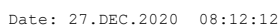




```
* RBW 100 kHz      Marker 1 [T1 ]
* VBW 300 kHz      -31.26 dBm
* SWT 1 s          1.910000000 GHz
```



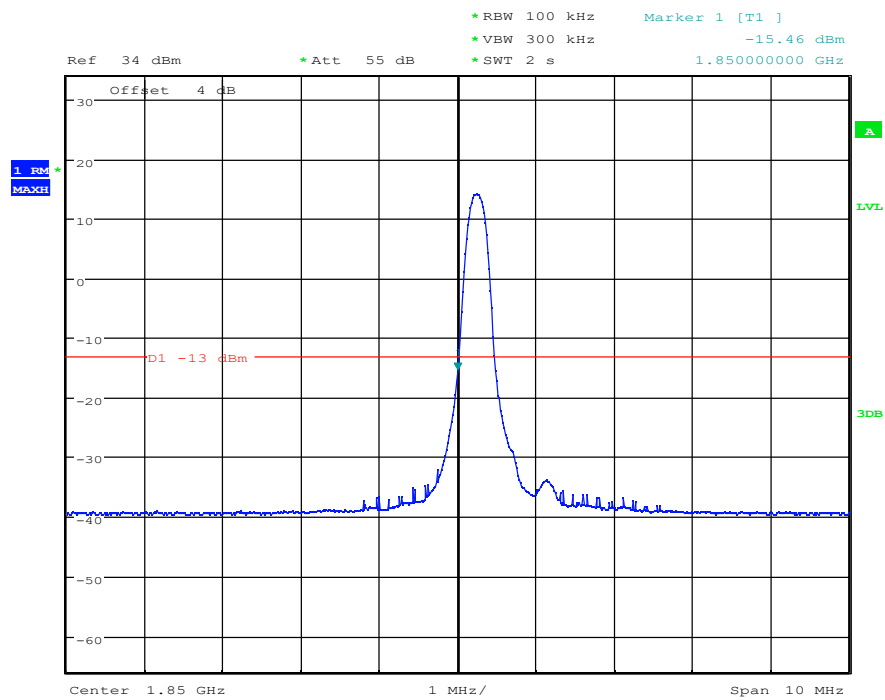
```
*RBW 100 kHz      Marker 1 [T1 ]
*VBW 300 kHz      -29.96 dBm
*SWT 1 s          1.910000000 GHz
```



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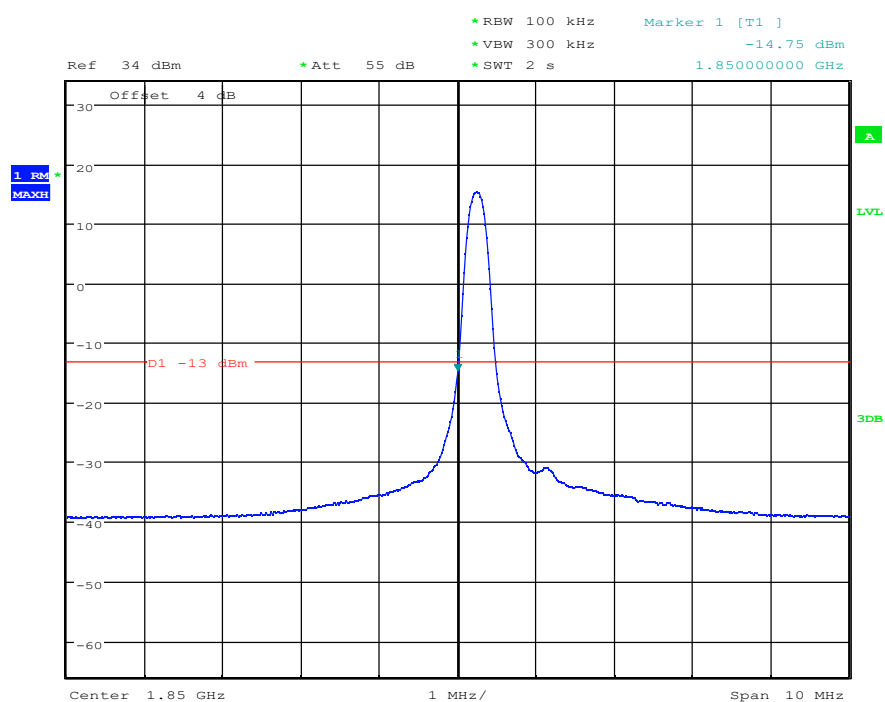


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 04:32:29

Band2-Low Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 04:28:02

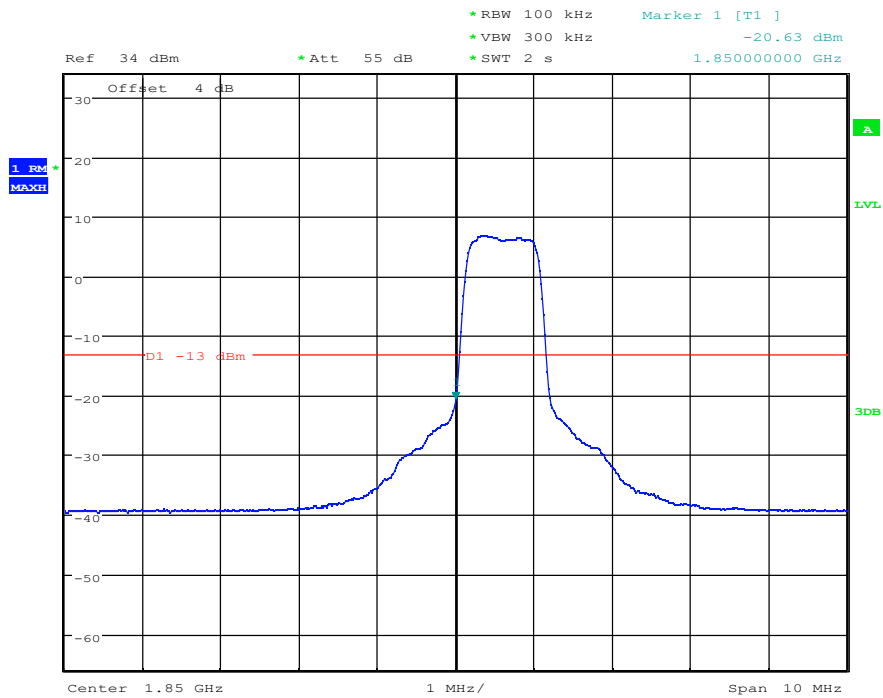
Band2-Low Channel-1.4MHz Bandwidth-1RB-QPSK

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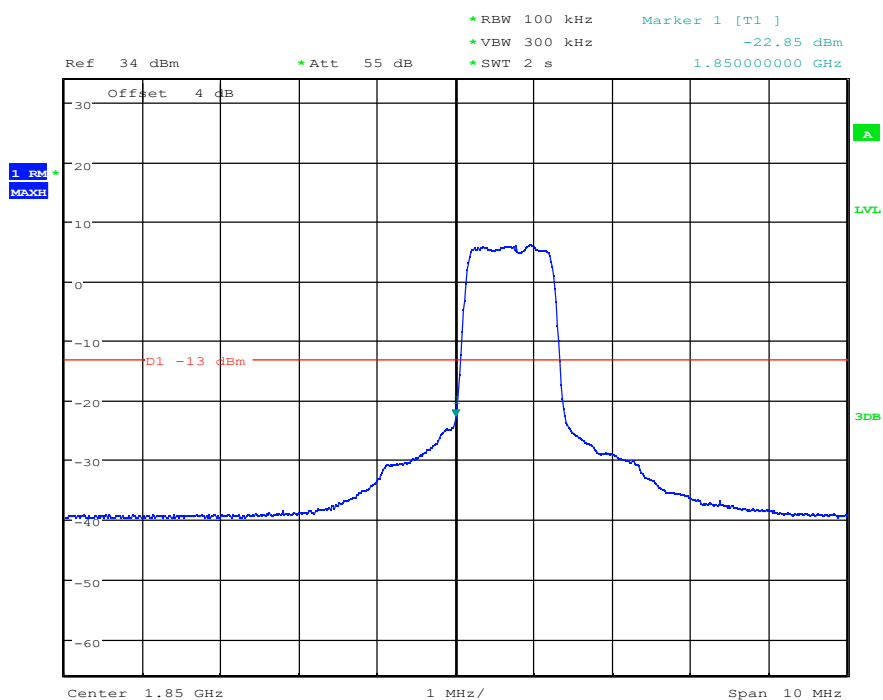


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 04:31:16

Band2-Low Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 04:28:58

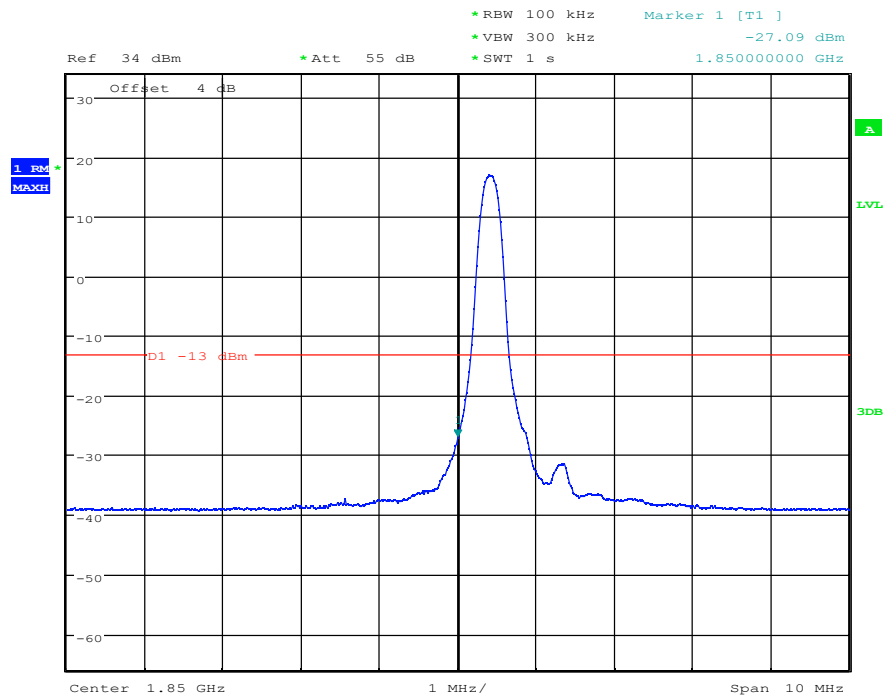
Band2-Low Channel-1.4MHz Bandwidth-6RB-QPSK

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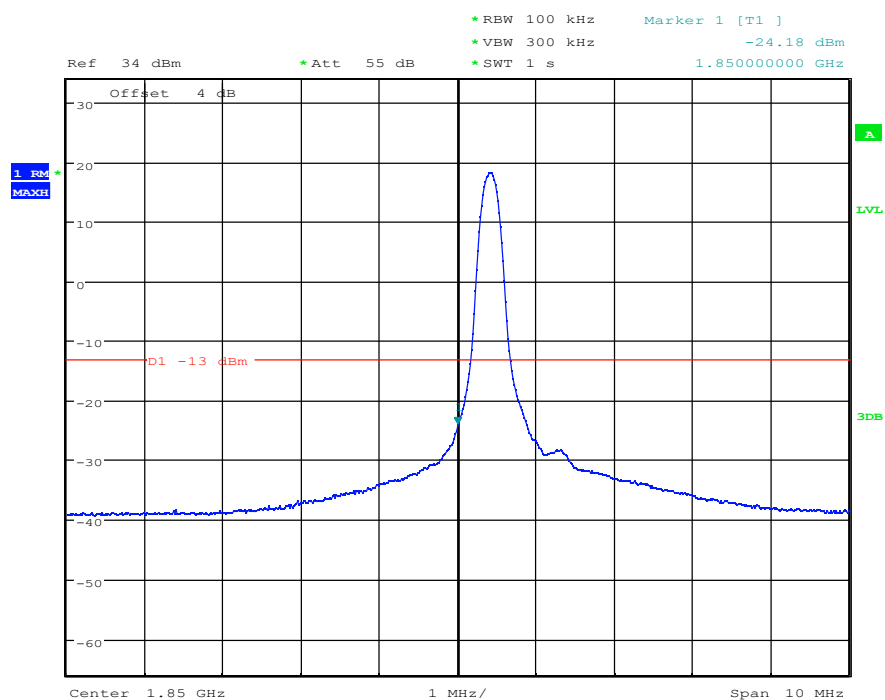


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:17:16

Band2-Low Channel-3MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 05:13:47

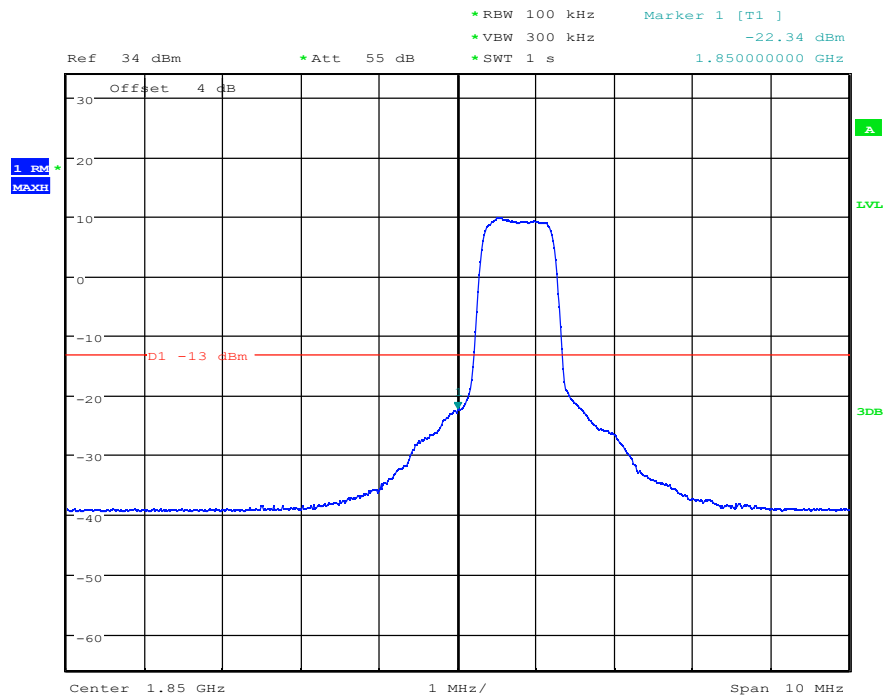
Band2-Low Channel-3MHz Bandwidth-1RB-QPSK

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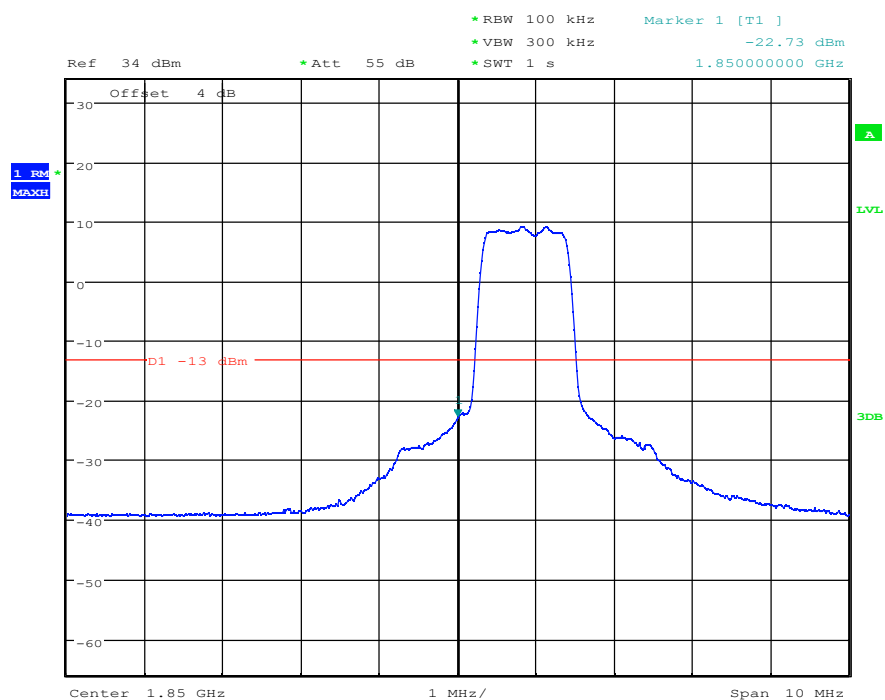


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:18:17

Band2-Low Channel-3MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 05:11:26

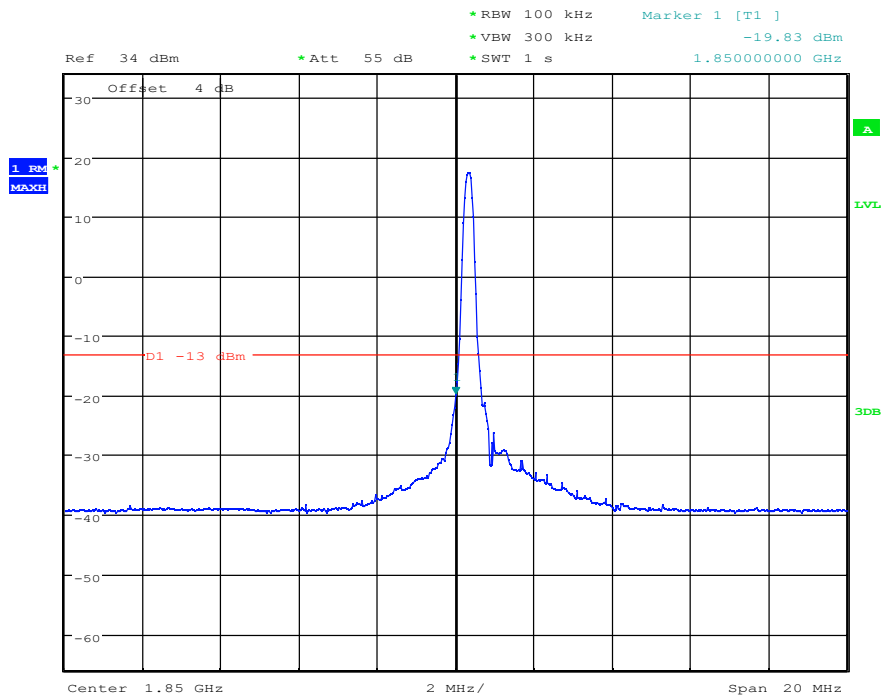
Band2-Low Channel-3MHz Bandwidth-6RB-QPSK

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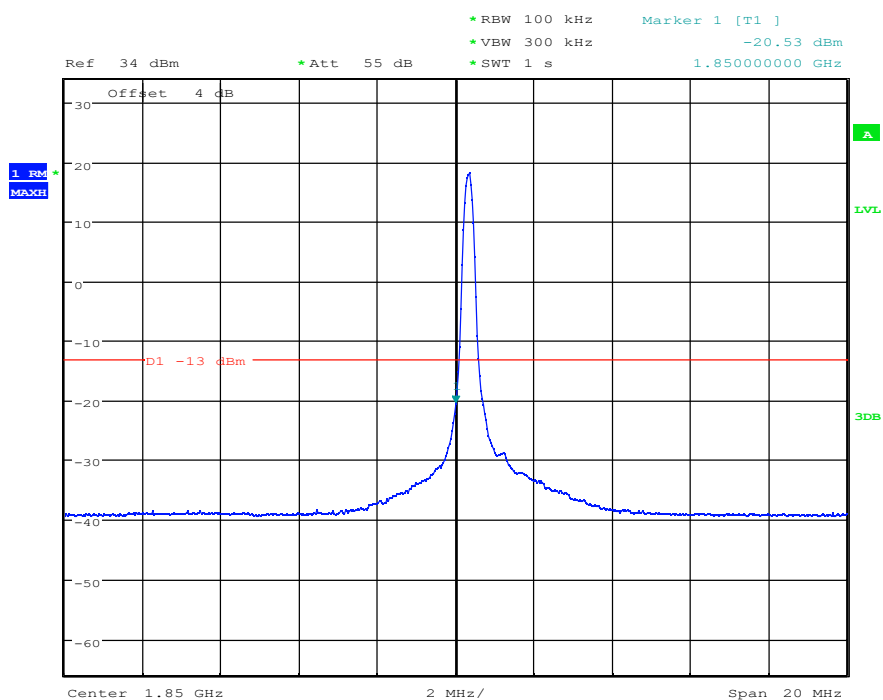


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:49:36

Band2-Low Channel-5MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 05:52:55

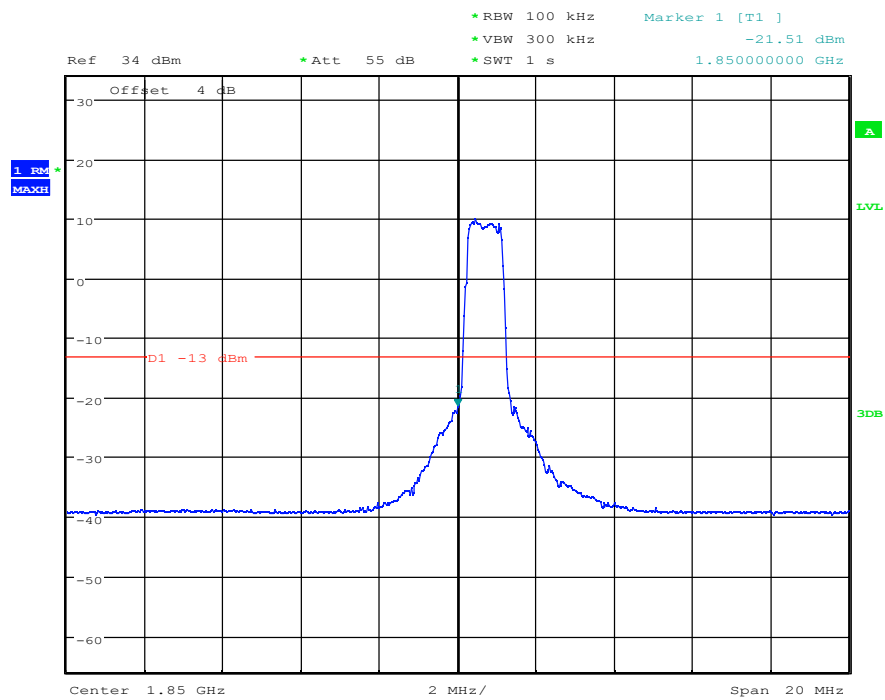
Band2-Low Channel-5MHz Bandwidth-1RB-QPSK

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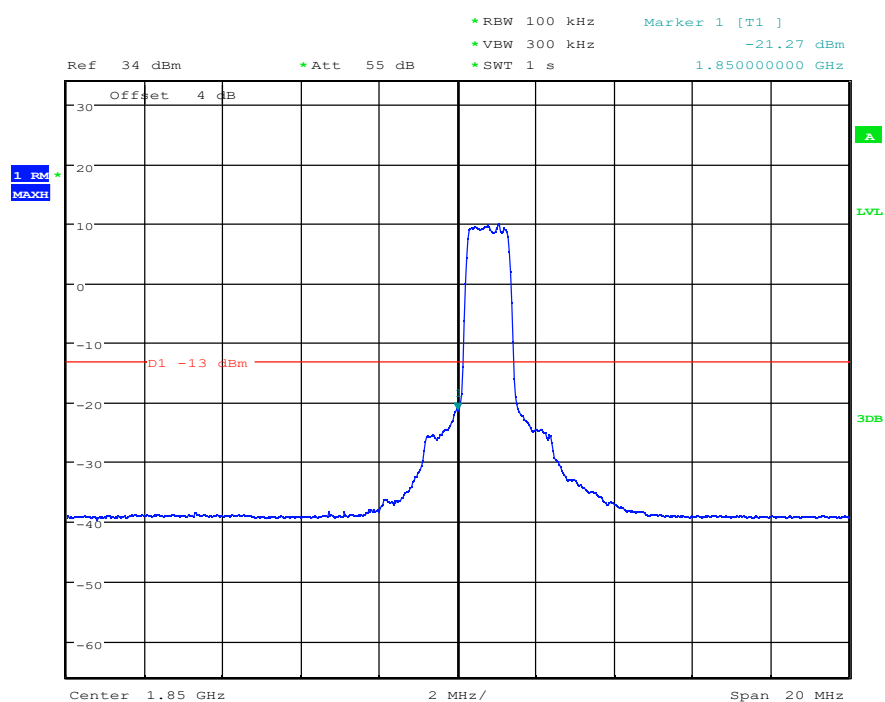


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:50:21

Band2-Low Channel-5MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 05:51:34

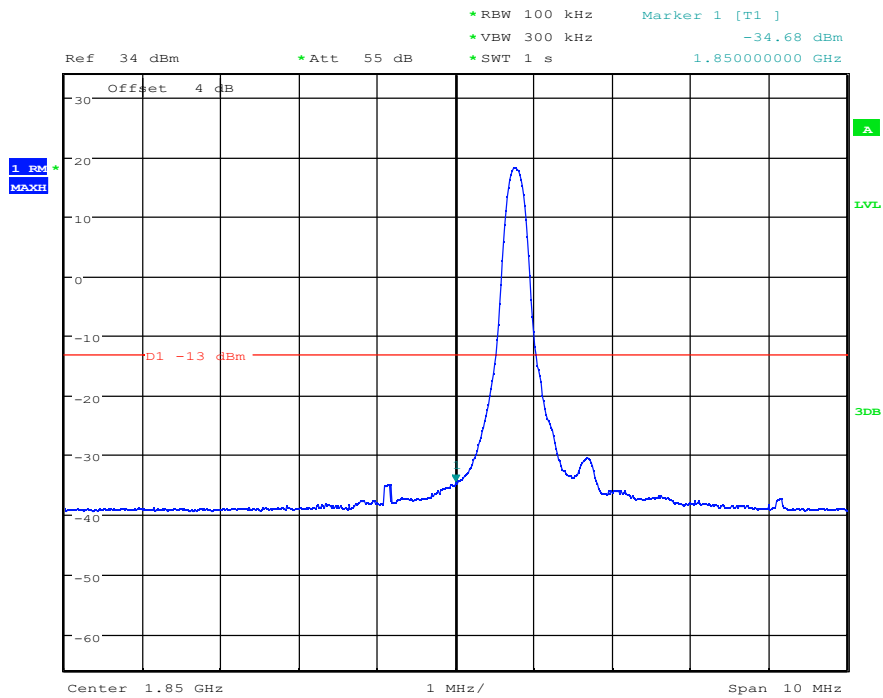
Band2-Low Channel-5MHz Bandwidth-6RB-QPSK

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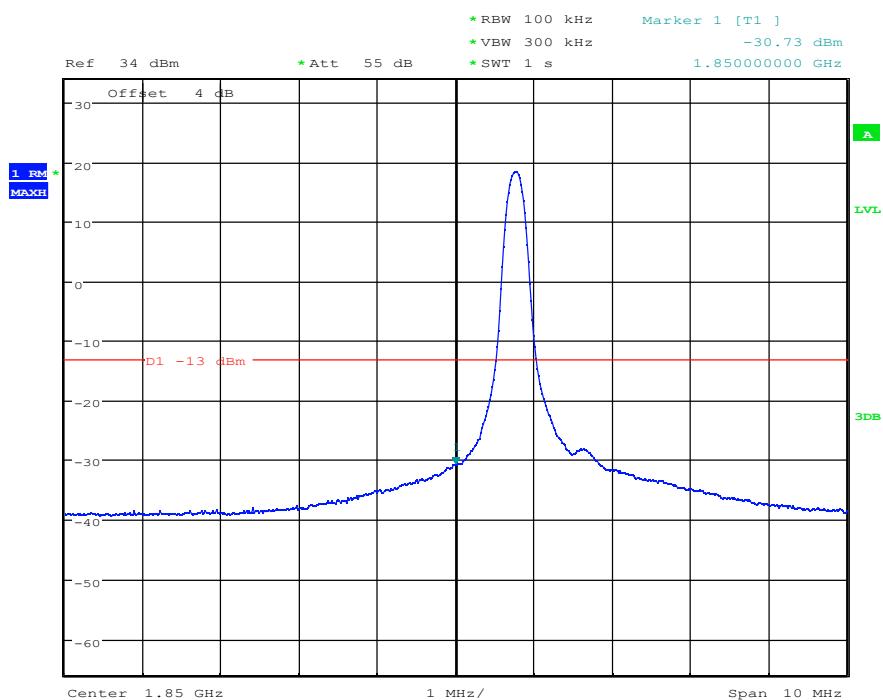


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 07:13:42

Band2-Low Channel-10MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 07:12:23

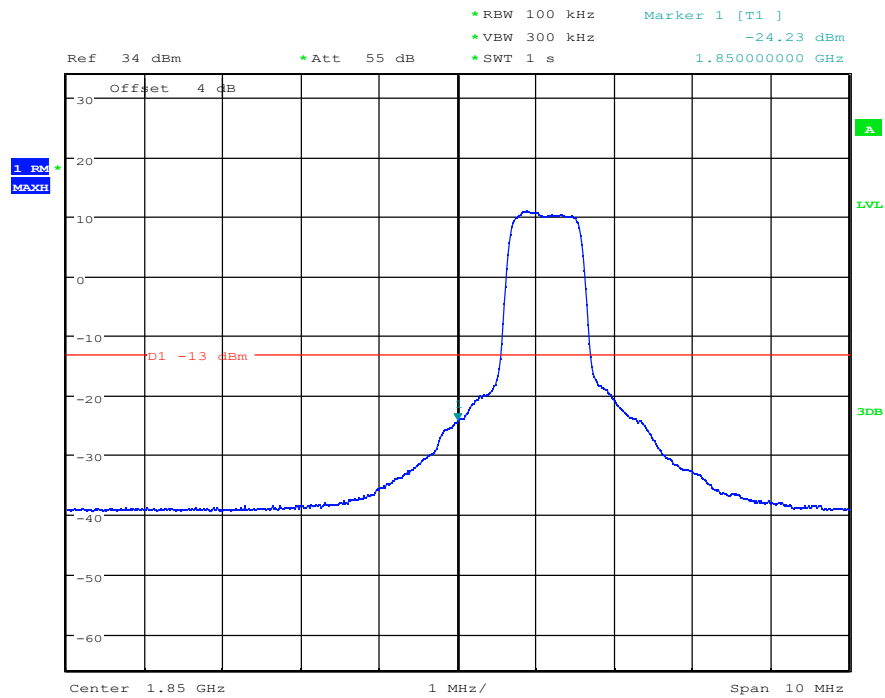
Band2-Low Channel-10MHz Bandwidth-1RB-QPSK

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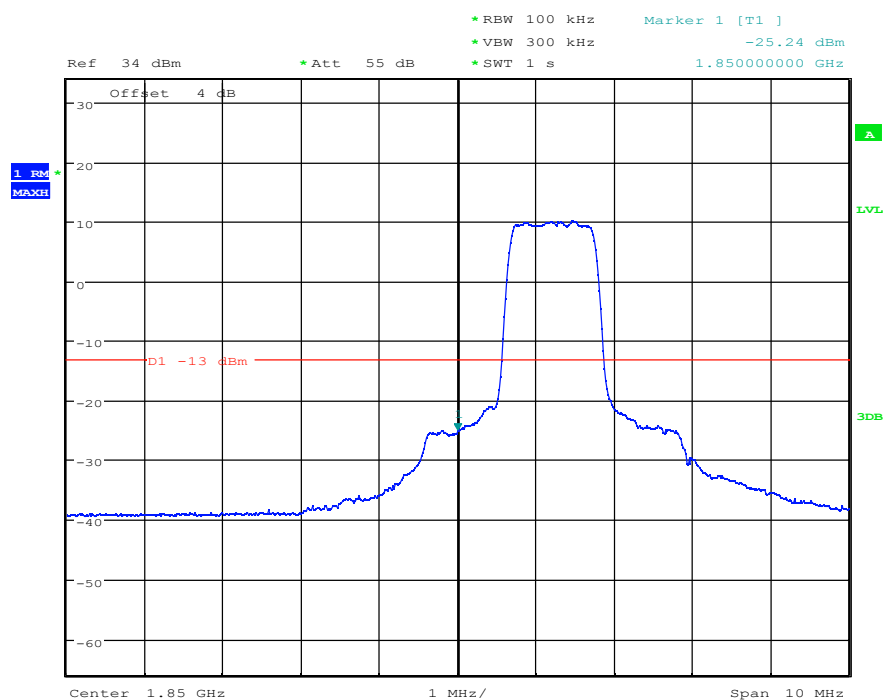


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 07:14:59

Band2-Low Channel-10MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 07:10:37

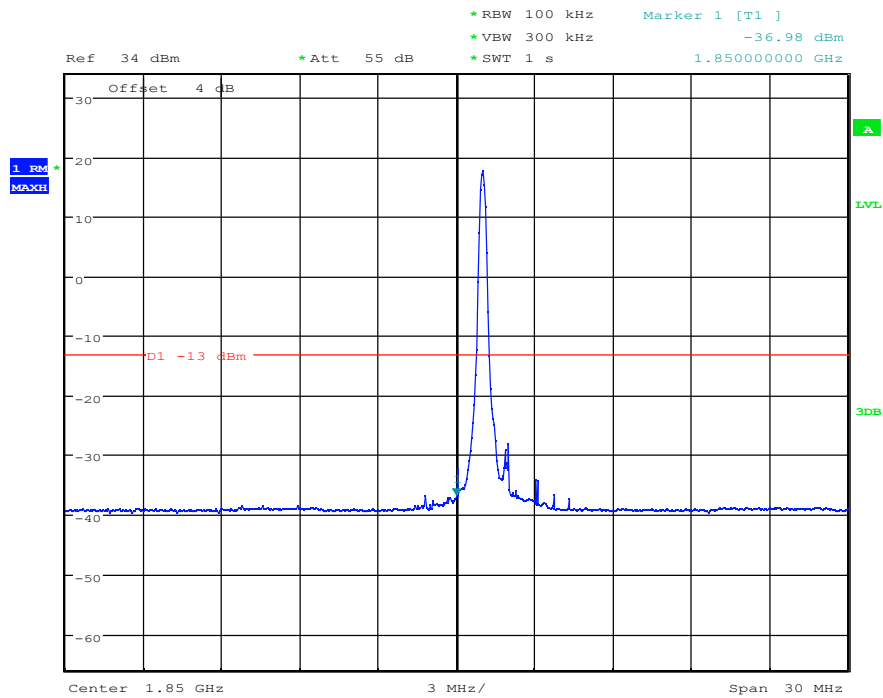
Band2-Low Channel-10MHz Bandwidth-6RB-QPSK

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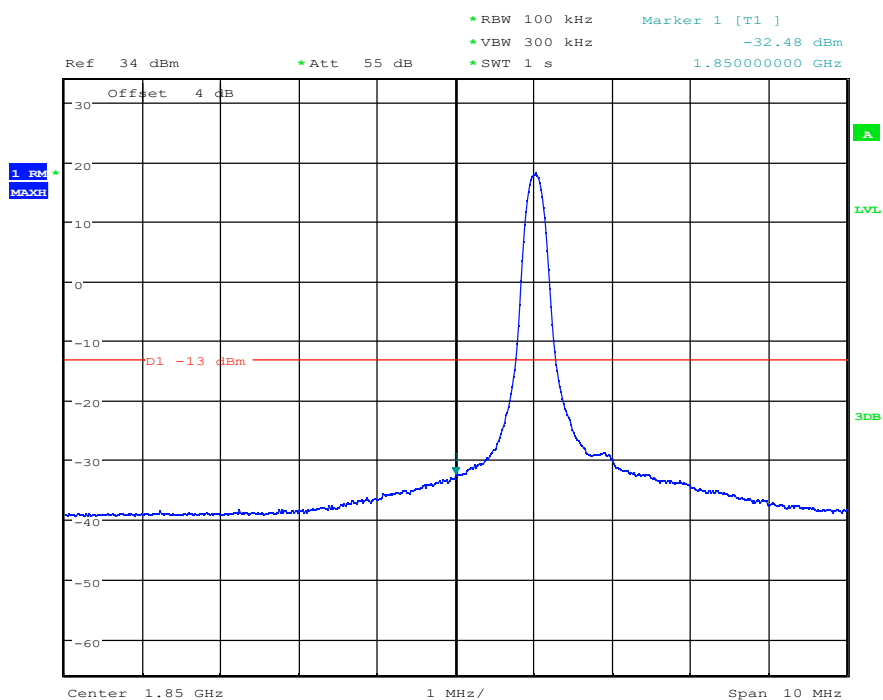


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 07:56:35

Band2-Low Channel-15MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 07:57:49

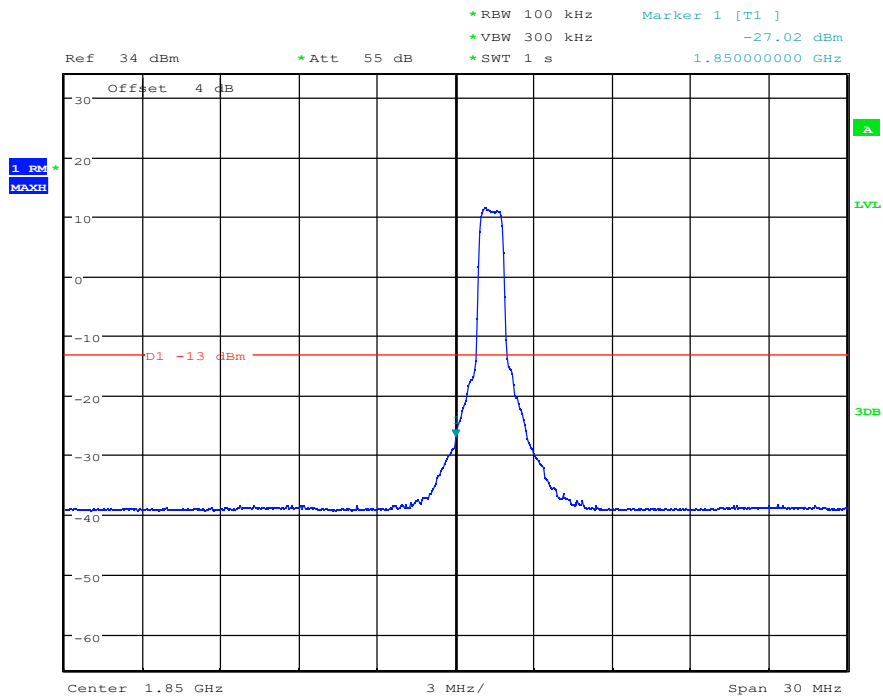
Band2-Low Channel-15MHz Bandwidth-1RB-QPSK

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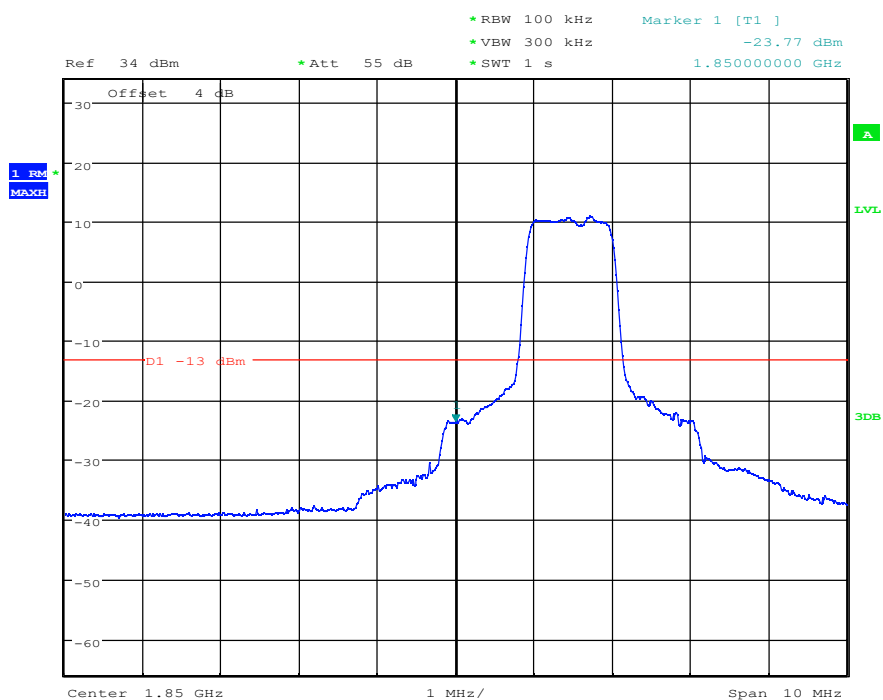


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 07:55:50

Band2-Low Channel-15MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 07:58:32

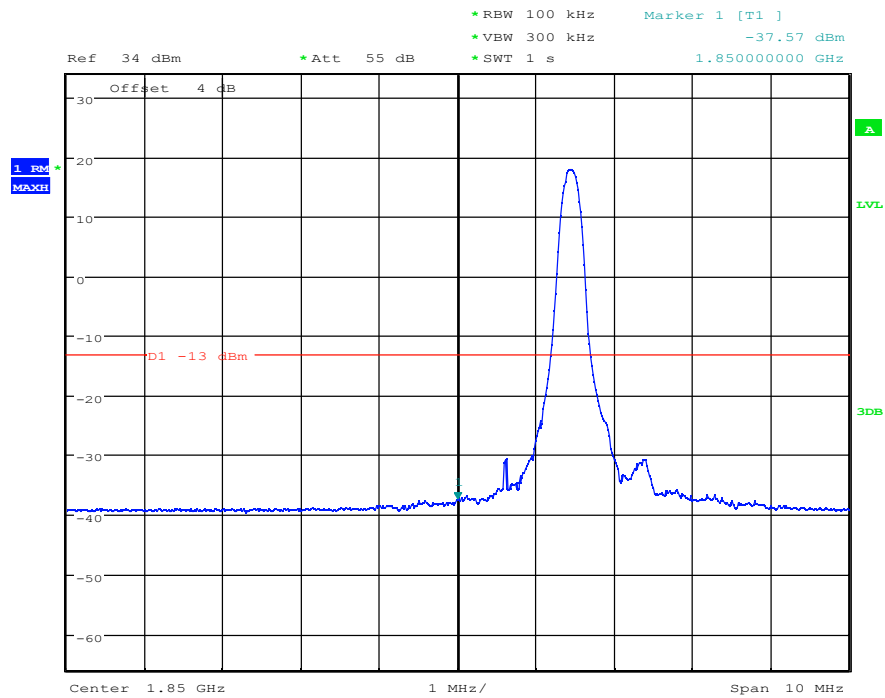
Band2-Low Channel-15MHz Bandwidth-6RB-QPSK

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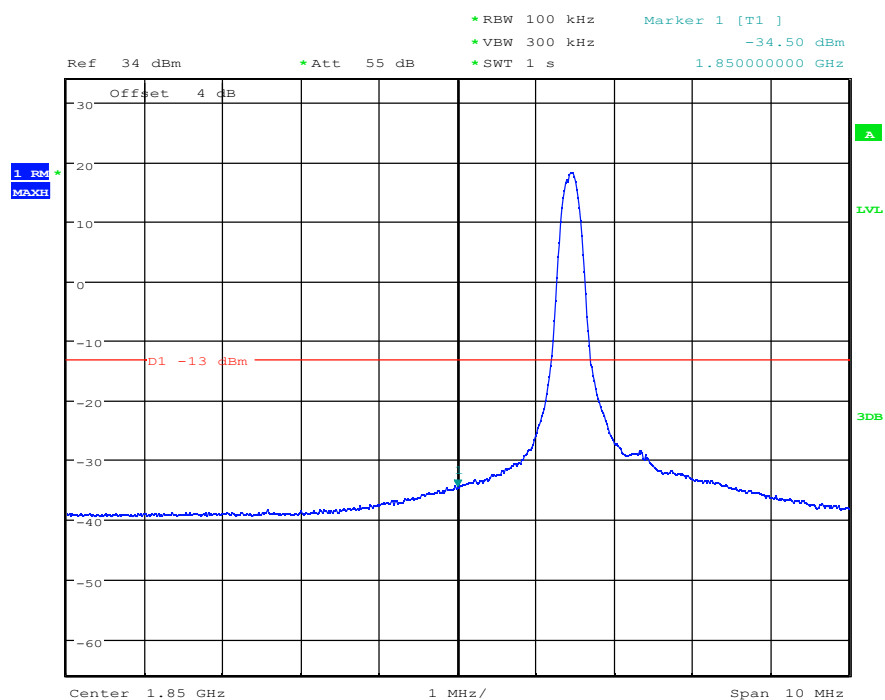


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:03:08

Band2-Low Channel-20MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:02:23

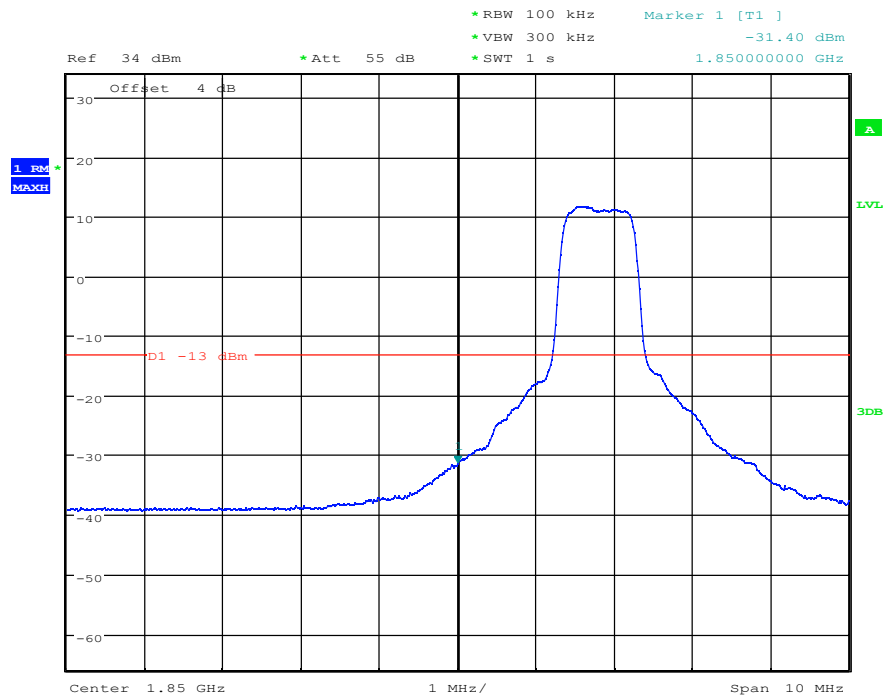
Band2-Low Channel-20MHz Bandwidth-1RB-QPSK

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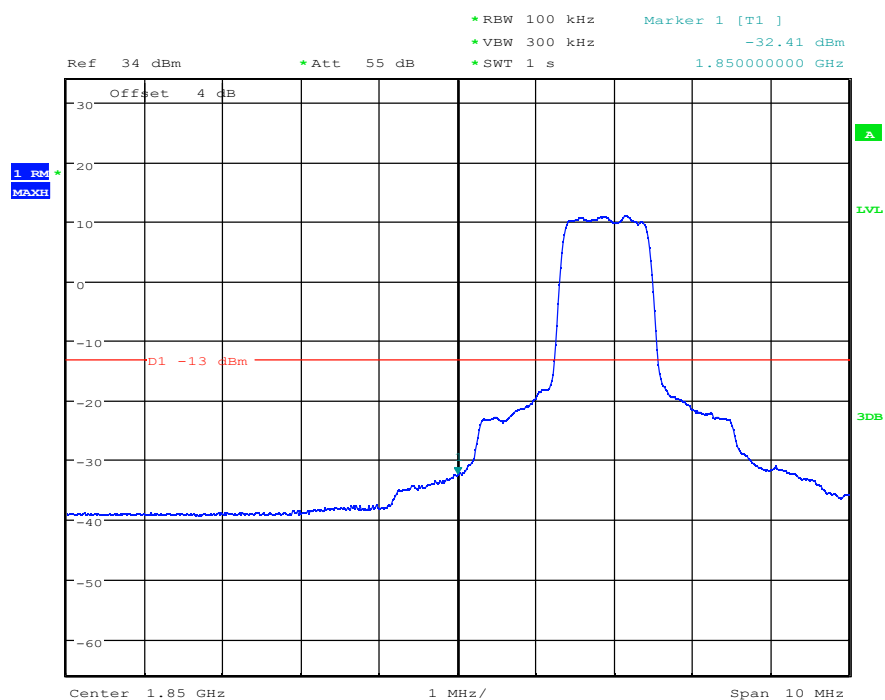


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:05:04

Band2-Low Channel-20MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 08:01:41

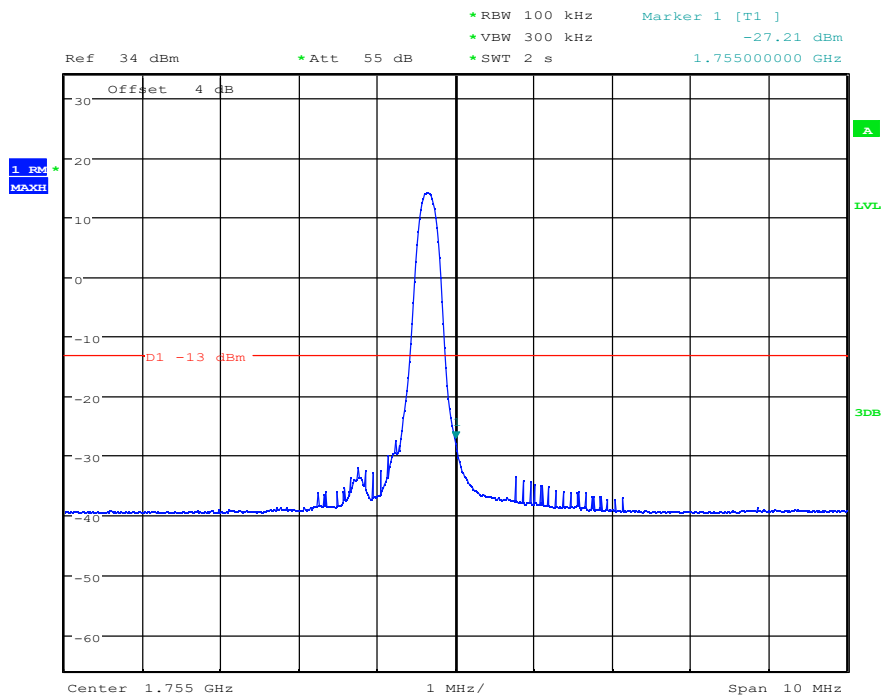
Band2-Low Channel-20MHz Bandwidth-6RB-QPSK

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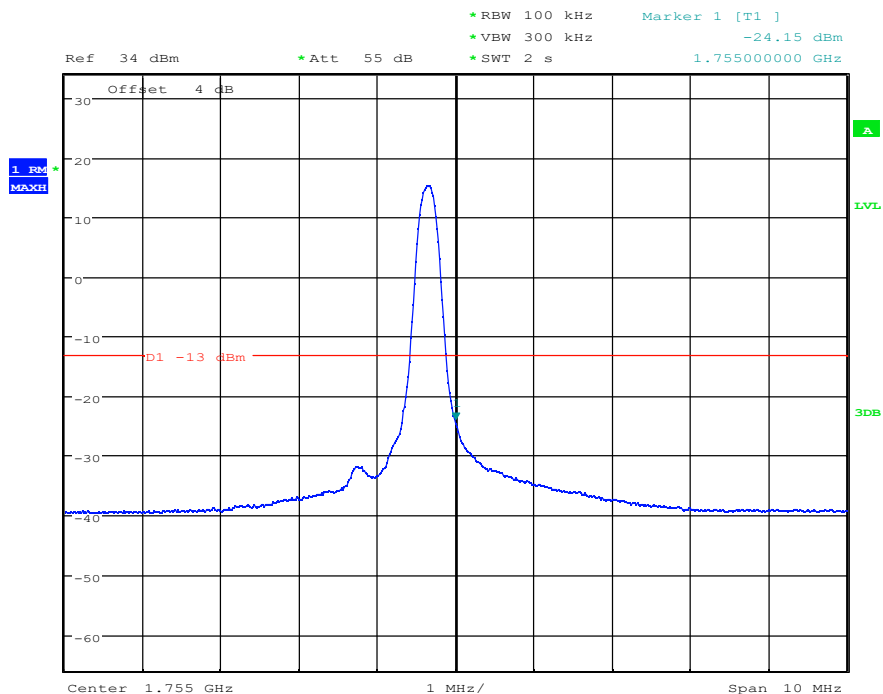
Report No.: I21W00004-WWAN_Rev2

5.5.4 CAT-M Band4 Edge Results



Date: 27.DEC.2020 08:40:00

Band4-High Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:40:51

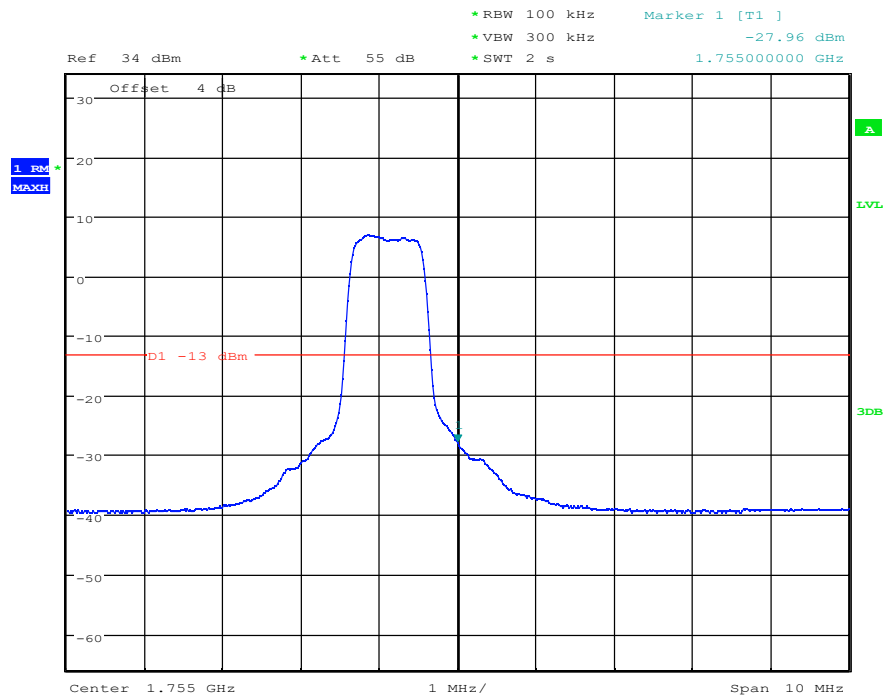
Band4-High Channel-1.4MHz Bandwidth-1RB-QPSK

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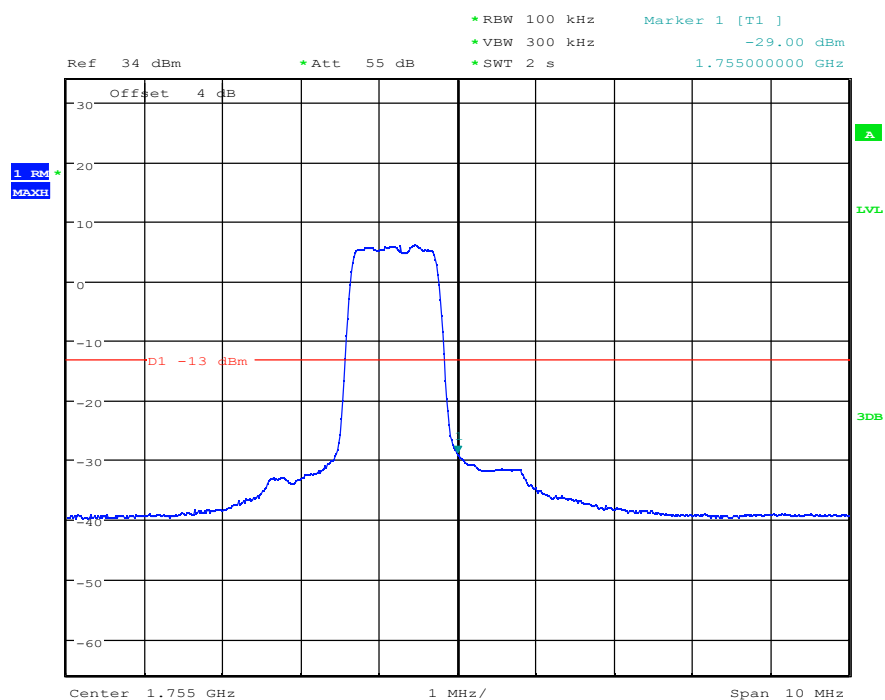


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:38:52

Band4-High Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 08:41:41

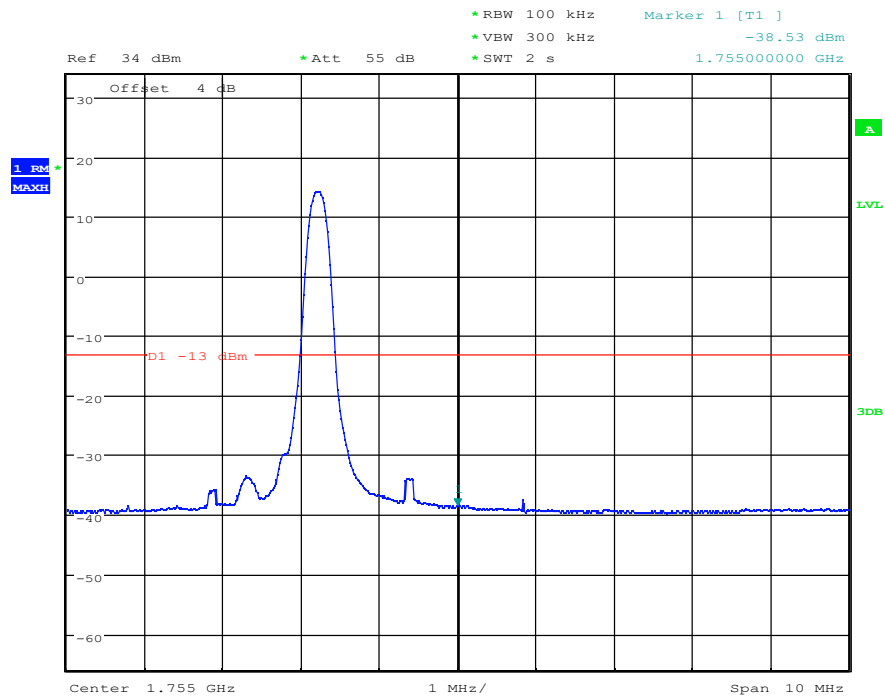
Band4-High Channel-1.4MHz Bandwidth-6RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

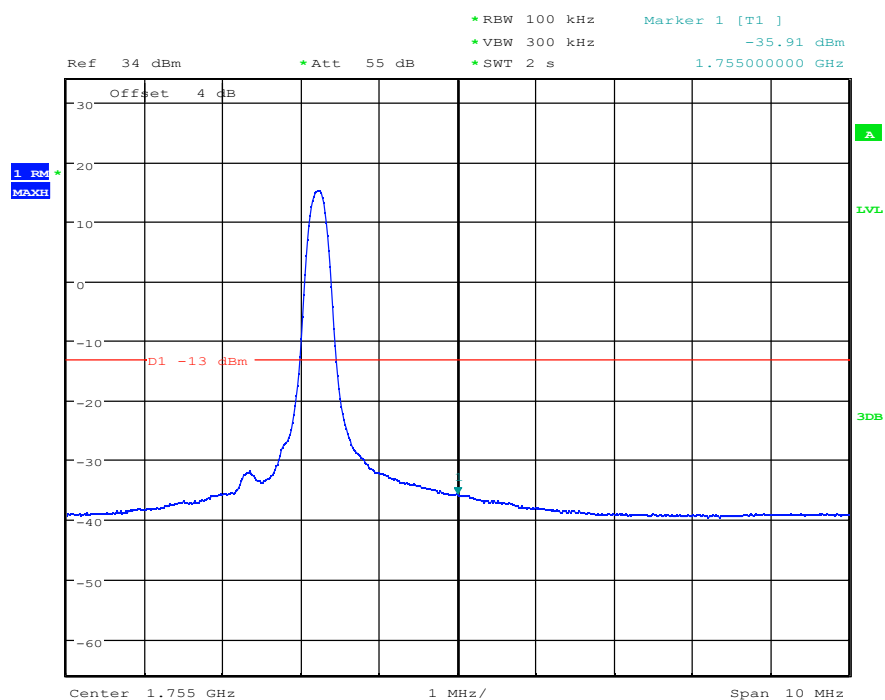


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 09:38:51

Band4-High Channel-3MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 09:40:55

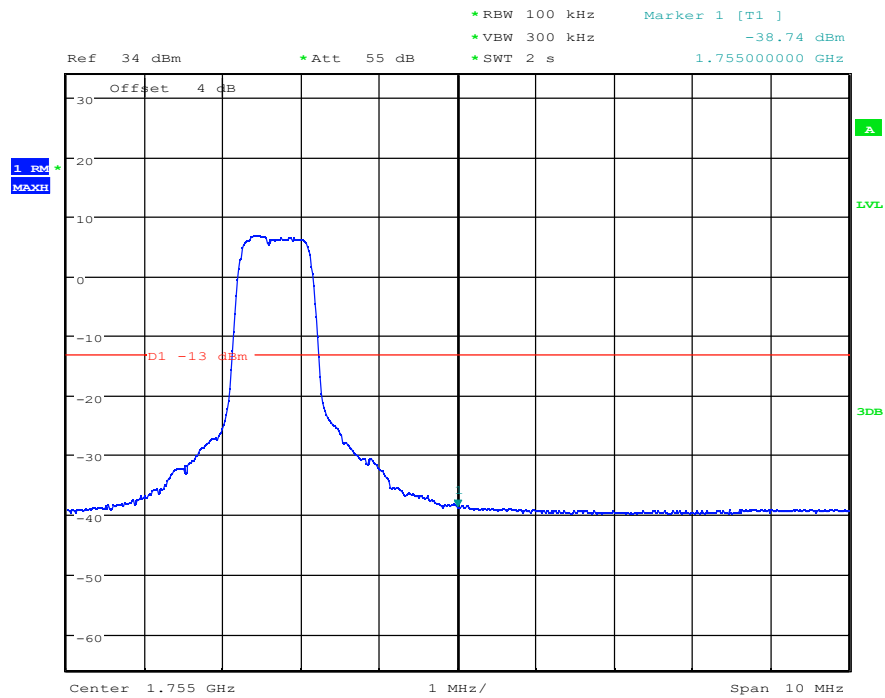
Band4-High Channel-3MHz Bandwidth-1RB-QPSK

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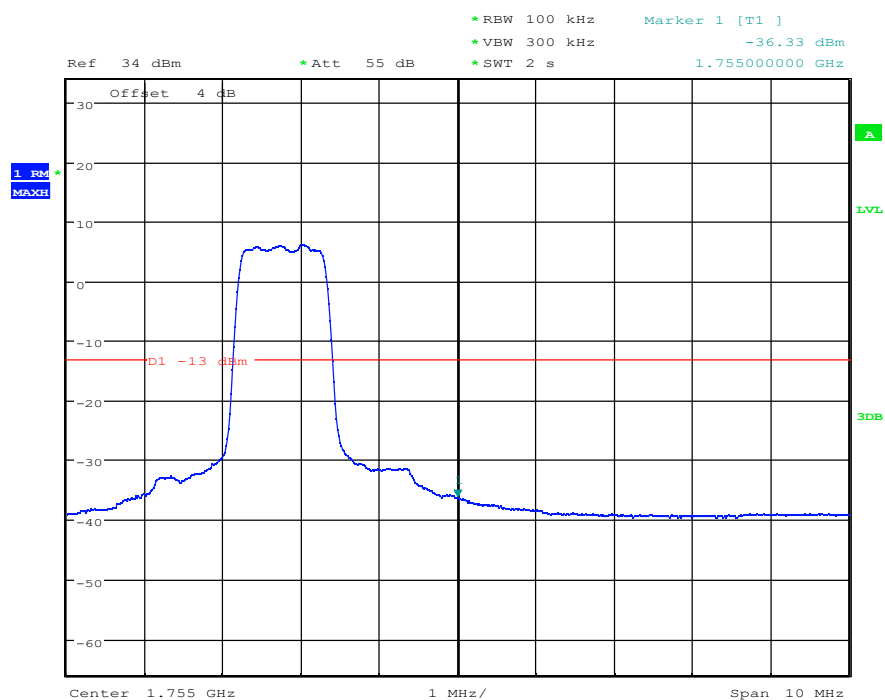


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:29:39

Band4-High Channel-3MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 09:44:19

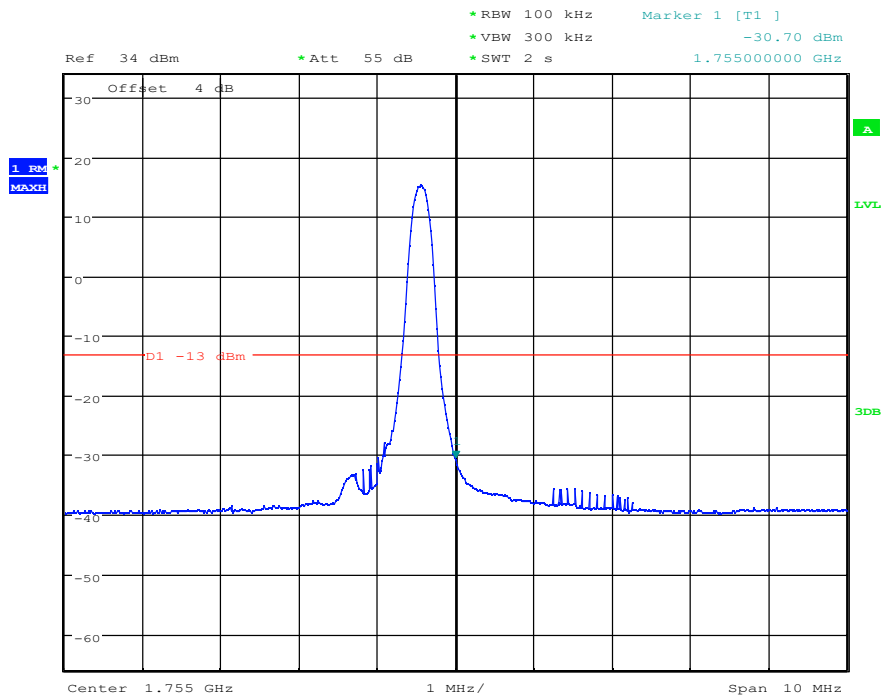
Band4-High Channel-3MHz Bandwidth-6RB-QPSK

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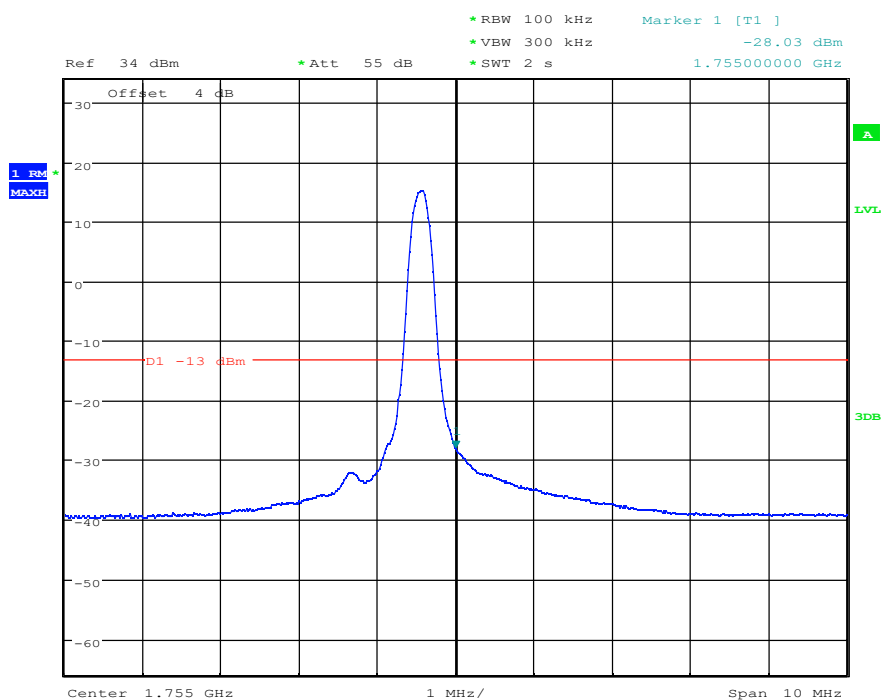


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 09:56:48

Band4-High Channel-5MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 09:57:51

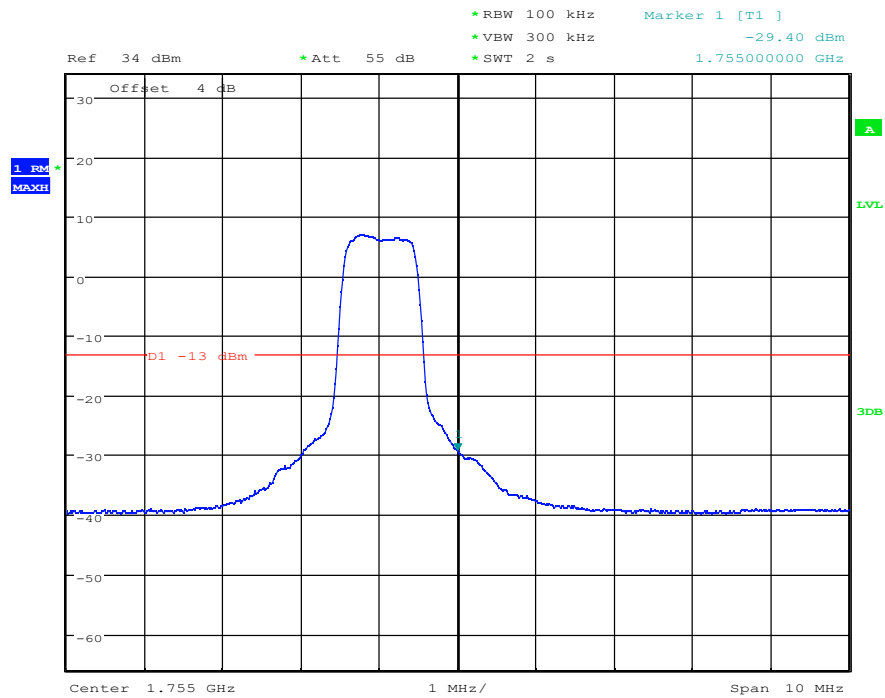
Band4-High Channel-5MHz Bandwidth-1RB-QPSK

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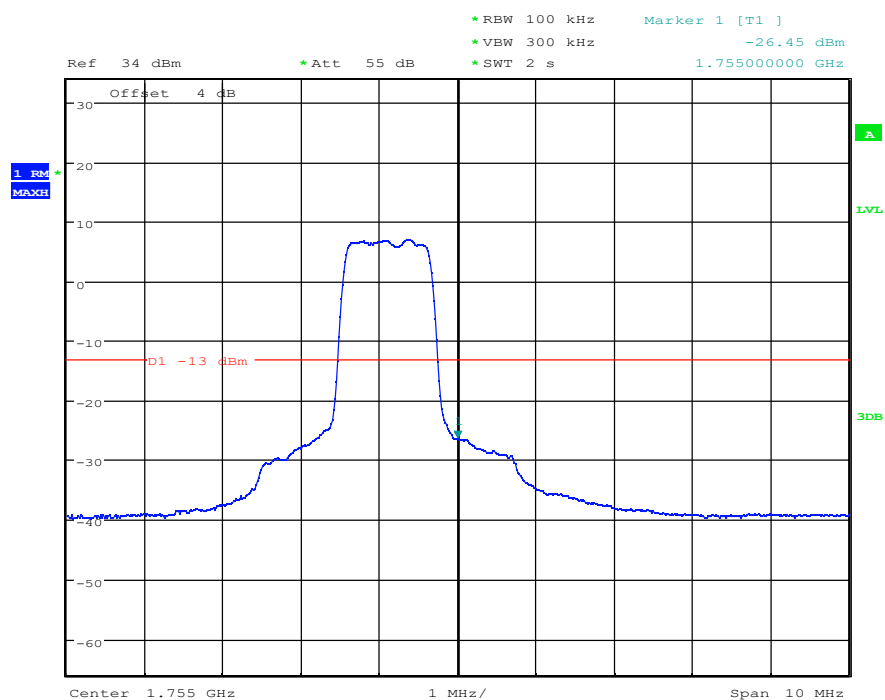


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 09:55:53

Band4-High Channel-5MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 09:58:40

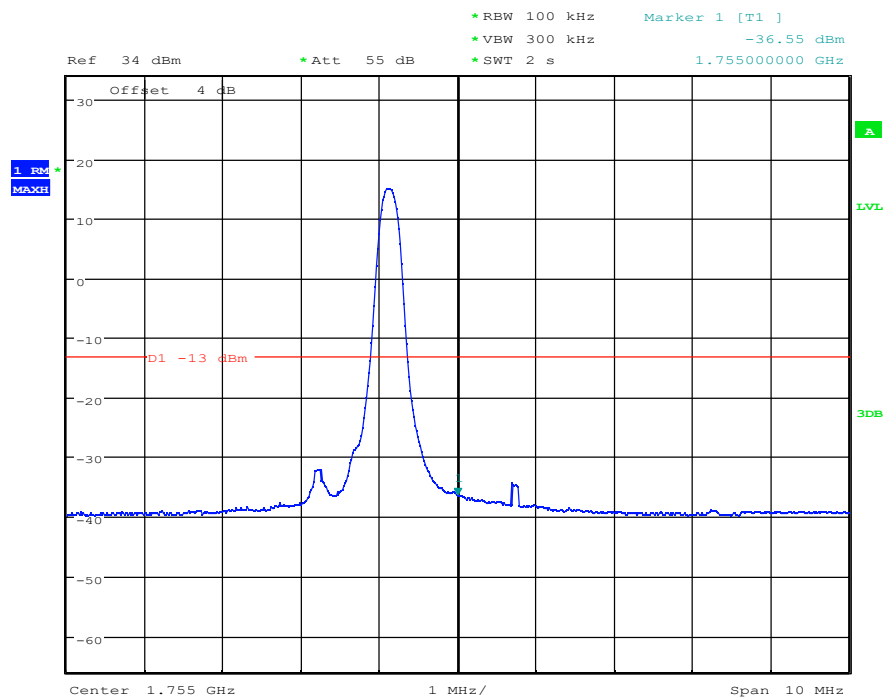
Band4-High Channel-5MHz Bandwidth-6RB-QPSK

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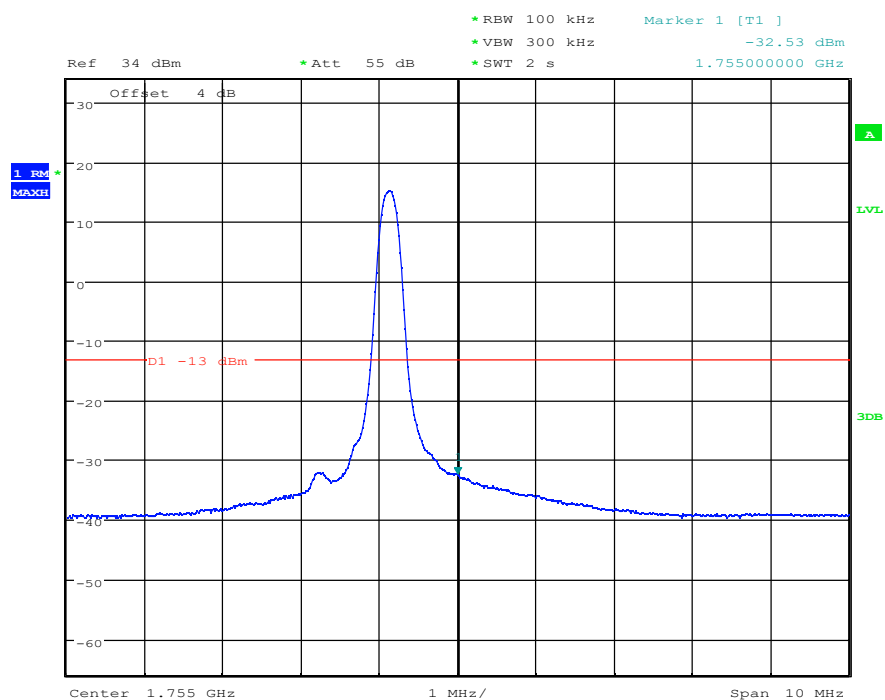


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:09:06

Band4-High Channel-10MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:09:58

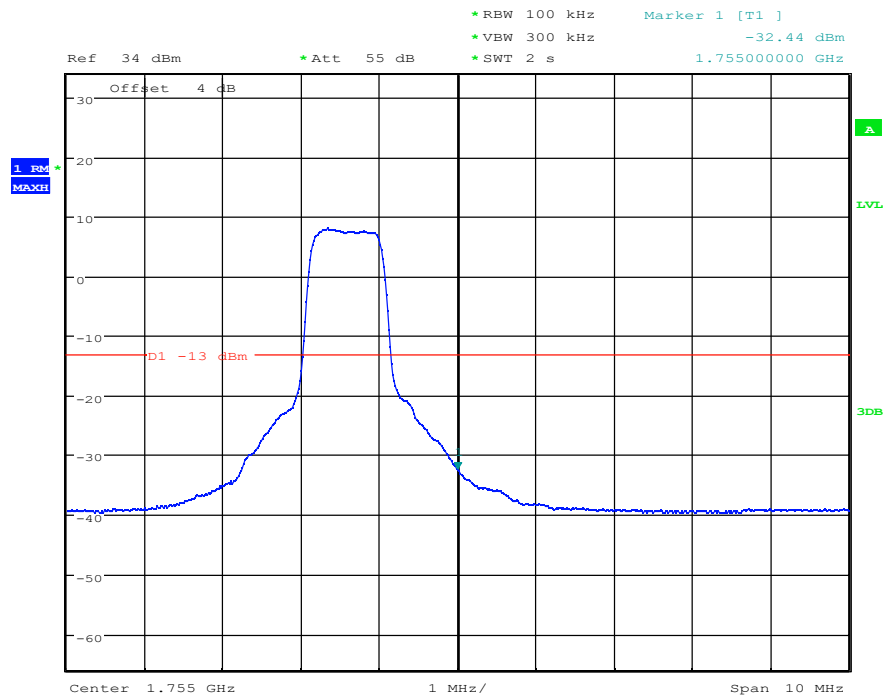
Band4-High Channel-10MHz Bandwidth-1RB-QPSK

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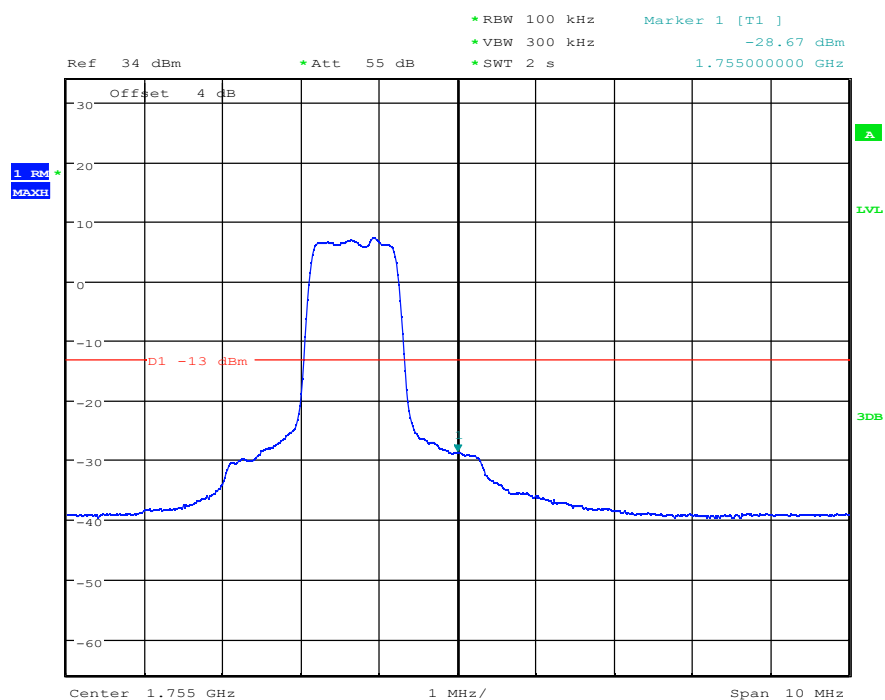


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:08:12

Band4-High Channel-10MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:11:20

Band4-High Channel-10MHz Bandwidth-6RB-QPSK

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Ref 34 dBm *Att 55 dB *RBW 100 kHz Marker 1 [T1] -37.13 dBm
 *VBW 300 kHz *SWT 2 s 1.755000000 GHz

Offset 4 dB

D1 -13 dBm

Center 1.755 GHz 1 MHz/ Span 10 MHz

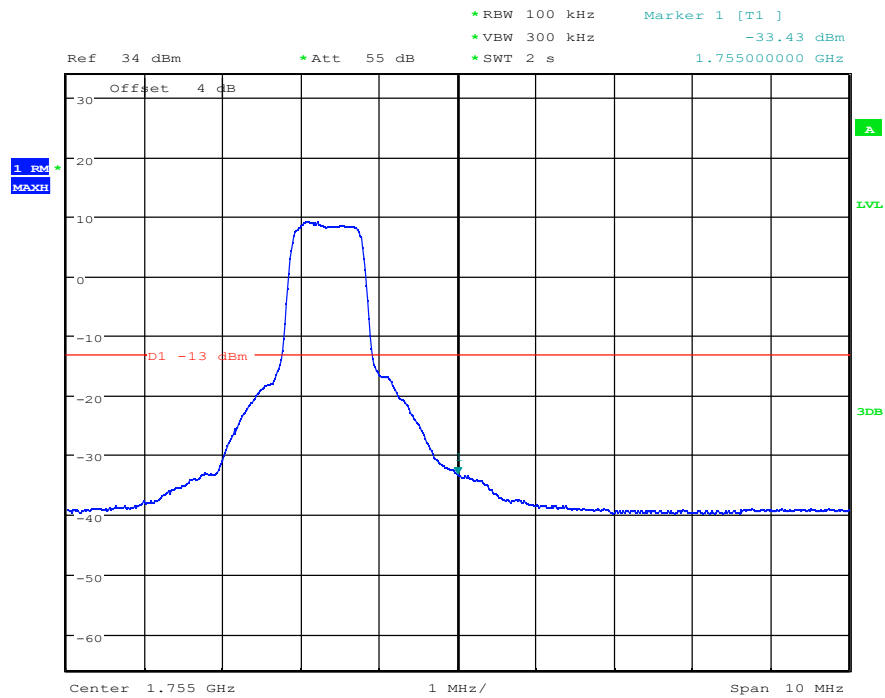
Band4-High Channel-15MHz Bandwidth-1RB-16QAM



Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

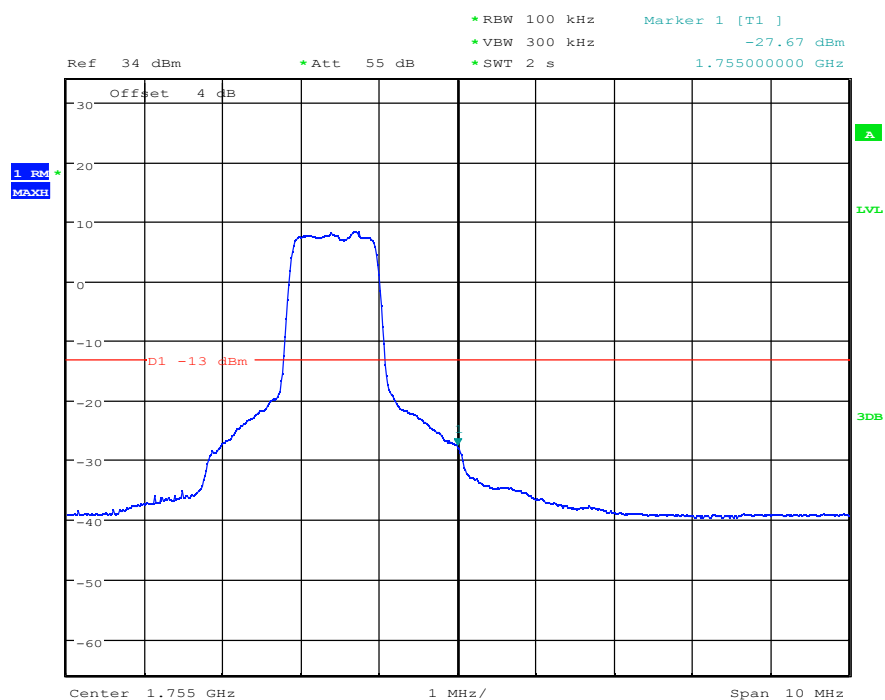


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:22:09

Band4-High Channel-15MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:26:08

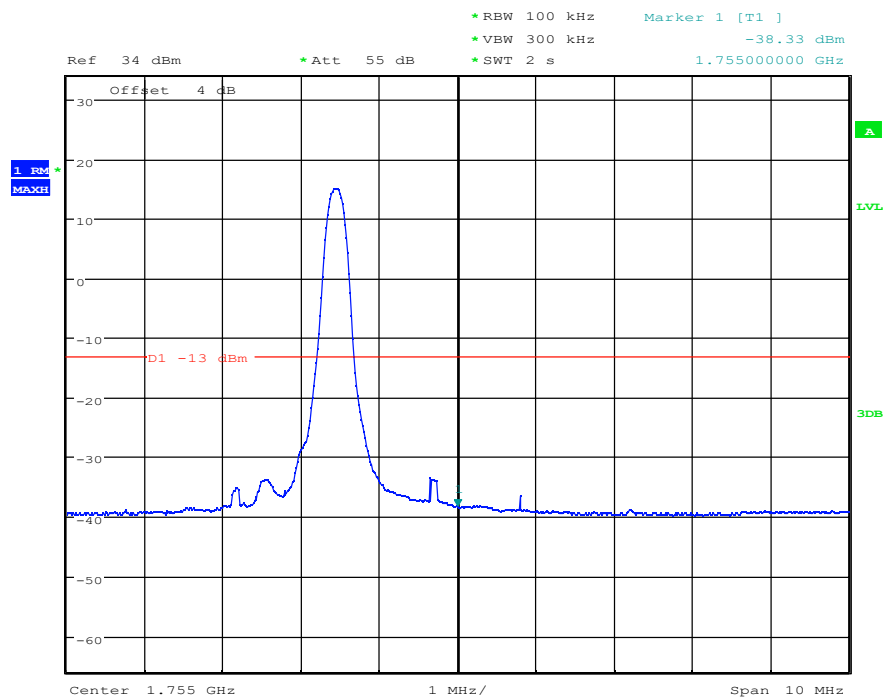
Band4-High Channel-15MHz Bandwidth-6RB-QPSK

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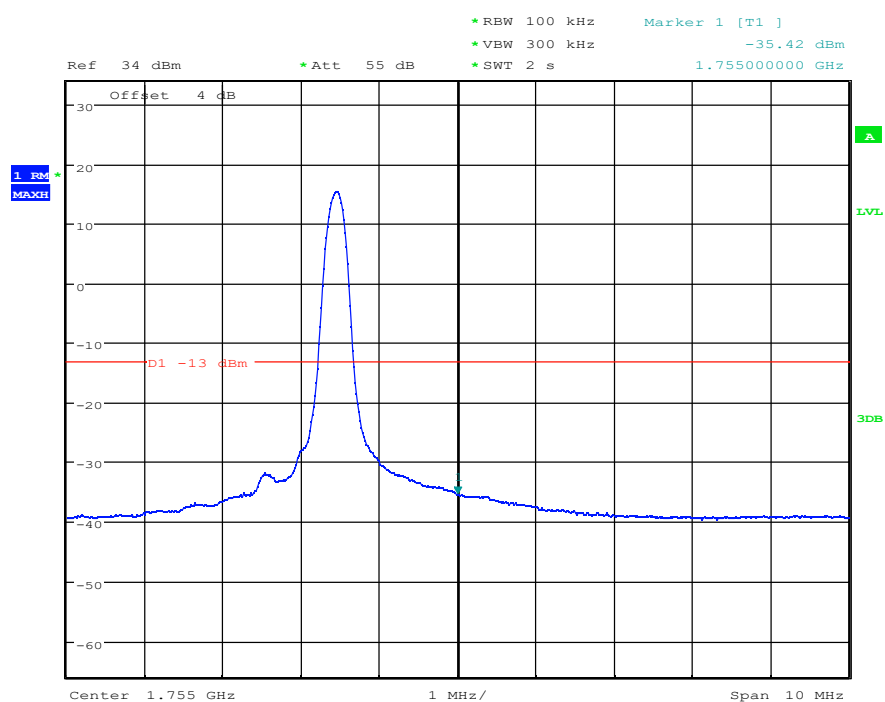


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:36:19

Band4-High Channel-20MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:37:32

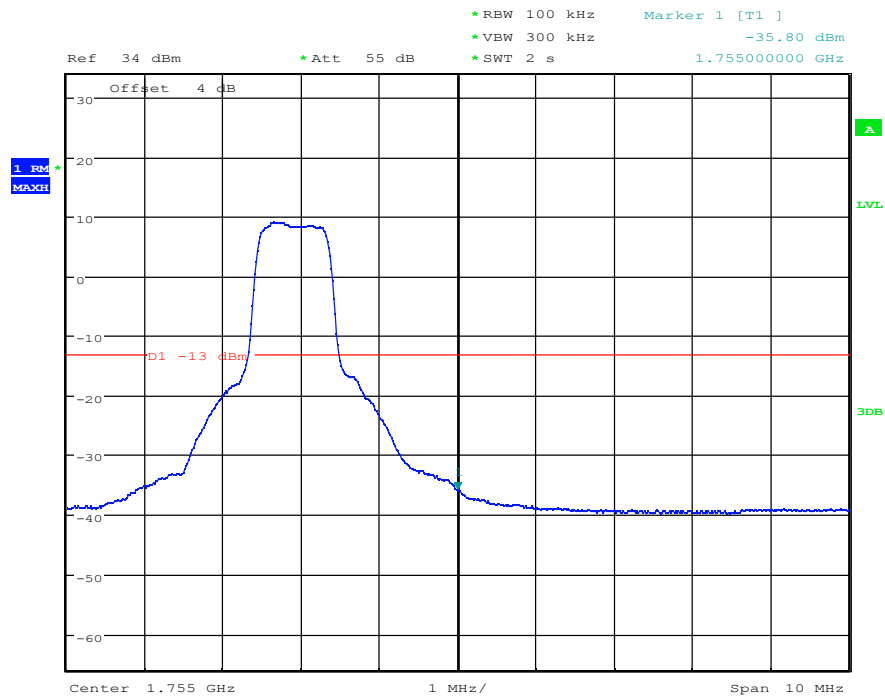
Band4-High Channel-20MHz Bandwidth-1RB-QPSK

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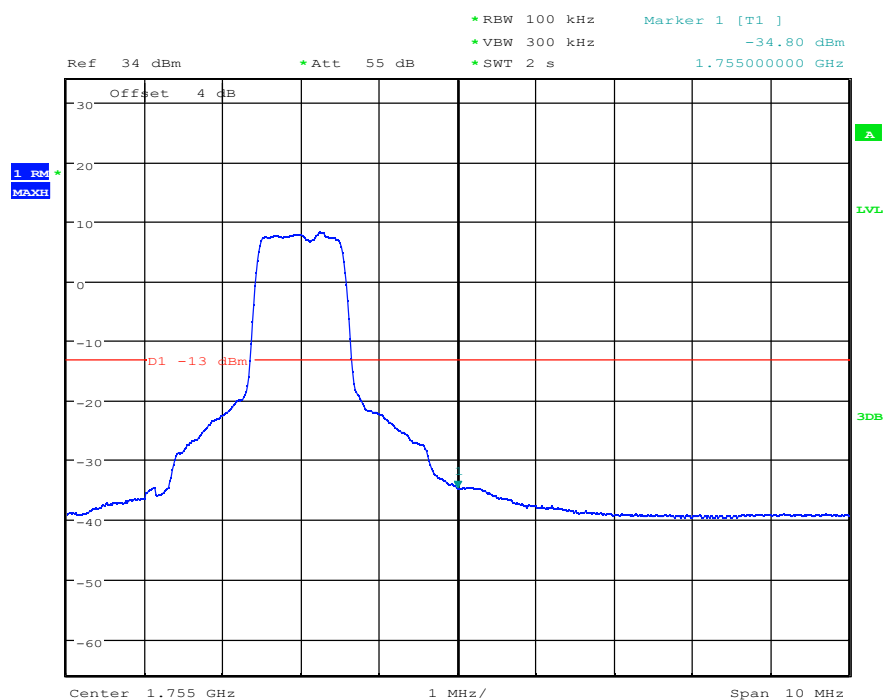


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:35:12

Band4-High Channel-20MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:39:05

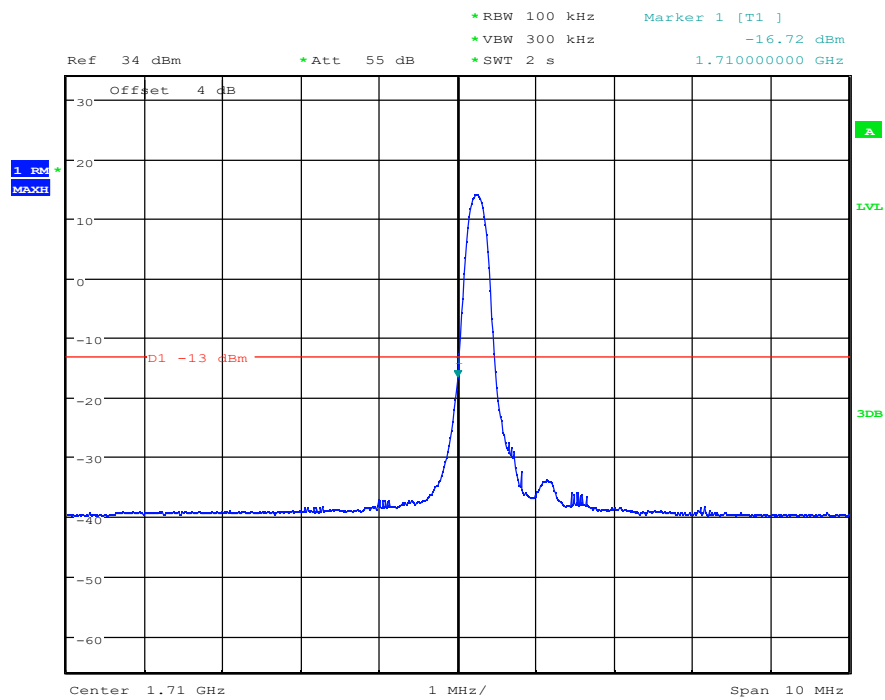
Band4-High Channel-20MHz Bandwidth-6RB-QPSK

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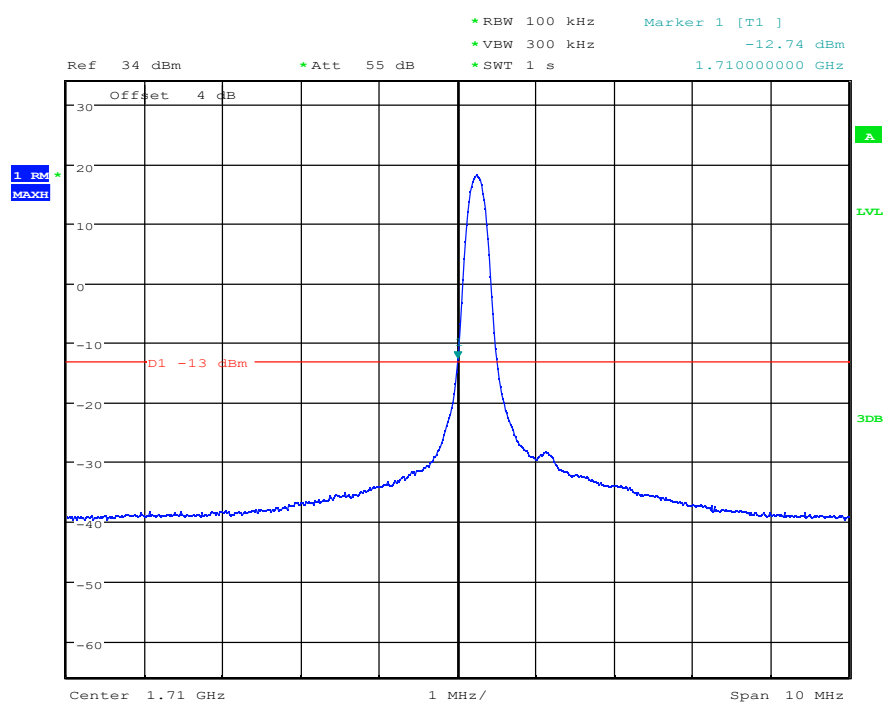


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:35:18

Band4-Low Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:34:00

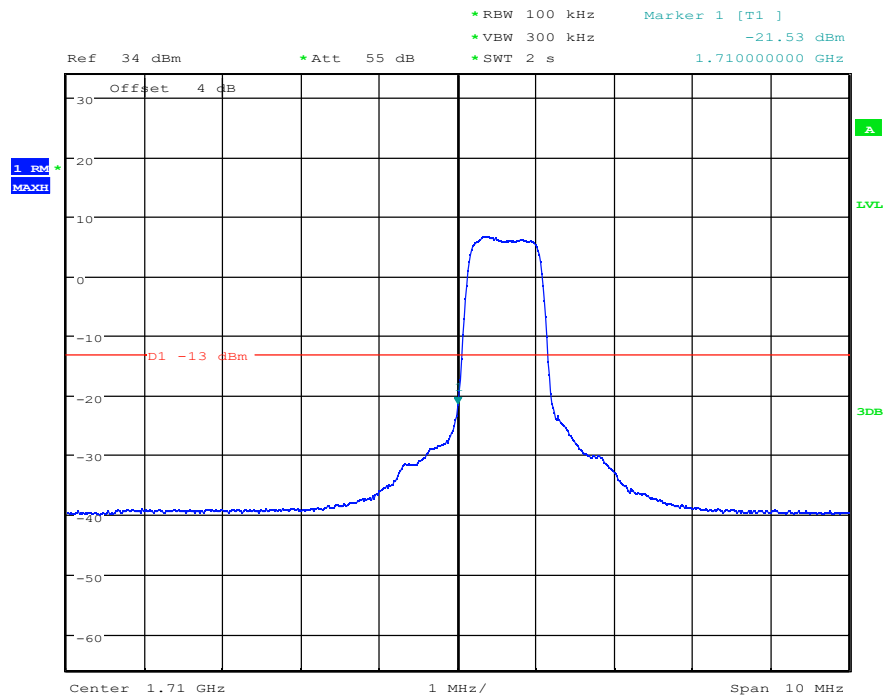
Band4-Low Channel-1.4MHz Bandwidth-1RB-QPSK

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

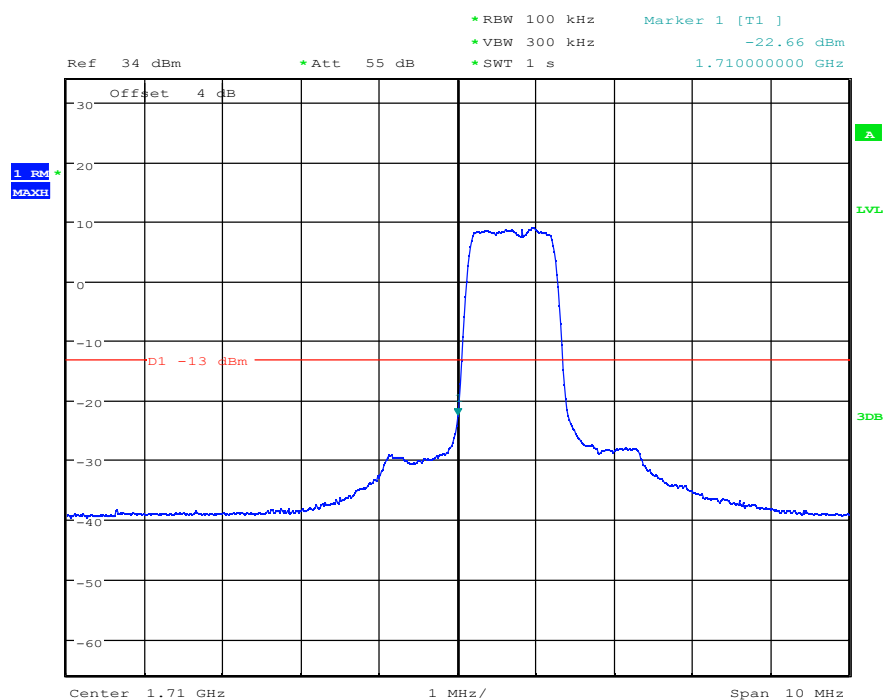


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:35:58

Band4-Low Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 08:33:01

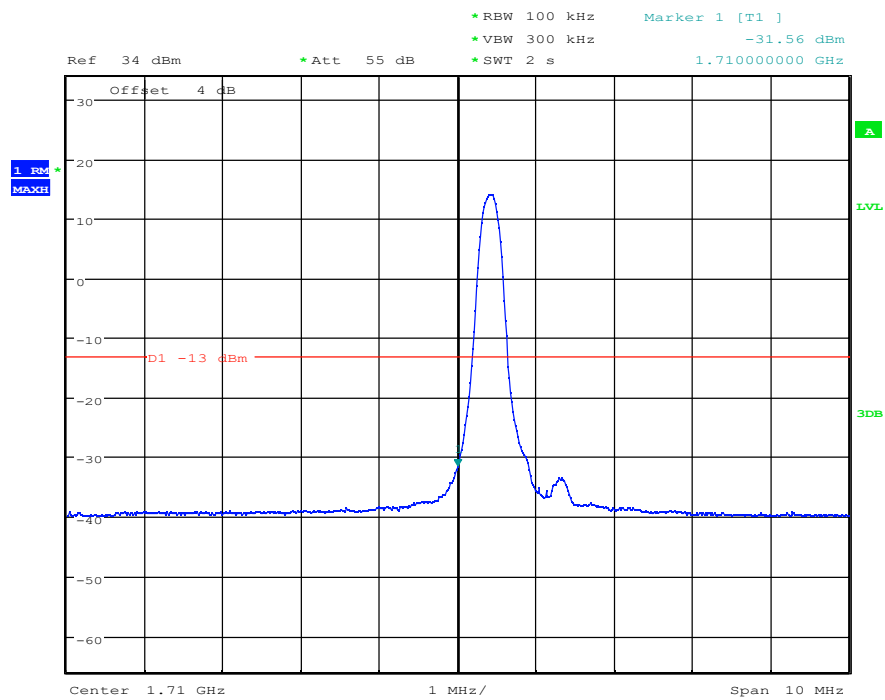
Band4-Low Channel-1.4MHz Bandwidth-6RB-QPSK

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

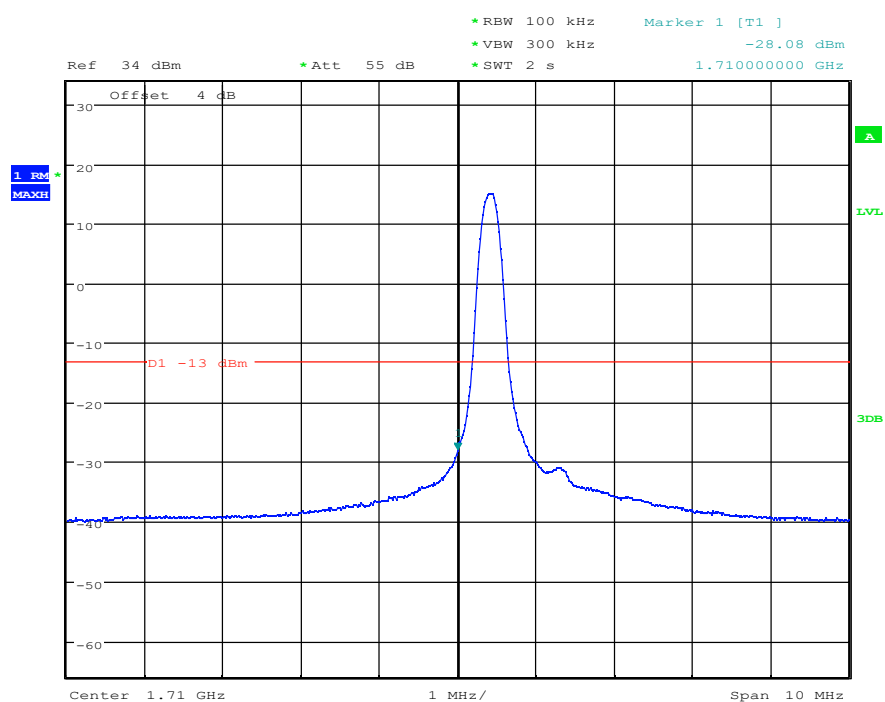


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:26:35

Band4-Low Channel-3MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:25:44

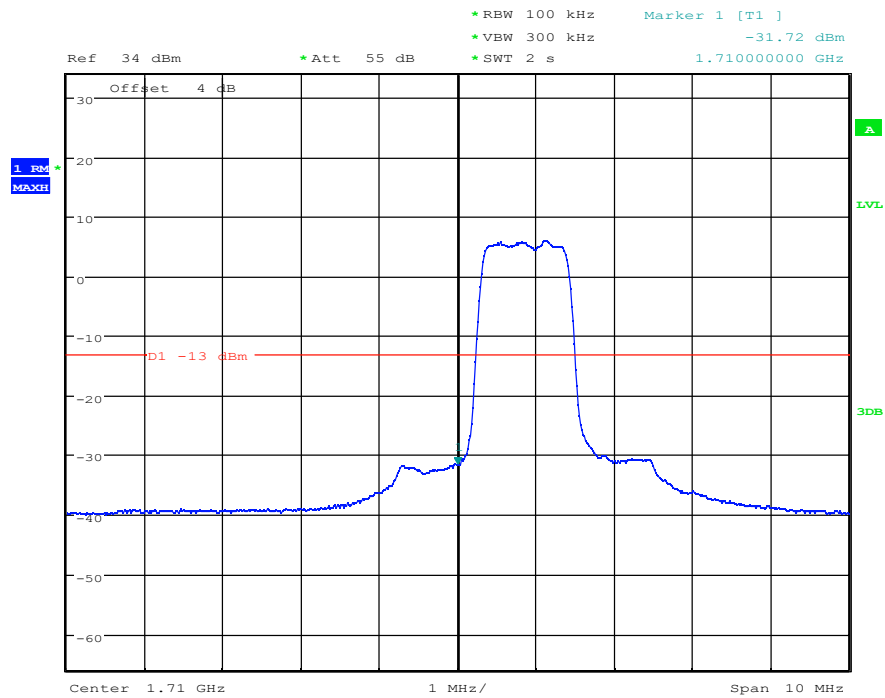
Band4-Low Channel-3MHz Bandwidth-1RB-QPSK

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

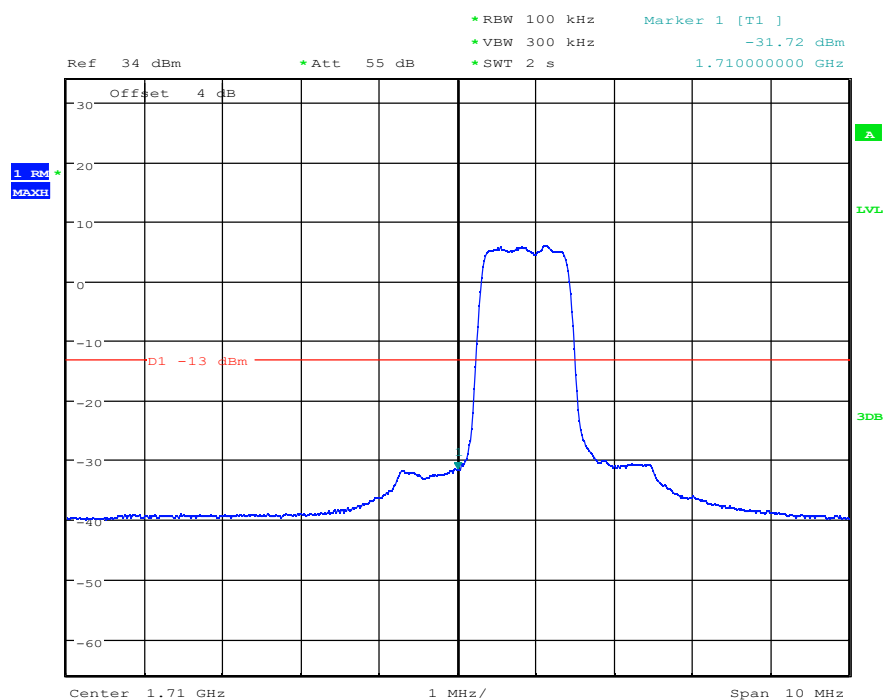


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:25:09

Band4-Low Channel-3MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:25:09

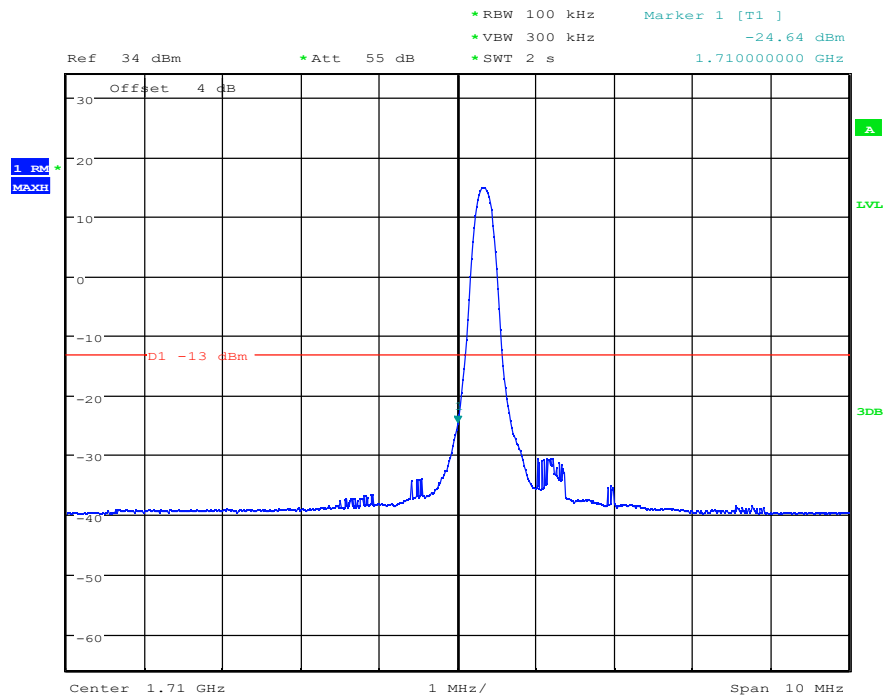
Band4-Low Channel-3MHz Bandwidth-6RB-QPSK

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

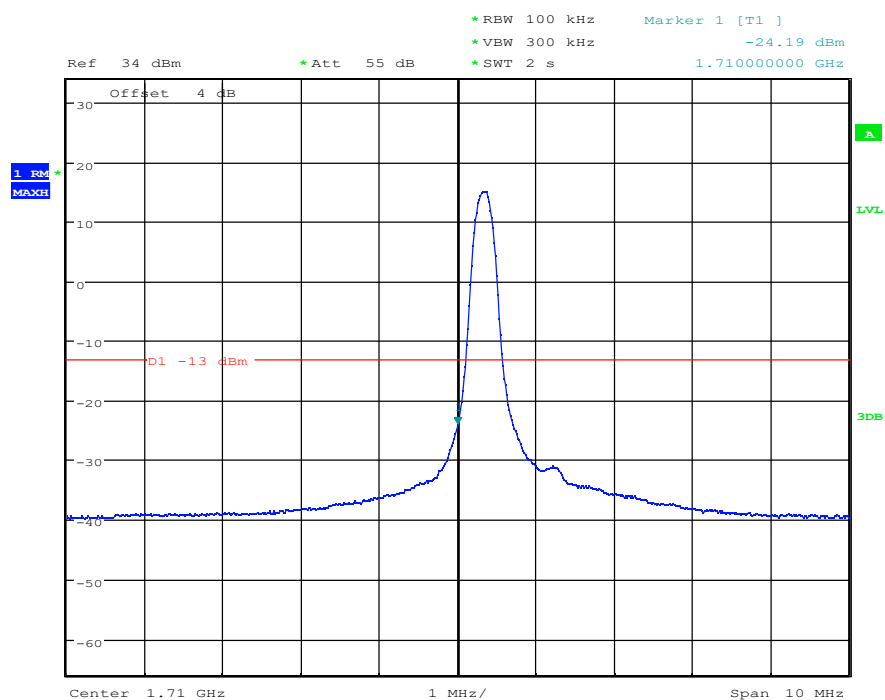


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 09:51:03

Band4-Low Channel-5MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 09:50:05

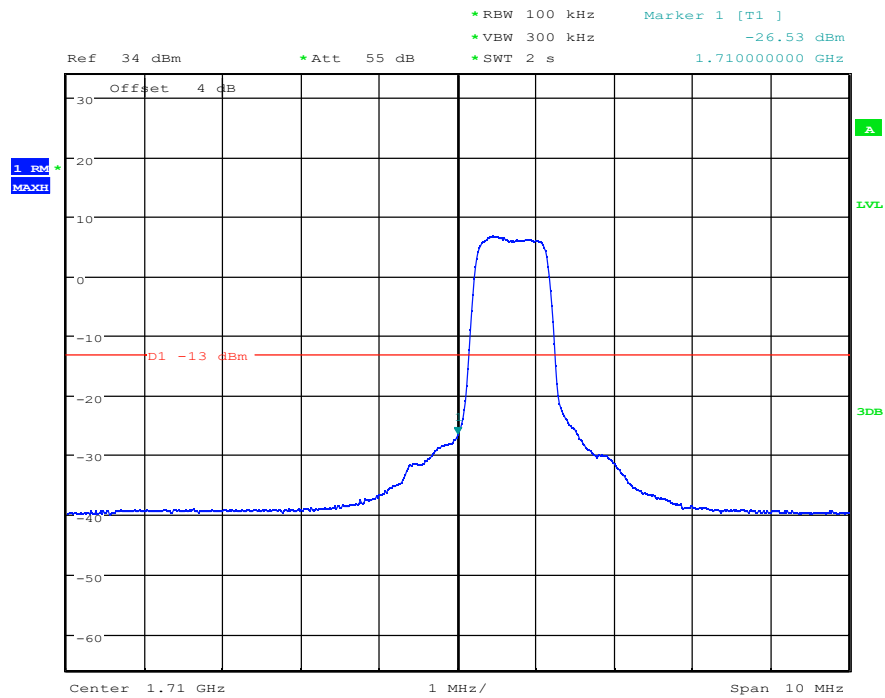
Band4-Low Channel-5MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

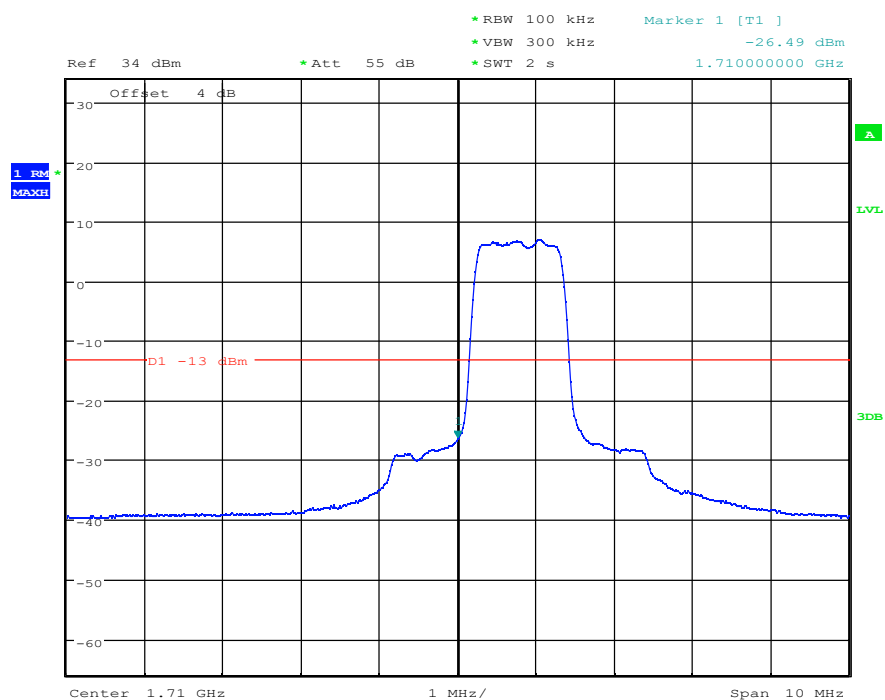


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 09:52:09

Band4-Low Channel-5MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 09:48:43

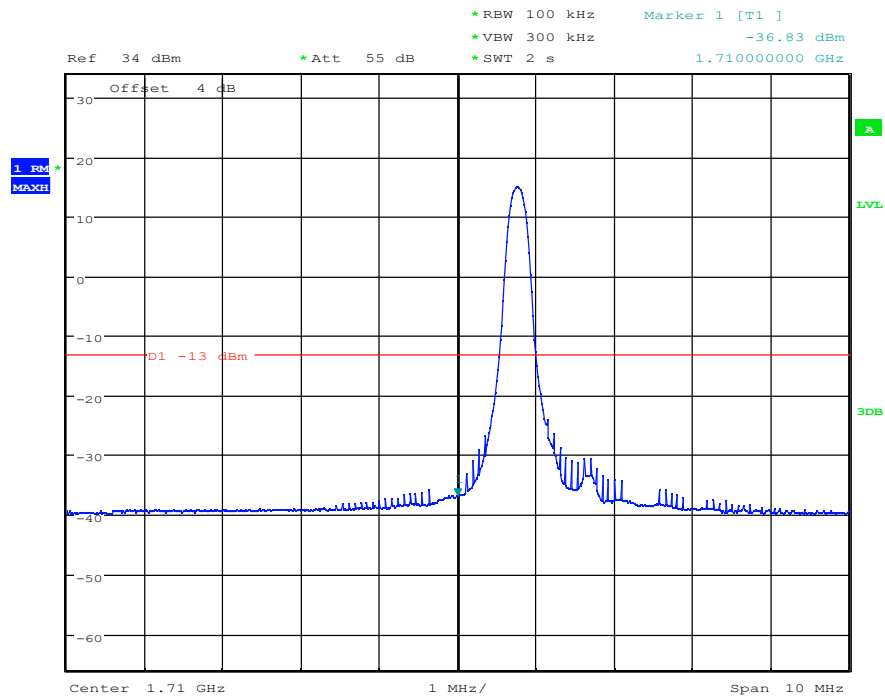
Band4-Low Channel-5MHz Bandwidth-6RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

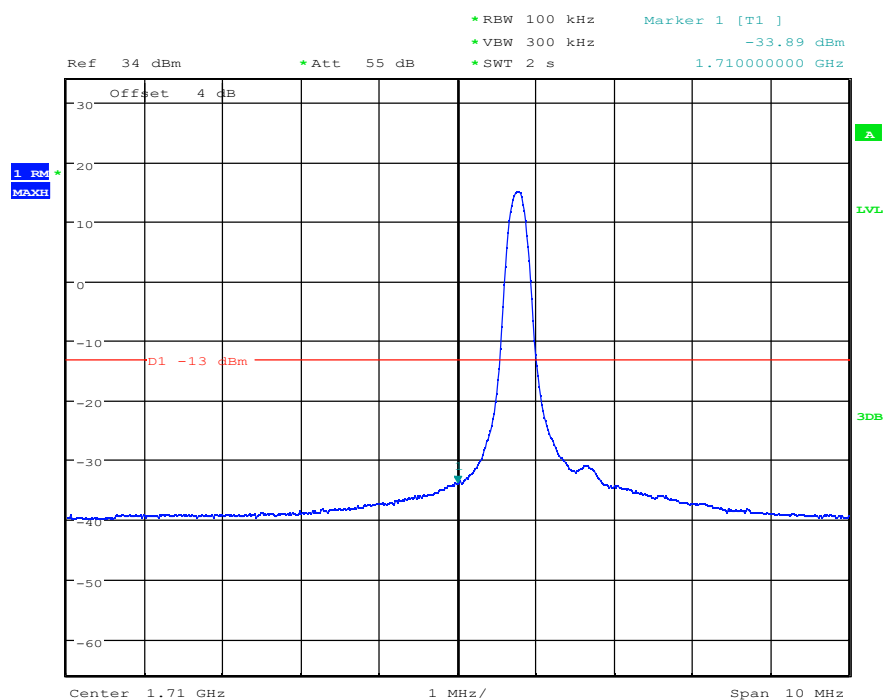


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:03:16

Band4-Low Channel-10MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:02:20

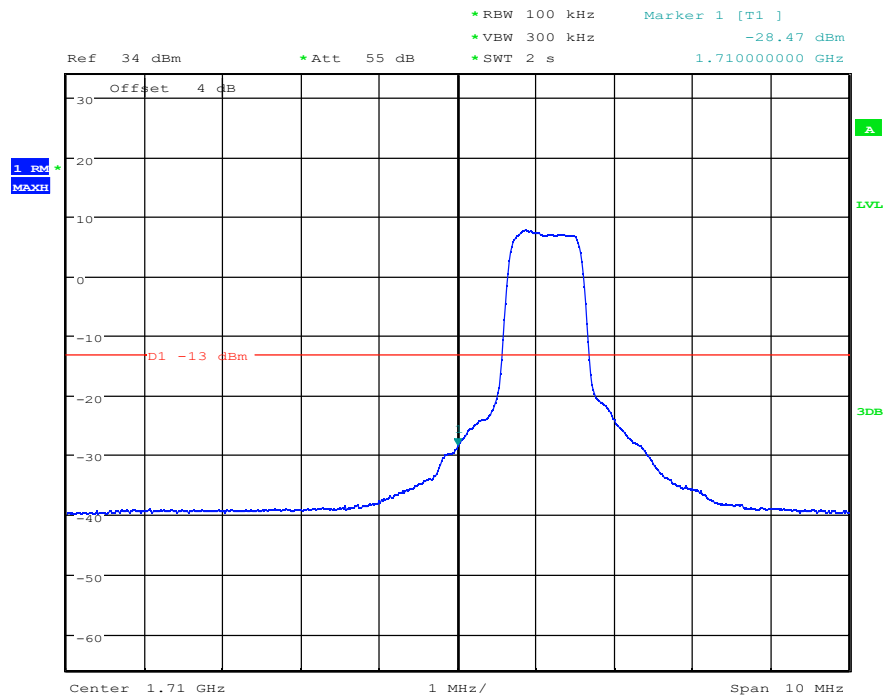
Band4-Low Channel-10MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

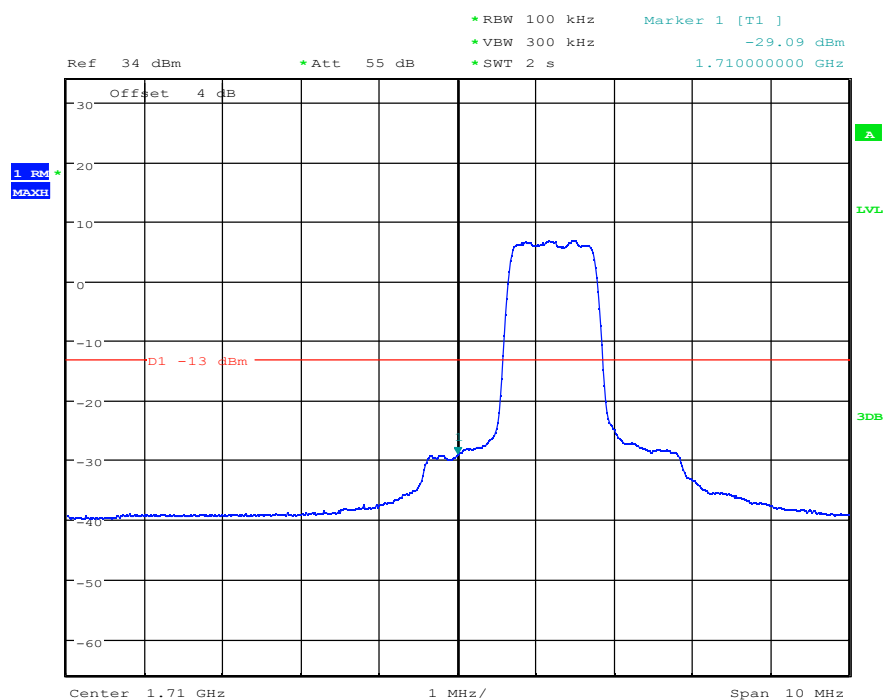


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:04:34

Band4-Low Channel-10MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:01:44

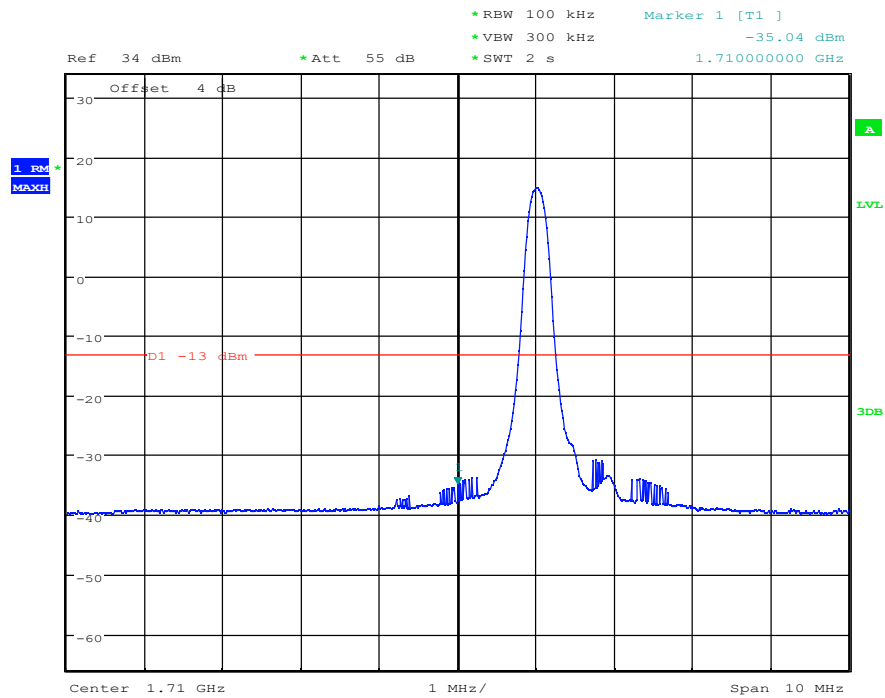
Band4-Low Channel-10MHz Bandwidth-6RB-QPSK

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

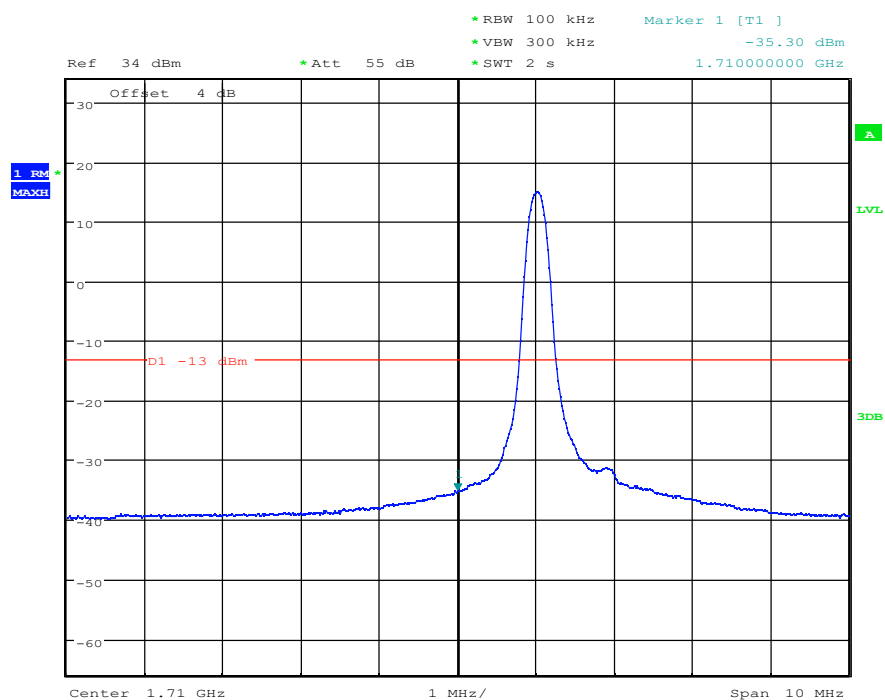


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:16:36

Band4-Low Channel-15MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:15:34

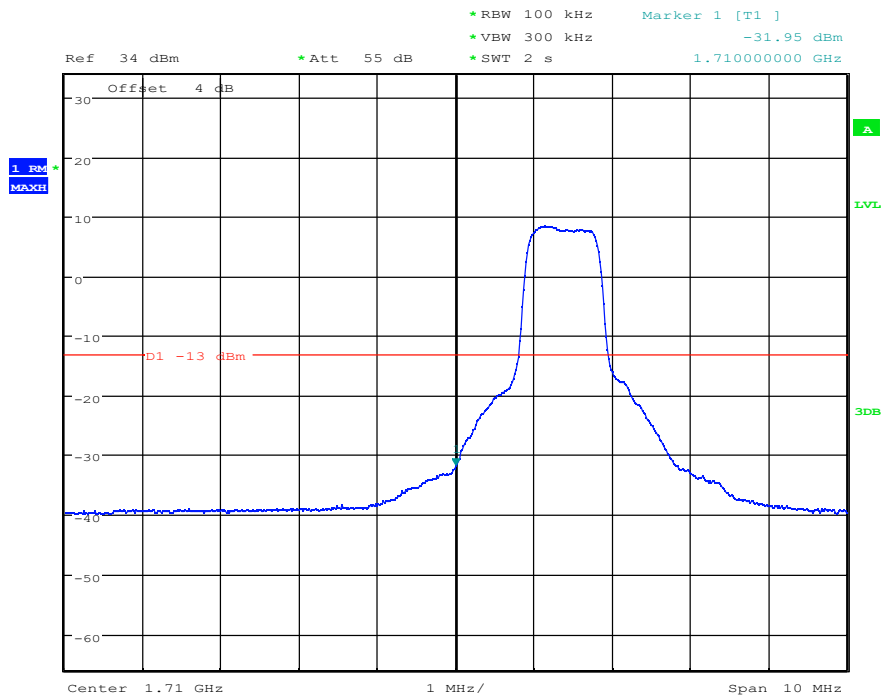
Band4-Low Channel-15MHz Bandwidth-1RB-QPSK

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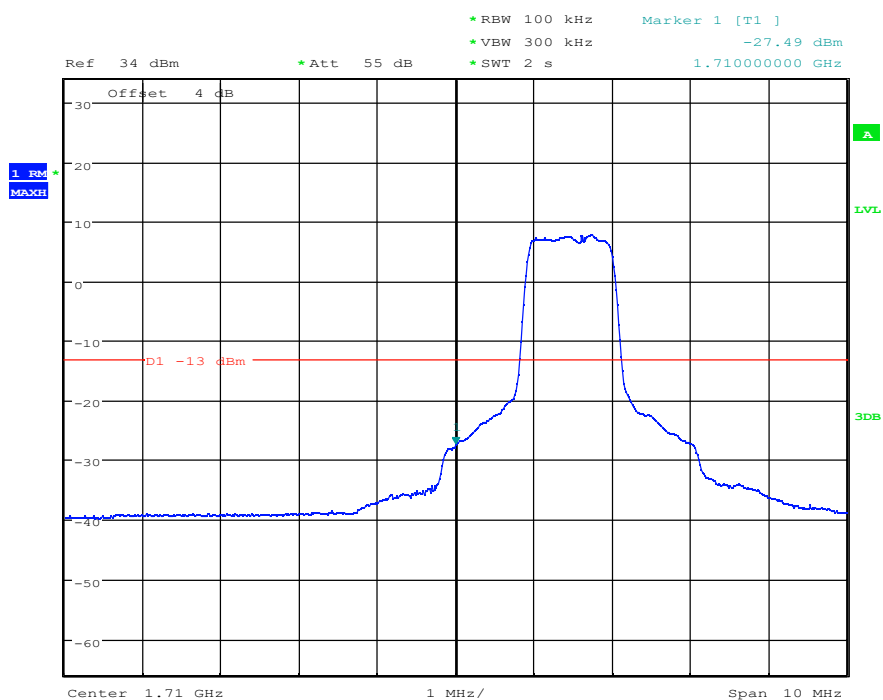


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:17:22

Band4-Low Channel-15MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:14:27

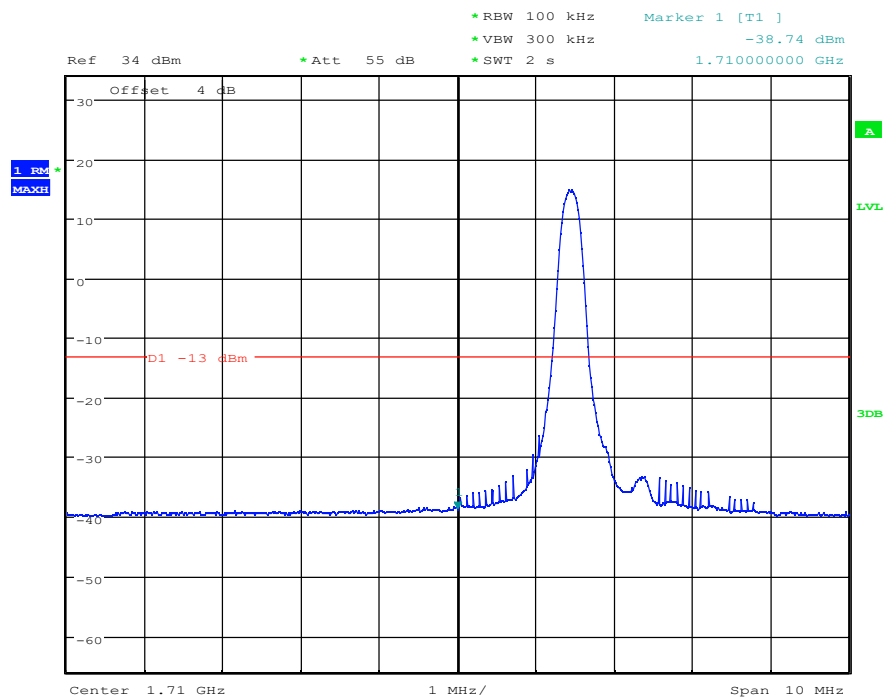
Band4-Low Channel-15MHz Bandwidth-6RB-QPSK

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

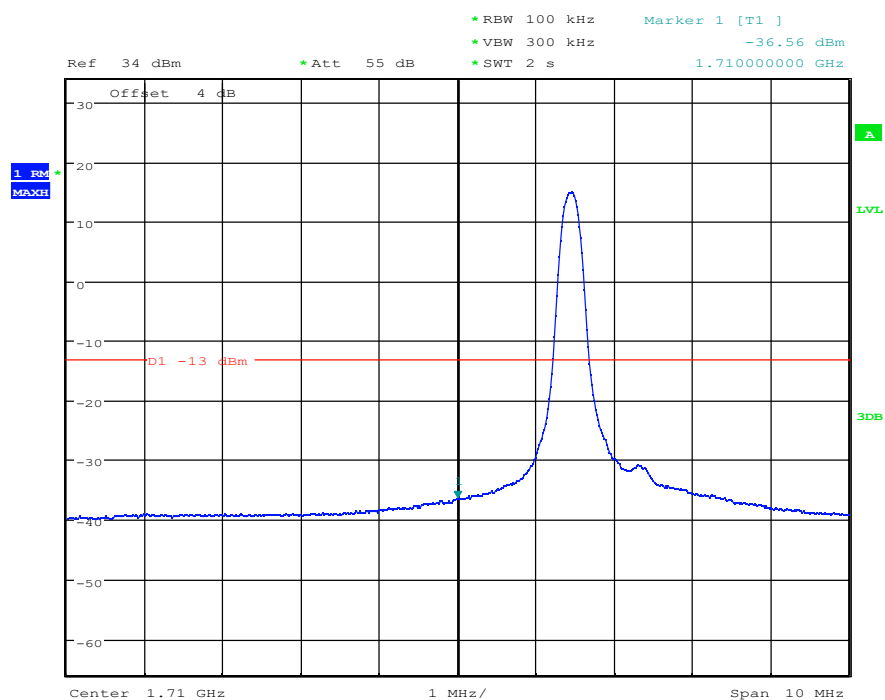


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:31:39

Band4-Low Channel-20MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 10:30:58

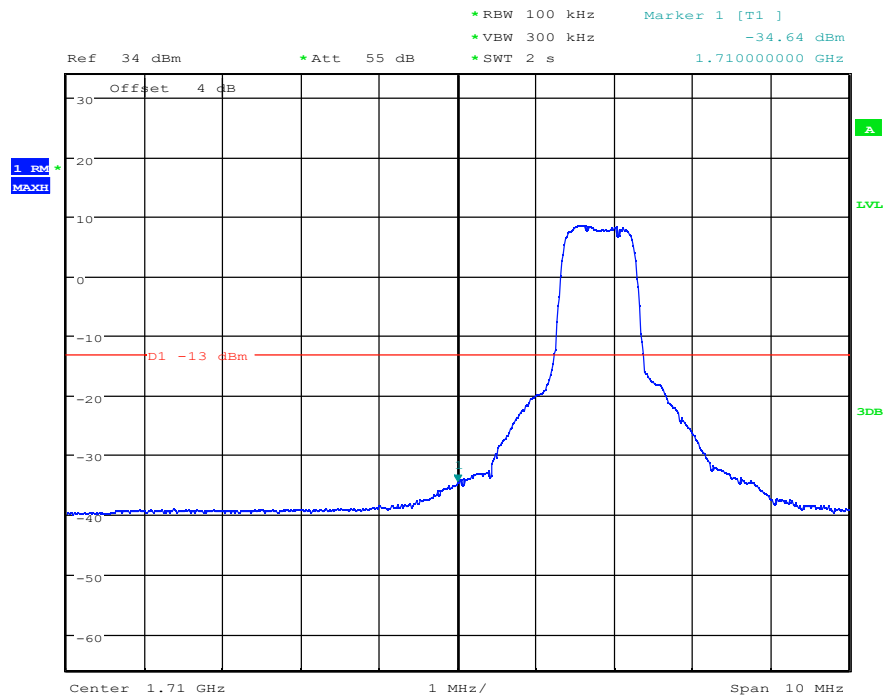
Band4-Low Channel-20MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

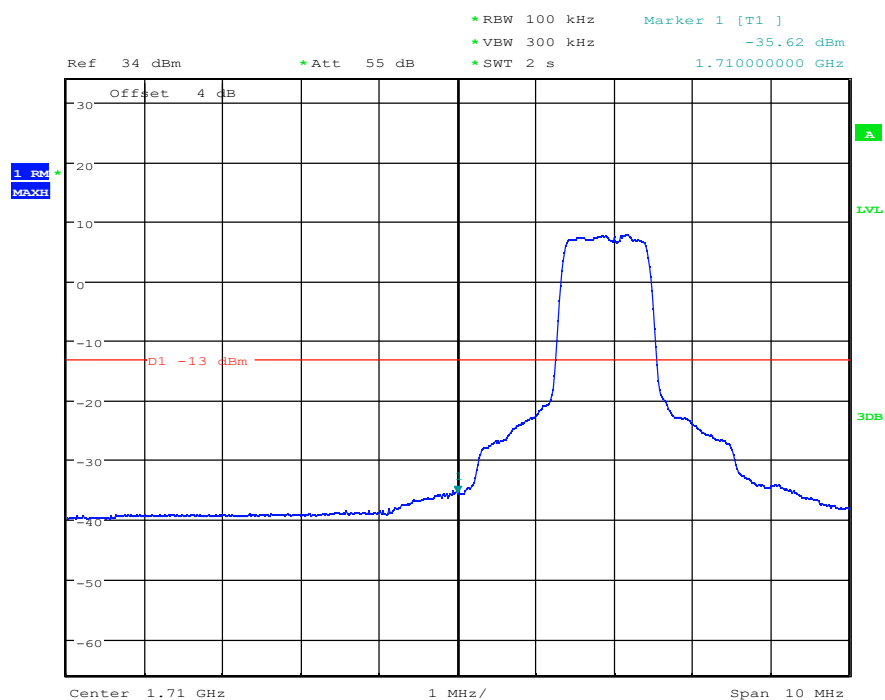


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 10:32:17

Band4-Low Channel-20MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 10:29:51

Band4-Low Channel-20MHz Bandwidth-6RB-QPSK

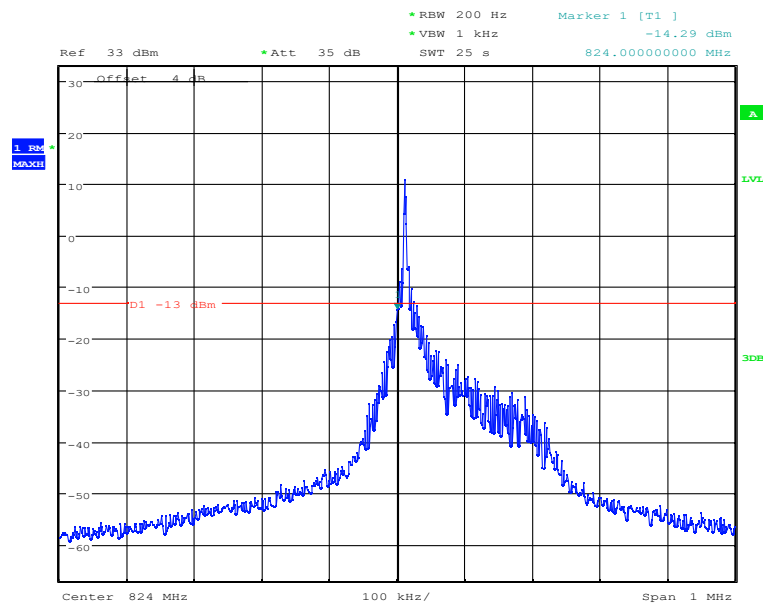
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



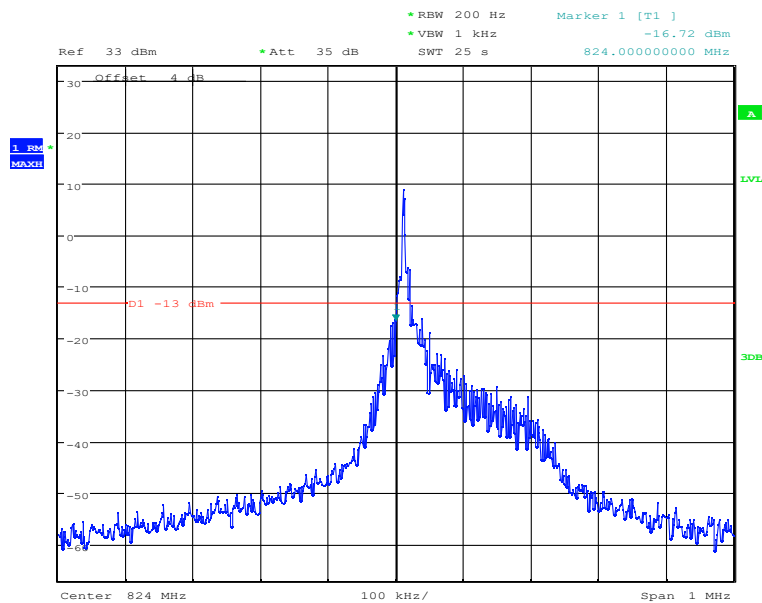
Report No.: I21W00004-WWAN_Rev2

5.5.5 NB-IoT Band5 Edge Results



Date: 29.DEC.2020 10:54:21

Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



Date: 29.DEC.2020 10:53:16

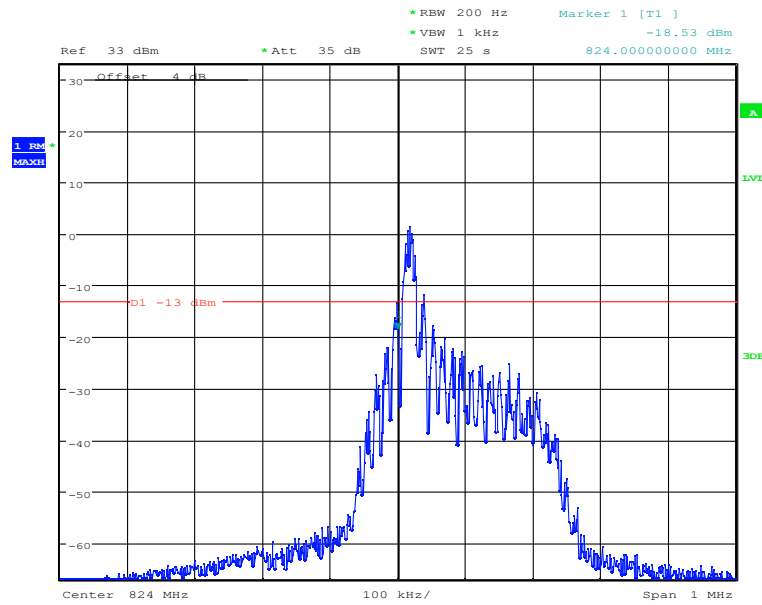
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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Tel: 0086-23-88069965 FAX:0086-23-88608777

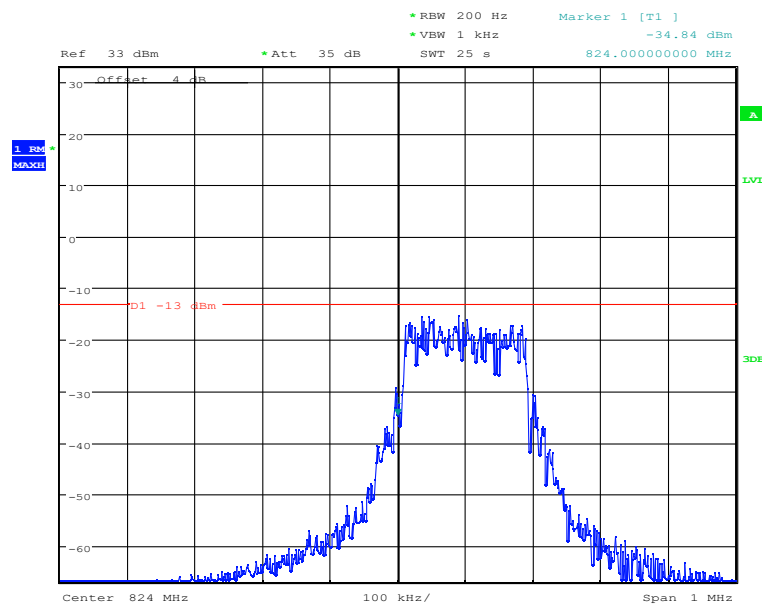


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 10:57:36

Low Channel, Subcarrier (15kHz), QPSK, 1@0



Date: 29.DEC.2020 10:58:44

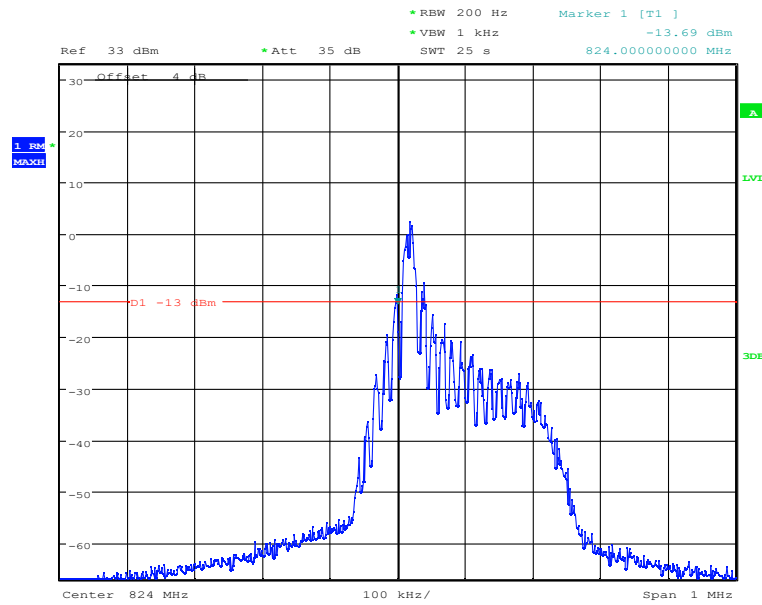
Low Channel, Subcarrier (15kHz), QPSK, 12@0

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Tel: 0086-23-88069965 FAX:0086-23-88608777

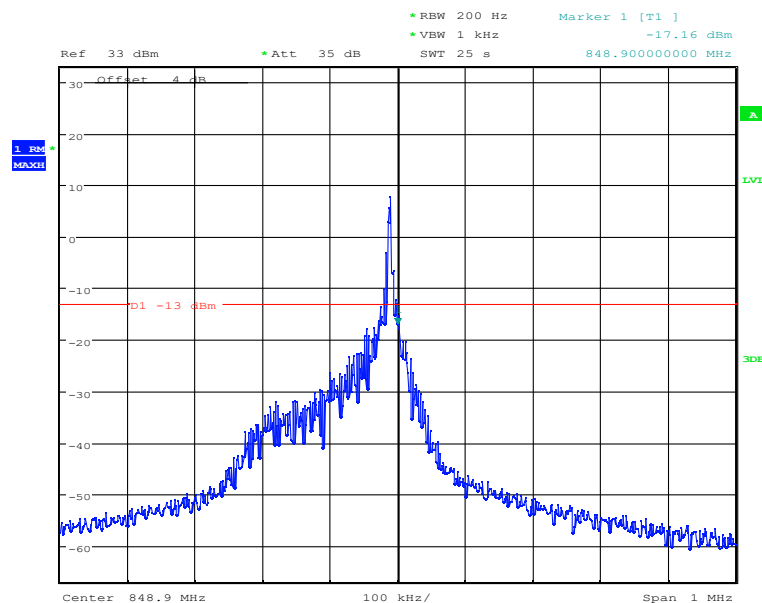


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 11:00:21

Low Channel, Subcarrier (15kHz), BPSK, 1@0



Date: 29.DEC.2020 11:30:42

High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Ref 33 dBm * Att 35 dB * RBW 200 Hz Marker 1 [T1] -15.36 dBm
 VBW 1 kHz SWT 25 s 848.900000000 MHz

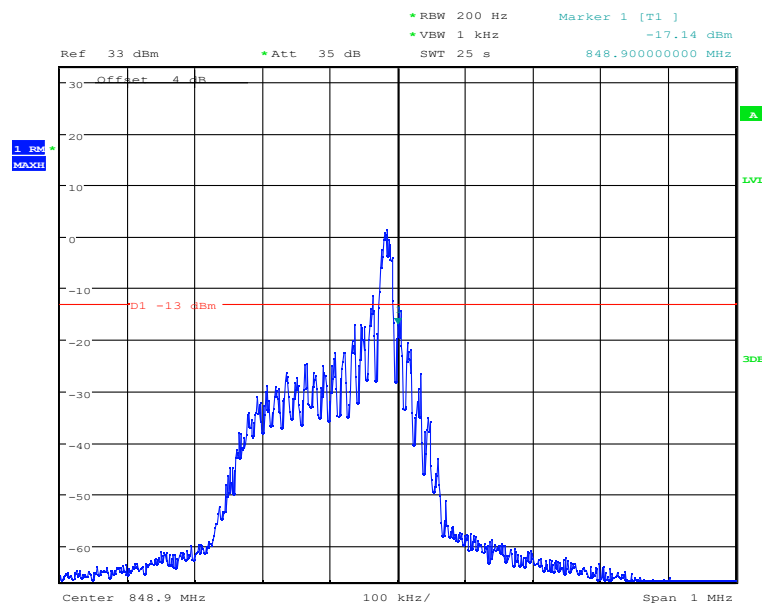
Offet 4 dB

1.500
 MAXH

D1 -13 dBm

Center 848.9 MHz 100 kHz/ Span 1 MHz

High Channel, Subcarrier (3.75kHz), BPSK, 1@47

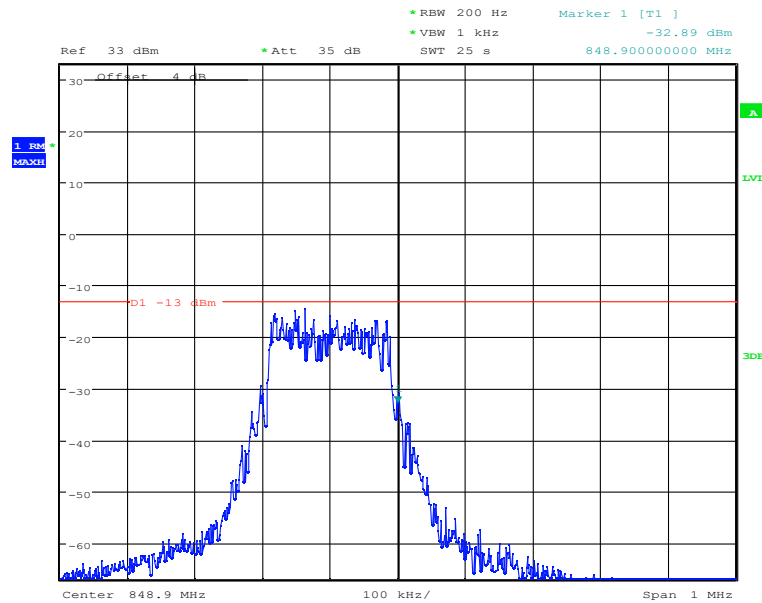


High Channel, Subcarrier (15kHz), QPSK, 1@11

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

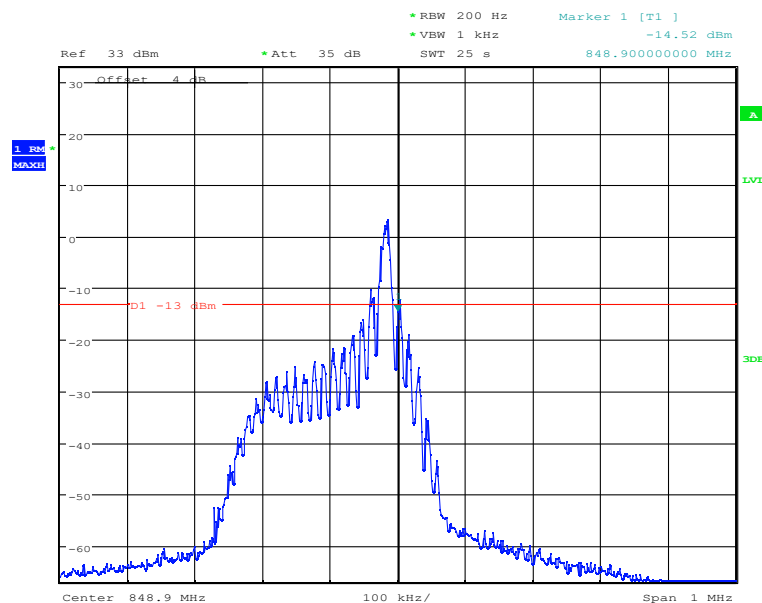


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 11:35:35

High Channel, Subcarrier (15kHz), QPSK, 12@0



Date: 29.DEC.2020 11:37:37

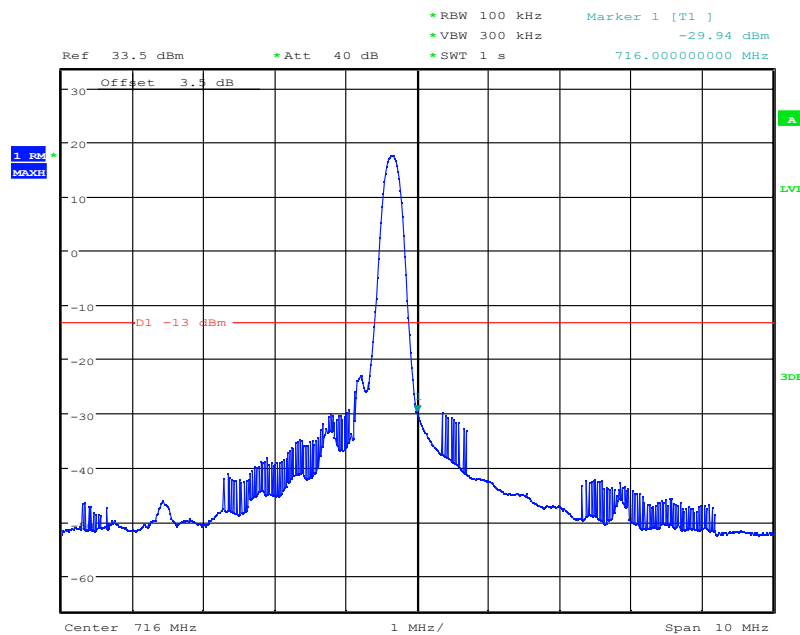
High Channel, Subcarrier (15kHz), BPSK, 1@11

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Tel: 0086-23-88069965 FAX:0086-23-88608777

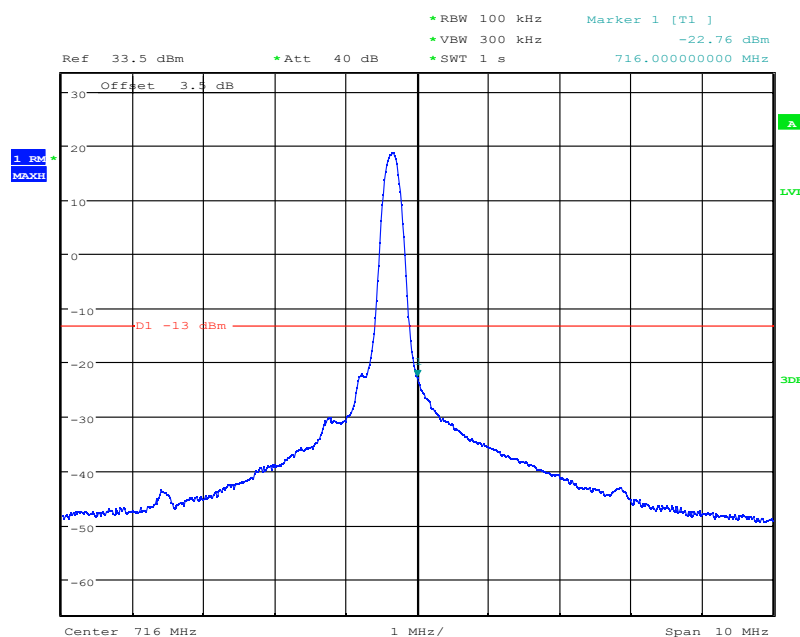
Report No.: I21W00004-WWAN_Rev2

5.5.6 CAT-M Band12 Edge Results



Date: 28.DEC.2020 00:38:16

High Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 00:39:08

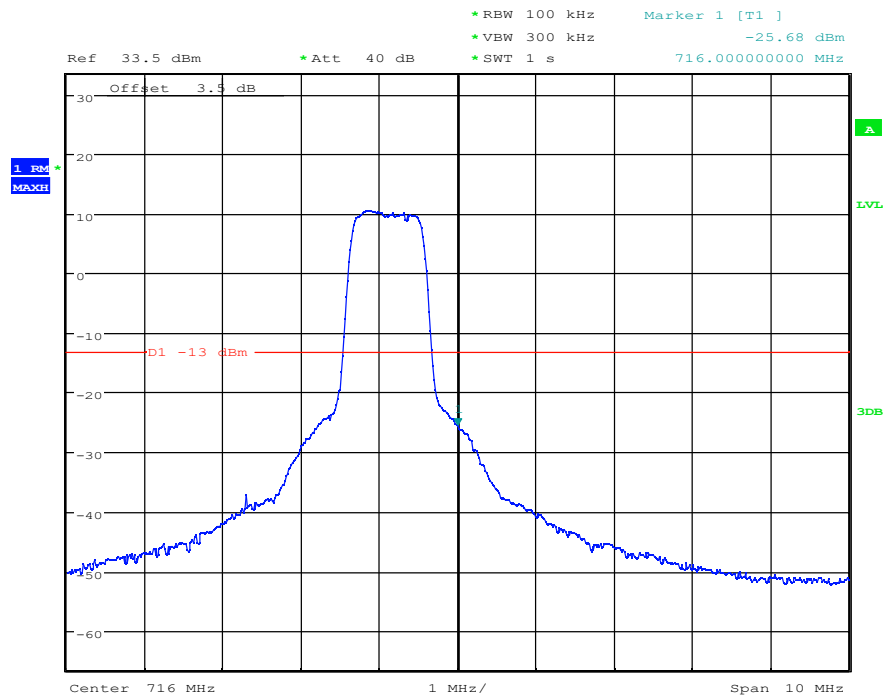
High Channel-1.4MHz Bandwidth-1RB-QPSK

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 Tel: 0086-23-88069965 FAX:0086-23-88608777

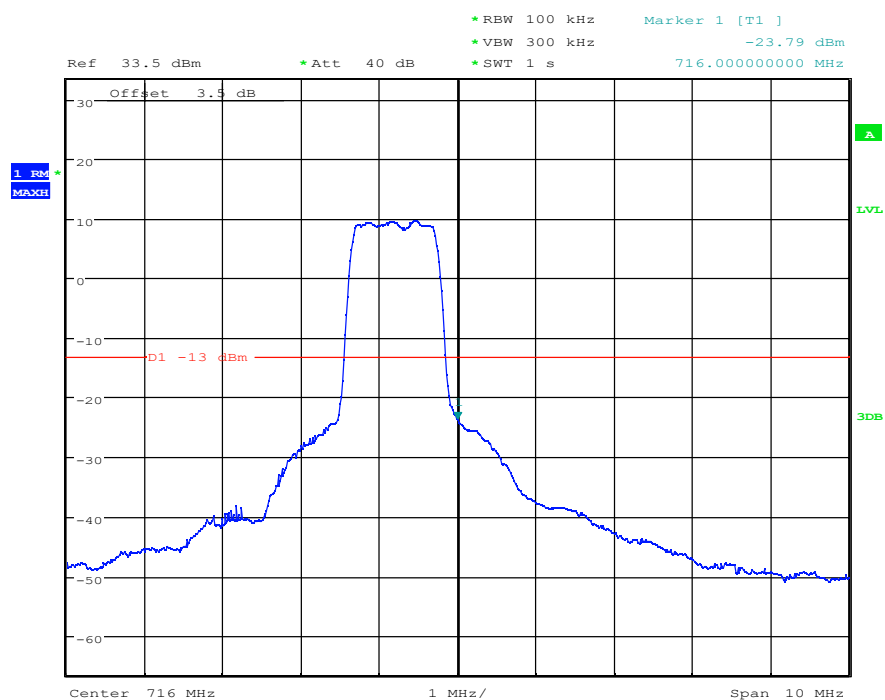


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:36:47

High Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 00:40:13

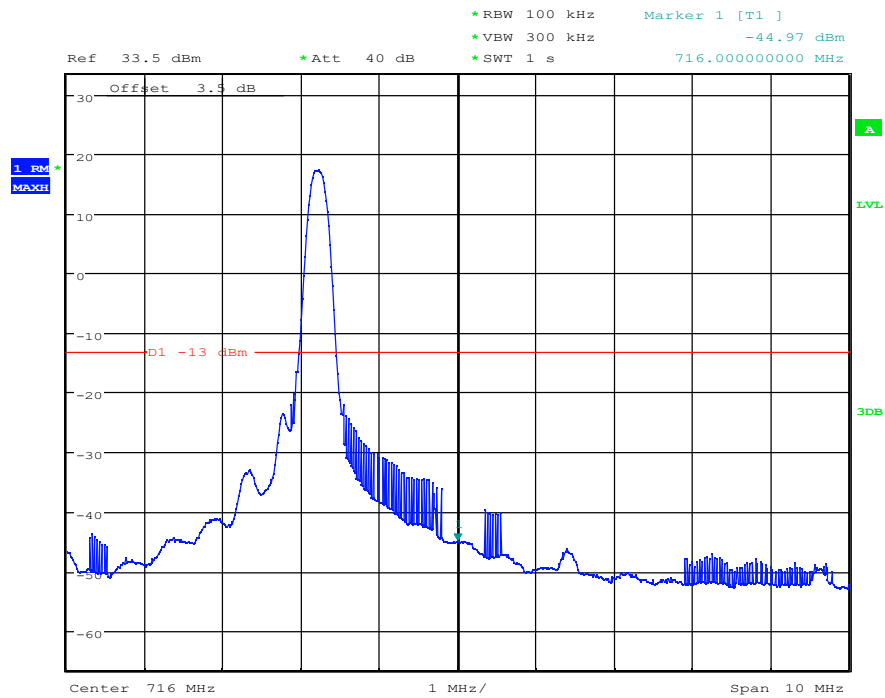
High Channel-1.4MHz Bandwidth-6RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

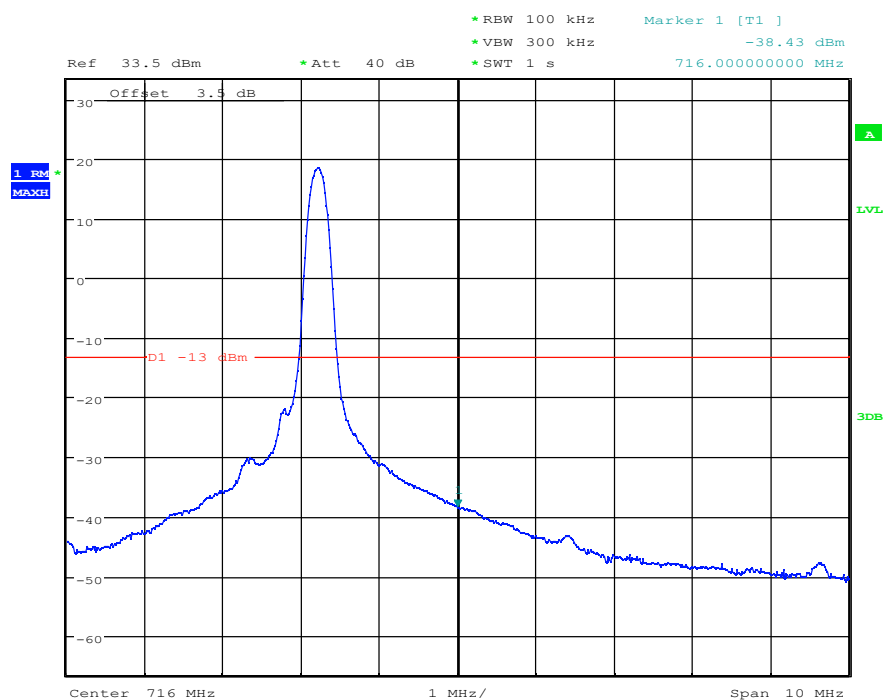


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:51:34

High Channel-3MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 00:52:32

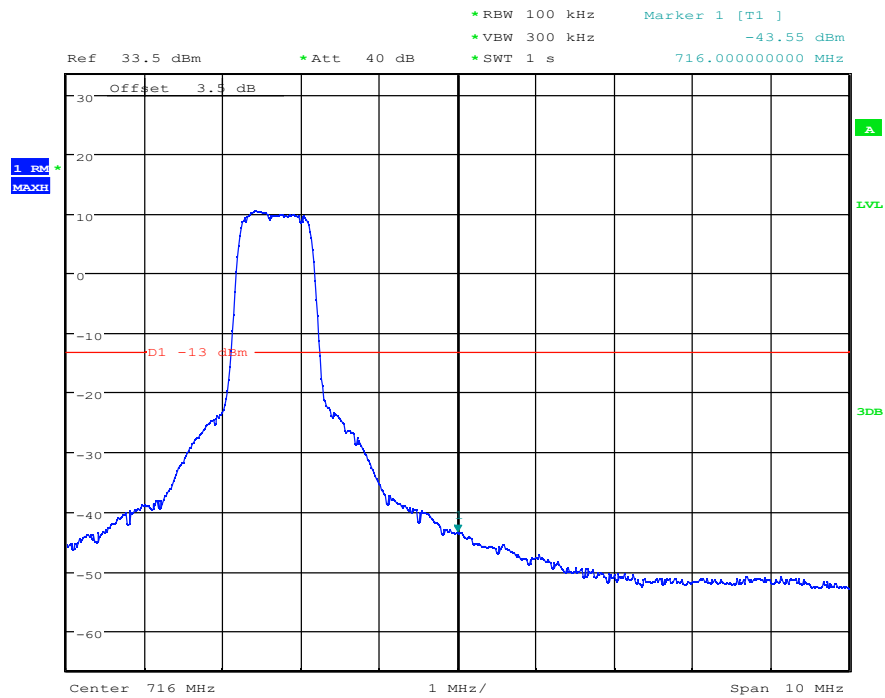
High Channel-3MHz Bandwidth-1RB-QPSK

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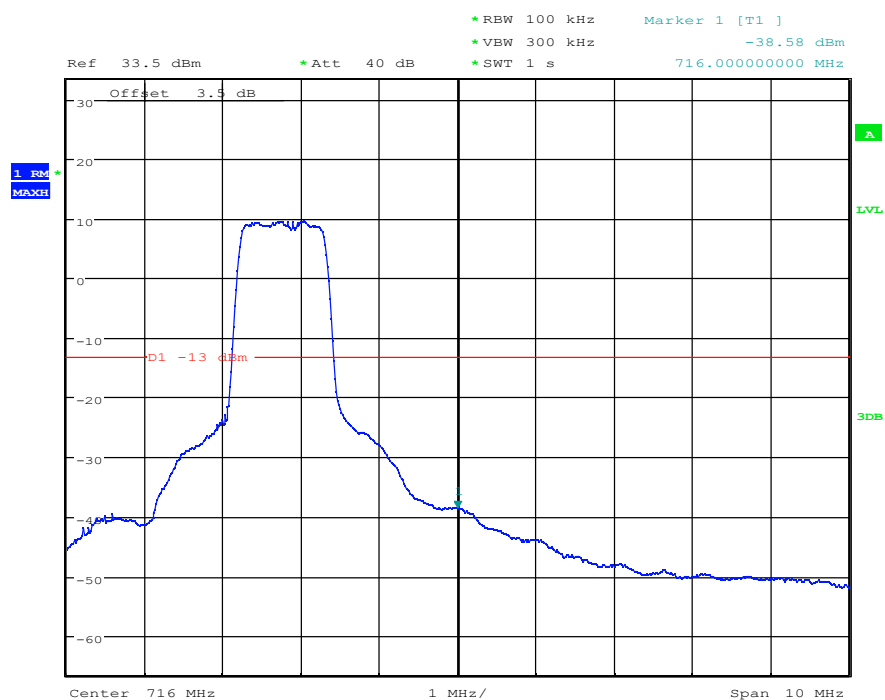


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:50:11

High Channel-3MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 00:54:27

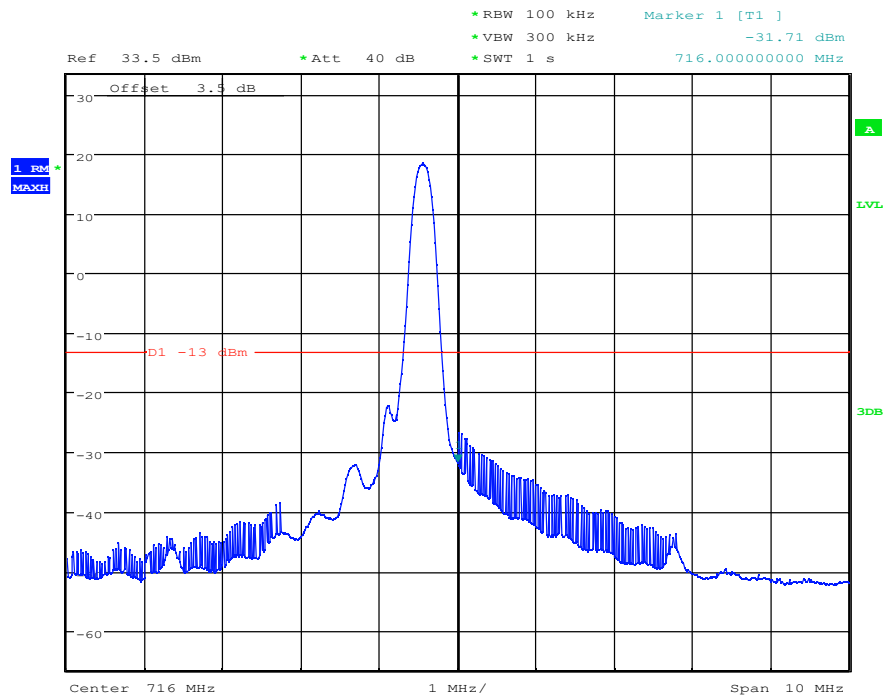
High Channel-3MHz Bandwidth-6RB-QPSK

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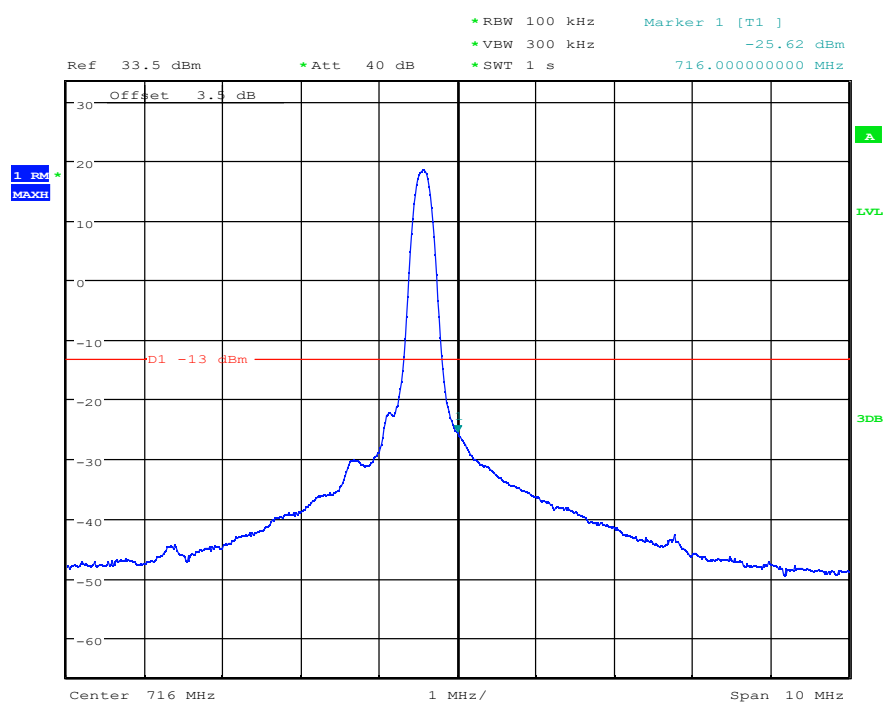


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:11:55

High Channel-5MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 01:13:03

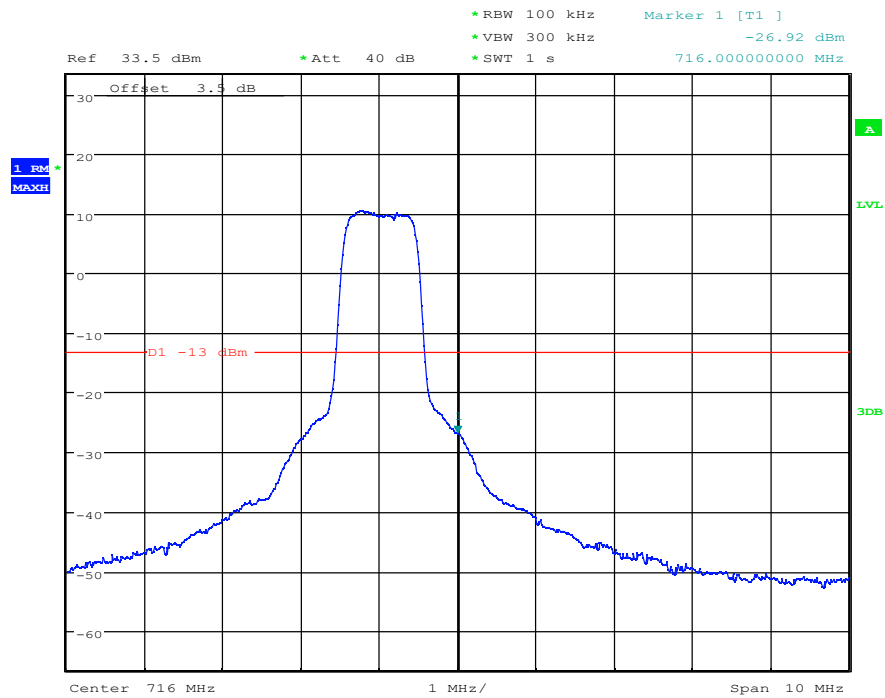
High Channel-5MHz Bandwidth-1RB-QPSK

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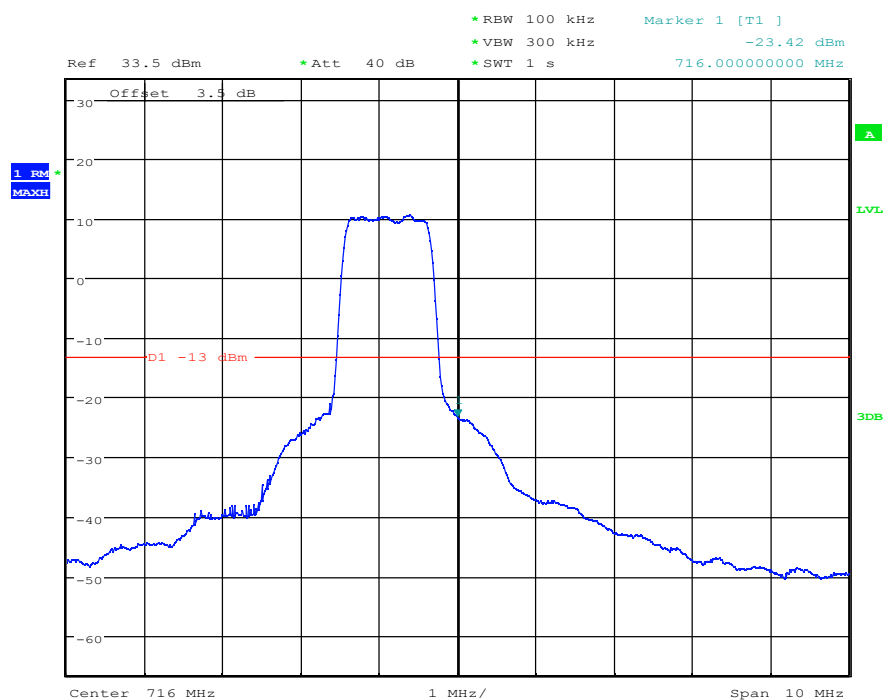


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:09:37

High Channel-5MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 01:14:42

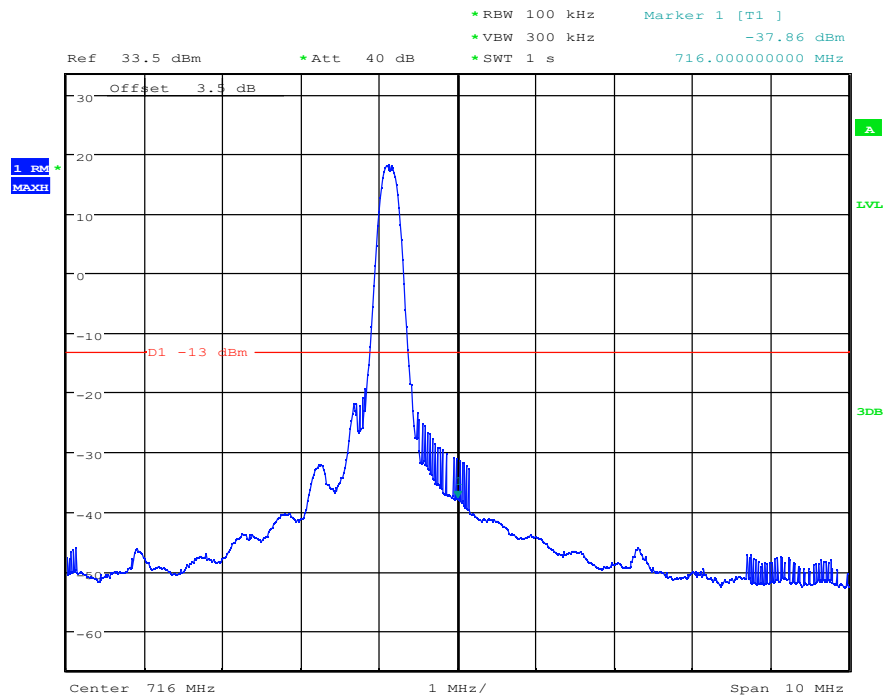
High Channel-5MHz Bandwidth-6RB-QPSK

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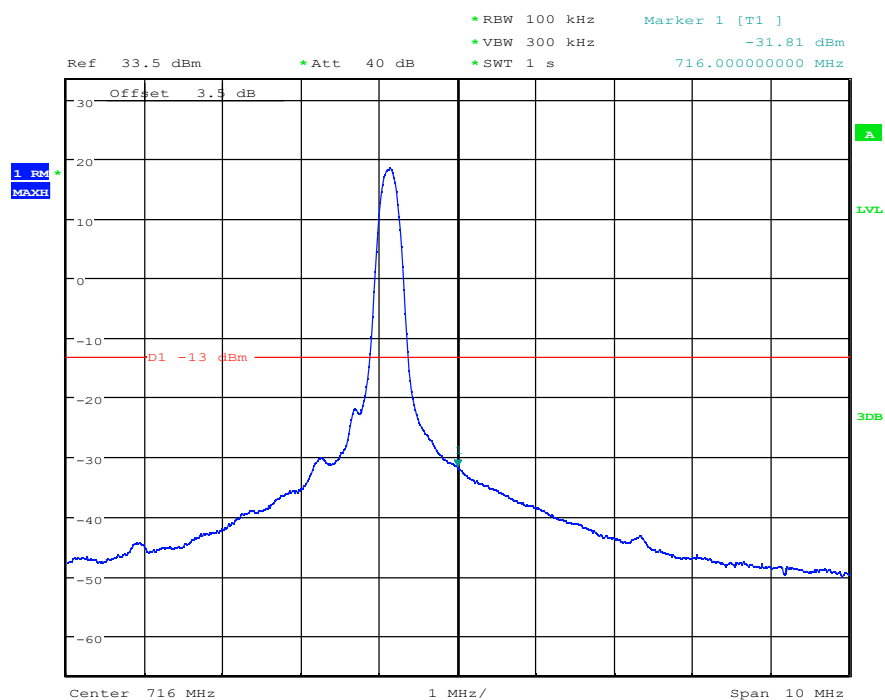


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:25:39

High Channel-10MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 01:26:53

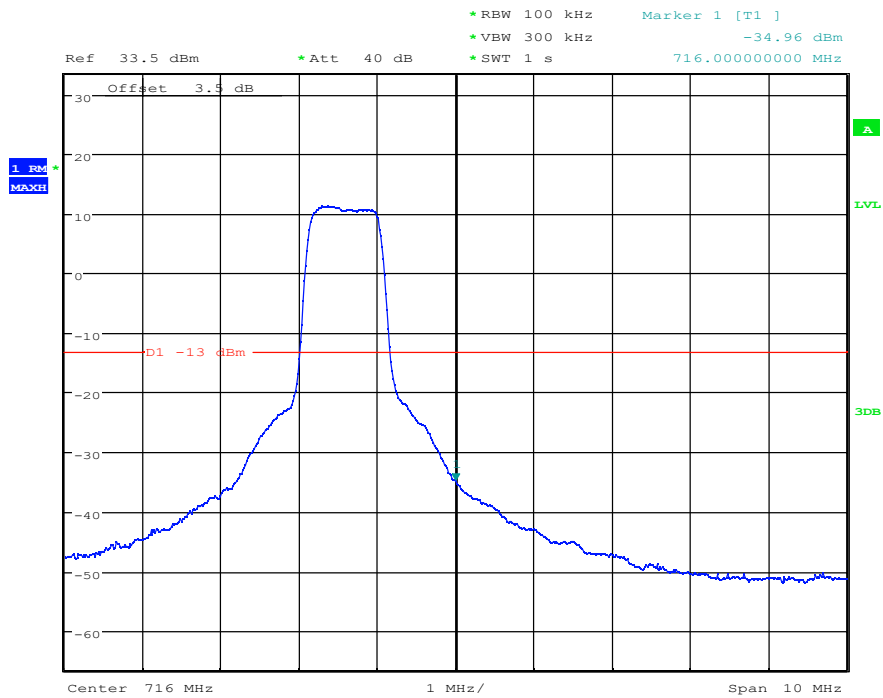
High Channel-10MHz Bandwidth-1RB-QPSK

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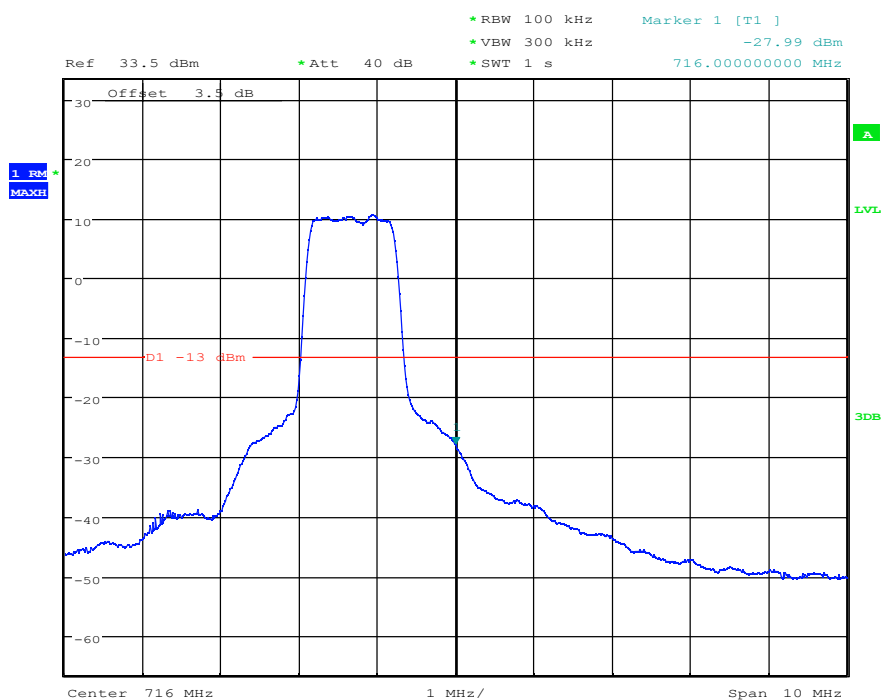


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:24:43

High Channel-10MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 01:29:01

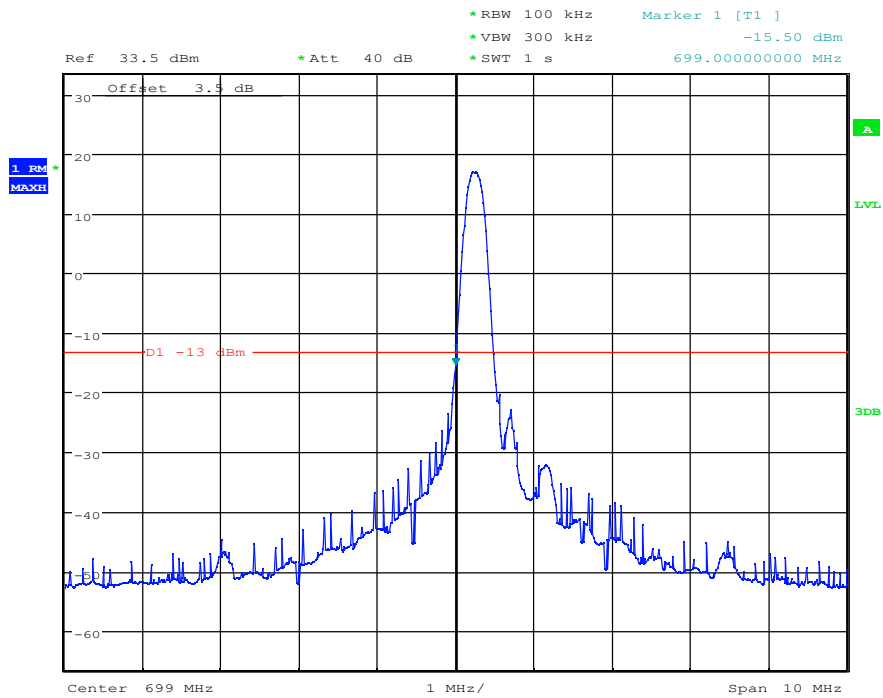
High Channel-10MHz Bandwidth-6RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

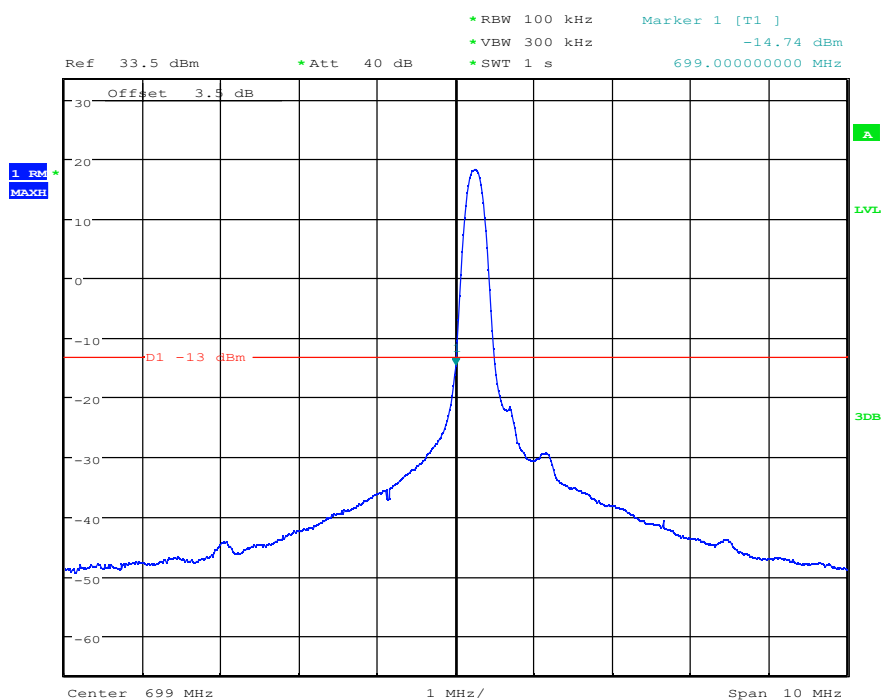


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:32:42

Low Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 00:30:54

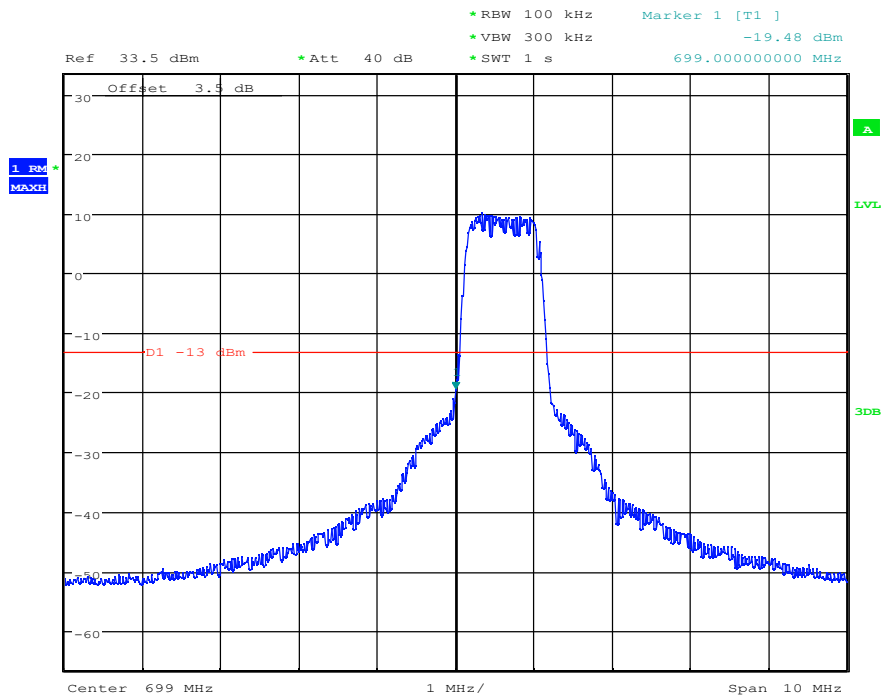
Low Channel-1.4MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

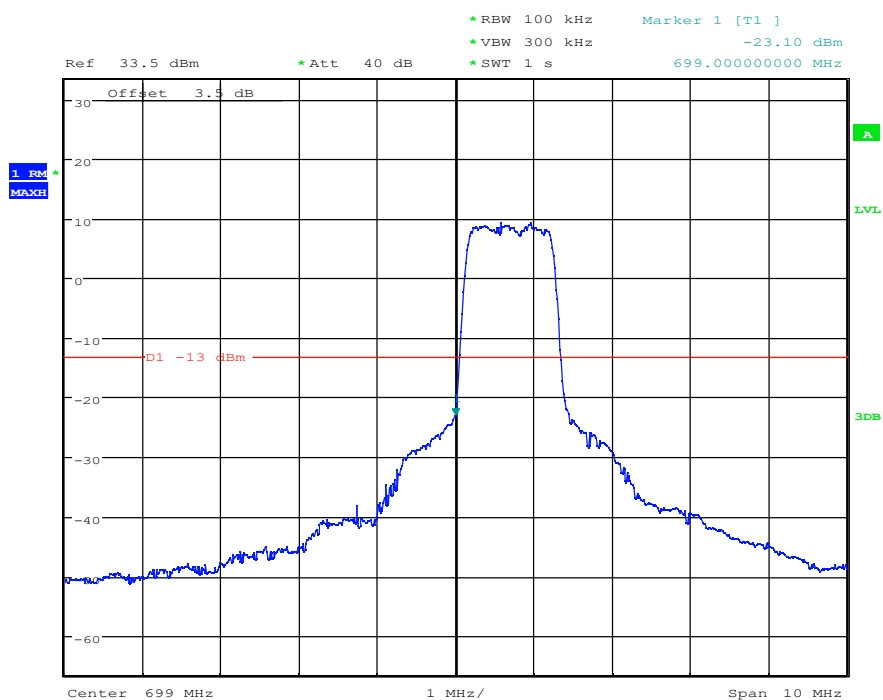


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:33:45

Low Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 00:31:41

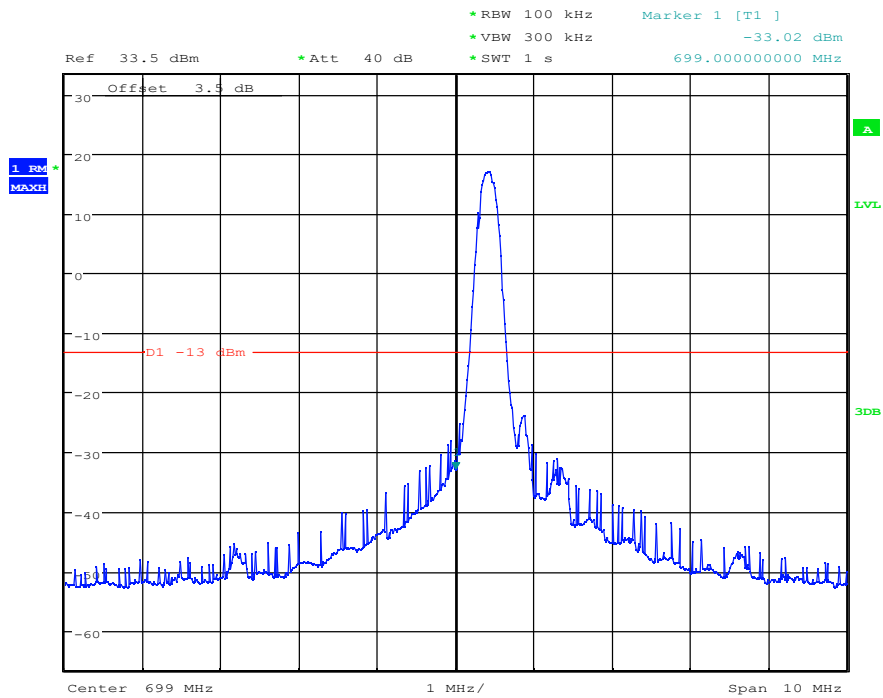
Low Channel-1.4MHz Bandwidth-6RB-QPSK

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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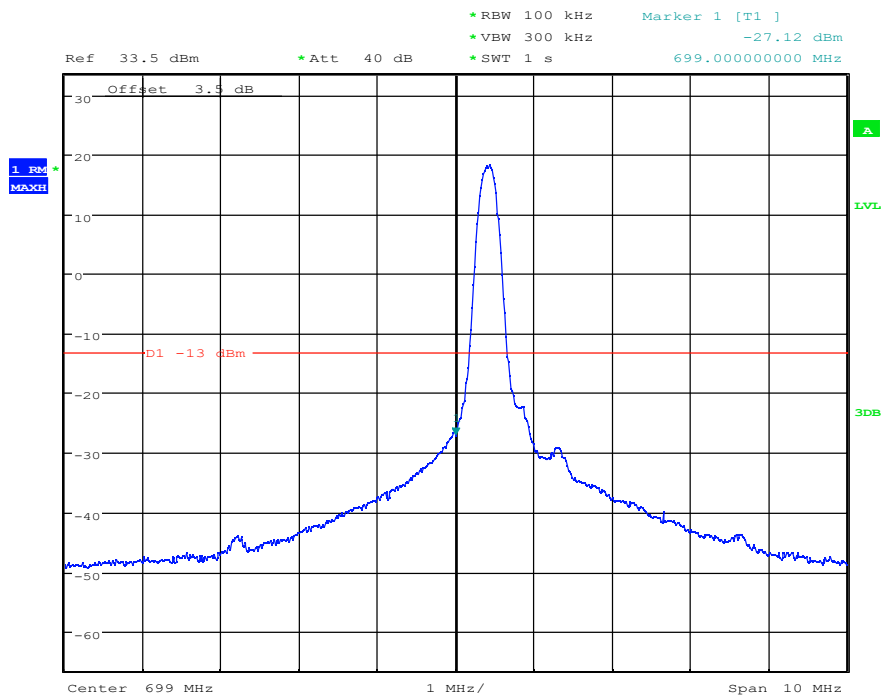


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:46:53

Low Channel-3MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 00:45:56

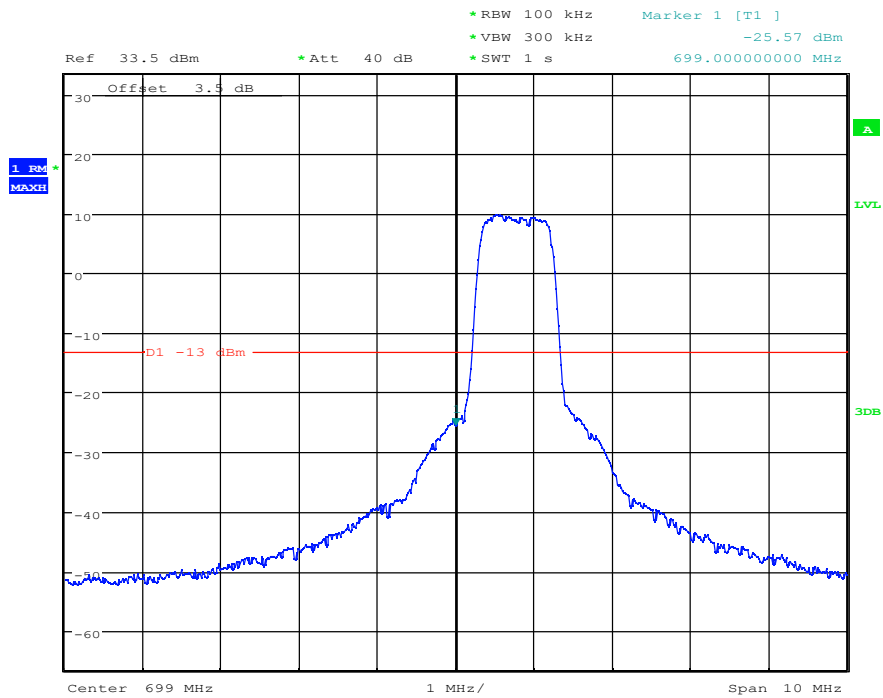
Low Channel-3MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

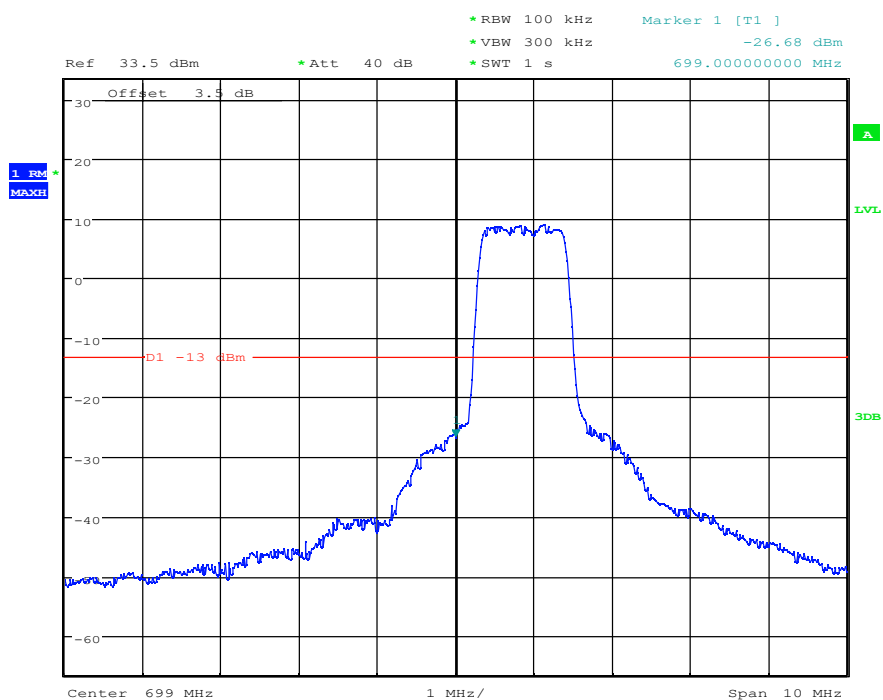


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 00:47:38

Low Channel-3MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 00:44:07

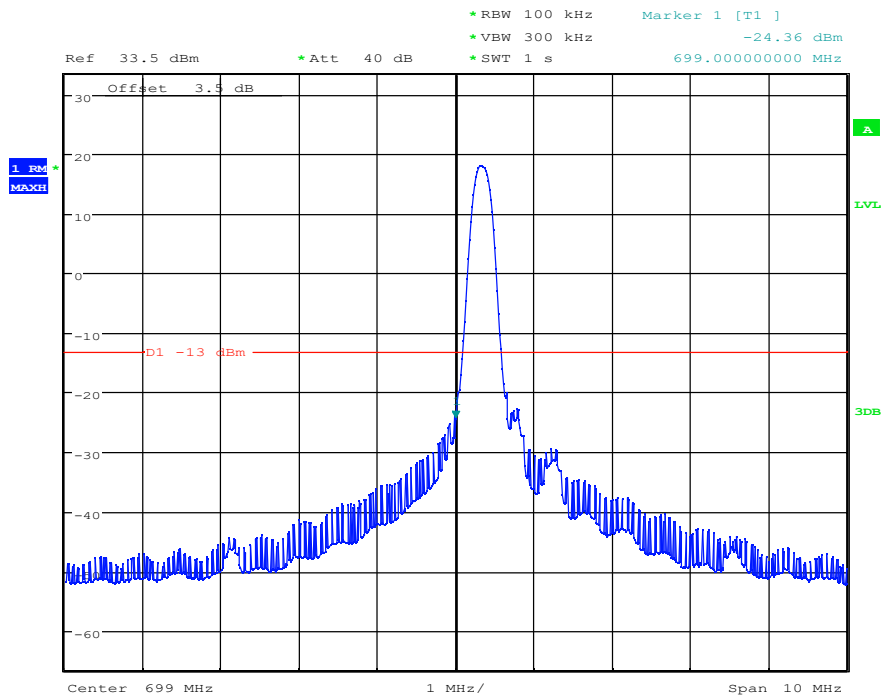
Low Channel-3MHz Bandwidth-6RB-QPSK

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

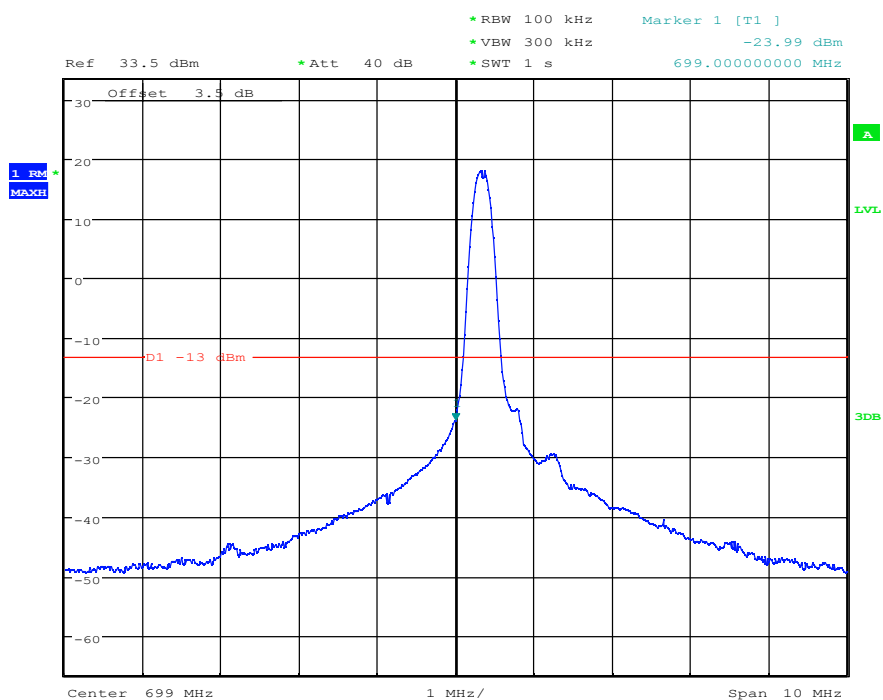


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:03:01

Low Channel-5MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 00:58:55

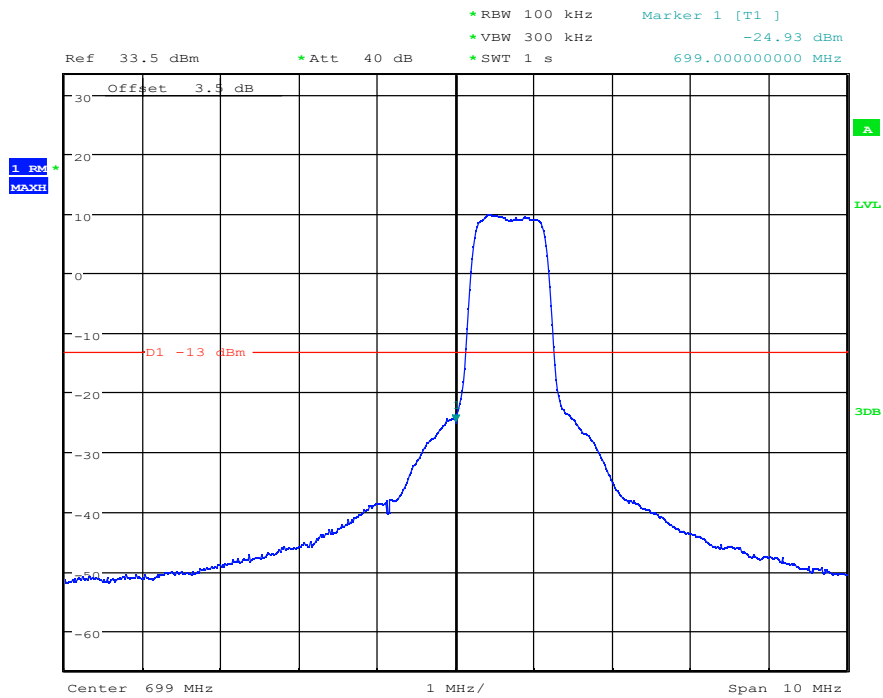
Low Channel-5MHz Bandwidth-1RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

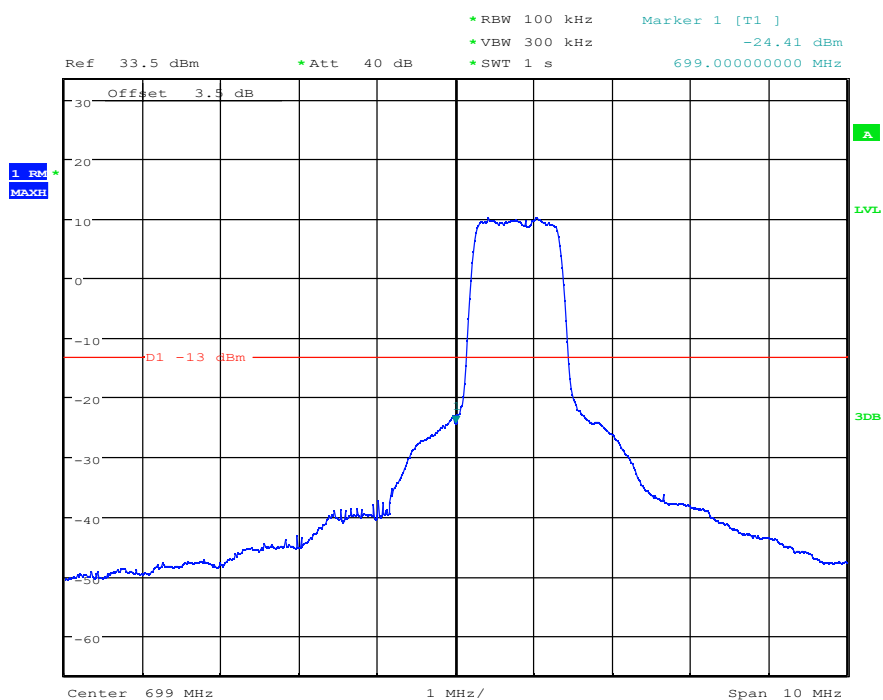


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:05:00

Low Channel-5MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 00:57:53

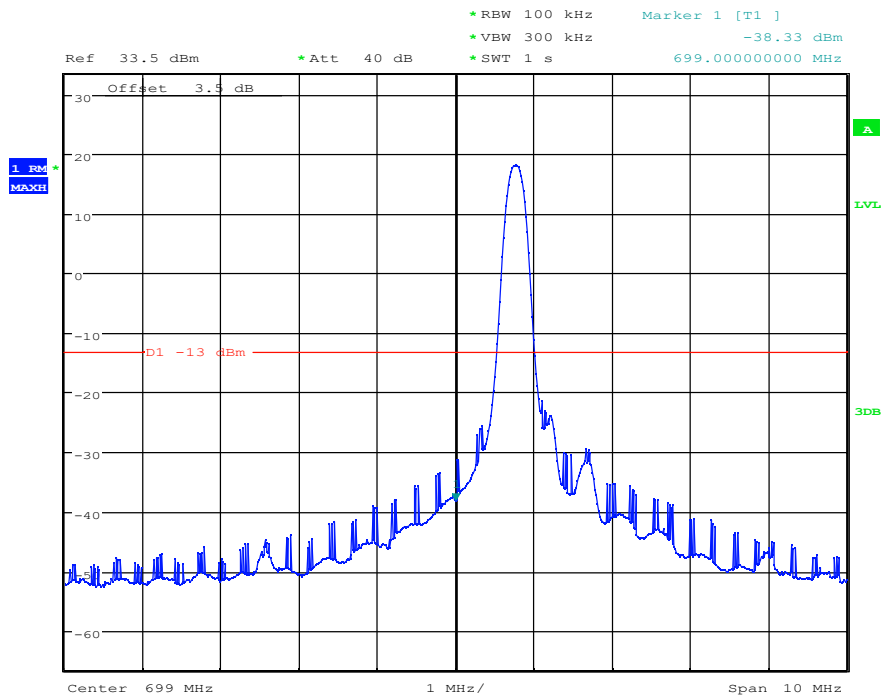
Low Channel-5MHz Bandwidth-6RB-QPSK

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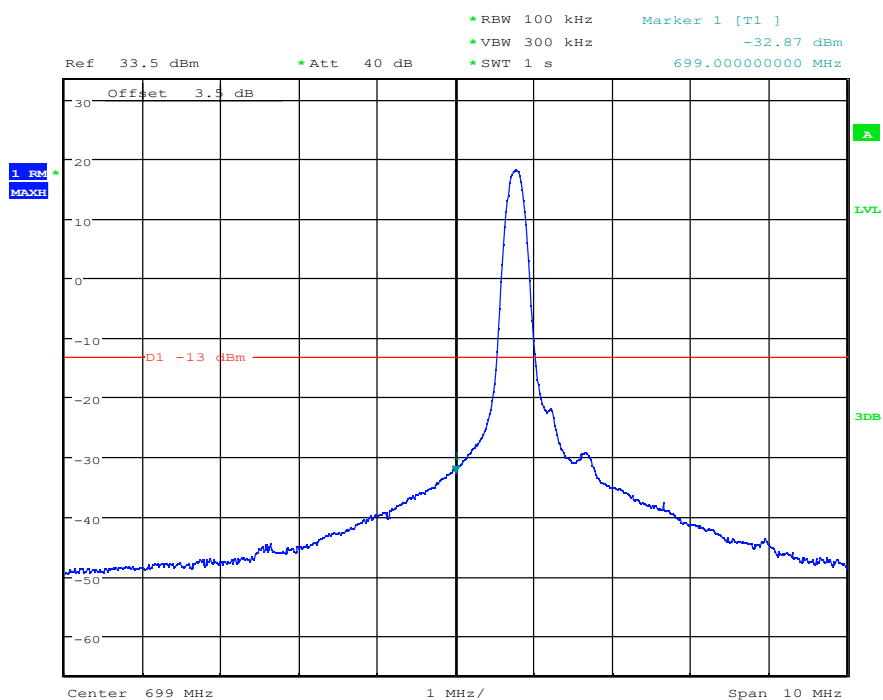


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:19:39

Low Channel-10MHz Bandwidth-1RB-16QAM



Date: 28.DEC.2020 01:18:13

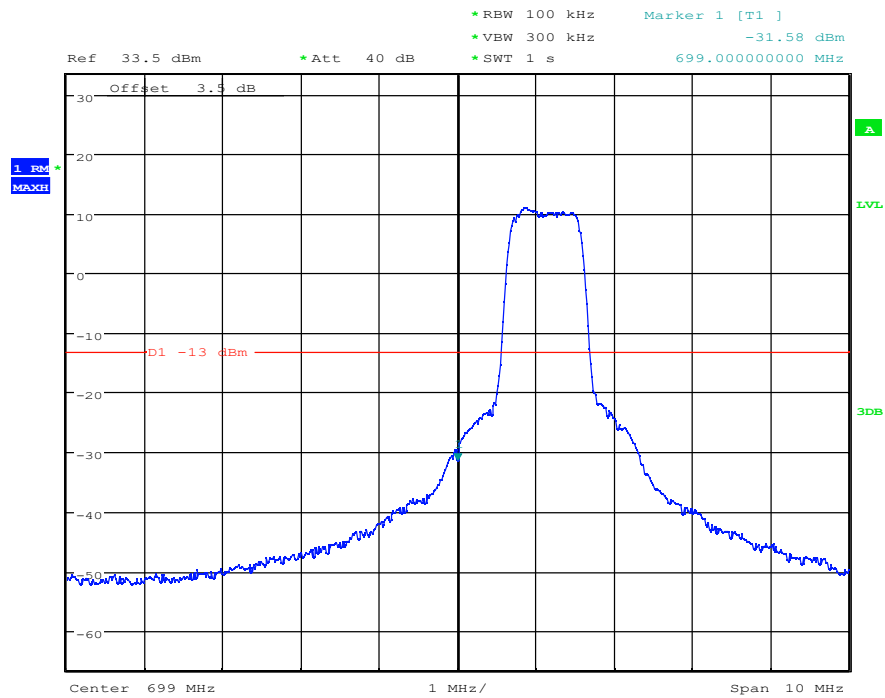
Low Channel-10MHz Bandwidth-1RB-QPSK

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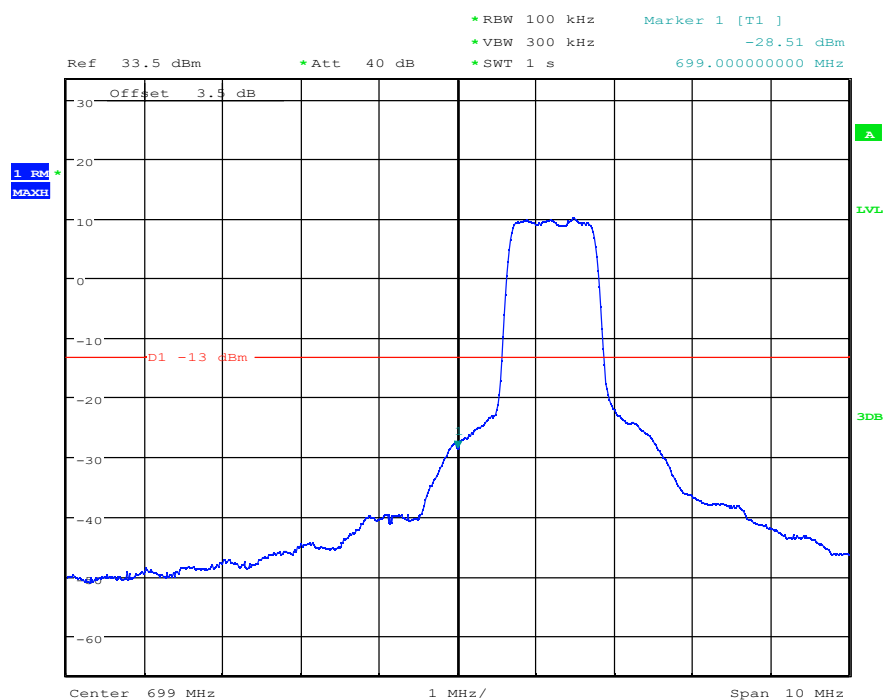


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:20:25

Low Channel-10MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 01:17:22

Low Channel-10MHz Bandwidth-6RB-QPSK

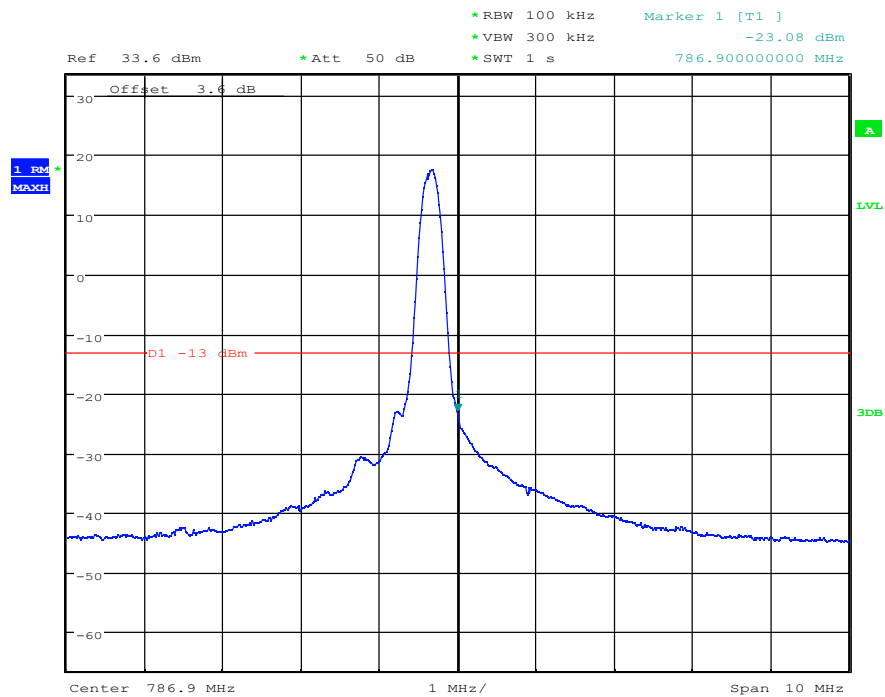
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



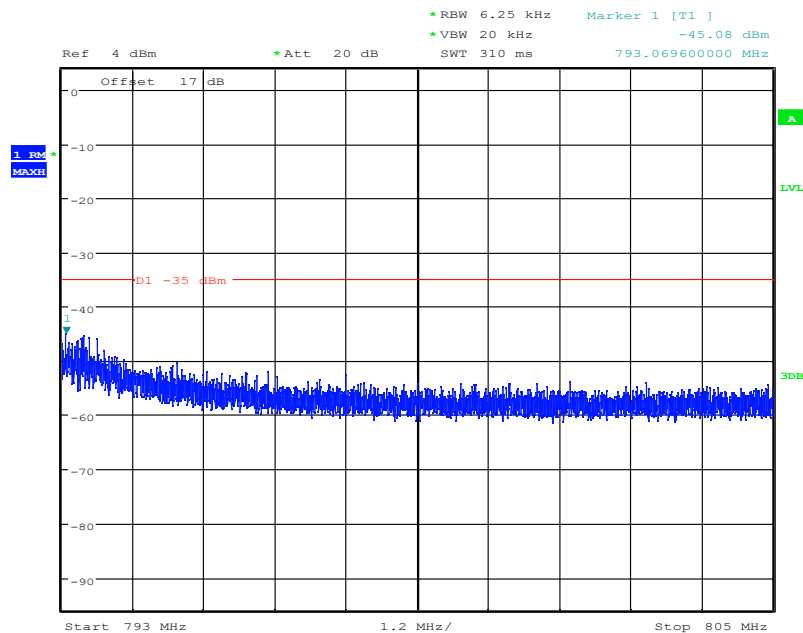
Report No.: I21W00004-WWAN_Rev2

5.5.7 CAT-M Band13 Edge Results



Date: 29.DEC.2020 01:31:14

High Channel-5MHz Bandwidth-1RB-16QAM



Date: 10.JAN.2021 14:24:18

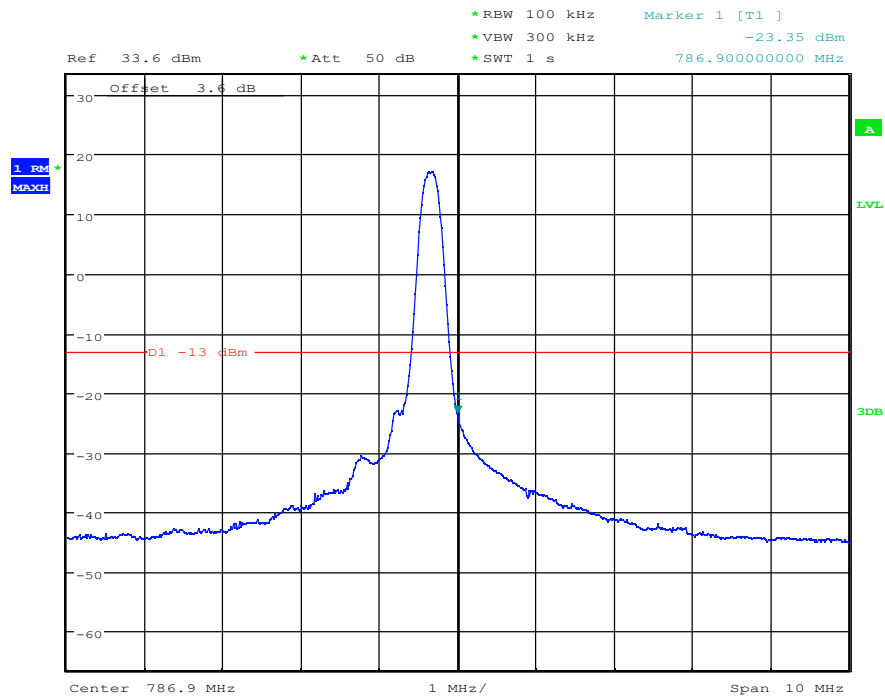
High Channel-5MHz Bandwidth-6RB-16QAM

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Tel: 0086-23-88069965 FAX:0086-23-88608777

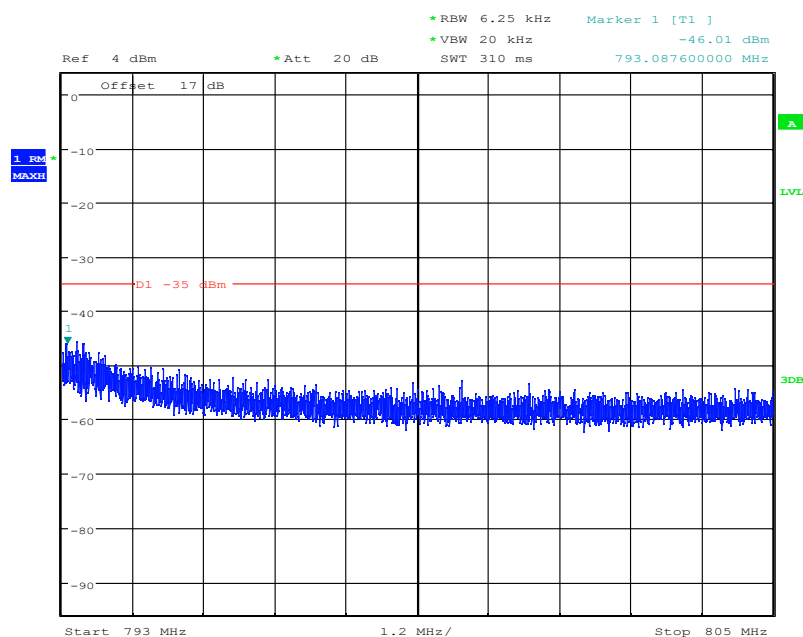


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 01:33:19

High Channel-5MHz Bandwidth-1RB-QPSK



Date: 10.JAN.2021 14:24:46

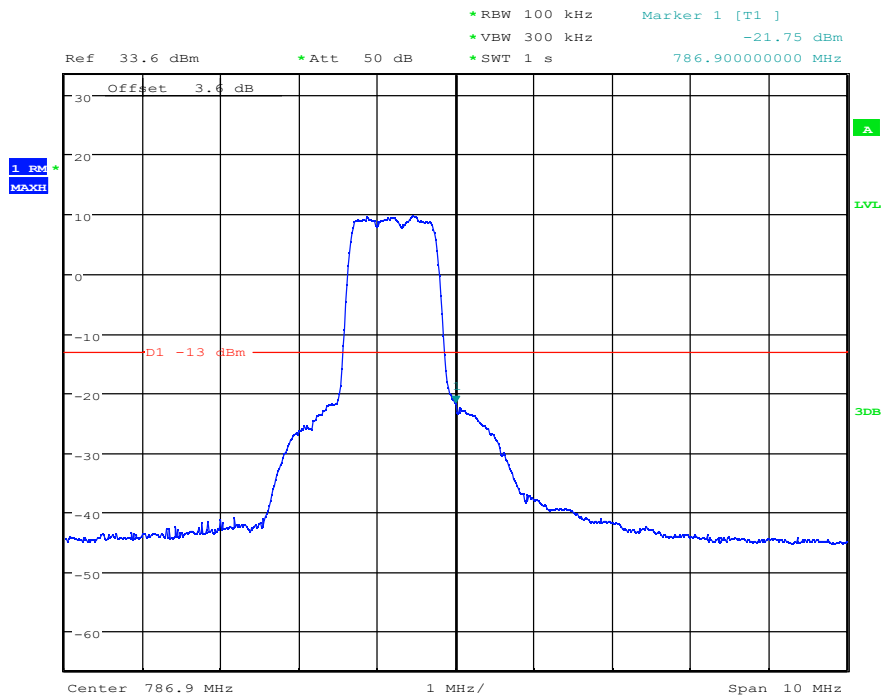
High Channel-5MHz Bandwidth-6RB-QPSK

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

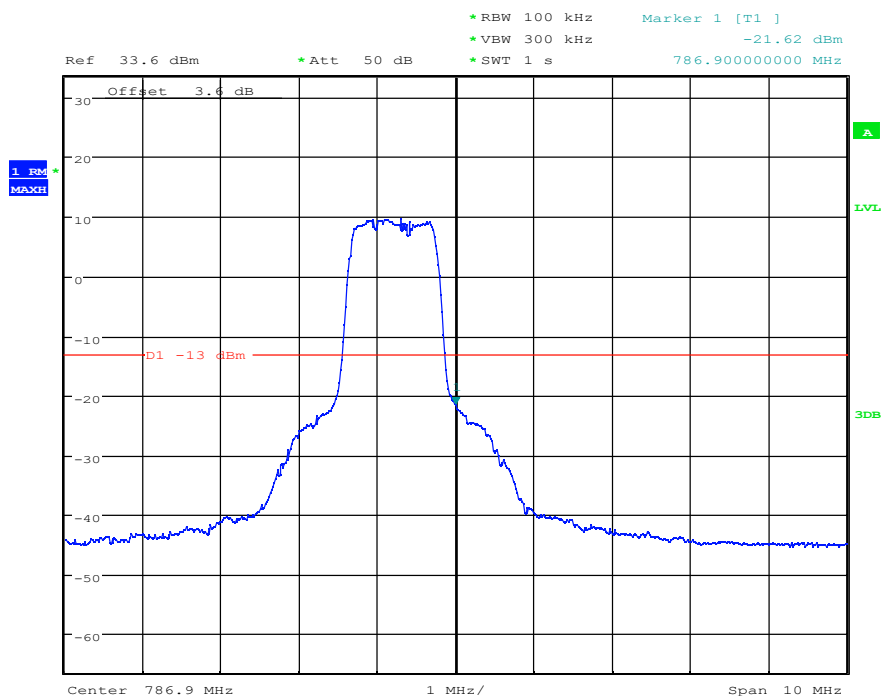


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 01:28:58

High Channel-5MHz Bandwidth-6RB-16QAM



Date: 29.DEC.2020 01:34:16

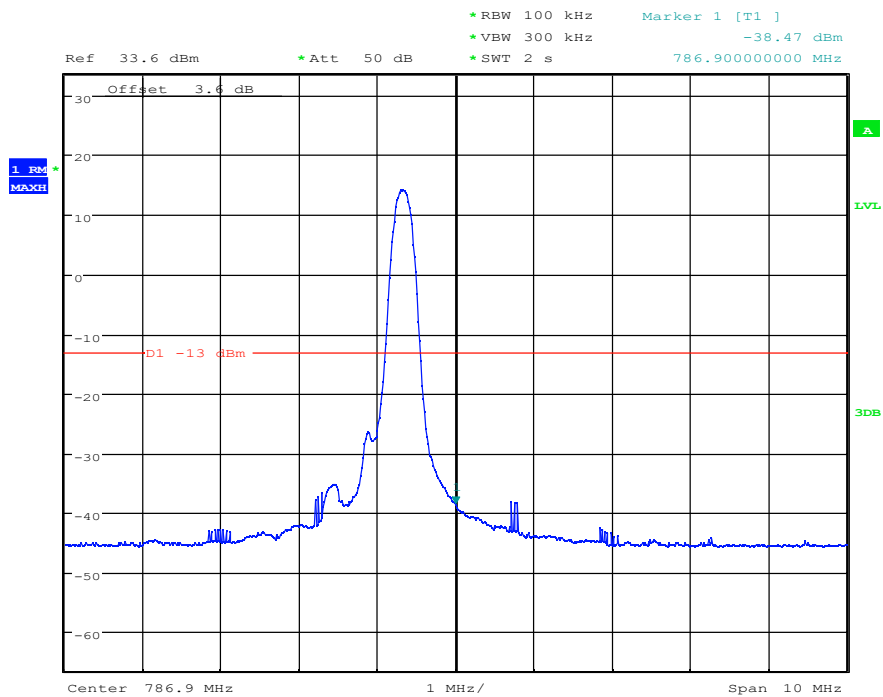
High Channel-5MHz Bandwidth-6RB-QPSK

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Tel: 0086-23-88069965 FAX:0086-23-88608777

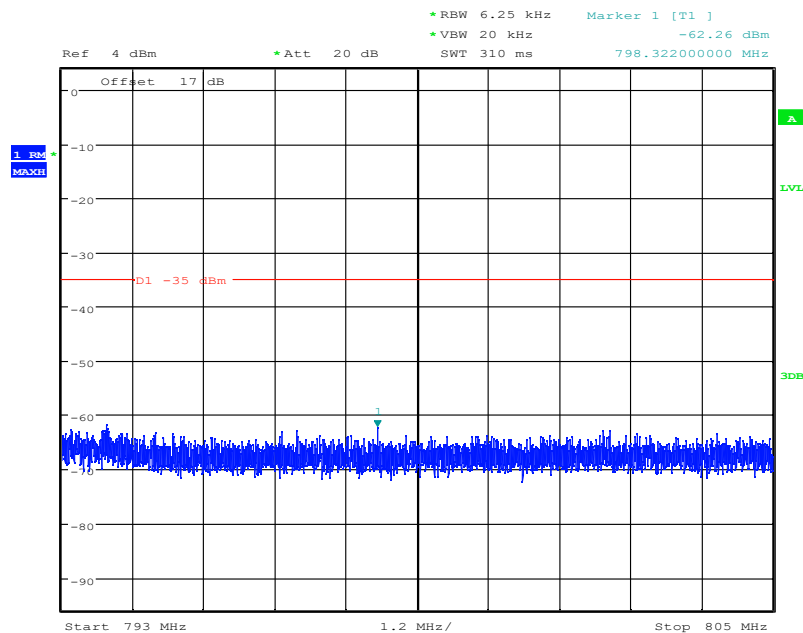


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:30:47

High Channel-10MHz Bandwidth-1RB-16QAM



Date: 10.JAN.2021 14:26:49

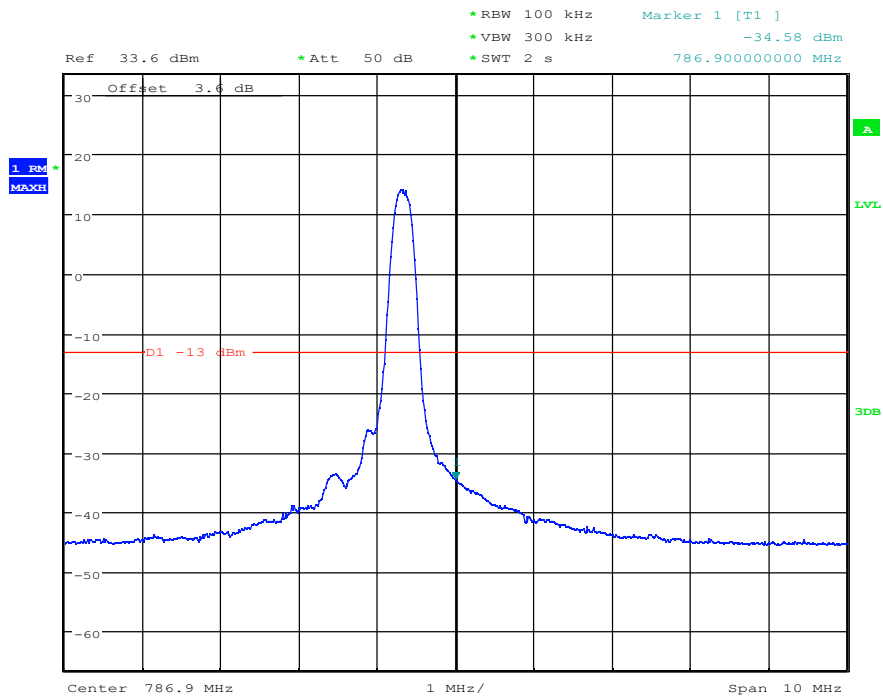
High Channel-10MHz Bandwidth-6RB-16QAM

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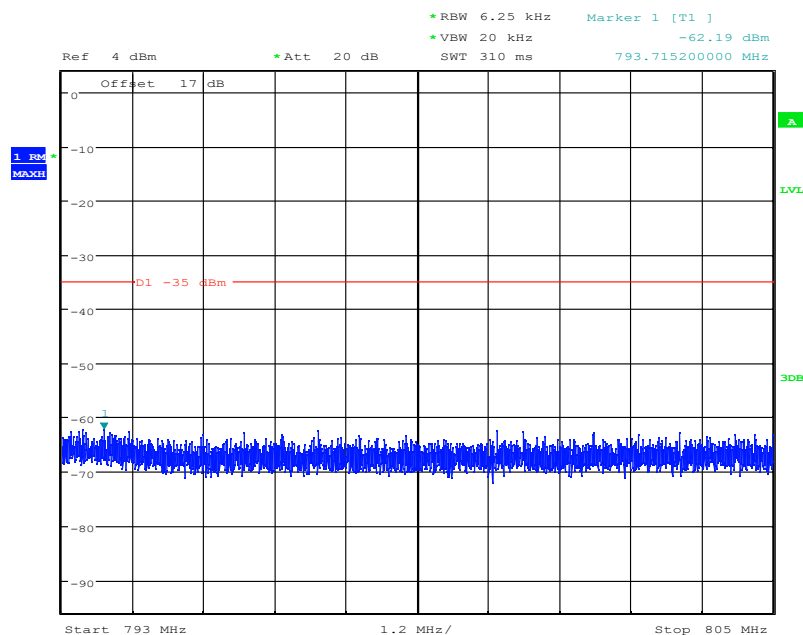


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:28:49

High Channel-10MHz Bandwidth-1RB-QPSK



Date: 10.JAN.2021 14:27:10

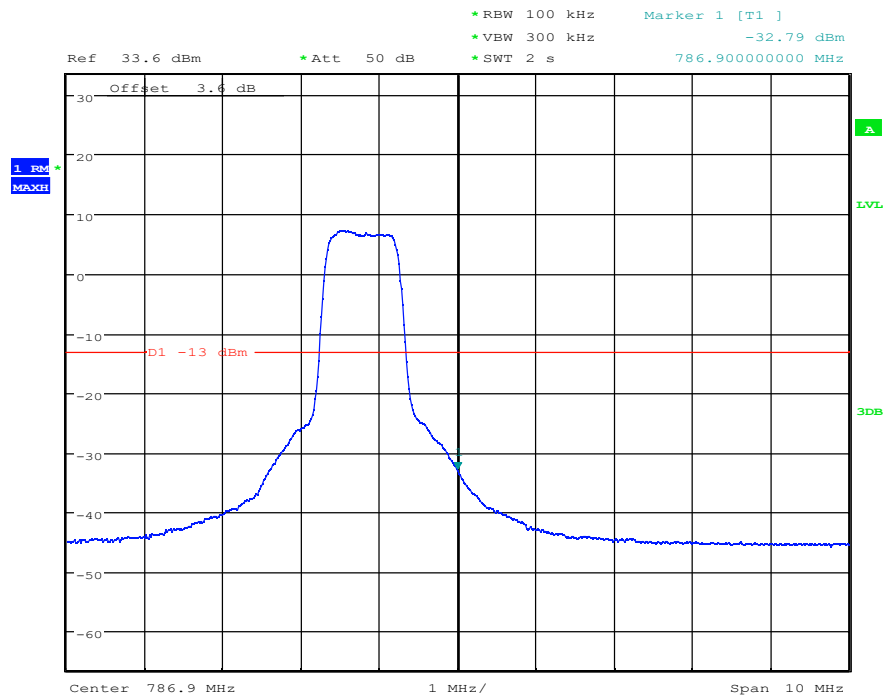
High Channel-10MHz Bandwidth-6RB-QPSK

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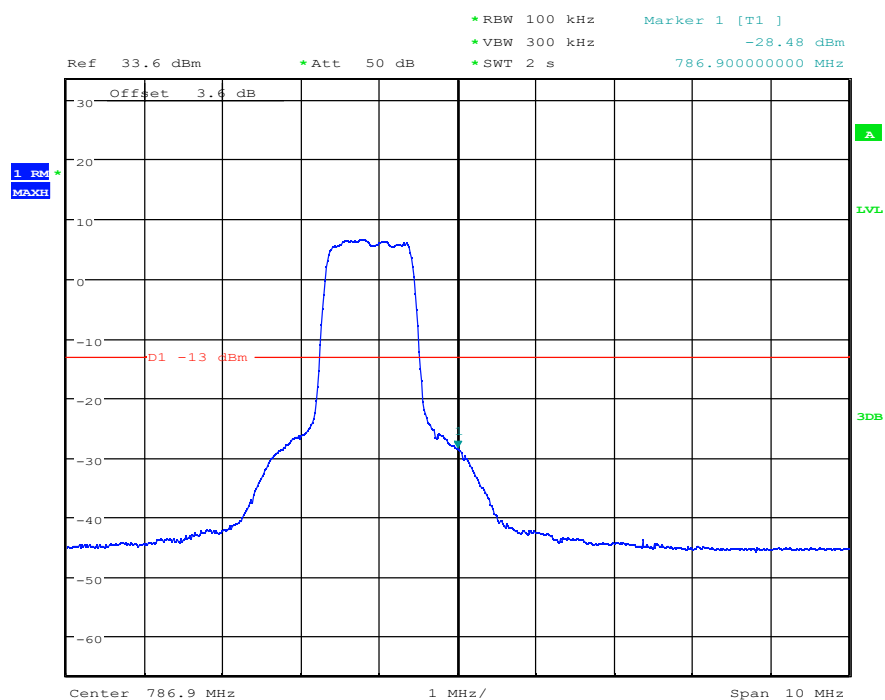


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:30:12

High Channel-10MHz Bandwidth-6RB-16QAM



Date: 29.DEC.2020 05:29:27

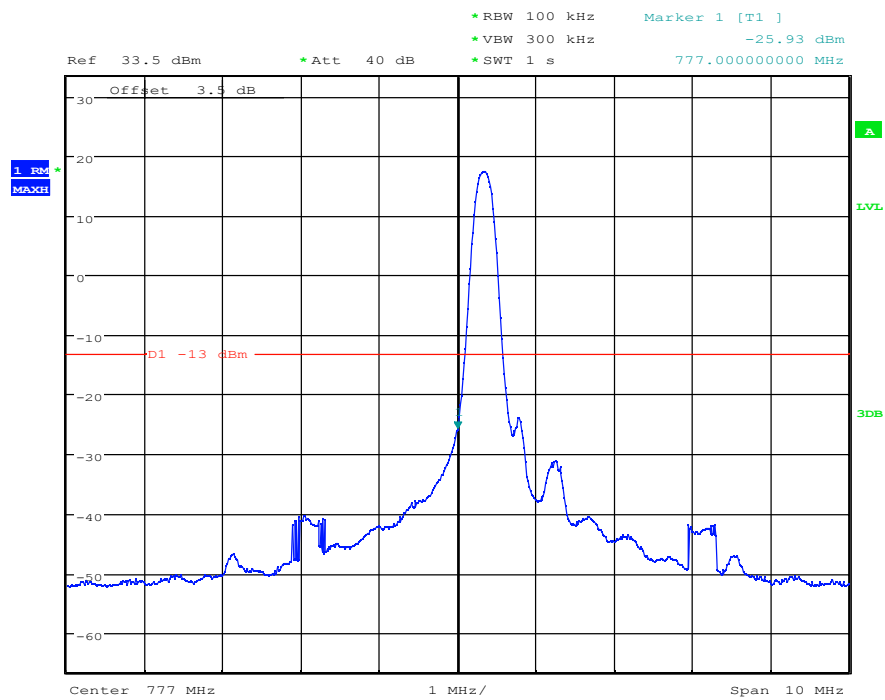
High Channel-10MHz Bandwidth-6RB-QPSK

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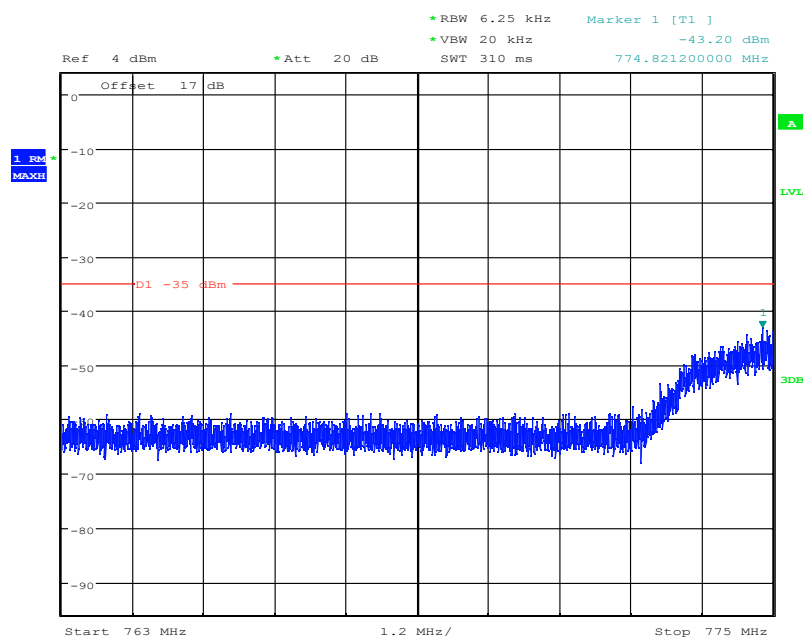


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:35:34

Low Channel-5MHz Bandwidth-1RB-16QAM



Date: 10.JAN.2021 14:21:54

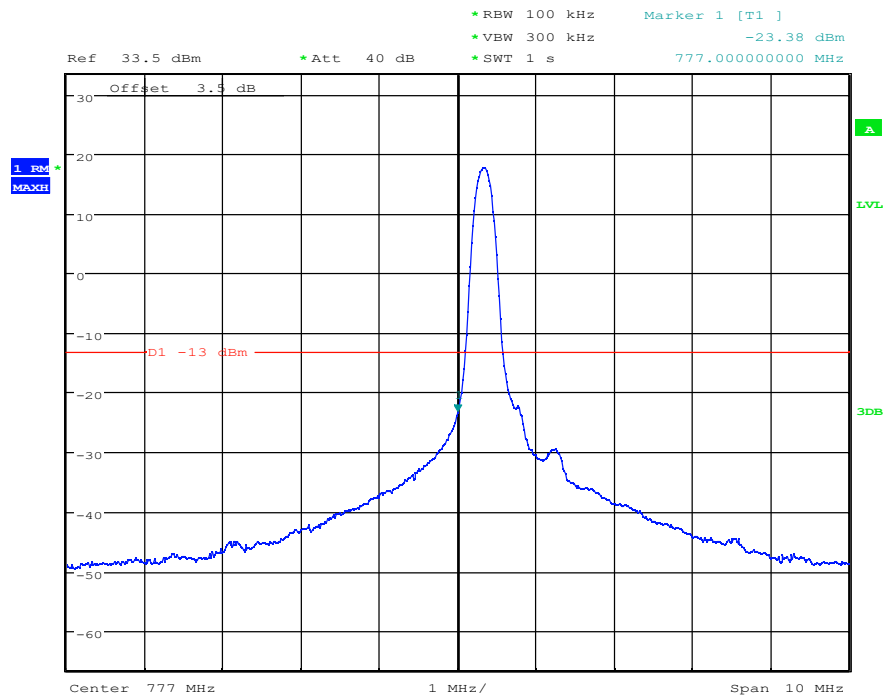
Low Channel-5MHz Bandwidth-6RB-16QAM

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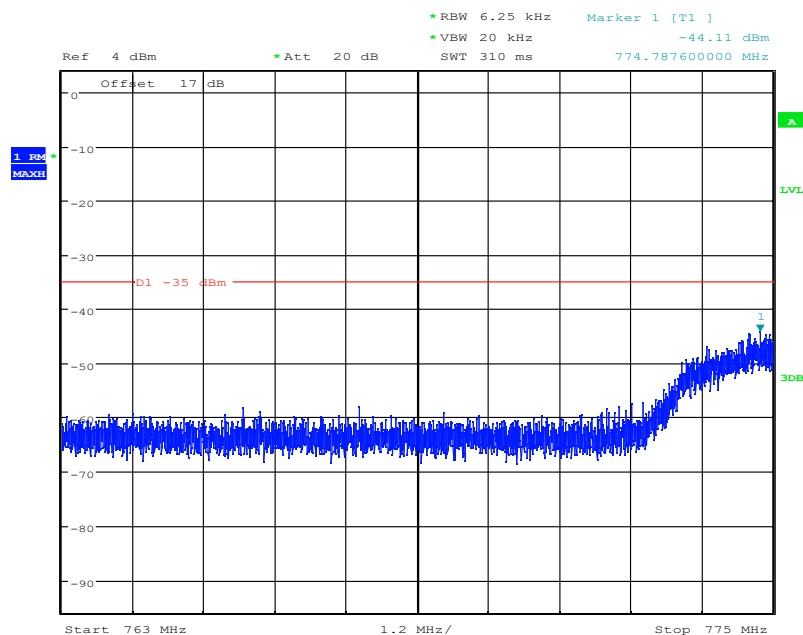


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:34:20

Low Channel-5MHz Bandwidth-1RB-QPSK



Date: 10.JAN.2021 14:22:08

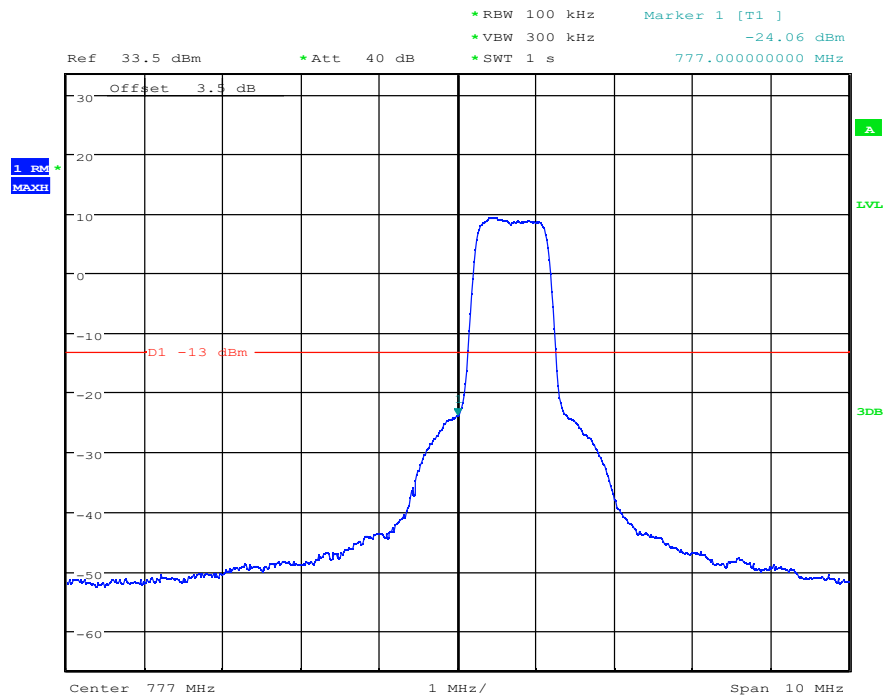
Low Channel-5MHz Bandwidth-1RB-QPSK

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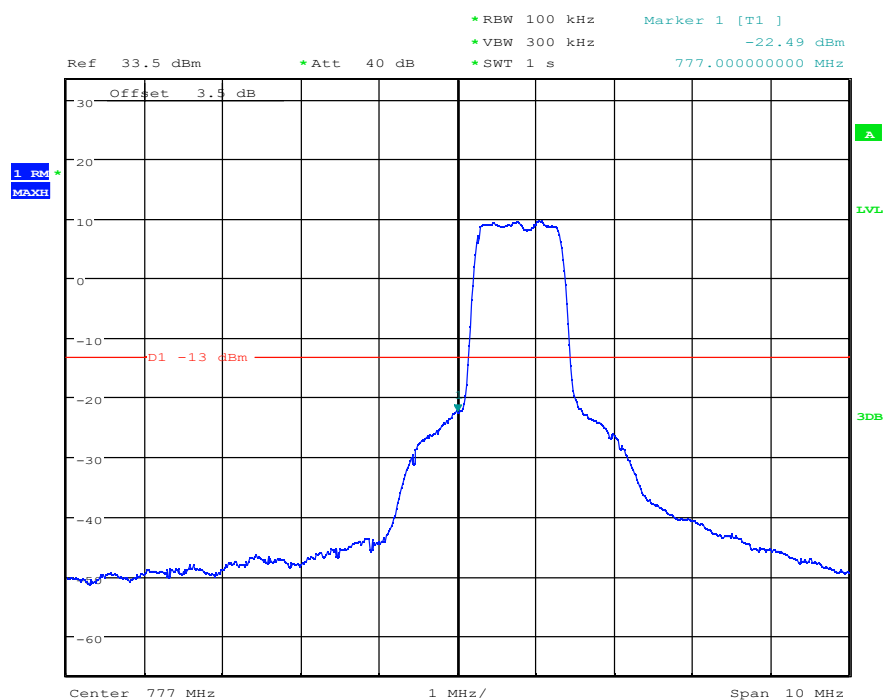


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 01:36:38

Low Channel-5MHz Bandwidth-6RB-16QAM



Date: 28.DEC.2020 01:33:15

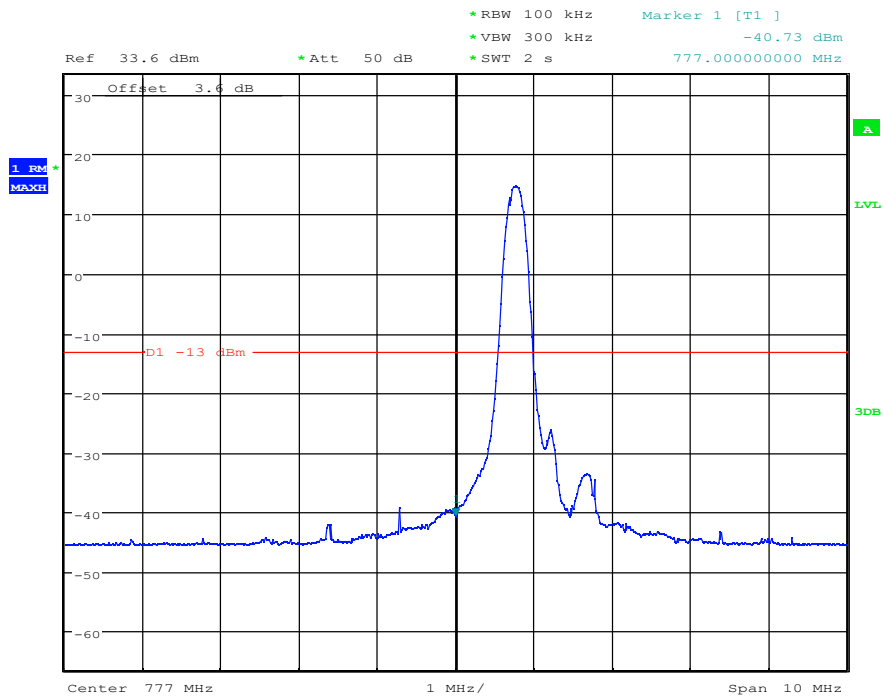
Low Channel-5MHz Bandwidth-6RB-QPSK

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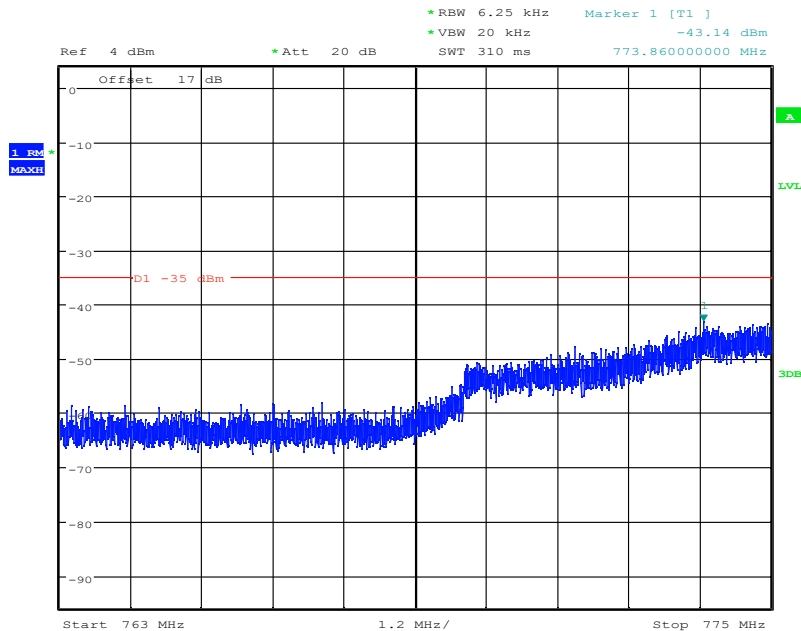


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:26:28

Low Channel-10MHz Bandwidth-1RB-16QAM



Date: 10.JAN.2021 14:21:01

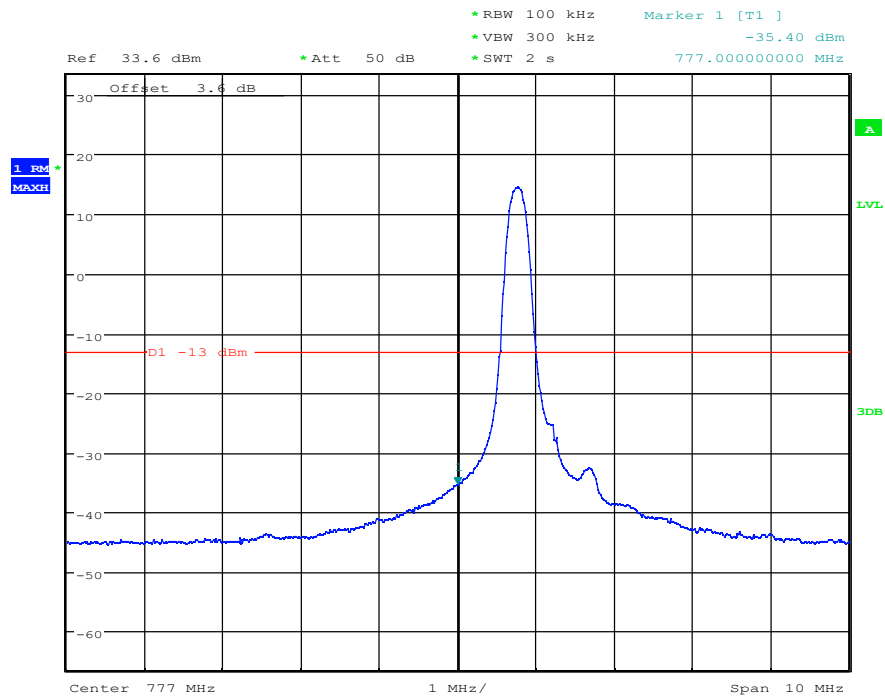
Low Channel-10MHz Bandwidth-6RB-16QAM

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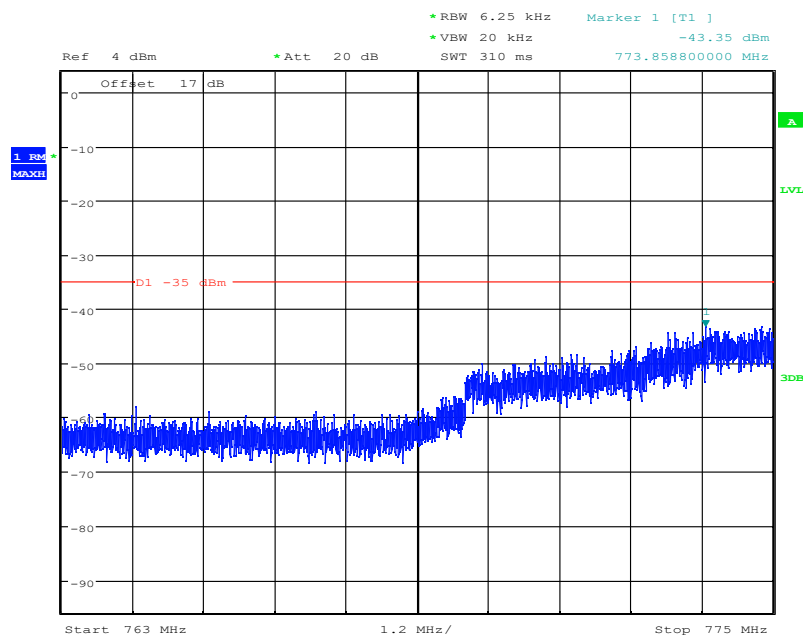


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:24:08

Low Channel-10MHz Bandwidth-1RB-QPSK



Date: 10.JAN.2021 14:21:17

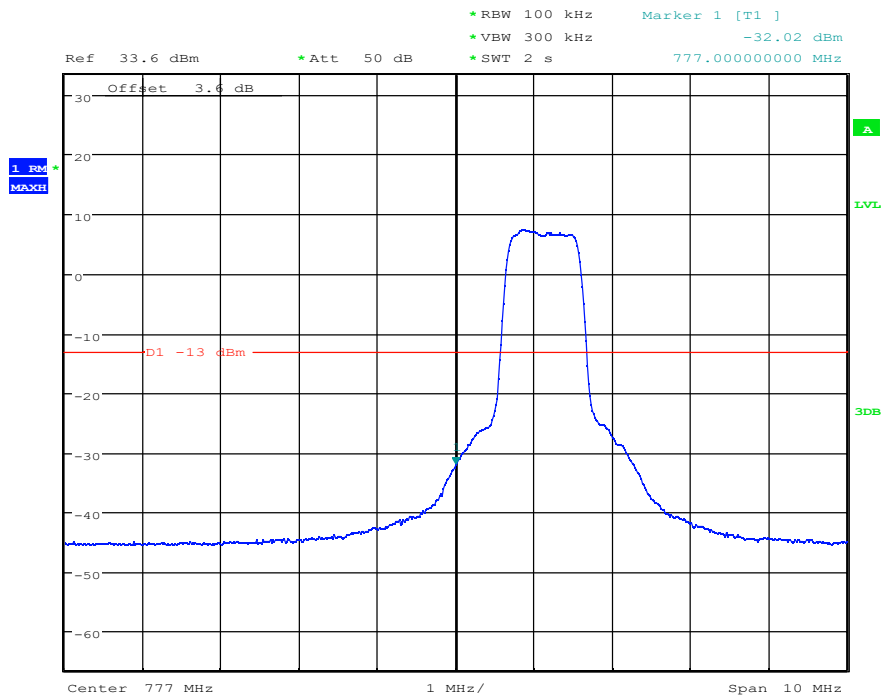
Low Channel-10MHz Bandwidth-6RB-QPSK

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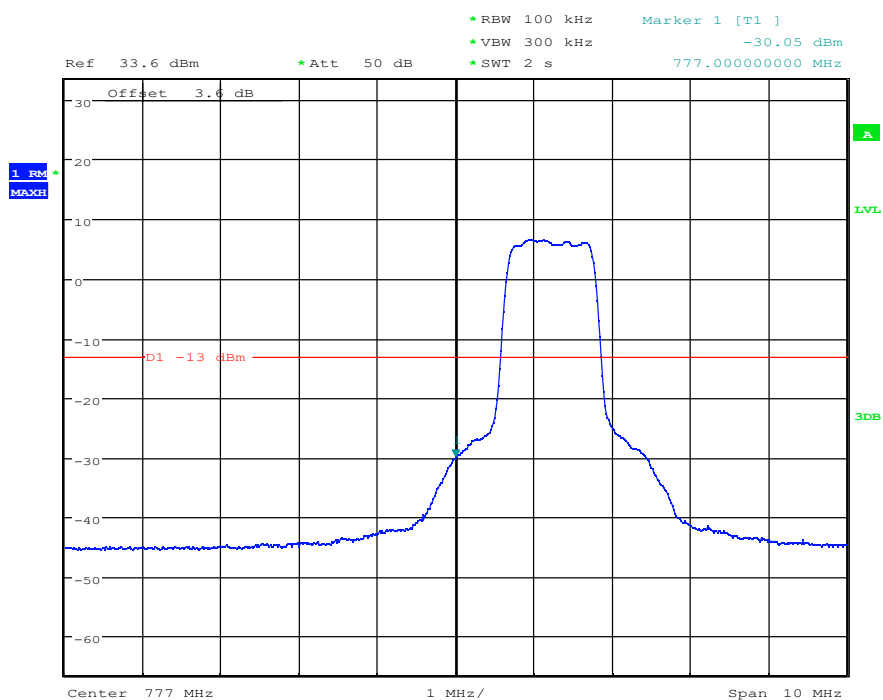


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 05:25:49

Low Channel-10MHz Bandwidth-6RB-16QAM



Date: 29.DEC.2020 05:24:51

Low Channel-10MHz Bandwidth-6RB-QPSK

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Report No.: I21W00004-WWAN_Rev2

5.6 Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54,90.213
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

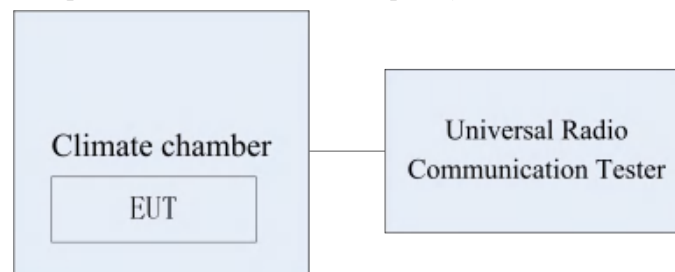
Limit	
Frequency deviation [ppm]	±2.5

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	15 Hz (k=2)

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.



Test Method

- 1、 The EUT was turned off and placed in the temperature chamber.
- 2、 The temperature of the chamber was set to -30°C and allowed to stabilize.
- 3、 The EUT temperature was allowed to stabilize for 45 minutes.
- 4、 The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.
- 5、 The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
- 6、 The steps 3-5 were repeated for -30°C,-20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

Note: Only worst case result is given below.

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Report No.: I21W00004-WWAN_Rev2

5.6.1 GSM Band Frequency Stability over Temperature Variation Results

Band	Reference channel frequency (MHz)	Offset	Temperature[°C]								
			-30	-20	-10	0	10	20	30	40	50
GSM850 GMSK	836.5	Hz	17.61	-18.11	5.83	10.01	-2.12	3.01	-4.11	-3.08	8.78
		ppm	0.021	-0.022	0.007	0.012	-0.003	0.004	-0.005	-0.004	0.010
GSM850 8PSK	836.5	Hz	-13.55	-14.20	4.08	-6.55	7.14	2.08	4.44	6.17	-7.02
		ppm	-0.016	-0.017	0.005	-0.008	0.009	0.002	0.005	0.007	-0.008
PCS1900 GMSK	1880	Hz	11.51	-10.98	5.71	4.30	-5.00	3.89	-1.42	-4.57	5.11
		ppm	0.006	-0.006	0.003	0.002	-0.003	0.002	-0.001	-0.002	0.003
PCS1900 8PSK	1880	Hz	-10.00	-9.71	6.87	3.32	-5.61	-2.10	1.11	-5.10	-3.26
		ppm	-0.005	-0.005	0.004	0.002	-0.003	-0.001	0.001	-0.003	-0.002

5.6.2 CAT-M Band Frequency Stability over Temperature Variation Results

Band	Reference channel frequency (MHz)	Offset	Temperature[°C]								
			-30	-20	-10	0	10	20	30	40	50
2	1880	Hz	9.15	7.06	-8.09	13.27	-16.05	-7.07	12.14	-10.92	7.82
		ppm	0.005	0.004	-0.004	0.007	-0.008	-0.004	0.006	-0.006	0.004
4	1732.5	Hz	13.39	-20.07	10.09	-12.37	9.28	7.52	-16.67	7.89	11.52
		ppm	0.008	-0.011	0.006	-0.007	0.005	0.004	-0.010	0.004	0.007
5	707.5	Hz	6.96	17.89	7.39	-5.27	15.34	9.22	-11.05	-6.97	15.09
		ppm	0.008	0.021	0.009	-0.006	0.018	0.011	-0.013	-0.008	0.018
12	707.5	Hz	2.71	3.48	0.34	0.59	1.94	0.09	0.59	1.85	0.21
		ppm	0.0038	0.0048	0.0005	0.0008	0.0027	0.0001	0.0008	0.0026	0.0003
13	782	Hz	2.27	-0.36	0.02	3.04	-0.70	-0.07	2.00	0.12	-0.2
		ppm	0.0024	-0.0005	0.00003	0.0039	-0.0009	-0.0001	0.0026	0.0001	-0.0003

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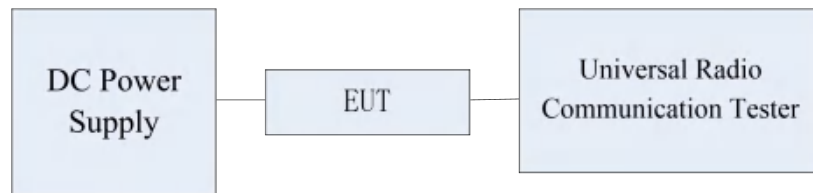
5.7 Frequency Stability over Voltage Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54,90.213
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit	
Frequency deviation [ppm]	±2.5

Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.



Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	15 Hz (k=2)

Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

Note: Only worst case result is given below.

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5.7.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Reference channel frequency (MHz)	Offset	Voltage (V)		
			3.4	3.8	4.2
GSM850 GMSK	836.5	Hz	3.61	-1.01	3.41
		ppm	0.004	-0.001	0.004
GSM850 8PSK	836.5	Hz	-5.60	-0.78	2.30
		ppm	-0.007	-0.001	0.003
PCS1900 GMSK	1880	Hz	1.09	1.77	-1.56
		ppm	0.001	0.001	-0.001
PCS1900 8PSK	1880	Hz	2.11	-0.11	-4.01
		ppm	0.001	-0.001	-0.002

5.7.2 CAT-M Band Frequency Stability over Voltage Variation Results

Test data:

Band	Reference channel frequency (MHz)	Offset	Voltage (V)		
			3.4	3.8	4.2
2	1880	Hz	14.91	10.36	-8.92
		ppm	0.008	0.005	-0.005
4	1732.5	Hz	6.15	8.30	-10.73
		ppm	0.003	0.005	-0.006
5	707.5	Hz	-11.05	7.53	-8.21
		ppm	-0.013	0.009	-0.010
12	707.5	Hz	3.97	1.10	2.85
		ppm	0.0056	0.0016	0.004
13	782	Hz	0.16	2.84	0.47
		ppm	0.0002	0.0036	0.0006

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5.8 Peak to Average Ratio

Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

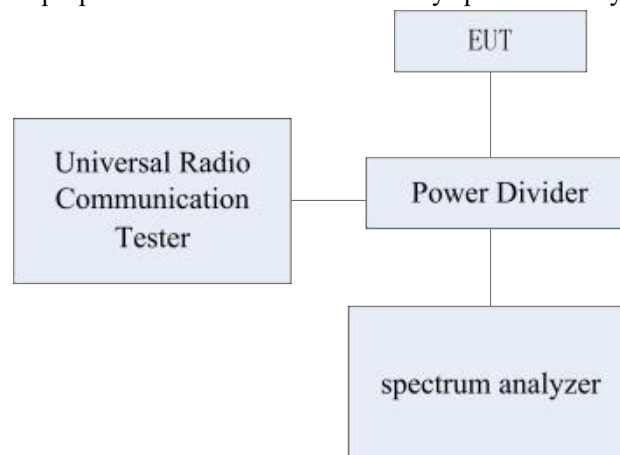
The EUT meets the requirement of having a peak to average ratio of less than 13dB.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.52 dB (k=2)

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

Note: Only worst case result is given below.

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5.8.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	Channel	Modulation	PAPR(dB)
836.6	190	GMSK	10.57
		8PSK	11.39

5.8.2 PCS1900 Peak to Average Ratio Results

Frequency (MHz)	Channel	Modulation	PAPR(dB)
1880	661	GMSK	9.33
		8PSK	9.25

5.8.3 CAT-M Peak to Average Ratio Results

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band2	1.4MHz	QPSK	18900/1880	11.92
		16QAM	18900/1880	12.60
	3MHz	QPSK	18900/1880	9.90
		16QAM	18900/1880	12.50
	5MHz	QPSK	18900/1880	11.31
		16QAM	18900/1880	11.73
	10MHz	QPSK	18900/1880	10.96
		16QAM	18900/1880	12.24
	15MHz	QPSK	18900/1880	10.48
		16QAM	18900/1880	12.05
	20MHz	QPSK	18900/1880	10.74
		16QAM	18900/1880	10.83
Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band4	1.4MHz	QPSK	20175/1732.5	12.56
		16QAM	20175/1732.5	11.92
	3MHz	QPSK	20175/1732.5	9.20
		16QAM	20175/1732.5	10.74
	5MHz	QPSK	20175/1732.5	11.76
		16QAM	20175/1732.5	12.40
	10MHz	QPSK	20175/1732.5	10.29
		16QAM	20175/1732.5	11.25
	15MHz	QPSK	20175/1732.5	10.77
		16QAM	20175/1732.5	8.78

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	20MHz	QPSK	20175/1732.5	10.06
		16QAM	20175/1732.5	8.21

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band5	1.4MHz	QPSK	20525/836.5	10.87
		16QAM	20525/836.5	10.42
	3MHz	QPSK	20525/836.5	9.55
		16QAM	20525/836.5	10.10
	5MHz	QPSK	20525/836.5	9.52
		16QAM	20525/836.5	10.13
	10MHz	QPSK	20525/836.5	9.87
		16QAM	20525/836.5	10.16

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band12	1.4MHz	QPSK	23095/707.5	10.51
		16QAM	23095/707.5	11.51
	3MHz	QPSK	23095/707.5	9.84
		16QAM	23095/707.5	9.97
	5MHz	QPSK	23095/707.5	9.71
		16QAM	23095/707.5	10.58
	10MHz	QPSK	23095/707.5	9.90
		16QAM	23095/707.5	10.32

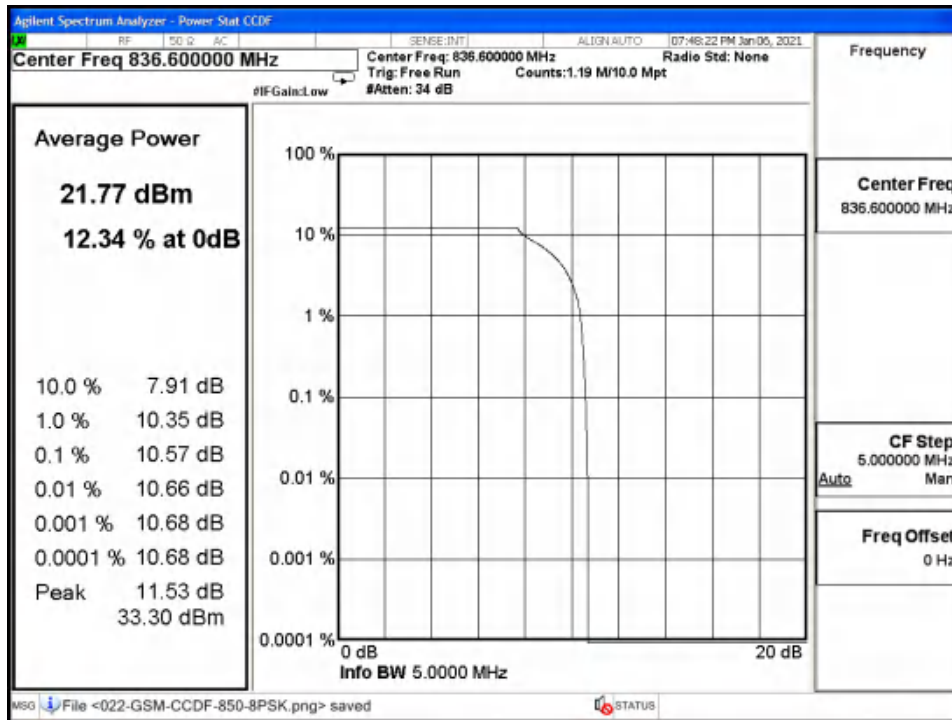
Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band13	5MHz	QPSK	23230/782.0	10.06
		16QAM	23230/782.0	10.45
	10MHz	QPSK	23230/782.0	10.54
		16QAM	23230/782.0	10.54

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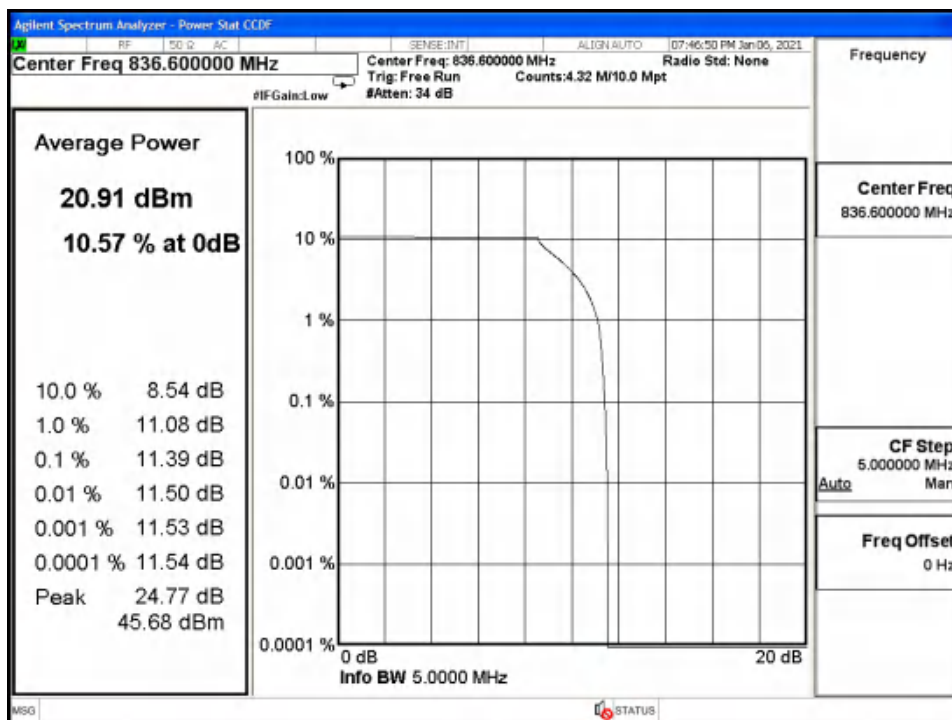
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Graphical for Peak to Average Ratio Results for GSM850:



836.6MHz-CH190-GMSK



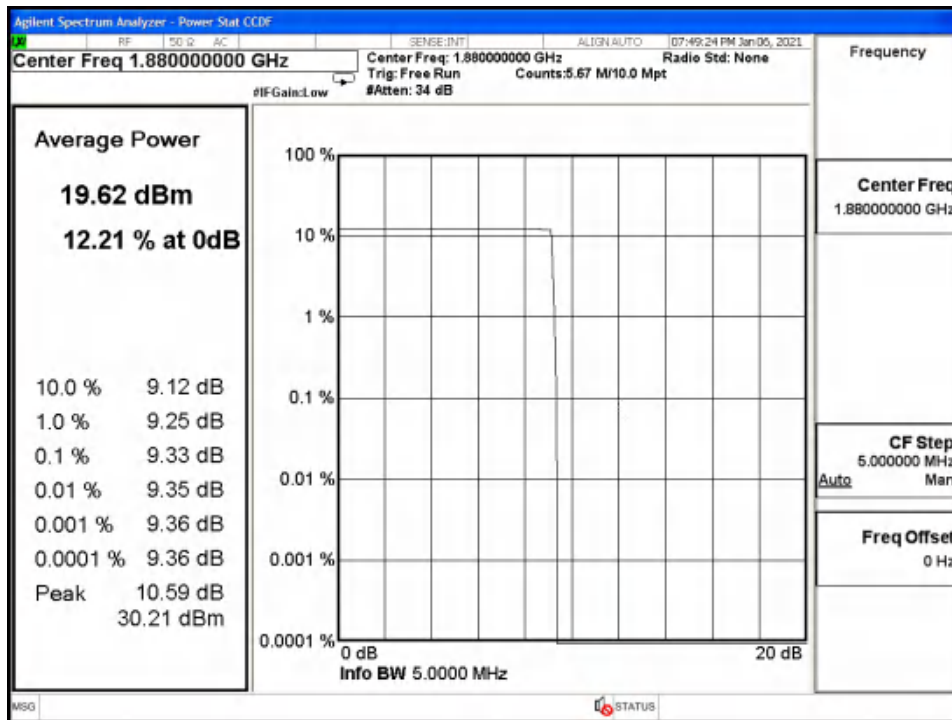
836.6MHz-CH190-8PSK

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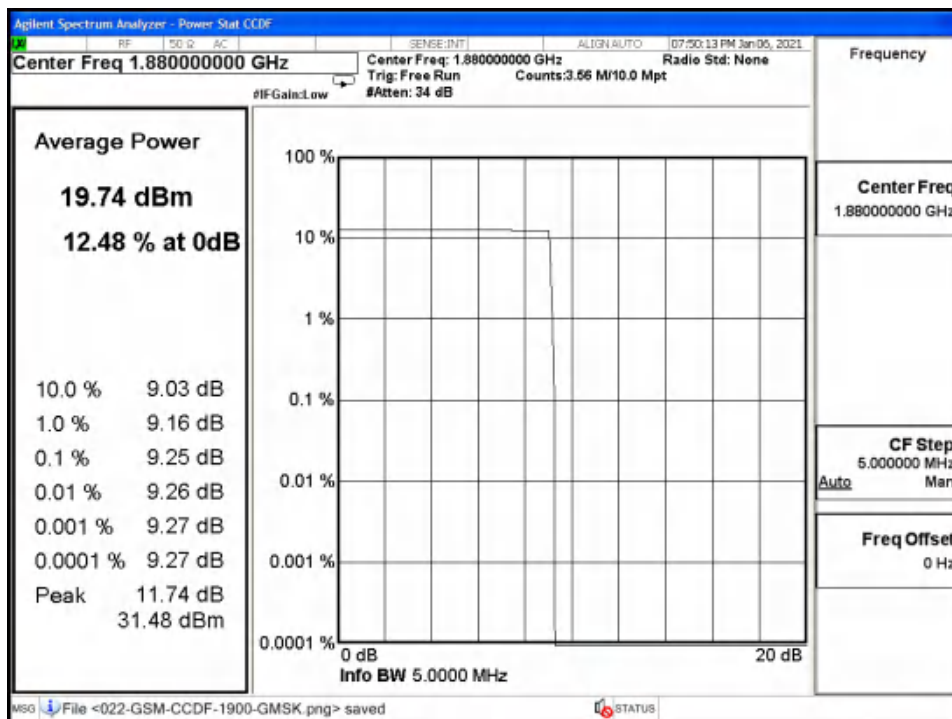
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Report No.: I21W00004-WWAN_Rev2

Graphical for Peak to Average Ratio Results for PCS1900:



1880MHz-CH661-GMSK



1880MHz-CH661-8PSK

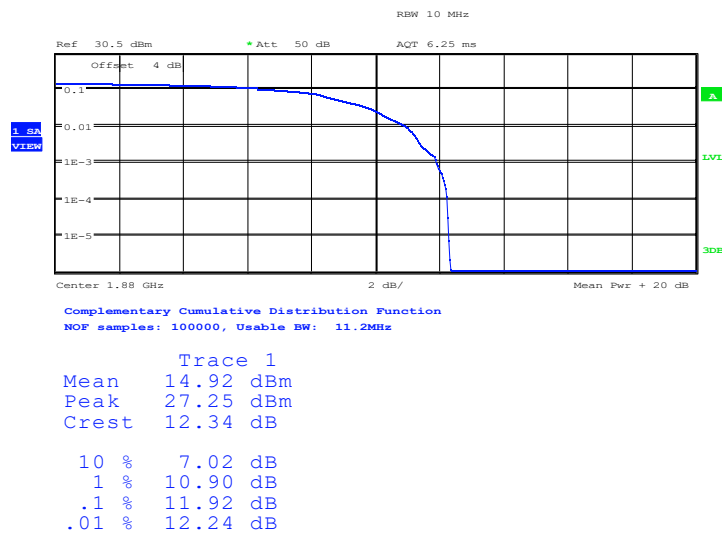
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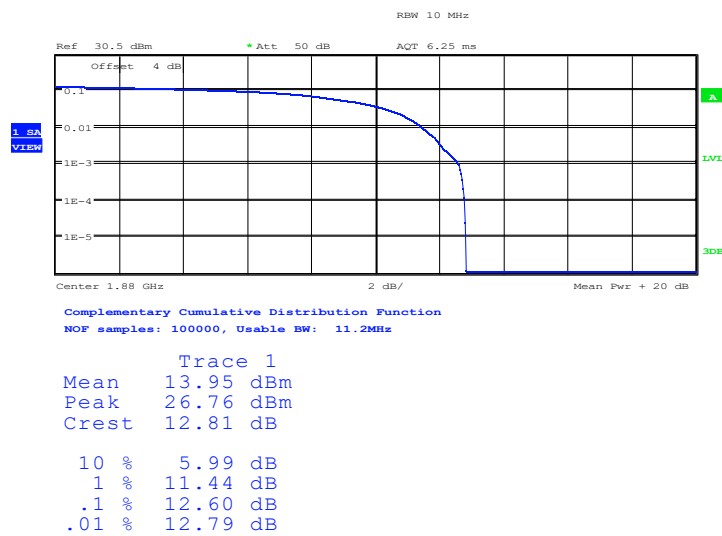
Report No.: I21W00004-WWAN_Rev2

Graphical for Peak to Average Ratio Results for CAT-M:



Date: 28.DEC.2020 05:20:11

Band2-CH18900-1880MHz-1.4MHz Bandwidth-QPSK



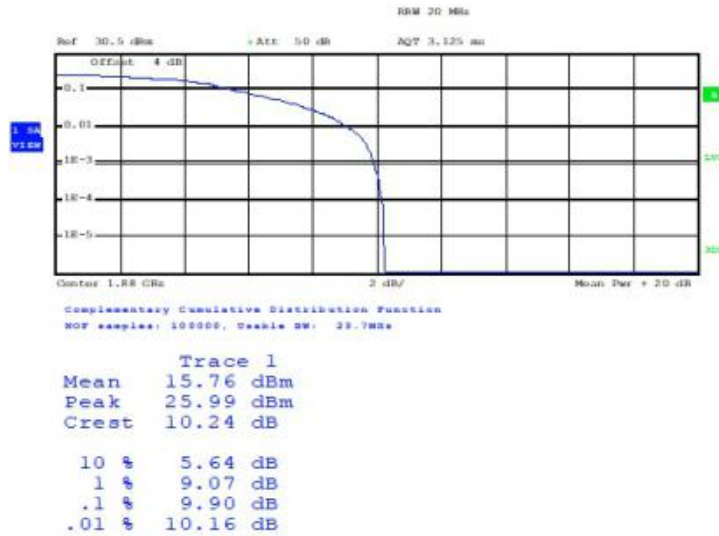
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Band2-CH18900-1880MHz-1.4MHz Bandwidth-16QAM

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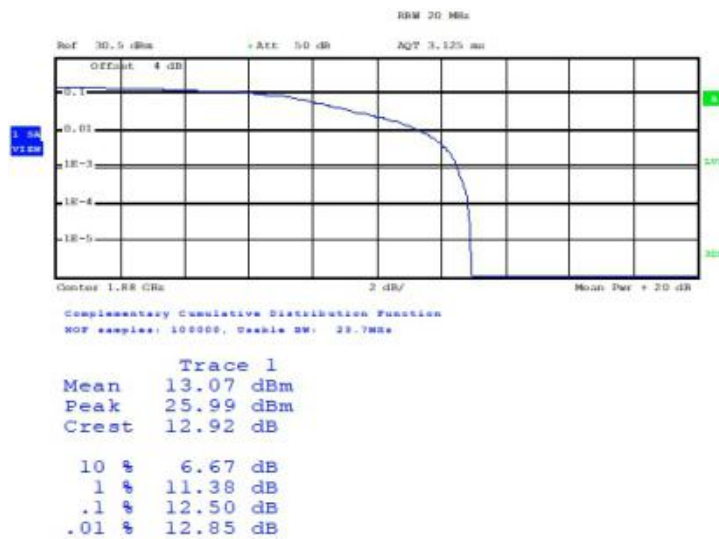
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Date: 28.DEC.2020 05:28:22

Band2-CH18900-1880MHz-3MHz Bandwidth-QPSK



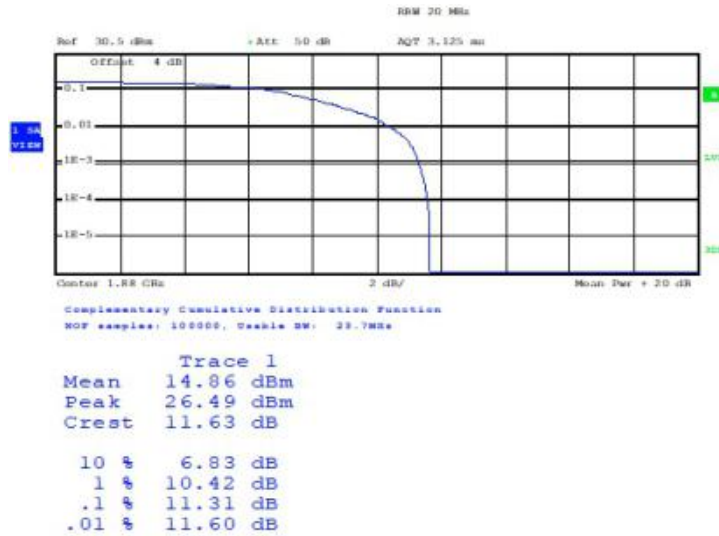
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Band2-CH18900-1880MHz-3MHz Bandwidth-16QAM

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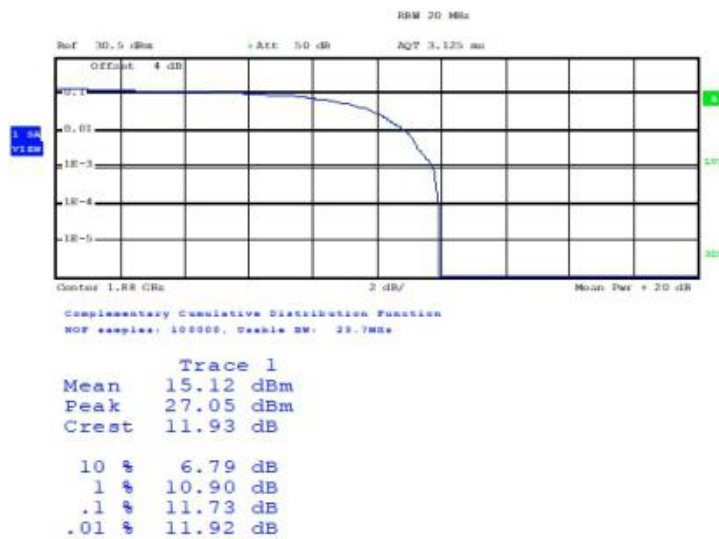
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Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 05:31:15

Band2-CH18900-1880MHz-5MHz Bandwidth-QPSK

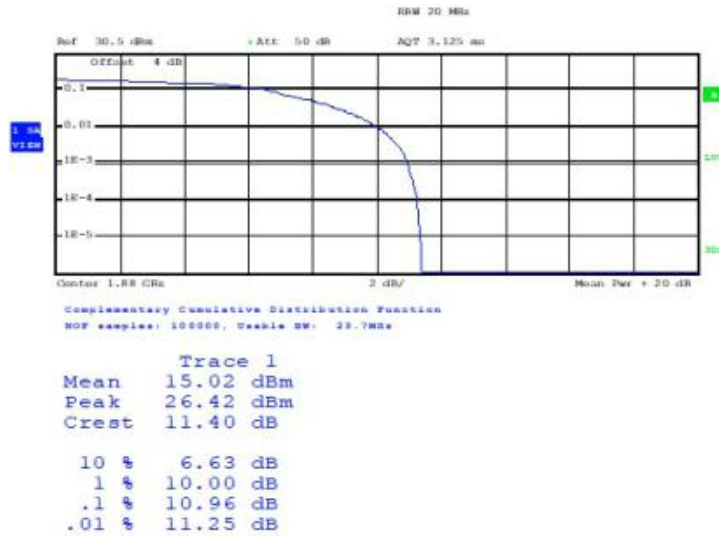


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Band2-CH18900-1880MHz-5MHz Bandwidth-16QAM

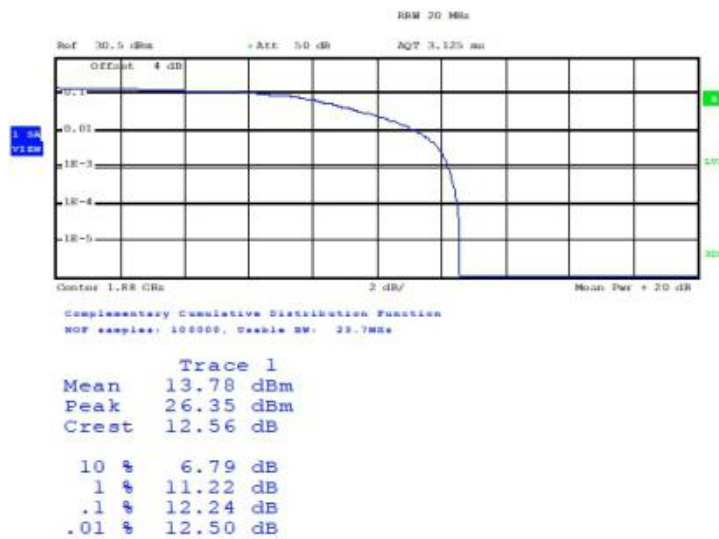


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 05:26:28

Band2-CH18900-1880MHz-10MHz Bandwidth-QPSK



Date: 28.DEC.2020 05:25:28

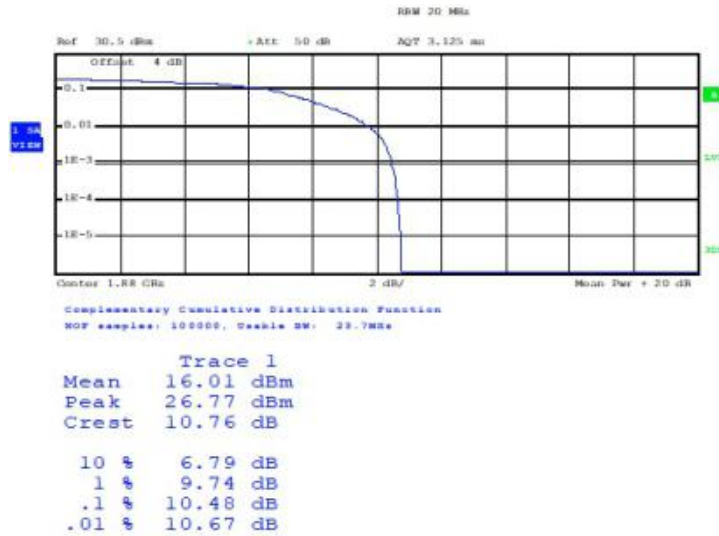
Band2-CH18900-1880MHz-10MHz Bandwidth-16QAM

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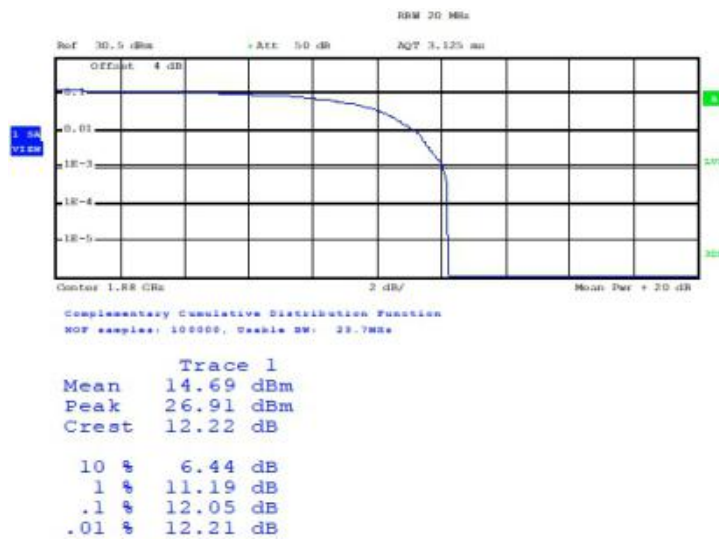


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Date: 28.DEC.2020 05:28:44

Band2-CH18900-1880MHz-15MHz Bandwidth-QPSK



Date: 28.DEC.2020 05:29:42

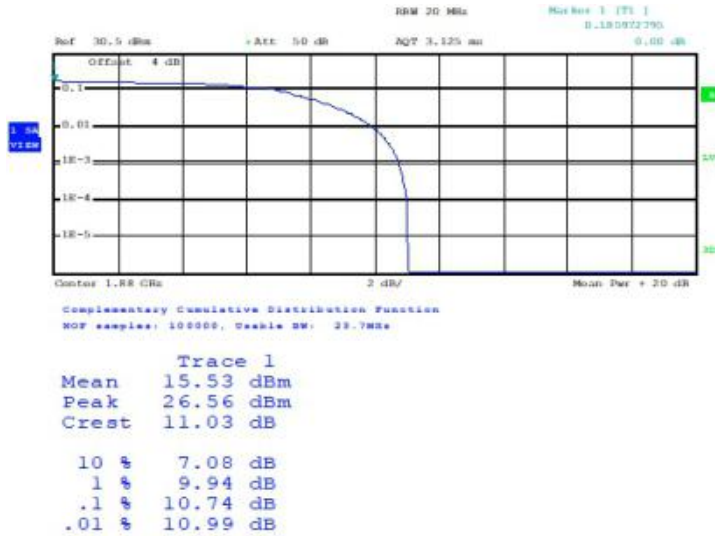
Band2-CH18900-1880MHz-15MHz Bandwidth-16QAM

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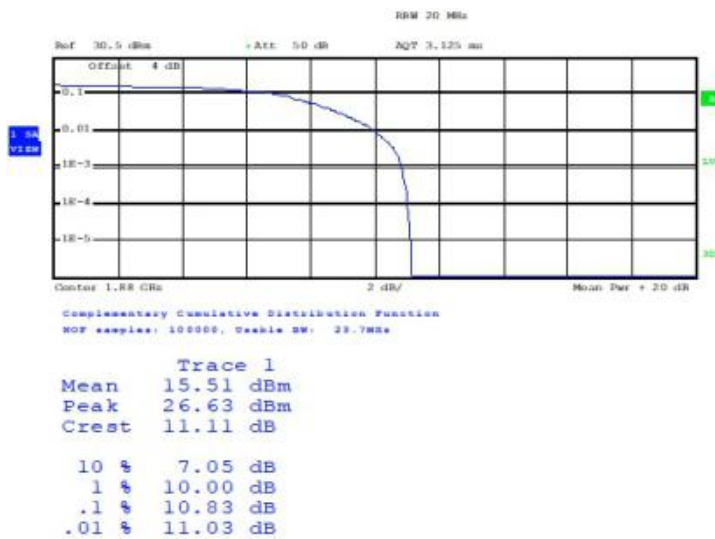


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 05:42:52

Band2-CH18900-1880MHz-20MHz Bandwidth-QPSK



Date: 28.DEC.2020 05:42:16

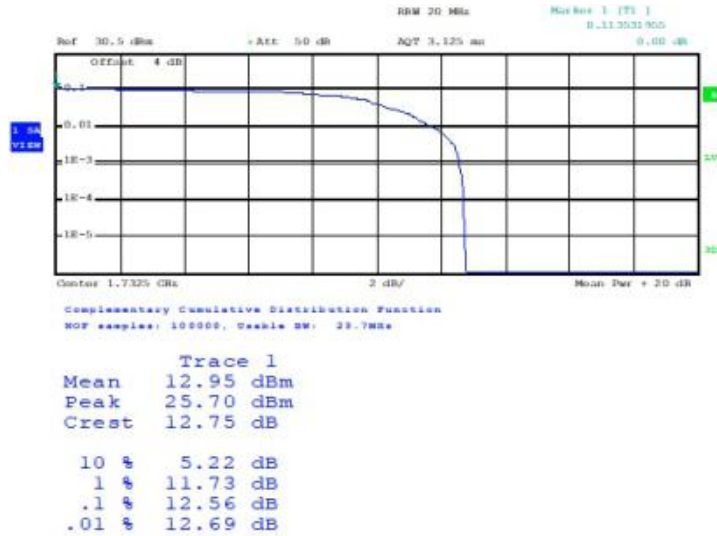
Band2-CH18900-1880MHz-20MHz Bandwidth-16QAM

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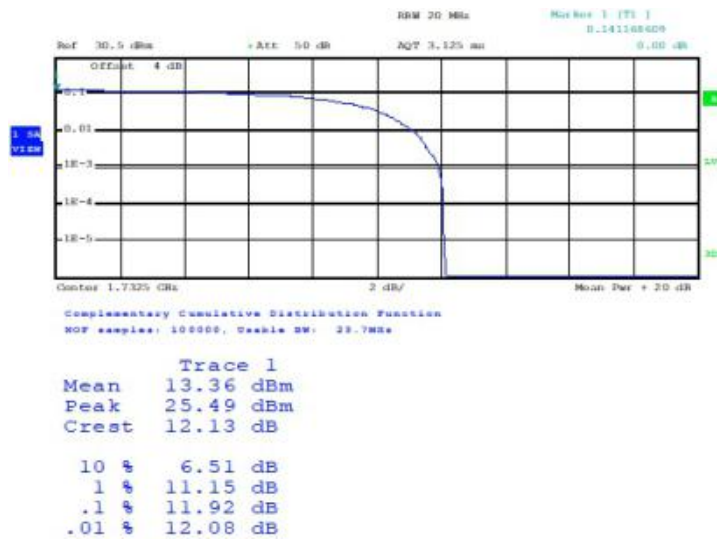


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 05:51:36

Band4-CH20175-707.5MHz -1.4MHz Bandwidth-QPSK



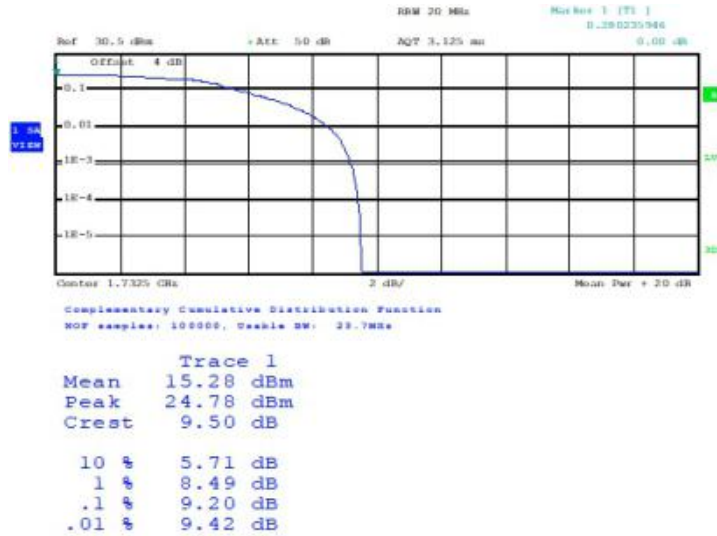
Date: 28.DEC.2020 05:52:33

Band4-CH20175-707.5MHz -1.4MHz Bandwidth-16QAM

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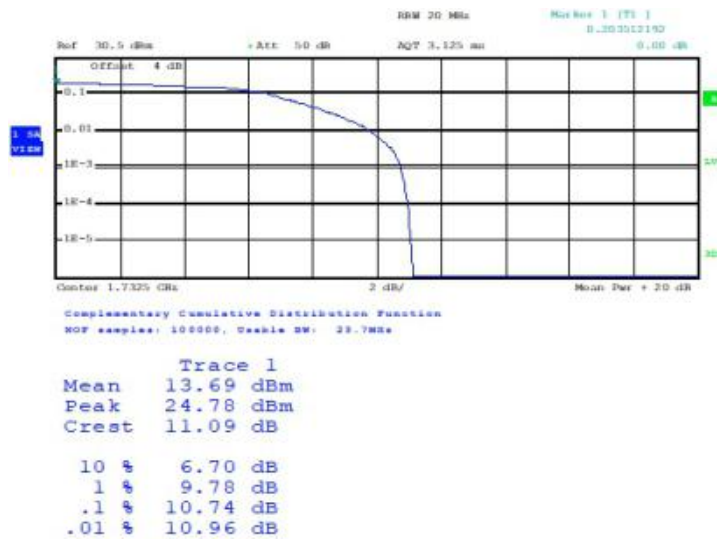
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Date: 28.DEC.2020 05:55:23

Band4-CH20175-707.5MHz -3MHz Bandwidth-QPSK



Date: 28.DEC.2020 05:54:40

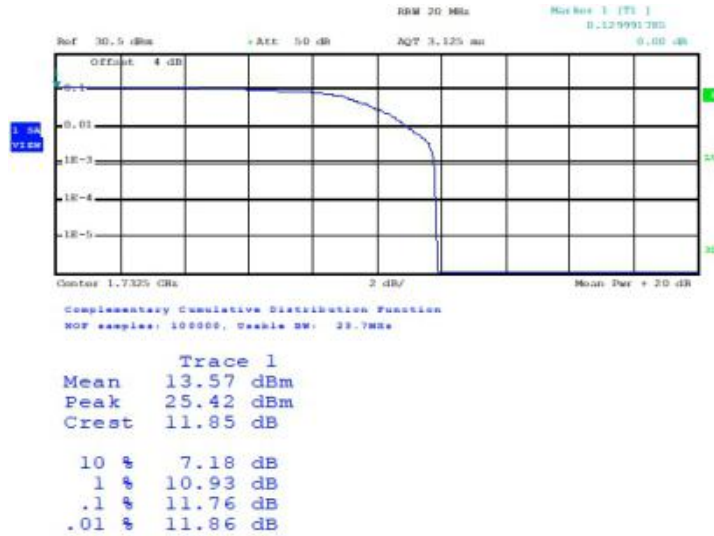
Band4-CH20175-707.5MHz -3MHz Bandwidth-16QAM

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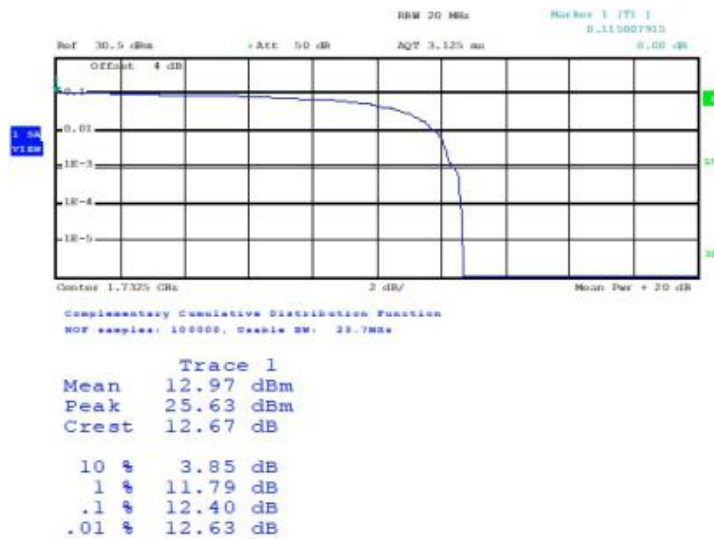


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 05:57:48

Band4-CH20175-707.5MHz -5MHz Bandwidth-QPSK



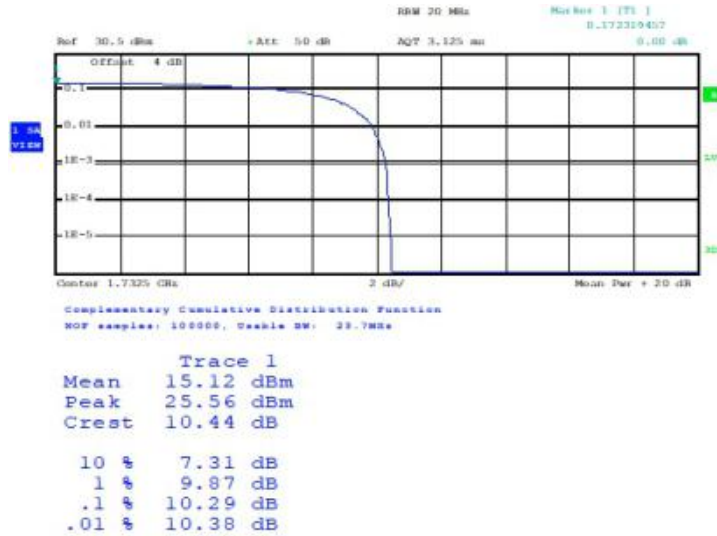
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Band4-CH20175-707.5MHz-5MHz Bandwidth-16QAM

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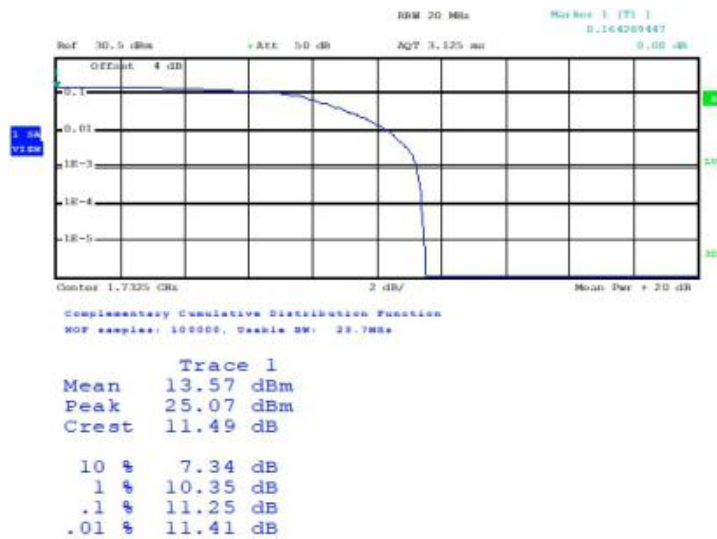
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Date: 28.DEC.2020 06:02:18

Band4-CH20175-707.5MHz-10MHz Bandwidth-QPSK



Date: 28.DEC.2020 06:01:08

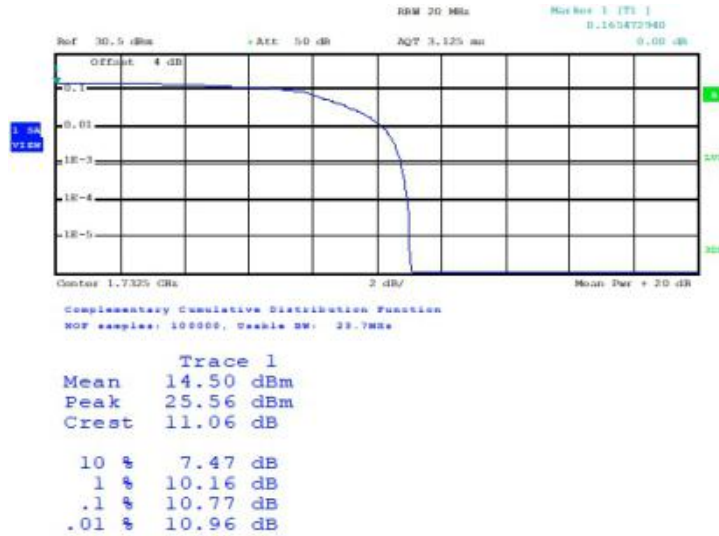
Band4-CH20175-707.5MHz-10MHz Bandwidth-16QAM

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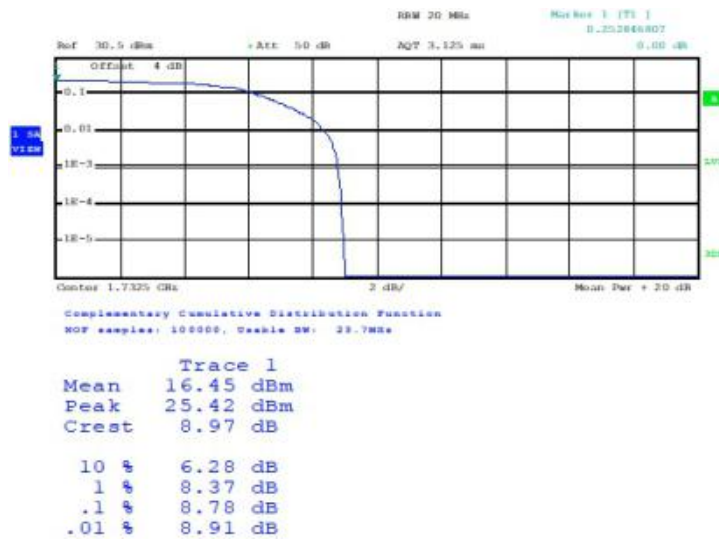


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 06:07:38

Band4-CH20175-707.5MHz -15MHz Bandwidth-QPSK



Date: 28.DEC.2020 06:06:55

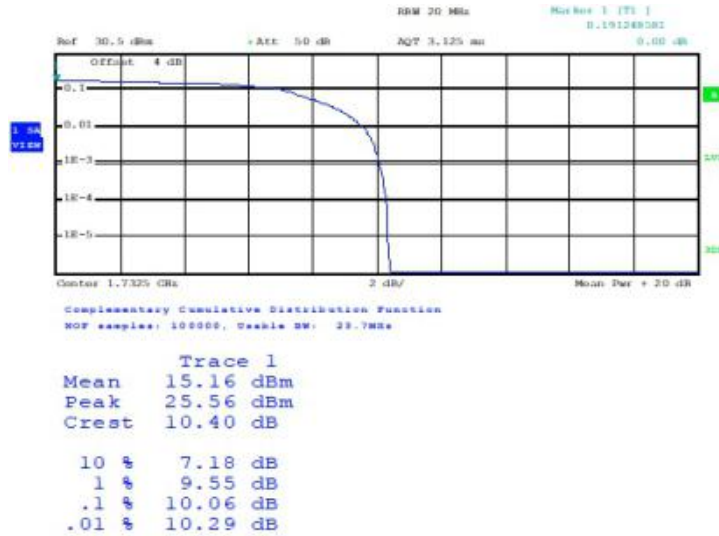
Band4-CH20175-707.5MHz-15MHz Bandwidth-16QAM

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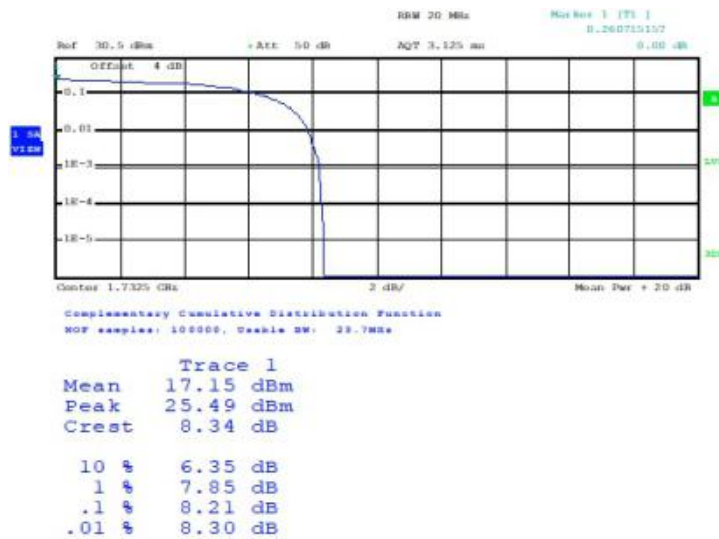


Report No.: I21W00004-WWAN_Rev2



Date: 28 DEC 2020 06:10:11

Band4-CH20175-707.5MHz-20MHz Bandwidth-QPSK



Date: 28 DEC 2020 06:10:55

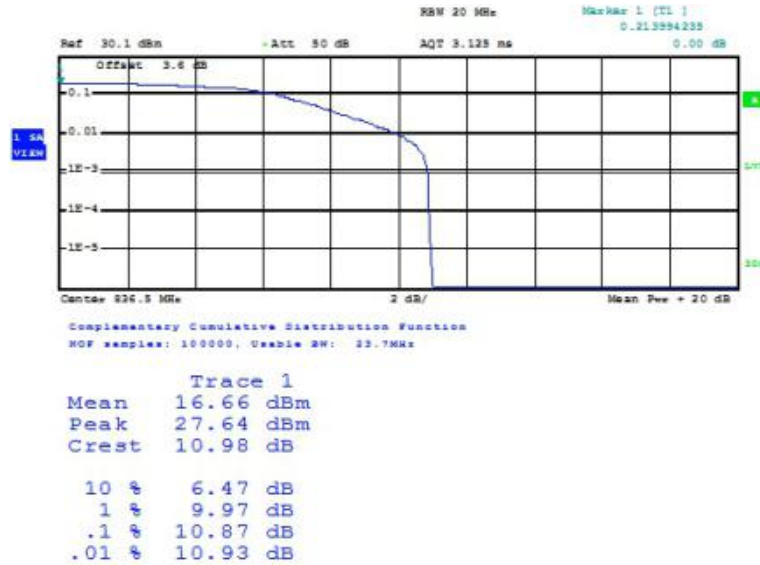
Band4-CH20175-707.5MHz-20MHz Bandwidth-16QAM

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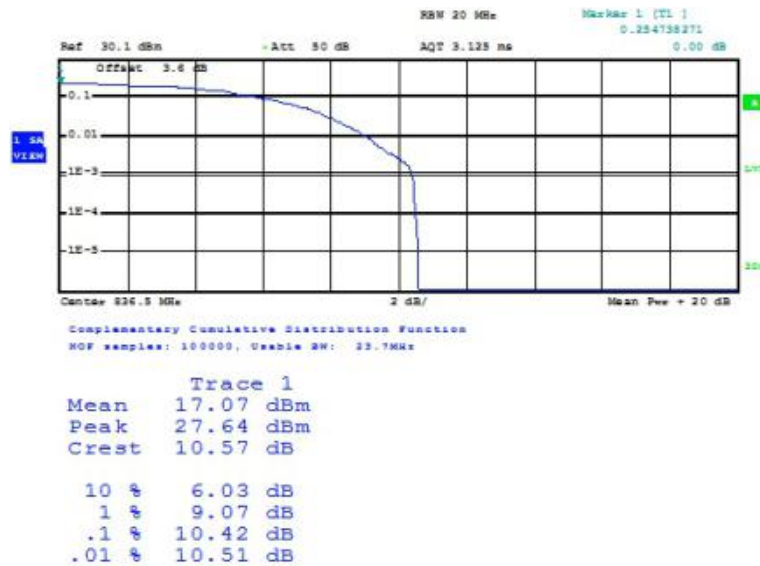


Report No.: I21W00004-WWAN_Rev2



Date: 26.DEC.2020 08:03:52

Band5-CH20525-836.5MHz-1.4MHz Bandwidth-QPSK



Date: 26.DEC.2020 08:04:44

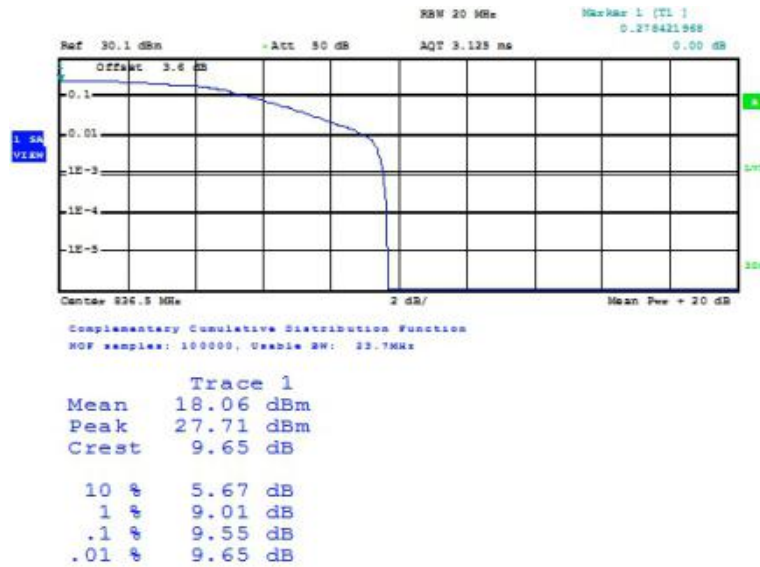
Band5-CH20525-836.5MHz-1.4MHz Bandwidth-16QAM

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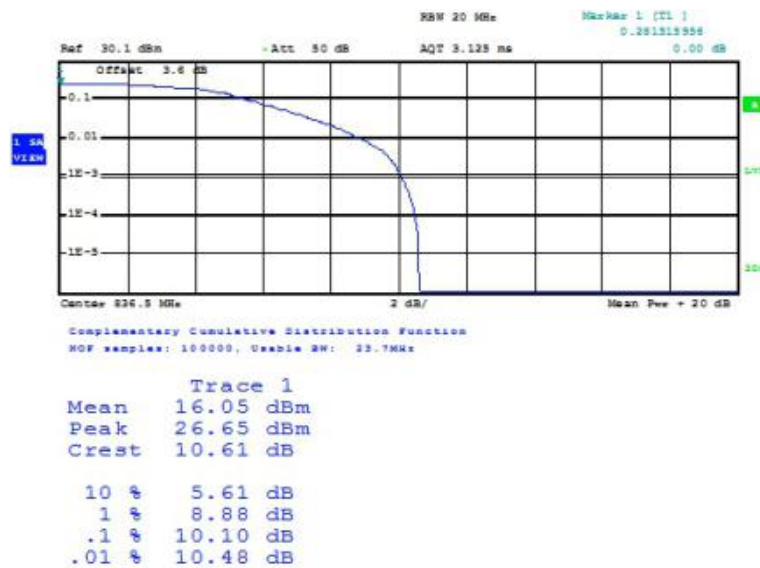


Report No.: I21W00004-WWAN_Rev2



Date: 26.DEC.2020 08:06:01

Band5-CH20525-836.5MHz-3MHz Bandwidth-QPSK



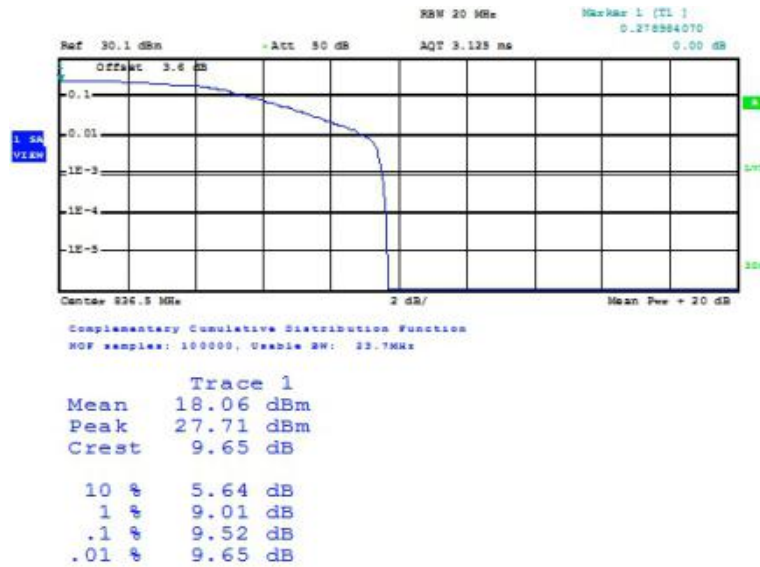
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Band5-CH20525-836.5MHz-3MHz Bandwidth-16QAM

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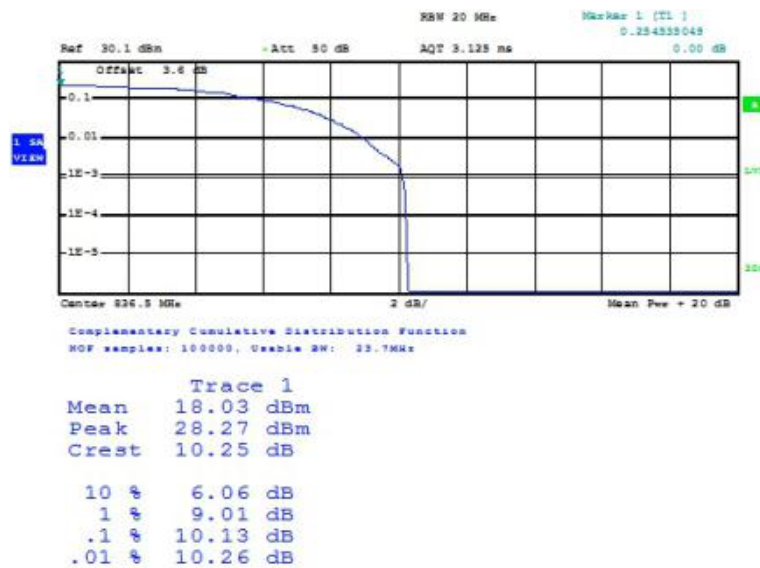
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Report No.: I21W00004-WWAN_Rev2



Date: 26.DEC.2020 08:14:42

Band5-CH20525-836.5MHz-5MHz Bandwidth-QPSK



Date: 26.DEC.2020 08:15:12

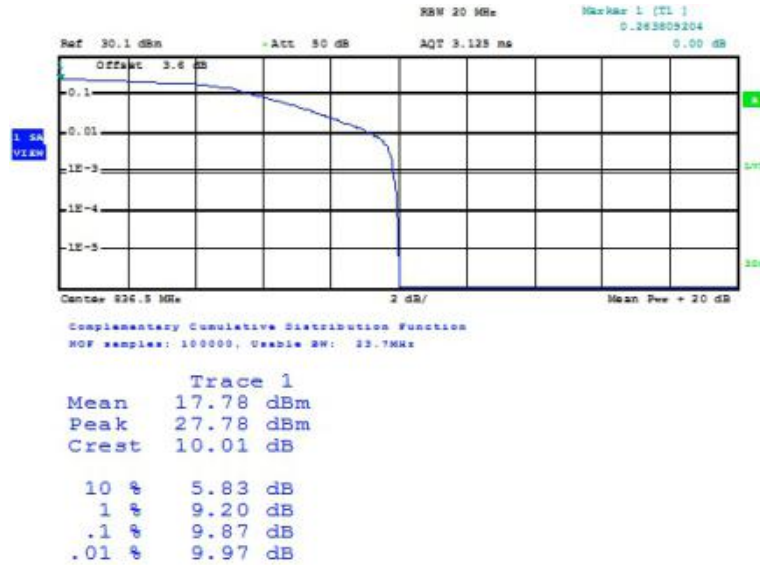
Band5-CH20525-836.5MHz-5MHz Bandwidth-16QAM

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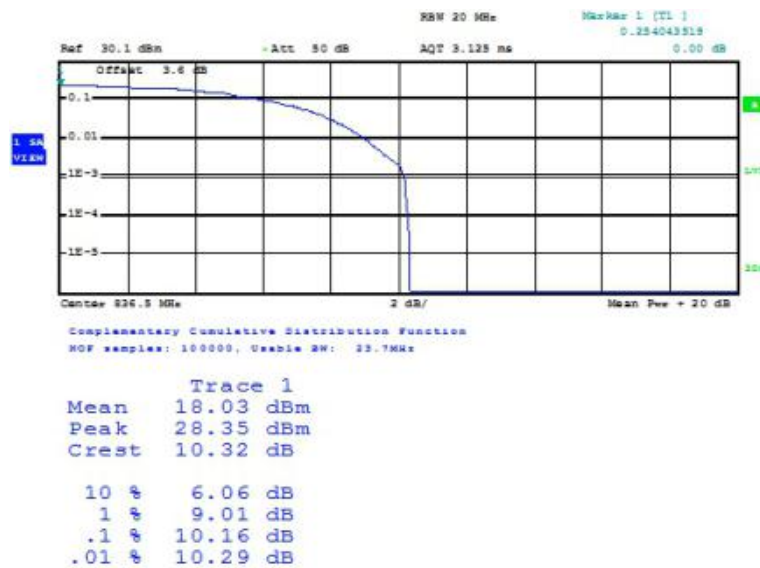


Report No.: I21W00004-WWAN_Rev2



Date: 26.DEC.2020 08:17:27

Band5-CH20525-836.5MHz-10MHz Bandwidth-QPSK



Date: 26.DEC.2020 08:17:59

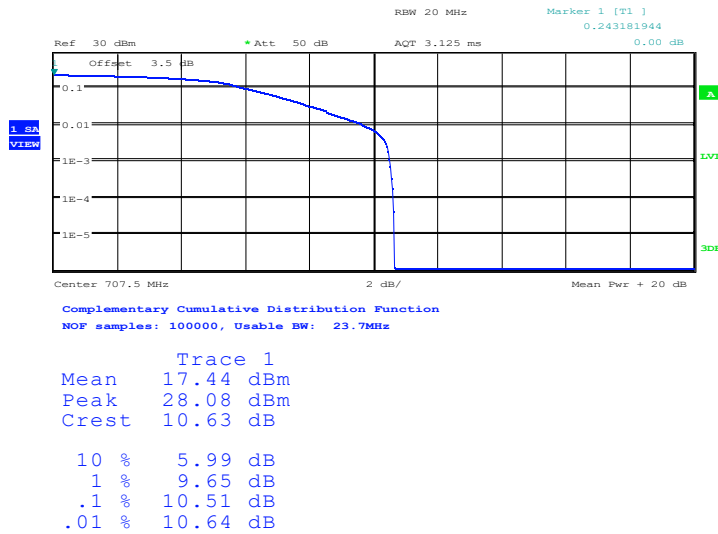
Band5-CH20525-836.5MHz-10MHz Bandwidth-16QAM

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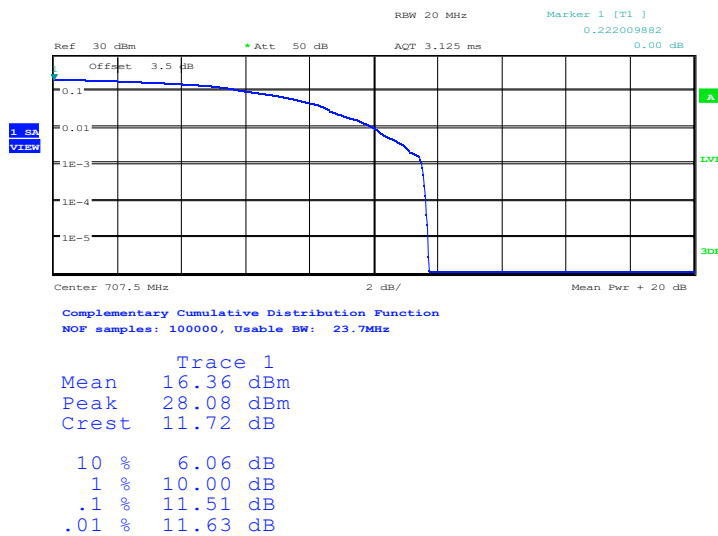


Report No.: I21W00004-WWAN_Rev2



Date: 28.DEC.2020 06:15:38

Band12-CH23095-707.5MHz-1.4MHz Bandwidth-QPSK



Date: 28.DEC.2020 06:16:09

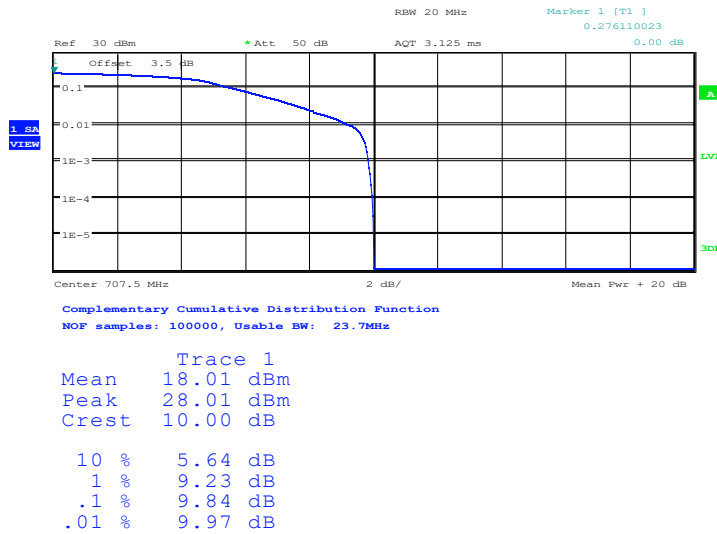
Band12-CH23095-707.5MHz-1.4MHz Bandwidth-16QAM

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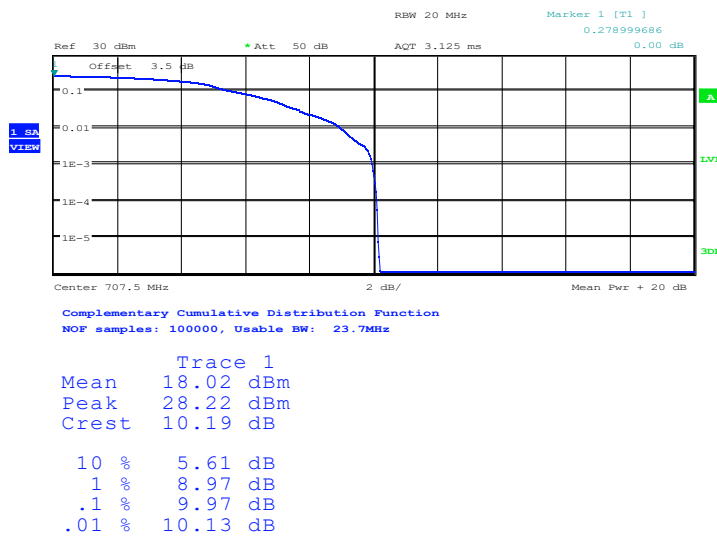


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Date: 28.DEC.2020 06:22:52

Band12-CH23095-707.5MHz-3MHz Bandwidth-QPSK



Date: 28.DEC.2020 06:22:17

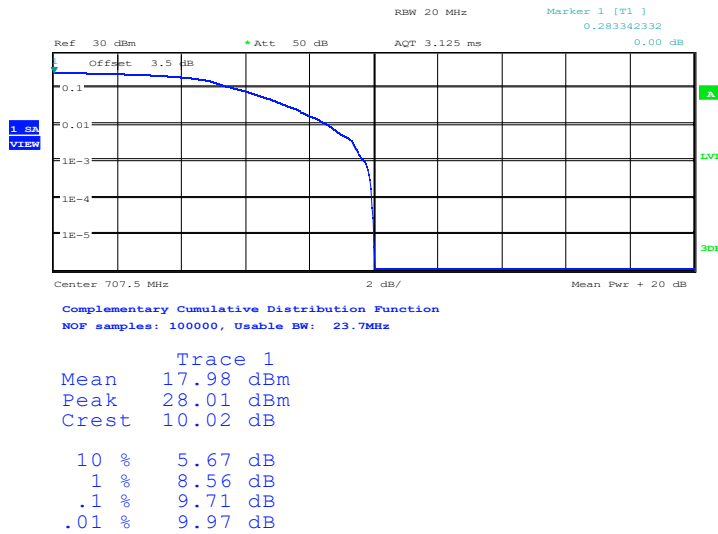
Band12-CH23095-707.5MHz-3MHz Bandwidth-16QAM

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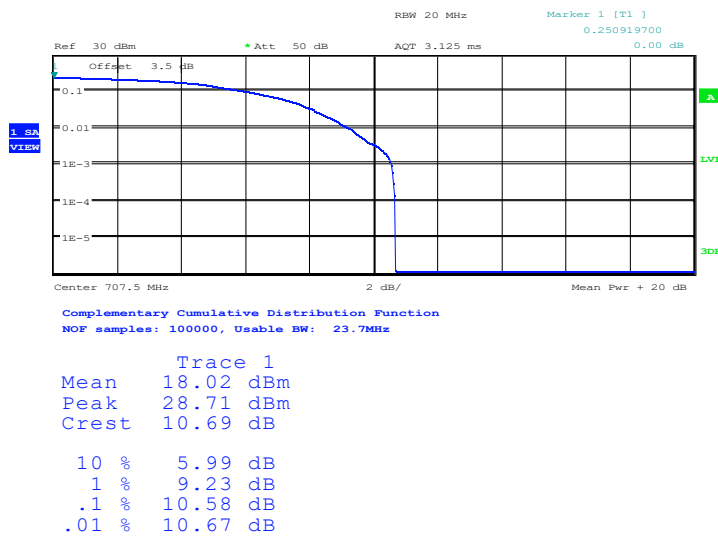


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Date: 28.DEC.2020 06:59:12

Band12-CH23095-707.5MHz-5MHz Bandwidth-QPSK



Date: 28.DEC.2020 06:59:57

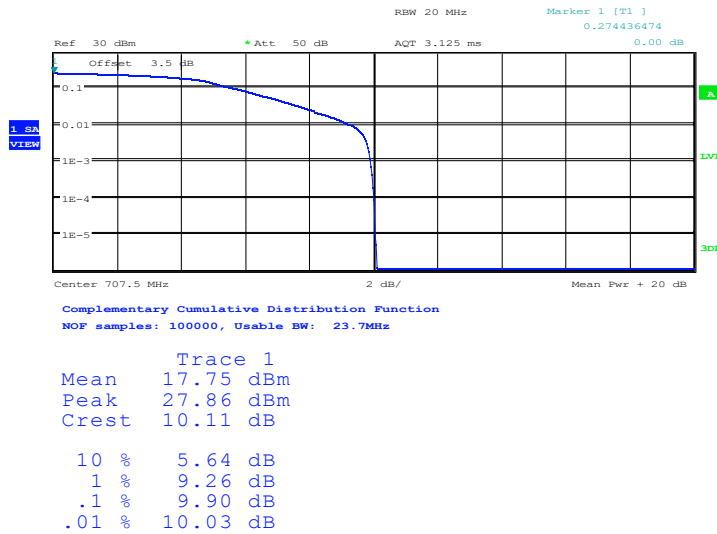
Band12-CH23095-707.5MHz-5MHz Bandwidth-16QAM

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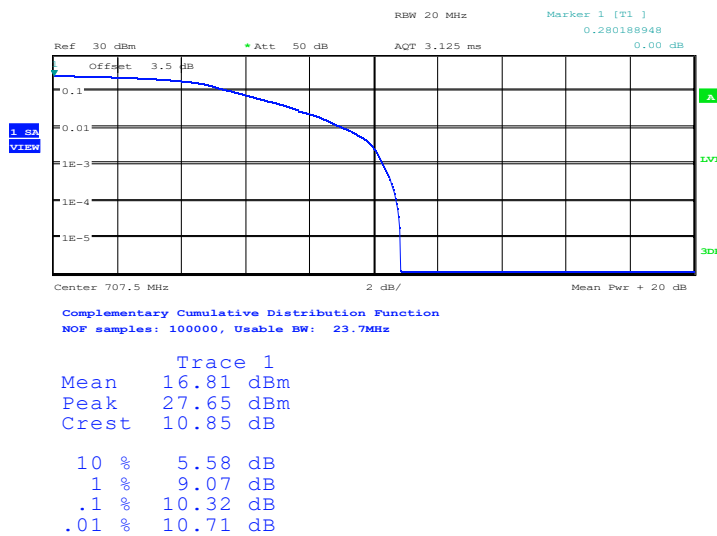


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Date: 28.DEC.2020 07:04:13

Band12-CH23095-707.5MHz-10MHz Bandwidth-QPSK



Date: 28.DEC.2020 07:03:03

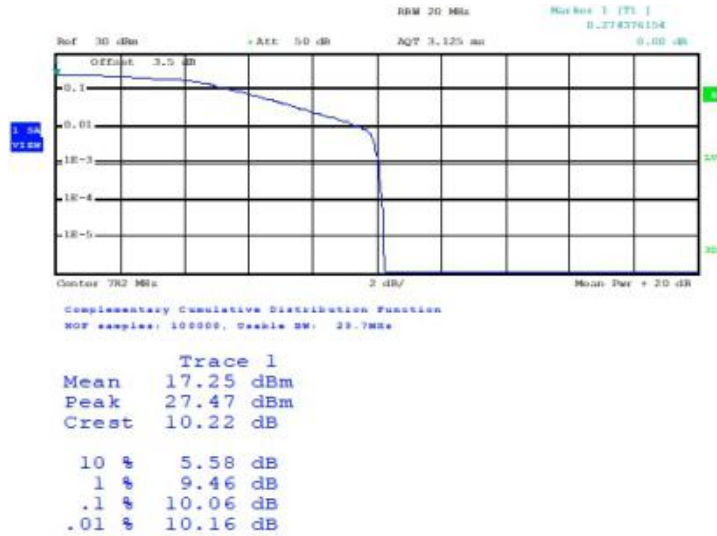
Band12-CH23095-707.5MHz-10MHz Bandwidth-16QAM

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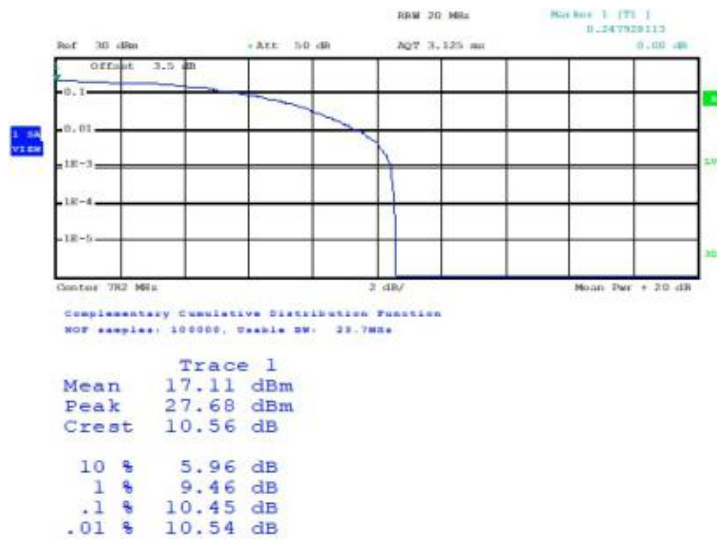


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Date: 28.DEC.2020 07:10:04

Band13-CH23230-782MHz-5MHz Bandwidth-QPSK



Date: 28.DEC.2020 07:10:52

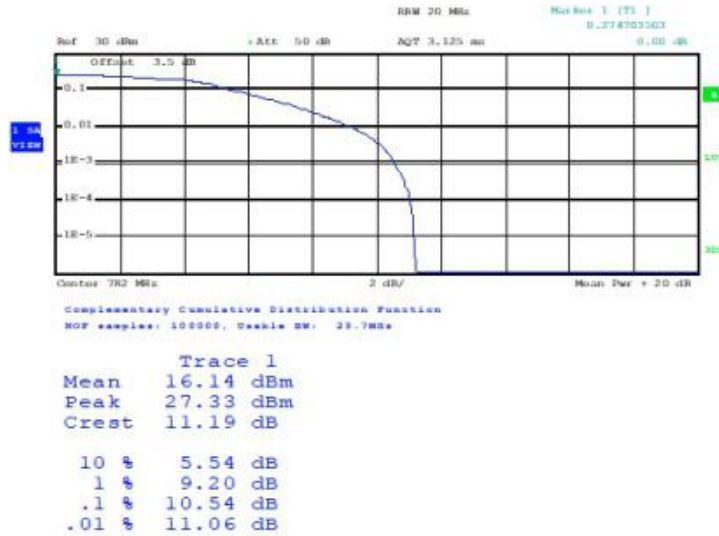
Band13-CH23230-782MHz-5MHz Bandwidth-16QAM

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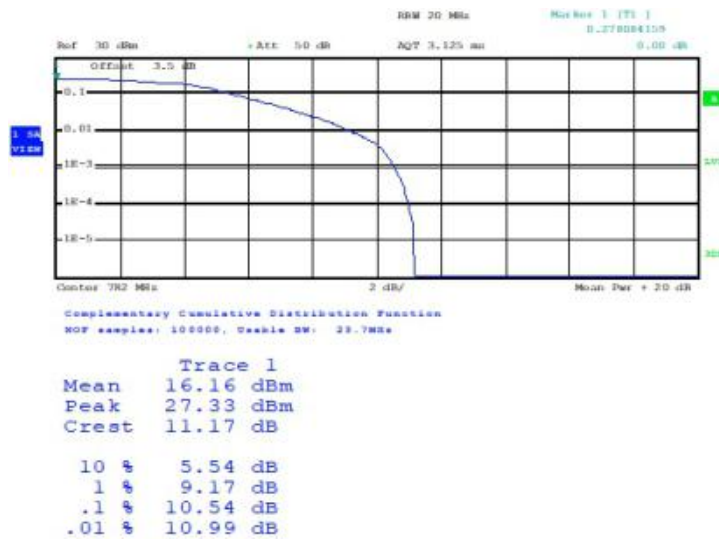


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Date: 28.DEC.2020 07:13:47

Band13-CH23230-782MHz-10MHz Bandwidth-QPSK



Date: 28.DEC.2020 07:13:09

Band13-CH23230-782MHz-10MHz Bandwidth-16QAM

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5.9 ERP and EIRP

Specifications:	FCC Part 2.1046, 22.913(a),24.232(c), 27.50,90.635(b)
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c), "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power"and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

According to 22.913(a), The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

According to Part 27.50(d), "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP."

According to Part 27.50(c),specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP."

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.52 dB (k=2)

Test Procedure:

ANSI C63.26:2015

KDB 971168 Section 5.6

$EIRP(dBm) = ERP(dBm) + 2.15(dB)$

$ERP/EIRP = P_{meas} + GT - LC$

where: ERP/ERP =effective or equivalent radiated power, respectively(expressed inthe same units as P_{meas}, typically dBw or dBm);

P_{meas}=measured transmitter output power or PSD, in dBm or dBw;

GT=gain of the transmitting antenna, in dBd(ERP)or dBi(EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna,in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body useconfiguration and the below tables contain the highest of all configurations averageconducted and ERP/ERP output powers as follows:

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**5.9.1 GSM850 Measurement result****GPRS GMSK Mode:**

Channel	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	31.69	31.55	31.74	30.02
190 (836.6MHz)	0.5	31.08	31.22	30.39	29.09
251 (848.8MHz)	0.5	30.26	30.84	30.64	30.64

EGPRS GMSK Mode

Channel	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	31.70	31.54	31.74	30.03
190 (836.6MHz)	0.5	31.08	31.22	30.40	29.08
251 (848.8MHz)	0.5	30.26	30.83	30.64	30.64



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EGPRS 8PSK Mode

Channel	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	28.00	26.90	26.60	26.20
190 (836.6MHz)	0.5	27.70	26.90	26.20	25.60
251 (848.8MHz)	0.5	27.50	26.60	25.70	25.40

GPRS GMSK Mode:

Channel No.	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	31.40	30.81	31.46	28.26
190 (836.6MHz)	0.5	30.92	30.68	29.14	28.33
251 (848.8MHz)	0.5	29.99	30.50	29.14	28.25

EGPRS GMSK Mode

Channel No.	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	31.42	30.81	31.47	28.26
190 (836.6MHz)	0.5	30.88	30.71	29.12	28.34
251 (848.8MHz)	0.5	29.98	30.51	29.13	28.23

EGPRS 8PSK Mode

Channel No.	Antenna Gain (dBi)	ERP Averavge (dBm)			
		1TS	2TS	3TS	4TS
128 (824.2MHz)	0.5	24.70	23.70	23.20	22.7
190 (836.6MHz)	0.5	24.30	23.30	22.60	22.3
251 (848.8MHz)	0.5	24.20	23.10	22.40	22.1

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5.9.2 PCS1900 Measurement result

GPRS GMSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	31.32	30.65	30.90	30.81
661 (1880.0MHz)	0.5	30.87	30.57	30.72	30.62
810 (1909.8MHz)	0.5	30.49	30.91	30.70	30.30

EGPRS GMSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	31.31	30.67	30.93	30.83
661 (1880.0MHz)	0.5	30.87	30.57	30.71	30.61
810 (1909.8MHz)	0.5	30.47	30.93	30.69	30.28

EGPRS 8PSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	29.70	29.90	29.70	29.60
661 (1880.0MHz)	0.5	29.40	29.20	29.30	29.10
810 (1909.8MHz)	0.5	29.10	28.80	28.84	28.80

GPRS GMSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	31.34	30.4	30.42	30.01
661 (1880.0MHz)	0.5	30.83	30.30	29.90	30.10
810 (1909.8MHz)	0.5	30.46	30.79	30.51	30.02

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EGPRS GMSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	31.37	30.40	30.40	30.00
661 (1880.0MHz)	0.5	30.81	30.31	29.87	30.10
810 (1909.8MHz)	0.5	30.45	30.79	30.50	30.01

EGPRS 8PSK Mode

Channel	Antenna Gain (dBi)	EIRP Averavge (dBm)			
		1TS	2TS	3TS	4TS
512 (1850.2MHz)	0.5	26.50	26.60	26.60	26.40
661 (1880.0MHz)	0.5	26.10	26.10	26.00	25.80
810 (1909.8MHz)	0.5	25.80	25.90	25.80	25.60

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5.9.3 CAT-M B2 Measurement result

Mode	Antenna Gain (dBi)	Bandwidth	Channel	RB	Index	EIRP Averagve (dBm)	
						QPSK	16QAM
Band2	0.5	1.4MHz	18607	1#0	0	24.93	23.29
				6#0	0	23.24	23.29
			18900	1#0	0	25.05	23.25
				6#0	0	23.28	23.26
			19195	1#5	0	24.61	23.27
				6#0	0	23.25	23.31
	0.5	3MHz	18615	1#0	0	25.01	23.26
				6#0	0	23.29	23.27
			18900	1#0	0	24.96	23.25
				6#0	0	23.28	23.25
			19185	1#5	1	24.86	23.26
				6#0	1	23.25	23.27
	0.5	5MHz	18620	1#0	0	25.02	24.11
				6#0	0	23.89	23.28
			18900	1#0	0	24.80	23.91
				6#0	0	23.63	23.29
			19180	1#5	3	24.73	23.69
				6#0	3	23.75	23.29

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	0.5	10MHz	18640	1#0	0	25.00	24.05
				4#0	0	23.86	24.20
			18900	1#0	0	24.85	23.83
				4#0	0	23.67	24.11
			19160	1#5	7	24.52	23.63
				4#2	7	24.66	23.36
	0.5	15MHz	18660	1#0	0	25.04	24.16
				6#0	0	24.81	25.24
			18900	1#0	0	24.71	23.87
				6#0	0	24.62	25.04
			19140	1#5	0	24.61	23.67
				6#0	0	24.66	24.97
	0.5	20MHz	18680	1#0	0	24.82	24.87
				6#0	0	24.71	23.94
			18900	1#0	0	24.65	25.05
				6#0	0	24.88	23.77
			19120	1#5	0	24.69	24.87
				6#0	0	24.91	23.84

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5.9.4 CAT-M B4 Measurement result

Mode	Antenna Gain (dBi)	Bandwidth	Channel	RB	Index	EIRP Averagve (dBm)	
						QPSK	16QAM
Band4	0.5	1.4MHz	19957	1#0	0	24.91	23.38
				6#0	0	23.27	23.29
			20175	1#0	0	25.08	23.25
				6#0	0	23.27	23.29
			20393	1#5	0	24.65	23.28
				6#0	0	23.30	23.29
	0.5	3MHz	19965	1#0	0	24.98	23.29
				6#0	0	23.25	23.32
			20175	1#0	0	24.82	23.24
				6#0	0	23.28	23.26
			20385	1#5	1	24.88	23.25
				6#0	1	23.28	23.29
	0.5	5MHz	19975	1#0	0	24.73	23.69
				6#0	0	23.75	23.39
			20175	1#0	0	24.81	23.98
				6#0	0	23.66	23.26
			20375	1#5	3	25.05	24.17
				6#0	3	23.85	23.27

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	0.5	10MHz	20000	1#0	0	24.82	24.87
				4#0	0	24.71	23.94
			20175	1#0	0	24.65	25.05
				4#0	0	24.88	23.77
			20350	1#5	7	24.52	23.63
				4#2	7	24.66	23.36
	0.5	15MHz	20025	1#0	0	25.04	24.16
				6#0	0	24.81	25.24
			20175	1#0	0	24.71	23.87
				6#0	0	24.62	25.04
			20325	1#5	0	24.61	23.67
				6#0	0	24.66	24.97
	0.5	20MHz	20050	1#0	0	24.85	23.83
				6#0	0	23.67	24.11
			20175	1#0	0	24.52	23.63
				6#0	0	24.66	23.36
			20300	1#5	0	24.71	24.91
				6#0	0	25.06	23.95

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5.9.5 CAT-M B5 Measurement result

Mode	Antenna Gain (dBi)	Bandwidth	Channel	RB	Index	ERP Averavge (dBm)	
						QPSK	16QAM
Band5	1.4MHz	1.4MHz	20407	1#0	0	24.87	23.15
				6#0	0	23.17	23.17
			20525	1#0	0	25.08	22.96
				6#0	0	23.21	23.19
			20643	1#5	0	24.65	23.18
				6#0	0	23.15	23.36
	3MHz	3MHz	20415	1#0	0	24.95	22.99
				6#0	0	23.13	23.12
			20525	1#0	0	24.83	22.98
				6#0	0	23.13	23.01
			20635	1#5	1	24.95	22.87
				6#0	1	23.25	22.91
	5MHz	5MHz	20425	1#0	0	24.95	24.09
				6#0	0	23.75	23.08
			20525	1#0	0	24.83	23.65
				6#0	0	23.67	23.02
			20625	1#5	3	24.6	23.55
				6#0	3	23.86	22.98
	10MHz	10MHz	20450	1#0	0	25.09	23.81
				4#0	0	24.63	23.94
			20525	1#0	0	24.89	23.75
				4#0	0	23.77	23.93
			20600	1#5	7	24.62	23.76
				4#2	7	24.73	23.42

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5.9.6 CAT-M B12 Measurement result

Mode	Antenna Gain (dBi)	Bandwidth	Channel	RB	Index	ERP Averavge (dBm)	
						QPSK	16QAM
Band12	0.5	1.4MHz	20315	1#0	0	24.95	23.21
				6#0	0	23.12	23.27
			23095	1#0	0	25.07	23.05
				6#0	0	23.22	23.19
			23175	1#5	0	24.65	23.28
				6#0	0	23.08	23.35
	0.5	3MHz	20320	1#0	0	25.02	24.11
				6#0	0	23.89	23.18
			23095	1#0	0	24.80	23.91
				6#0	0	23.65	22.91
			23170	1#5	1	24.75	23.71
				6#0	1	23.75	22.89
	0.5	5MHz	20330	1#0	0	25.01	23.14
				6#0	0	23.09	23.27
			23095	1#0	0	24.97	23.03
				6#0	0	23.21	23.05
			23160	1#5	3	24.86	22.76
				6#0	3	23.15	22.97
	0.5	10MHz	20345	1#0	0	25.00	24.05
				4#0	0	23.86	24.20
			23095	1#0	0	24.85	23.83
				4#0	0	23.67	24.11
			23145	1#5	7	24.58	23.74
				4#2	7	24.72	23.21

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5.9.7 CAT-M B13 Measurement result

Mode	Antenna Gain (dBi)	Bandwidth	Channel	RB	Index	ERP Averagve (dBm)	
						QPSK	16QAM
Band13	0.5	5MHz	23200	1#0	0	25.62	24.41
				6#0	0	24.27	23.51
			23230	1#0	0	25.57	24.24
				6#0	3	24.20	23.45
			23254	1#5	3	25.52	24.29
				6#0	3	24.14	23.39
	0.5	10MHz	23225	1#0	0	25.69	24.49
				6#0	0	24.30	24.62
			23230	1#0	0	25.69	24.49
				6#0	0	24.30	24.62
			23235	1#5	7	24.63	24.55
				4#2	7	24.77	24.61

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Annex A EUT Photos

See the document "AT Pro NG-External Photos".

See the document "AT Pro NG-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End Of Report*****

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