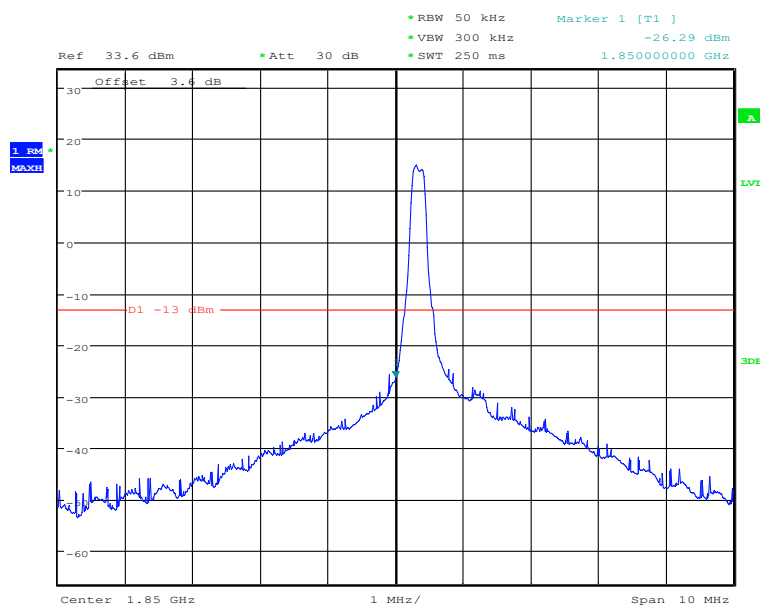
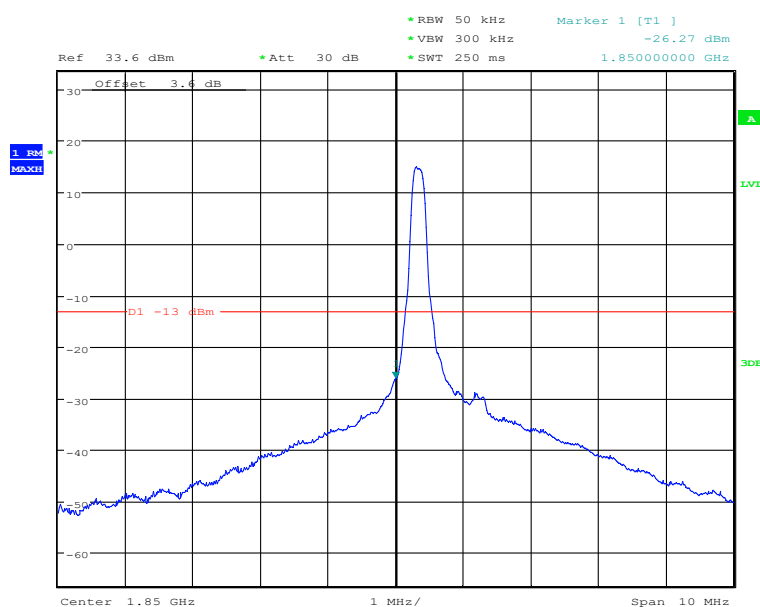


Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 17:22:37

Band2-Low Channel-5MHz Bandwidth-16QAM



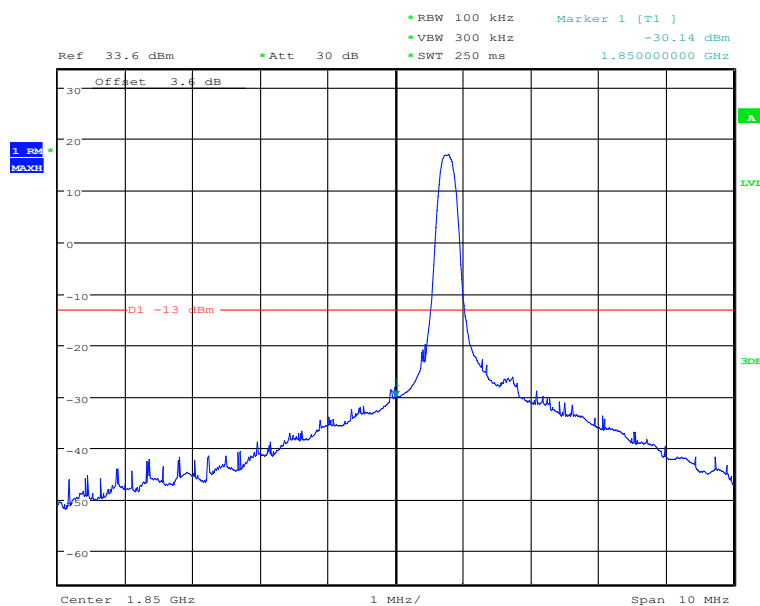
Date: 2.SEP.2020 17:21:12

Band2-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

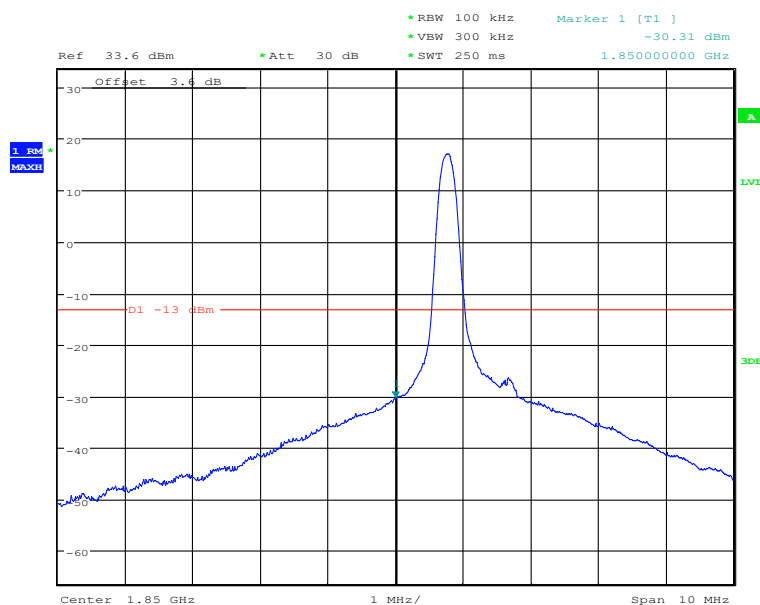
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 17:39:44

Band2-Low Channel-10MHz Bandwidth-16QAM



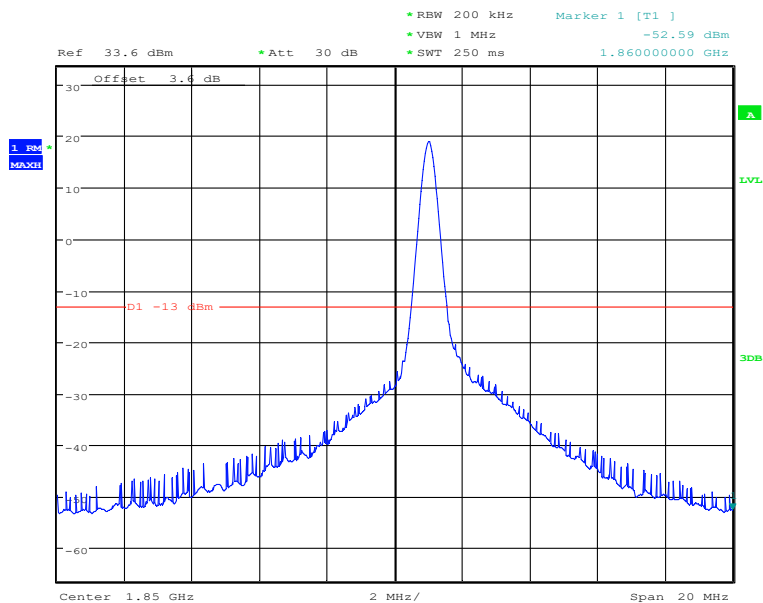
Date: 2.SEP.2020 17:38:40

Band2-Low Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

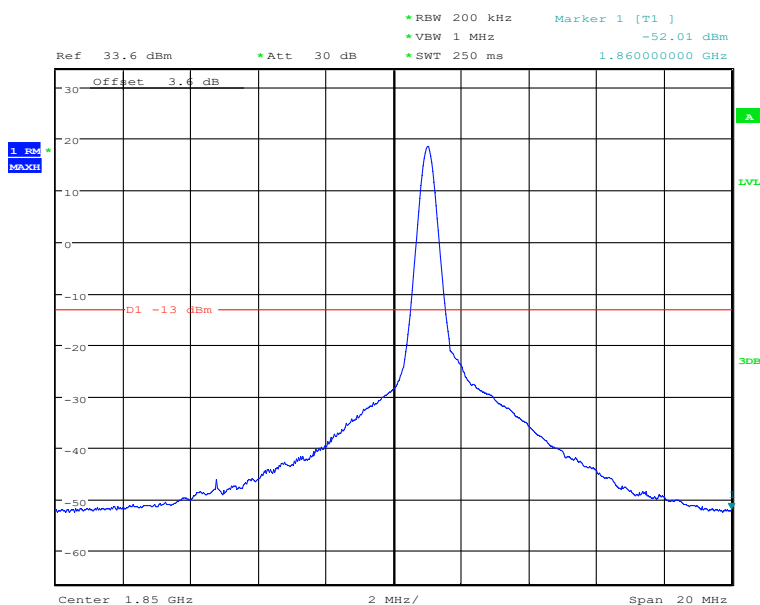
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 18:00:06

Band2-Low Channel-15MHz Bandwidth-16QAM



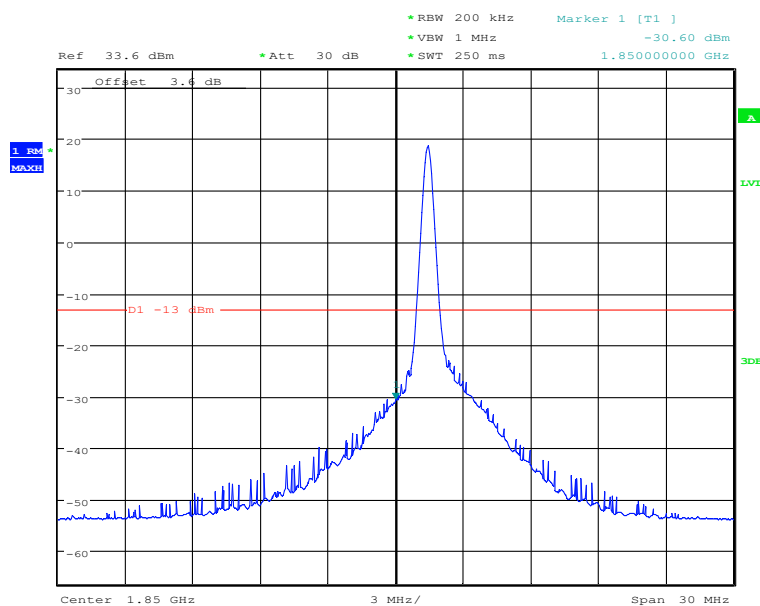
Date: 2.SEP.2020 17:57:09

Band2-Low Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

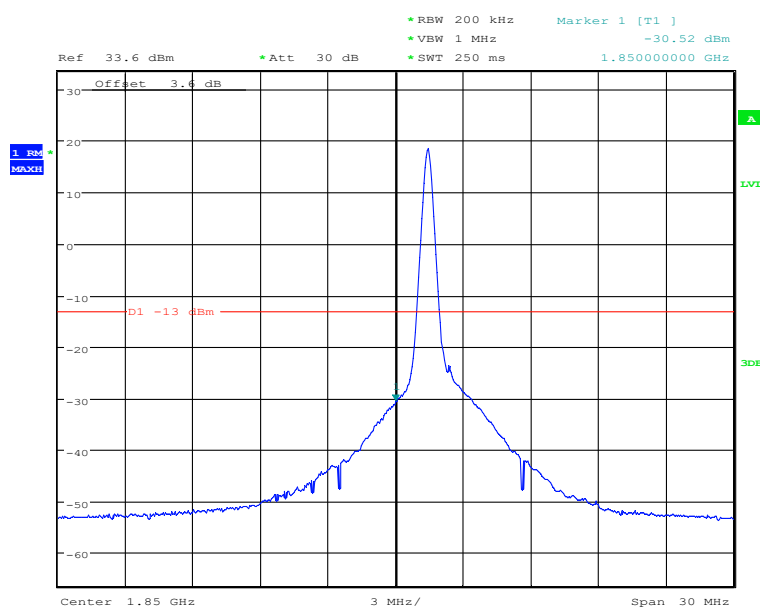
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 18:20:35

Band2-Low Channel-20MHz Bandwidth-16QAM



Date: 2.SEP.2020 18:19:13

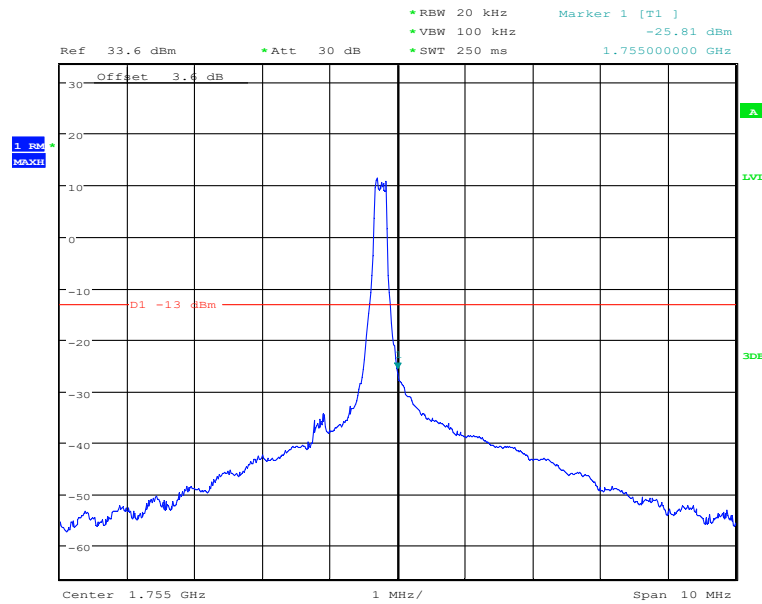
Band2-Low Channel-20MHz Bandwidth-QPSK

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

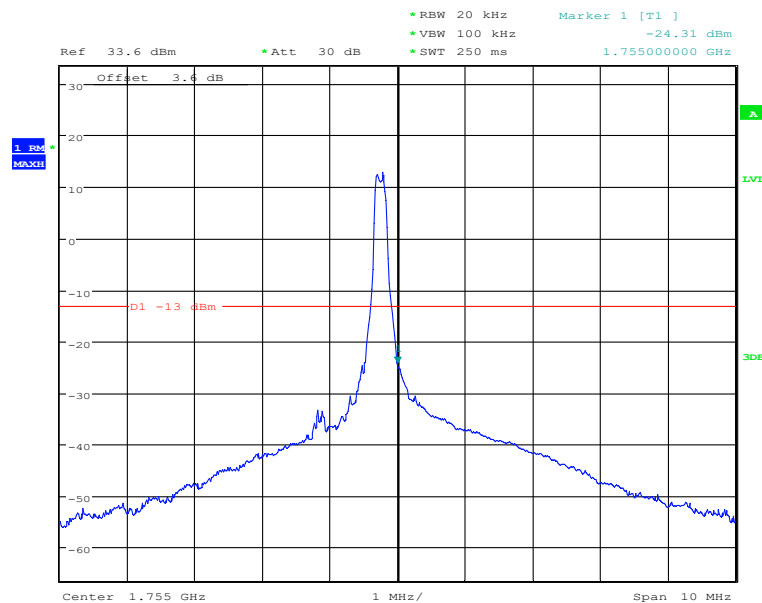
Report No.: I20W00014-WWAN_Rev2

5.6.9 CAT-M Band4 Edge Results



Date: 2.SEP.2020 18:44:53

Band4-High Channel-1.4MHz Bandwidth-16QAM



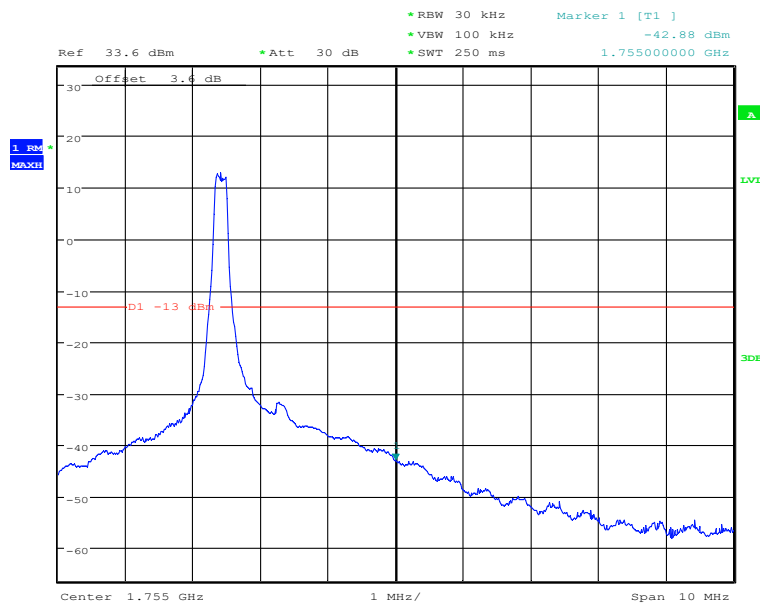
Date: 2.SEP.2020 18:46:07

Band4-High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

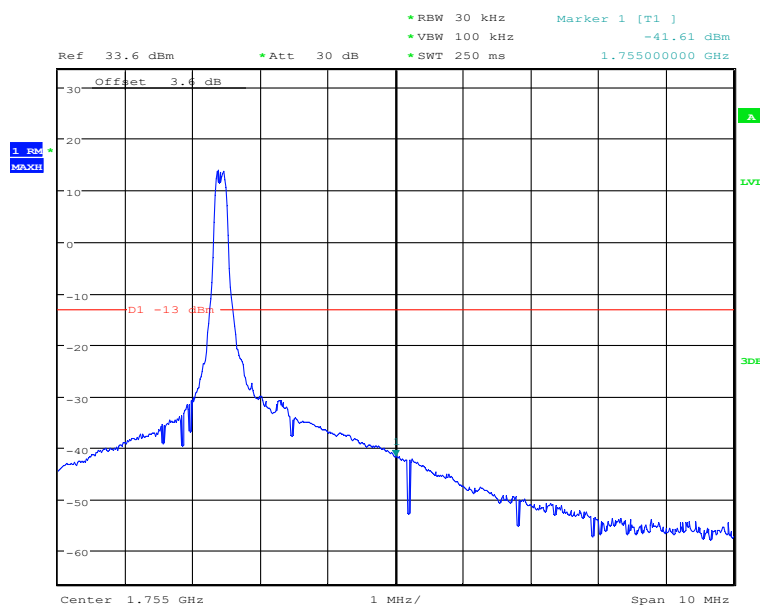
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 19:05:20

Band4-High Channel-3MHz Bandwidth-16QAM



Date: 2.SEP.2020 19:03:42

Band4-High Channel-3MHz Bandwidth-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



Ref 33.6 dBm * Att 30 dB * RBW 50 kHz * VBW 300 kHz * SWT 250 ms

Marker 1 [T1] -47.05 dBm 1.755000000 GHz

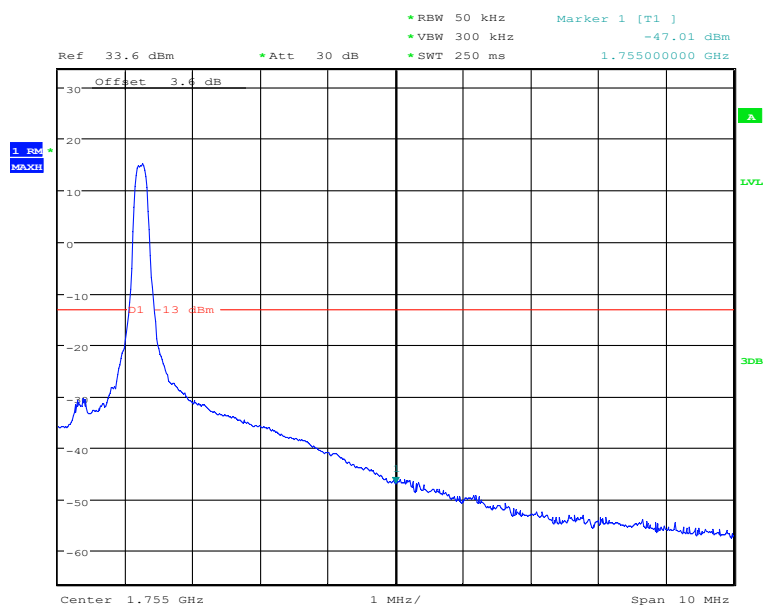
Offset 3.6 dB

1.755 GHz

D1 -13 dBm

Center 1.755 GHz 1 MHz/ Span 10 MHz

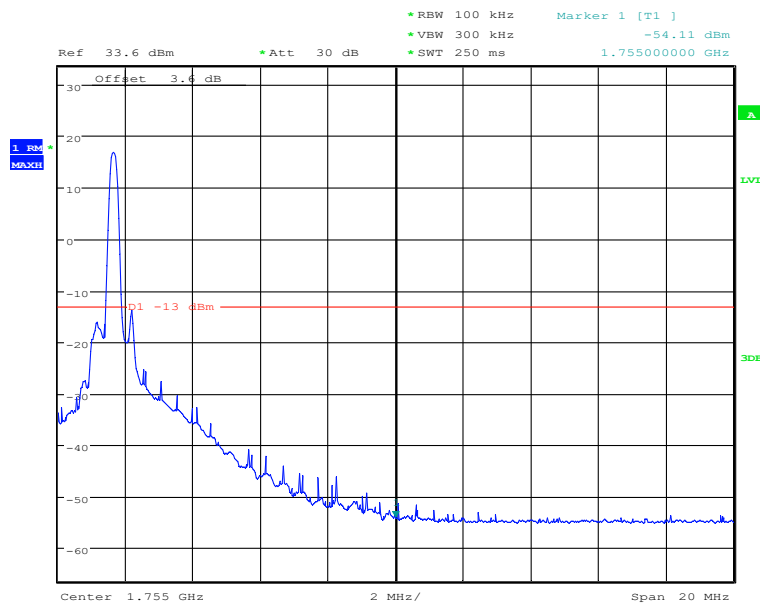
Band4-High Channel-5MHz Bandwidth-16QAM



Band4-High Channel-5MHz Bandwidth-QPSK

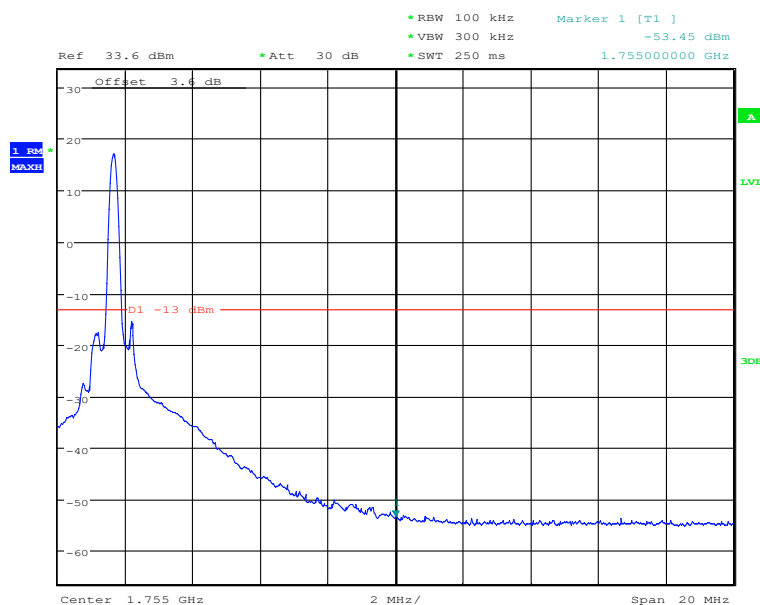
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:44:24

Band4-High Channel-10MHz Bandwidth-16QAM



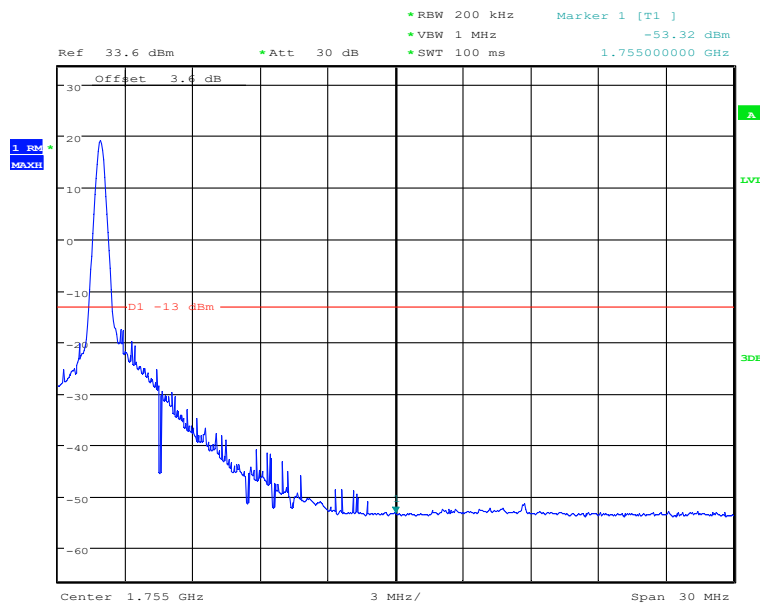
Date: 2.SEP.2020 23:45:09

Band4-High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

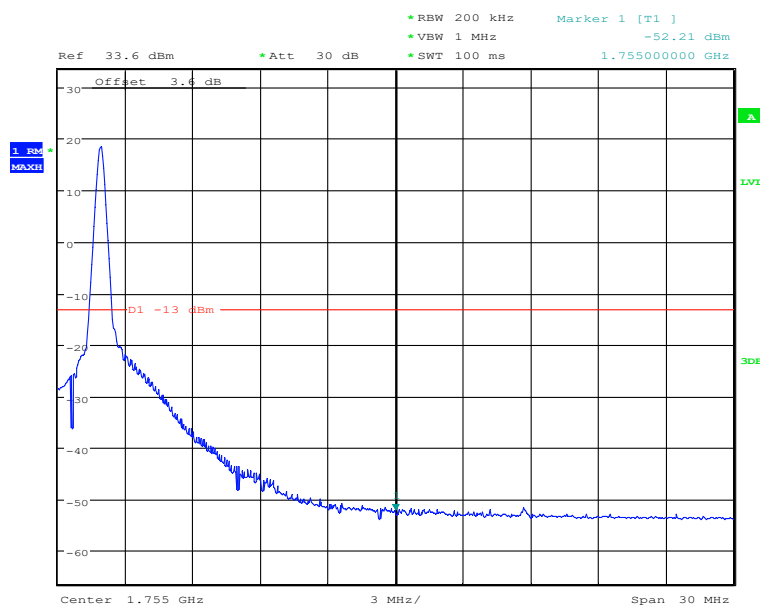
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:52:01

Band4-High Channel-15MHz Bandwidth-16QAM



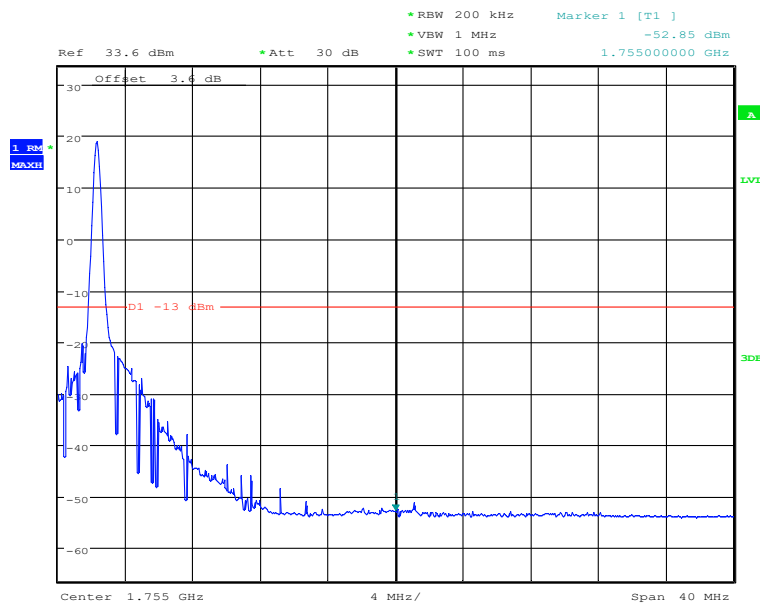
Date: 2.SEP.2020 23:52:43

Band4-High Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

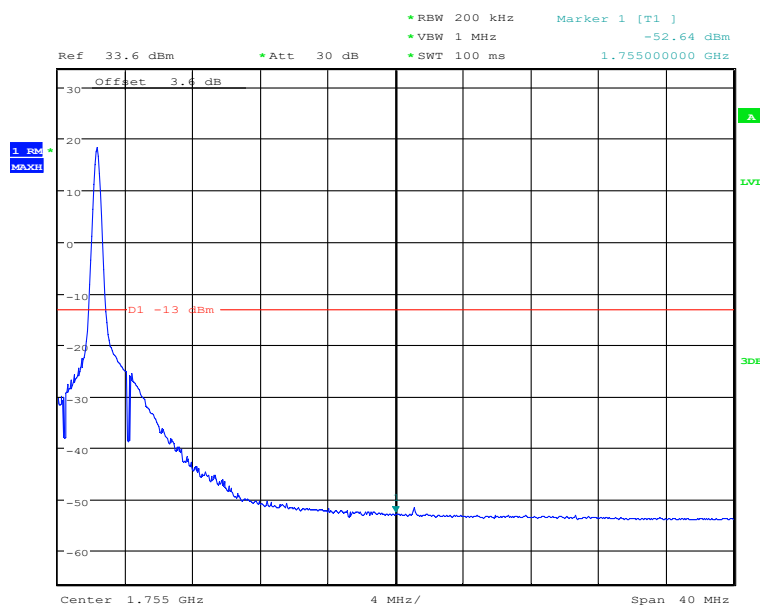
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:59:58

Band4-High Channel-20MHz Bandwidth-16QAM



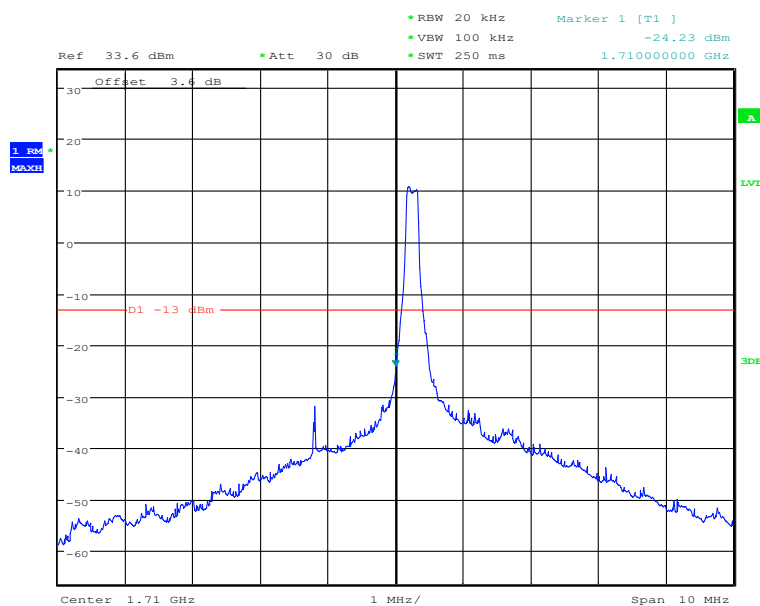
Date: 3.SEP.2020 00:01:05

Band4-High Channel-20MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

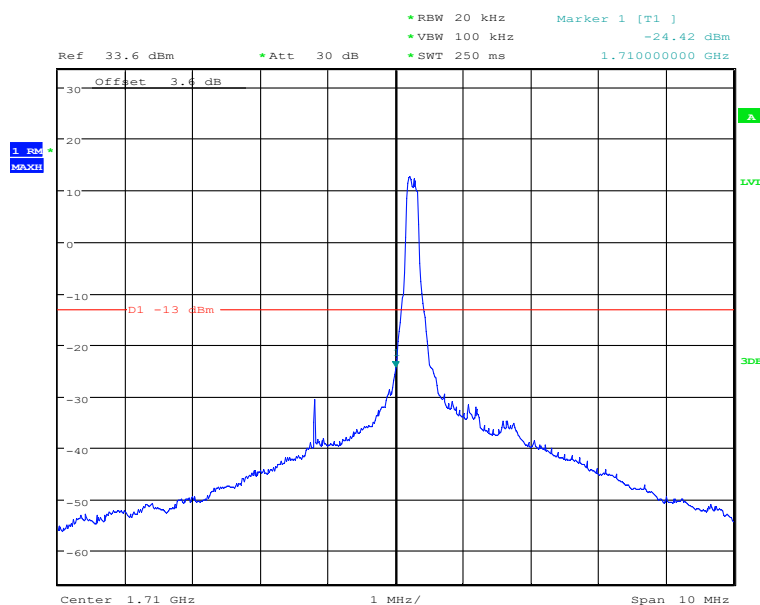
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 18:38:40

Band4-Low Channel-1.4MHz Bandwidth-16QAM



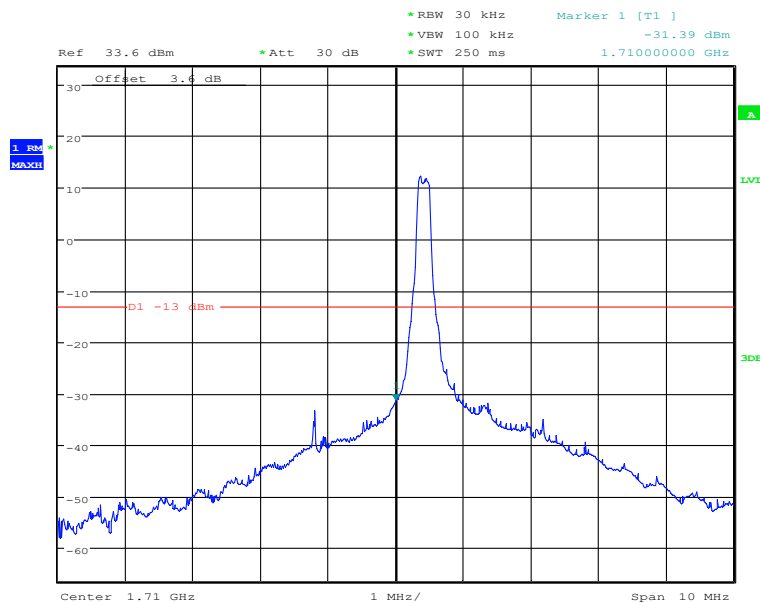
Date: 2.SEP.2020 18:37:21

Band4-Low Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

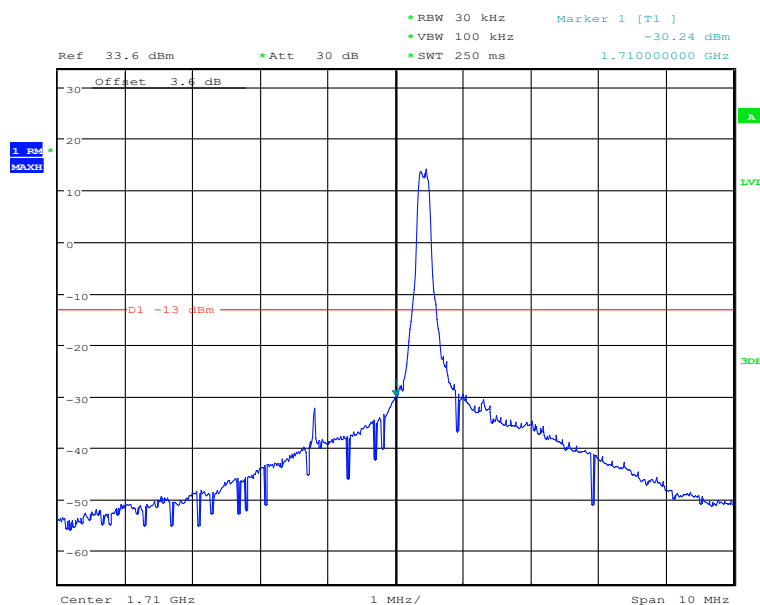
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 18:57:24

Band4-Low Channel-3MHz Bandwidth-16QAM



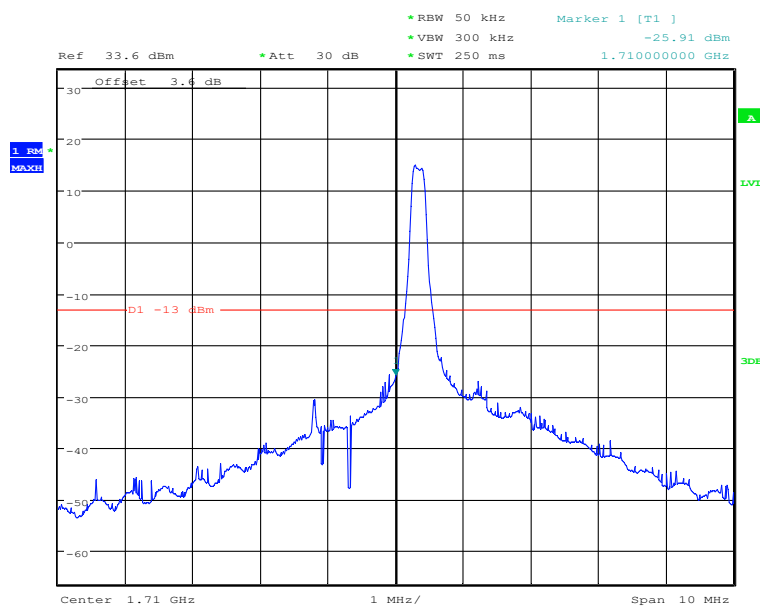
Date: 2.SEP.2020 18:49:19

Band4-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

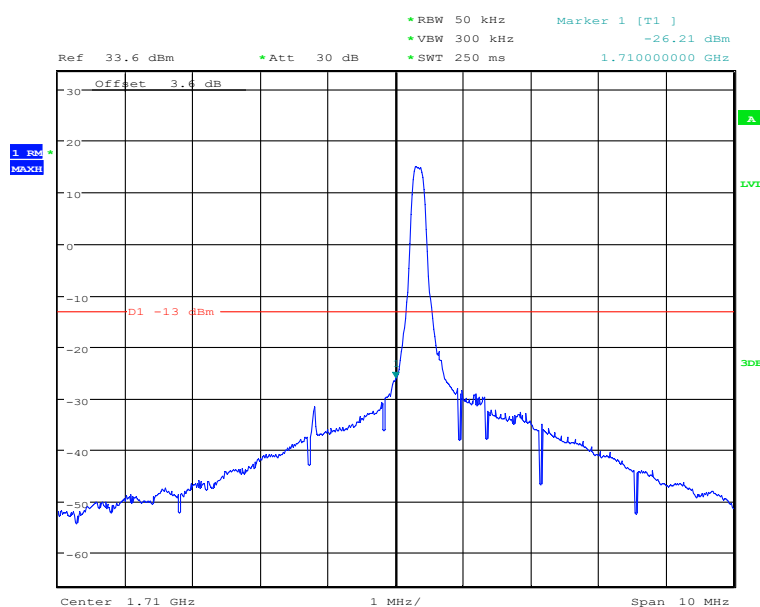
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:33:57

Band4-Low Channel-5MHz Bandwidth-16QAM



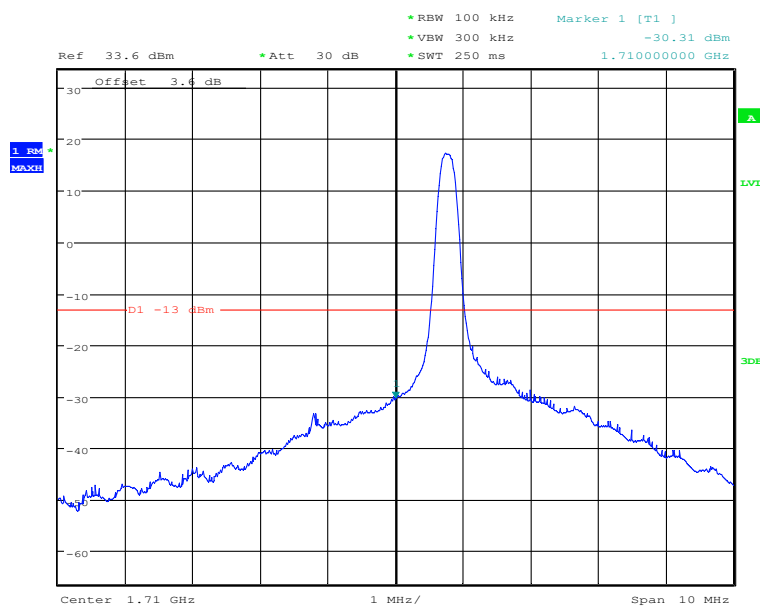
Date: 2.SEP.2020 23:33:05

Band4-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

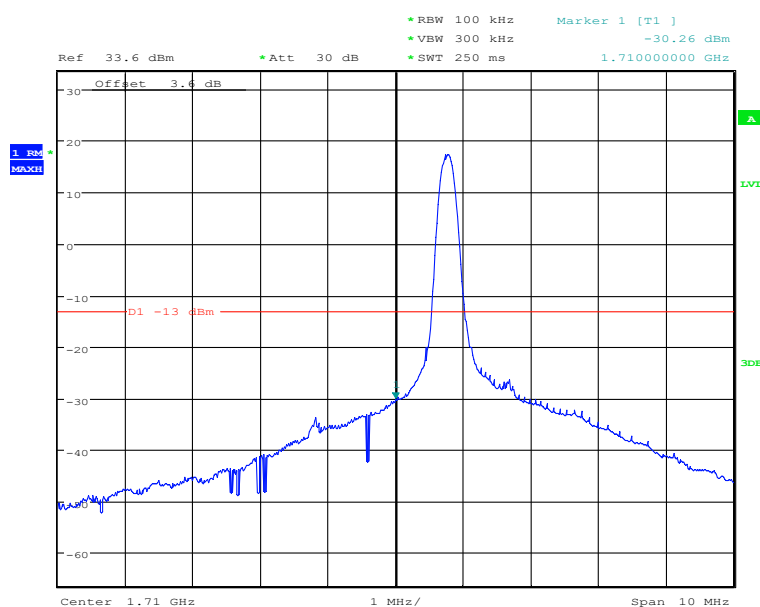
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:41:52

Band4-Low Channel-10MHz Bandwidth-16QAM



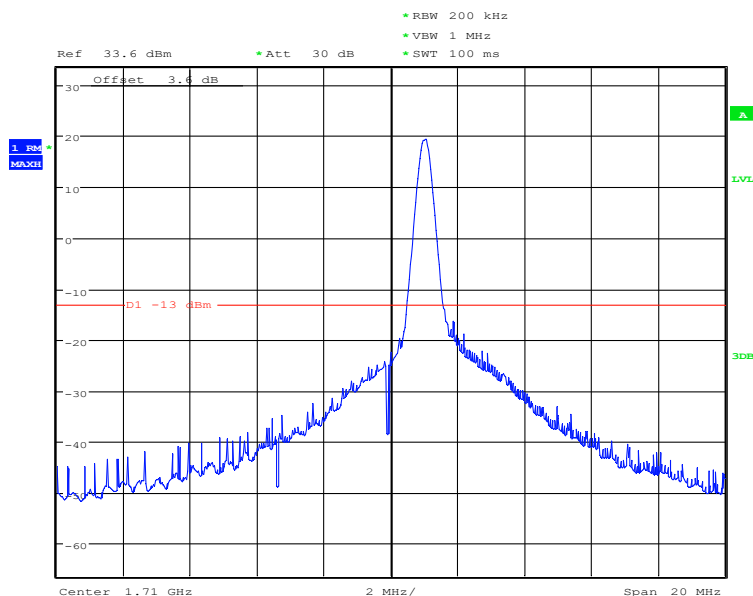
Date: 2.SEP.2020 23:41:09

Band4-Low Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

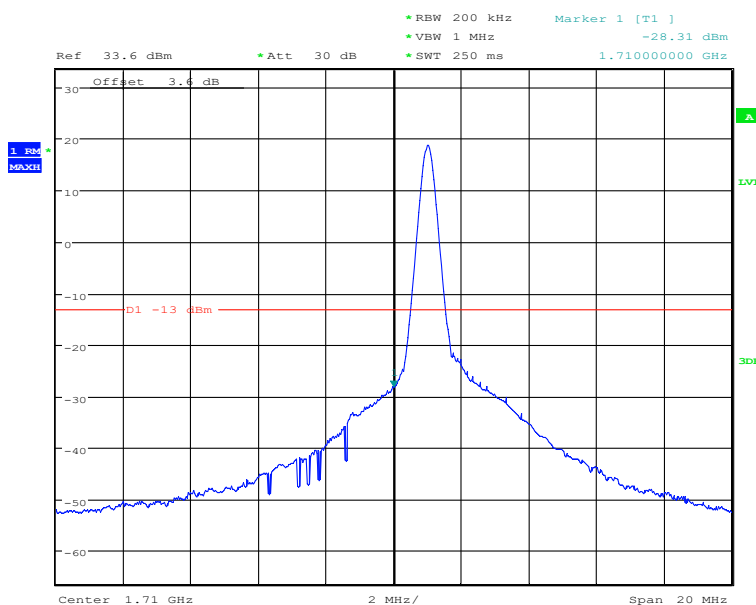
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:49:19

Band4-Low Channel-15MHz Bandwidth-16QAM



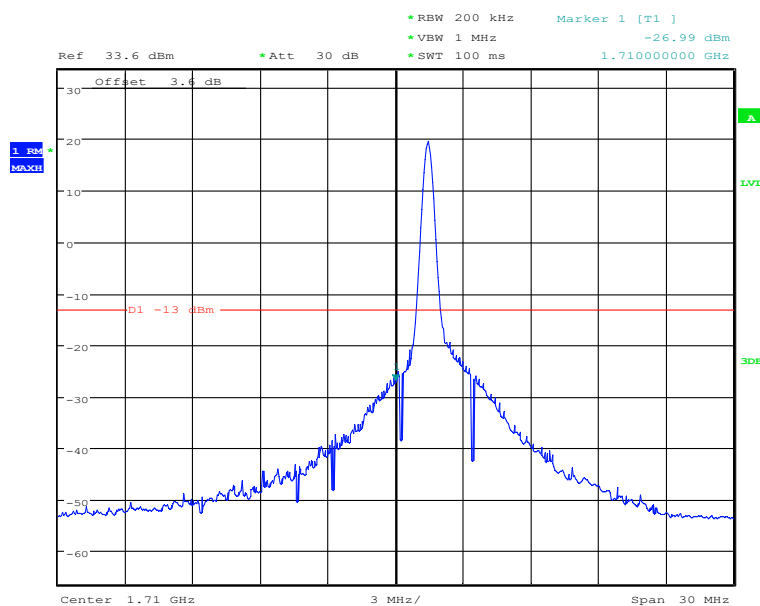
Date: 2.SEP.2020 23:47:40

Band4-Low Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

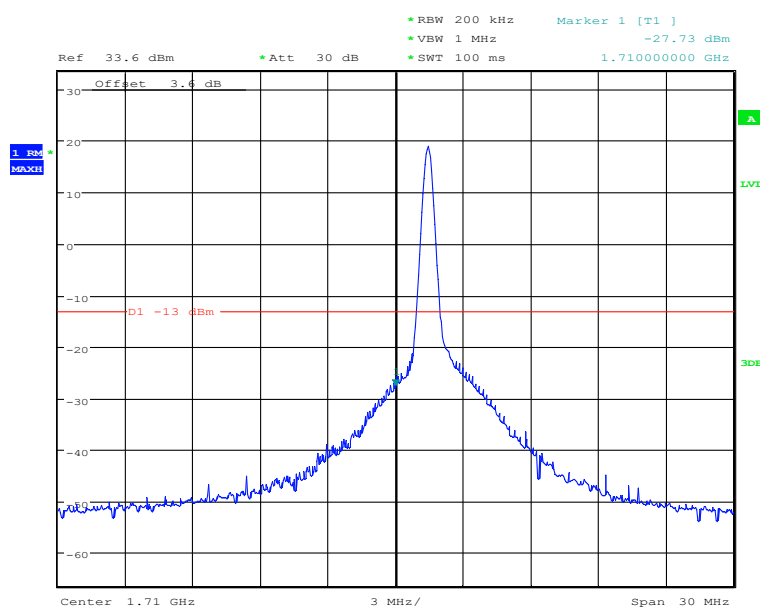
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 23:56:46

Band4-Low Channel-20MHz Bandwidth-16QAM



Date: 2.SEP.2020 23:55:15

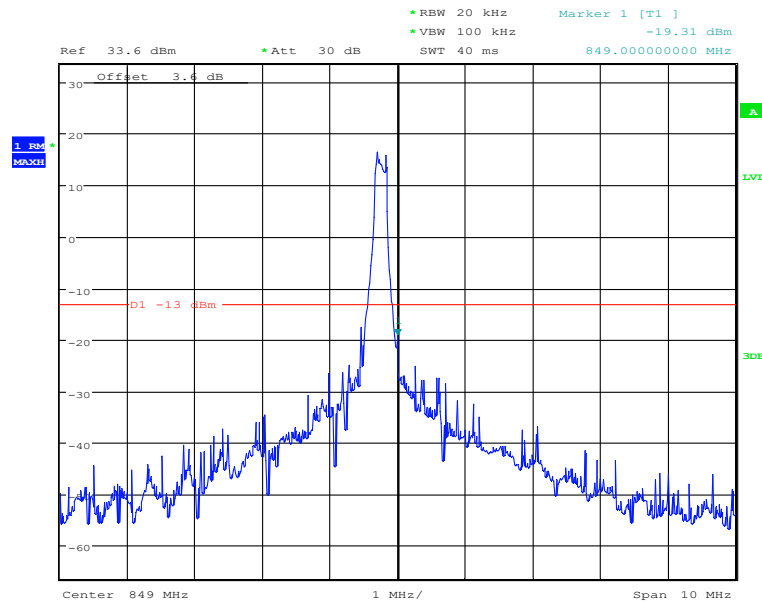
Band4-Low Channel-20MHz Bandwidth-QPSK

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

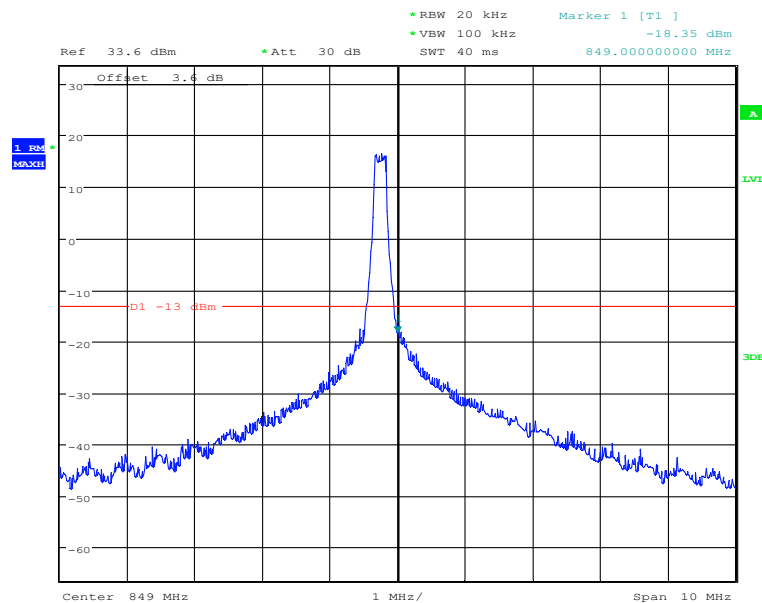
Report No.: I20W00014-WWAN_Rev2

5.6.10 CAT-M Band5 Edge Results



Date: 3.SEP.2020 00:58:36

Band5-High Channel-1.4MHz Bandwidth-16QAM



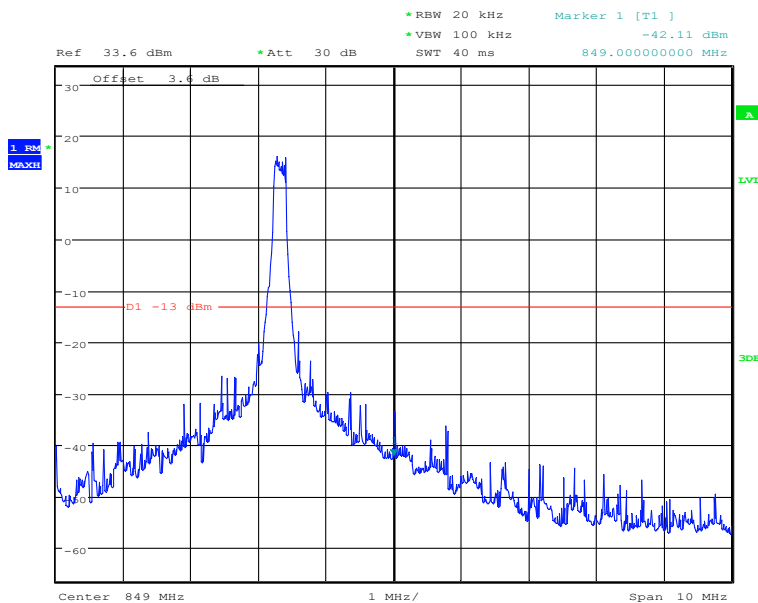
Date: 3.SEP.2020 00:56:06

Band5-High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

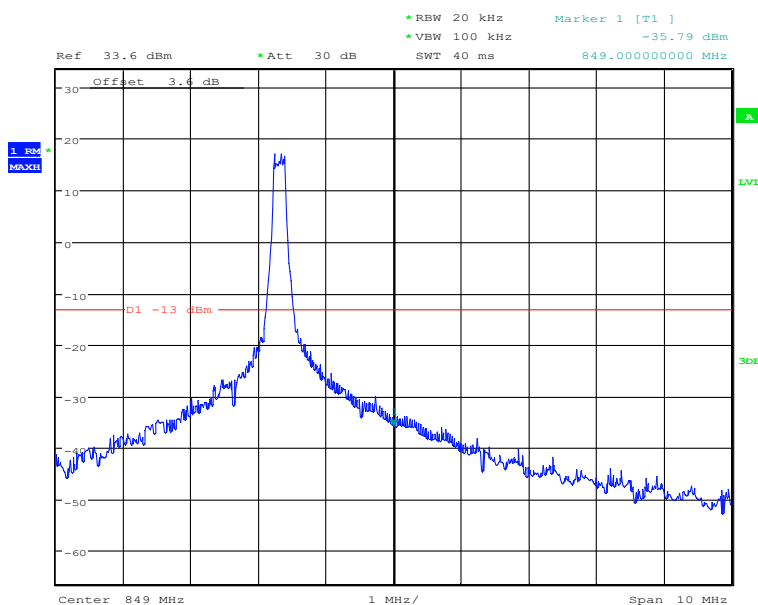
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:07:48

Band5-High Channel-3MHz Bandwidth-16QAM



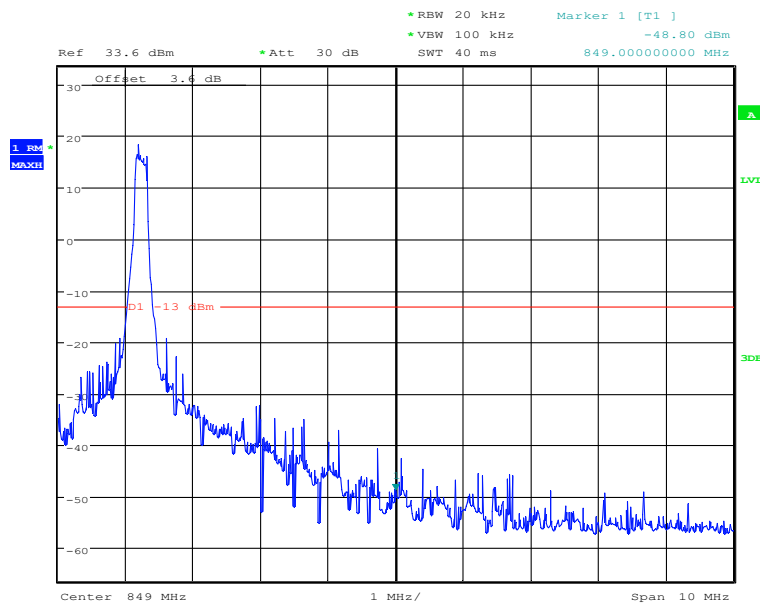
Date: 3.SEP.2020 01:07:59

Band5-High Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

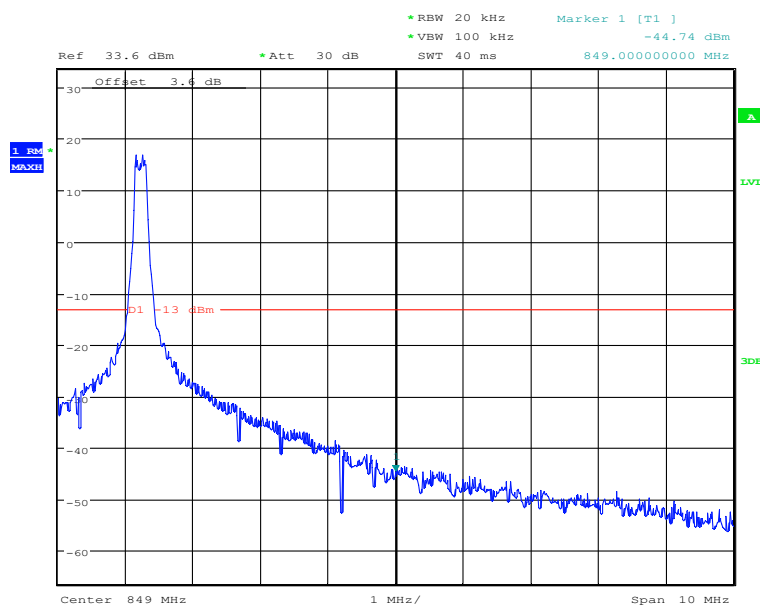
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:14:35

Band5-High Channel-5MHz Bandwidth-16QAM



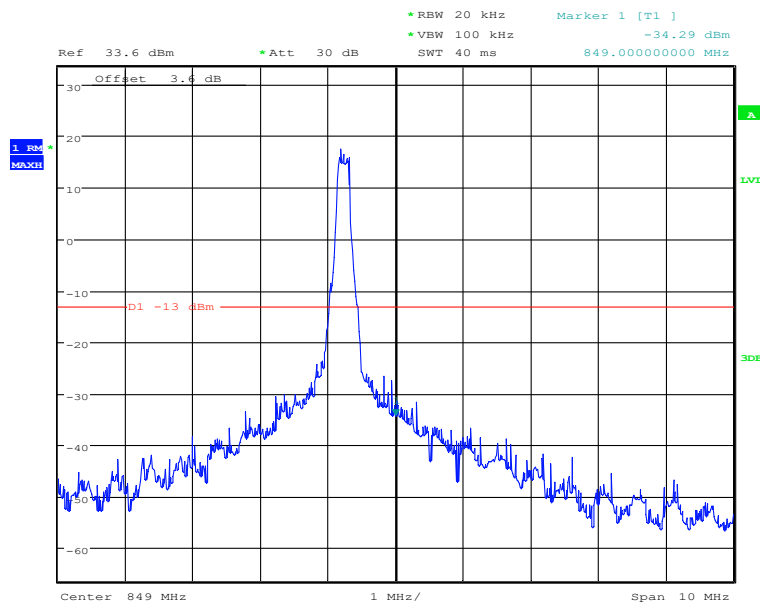
Date: 3.SEP.2020 02:16:08

Band5-High Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

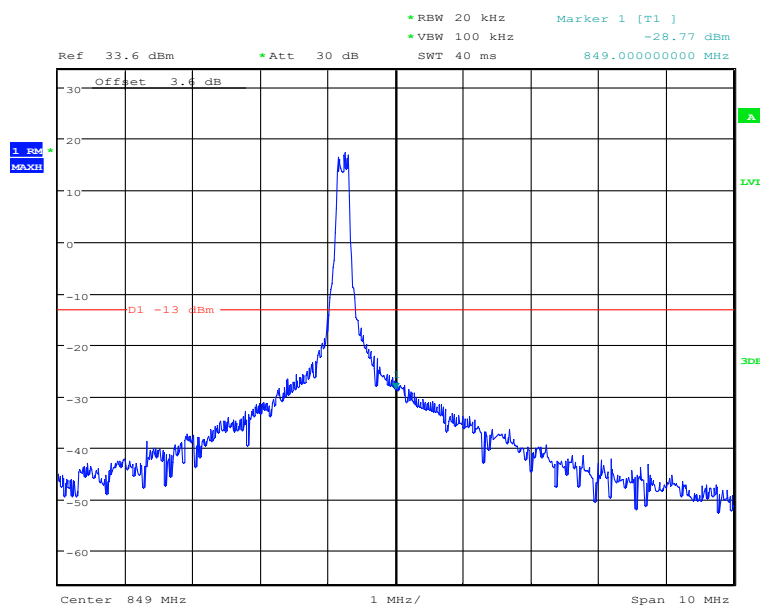
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:23:41

Band5-High Channel-10MHz Bandwidth-16QAM



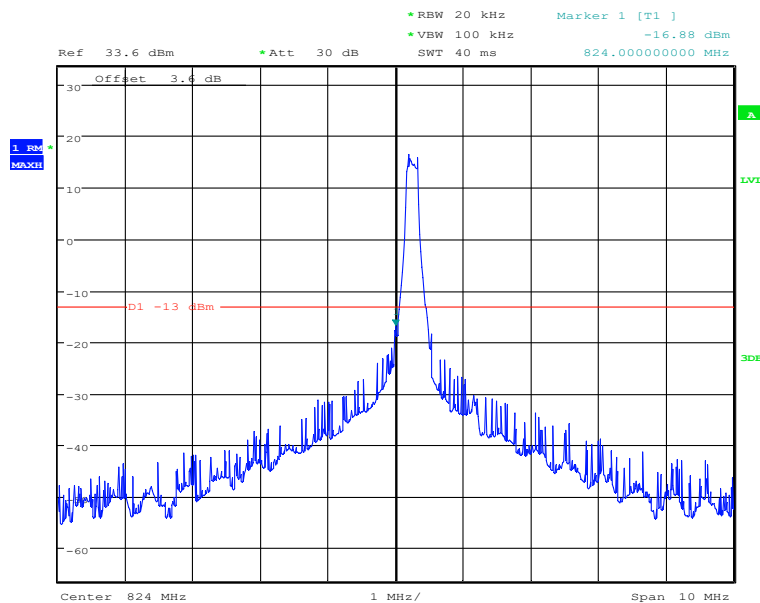
Date: 3.SEP.2020 02:25:00

Band5-High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

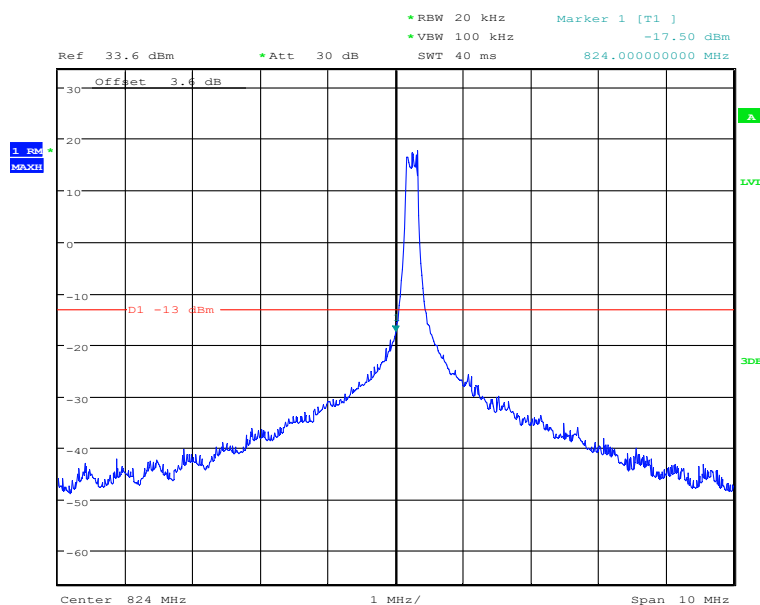
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 00:28:41

Band5-Low Channel-1.4MHz Bandwidth-16QAM



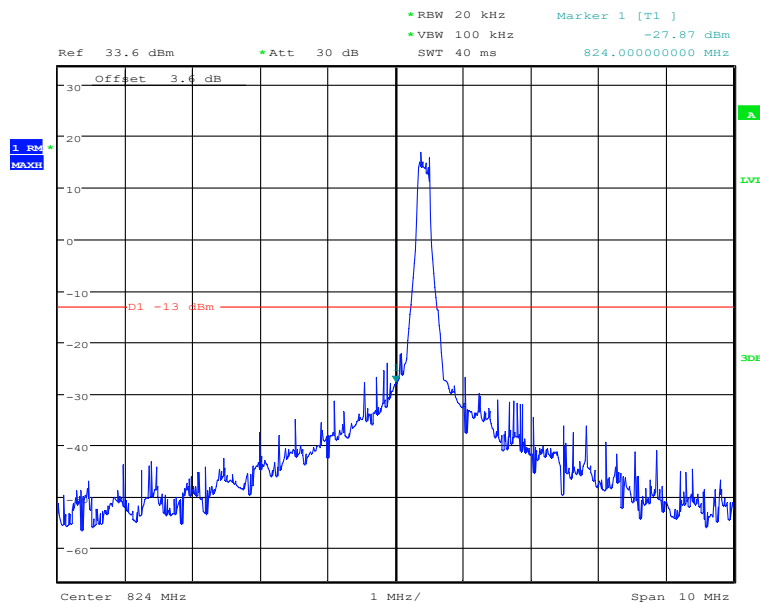
Date: 3.SEP.2020 00:26:03

Band5-Low Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

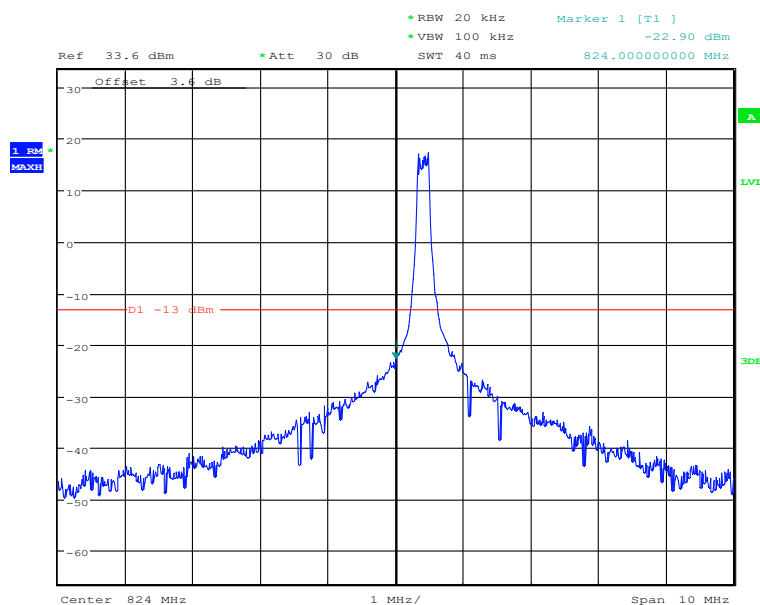
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 01:05:28

Band5-Low Channel-3MHz Bandwidth-16QAM



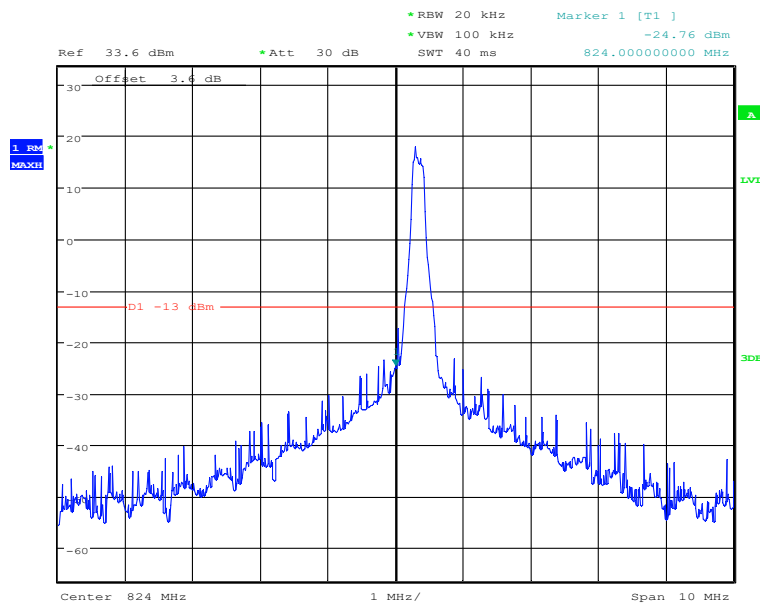
Date: 3.SEP.2020 01:01:00

Band5-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

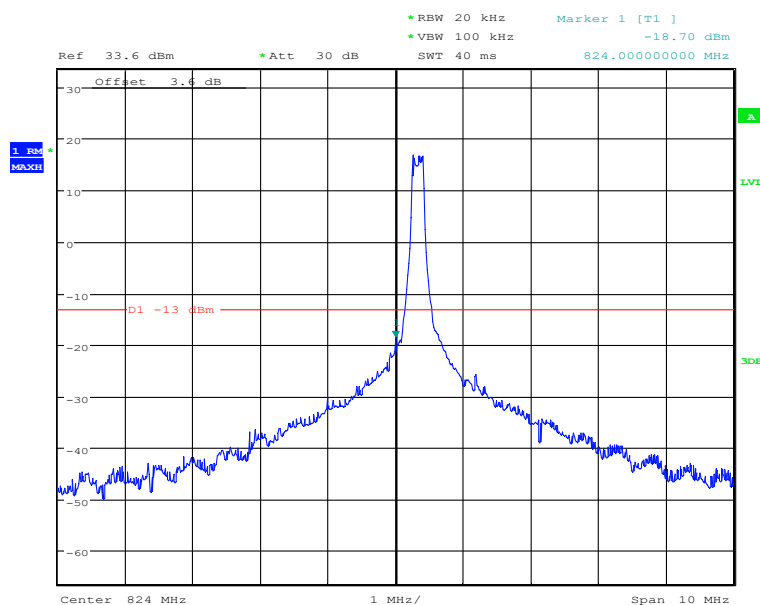
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:13:11

Band5-Low Channel-5MHz Bandwidth-16QAM



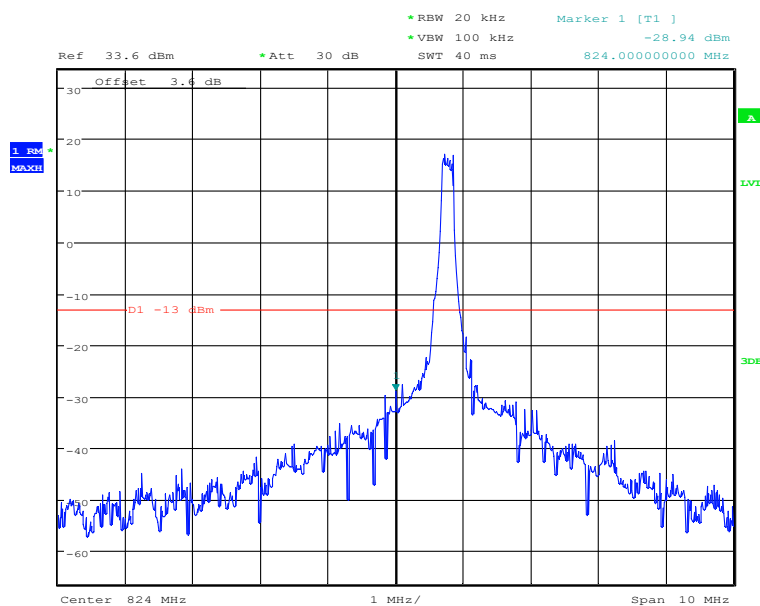
Date: 3.SEP.2020 02:10:44

Band5-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

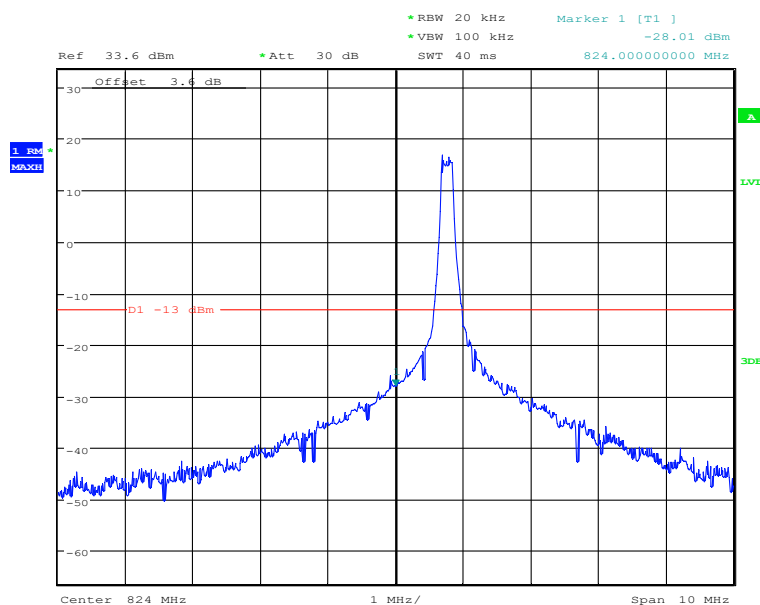
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:22:14

Band5-Low Channel-10MHz Bandwidth-16QAM



Date: 3.SEP.2020 02:20:27

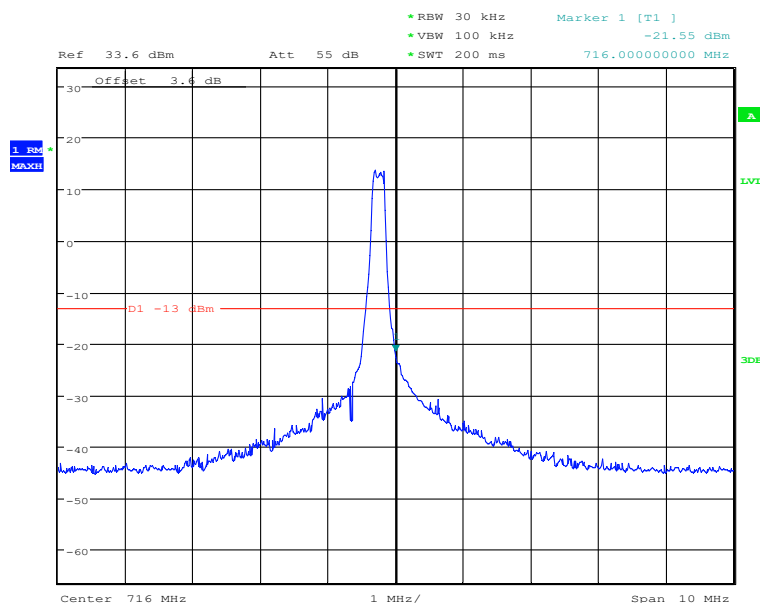
Band5-Low Channel-10MHz Bandwidth-QPSK

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

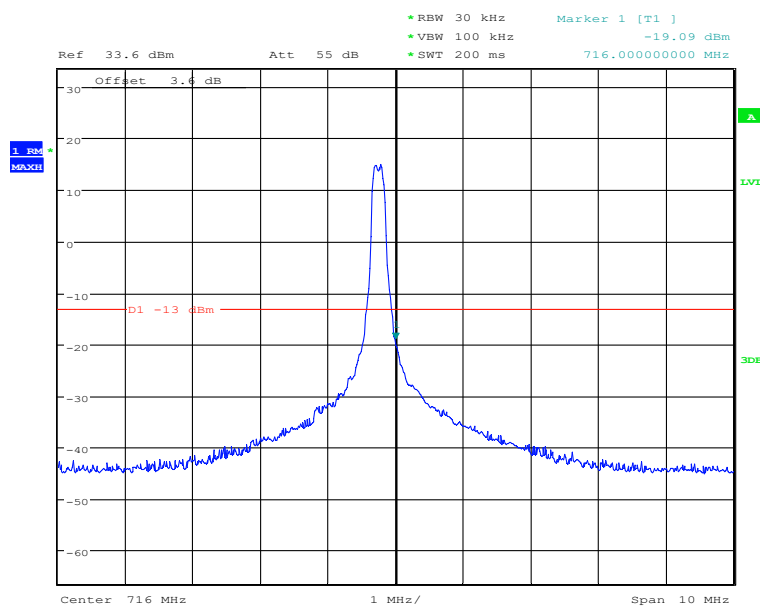
Report No.: I20W00014-WWAN_Rev2

5.6.11 CAT-M Band12 Edge Results



Date: 3.SEP.2020 22:22:55

High Channel-1.4MHz Bandwidth-16QAM



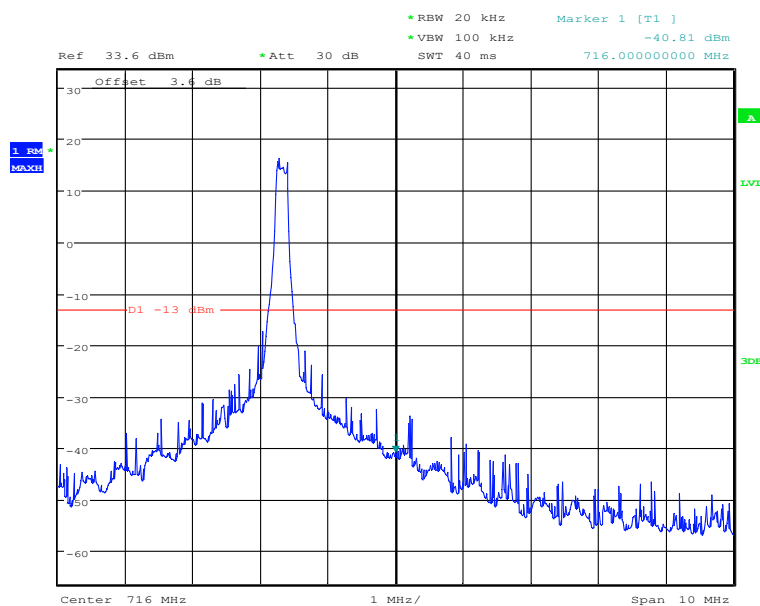
Date: 3.SEP.2020 22:23:34

High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

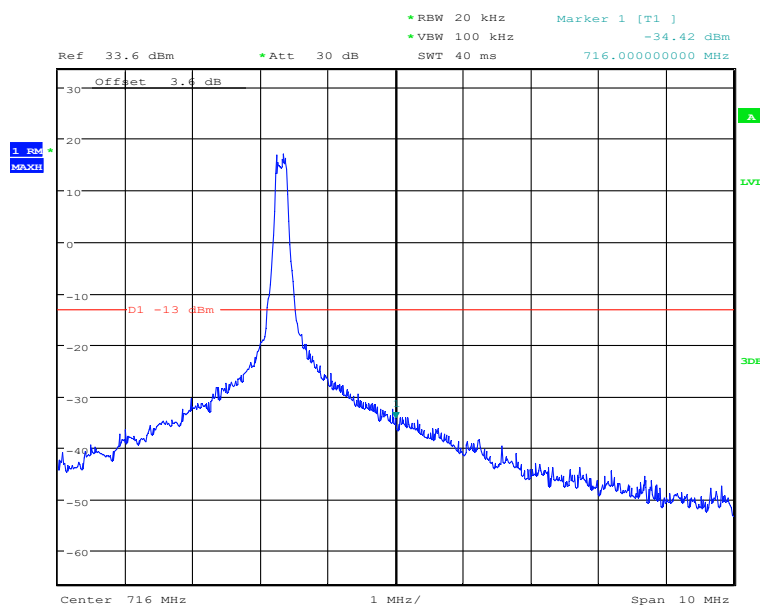
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:49:35

High Channel-3MHz Bandwidth-16QAM



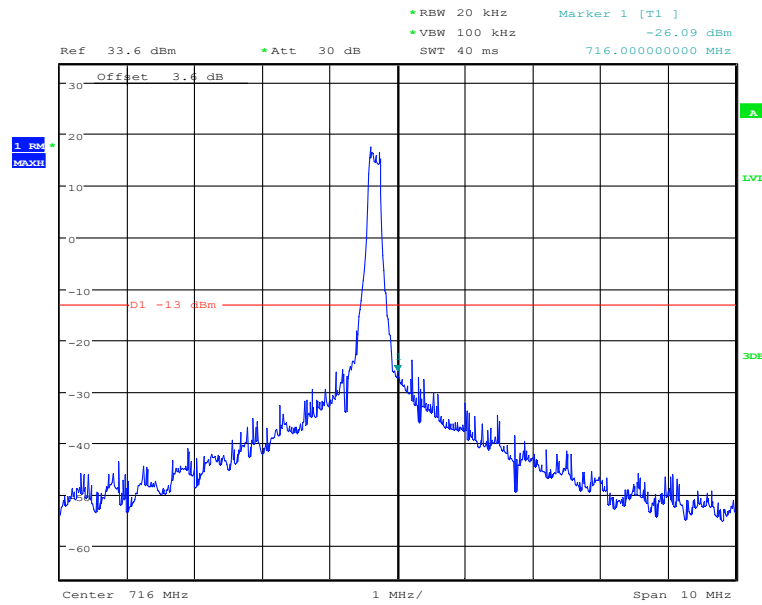
Date: 3.SEP.2020 02:52:43

High Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

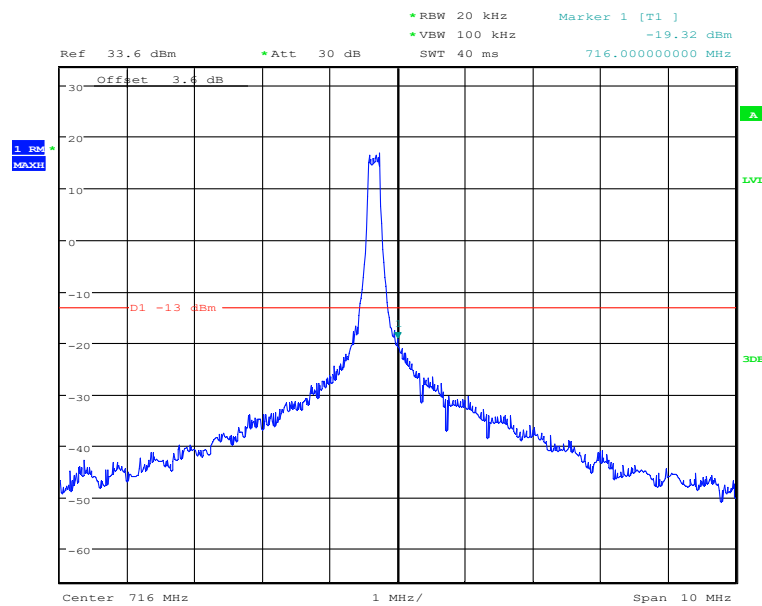
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:00:51

High Channel-5MHz Bandwidth-16QAM



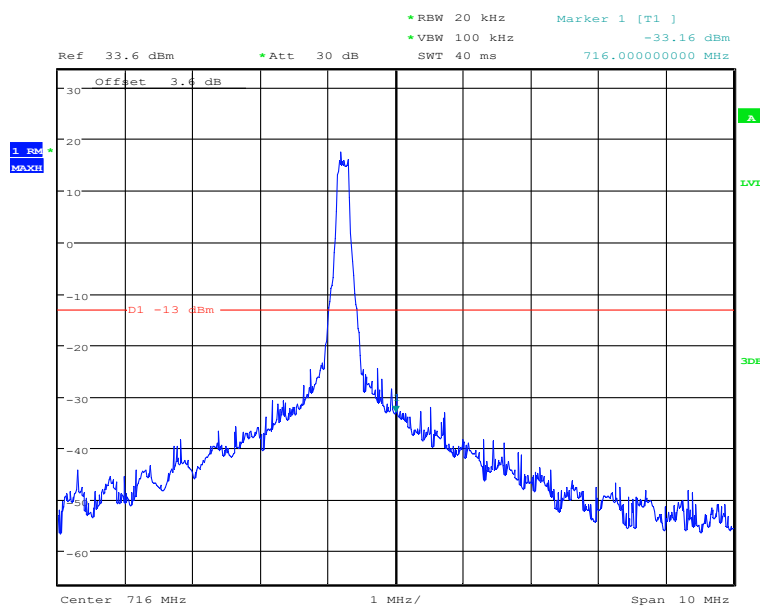
Date: 3.SEP.2020 03:02:55

High Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

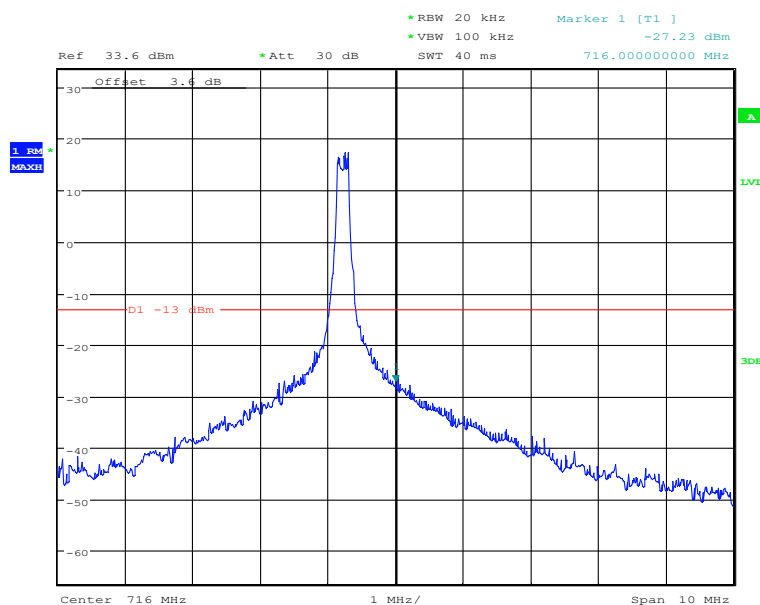
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:12:11

High Channel-10MHz Bandwidth-16QAM



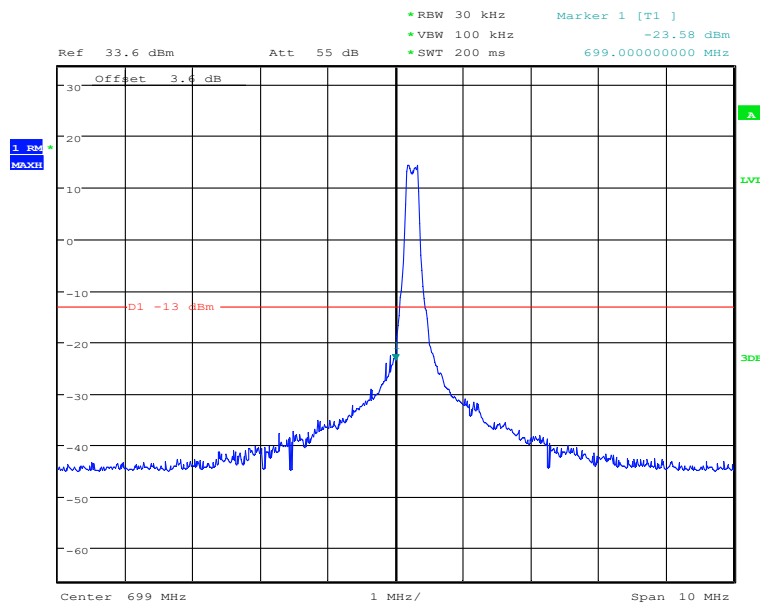
Date: 3.SEP.2020 03:10:19

High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

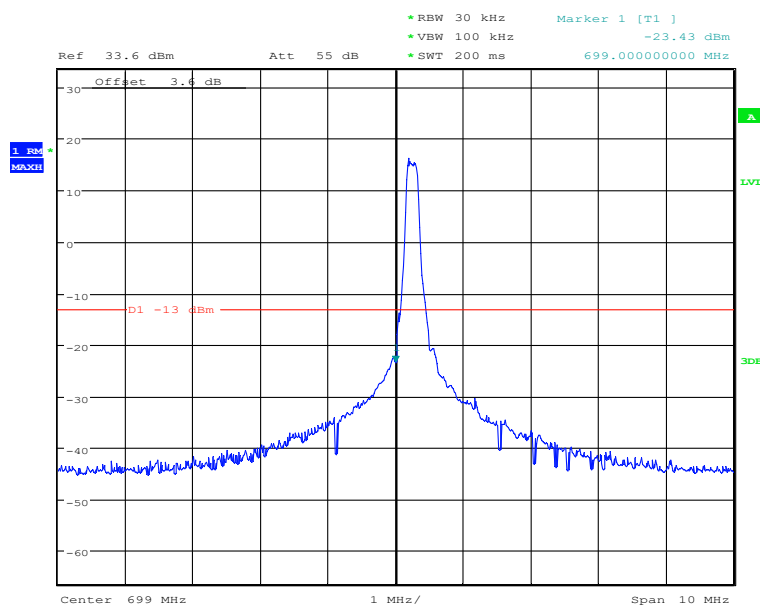
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 22:20:07

Low Channel-1.4MHz Bandwidth-16QAM



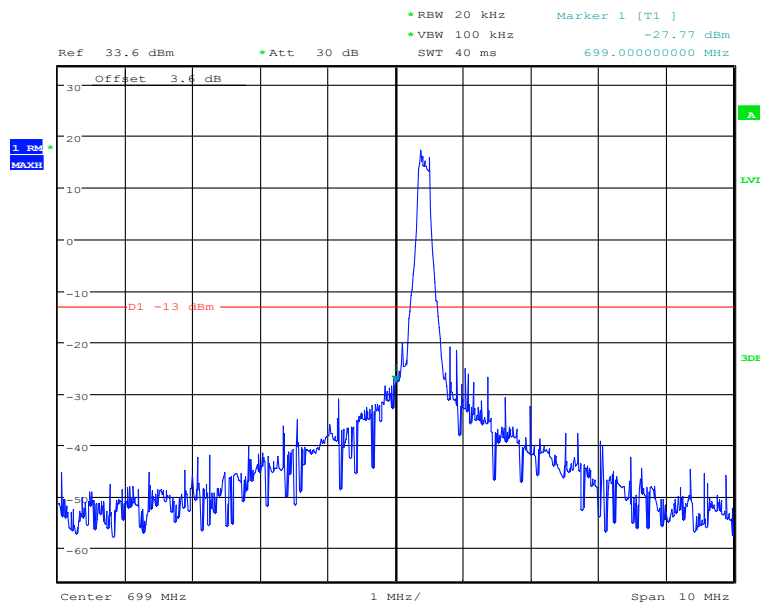
Date: 3.SEP.2020 22:19:20

Low Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

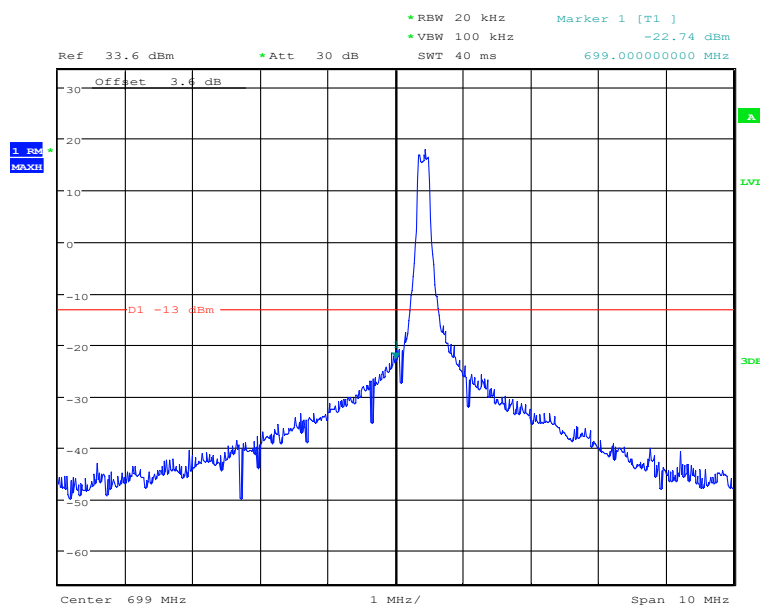
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:46:31

Low Channel-3MHz Bandwidth-16QAM



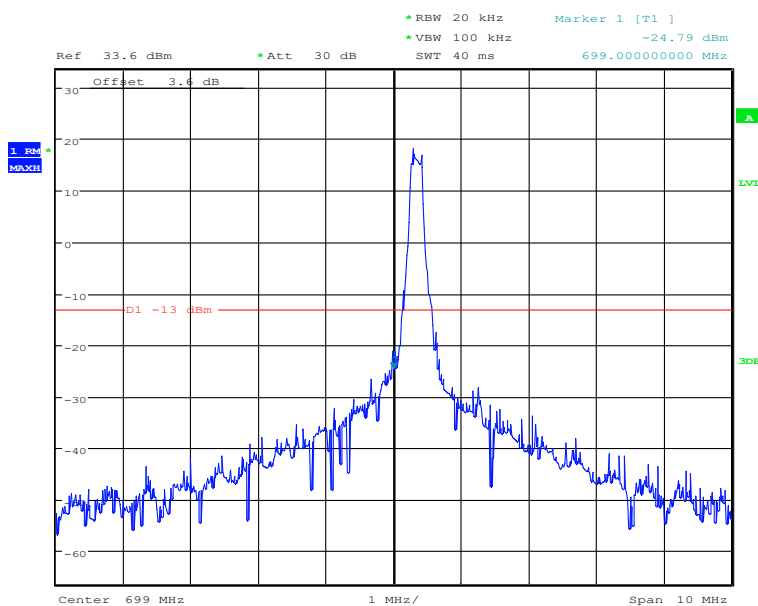
Date: 3.SEP.2020 02:44:21

Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

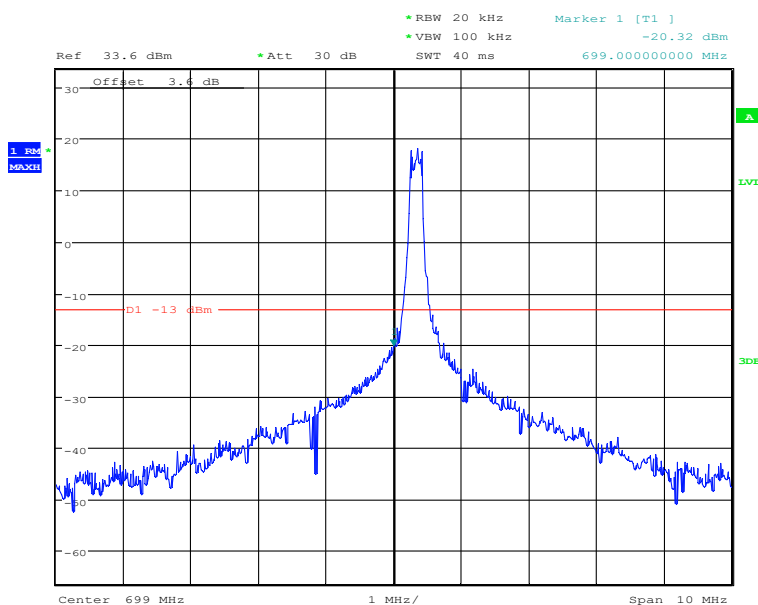
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 02:58:32

Low Channel-5MHz Bandwidth-16QAM



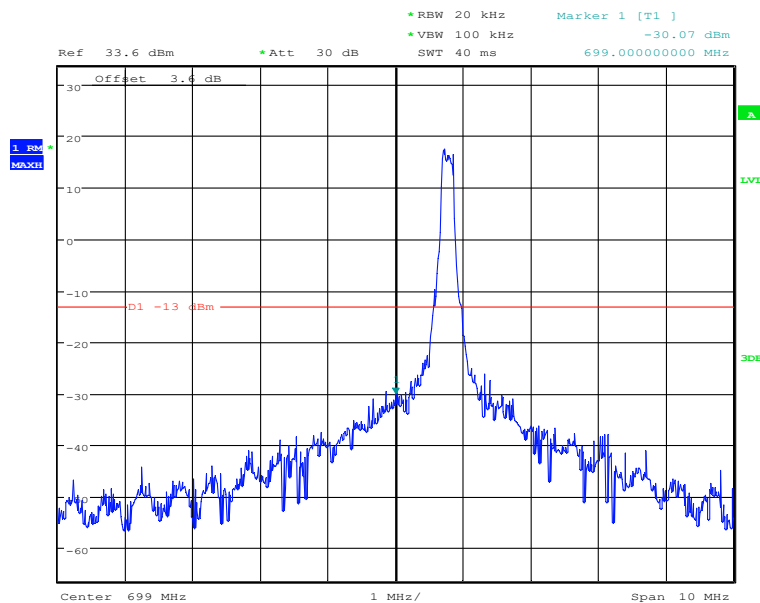
Date: 3.SEP.2020 02:55:25

Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

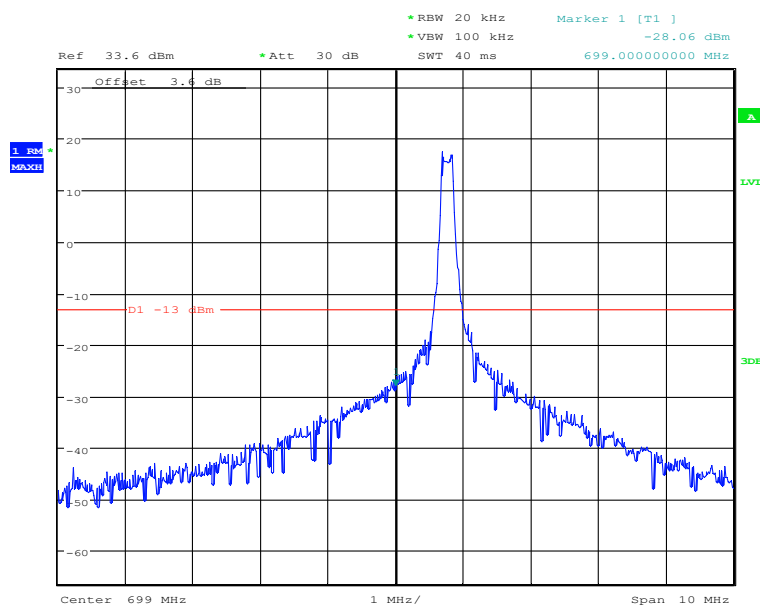
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:08:44

Low Channel-10MHz Bandwidth-16QAM



Date: 3.SEP.2020 03:07:01

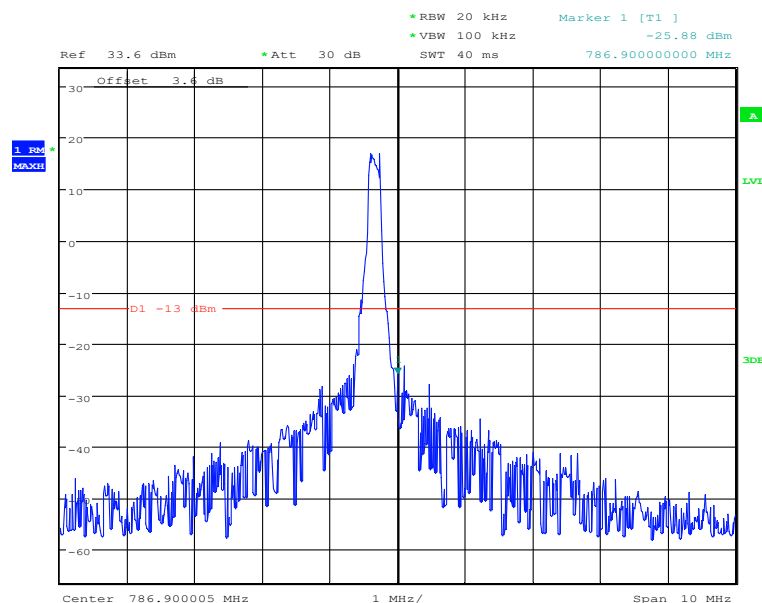
Low Channel-10MHz Bandwidth-QPSK

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

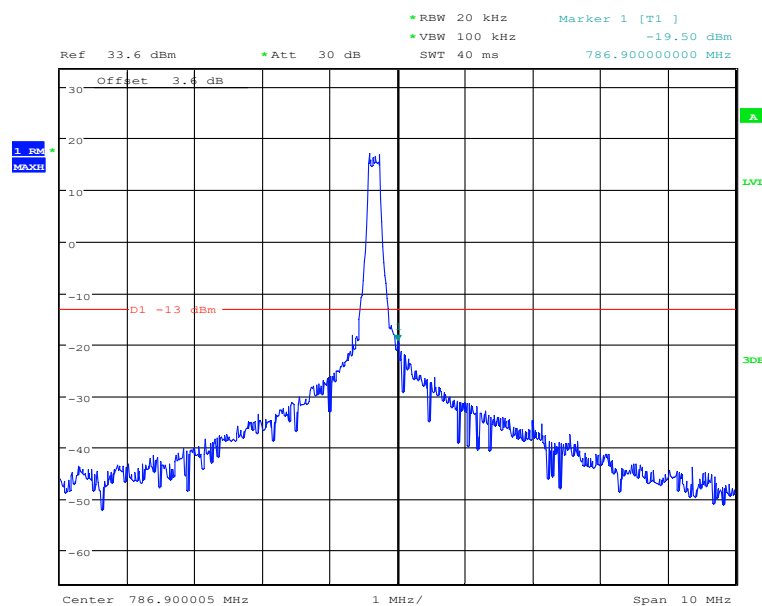
Report No.: I20W00014-WWAN_Rev2

5.6.12 CAT-M Band13 Edge Results



Date: 3.SEP.2020 03:24:24

High Channel-5MHz Bandwidth-16QAM



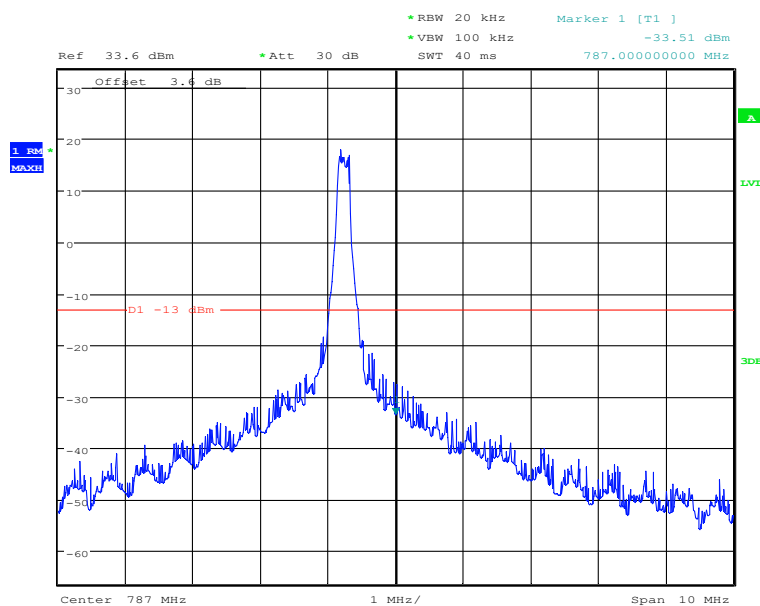
Date: 3.SEP.2020 03:26:02

High Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

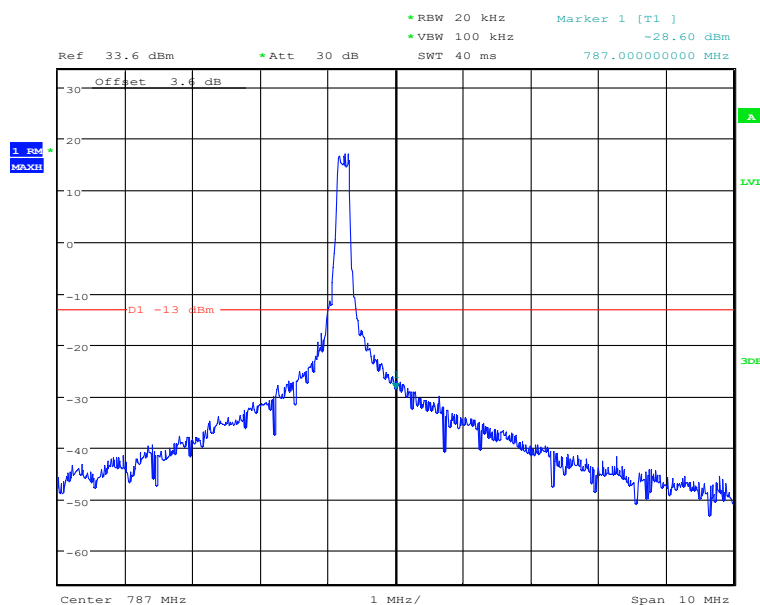
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:39:44

High Channel-10MHz Bandwidth-16QAM



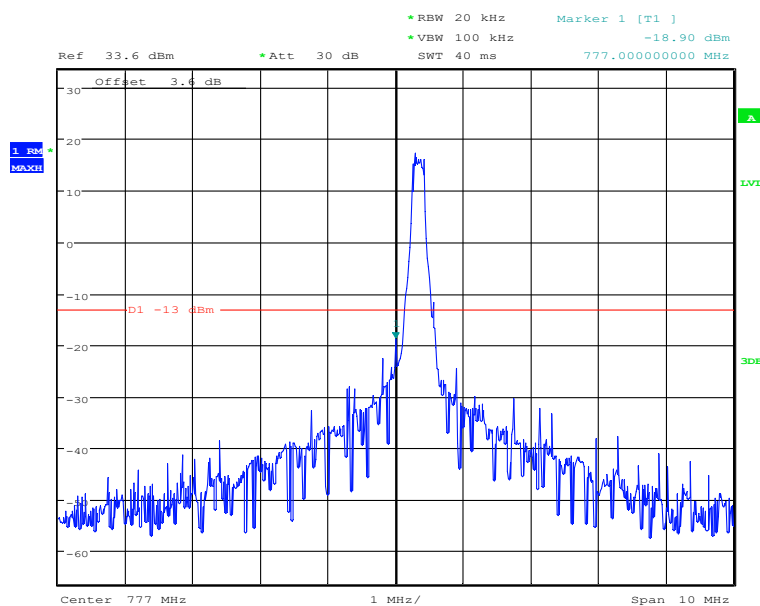
Date: 3.SEP.2020 03:40:59

High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

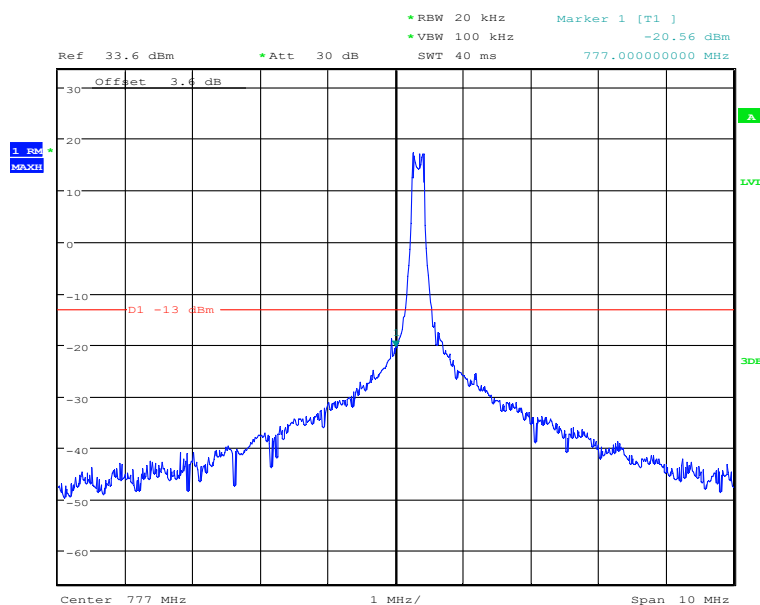
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:22:31

Low Channel-5MHz Bandwidth-16QAM



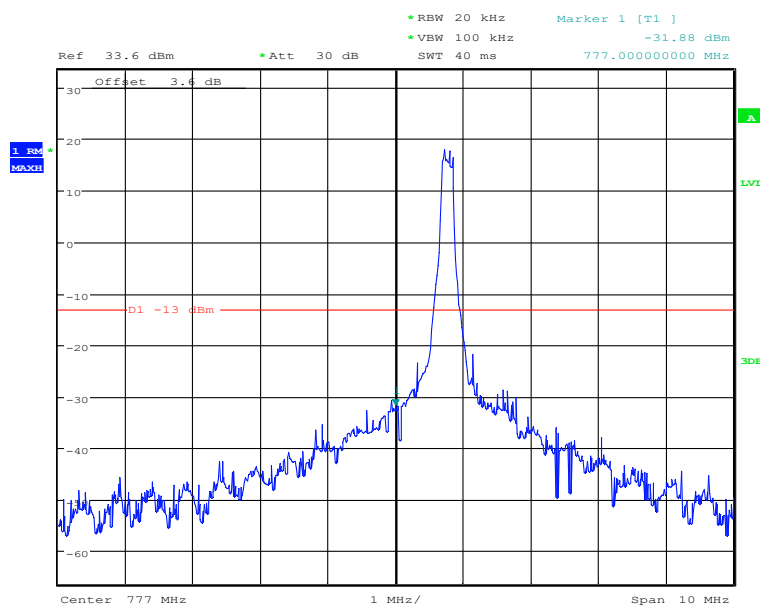
Date: 3.SEP.2020 03:20:47

Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

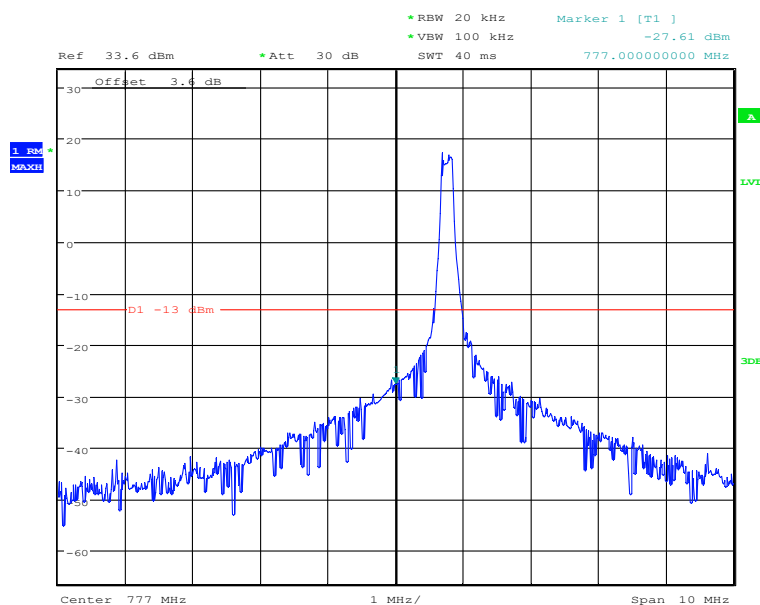
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:30:04

Low Channel-10MHz Bandwidth-16QAM



Date: 3.SEP.2020 03:29:12

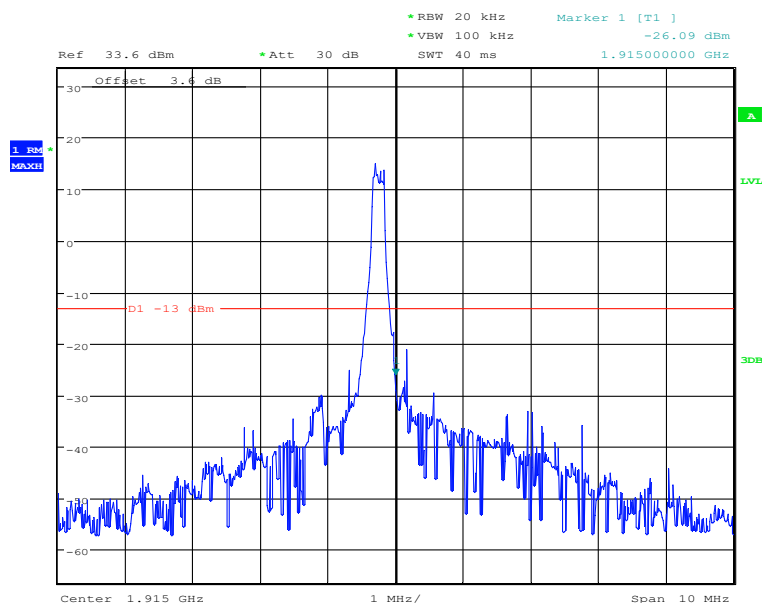
Low Channel-10MHz Bandwidth-QPSK

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

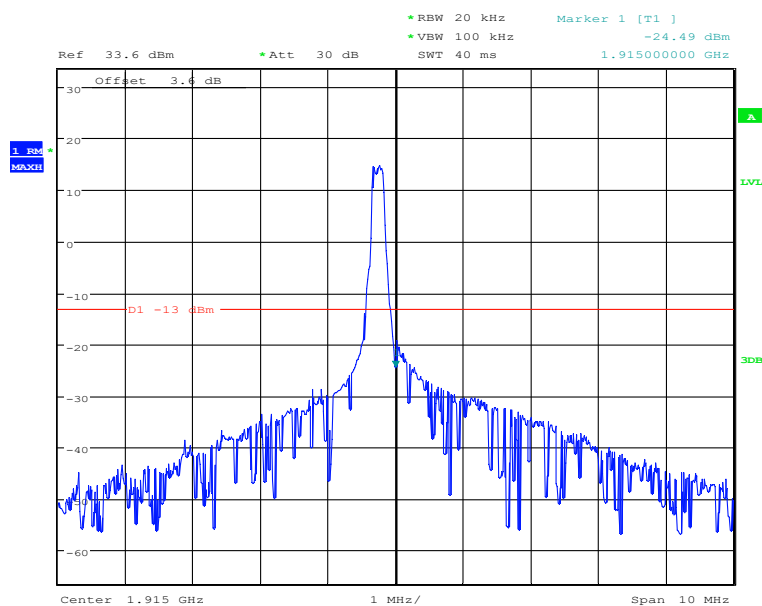
Report No.: I20W00014-WWAN_Rev2

5.6.13 CAT-M Band25 Edge Results



Date: 3.SEP.2020 03:51:45

Band25-High Channel-1.4MHz Bandwidth-16QAM



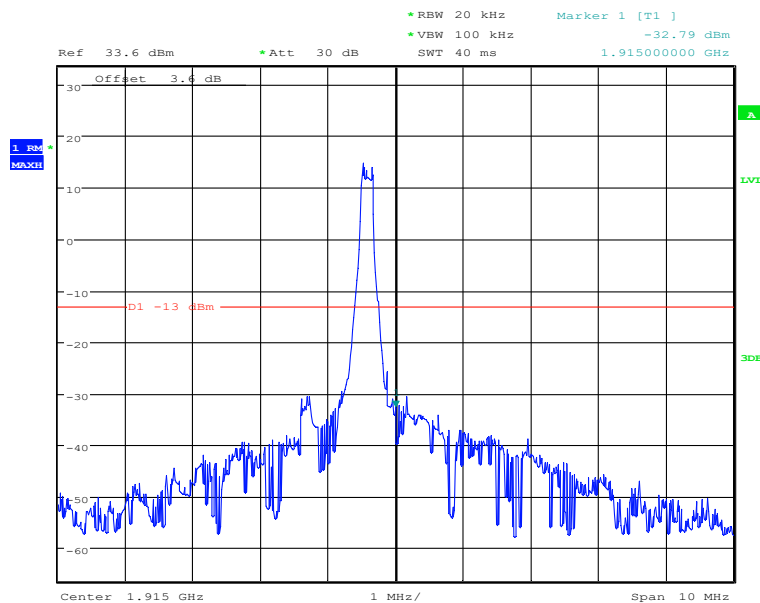
Date: 3.SEP.2020 03:54:07

Band25-High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

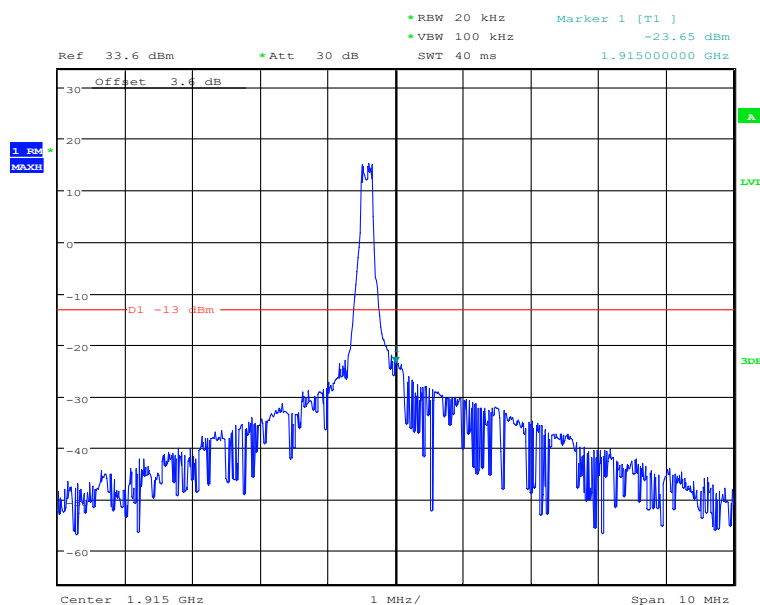
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:06:47

Band25-High Channel-3MHz Bandwidth-16QAM



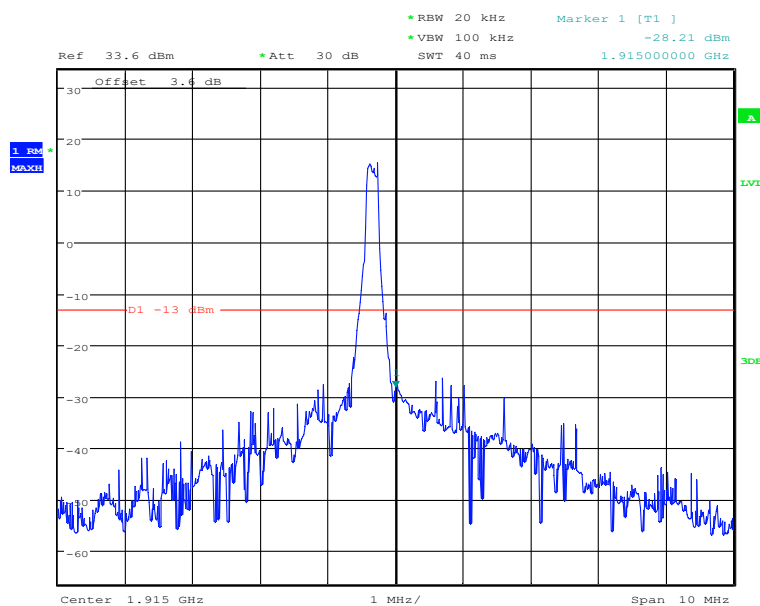
Date: 3.SEP.2020 04:05:14

Band25-High Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

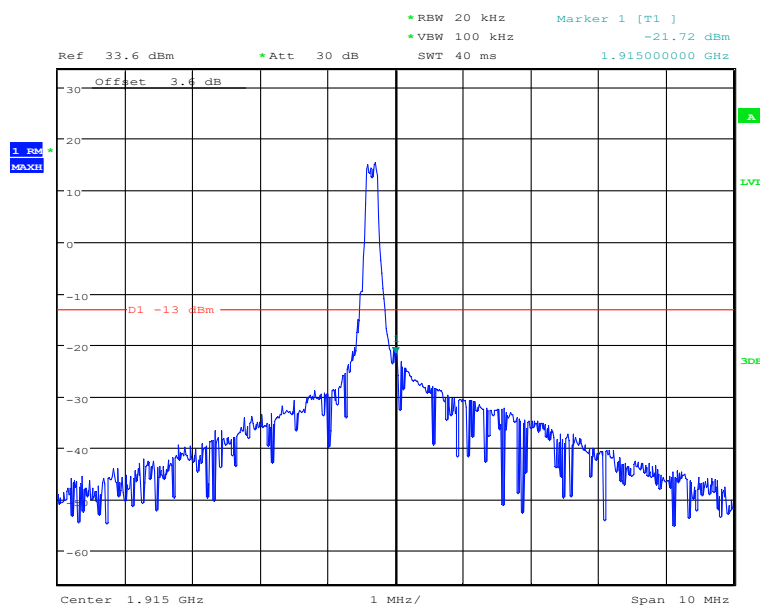
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:12:19

Band25-High Channel-5MHz Bandwidth-16QAM



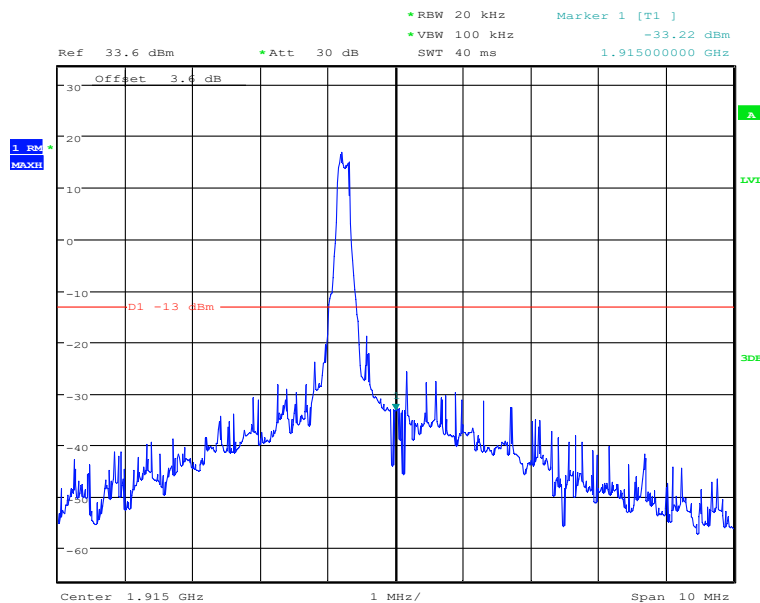
Date: 3.SEP.2020 04:12:57

Band25-High Channel-5MHz Bandwidth-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.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:19:21

Band25-High Channel-10MHz Bandwidth-16QAM



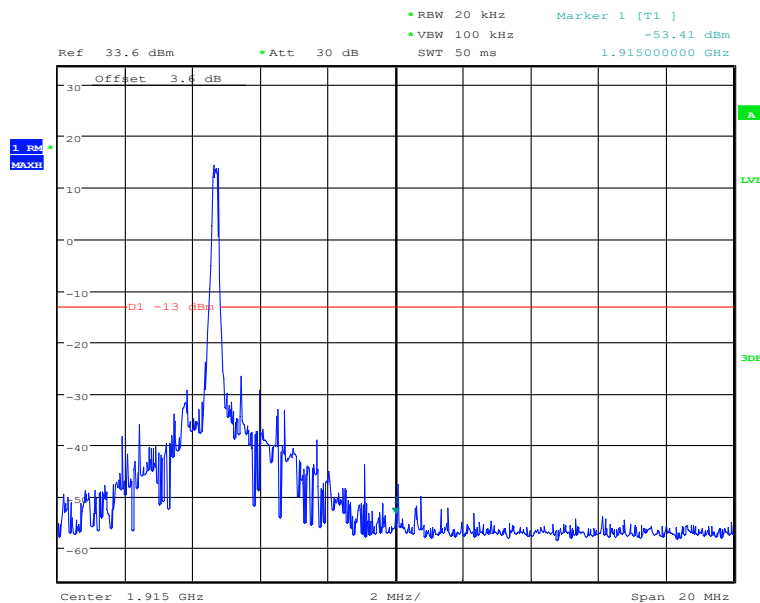
Date: 3.SEP.2020 04:20:03

Band25-High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

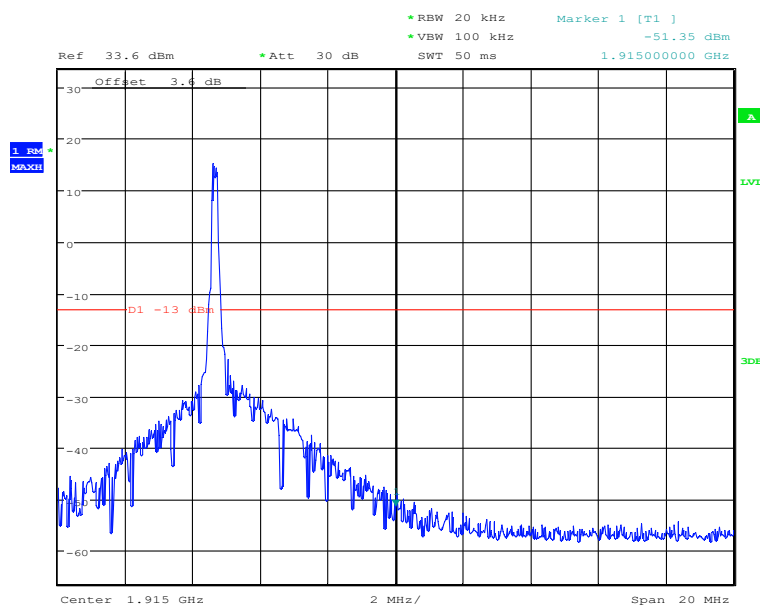
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:31:48

Band25-High Channel-15MHz Bandwidth-16QAM



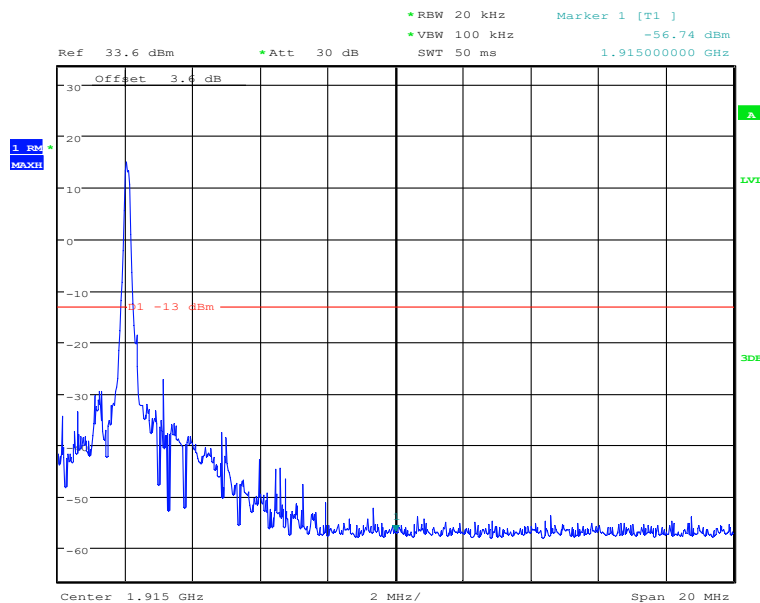
Date: 3.SEP.2020 04:32:23

Band25-High Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

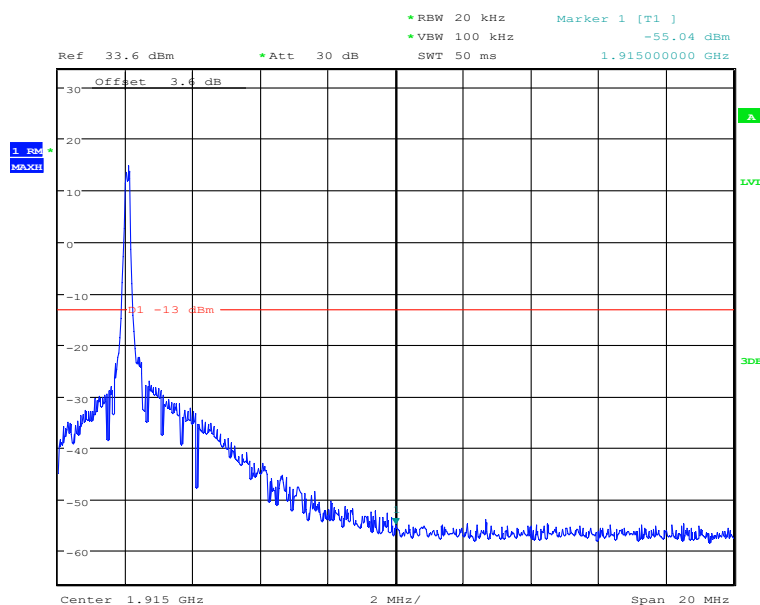
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:37:54

Band25-High Channel-20MHz Bandwidth-16QAM



Date: 3.SEP.2020 04:39:36

Band25-High Channel-20MHz Bandwidth-QPSK

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



Ref 33.6 dBm * Att 30 dB RBW 20 kHz VBW 100 kHz Span 10 MHz

Marker 1 [T1] -25.15 dBm 1.850000000 GHz

Offset 3.6 dB

1.85 GHz

MAXH

D1 -13 dBm

Center 1.85 GHz 1 MHz/ Span 10 MHz

Date: 3.SEP.2020 03:50:13

Ref 33.6 dBm *Att 30 dB RBW 20 kHz VSW 100 kHz SWT 40 ms Marker 1 [T1] -20.17 dBm 1.850000000 GHz

Offset 3.6 dB

1.85 GHz MAXH

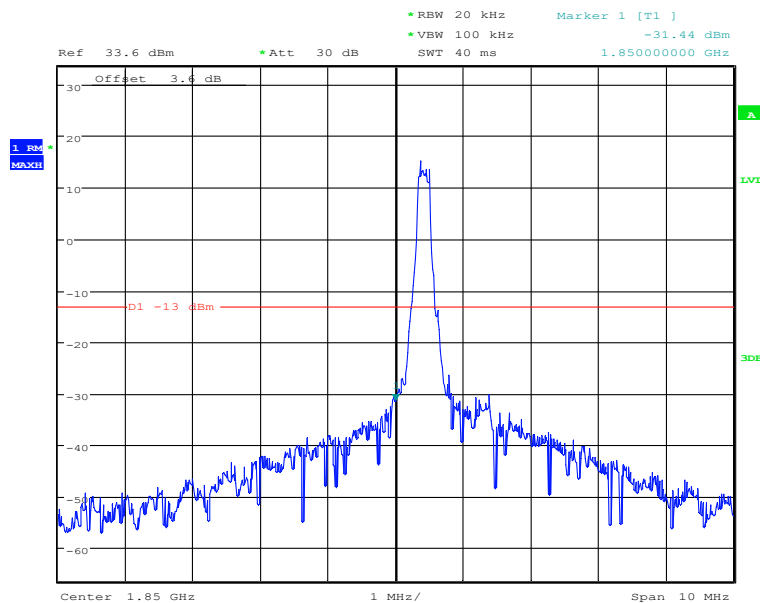
D1 -13 dBm

Center 1.85 GHz 1 MHz/ Span 10 MHz

Date: 3.SEP.2020 03:47:34

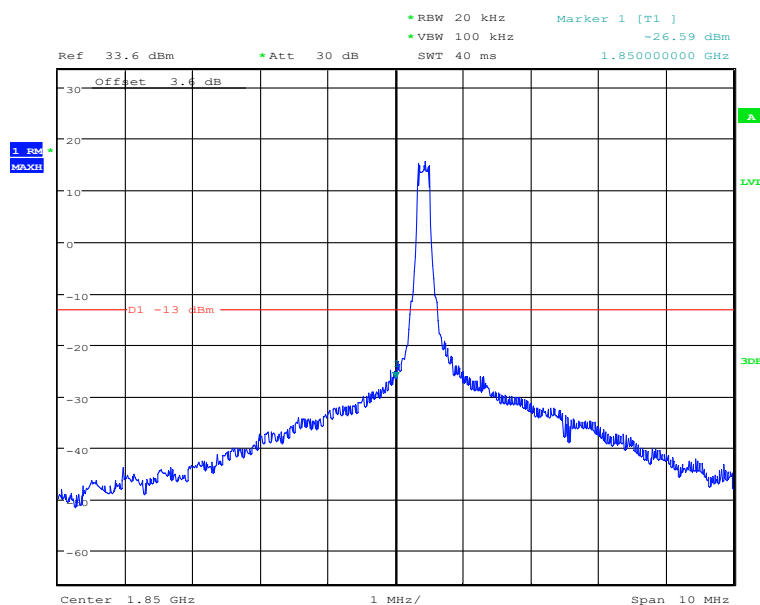
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 03:58:04

Band25-Low Channel-3MHz Bandwidth-16QAM



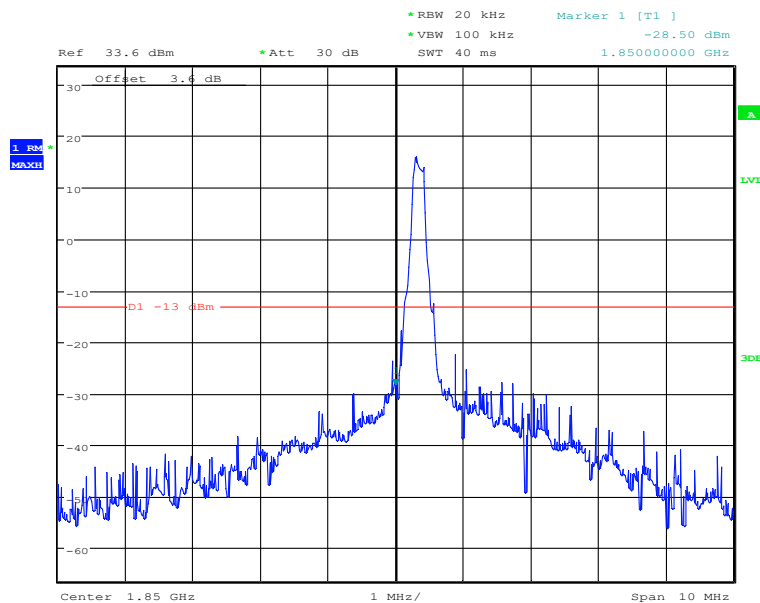
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Band25-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

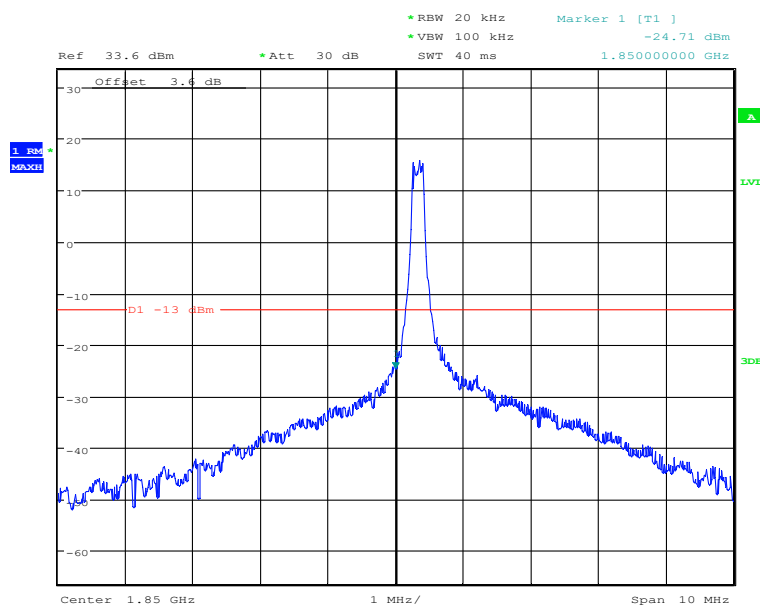
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:09:48

Band25-Low Channel-5MHz Bandwidth-16QAM



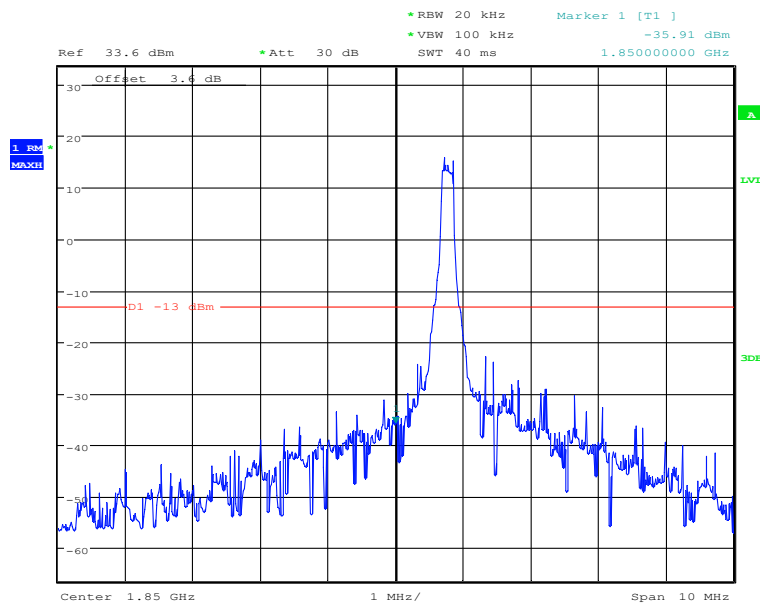
Date: 3.SEP.2020 04:08:51

Band25-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

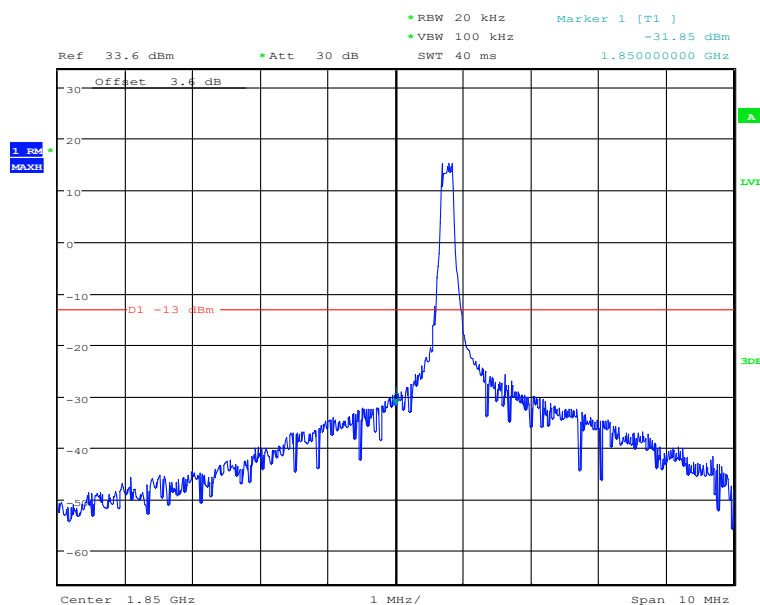
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:16:38

Band25-Low Channel-10MHz Bandwidth-16QAM



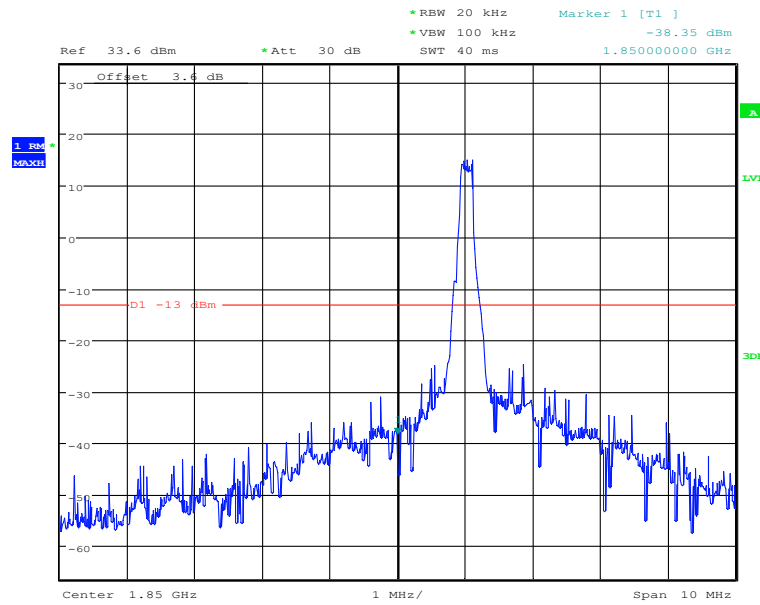
Date: 3.SEP.2020 04:16:01

Band25-Low Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

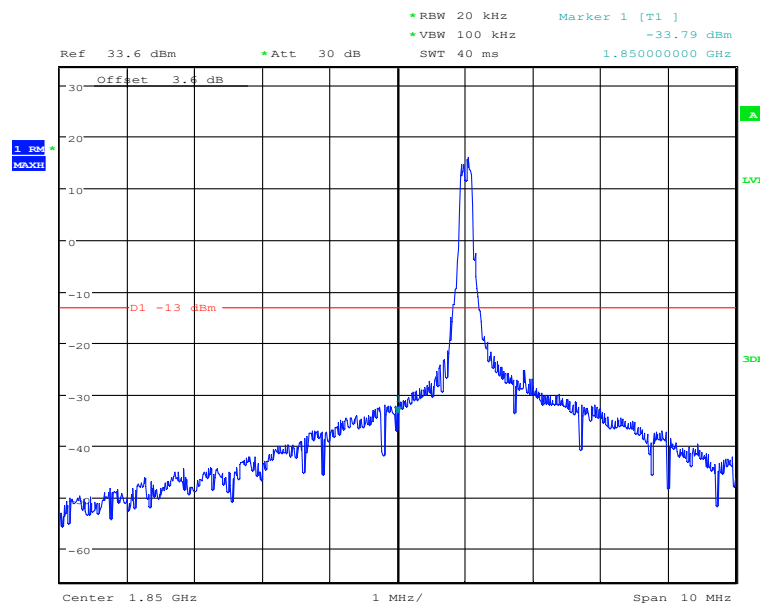
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:24:03

Band25-Low Channel-15MHz Bandwidth-16QAM



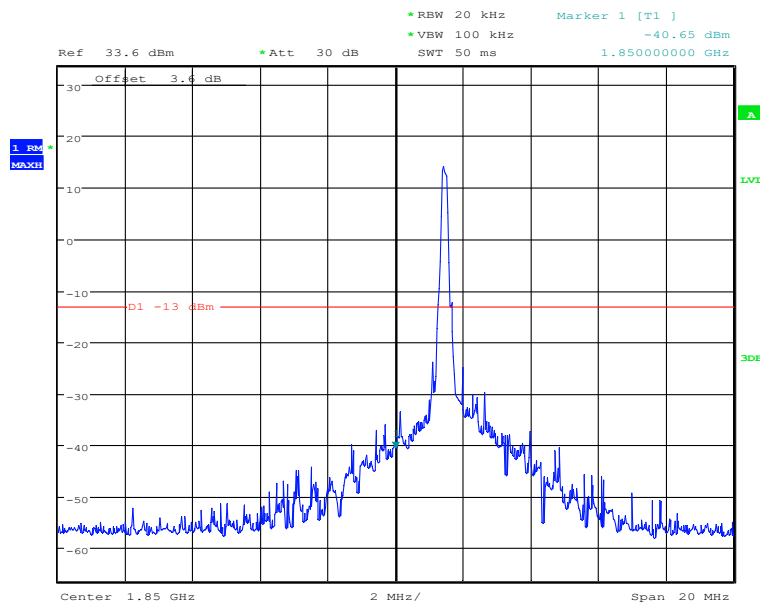
Date: 3.SEP.2020 04:22:54

Band25-Low Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

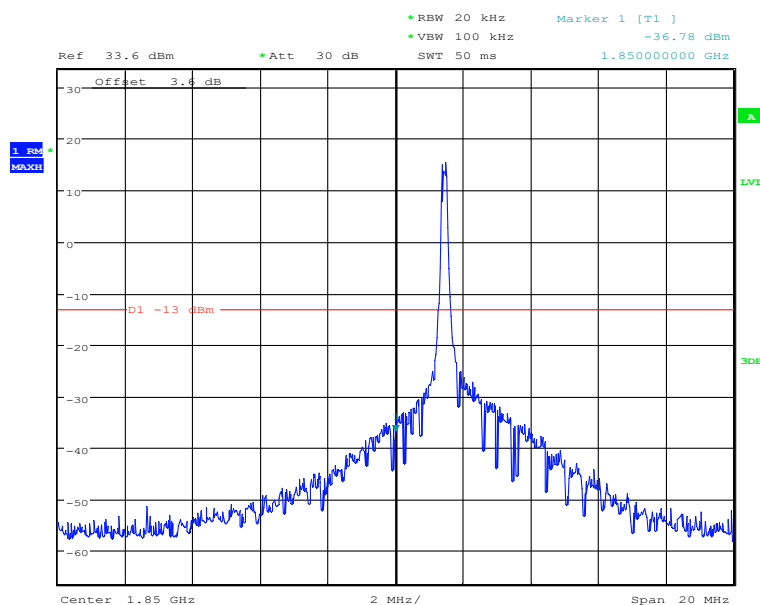
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 04:36:10

Band25-Low Channel-20MHz Bandwidth-16QAM



Date: 3.SEP.2020 04:34:20

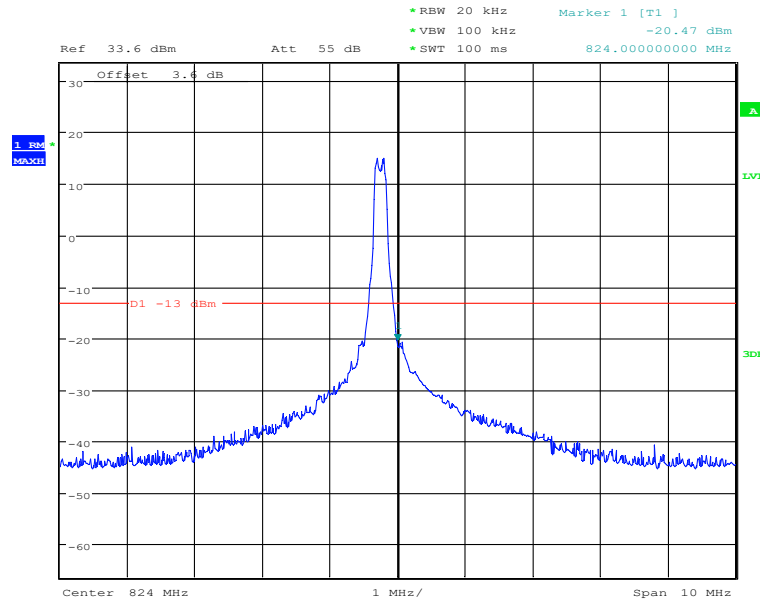
Band25-Low Channel-20MHz Bandwidth-QPSK

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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

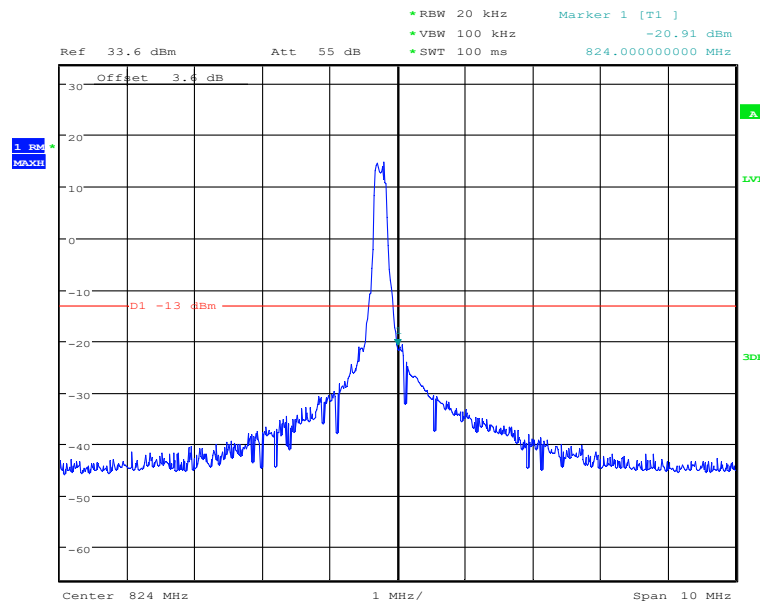
Report No.: I20W00014-WWAN_Rev2

5.6.14 CAT-M Band26 Edge Results Part(824MHz-849MHz)



Date: 3.SEP.2020 21:26:53

Band26-High Channel-1.4MHz Bandwidth-16QAM



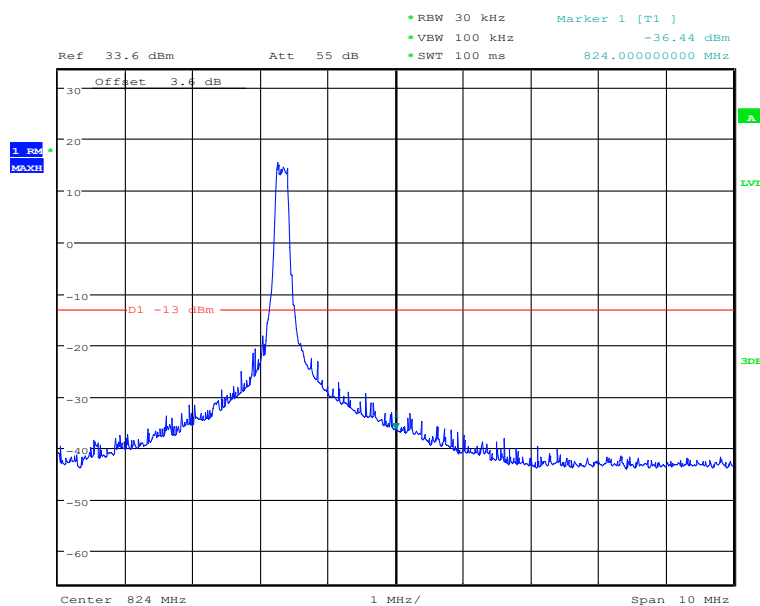
Date: 3.SEP.2020 21:28:18

Band26-High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

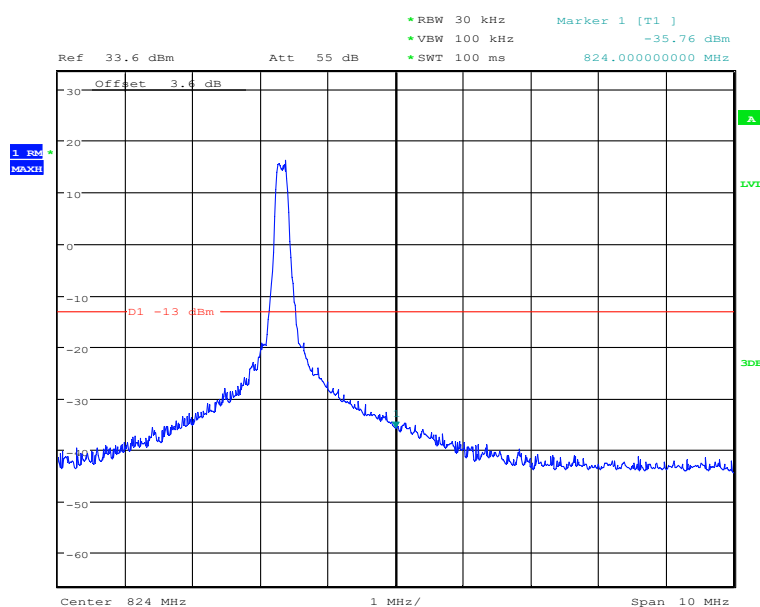
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 21:33:35

Band26-High Channel-3MHz Bandwidth-16QAM



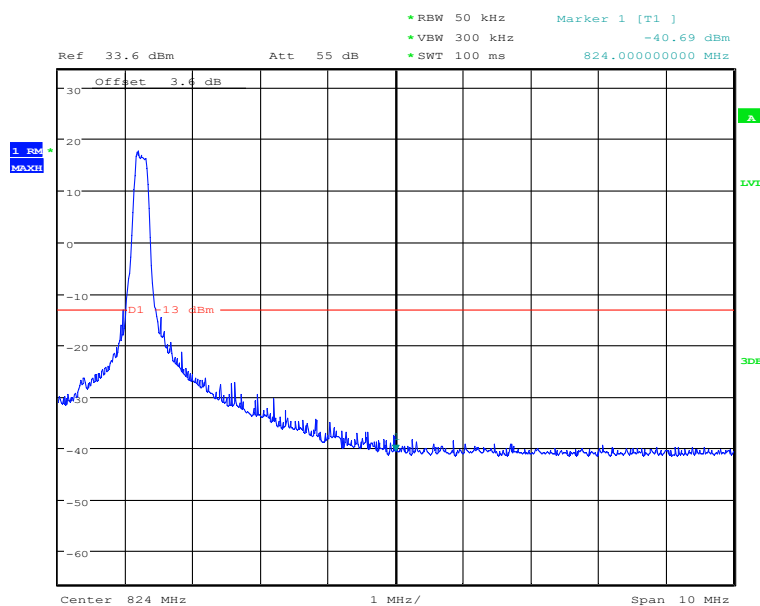
Date: 3.SEP.2020 21:34:19

Band26-High Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

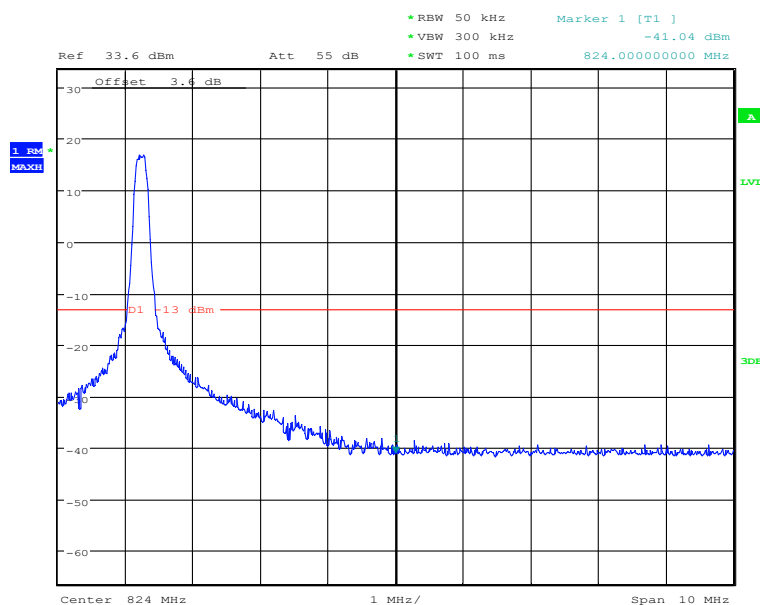
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 21:39:45

Band26-High Channel-5MHz Bandwidth-16QAM



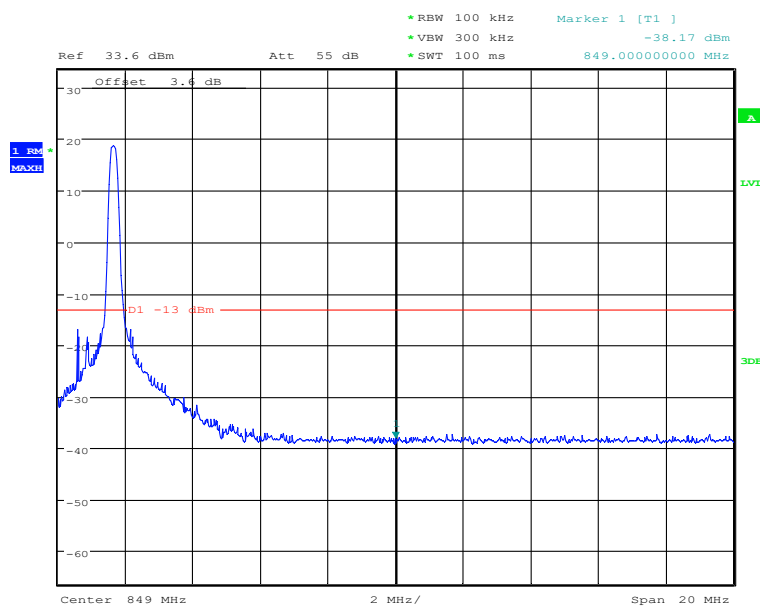
Date: 3.SEP.2020 21:40:21

Band26-High Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

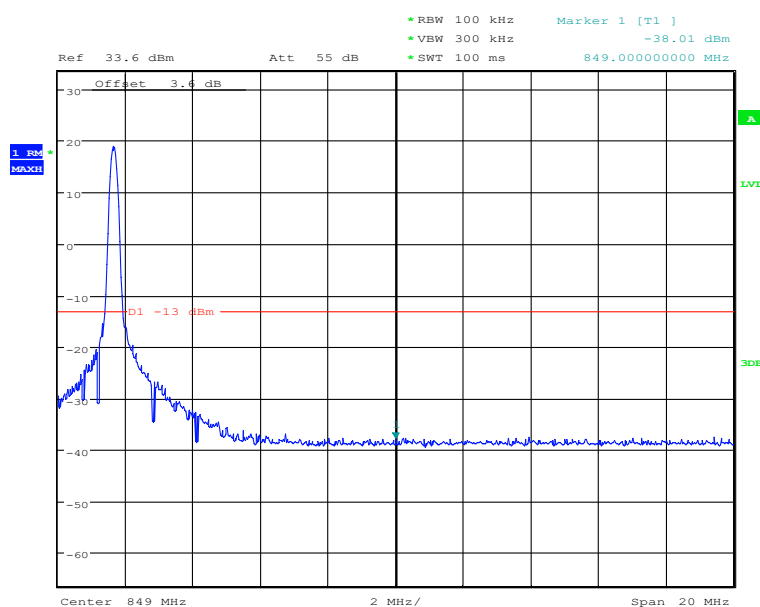
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 20:47:10

Band26-High Channel-10MHz Bandwidth-16QAM



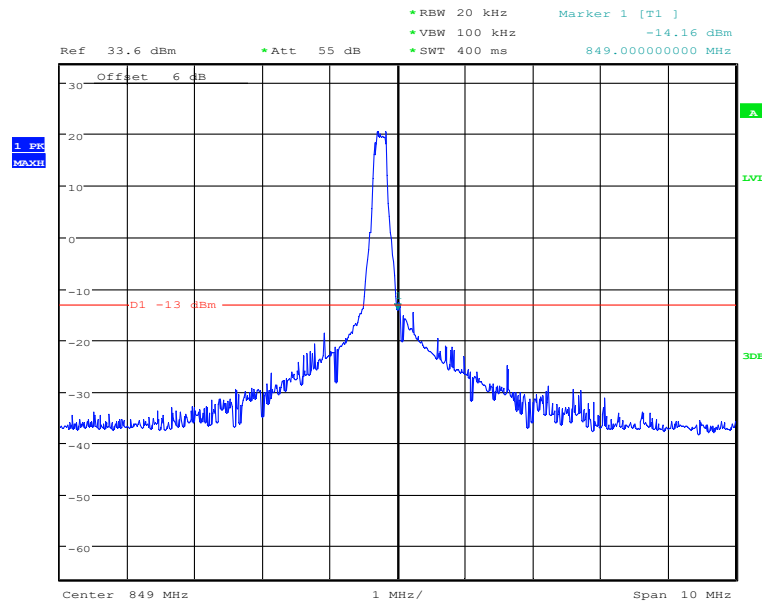
Date: 3.SEP.2020 20:48:59

Band26-High Channel-10MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

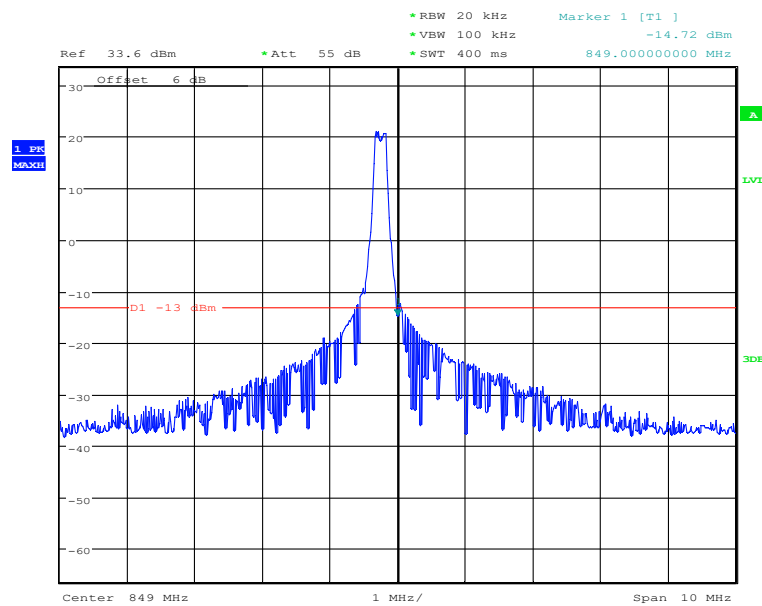
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 05:40:43

Band26-Low Channel-1.4MHz Bandwidth-16QAM



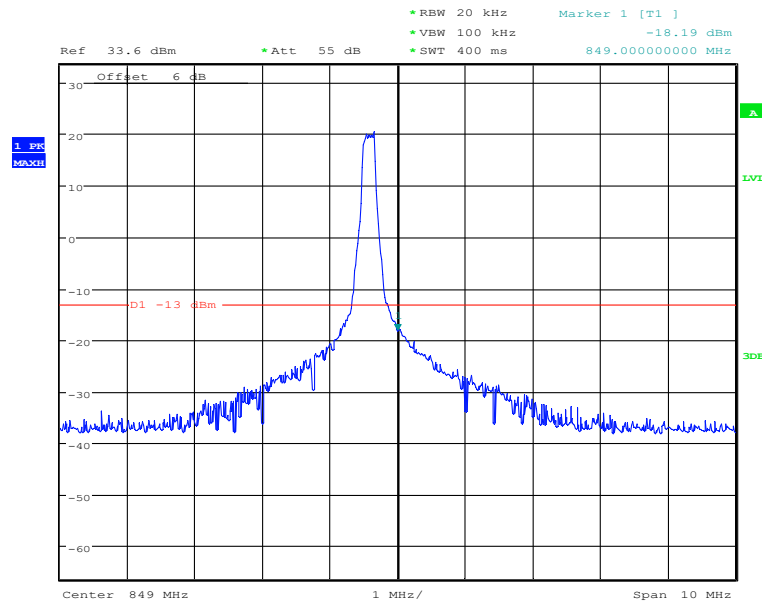
Date: 4.SEP.2020 05:37:04

Band26-Low Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

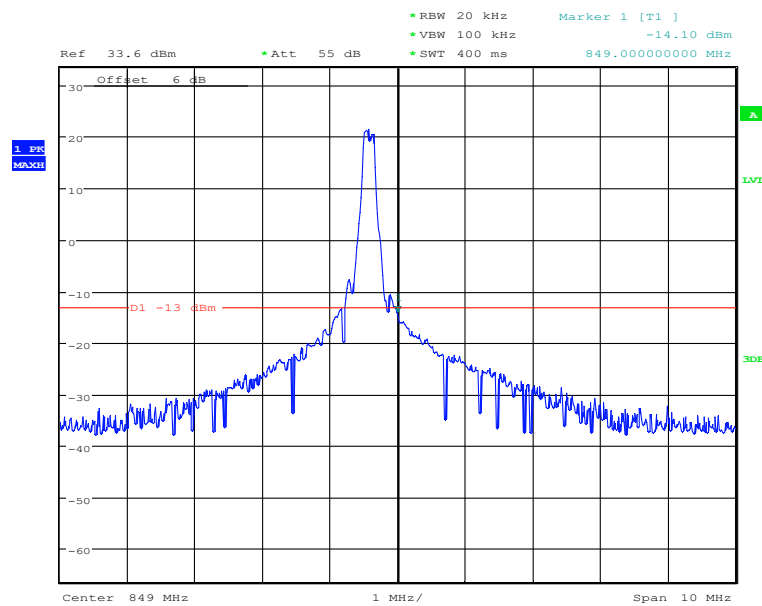
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 05:46:02

Band26-Low Channel-3MHz Bandwidth-16QAM



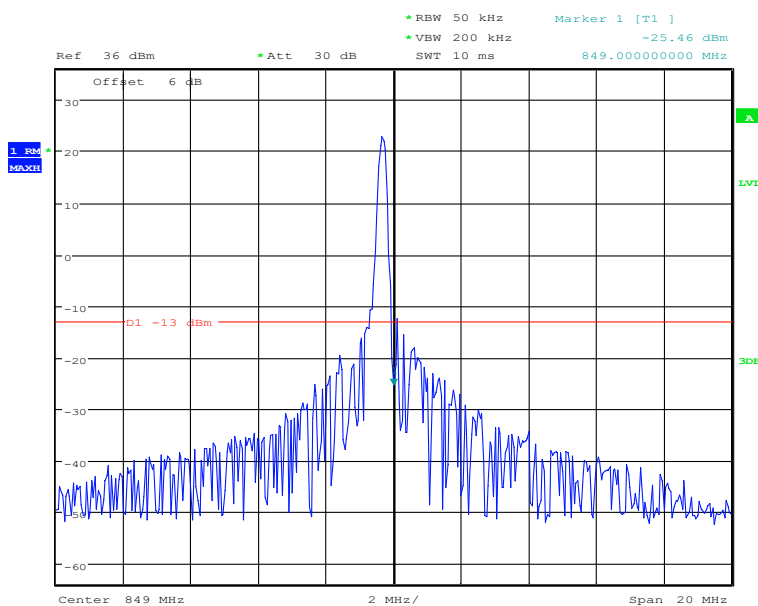
Date: 4.SEP.2020 05:44:39

Band26-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

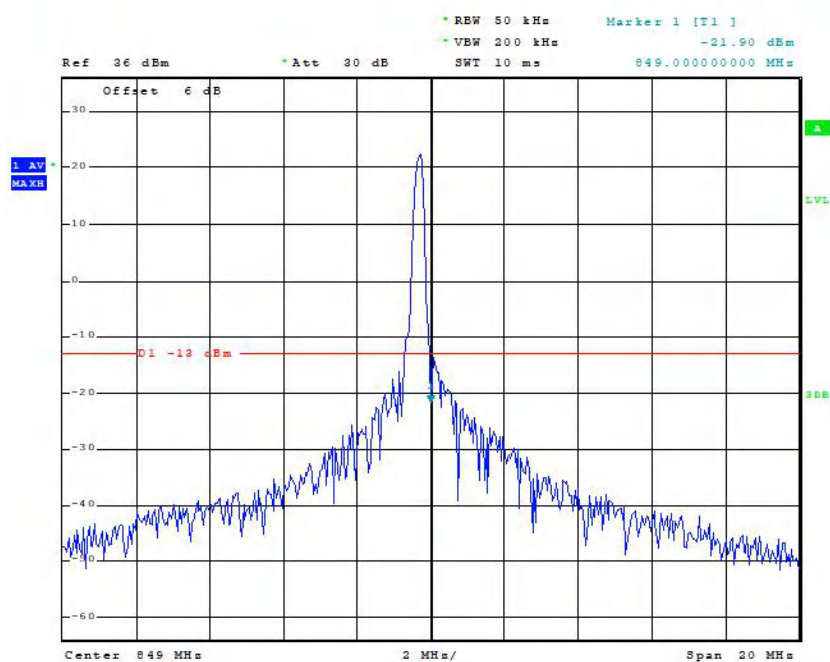
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 05:53:58

Band26-Low Channel-5MHz Bandwidth-16QAM

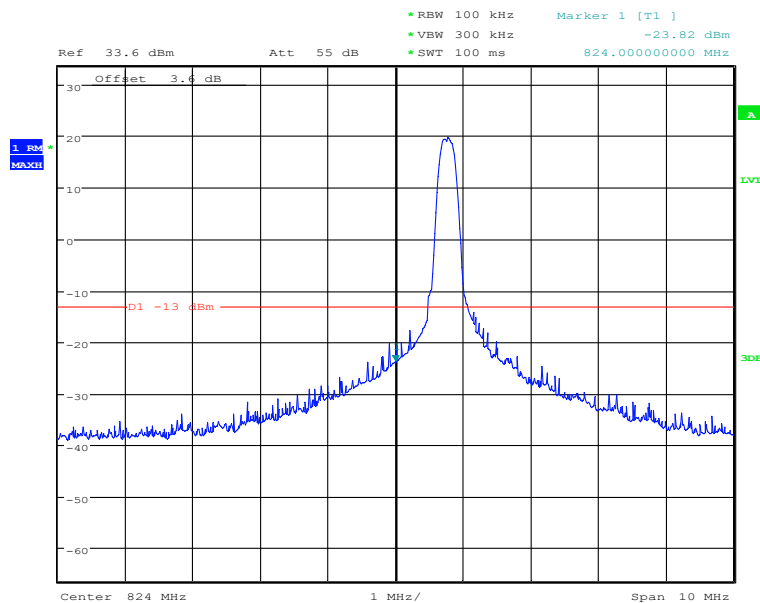


Band26-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

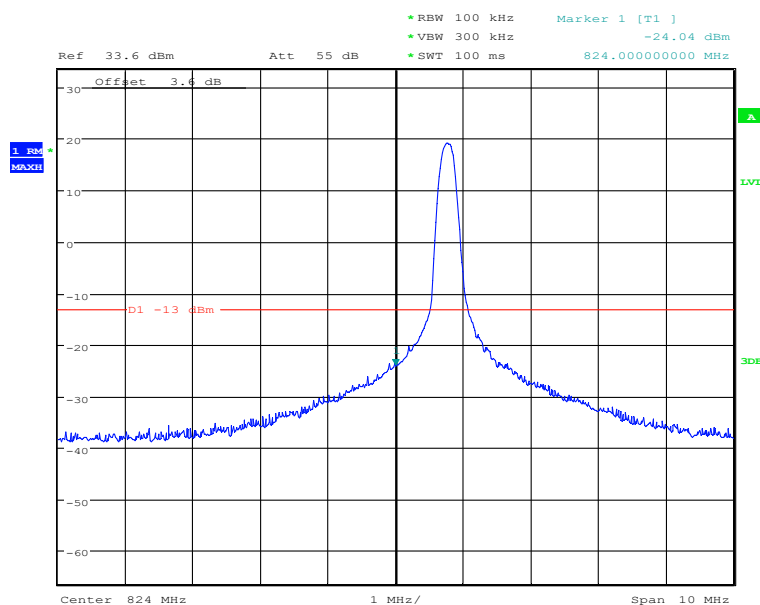
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 18:44:11

Band26-Low Channel-10MHz Bandwidth-16QAM



Date: 3.SEP.2020 18:43:03

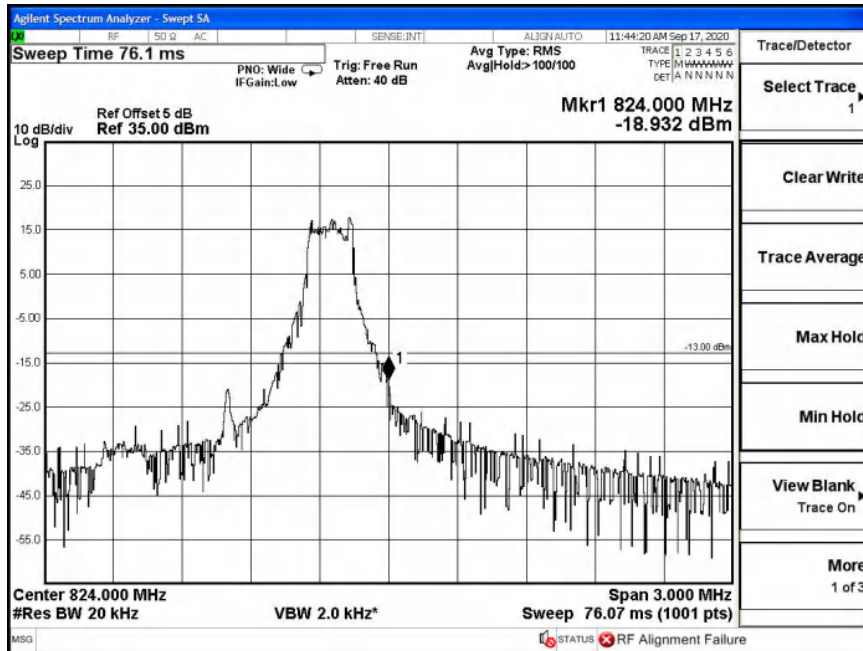
Band26-Low Channel-10MHz Bandwidth-QPSK

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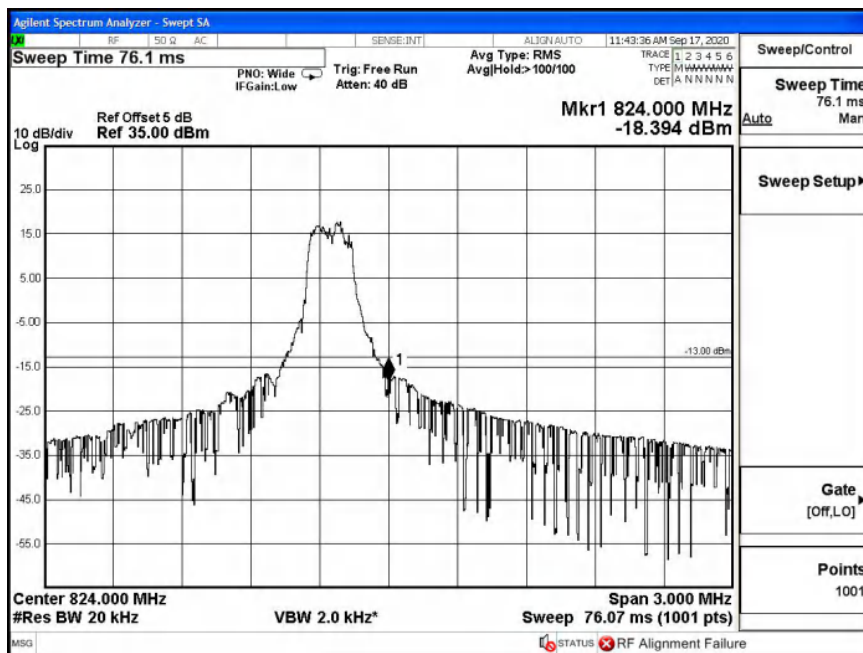
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2

Part(814MHz-824MHz)



Band26-High Channel-1.4MHz Bandwidth-16QAM

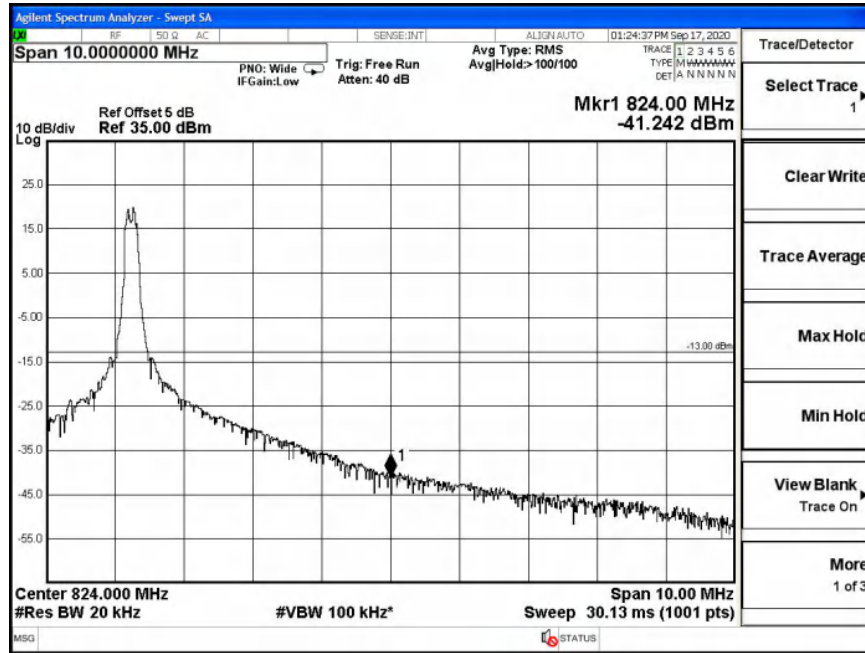


Band26-High Channel-1.4MHz Bandwidth-QPSK

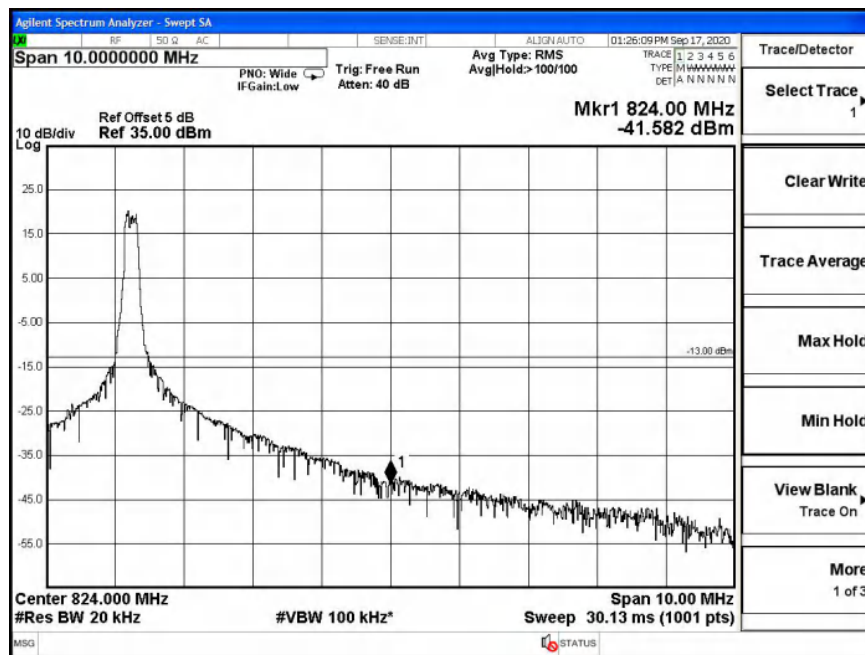
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Report No.: I20W00014-WWAN_Rev2



Band26-High Channel-3MHz Bandwidth-16QAM

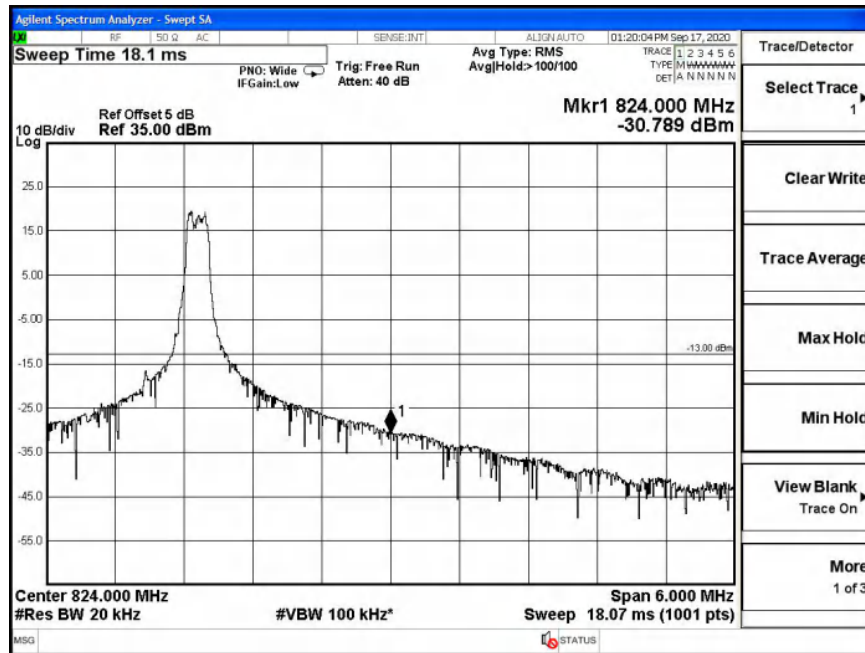


Band26-High Channel-3MHz Bandwidth-QPSK

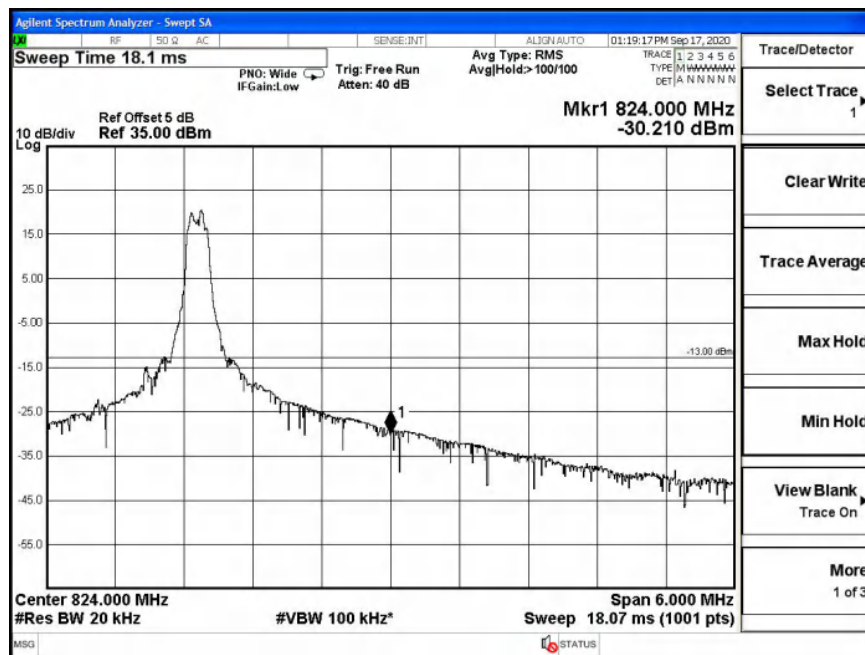
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Report No.: I20W00014-WWAN_Rev2



Band26-High Channel-5MHz Bandwidth-16QAM

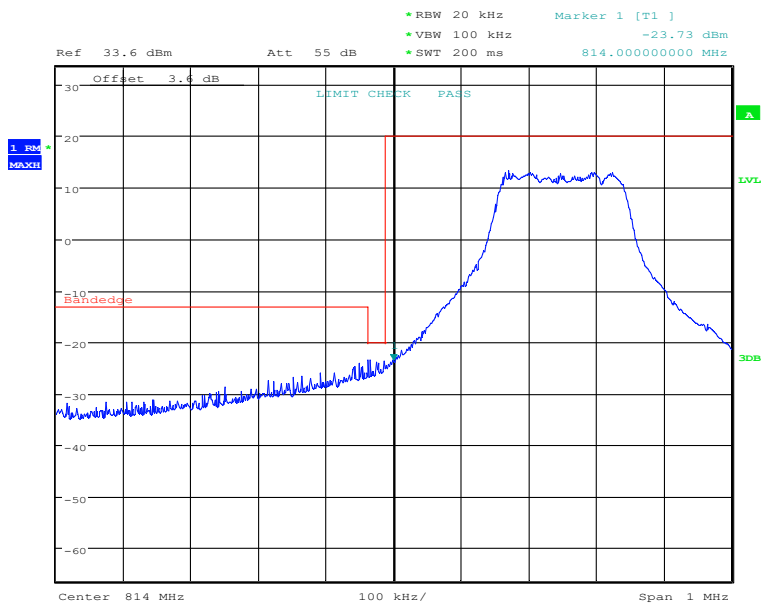


Band26-High Channel-5MHz Bandwidth-QPSK

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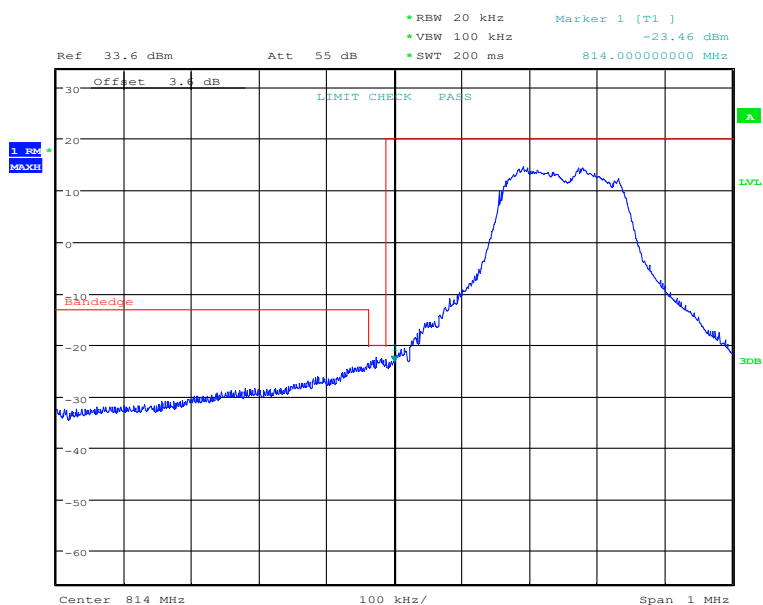
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 22:02:47

Band26-Low Channel-1.4MHz Bandwidth-16QAM



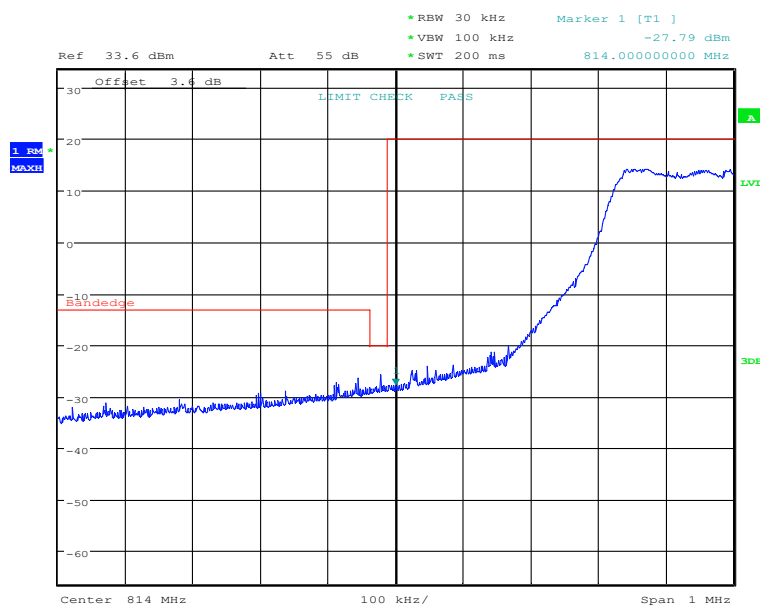
Date: 3.SEP.2020 22:01:30

Band26-Low Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

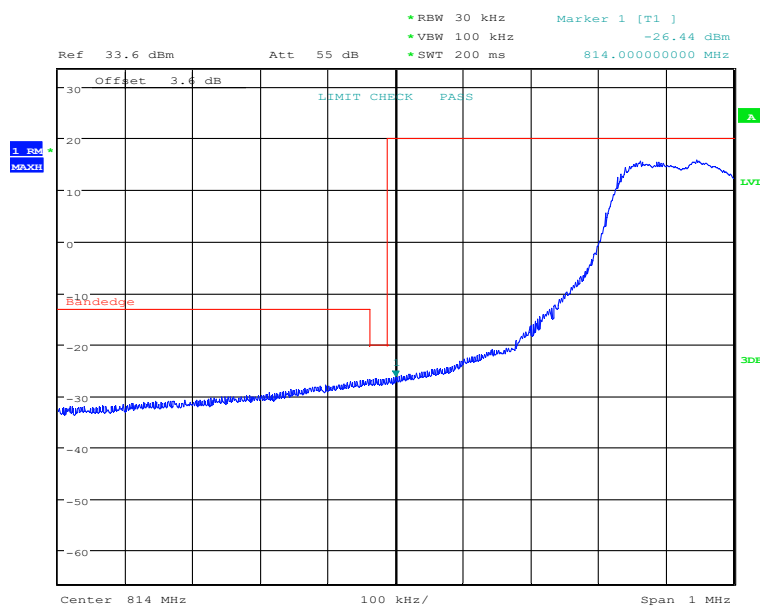
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 22:07:21

Band26-Low Channel-3MHz Bandwidth-16QAM



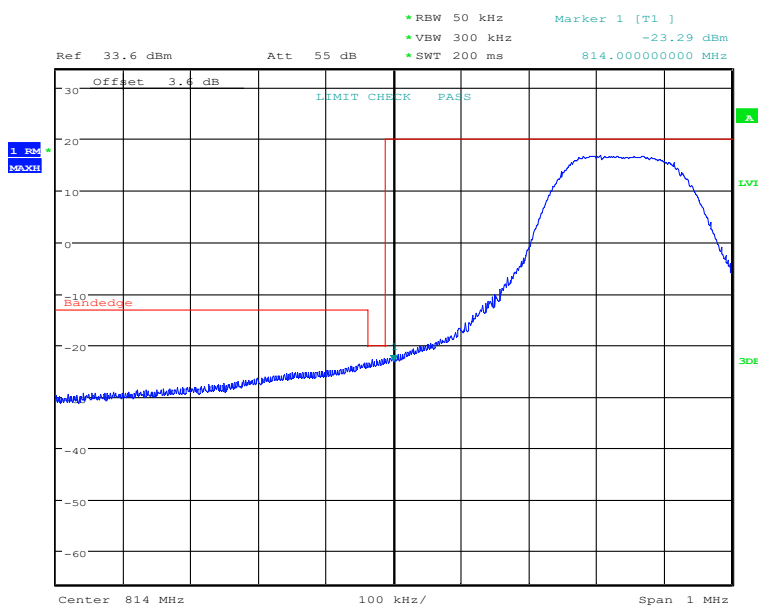
Date: 3.SEP.2020 22:06:35

Band26-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

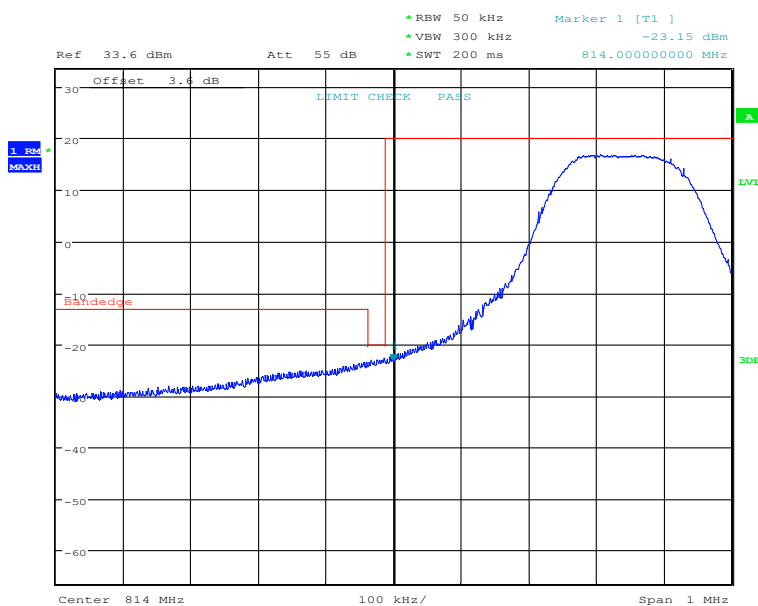
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 22:14:27

Band26-Low Channel-5MHz Bandwidth-16QAM



Date: 3.SEP.2020 22:10:06

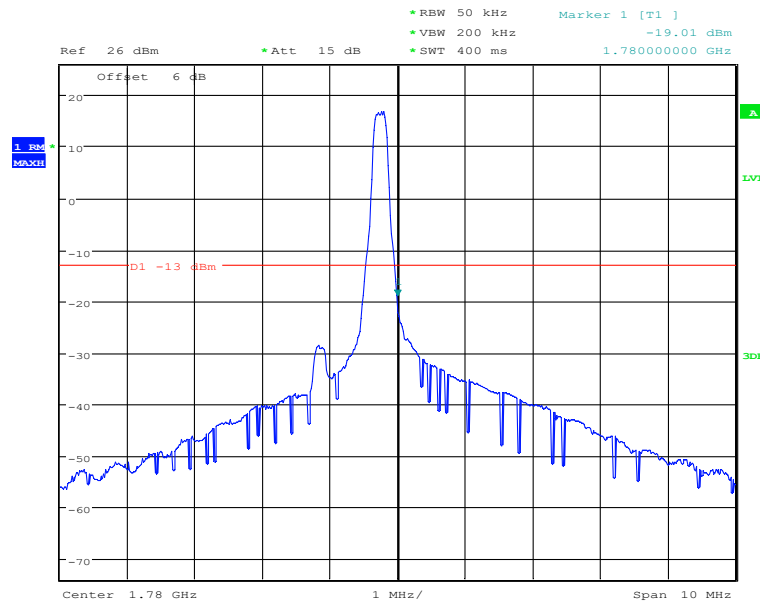
Band26-Low Channel-5MHz Bandwidth-QPSK

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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

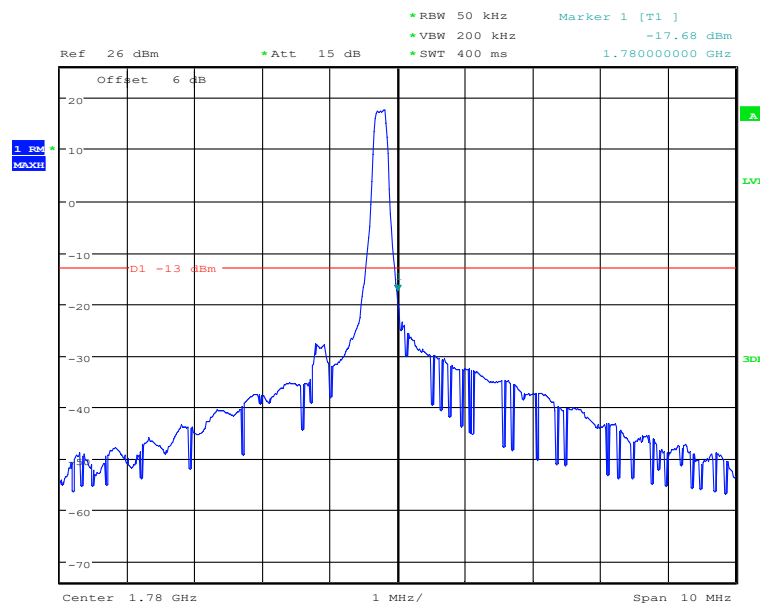
Report No.: I20W00014-WWAN_Rev2

5.6.15 CAT-M Band66 Edge Results



Date: 4.SEP.2020 03:41:40

Band66-High Channel-1.4MHz Bandwidth-16QAM



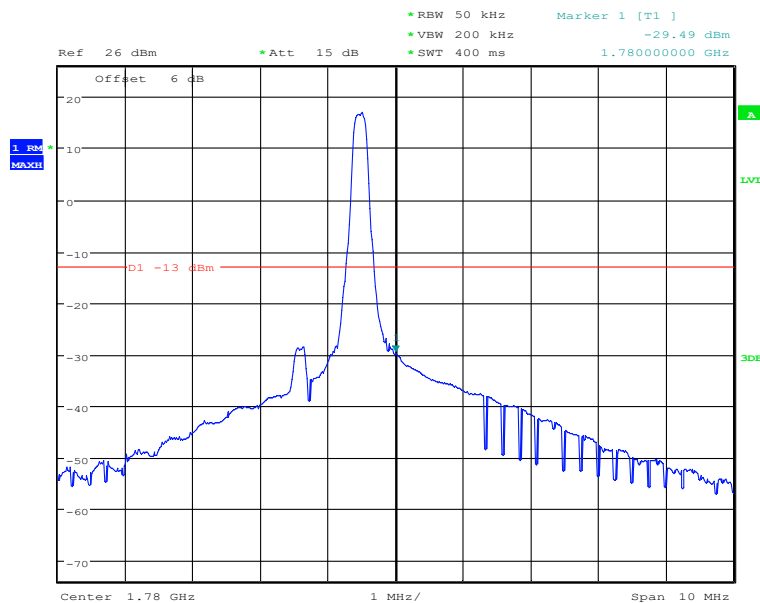
Date: 4.SEP.2020 03:42:55

Band66-High Channel-1.4MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

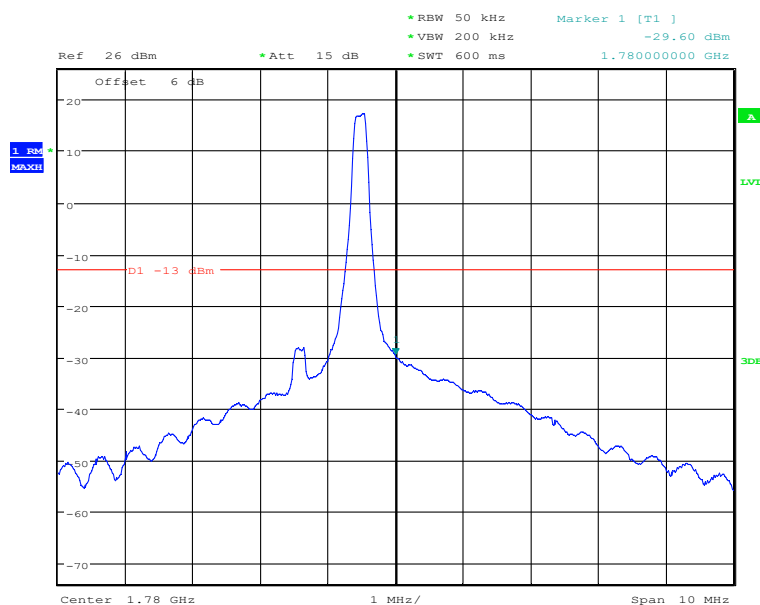
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 03:47:31

Band66-High Channel-3MHz Bandwidth-16QAM



Date: 4.SEP.2020 03:48:17

Band66-High Channel-3MHz Bandwidth-QPSK

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[illegible]

Ref 25 dBm *Att 15 dB

*RBW 50 kHz *VEW 200 kHz *SWT 600 ms

Marker 1 [T1] -27.23 dBm 1.780000000 GHz

Offset 6 dB

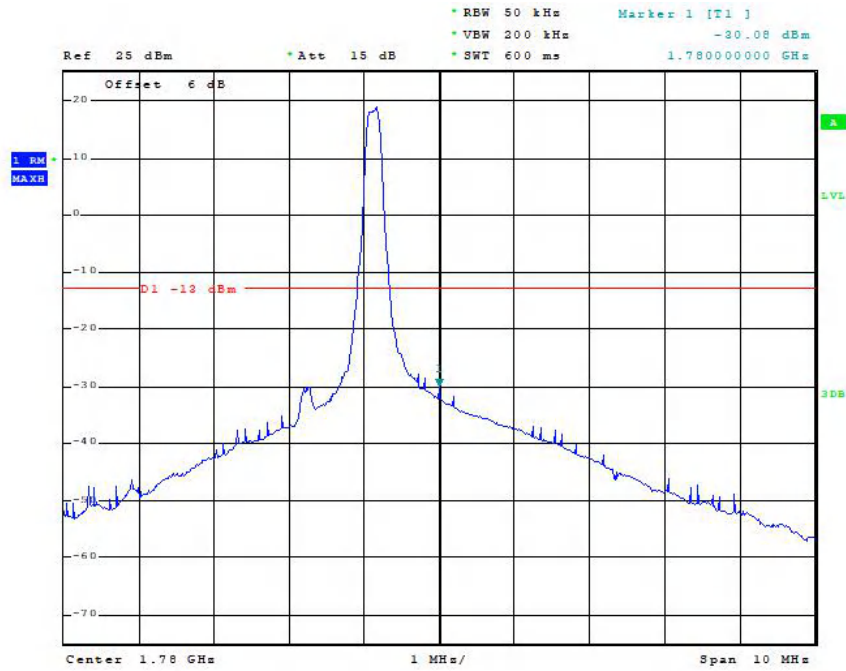
1.78 GHz

D1 -13 dBm

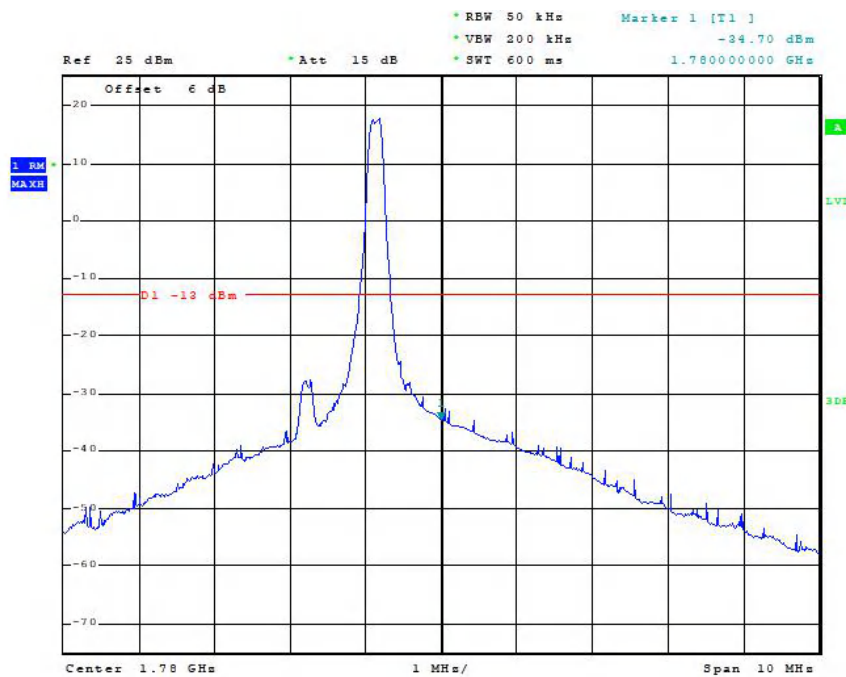
Center 1.78 GHz 1 MHz/ Span 10 MHz

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Band66-High Channel-10MHz Bandwidth-16QAM

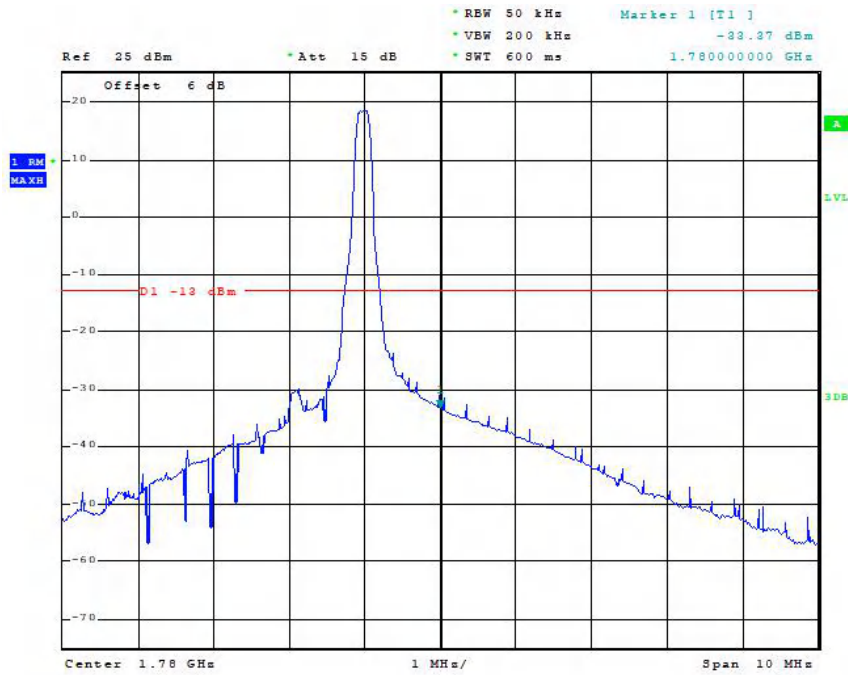


Band66-High Channel-10MHz Bandwidth-QPSK

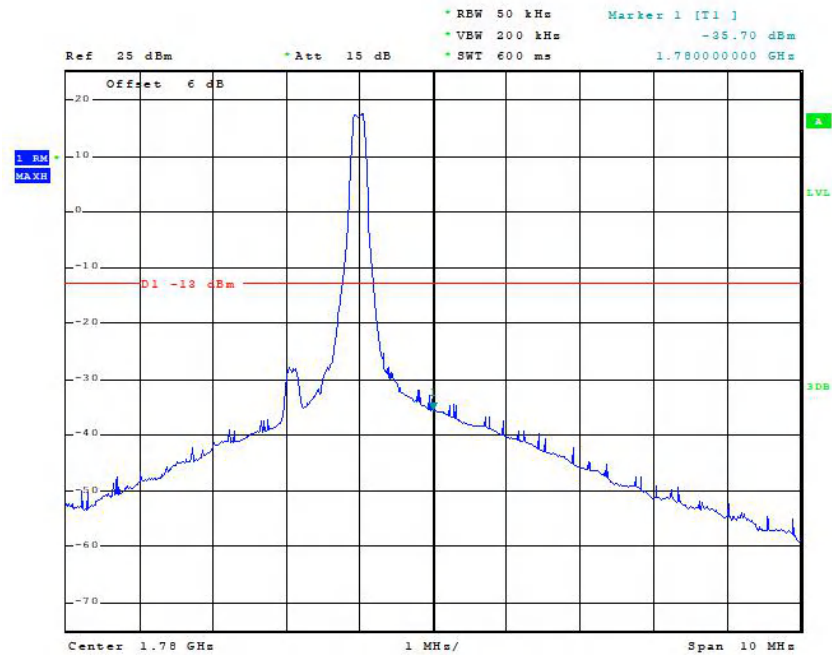
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Band66-High Channel-15MHz Bandwidth-16QAM

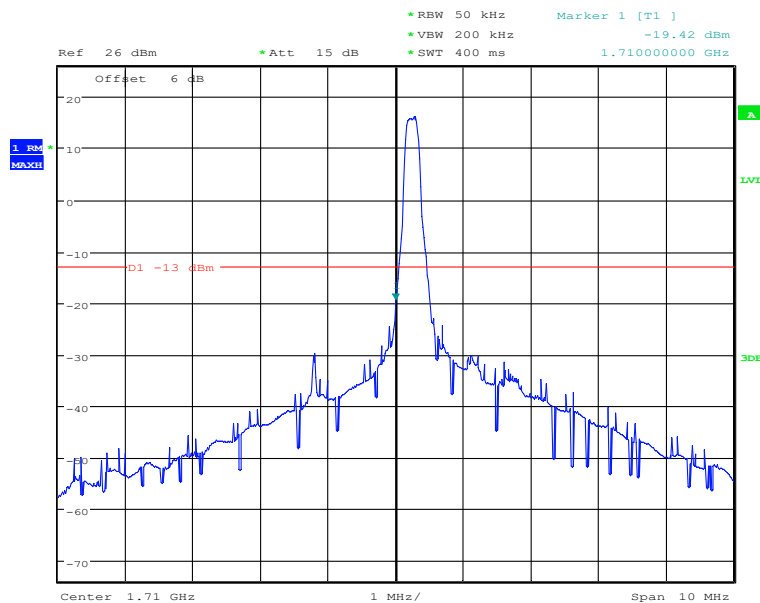


Band66-High Channel-15MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

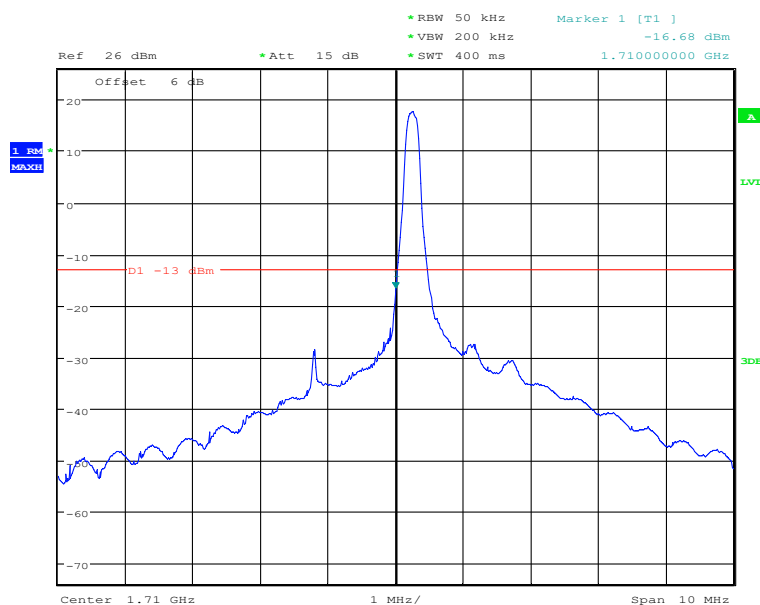
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 03:38:49

Band66-Low Channel-1.4MHz Bandwidth-16QAM



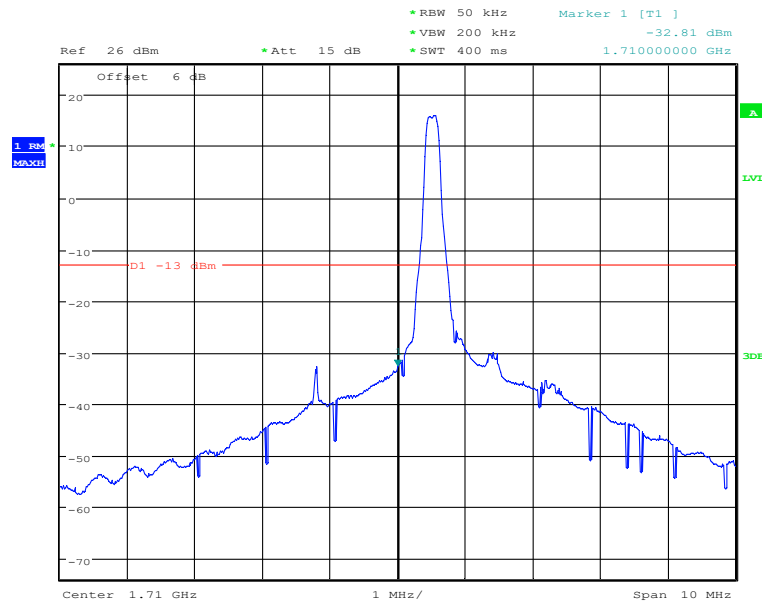
Date: 4.SEP.2020 03:38:02

Band66-Low Channel-1.4MHz Bandwidth-QPSK

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Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 03:45:45

Band66-Low Channel-3MHz Bandwidth-16QAM



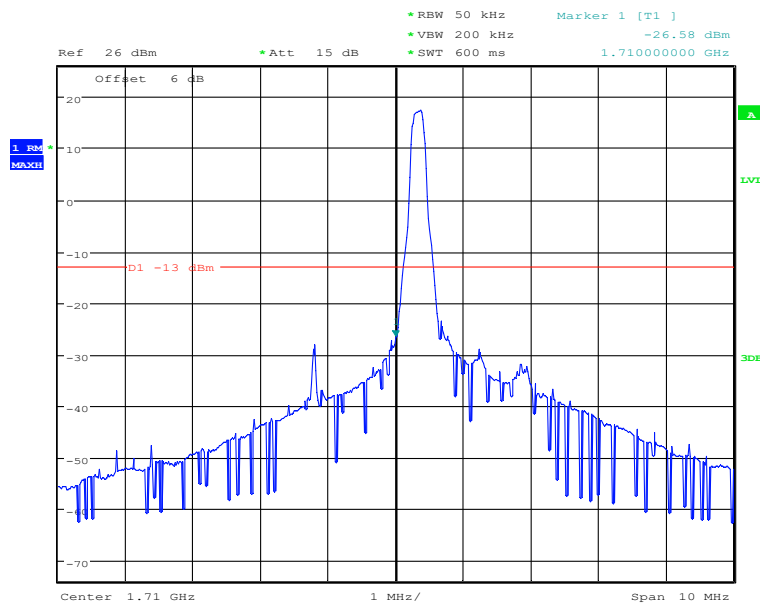
Date: 4.SEP.2020 03:45:14

Band66-Low Channel-3MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

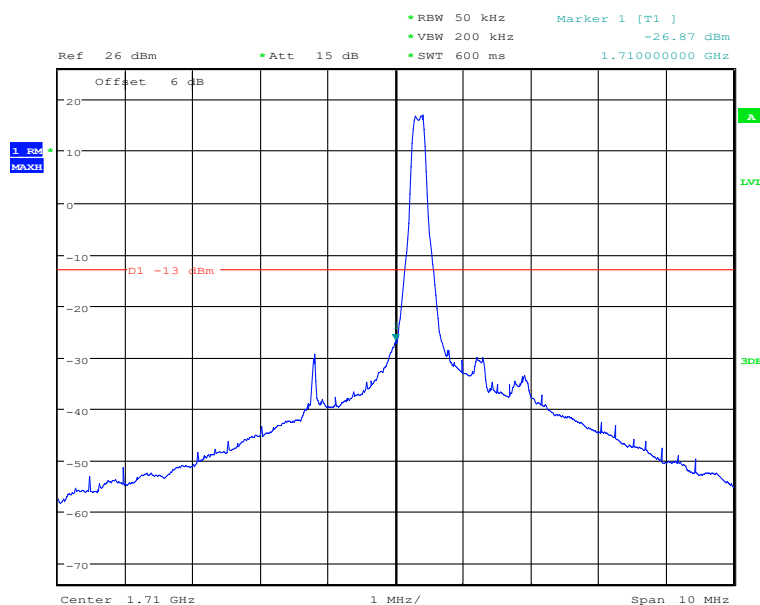
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 03:50:51

Band66-Low Channel-5MHz Bandwidth-16QAM



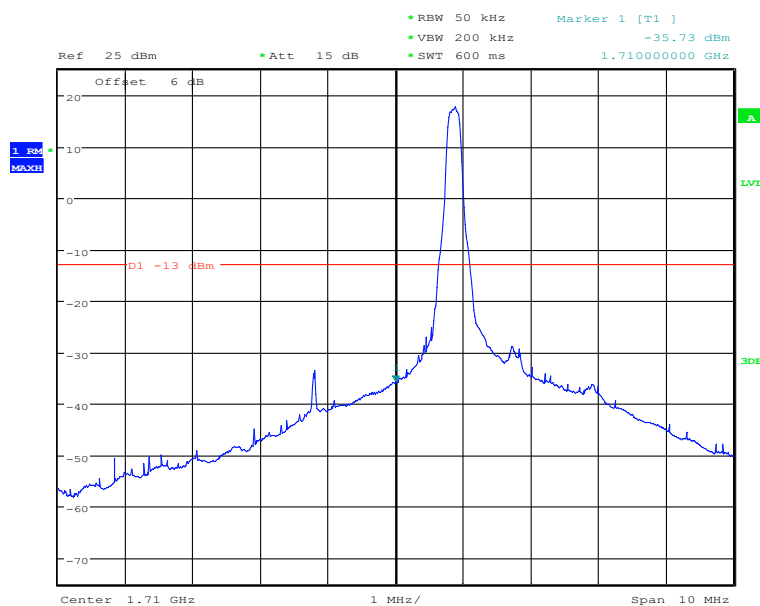
Date: 4.SEP.2020 03:49:56

Band66-Low Channel-5MHz Bandwidth-QPSK

Chongqing Academy of Information and Communication Technology

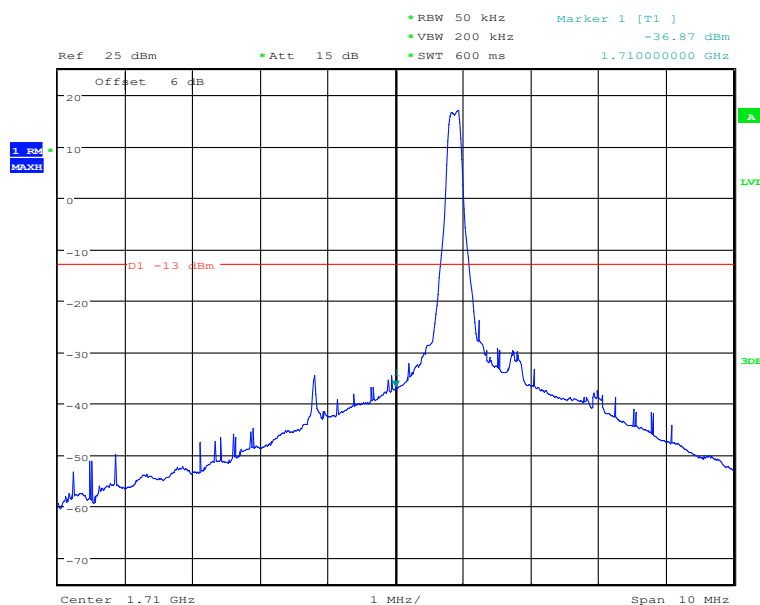
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 03:55:48

Band66-Low Channel-10MHz Bandwidth-16QAM



Date: 4.SEP.2020 03:56:50

Band66-Low Channel-10MHz Bandwidth-QPSK

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Ref 25 dBm * Att 15 dB * RBW 50 kHz Marker 1 [T1] -36.89 dBm
 * VBW 200 kHz * SWT 600 ms 1.710000000 GHz

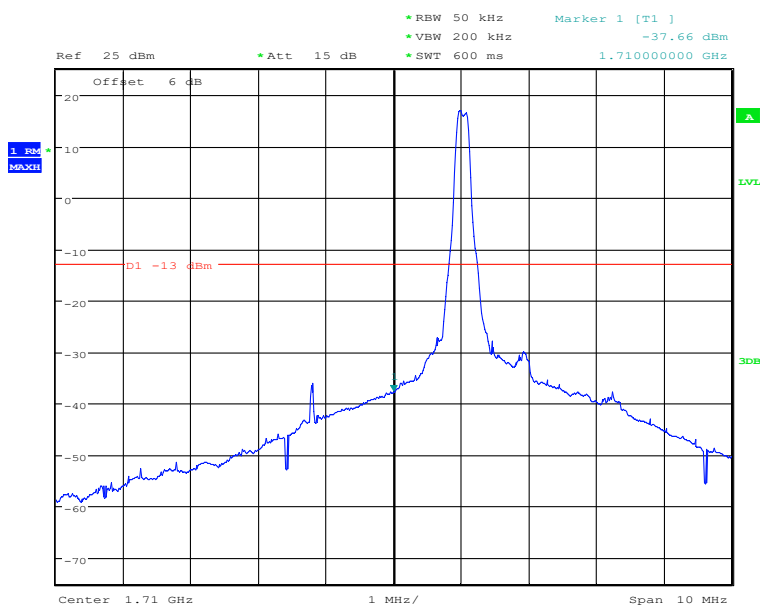
Offset 6 dB

1.71 GHz

D1 -13 dBm

Center 1.71 GHz 1 MHz/ Span 10 MHz

Band66-Low Channel-15MHz Bandwidth-16QAM



Band66-Low Channel-15MHz Bandwidth-QPSK

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Report No.: I20W00014-WWAN_Rev2

5.7 Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54,90.213
DUT Serial Number:	866884045622016
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

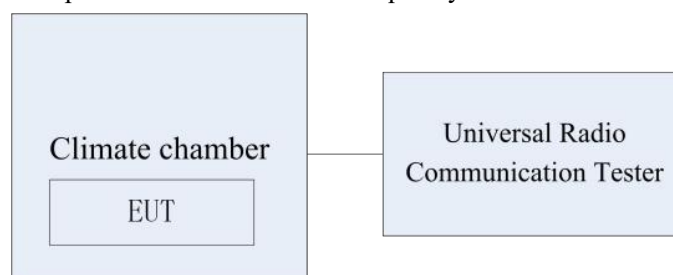
Limit	
Frequency deviation [ppm]	±2.5

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.: I20W00014-WWAN_Rev2

5.7.1 NB-IoT Band Frequency Stability over Temperature Variation Results

Band	Frequency	Offset	Temperature[°C]								
			-30	-20	-10	0	10	20	30	40	50
2	1880 MHz	Hz	2.26	13.22	23.48	19.68	11.95	-1.83	-2.62	-14.81	-17.57
		ppm	0.001	0.007	0.012	0.010	0.006	-0.001	-0.001	-0.008	-0.009
4	1732.5 MHz	Hz	-1.49	9.81	12.88	15.57	11.48	-2.74	-4.23	-17.63	-22.17
		ppm	-0.001	0.006	0.007	0.009	0.007	-0.002	-0.002	-0.010	-0.013
5	836.5 MHz	Hz	4.63	9.79	11.08	11.10	7.77	2.05	-7.97	-5.68	-11.64
		ppm	0.005	0.012	0.013	0.013	0.009	0.002	-0.009	-0.007	-0.014
12	707.5 MHz	Hz	5.80	11.01	12.54	15.05	11.04	6.35	1.09	-4.05	-4.62
		ppm	0.008	0.015	0.018	0.021	0.016	0.009	0.001	-0.006	-0.006
13	782 MHz	Hz	2.83	7.03	8.36	8.05	8.19	0.63	-4.13	-8.68	-11.61
		ppm	0.004	0.009	0.010	0.010	0.010	0.008	-0.005	-0.011	-0.015
25	1882.5 MHz	Hz	7.61	-9.52	-6.02	9.02	-4.03	5.15	8.91	-12.07	-6.15
		ppm	0.010	-0.012	-0.007	0.011	-0.005	0.006	0.011	-0.015	-0.008
66	1745 MHz	Hz	9.13	-5.46	6.02	-8.15	-7.11	2.27	-8.69	-12.03	-15.47
		ppm	0.005	-0.003	0.003	-0.005	-0.004	0.001	-0.005	-0.007	-0.009

Report No.: I20W00014-WWAN_Rev2

5.7.2 CAT-M Band Frequency Stability over Temperature Variation Results

Band	Modulation	Frequency	Offset	Temperature[°C]								
				-30	-20	-10	0	10	20	30	40	50
2	QPSK	1880 MHz	Hz	6.37	-2.13	-8.35	-2.10	-2.82	-2.05	5.20	17.50	2.45
			ppm	0.003	-0.001	-0.004	-0.001	-0.001	-0.001	0.003	0.009	0.001
	16QAM		Hz	-2.85	-7.19	-8.06	-3.57	-1.78	2.91	13.64	17.33	-1.23
			ppm	-0.001	-0.004	-0.004	-0.002	-0.001	0.001	0.007	0.009	-0.001
4	QPSK	1732.5 MHz	Hz	3.70	-4.81	-7.88	-3.53	4.82	1.33	5.81	10.25	9.16
			ppm	0.002	-0.003	-0.004	-0.002	0.003	0.001	0.003	0.006	0.005
	16QAM		Hz	6.29	-3.05	-2.98	-4.89	1.25	3.58	8.66	12.93	8.26
			ppm	0.004	-0.002	-0.002	-0.003	0.001	0.002	0.005	0.007	0.005
5	QPSK	836.5 MHz	Hz	-7.30	-11.85	-16.05	-15.35	-13.05	-7.62	-3.70	3.67	3.71
			ppm	-0.009	-0.014	-0.019	-0.018	-0.016	-0.009	-0.004	0.004	0.0044
	16QAM		Hz	-4.33	-12.17	-15.56	-13.22	-9.53	-7.34	-0.81	6.71	5.36
			ppm	-0.005	-0.014	-0.019	-0.016	-0.011	-0.009	-0.001	0.008	0.006
12	QPSK	707.5 MHz	Hz	-7.41	-13.98	-13.37	-12.79	-9.87	-4.09	-1.05	6.03	10.34
			ppm	-0.010	-0.020	-0.019	-0.018	-0.014	-0.006	-0.001	0.008	0.015
	16QAM		Hz	-5.78	-14.61	-15.95	-13.85	-8.07	-5.16	2.70	9.76	9.31
			ppm	-0.008	-0.021	-0.022	-0.019	-0.011	-0.007	0.004	0.014	0.013
13	QPSK	782 MHz	Hz	-9.32	-11.66	-14.25	-15.10	-8.23	-6.04	2.04	7.37	7.94
			ppm	-0.012	-0.015	-0.018	-0.019	-0.010	-0.008	0.003	0.009	0.010
	16QAM		Hz	-11.03	-10.30	-14.84	-14.44	-7.80	-2.16	2.48	7.63	10.29
			ppm	-0.014	-0.013	-0.019	-0.018	-0.010	-0.003	0.003	0.010	0.013
25	QPSK	1882.5 MHz	Hz	-11.05	-11.55	-16.34	-14.19	-10.61	-7.71	6.87	3.33	8.63
			ppm	-0.006	-0.006	-0.009	-0.007	-0.006	-0.004	0.004	0.002	0.004
	16QAM		Hz	-10.85	-10.42	-15.63	-14.92	-8.06	-3.50	7.62	3.66	4.35
			ppm	-0.006	-0.005	-0.008	-0.008	-0.004	-0.002	0.004	0.002	0.002
26	QPSK	836.5	Hz	-5.52	-14.06	-17.31	-14.72	-8.81	-10.50	4.62	4.36	5.31

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(824-849 MHz)		MHz	ppm	-0.006	-0.017	-0.021	-0.017	-0.010	-0.012	0.005	0.005	0.006
	16QAM		Hz	-7.58	-11.02	-15.63	-13.33	-8.18	-9.26	5.47	4.67	7.64
			ppm	-0.009	-0.013	-0.019	-0.016	-0.010	-0.011	0.006	0.005	0.009
26 (814-824 MHz)	QPSK	819 MHz	Hz	-4.95	-14.90	-15.66	-16.28	-7.95	-9.32	3.66	2.37	5.61
			ppm	-0.006	-0.018	-0.016	-0.019	-0.009	-0.011	0.004	0.002	0.007
	16QAM		Hz	-5.25	-13.98	-13.99	-13.40	-5.76	-6.14	7.64	3.49	9.46
			ppm	-0.006	-0.017	-0.017	-0.016	-0.007	-0.007	0.009	0.004	0.011
66	QPSK	1745 MHz	Hz	3.59	-10.02	-7.69	-5.03	7.78	9.68	-12.75	-10.20	4.16
			ppm	0.002	-0.006	-0.004	-0.003	0.004	0.005	-0.007	-0.006	0.002
	16QAM		Hz	9.62	-8.14	-6.35	7.61	-8.92	-13.59	-11.75	6.06	-8.12
			ppm	0.005	-0.005	-0.004	0.004	-0.005	-0.008	-0.007	0.003	-0.005

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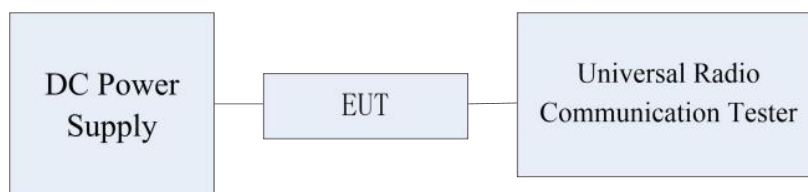
Report No.: I20W00014-WWAN_Rev2**5.8 Frequency Stability over Voltage Variation**

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54,90.213
DUT Serial Number:	866884045622016
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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Report No.: I20W00014-WWAN_Rev2

5.8.1 NB-IoT Band Frequency Stability over Voltage Variation Results

Band	Frequency	Offset	Voltage (V)		
			2.7	3.3	4.8
2	1880 MHz	Hz	-1.83	2.14	8.03
		ppm	-0.001	0.001	0.004
4	1732.5 MHz	Hz	-3.62	3.33	-6.26
		ppm	-0.002	0.002	-0.003
5	836.5 MHz	Hz	1.62	-6.8	8.8
		ppm	0.002	-0.008	0.010
12	707.5 MHz	Hz	9.31	-2.4	-4.5
		ppm	0.013	-0.003	-0.006
13	782 MHz	Hz	-5.6	-1.10	-1.14
		ppm	-0.007	-0.001	-0.001
25	1882.5 MHz	Hz	-4.56	8.77	-6.63
		ppm	-0.002	0.005	-0.003
66	1745 MHz	Hz	-2.38	-3.68	6.80
		ppm	-0.001	-0.002	0.004

Report No.: I20W00014-WWAN_Rev2

5.8.2 CAT-M Band Frequency Stability over Voltage Variation Results

Test data:

Band	Modulation	Frequency	Offset	Voltage (V)		
				2.7	3.3	4.8
2	QPSK	1880 MHz	Hz	-7.65	1.75	5.31
			ppm	-0.004	0.001	0.003
	16QAM		Hz	11.25	-3.62	4.59
			ppm	0.006	-0.002	0.002
4	QPSK	1732.5 MHz	Hz	2.95	-4.05	3.16
			ppm	0.002	-0.002	0.002
	16QAM		Hz	4.11	-7.68	3.55
			ppm	0.002	-0.004	0.002
5	QPSK	836.5 MHz	Hz	5.82	-7.35	3.56
			ppm	0.007	-0.009	0.004
	16QAM		Hz	-3.53	8.11	-6.31
			ppm	-0.004	0.010	-0.007
12	QPSK	707.5 MHz	Hz	-5.42	-8.35	11.27
			ppm	-0.008	-0.012	0.016
	16QAM		Hz	3.58	-6.11	-7.15
			ppm	0.005	-0.009	-0.010
13	QPSK	782 MHz	Hz	1.75	-3.56	-4.19
			ppm	0.002	-0.004	-0.005
	16QAM		Hz	3.25	-6.17	-2.66
			ppm	0.004	-0.008	-0.003
25	QPSK	1882.5 MHz	Hz	-6.16	8.21	-4.11
			ppm	-0.003	0.004	-0.002
	16QAM		Hz	2.75	6.06	-3.13
			ppm	0.001	0.003	-0.002
26	QPSK	836.5	Hz	9.36	-7.61	-6.15

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(824-849 MHz)		MHz	ppm	0.011	-0.009	-0.007
	16QAM		Hz	-6.36	-7.85	3.96
			ppm	-0.008	-0.009	0.005
26 (814-824 MHz)	QPSK	819 MHz	Hz	4.55	-7.36	-8.58
			ppm	0.005	-0.009	-0.010
	16QAM		Hz	-4.19	3.75	3.98
			ppm	-0.005	0.004	0.005
66	QPSK	1745 MHz	Hz	-2.15	3.97	6.13
			ppm	-0.001	0.002	0.003
	16QAM		Hz	-5.15	7.02	3.14
			ppm	-0.003	0.004	0.002

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Report No.: I20W00014-WWAN_Rev2

5.9 Peak to Average Ratio

Specifications:	FCC Part 24.232, 27.50
DUT Serial Number:	866884045622016
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

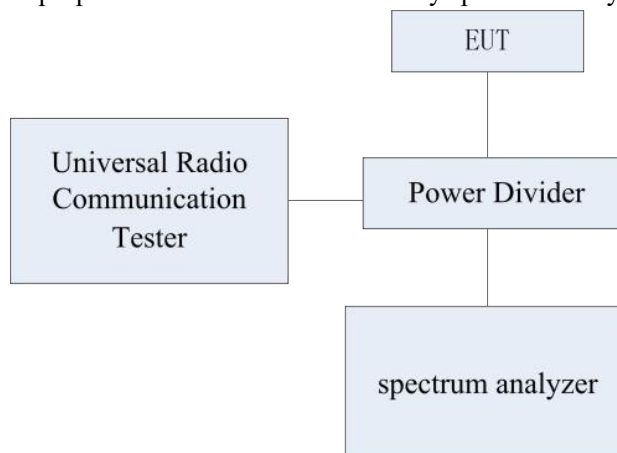
The EUT meets the requirement of having a peak to average ratio of less than 13dB.

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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Report No.: I20W00014-WWAN_Rev2

5.9.1 NB-IoT Peak to Average Ratio Results

Mode	Channel	Frequency (MHz)	PAPR(dB)	PAPR(dB)
			QPSK	BPSK
Band2	18900	1880	11.06	10.00
Band4	20175	1732.5	4.13	6.60
Band5	20525	836.5	11.60	6.46
Band12	23095	707.5	7.82	8.32
Band13	23230	782.0	8.85	8.40
Band25	26365	1882.5	6.99	9.78
Band66	132322	1745	8.01	8.76

5.9.2 CAT-M Peak to Average Ratio Results

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band2	1.4MHz	QPSK	18900/1880	8.94
		16QAM	18900/1880	10.71
	3MHz	QPSK	18900/1880	10.42
		16QAM	18900/1880	9.81
	5MHz	QPSK	18900/1880	9.58
		16QAM	18900/1880	9.42
	10MHz	QPSK	18900/1880	9.52
		16QAM	18900/1880	9.52
	15MHz	QPSK	18900/1880	9.17
		16QAM	18900/1880	9.20
	20MHz	QPSK	18900/1880	9.23
		16QAM	18900/1880	9.10

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Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band4	1.4MHz	QPSK	20175/1732.5	9.65
		16QAM	20175/1732.5	9.68
	3MHz	QPSK	20175/1732.5	9.78
		16QAM	20175/1732.5	10.32
	5MHz	QPSK	20175/1732.5	10.93
		16QAM	20175/1732.5	10.32
	10MHz	QPSK	20175/1732.5	9.39
		16QAM	20175/1732.5	9.62
	15MHz	QPSK	20175/1732.5	8.97
		16QAM	20175/1732.5	8.91
	20MHz	QPSK	20175/1732.5	9.17
		16QAM	20175/1732.5	9.13

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band5	1.4MHz	QPSK	20525/836.5	10.13
		16QAM	20525/836.5	10.00
	3MHz	QPSK	20525/836.5	9.78
		16QAM	20525/836.5	9.81
	5MHz	QPSK	20525/836.5	9.68
		16QAM	20525/836.5	10.22
	10MHz	QPSK	20525/836.5	9.71
		16QAM	20525/836.5	9.68

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band12	1.4MHz	QPSK	23095/707.5	9.58
		16QAM	23095/707.5	10.13
	3MHz	QPSK	23095/707.5	9.55
		16QAM	23095/707.5	9.90
	5MHz	QPSK	23095/707.5	11.25
		16QAM	23095/707.5	9.52
	10MHz	QPSK	23095/707.5	9.36
		16QAM	23095/707.5	9.46

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Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band13	5MHz	QPSK	23230/782.0	9.52
		16QAM	23230/782.0	9.23
	10MHz	QPSK	23230/782.0	9.42
		16QAM	23230/782.0	9.49

Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band25	1.4MHz	QPSK	26365/1882.5	9.84
		16QAM	26365/1882.5	9.74
	3MHz	QPSK	26365/1882.5	9.71
		16QAM	26365/1882.5	9.84
	5MHz	QPSK	26365/1882.5	9.65
		16QAM	26365/1882.5	10.26
	10MHz	QPSK	26365/1882.5	10.13
		16QAM	26365/1882.5	9.62
	15MHz	QPSK	26365/1882.5	9.20
		16QAM	26365/1882.5	9.20
	20MHz	QPSK	26365/1882.5	9.17
		16QAM	26365/1882.5	9.17

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Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band26 (824MHz-849 MHz)	1.4MHz	QPSK	26865/831.5	10.13
		16QAM	26865/831.5	10.35
	3MHz	QPSK	26865/831.5	9.78
		16QAM	26865/831.5	9.78
	5MHz	QPSK	26865/831.5	10.10
		16QAM	26865/831.5	9.52
	10MHz	QPSK	26865/831.5	9.65
		16QAM	26865/831.5	10.26
Band26 (814MHz-824 MHz)	1.4MHz	QPSK	26740/819	9.71
		16QAM	26740/819	9.87
	3MHz	QPSK	26740/819	9.71
		16QAM	26740/819	9.71
	5MHz	QPSK	26740/819	9.62
		16QAM	26740/819	10.67
	10MHz	QPSK	26740/819	9.62
		16QAM	26740/819	9.58

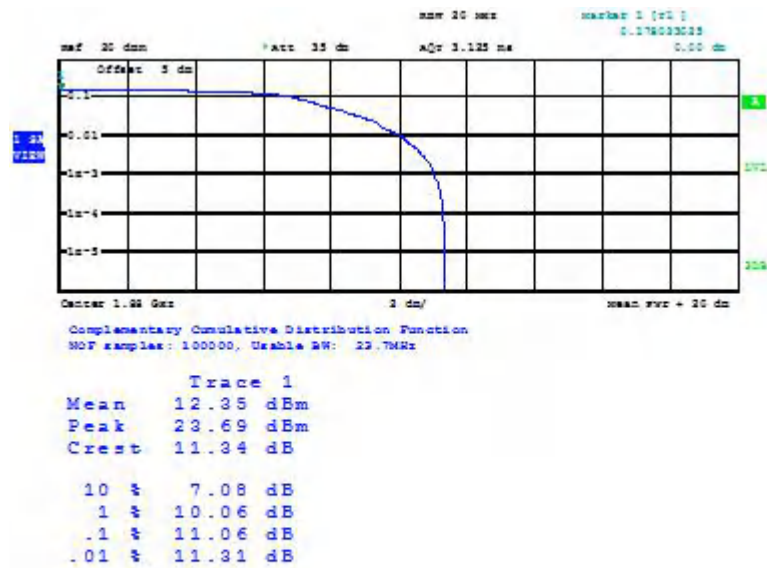
Mode	Bandwidth	Modulation	Channel/Frequency (MHz)	PAPR (dB)
Band66	1.4MHz	QPSK	132322/1745	8.04
		16QAM	132322/1745	8.37
	3MHz	QPSK	132322/1745	8.56
		16QAM	132322/1745	8.59
	5MHz	QPSK	132322/1745	8.59
		16QAM	132322/1745	6.63
	10MHz	QPSK	132322/1745	7.92
		16QAM	132322/1745	8.24
	15MHz	QPSK	132322/1745	8.72
		16QAM	132322/1745	7.92
	20MHz	QPSK	132322/1745	4.87
		16QAM	132322/1745	7.76

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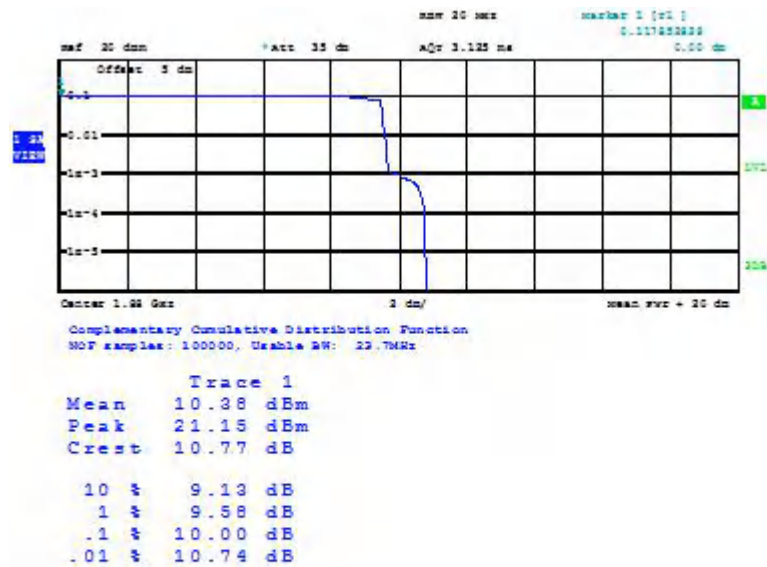
Report No.: I20W00014-WWAN_Rev2

Graphical for Peak to Average Ratio Results for NB-IoT:



Date: 5.SEP.2020 02:47:07

Band2-CH18900-1880MHz-QPSK



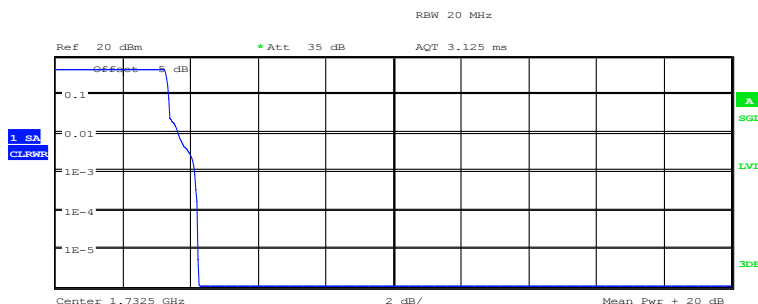
Date: 5.SEP.2020 02:47:43

Band2-CH18900-1880MHz-BPSK

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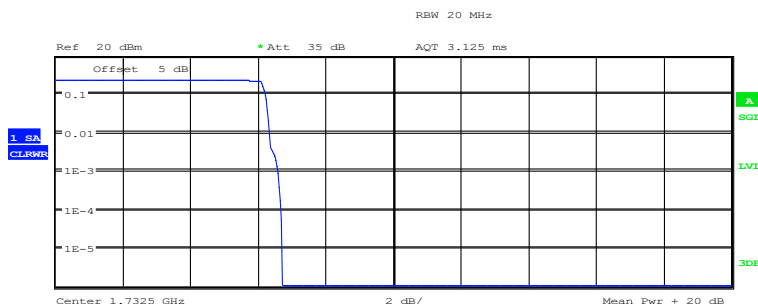
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1

Mean	17.25 dBm
Peak	21.47 dBm
Crest	4.23 dB
10 %	3.37 dB
1 %	3.65 dB
.1 %	4.13 dB
.01 %	4.20 dB

Date: 5.SEP.2020 04:03:16

Band4-CH20175-1732.5MHz-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1

Mean	14.63 dBm
Peak	21.33 dBm
Crest	6.70 dB
10 %	6.22 dB
1 %	6.35 dB
.1 %	6.60 dB
.01 %	6.70 dB

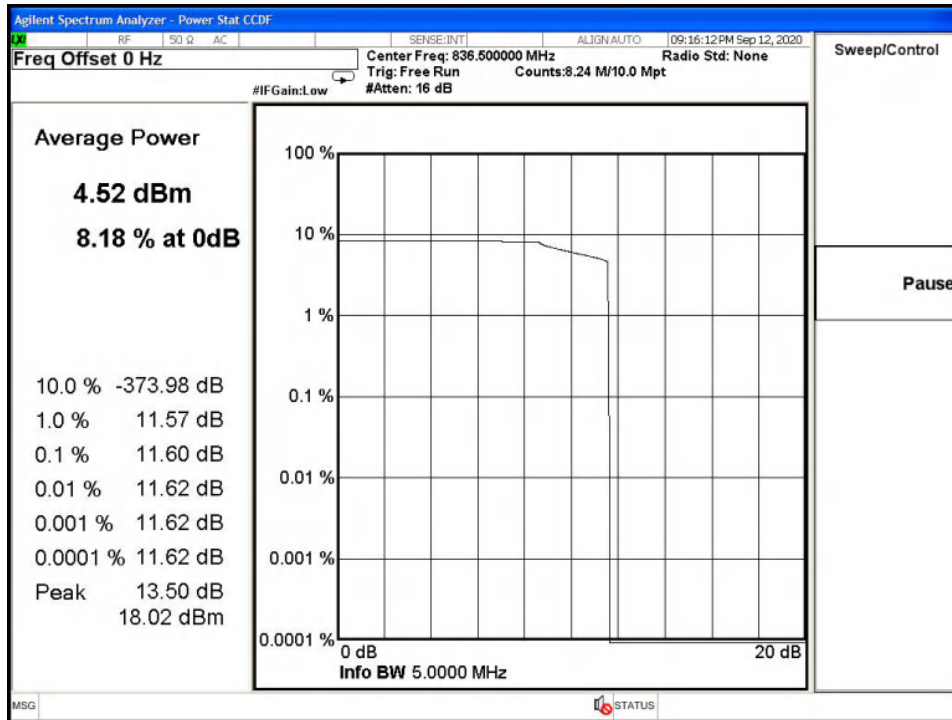
Date: 5.SEP.2020 04:03:30

Band4- CH20175-1732.5MHz -BPSK

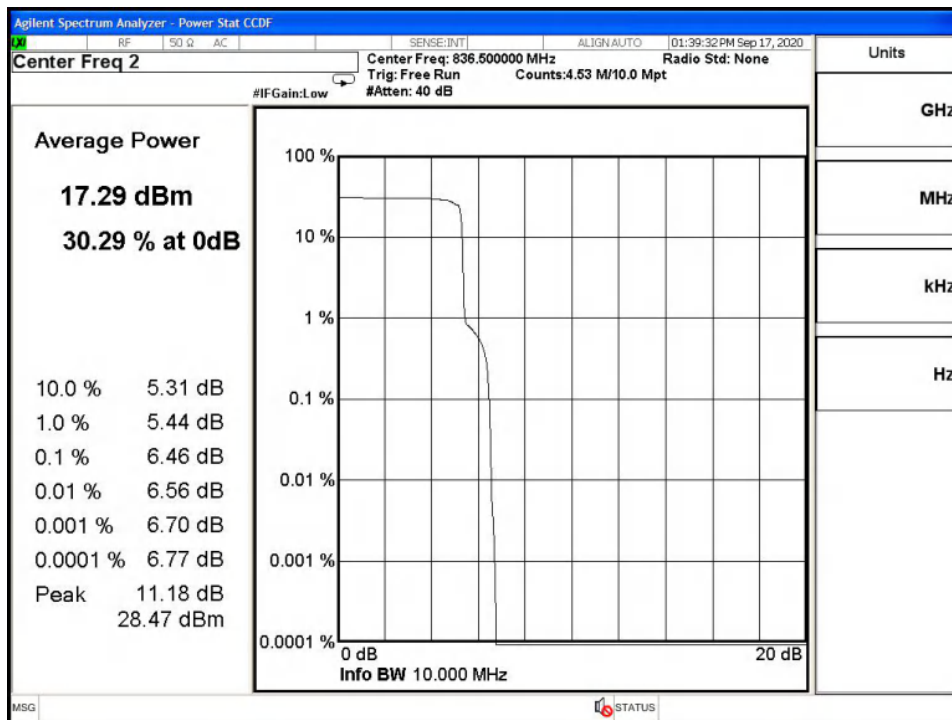
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Band5-CH20525-836.5MHz-QPSK

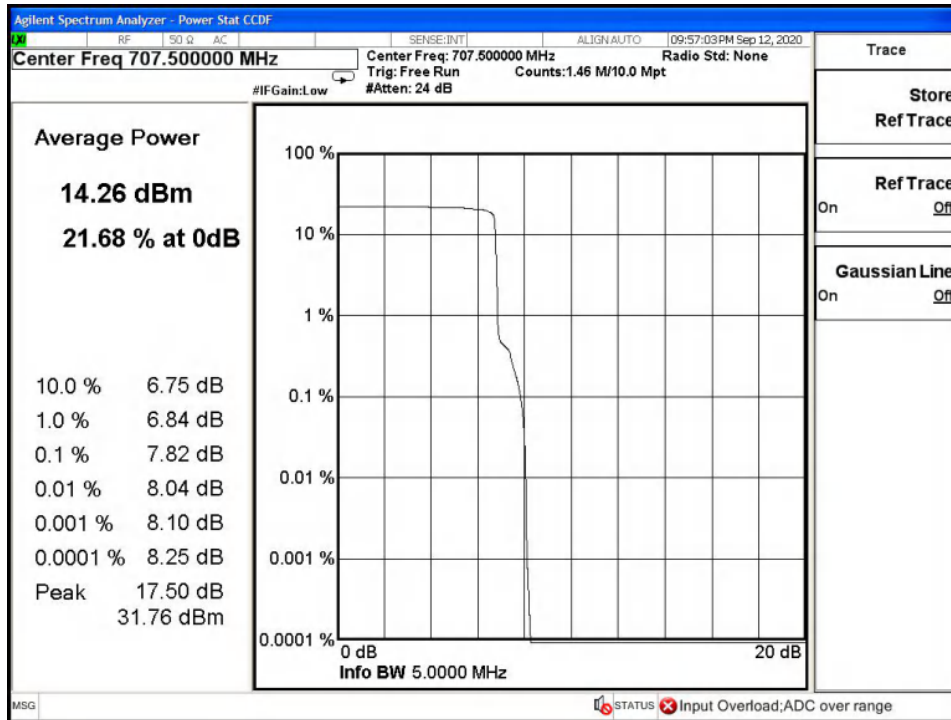


Band5- CH20525-836.5MHz -BPSK

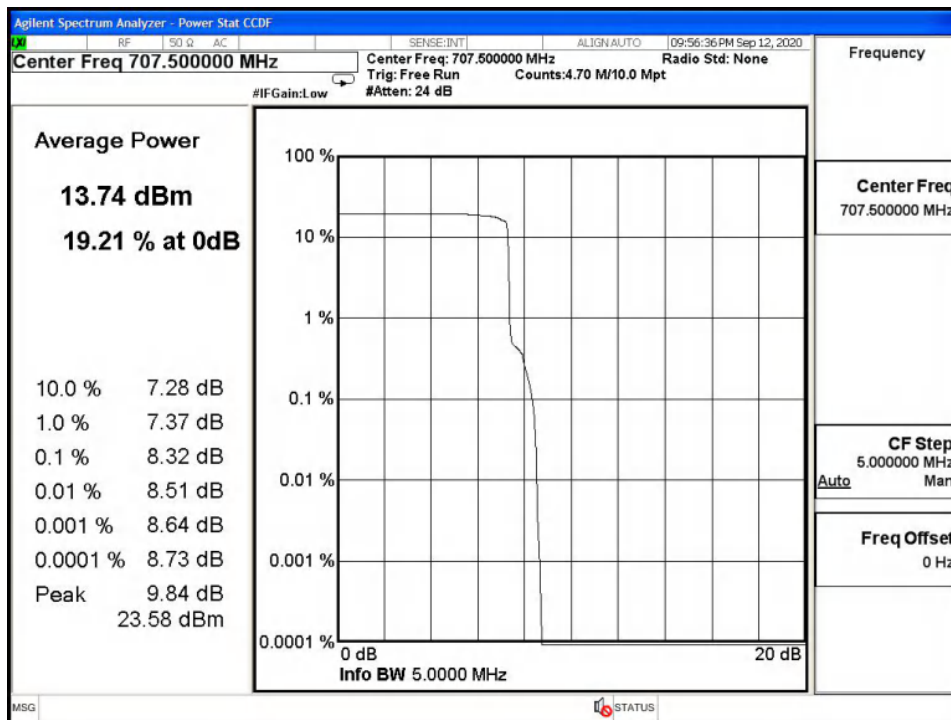
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Band12-CH23095-707.5MHz-QPSK

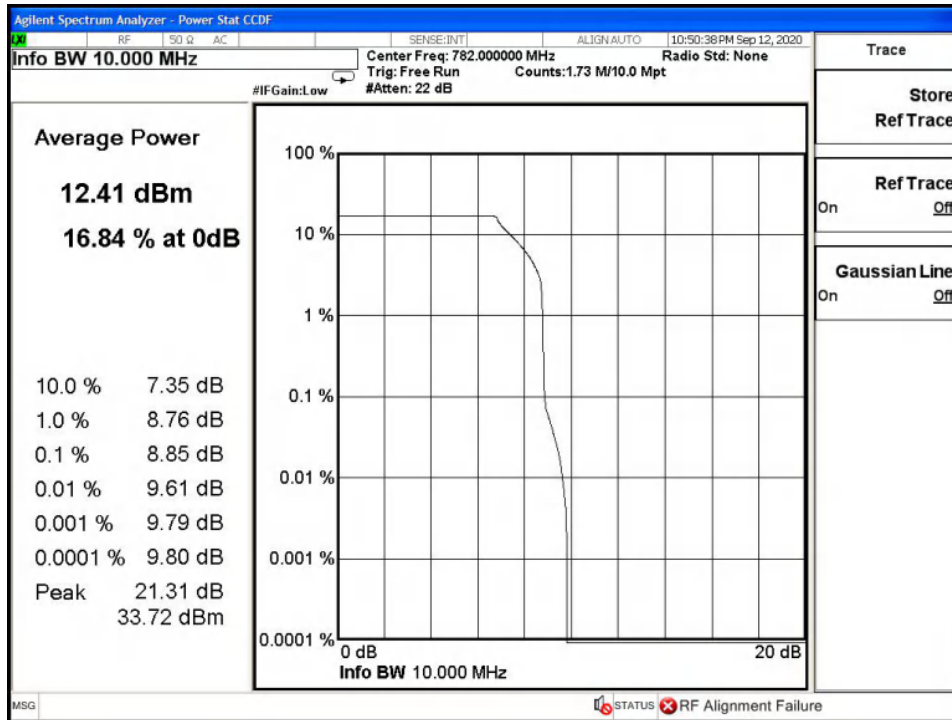


Band12- CH23095-707.5MHz -BPSK

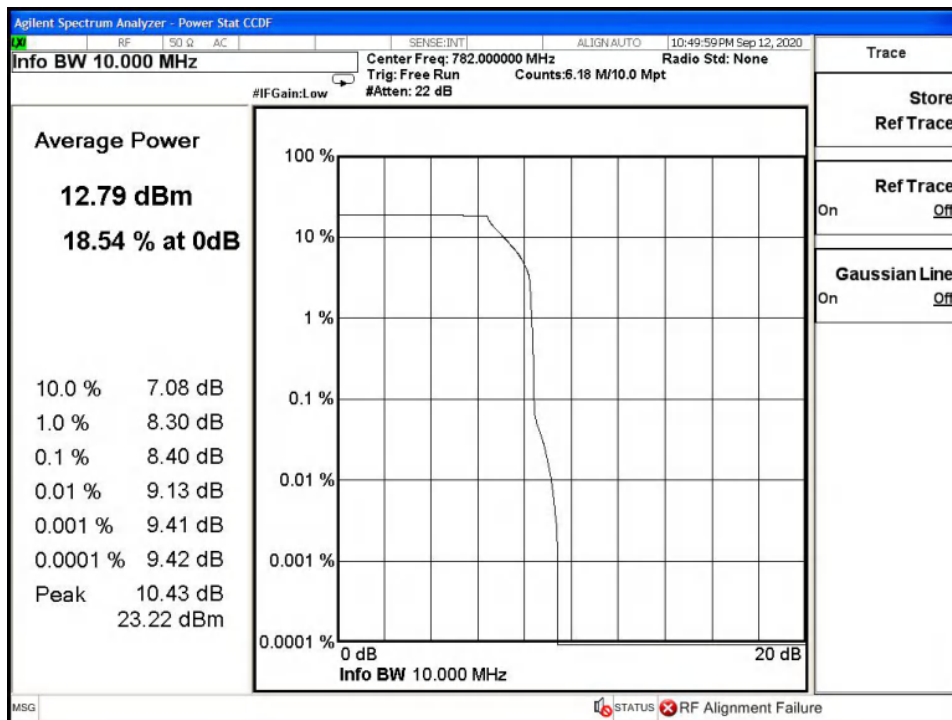
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Report No.: I20W00014-WWAN_Rev2



Band13-CH23230-782MHz-QPSK



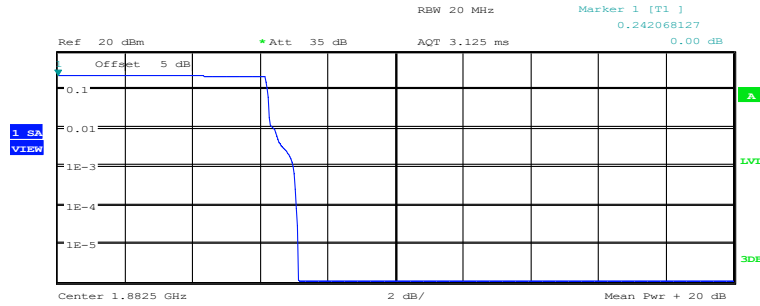
Band13- CH23230-782MHz -BPSK

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Report No.: I20W00014-WWAN_Rev2



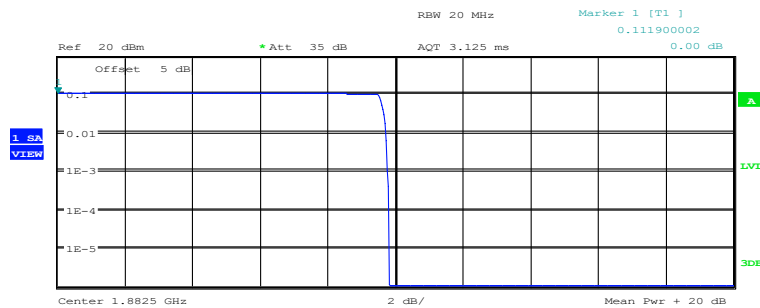
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 13.70 dBm
Peak 20.82 dBm
Crest 7.12 dB

10 % 6.22 dB
1 % 6.41 dB
.1 % 6.99 dB
.01 % 7.08 dB

Date: 5.SEP.2020 01:24:00

Band25-CH26365-1882.5MHz-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 10.87 dBm
Peak 20.68 dBm
Crest 9.81 dB

10 % 9.49 dB
1 % 9.74 dB
.1 % 9.78 dB
.01 % 9.84 dB

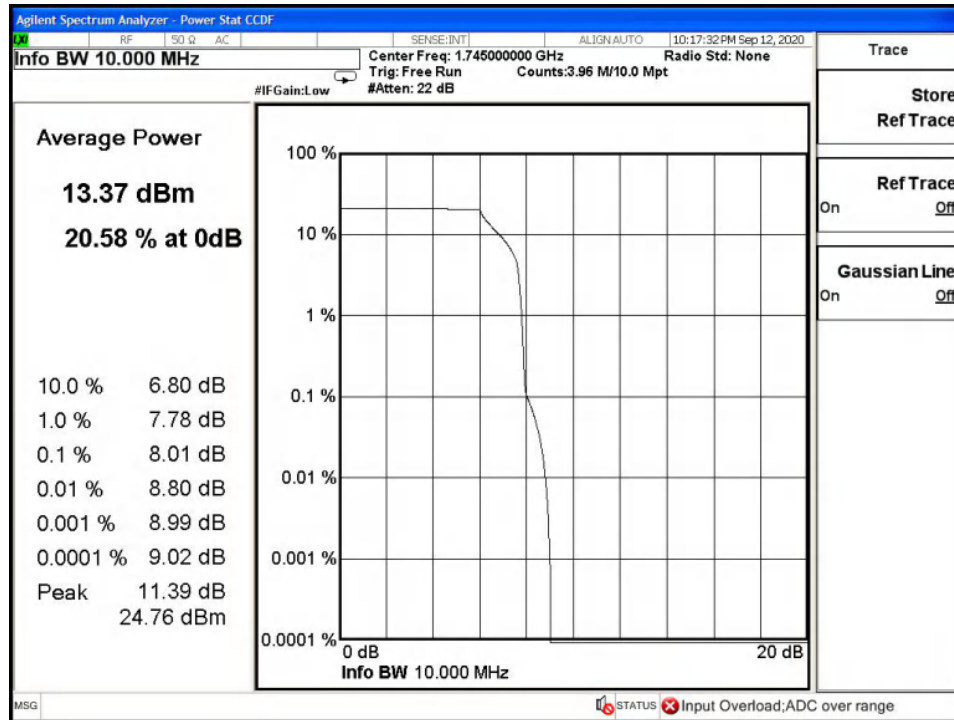
Date: 5.SEP.2020 01:23:00

Band25-CH26365-1882.5MHz-BPSK

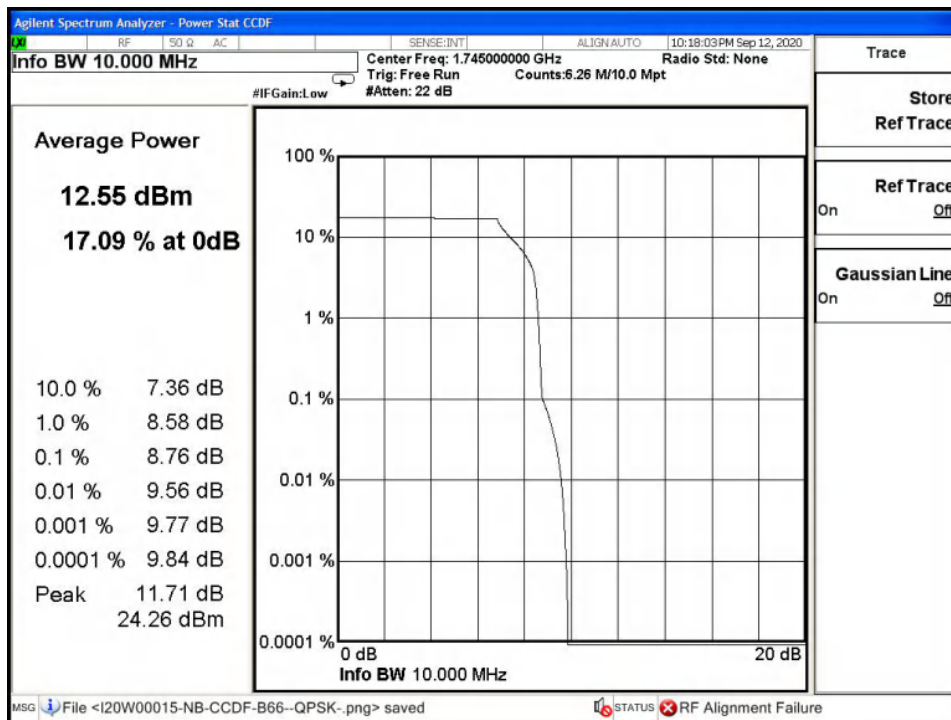
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Report No.: I20W00014-WWAN_Rev2



Band66-CH132322-1745MHz-QPSK



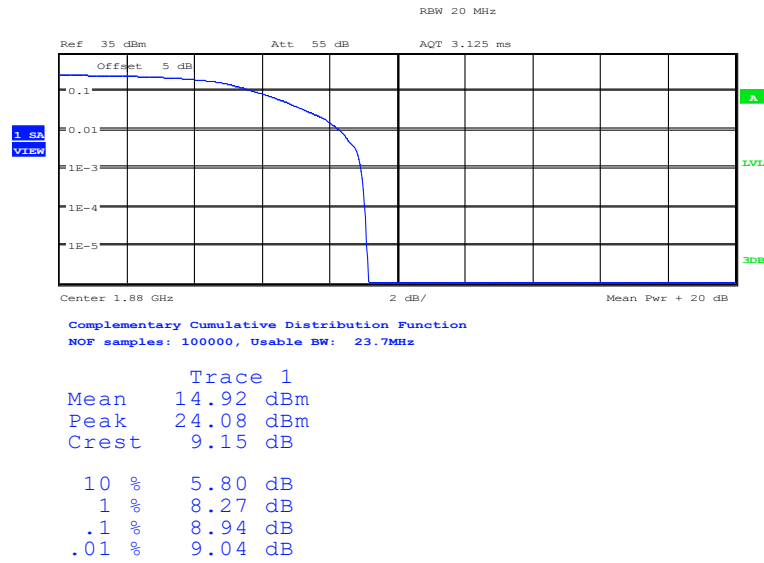
Band66-CH132322-1745MHz-BPSK

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

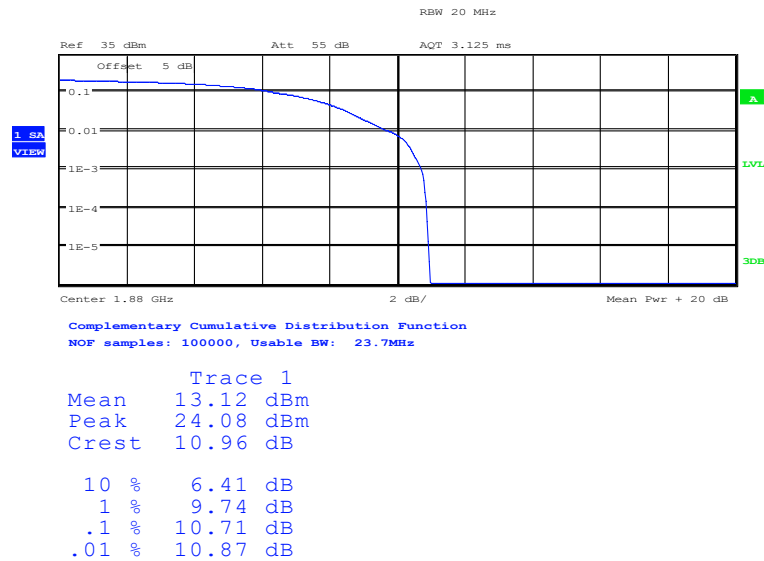
Report No.: I20W00014-WWAN_Rev2

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



Date: 1.SEP.2020 23:58:43

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



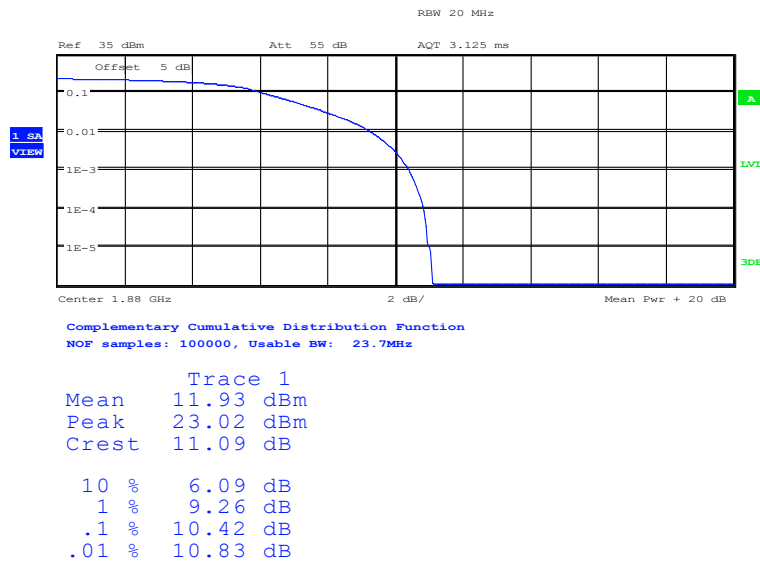
Date: 1.SEP.2020 23:59:38

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

Chongqing Academy of Information and Communication Technology

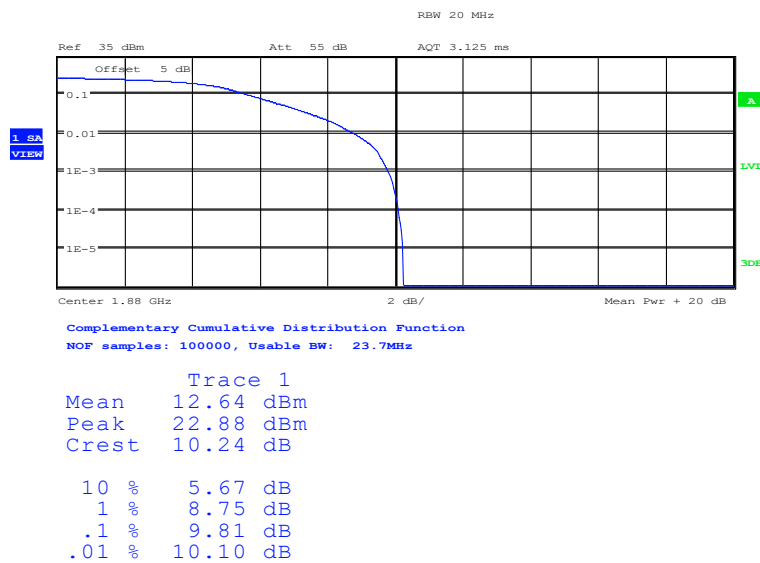
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:01:35

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



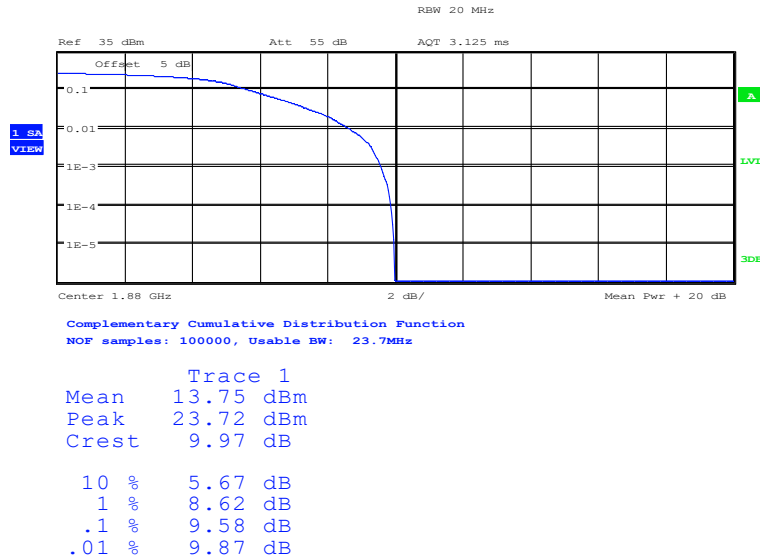
Date: 2.SEP.2020 00:00:49

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

Chongqing Academy of Information and Communication Technology

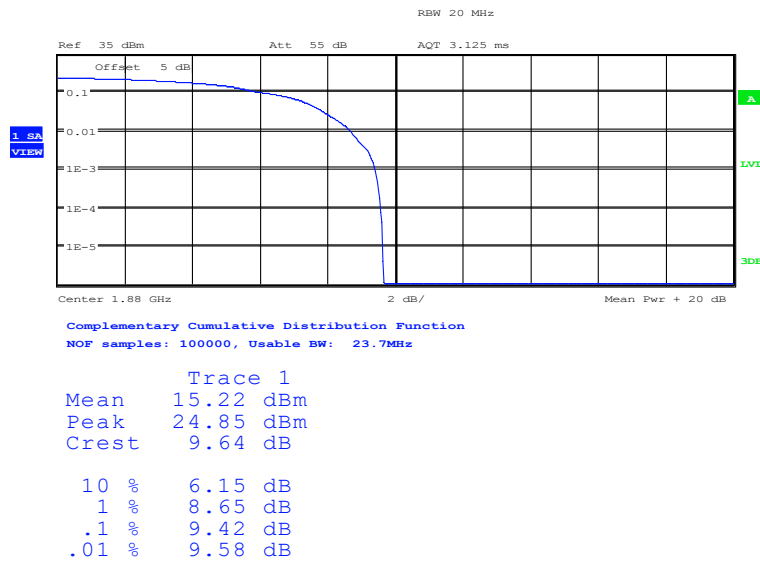
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:02:07

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



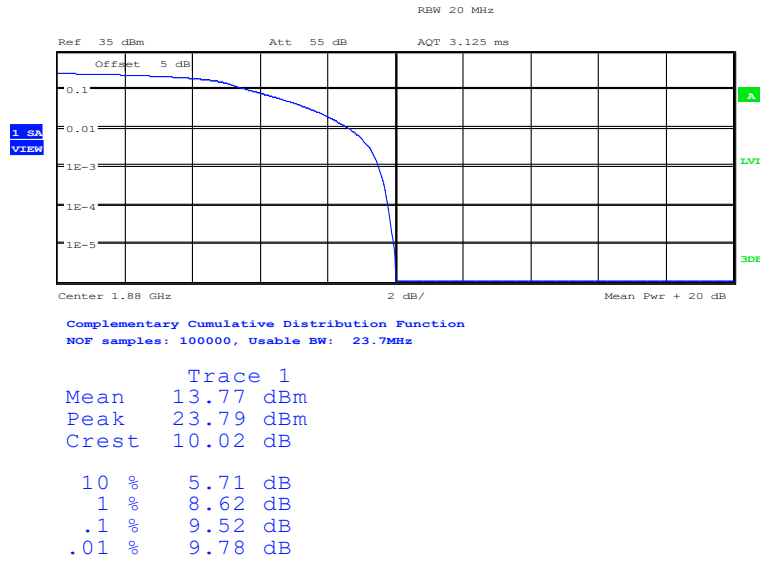
Date: 2.SEP.2020 00:05:03

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

Chongqing Academy of Information and Communication Technology

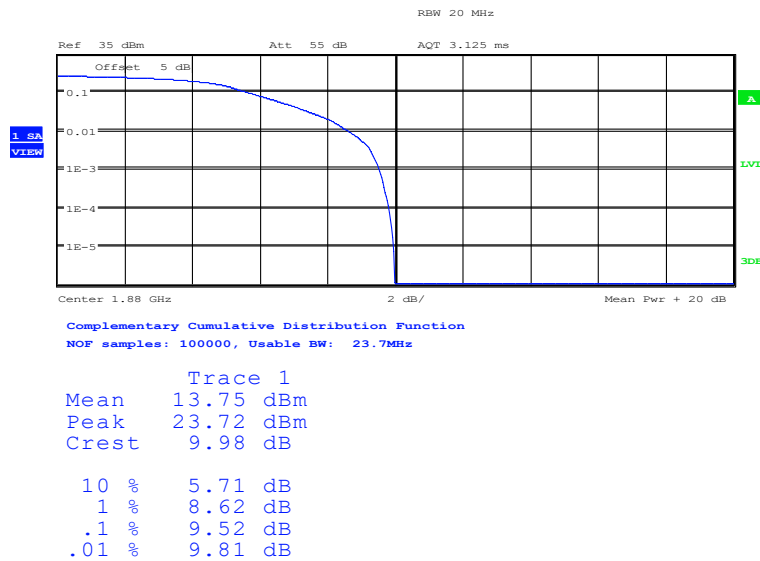
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:06:03

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



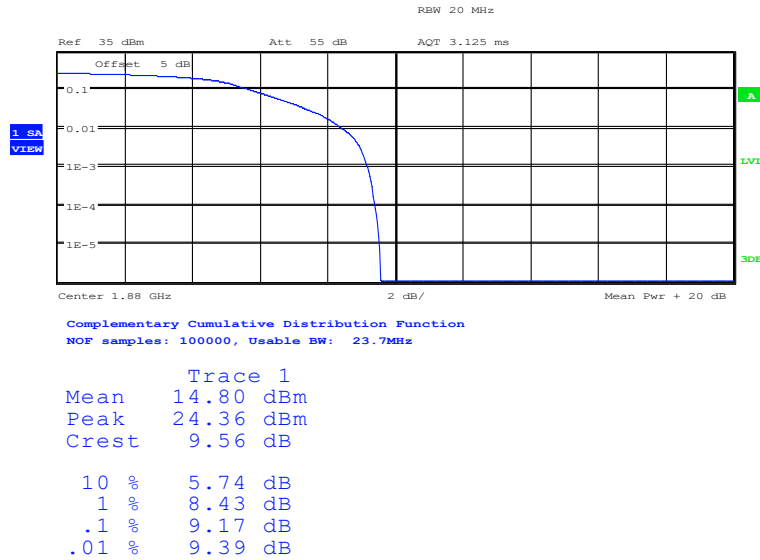
Date: 2.SEP.2020 00:05:37

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

Chongqing Academy of Information and Communication Technology

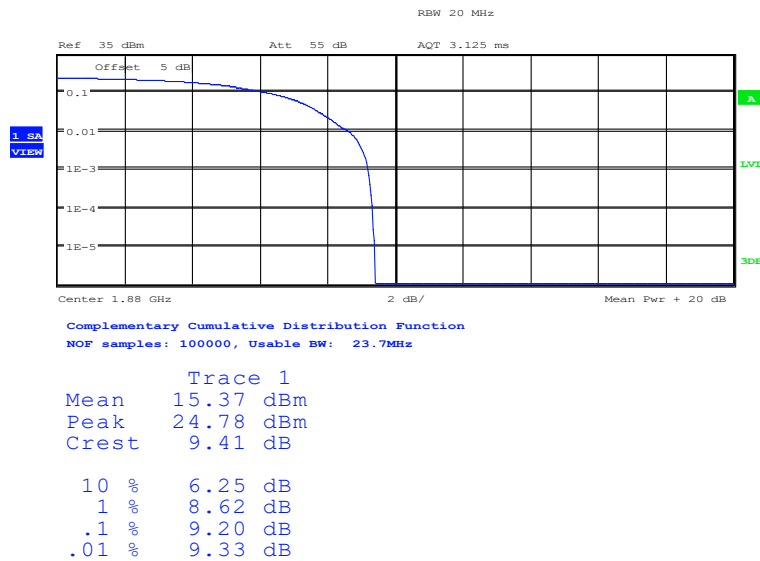
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:06:35

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



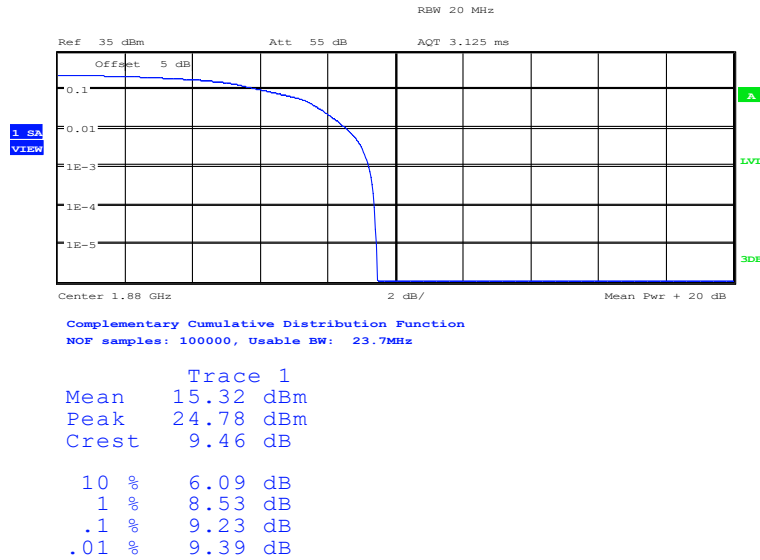
Date: 2.SEP.2020 00:14:28

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

Chongqing Academy of Information and Communication Technology

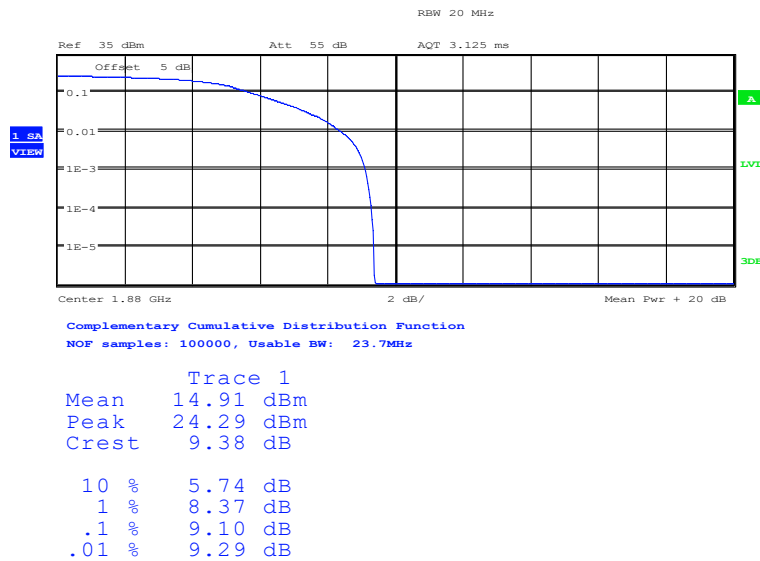
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:15:35

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



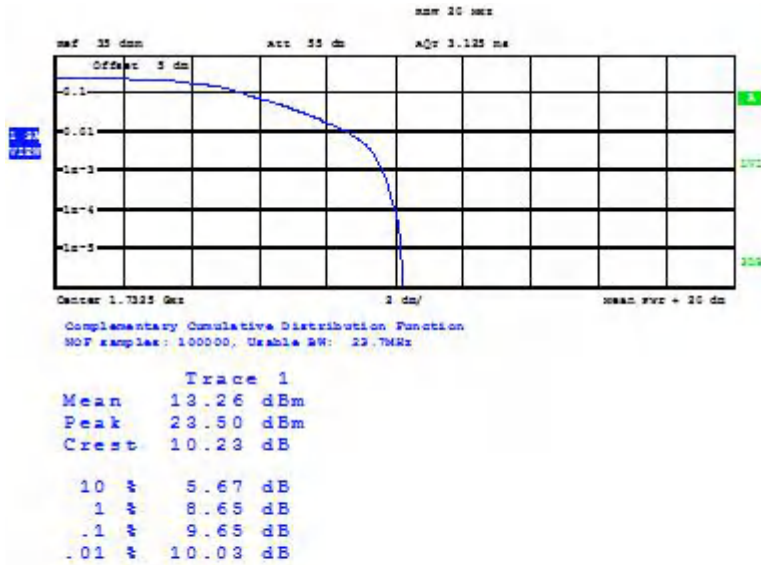
Date: 2.SEP.2020 00:15:00

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

Chongqing Academy of Information and Communication Technology

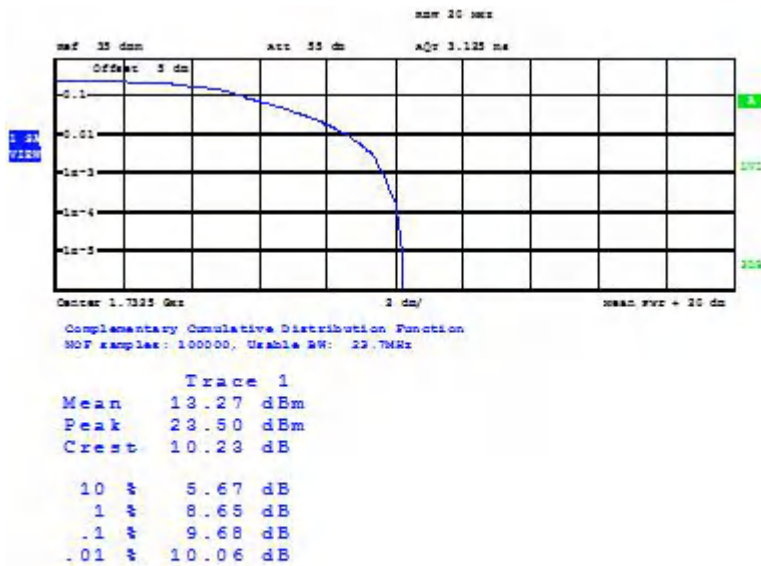
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:19:19

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



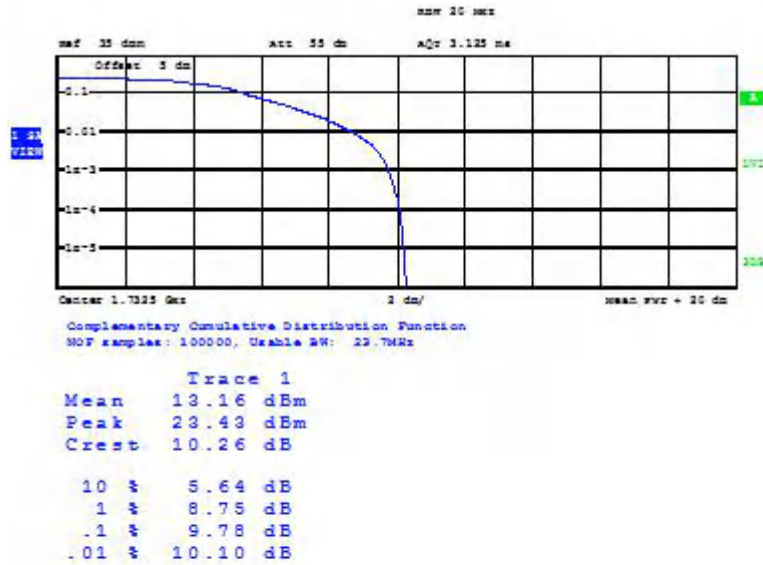
Date: 2.SEP.2020 00:19:49

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

Chongqing Academy of Information and Communication Technology

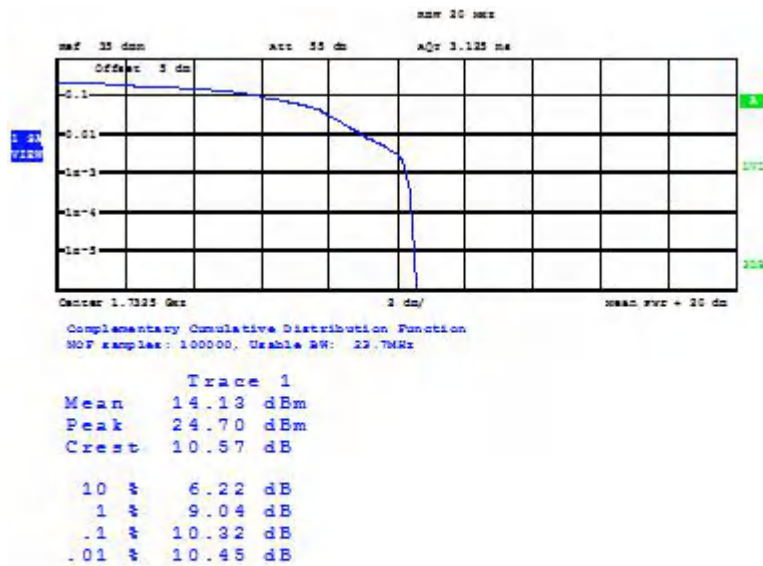
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:19:55

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



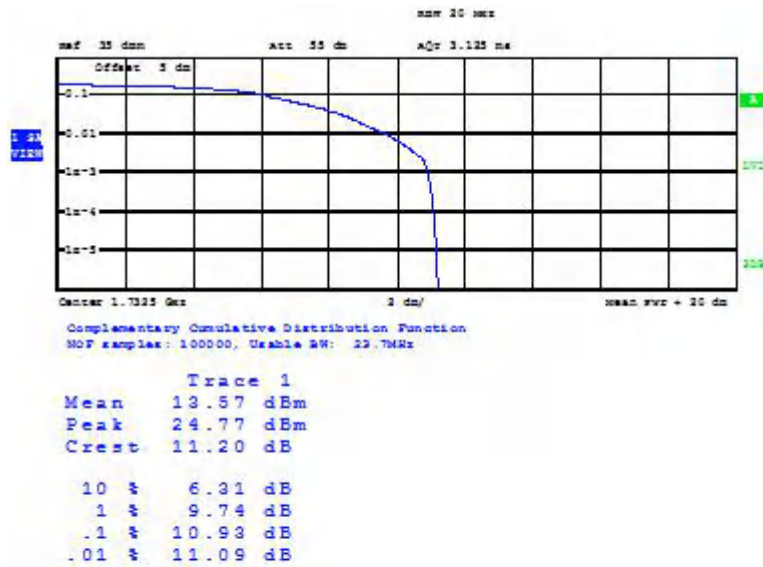
Date: 2.SEP.2020 00:20:19

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

Chongqing Academy of Information and Communication Technology

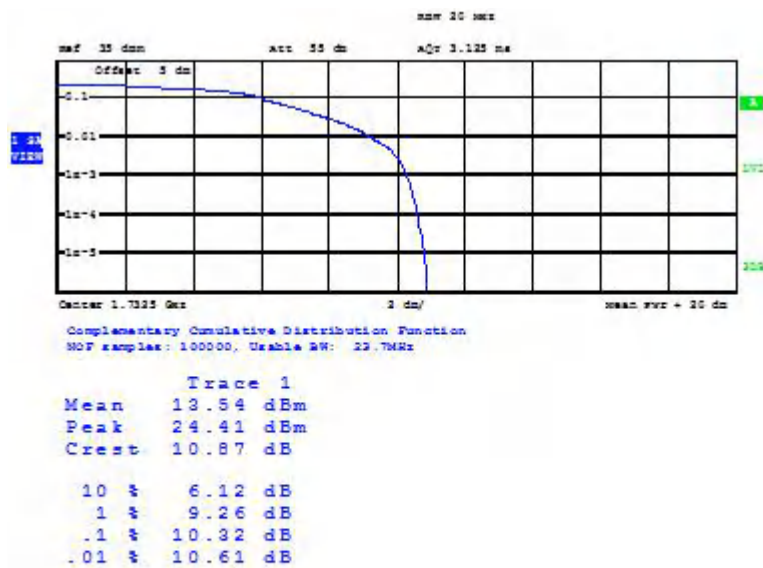
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:21:20

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



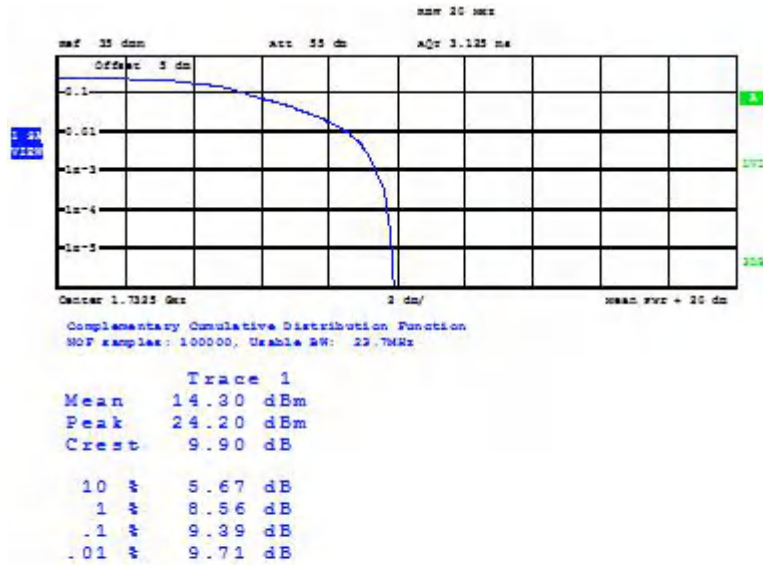
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Band4-CH20175-707.5MHz-5MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

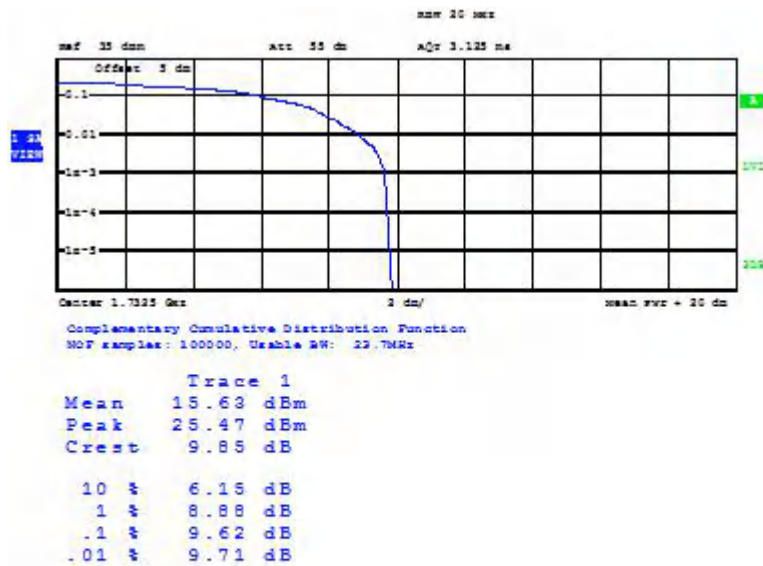
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:21:59

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



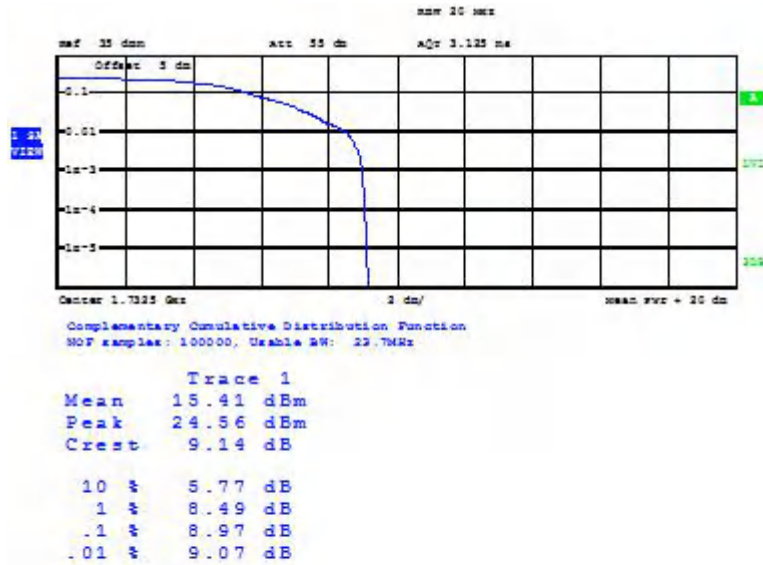
Date: 2.SEP.2020 00:22:51

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

Chongqing Academy of Information and Communication Technology

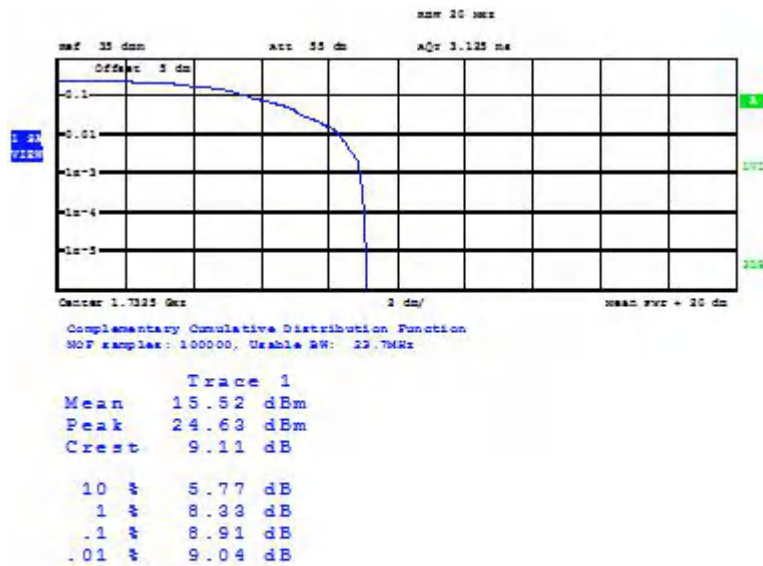
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:24:01

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



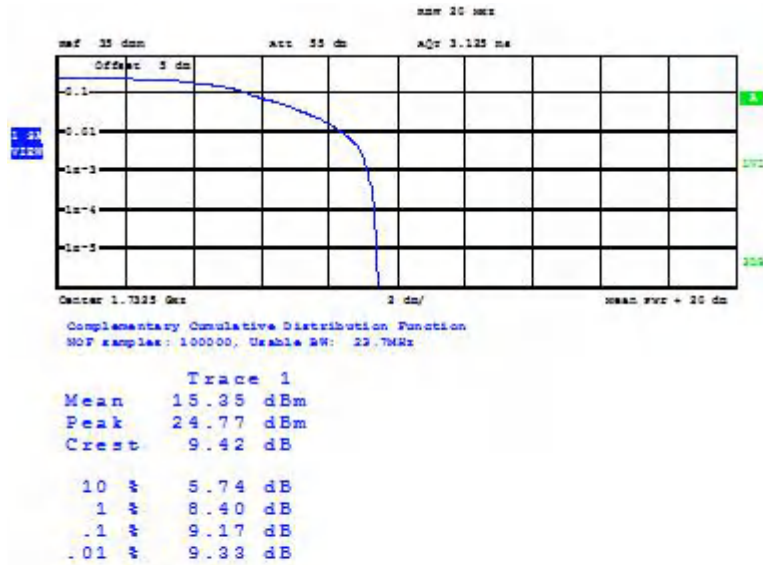
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Band4-CH20175-707.5MHz-15MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

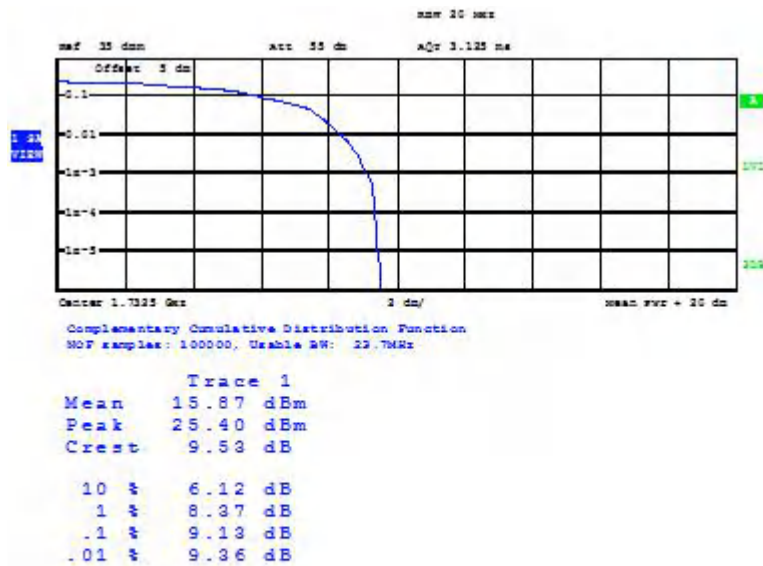
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:24:41

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



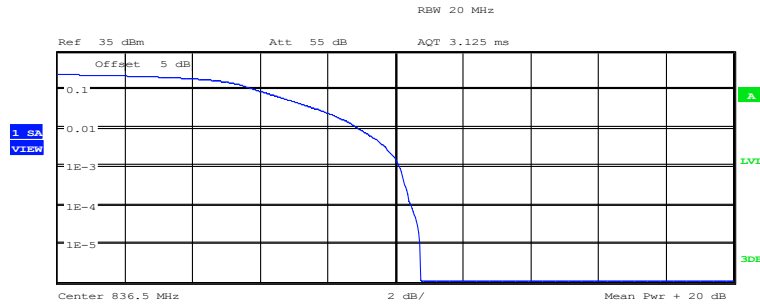
Date: 2.SEP.2020 00:25:06

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

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

Report No.: I20W00014-WWAN_Rev2



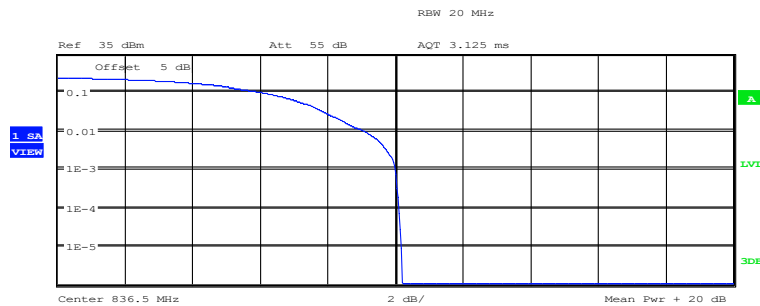
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 14.76 dBm
Peak 25.51 dBm
Crest 10.76 dB

10 % 5.90 dB
1 % 8.91 dB
.1 % 10.13 dB
.01 % 10.48 dB

Date: 2.SEP.2020 00:28:58

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



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 16.45 dBm
Peak 26.64 dBm
Crest 10.19 dB

10 % 6.12 dB
1 % 9.10 dB
.1 % 10.00 dB
.01 % 10.13 dB

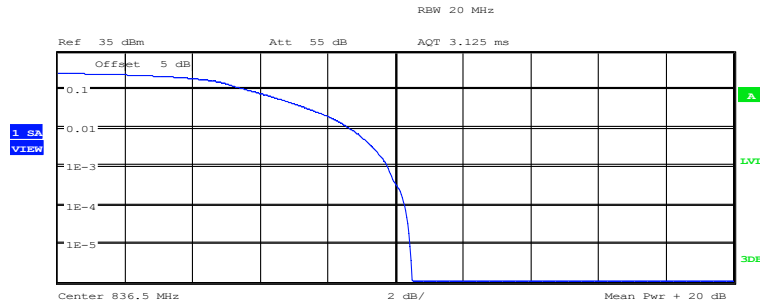
Date: 2.SEP.2020 00:29:23

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

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.: I20W00014-WWAN_Rev2



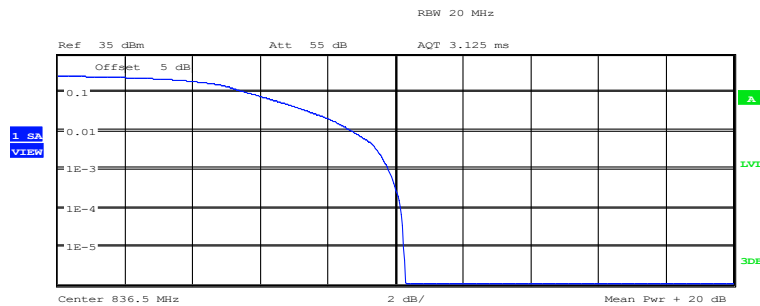
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 15.16 dBm
Peak 25.65 dBm
Crest 10.49 dB

10 % 5.67 dB
1 % 8.65 dB
.1 % 9.78 dB
.01 % 10.29 dB

Date: 2.SEP.2020 00:30:20

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



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 15.14 dBm
Peak 25.44 dBm
Crest 10.30 dB

10 % 5.67 dB
1 % 8.72 dB
.1 % 9.81 dB
.01 % 10.16 dB

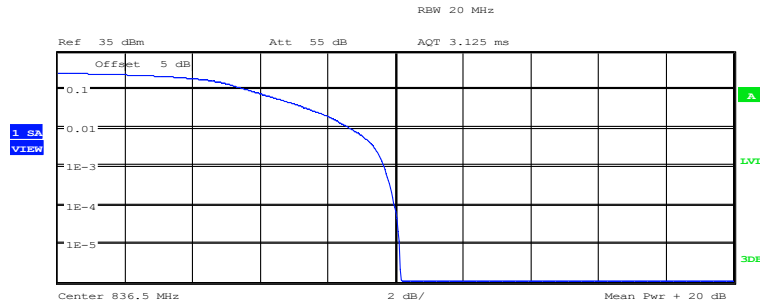
Date: 2.SEP.2020 00:29:55

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

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.: I20W00014-WWAN_Rev2



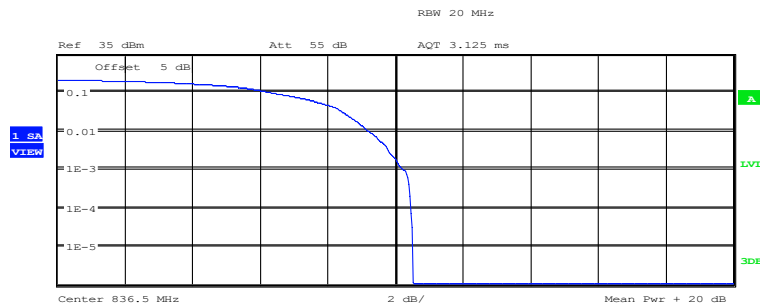
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 16.14 dBm
Peak 26.29 dBm
Crest 10.15 dB

10 % 5.67 dB
1 % 8.65 dB
.1 % 9.68 dB
.01 % 9.97 dB

Date: 2.SEP.2020 00:35:20

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



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 16.76 dBm
Peak 27.27 dBm
Crest 10.52 dB

10 % 6.35 dB
1 % 9.20 dB
.1 % 10.22 dB
.01 % 10.48 dB

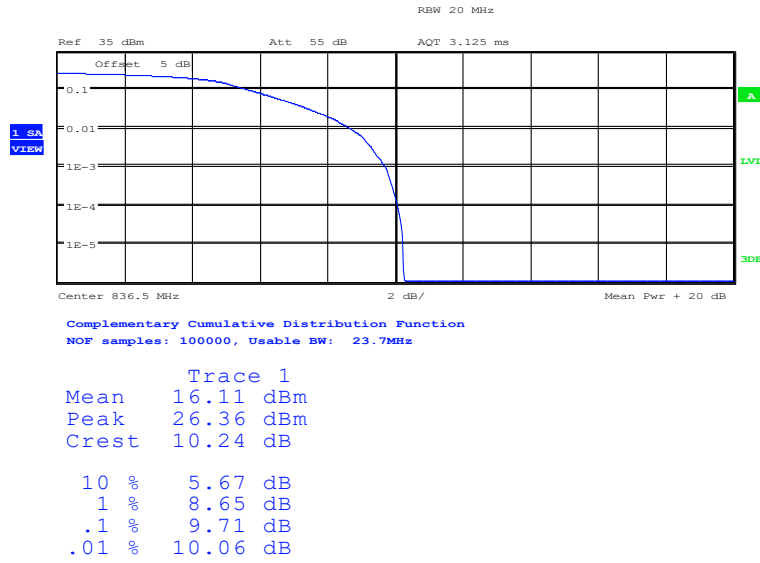
Date: 2.SEP.2020 00:36:04

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

Chongqing Academy of Information and Communication Technology

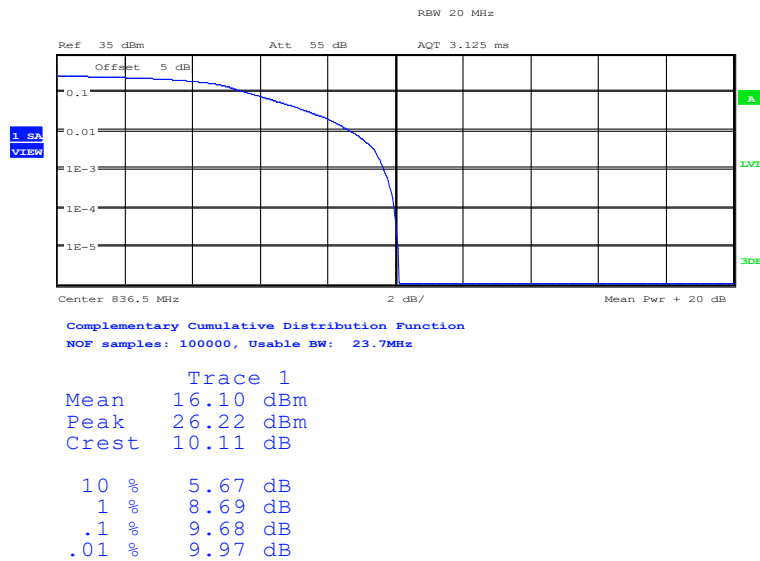
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:37:25

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



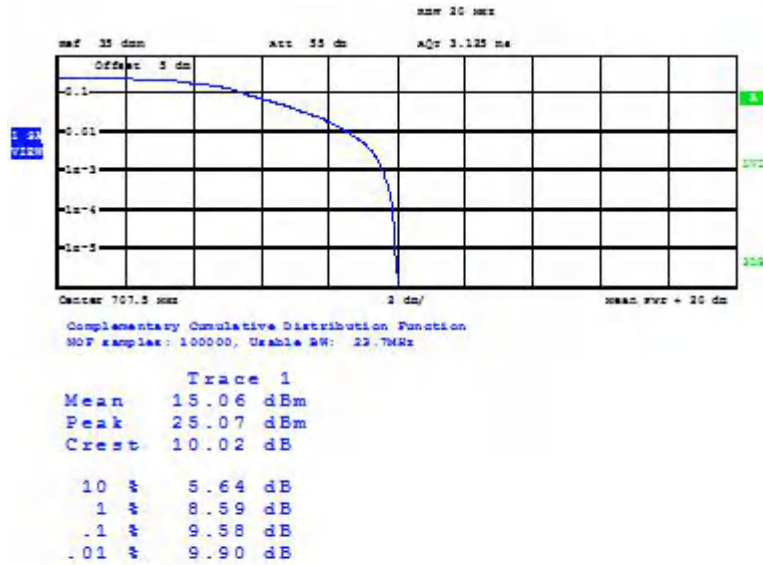
Date: 2.SEP.2020 00:36:46

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

Chongqing Academy of Information and Communication Technology

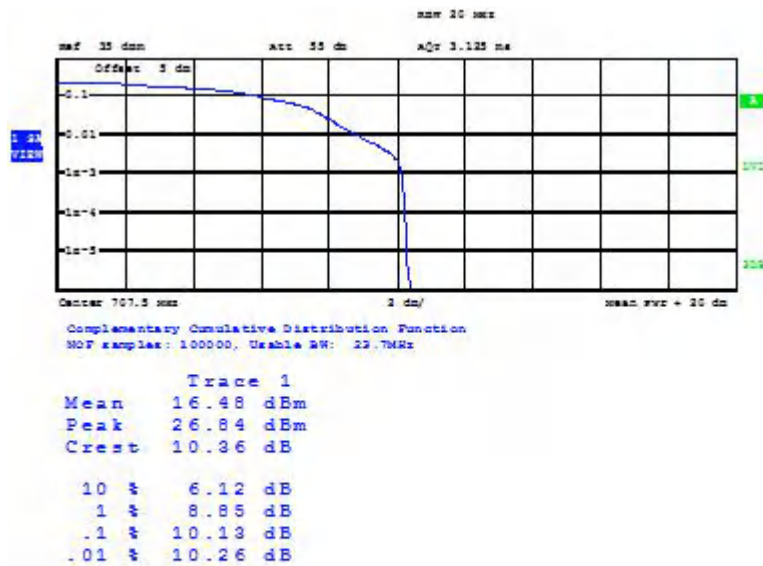
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:40:09

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



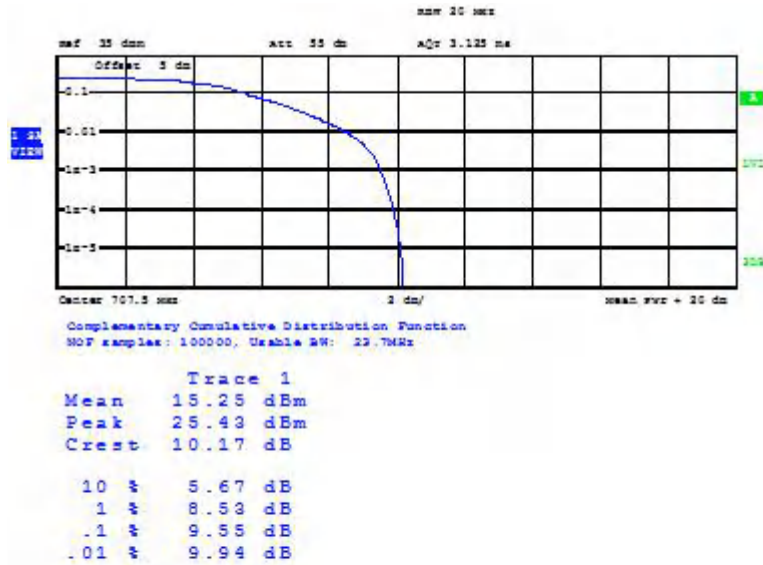
Date: 2.SEP.2020 00:40:44

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

Chongqing Academy of Information and Communication Technology

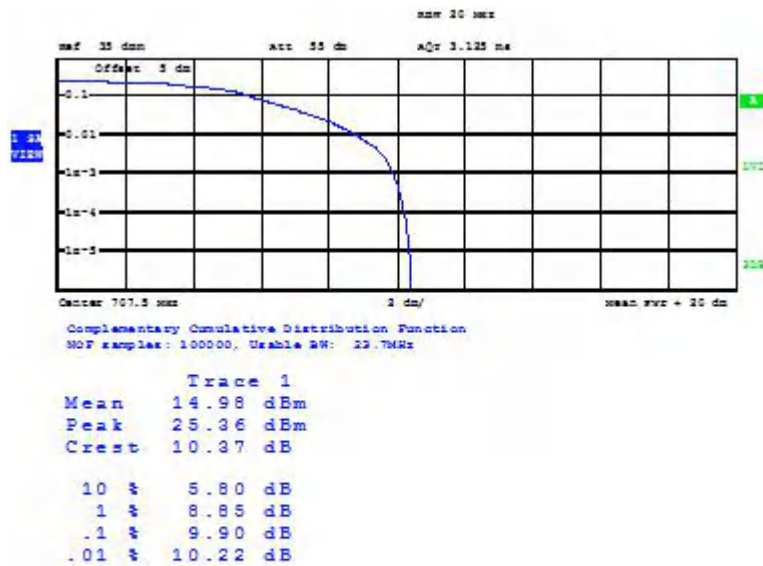
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:43:47

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



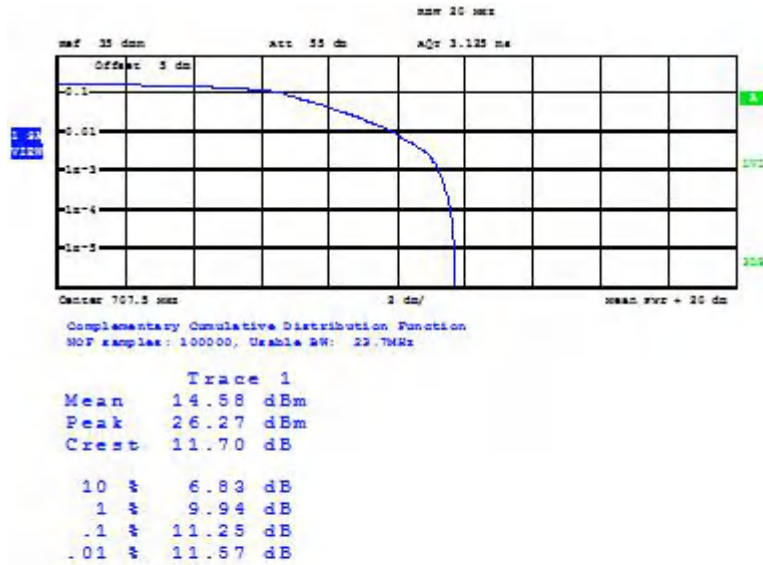
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Band12-CH23095-707.5MHz-3MHz Bandwidth-16QAM

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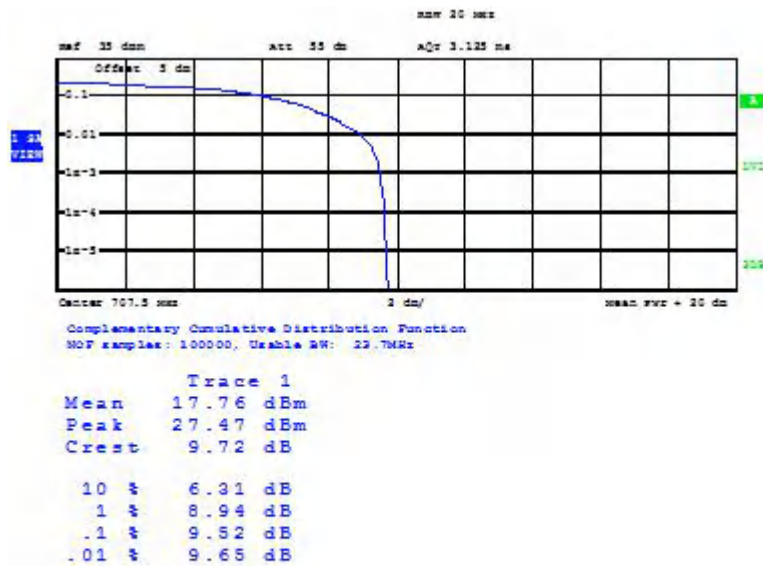
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:44:48

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



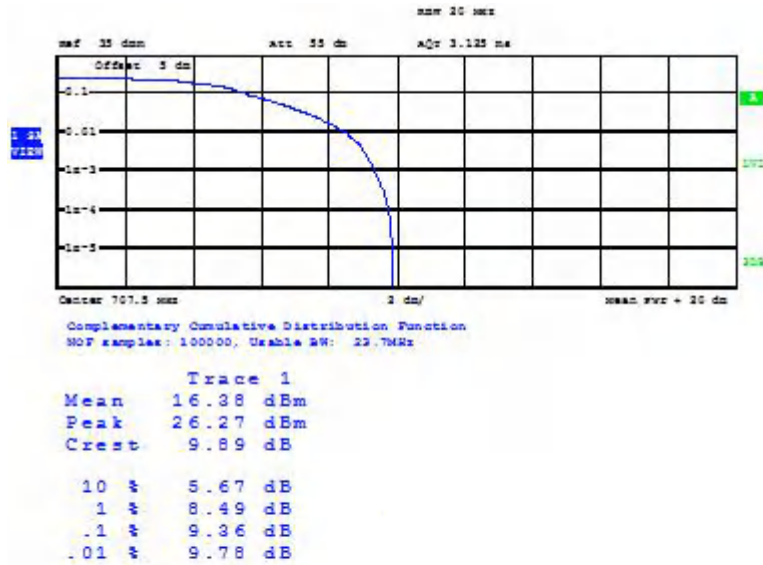
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Band12-CH23095-707.5MHz-5MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

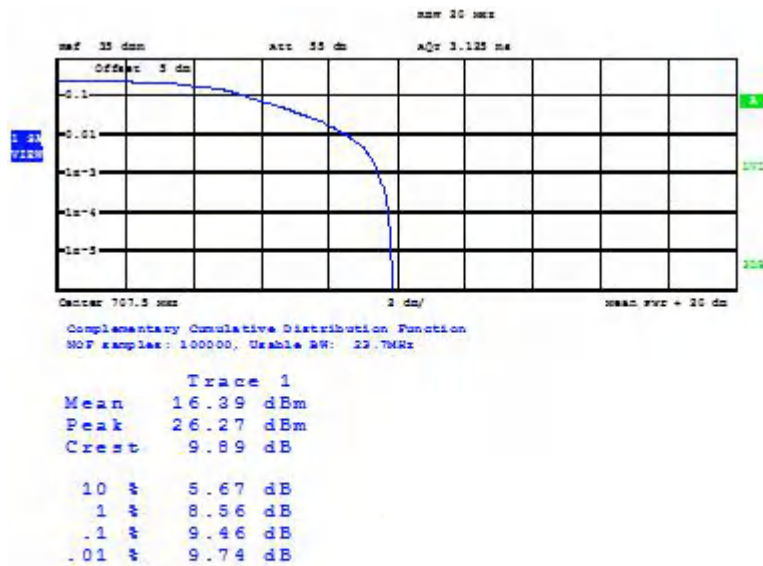
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:46:13

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



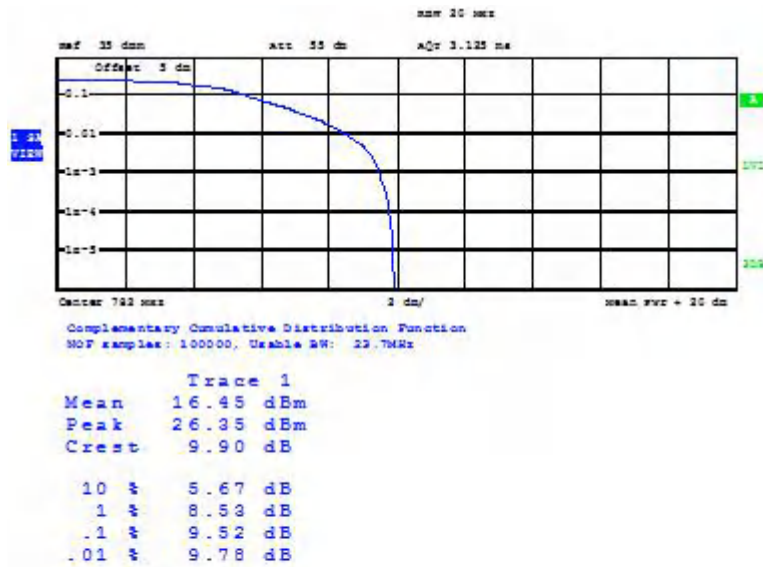
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Band12-CH23095-707.5MHz-10MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

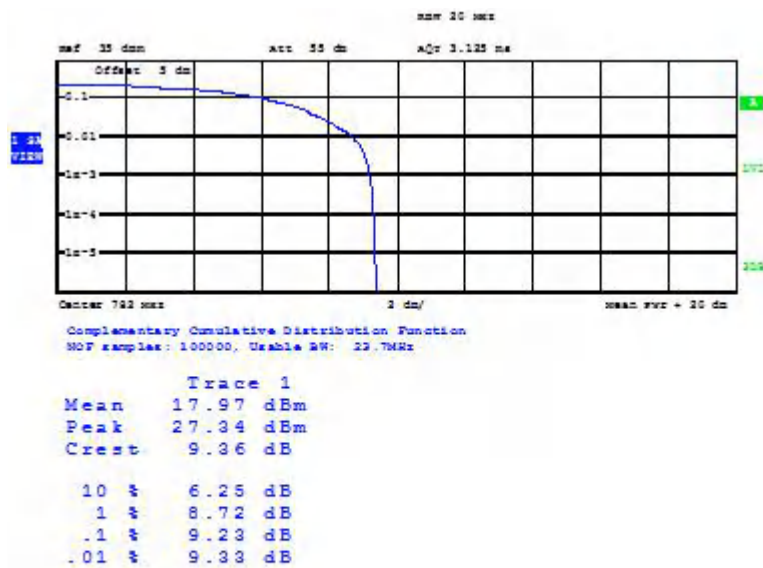
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:47:57

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



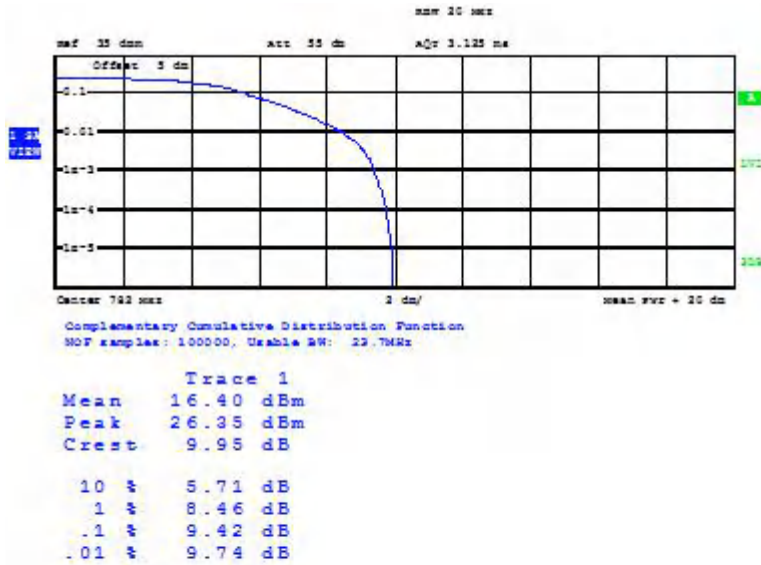
Date: 2.SEP.2020 00:48:29

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

Chongqing Academy of Information and Communication Technology

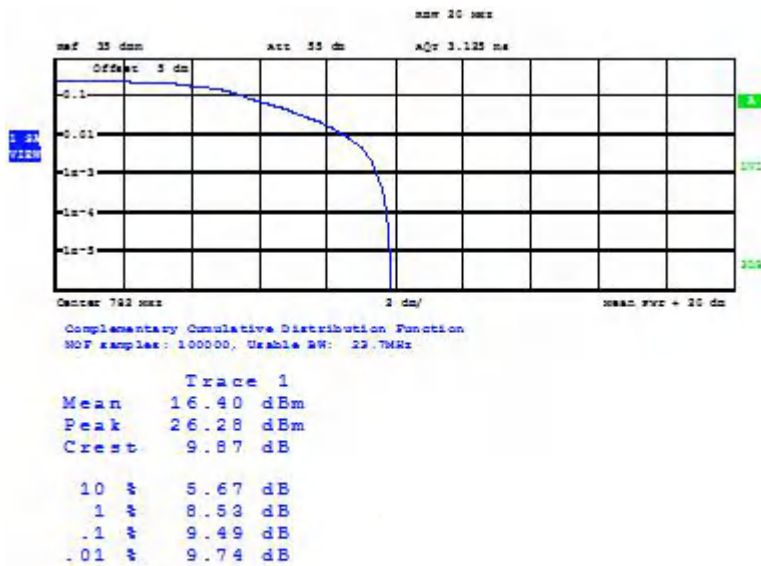
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 2.SEP.2020 00:49:30

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



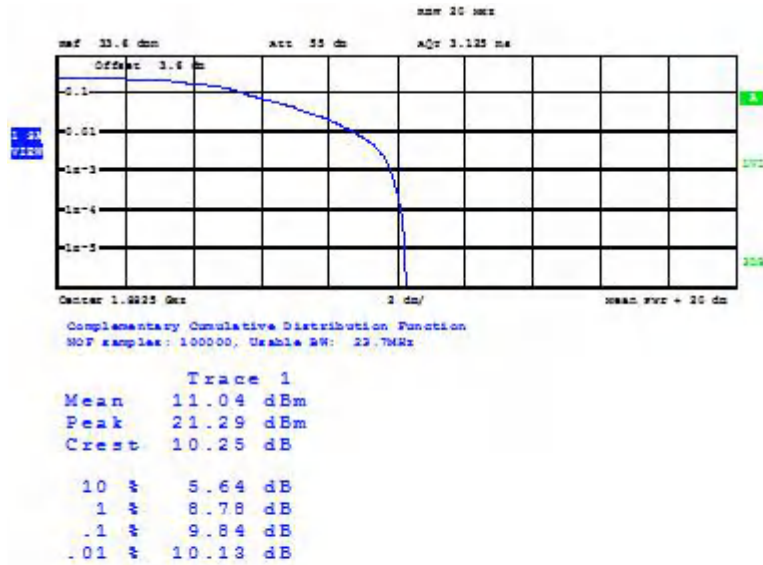
Date: 2.SEP.2020 00:49:05

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

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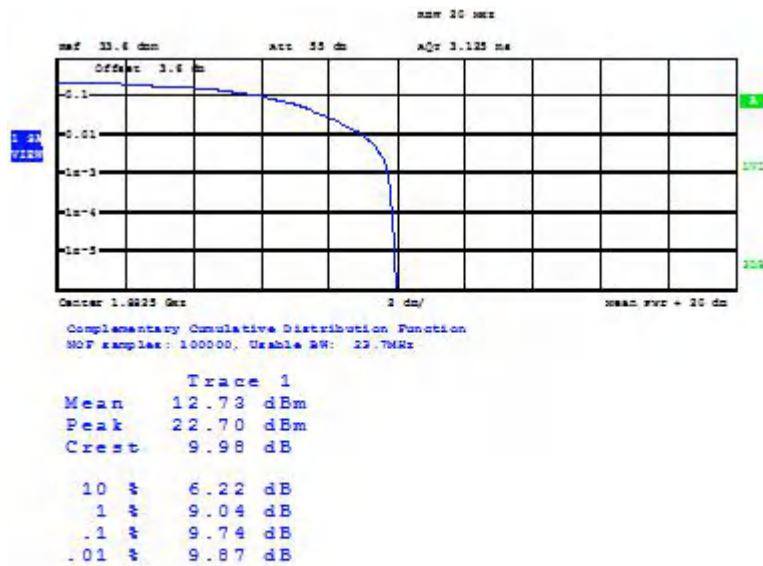
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:25:28

Band25-CH26365-1882.5MHz-1.4MHz Bandwidth-QPSK



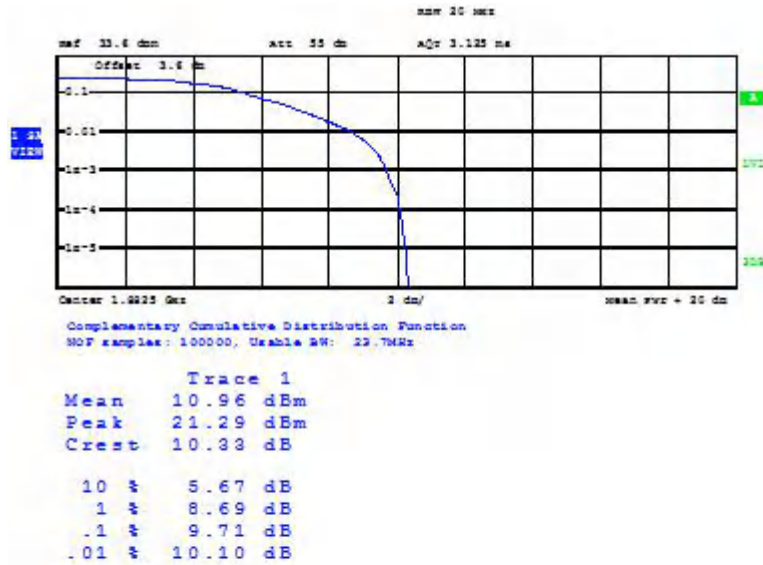
Date: 3.SEP.2020 16:25:57

Band25-CH26365-1882.5MHz-1.4MHz Bandwidth-16QAM

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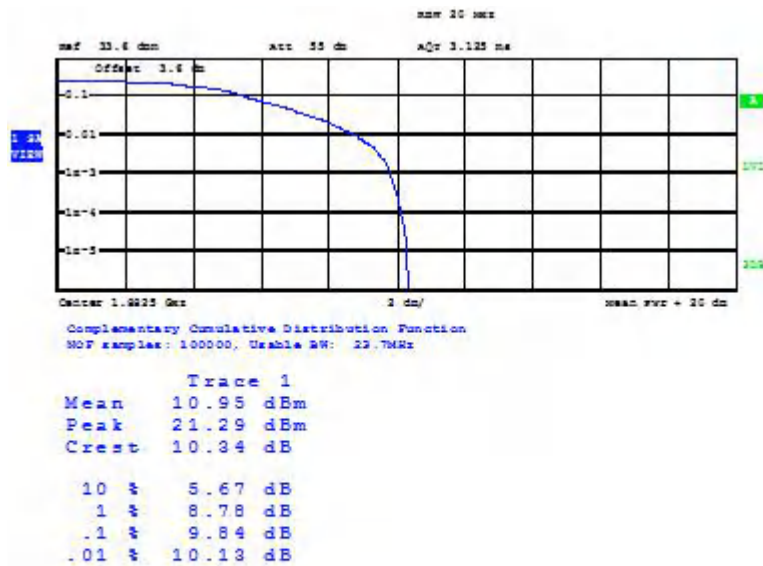
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:27:10

Band25-CH26365-1882.5MHz-3MHz Bandwidth-QPSK



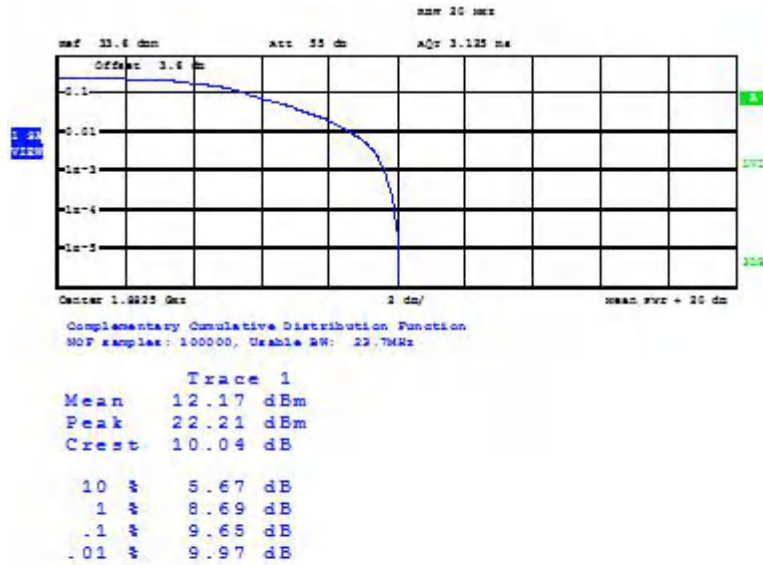
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Band25-CH26365-1882.5MHz-3MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

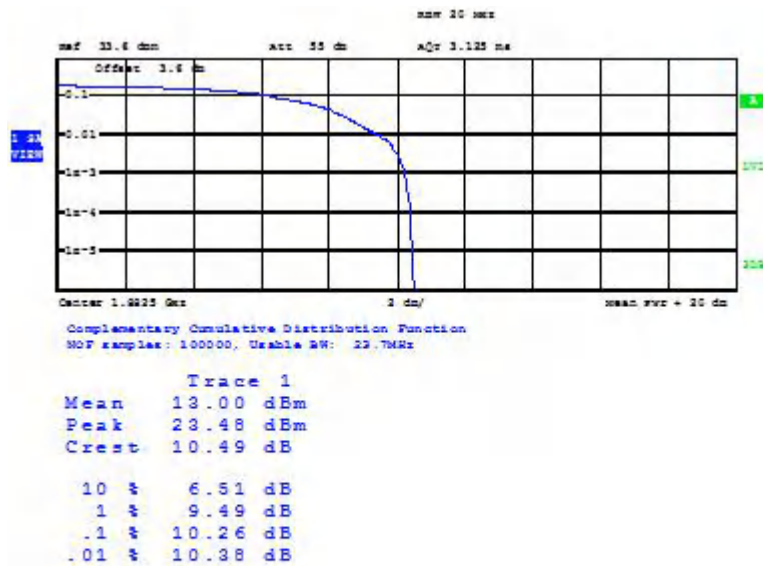
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:27:48

Band25-CH26365-1882.5MHz-5MHz Bandwidth-QPSK



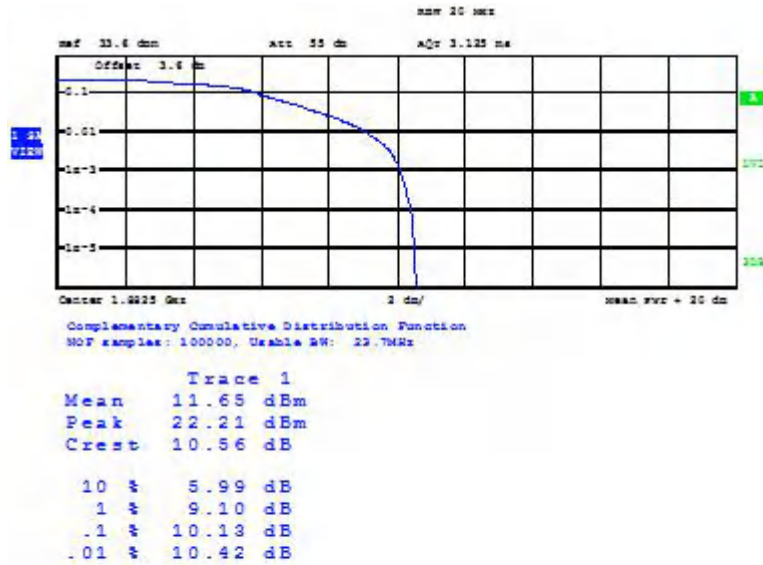
Date: 3.SEP.2020 16:28:11

Band25-CH26365-1882.5MHz-5MHz Bandwidth-16QAM

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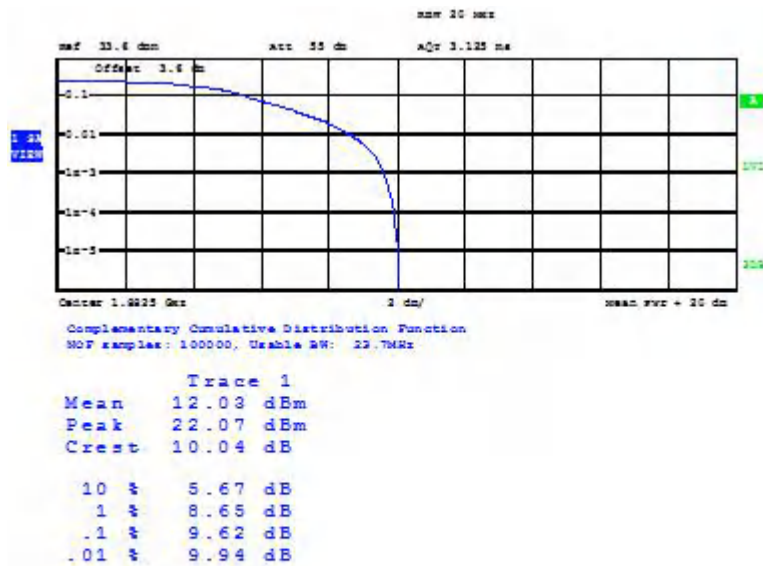
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:29:08

Band25-CH26365-1882.5MHz-10MHz Bandwidth-QPSK



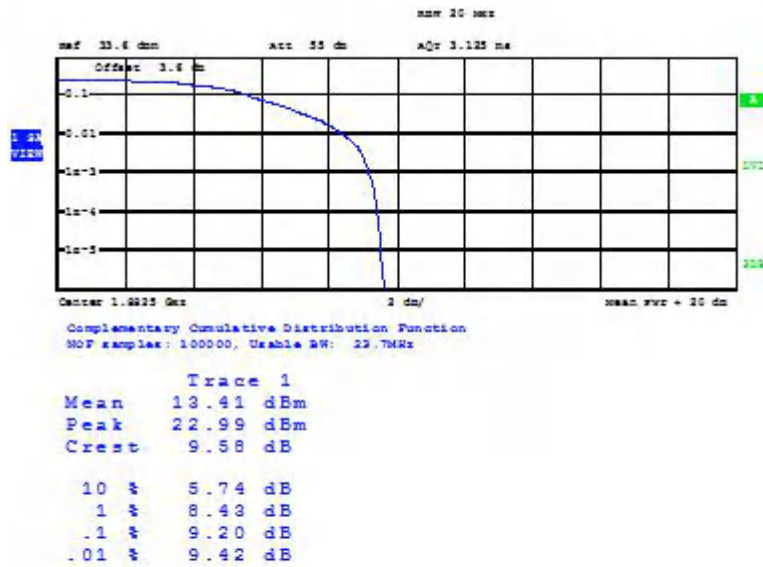
Date: 3.SEP.2020 16:28:43

Band25-CH26365-1882.5MHz-10MHz Bandwidth-16QAM

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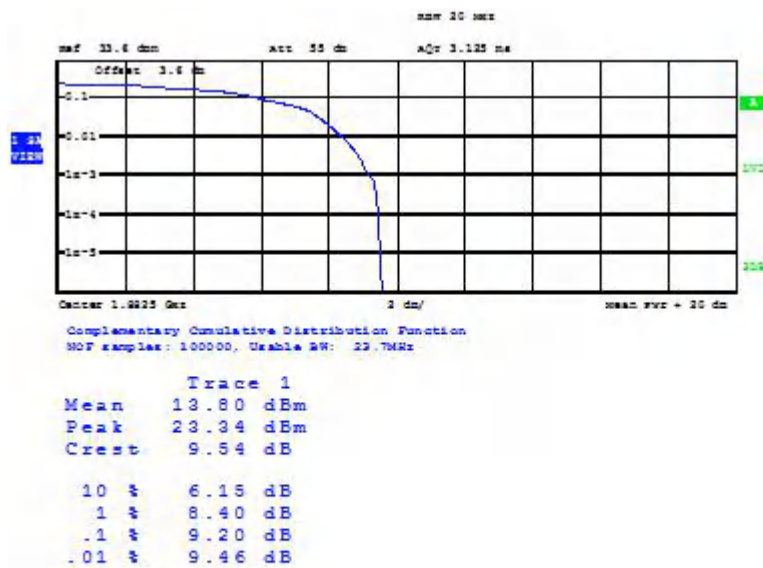
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:29:50

Band25-CH26365-1882.5MHz-15MHz Bandwidth-QPSK



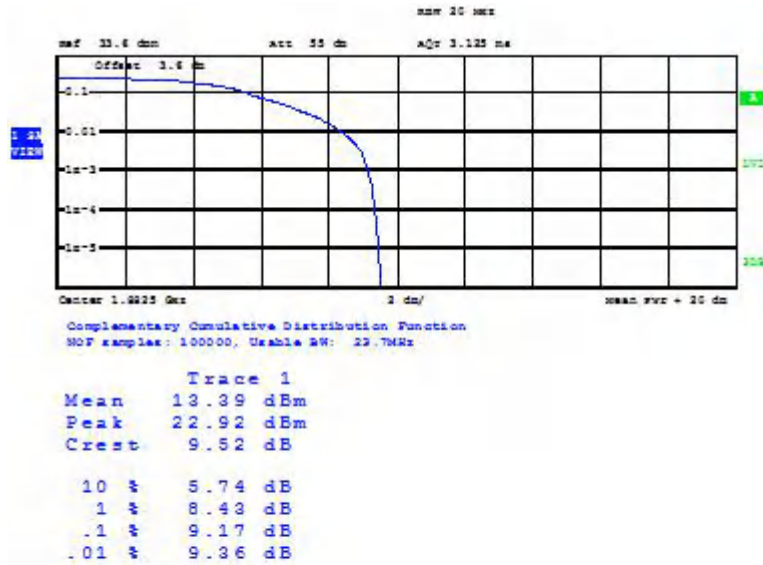
Date: 3.SEP.2020 16:31:29

Band25-CH26365-1882.5MHz-15MHz Bandwidth-16QAM

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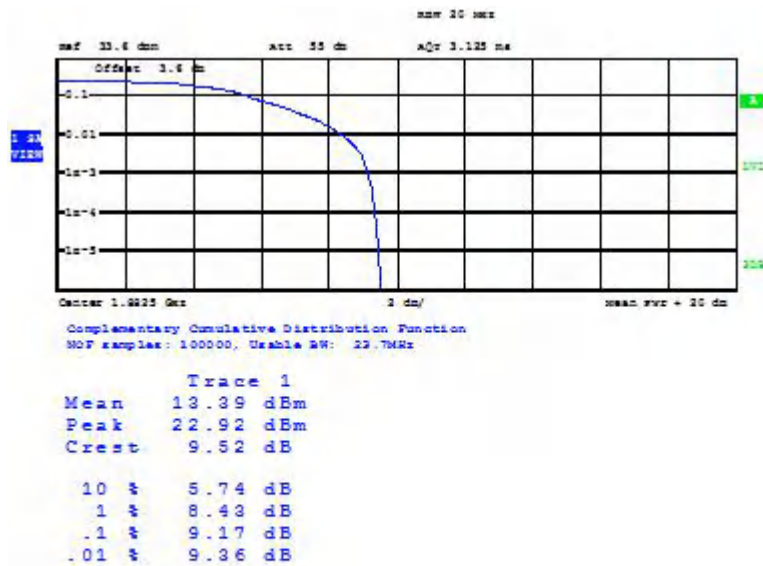
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:32:14

Band25-CH26365-1882.5MHz-20MHz Bandwidth-QPSK



Date: 3.SEP.2020 16:32:14

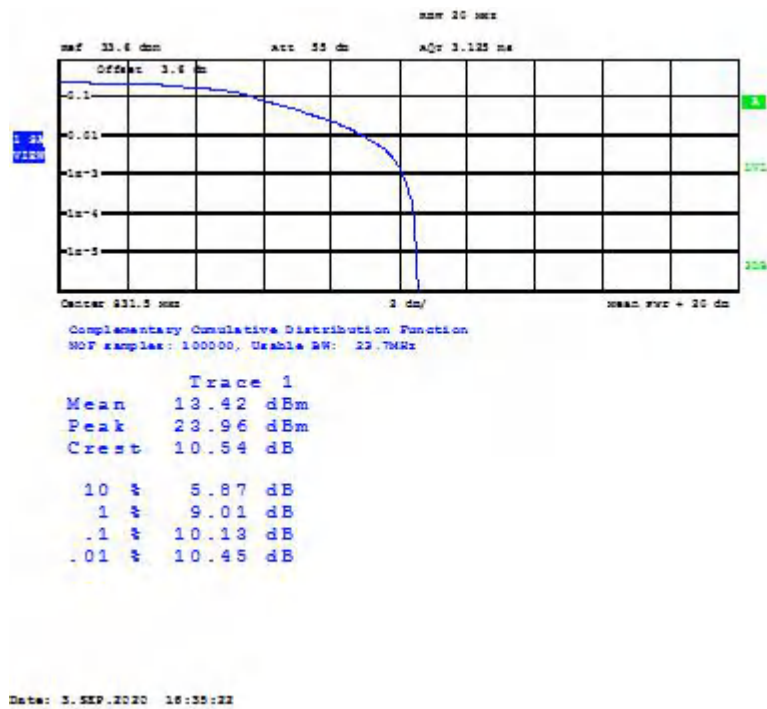
Band25-CH26365-1882.5MHz-20MHz Bandwidth-16QAM

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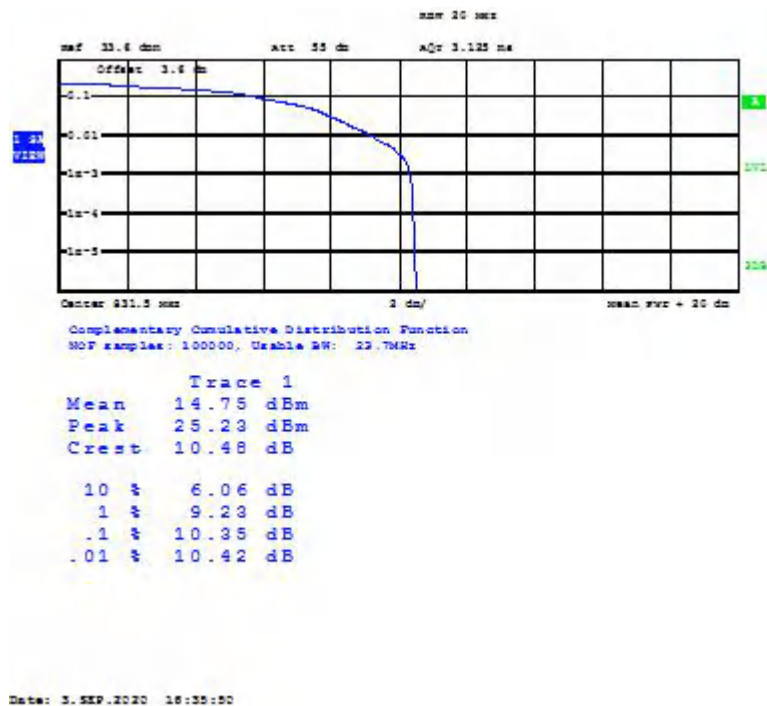
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I20W00014-WWAN_Rev2

Part(824MHz-849MHz)



Band26-CH26865-831.5MHz-1.4MHz Bandwidth-QPSK

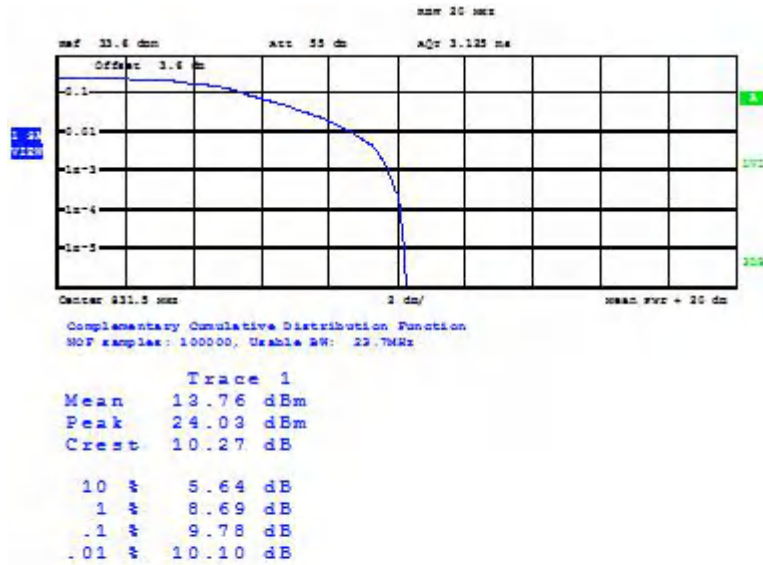


Band26-CH26865-831.5MHz-1.4MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

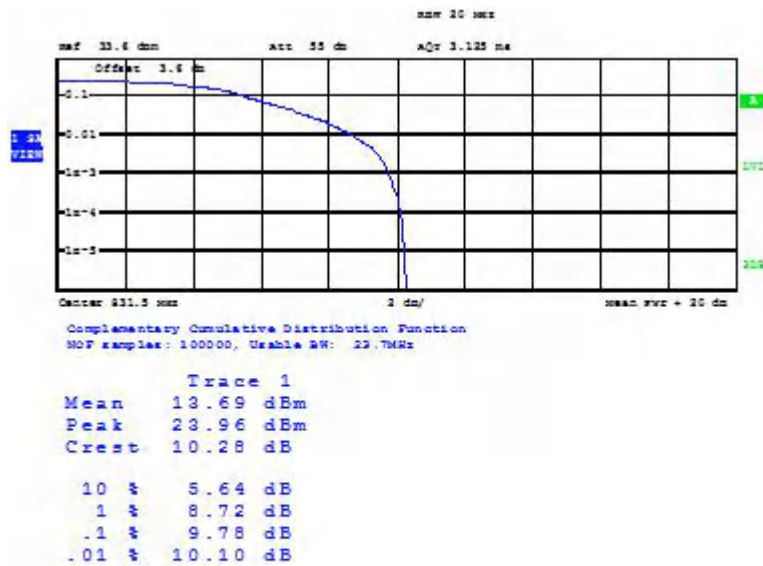
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:56:47

Band26-CH26865-831.5MHz-3MHz Bandwidth-QPSK



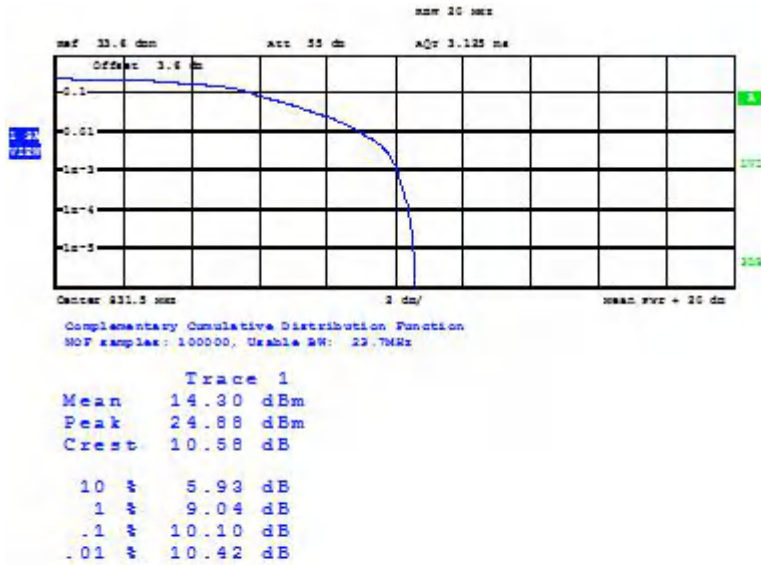
Date: 3.SEP.2020 16:56:21

Band26-CH26865-831.5MHz-3MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

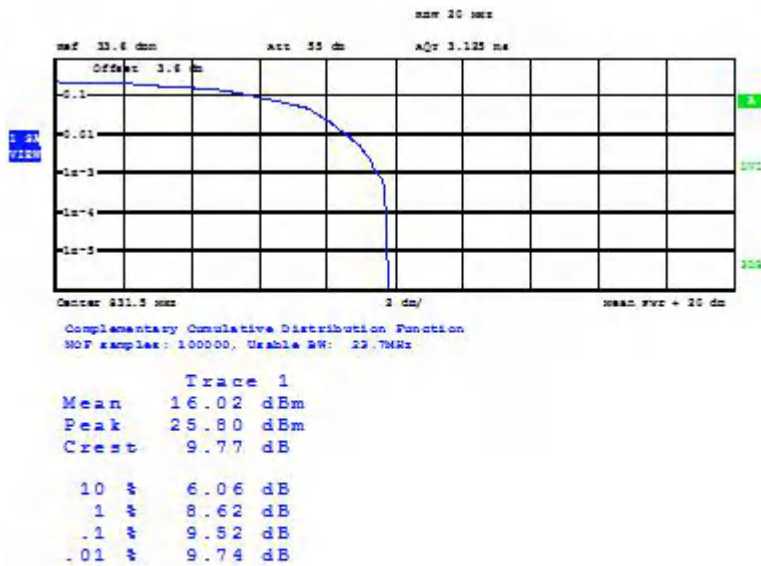
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:37:19

Band26-CH26865-831.5MHz-5MHz Bandwidth-QPSK



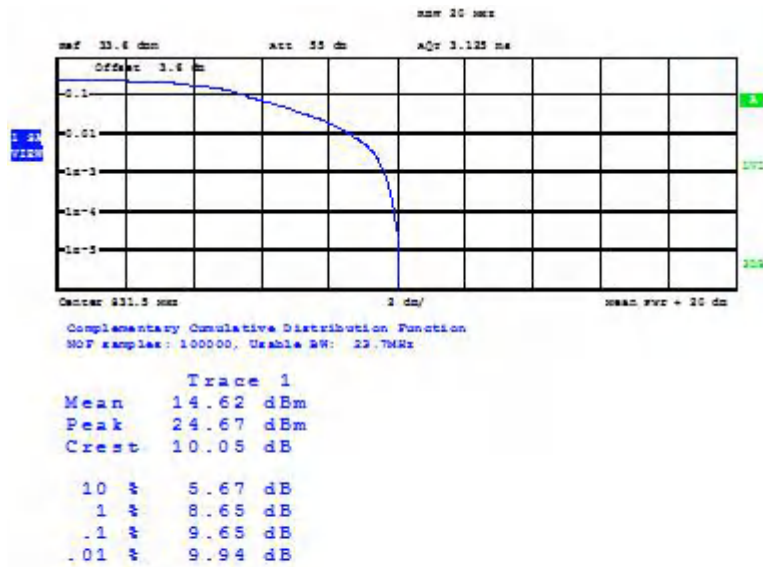
Date: 3.SEP.2020 16:38:09

Band26-CH26865-831.5MHz-5MHz Bandwidth-16QAM

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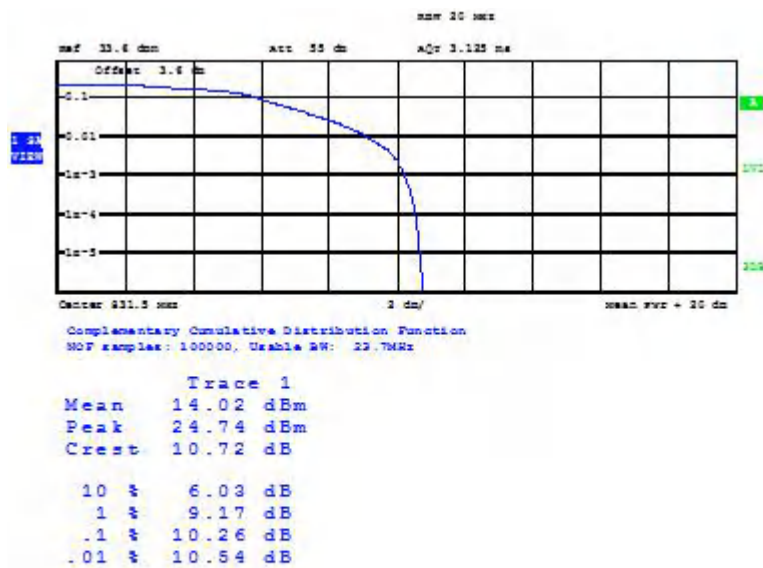
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:59:13

Band26-CH26865-831.5MHz-10MHz Bandwidth-QPSK



Date: 3.SEP.2020 16:58:47

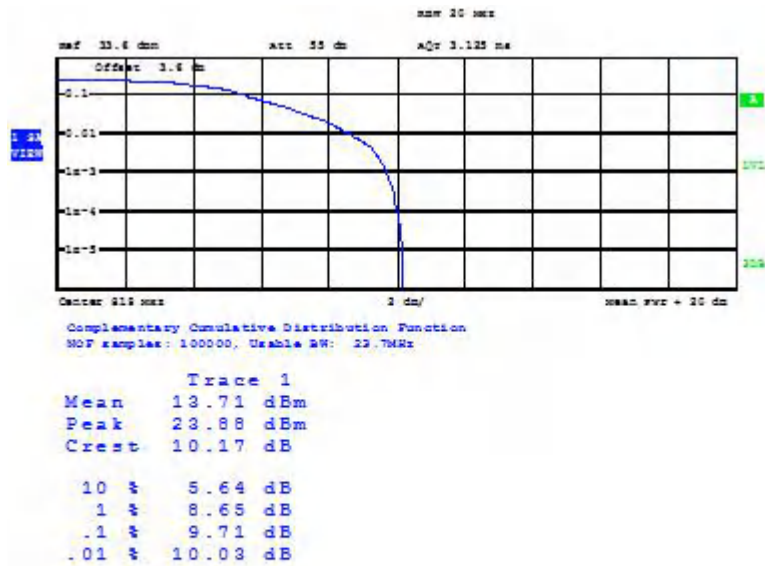
Band26-CH26865-831.5MHz-10MHz Bandwidth-16QAM

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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

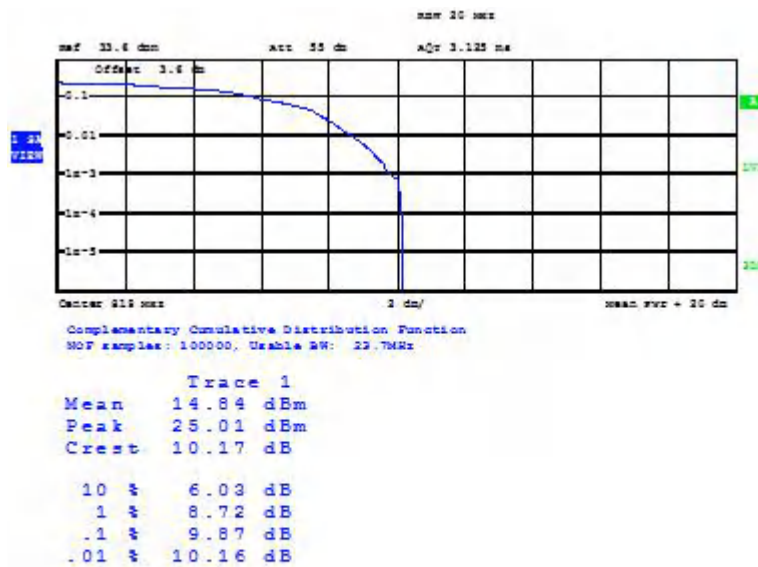
Report No.: I20W00014-WWAN_Rev2

Part(814MHz-824MHz)



Date: 3.SEP.2020 18:40:21

Band26-CH26740-819MHz-1.4MHz Bandwidth-QPSK



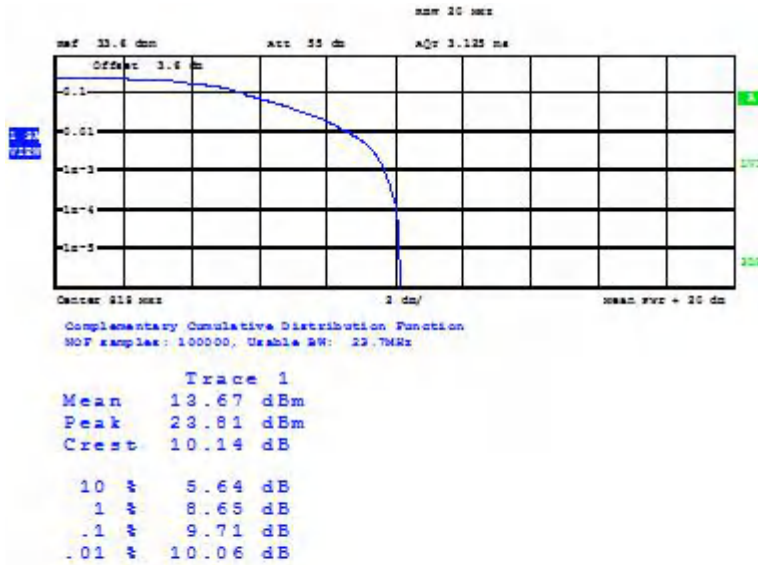
Date: 3.SEP.2020 18:40:55

Band26-CH26740-819MHz-1.4MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

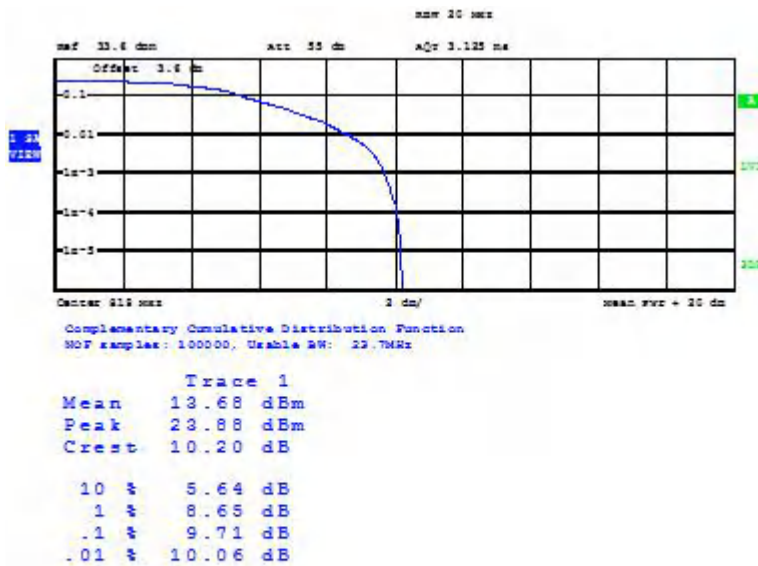
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:41:55

Band26-CH26740-819MHz-3MHz Bandwidth-QPSK



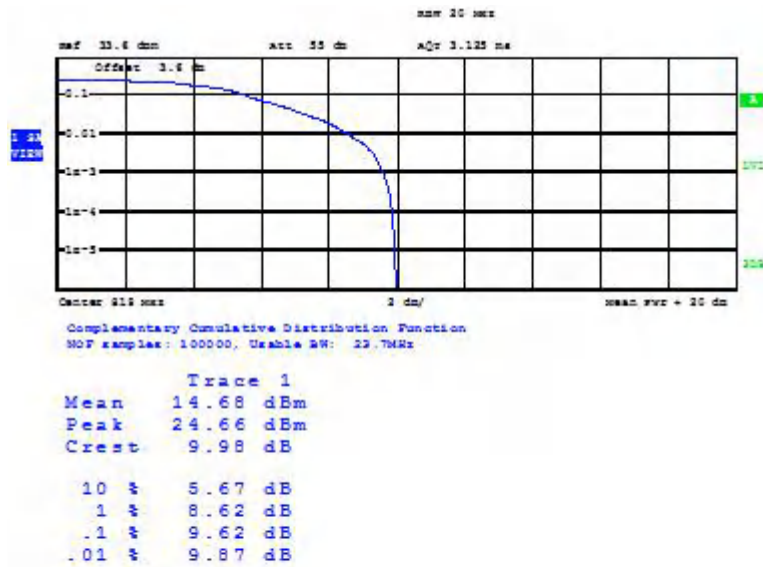
Date: 3.SEP.2020 16:41:25

Band26-CH26740-819MHz-3MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

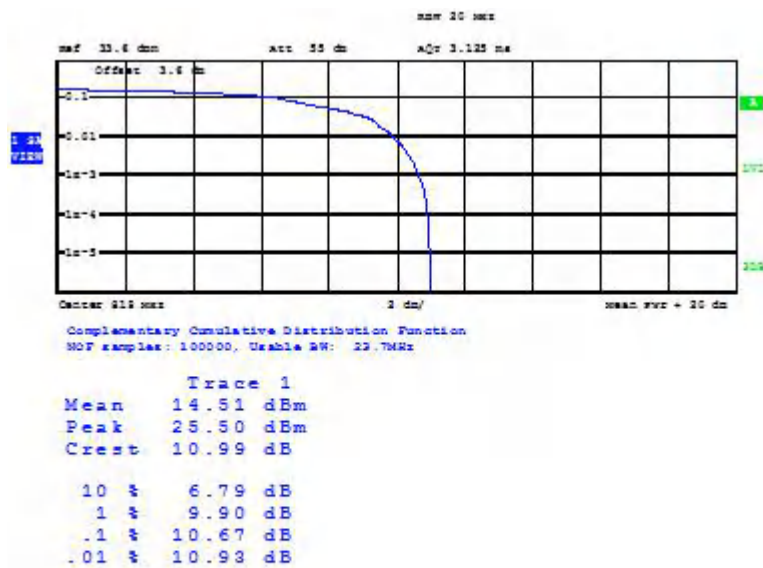
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:42:27

Band26-CH26740-819MHz-5MHz Bandwidth-QPSK



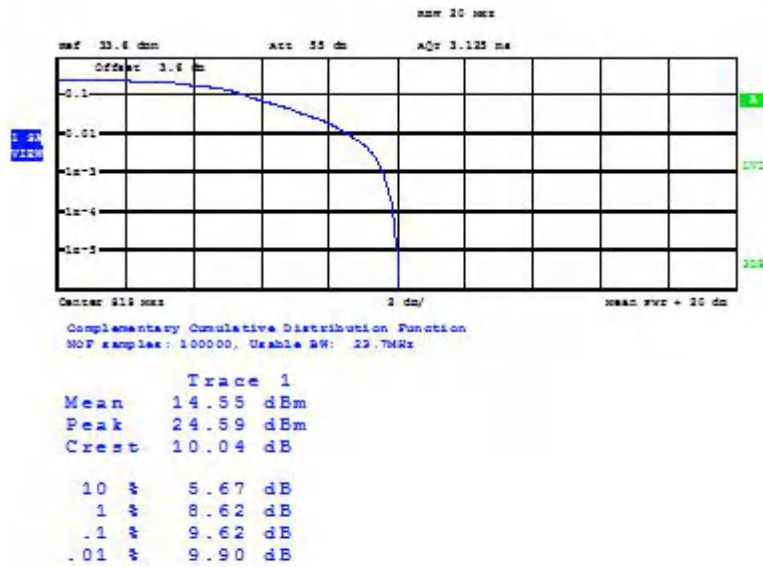
Date: 3.SEP.2020 16:43:00

Band26-CH26740-819MHz-5MHz Bandwidth-16QAM

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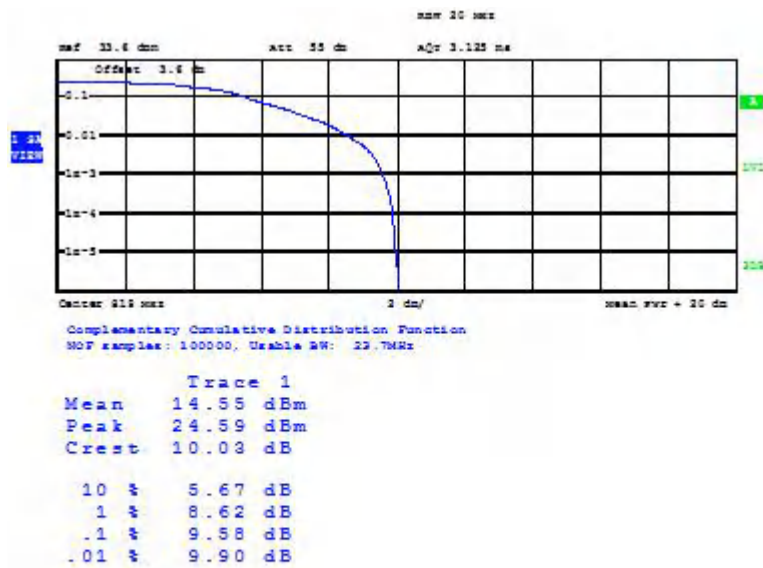
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
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Report No.: I20W00014-WWAN_Rev2



Date: 3.SEP.2020 16:44:28

Band26-CH26740-819MHz-10MHz Bandwidth-QPSK



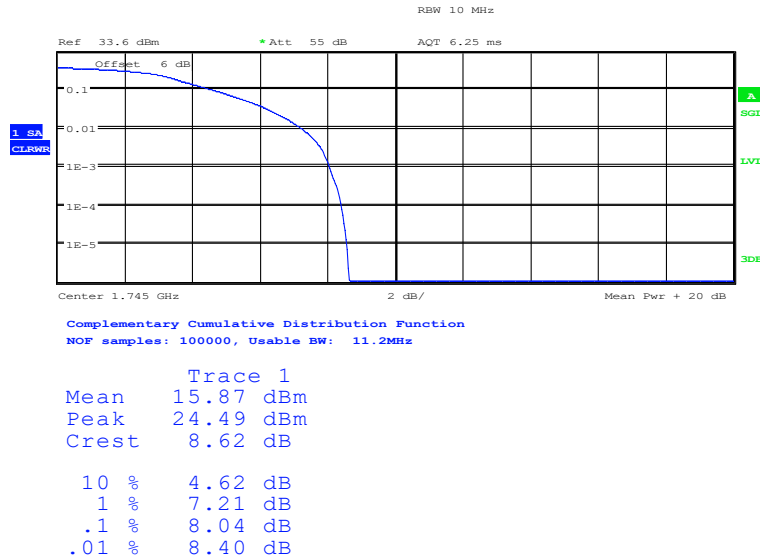
Date: 3.SEP.2020 16:44:03

Band26-CH26740-819MHz-10MHz Bandwidth-16QAM

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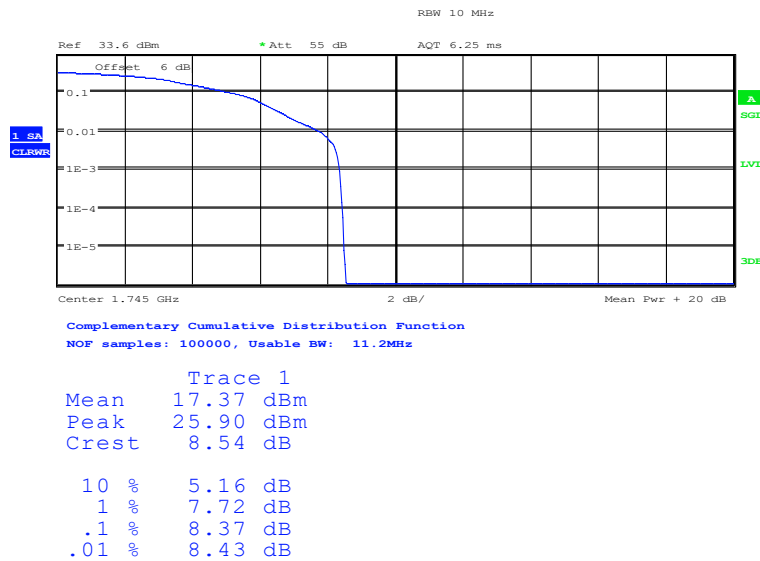
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 04:24:38

Band66-CH132322-1745MHz-1.4MHz Bandwidth-QPSK



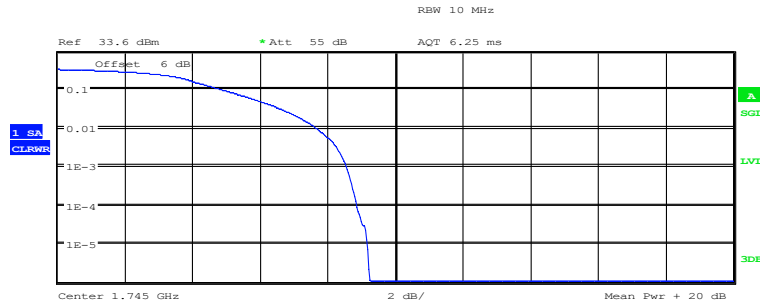
Date: 4.SEP.2020 04:25:52

Band66-CH132322-1745MHz-1.4MHz Bandwidth-16QAM

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Report No.: I20W00014-WWAN_Rev2



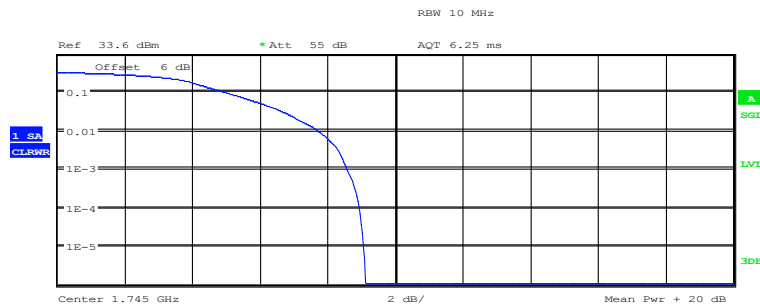
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 15.26 dBm
Peak 24.49 dBm
Crest 9.23 dB

10 % 4.94 dB
1 % 7.66 dB
.1 % 8.56 dB
.01 % 8.88 dB

Date: 4.SEP.2020 04:27:04

Band66-CH132322-1745MHz-3MHz Bandwidth-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 16.21 dBm
Peak 25.34 dBm
Crest 9.12 dB

10 % 5.03 dB
1 % 7.72 dB
.1 % 8.59 dB
.01 % 8.94 dB

Date: 4.SEP.2020 04:27:38

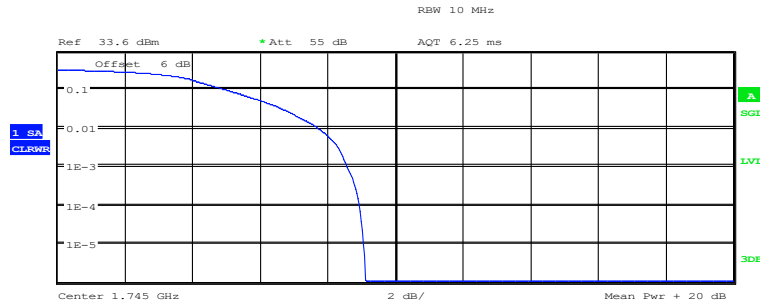
Band66-CH132322-1745MHz-3MHz Bandwidth-16QAM

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Report No.: I20W00014-WWAN_Rev2



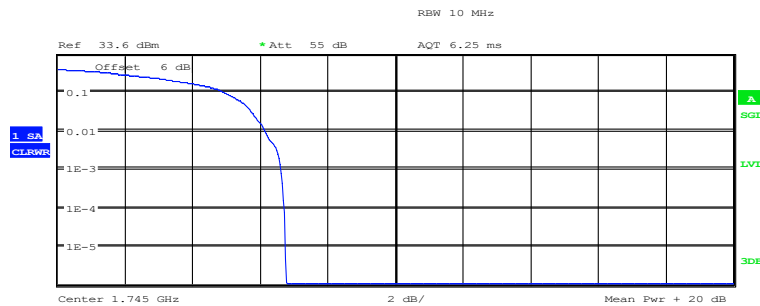
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 16.21 dBm
Peak 25.34 dBm
Crest 9.12 dB

10 % 5.03 dB
1 % 7.72 dB
.1 % 8.59 dB
.01 % 8.94 dB

Date: 4.SEP.2020 04:27:56

Band66-CH132322-1745MHz-5MHz Bandwidth-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 18.16 dBm
Peak 24.91 dBm
Crest 6.75 dB

10 % 4.97 dB
1 % 6.15 dB
.1 % 6.63 dB
.01 % 6.73 dB

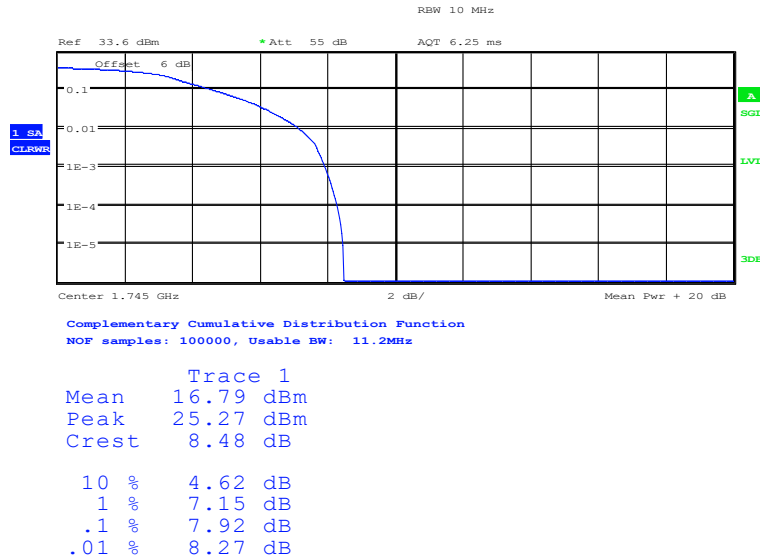
Date: 4.SEP.2020 04:28:12

Band66-CH132322-1745MHz-5MHz Bandwidth-16QAM

Chongqing Academy of Information and Communication Technology

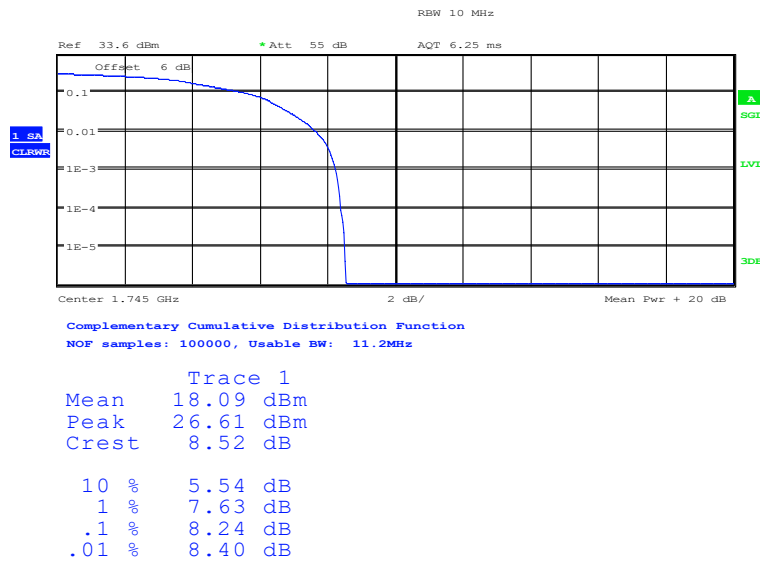
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Report No.: I20W00014-WWAN_Rev2



Date: 4.SEP.2020 04:28:54

Band66-CH132322-1745MHz-10MHz Bandwidth-QPSK



Date: 4.SEP.2020 04:28:37

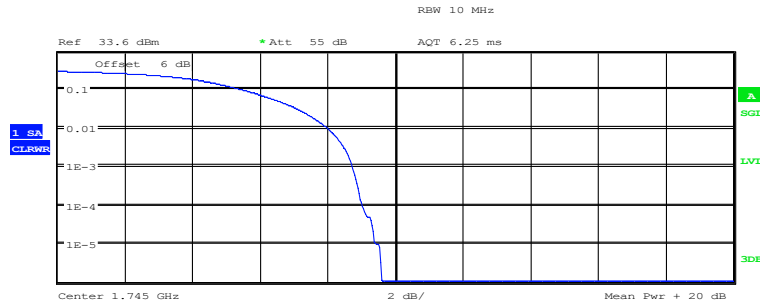
Band66-CH132322-1745MHz-10MHz Bandwidth-16QAM

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Report No.: I20W00014-WWAN_Rev2



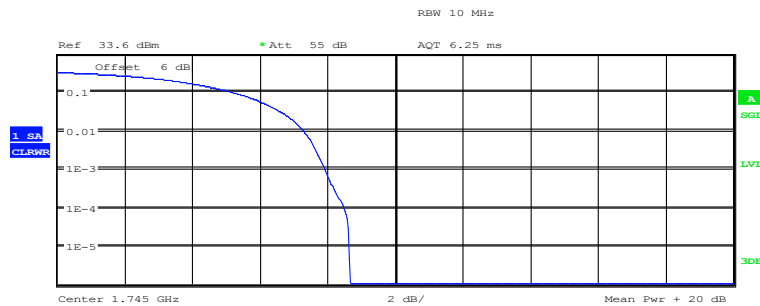
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 11.23 dBm
Peak 20.82 dBm
Crest 9.59 dB

10 % 5.51 dB
1 % 7.98 dB
.1 % 8.72 dB
.01 % 9.04 dB

Date: 4.SEP.2020 04:29:20

Band66-CH132322-1745MHz-15MHz Bandwidth-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 12.39 dBm
Peak 21.03 dBm
Crest 8.65 dB

10 % 5.26 dB
1 % 7.28 dB
.1 % 7.92 dB
.01 % 8.49 dB

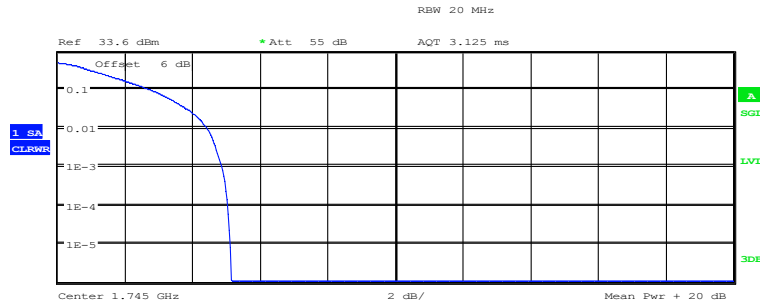
Date: 4.SEP.2020 04:29:39

Band66-CH132322-1745MHz-15MHz Bandwidth-16QAM

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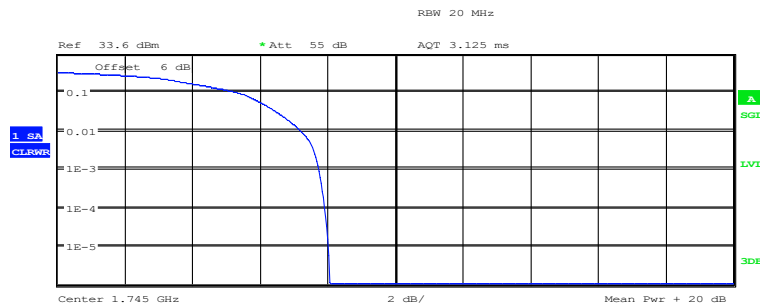
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 20.70 dBm
Peak 25.84 dBm
Crest 5.14 dB

10 % 2.79 dB
1 % 4.42 dB
.1 % 4.87 dB
.01 % 5.03 dB

Date: 4.SEP.2020 04:31:23

Band66-CH132322-1745MHz-20MHz Bandwidth-QPSK



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1
Mean 18.42 dBm
Peak 26.48 dBm
Crest 8.05 dB

10 % 5.35 dB
1 % 7.18 dB
.1 % 7.76 dB
.01 % 7.92 dB

Date: 4.SEP.2020 04:30:58

Band66-CH132322-1745MHz-20MHz Bandwidth-16QAM

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Annex A EUT Photos

See the document "L720-External Photos".

See the document "L720-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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