16.63	6.91	13.67	10.63	3.91	0.00953	0.00396	0.00783	0.00609	0.00224	PASS
Extreme (20℃)		3.41	13.56	17.58	5.41	12.56	0.00196	0.00777	0.01007	0.00310	0.00720	PASS
Extreme (10℃)		5.67	11.40	4.01	9.67	12.40	0.00325	0.00653	0.00230	0.00554	0.00710	PASS
Extreme (0℃)		11.89	11.94	8.72	12.89	10.94	0.00681	0.00684	0.00500	0.00738	0.00627	PASS
Extreme (-10℃)		3.93	12.34	4.15	16.93	14.34	0.00225	0.00707	0.00238	0.00970	0.00822	PASS
Extreme (-20℃)		17.22	16.16	9.63	2.22	14.16	0.00987	0.00926	0.00552	0.00127	0.00811	PASS
Extreme (-30℃)		1.28	15.92	2.75	12.28	9.92	0.00073	0.00912	0.00158	0.00704	0.00568	PASS
25℃	LV	9.71	6.68	2.72	6.71	17.68	0.00556	0.00383	0.00156	0.00384	0.01013	PASS
	HV	7.58	6.27	13.52	13.58	10.27	0.00434	0.00359	0.00775	0.00778	0.00589	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	Verdict
Normal (25℃)	Normal	2.77	7.35	5.63	15.77	2.35	0.00159	0.00421	0.00323	0.00904	0.00135	PASS
Extreme (50℃)		2.00	15.60	13.42	12.00	3.60	0.00115	0.00894	0.00769	0.00688	0.00206	PASS
Extreme (40℃)		14.79	7.47	10.24	11.79	2.47	0.00847	0.00428	0.00587	0.00675	0.00142	PASS
Extreme (30℃)		9.28	7.98	12.23	13.28	15.98	0.00532	0.00458	0.00701	0.00761	0.00916	PASS



Extreme (20℃)		4.59	2.89	5.68	11.59	15.89	0.00263	0.00165	0.00326	0.00664	0.00910	PASS
Extreme (10℃)		13.07	15.12	9.74	2.07	9.12	0.00749	0.00867	0.00558	0.00119	0.00523	PASS
Extreme (0℃)		5.13	4.28	13.76	4.13	8.28	0.00294	0.00245	0.00789	0.00237	0.00475	PASS
Extreme (-10℃)		15.19	2.45	5.06	2.19	12.45	0.00871	0.00140	0.00290	0.00126	0.00713	PASS
Extreme (-20℃)		16.80	4.82	8.81	8.80	7.82	0.00963	0.00276	0.00505	0.00504	0.00448	PASS
Extreme (-30℃)		4.06	17.54	13.30	13.06	8.54	0.00233	0.01005	0.00762	0.00748	0.00490	PASS
25℃	LV	13.78	1.57	6.05	12.78	6.57	0.00790	0.00090	0.00346	0.00733	0.00377	PASS
	HV	8.24	4.67	5.73	4.24	2.67	0.00472	0.00267	0.00329	0.00243	0.00153	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.54	8.35	1.33	3.54	8.35	0.00318	0.00478	0.00076	0.00203	0.00478	PASS
Extreme (50℃)		12.99	9.89	13.86	3.99	1.89	0.00744	0.00567	0.00794	0.00229	0.00108	PASS
Extreme (40℃)		10.38	9.96	10.14	15.38	5.96	0.00595	0.00571	0.00581	0.00882	0.00342	PASS
Extreme (30℃)		11.41	8.69	11.60	7.41	5.69	0.00654	0.00498	0.00665	0.00425	0.00326	PASS
Extreme (20℃)		11.28	14.16	11.37	3.28	15.16	0.00646	0.00811	0.00652	0.00188	0.00869	PASS
Extreme (10℃)		12.84	14.69	7.68	9.84	16.69	0.00736	0.00842	0.00440	0.00564	0.00957	PASS
Extreme (0℃)		11.33	3.06	17.47	17.33	8.06	0.00649	0.00175	0.01001	0.00993	0.00462	PASS
Extreme (-10℃)		11.18	2.73	4.81	16.18	2.73	0.00641	0.00157	0.00276	0.00927	0.00157	PASS
Extreme (-20℃)		4.14	14.18	8.62	1.14	5.18	0.00237	0.00813	0.00494	0.00066	0.00297	PASS
Extreme (-30℃)		5.32	9.74	17.08	12.32	4.74	0.00305	0.00558	0.00979	0.00706	0.00272	PASS
25℃	LV	3.98	5.56	10.80	15.98	5.56	0.00228	0.00318	0.00619	0.00916	0.00318	PASS
	HV	14.97	5.37	8.88	11.97	8.37	0.00858	0.00308	0.00509	0.00686	0.00480	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	25MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	7.56	6.37	8.61	6.56	1.37	0.00433	0.00365	0.00493	0.00376	0.00079	PASS
Extreme (50℃)		11.38	1.83	6.03	9.38	3.83	0.00652	0.00105	0.00346	0.00538	0.00219	PASS
Extreme (40℃)		15.21	11.35	12.52	8.21	10.35	0.00872	0.00651	0.00717	0.00471	0.00593	PASS
Extreme (30℃)		7.67	16.85	15.78	11.67	3.85	0.00439	0.00965	0.00904	0.00669	0.00220	PASS
Extreme (20℃)		4.91	10.53	11.83	2.91	10.53	0.00281	0.00603	0.00678	0.00167	0.00603	PASS
Extreme (10℃)		7.94	9.21	3.54	15.94	10.21	0.00455	0.00528	0.00203	0.00914	0.00585	PASS
Extreme (0℃)		2.41	1.93	11.13	2.41	8.93	0.00138	0.00110	0.00638	0.00138	0.00512	PASS
Extreme (-10℃)		3.00	5.75	10.56	17.00	5.75	0.00172	0.00329	0.00605	0.00974	0.00329	PASS
Extreme (-20℃)		7.22	15.56	9.56	8.22	12.56	0.00414	0.00891	0.00548	0.00471	0.00720	PASS
Extreme (-30℃)		14.73	15.99	1.09	11.73	6.99	0.00844	0.00916	0.00062	0.00672	0.00400	PASS
25℃	LV	7.69	11.61	4.56	12.69	11.61	0.00441	0.00666	0.00261	0.00727	0.00666	PASS
	HV	12.46	2.71	10.34	3.46	15.71	0.00714	0.00155	0.00593	0.00198	0.00900	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict



BANDWIDTH	30MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
		256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.57	3.68	5.03	6.57	11.68	0.00319	0.00211	0.00288	0.00377	0.00669	PASS
Extreme (50℃)		4.22	8.04	12.18	14.22	4.04	0.00242	0.00461	0.00698	0.00815	0.00232	PASS
Extreme (40℃)		10.91	1.23	8.31	15.91	16.23	0.00625	0.00070	0.00476	0.00912	0.00930	PASS
Extreme (30℃)		4.57	12.22	2.98	3.57	8.22	0.00262	0.00701	0.00171	0.00205	0.00471	PASS
Extreme (20℃)		1.98	11.86	2.15	8.98	11.86	0.00114	0.00680	0.00123	0.00515	0.00680	PASS
Extreme (10℃)		9.49	2.07	2.61	2.49	17.07	0.00544	0.00119	0.00149	0.00143	0.00978	PASS
Extreme (0℃)		13.57	2.67	16.59	10.57	8.67	0.00778	0.00153	0.00951	0.00606	0.00497	PASS
Extreme (-10℃)		3.60	15.83	15.74	1.60	11.83	0.00206	0.00907	0.00902	0.00091	0.00678	PASS
Extreme (-20℃)		13.93	16.72	17.12	9.93	1.72	0.00798	0.00958	0.00981	0.00569	0.00099	PASS
Extreme (-30℃)		6.68	5.46	11.44	12.68	14.46	0.00383	0.00313	0.00655	0.00727	0.00829	PASS
25℃	LV	4.66	7.73	3.59	16.66	9.73	0.00267	0.00443	0.00206	0.00954	0.00558	PASS
	HV	13.82	14.57	14.08	7.82	9.57	0.00792	0.00835	0.00807	0.00448	0.00549	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.82	2.83	4.21	9.82	12.83	0.00735	0.00162	0.00241	0.00563	0.00735	PASS
Extreme (50℃)		14.15	7.21	6.42	8.15	16.21	0.00811	0.00413	0.00368	0.00467	0.00929	PASS
Extreme (40℃)		15.59	13.40	15.07	12.59	16.40	0.00893	0.00768	0.00863	0.00721	0.00940	PASS
Extreme (30℃)		9.19	12.76	7.14	3.19	14.76	0.00527	0.00731	0.00409	0.00183	0.00846	PASS
Extreme (20℃)		6.07	5.40	1.55	7.07	12.40	0.00348	0.00310	0.00089	0.00405	0.00711	PASS
Extreme (10℃)		15.68	11.63	4.55	7.68	4.63	0.00899	0.00667	0.00261	0.00440	0.00266	PASS
Extreme (0℃)		8.20	1.16	17.82	4.20	3.16	0.00470	0.00066	0.01021	0.00241	0.00181	PASS
Extreme (-10℃)		16.48	5.73	12.04	8.48	13.73	0.00945	0.00328	0.00690	0.00486	0.00787	PASS
Extreme (-20℃)		2.26	10.16	4.20	8.26	2.16	0.00130	0.00582	0.00241	0.00473	0.00124	PASS
Extreme (-30℃)		6.33	6.82	7.86	10.33	12.82	0.00363	0.00391	0.00450	0.00592	0.00735	PASS
25℃	LV	15.78	11.21	15.68	15.78	2.21	0.00904	0.00642	0.00899	0.00904	0.00127	PASS
	HV	16.58	5.48	15.49	13.58	12.48	0.00950	0.00314	0.00888	0.00778	0.00715	PASS

NR n78 Subset 1												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	15.23	17.90	8.46	13.23	1.90	0.00435	0.00511	0.00242	0.00378	0.00054	PASS
Extreme (50℃)		1.21	12.32	15.55	6.21	14.32	0.00035	0.00352	0.00444	0.00178	0.00409	PASS



Extreme (40℃)		5.38	6.92	4.84	8.38	10.92	0.00154	0.00198	0.00138	0.00239	0.00312	PASS
Extreme (30℃)		12.58	6.69	11.94	8.58	8.69	0.00359	0.00191	0.00341	0.00245	0.00248	PASS
Extreme (20℃)		9.14	16.80	11.55	13.14	12.80	0.00261	0.00480	0.00330	0.00375	0.00366	PASS
Extreme (10℃)		17.75	6.31	6.50	16.75	10.31	0.00507	0.00180	0.00186	0.00479	0.00294	PASS
Extreme (0℃)		12.62	8.22	13.78	10.62	6.22	0.00361	0.00235	0.00394	0.00304	0.00178	PASS
Extreme (-10℃)		3.43	8.05	11.19	9.43	3.05	0.00098	0.00230	0.00320	0.00269	0.00087	PASS
Extreme (-20℃)		15.28	17.77	12.05	7.28	10.77	0.00437	0.00508	0.00344	0.00208	0.00308	PASS
Extreme (-30℃)		11.82	2.67	11.92	14.82	4.67	0.00338	0.00076	0.00341	0.00423	0.00133	PASS
25℃	LV	12.70	4.97	1.40	14.70	10.97	0.00363	0.00142	0.00040	0.00420	0.00314	PASS
	HV	16.21	1.26	17.70	2.21	17.26	0.00463	0.00036	0.00506	0.00063	0.00493	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.88	10.88	2.93	5.88	5.88	0.00368	0.00311	0.00084	0.00168	0.00168	PASS
Extreme (50℃)		8.98	2.00	12.02	12.98	11.00	0.00257	0.00057	0.00344	0.00371	0.00314	PASS
Extreme (40℃)		16.14	14.86	8.35	9.14	7.86	0.00461	0.00425	0.00239	0.00261	0.00225	PASS
Extreme (30℃)		3.90	4.92	9.99	12.90	13.92	0.00111	0.00141	0.00285	0.00368	0.00398	PASS
Extreme (20℃)		3.76	3.79	15.19	4.76	11.79	0.00107	0.00108	0.00434	0.00136	0.00337	PASS
Extreme (10℃)		2.86	11.25	6.18	5.86	7.25	0.00082	0.00321	0.00177	0.00167	0.00207	PASS
Extreme (0℃)		11.40	8.64	13.55	2.40	16.64	0.00326	0.00247	0.00387	0.00068	0.00476	PASS
Extreme (-10℃)		7.52	12.36	1.71	11.52	3.36	0.00215	0.00353	0.00049	0.00329	0.00096	PASS
Extreme (-20℃)		3.09	17.78	5.92	14.09	1.78	0.00088	0.00508	0.00169	0.00403	0.00051	PASS
Extreme (-30℃)		12.10	3.28	2.20	10.10	3.28	0.00346	0.00094	0.00063	0.00289	0.00094	PASS
25℃	LV	17.23	4.65	6.37	9.23	16.65	0.00492	0.00133	0.00182	0.00264	0.00476	PASS
	HV	4.85	14.21	15.95	15.85	4.21	0.00139	0.00406	0.00456	0.00453	0.00120	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.87	15.15	7.28	9.87	10.15	0.00310	0.00433	0.00208	0.00282	0.00290	PASS
Extreme (50℃)		2.28	8.74	5.29	15.28	15.74	0.00065	0.00250	0.00151	0.00436	0.00450	PASS
Extreme (40℃)		16.31	3.26	3.55	17.31	14.26	0.00466	0.00093	0.00101	0.00495	0.00407	PASS
Extreme (30℃)		14.09	14.08	16.96	9.09	16.08	0.00403	0.00402	0.00485	0.00260	0.00459	PASS
Extreme (20℃)		8.26	2.21	2.94	17.26	15.21	0.00236	0.00063	0.00084	0.00493	0.00435	PASS
Extreme (10℃)		17.57	14.21	10.75	1.57	13.21	0.00502	0.00406	0.00307	0.00045	0.00378	PASS
Extreme (0℃)		5.27	15.76	15.39	7.27	11.76	0.00150	0.00450	0.00440	0.00208	0.00336	PASS
Extreme (-10℃)		2.34	10.49	8.33	16.34	3.49	0.00067	0.00300	0.00238	0.00467	0.00100	PASS
Extreme (-20℃)		12.88	9.07	13.21	7.88	4.07	0.00368	0.00259	0.00377	0.00225	0.00116	PASS
Extreme (-30℃)		7.76	12.90	5.06	13.76	16.90	0.00222	0.00369	0.00145	0.00393	0.00483	PASS
25℃	LV	1.93	7.45	9.63	5.93	4.45	0.00055	0.00213	0.00275	0.00170	0.00127	PASS



	HV	6.76	17.84	5.13	8.76	9.84	0.00193	0.00510	0.00146	0.00250	0.00281	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	40MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.74	7.46	14.22	1.74	14.46	0.00421	0.00213	0.00406	0.00050	0.00413	PASS
Extreme (50℃)		3.89	11.20	4.36	3.89	16.20	0.00111	0.00320	0.00125	0.00111	0.00463	PASS
Extreme (40℃)		7.04	3.02	6.08	12.04	9.02	0.00201	0.00086	0.00174	0.00344	0.00258	PASS
Extreme (30℃)		13.12	3.64	4.54	2.12	16.64	0.00375	0.00104	0.00130	0.00060	0.00475	PASS
Extreme (20℃)		10.59	10.55	13.45	9.59	11.55	0.00302	0.00301	0.00384	0.00274	0.00330	PASS
Extreme (10℃)		8.04	15.00	12.67	12.04	3.00	0.00230	0.00429	0.00362	0.00344	0.00086	PASS
Extreme (0℃)		17.43	11.59	9.01	7.43	6.59	0.00498	0.00331	0.00257	0.00212	0.00188	PASS
Extreme (-10℃)		6.85	15.70	12.31	9.85	16.70	0.00196	0.00448	0.00352	0.00282	0.00477	PASS
Extreme (-20℃)		9.03	2.45	5.04	13.03	10.45	0.00258	0.00070	0.00144	0.00372	0.00299	PASS
Extreme (-30℃)		10.28	4.18	9.93	1.28	17.18	0.00294	0.00119	0.00284	0.00036	0.00491	PASS
25℃	LV	15.16	8.66	16.96	13.16	3.66	0.00433	0.00247	0.00484	0.00376	0.00105	PASS
	HV	2.78	5.59	2.40	13.78	4.59	0.00080	0.00160	0.00069	0.00394	0.00131	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	50MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.24	4.13	8.58	14.24	7.13	0.00493	0.00118	0.00245	0.00407	0.00204	PASS
Extreme (50℃)		3.95	7.37	13.15	6.95	7.37	0.00113	0.00211	0.00376	0.00198	0.00211	PASS
Extreme (40℃)		9.68	16.91	12.08	11.68	10.91	0.00277	0.00483	0.00345	0.00334	0.00312	PASS
Extreme (30℃)		9.15	9.28	3.10	17.15	7.28	0.00261	0.00265	0.00089	0.00490	0.00208	PASS
Extreme (20℃)		14.34	16.69	1.89	5.34	11.69	0.00410	0.00477	0.00054	0.00153	0.00334	PASS
Extreme (10℃)		8.54	13.04	4.97	2.54	4.04	0.00244	0.00373	0.00142	0.00072	0.00115	PASS
Extreme (0℃)		13.52	14.04	6.37	16.52	8.04	0.00386	0.00401	0.00182	0.00472	0.00230	PASS
Extreme (-10℃)		10.31	5.10	13.99	14.31	4.10	0.00295	0.00146	0.00400	0.00409	0.00117	PASS
Extreme (-20℃)		10.81	6.76	3.83	17.81	11.76	0.00309	0.00193	0.00109	0.00509	0.00336	PASS
Extreme (-30℃)		4.04	15.19	11.80	11.04	6.19	0.00115	0.00434	0.00337	0.00315	0.00177	PASS
25℃	LV	3.81	14.71	7.56	12.81	9.71	0.00109	0.00420	0.00216	0.00366	0.00277	PASS
	HV	9.33	2.07	6.63	9.33	14.07	0.00267	0.00059	0.00189	0.00267	0.00402	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	60MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	9.31	7.97	12.05	12.31	8.97	0.00266	0.00228	0.00344	0.00352	0.00256	PASS
Extreme (50℃)		8.64	8.04	3.08	15.64	1.04	0.00247	0.00230	0.00088	0.00447	0.00030	PASS
Extreme (40℃)		17.37	12.41	8.44	15.37	13.41	0.00496	0.00355	0.00241	0.00439	0.00383	PASS
Extreme (30℃)		12.50	5.36	6.80	8.50	14.36	0.00357	0.00153	0.00194	0.00243	0.00410	PASS



Extreme (20℃)		9.64	3.06	12.93	1.64	15.06	0.00275	0.00088	0.00369	0.00047	0.00430	PASS
Extreme (10℃)		7.81	3.80	13.40	4.81	13.80	0.00223	0.00108	0.00383	0.00138	0.00394	PASS
Extreme (0℃)		11.44	10.00	9.92	1.44	2.00	0.00327	0.00286	0.00283	0.00041	0.00057	PASS
Extreme (-10℃)		17.80	5.20	15.66	16.80	5.20	0.00509	0.00149	0.00447	0.00480	0.00149	PASS
Extreme (-20℃)		11.76	17.06	14.62	5.76	15.06	0.00336	0.00487	0.00418	0.00165	0.00430	PASS
Extreme (-30℃)		7.01	8.80	6.69	7.01	2.80	0.00200	0.00252	0.00191	0.00200	0.00080	PASS
25℃	LV	12.86	17.37	4.67	13.86	6.37	0.00367	0.00496	0.00133	0.00396	0.00182	PASS
	HV	7.49	12.69	4.07	12.49	12.69	0.00214	0.00363	0.00116	0.00357	0.00363	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	70MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.15	7.77	1.66	3.15	4.77	0.00404	0.00222	0.00047	0.00090	0.00136	PASS
Extreme (50℃)		3.35	12.54	15.45	7.35	14.54	0.00096	0.00358	0.00441	0.00210	0.00415	PASS
Extreme (40℃)		1.58	16.97	6.88	7.58	11.97	0.00045	0.00485	0.00197	0.00216	0.00342	PASS
Extreme (30℃)		3.87	17.84	2.93	9.87	9.84	0.00110	0.00510	0.00084	0.00282	0.00281	PASS
Extreme (20℃)		12.36	2.17	2.27	1.36	6.17	0.00353	0.00062	0.00065	0.00039	0.00176	PASS
Extreme (10℃)		13.77	13.26	14.27	6.77	3.26	0.00393	0.00379	0.00408	0.00193	0.00093	PASS
Extreme (0℃)		6.47	8.52	5.76	11.47	2.52	0.00185	0.00244	0.00165	0.00328	0.00072	PASS
Extreme (-10℃)		2.08	1.23	17.45	3.08	8.23	0.00059	0.00035	0.00498	0.00088	0.00235	PASS
Extreme (-20℃)		5.12	6.17	11.24	1.12	9.17	0.00146	0.00176	0.00321	0.00032	0.00262	PASS
Extreme (-30℃)		5.30	1.91	5.67	11.30	1.91	0.00151	0.00055	0.00162	0.00323	0.00055	PASS
25℃	LV	12.12	4.34	10.32	8.12	13.34	0.00346	0.00124	0.00295	0.00232	0.00381	PASS
	HV	1.74	8.41	8.20	17.74	2.41	0.00050	0.00240	0.00234	0.00507	0.00069	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	80MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.45	9.18	5.27	14.45	12.18	0.00184	0.00262	0.00150	0.00413	0.00348	PASS
Extreme (50℃)		4.19	8.16	12.89	17.19	17.16	0.00120	0.00233	0.00368	0.00491	0.00490	PASS
Extreme (40℃)		6.33	9.41	3.10	8.33	2.41	0.00181	0.00269	0.00089	0.00238	0.00069	PASS
Extreme (30℃)		10.92	9.66	13.35	16.92	12.66	0.00312	0.00276	0.00381	0.00483	0.00362	PASS
Extreme (20℃)		4.60	7.92	10.02	14.60	5.92	0.00131	0.00226	0.00286	0.00417	0.00169	PASS
Extreme (10℃)		2.26	15.03	15.02	9.26	6.03	0.00064	0.00429	0.00429	0.00264	0.00172	PASS
Extreme (0℃)		4.80	1.11	13.68	11.80	17.11	0.00137	0.00032	0.00391	0.00337	0.00489	PASS
Extreme (-10℃)		10.53	1.29	6.48	12.53	4.29	0.00301	0.00037	0.00185	0.00358	0.00122	PASS
Extreme (-20℃)		9.19	9.07	6.24	15.19	17.07	0.00262	0.00259	0.00178	0.00434	0.00488	PASS
Extreme (-30℃)		11.96	17.72	3.89	12.96	8.72	0.00342	0.00506	0.00111	0.00370	0.00249	PASS
25℃	LV	7.99	8.54	2.90	14.99	5.54	0.00228	0.00244	0.00083	0.00428	0.00158	PASS
	HV	3.77	15.39	10.02	16.77	10.39	0.00108	0.00440	0.00286	0.00479	0.00297	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict



BANDWIDTH	90MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
		256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.29	16.73	7.68	10.29	9.73	0.00380	0.00478	0.00219	0.00294	0.00278	PASS
Extreme (50℃)		13.20	6.28	3.79	15.20	15.28	0.00377	0.00179	0.00108	0.00434	0.00437	PASS
Extreme (40℃)		17.19	12.93	16.35	8.19	15.93	0.00491	0.00369	0.00467	0.00234	0.00455	PASS
Extreme (30℃)		12.02	7.30	2.33	1.02	13.30	0.00343	0.00209	0.00066	0.00029	0.00380	PASS
Extreme (20℃)		6.18	2.74	15.45	5.18	9.74	0.00177	0.00078	0.00442	0.00148	0.00278	PASS
Extreme (10℃)		16.81	11.28	10.45	11.81	16.28	0.00480	0.00322	0.00299	0.00338	0.00465	PASS
Extreme (0℃)		14.71	11.28	4.39	13.71	13.28	0.00420	0.00322	0.00125	0.00392	0.00379	PASS
Extreme (-10℃)		13.73	14.67	3.54	16.73	13.67	0.00392	0.00419	0.00101	0.00478	0.00391	PASS
Extreme (-20℃)		1.05	13.37	11.73	1.05	11.37	0.00030	0.00382	0.00335	0.00030	0.00325	PASS
Extreme (-30℃)		11.46	1.50	6.12	8.46	5.50	0.00327	0.00043	0.00175	0.00242	0.00157	PASS
25℃	LV	9.82	14.89	16.45	8.82	8.89	0.00281	0.00425	0.00470	0.00252	0.00254	PASS
	HV	13.63	4.61	12.99	14.63	7.61	0.00389	0.00132	0.00371	0.00418	0.00217	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	100MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.19	11.00	17.93	4.19	1.00	0.00091	0.00314	0.00512	0.00120	0.00029	PASS
Extreme (50℃)		15.07	17.70	14.40	13.07	4.70	0.00430	0.00506	0.00411	0.00373	0.00134	PASS
Extreme (40℃)		2.91	6.32	9.06	12.91	2.32	0.00083	0.00181	0.00259	0.00369	0.00066	PASS
Extreme (30℃)		8.59	7.87	9.21	4.59	14.87	0.00245	0.00225	0.00263	0.00131	0.00425	PASS
Extreme (20℃)		8.38	12.44	11.97	6.38	8.44	0.00239	0.00355	0.00342	0.00182	0.00241	PASS
Extreme (10℃)		15.99	4.96	5.97	7.99	12.96	0.00457	0.00142	0.00171	0.00228	0.00370	PASS
Extreme (0℃)		17.45	10.77	10.74	14.45	7.77	0.00499	0.00308	0.00307	0.00413	0.00222	PASS
Extreme (-10℃)		10.51	5.26	15.42	5.51	6.26	0.00300	0.00150	0.00440	0.00158	0.00179	PASS
Extreme (-20℃)		7.05	17.67	8.12	15.05	5.67	0.00202	0.00505	0.00232	0.00430	0.00162	PASS
Extreme (-30℃)		11.22	4.46	14.77	10.22	7.46	0.00321	0.00127	0.00422	0.00292	0.00213	PASS
25℃	LV	6.55	15.25	16.44	5.55	1.25	0.00187	0.00436	0.00470	0.00159	0.00036	PASS
	HV	8.87	15.84	12.40	5.87	7.84	0.00253	0.00453	0.00354	0.00168	0.00224	PASS

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Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	11.05	7.51	2.76	11.05	6.51	0.00316	0.00215	0.00079	0.00316	0.00186	PASS
Extreme (50℃)		2.52	6.31	3.63	9.52	15.31	0.00072	0.00180	0.00104	0.00272	0.00437	PASS
Extreme (40℃)		7.62	9.03	16.54	3.62	4.03	0.00218	0.00258	0.00473	0.00103	0.00115	PASS