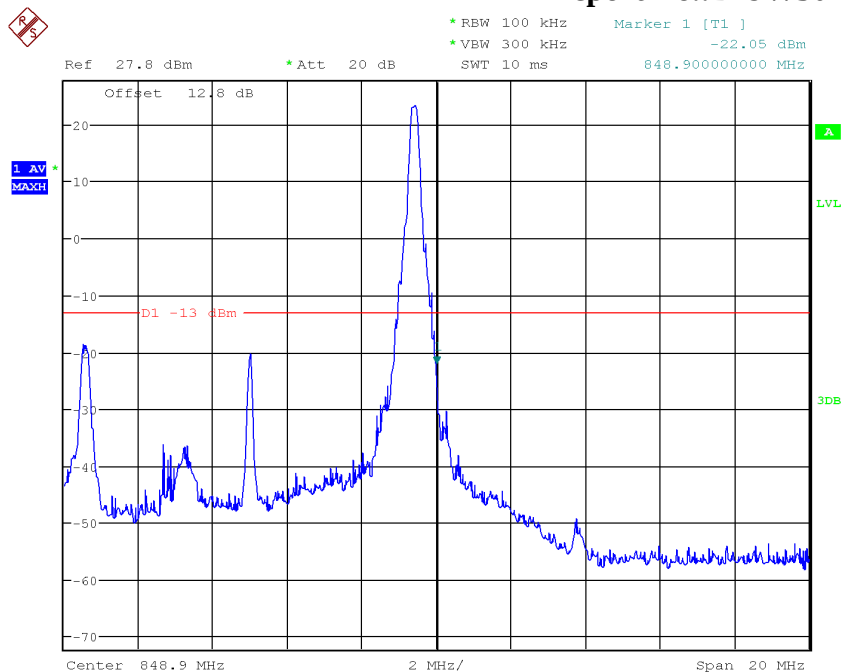
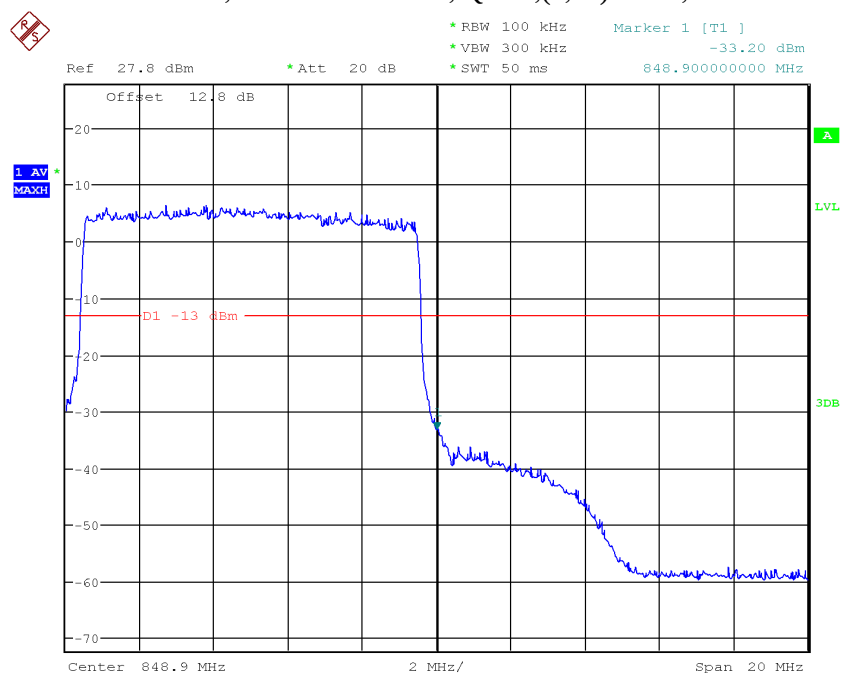


Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:18:07

LTE Band5, 10MHz bandwidth, QPSK,(1,50) Mode, Above 849MHz



Date: 28.APR.2019 22:53:59

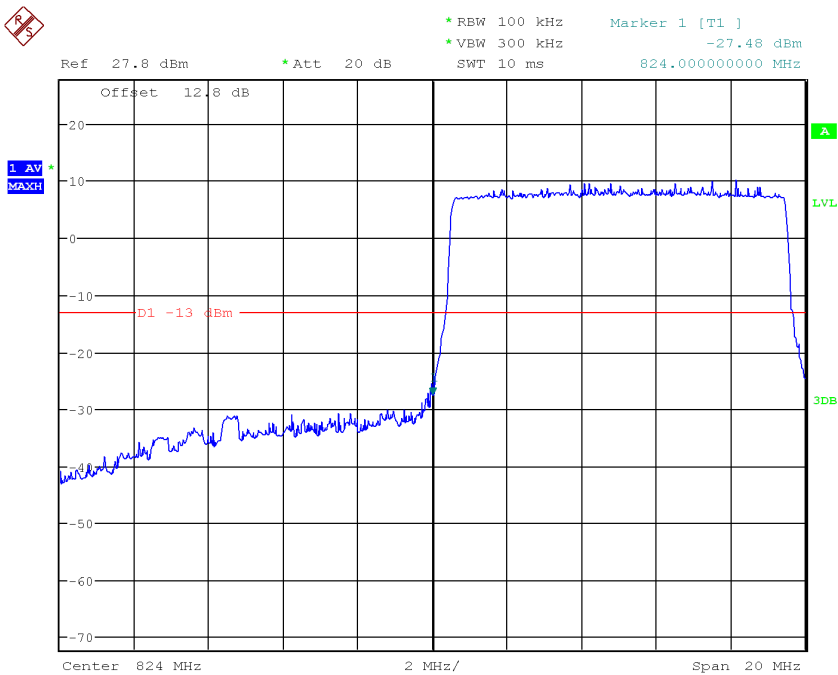
LTE Band5, 10MHz bandwidth, QPSK,(50,0) Mode, Above 849MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:16:57

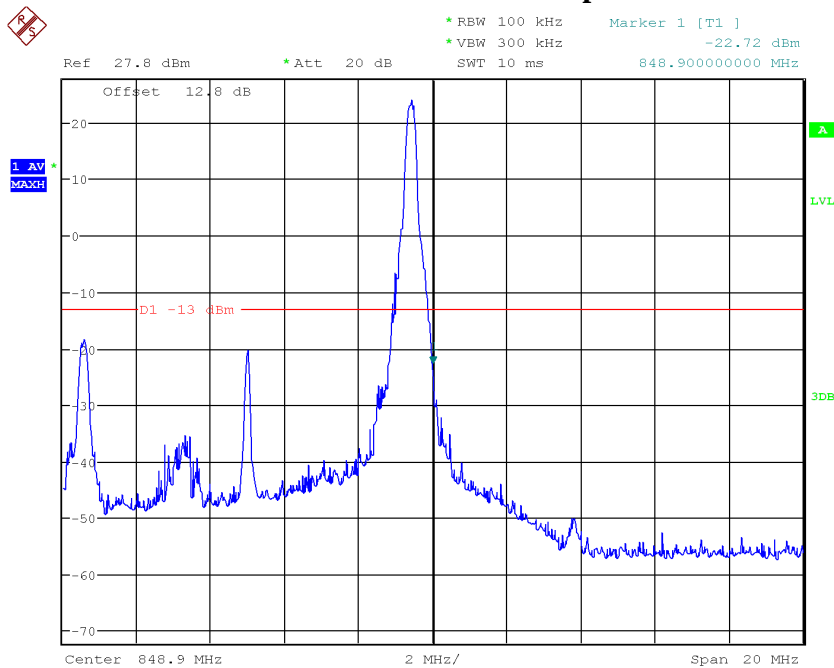
LTE Band5, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz



Date: 28.APR.2019 22:16:44

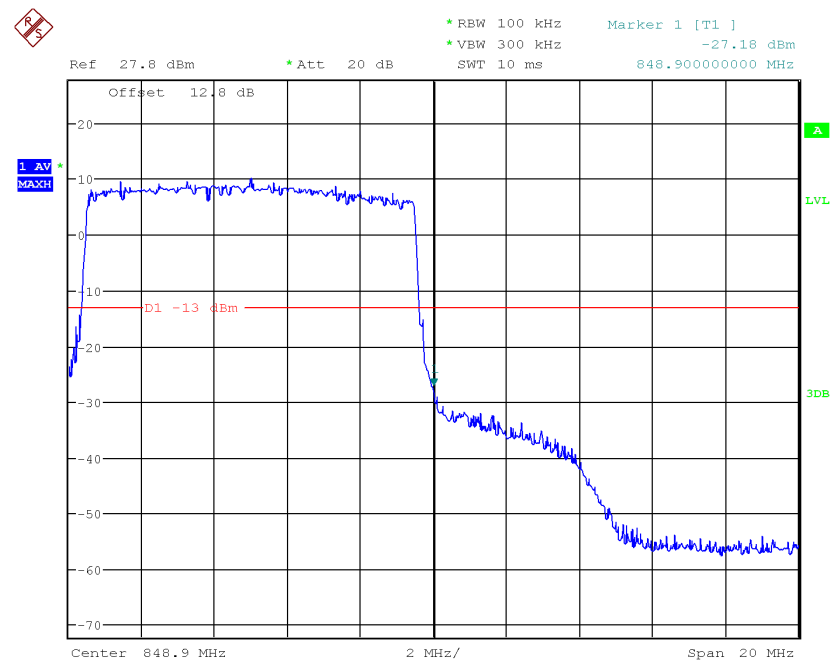
LTE Band5, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 824MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:18:24

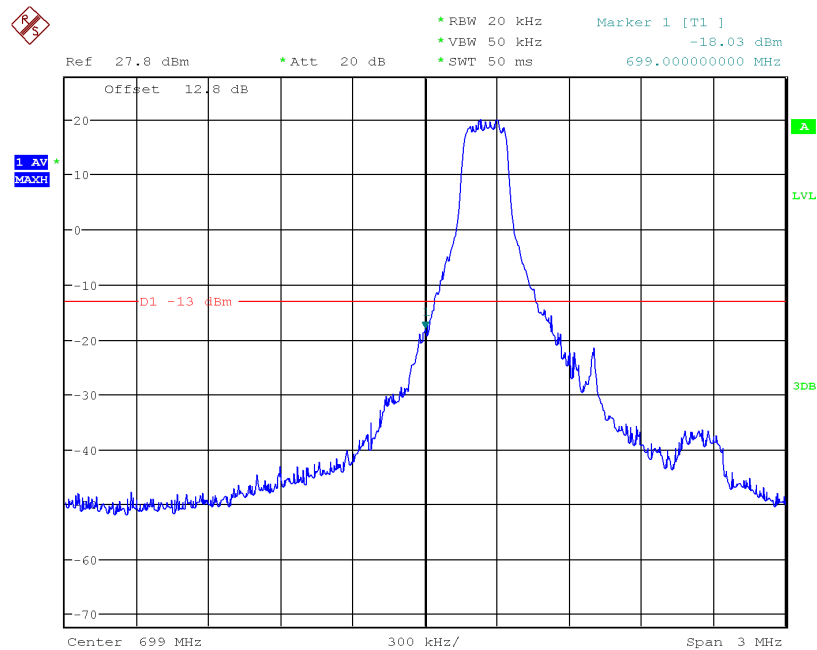
LTE Band5, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 849MHz



Date: 28.APR.2019 22:18:37

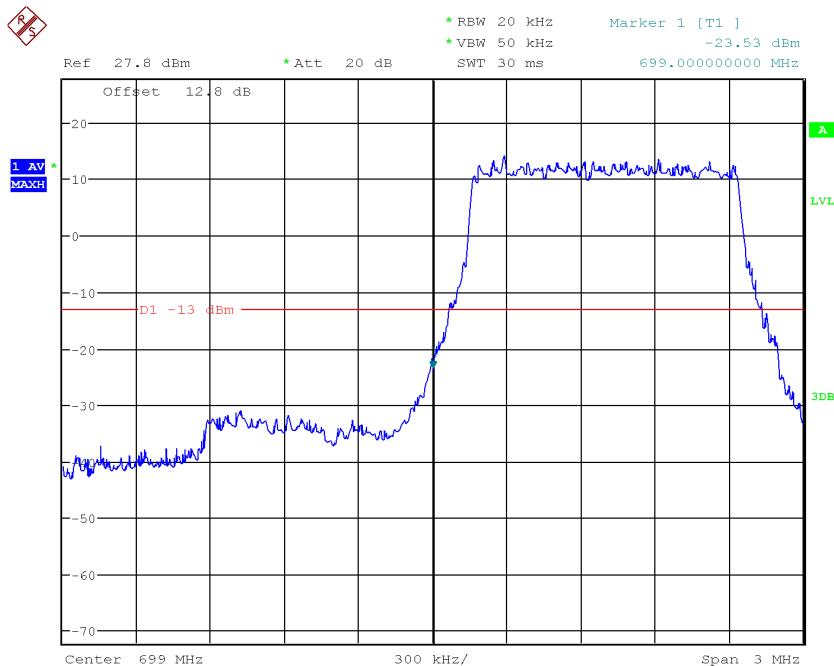
LTE Band5, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 849MHz

5.5.8 LTE B12 Band Edge Results



Date: 28.APR.2019 22:20:49

LTE Band12, 1.4MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz

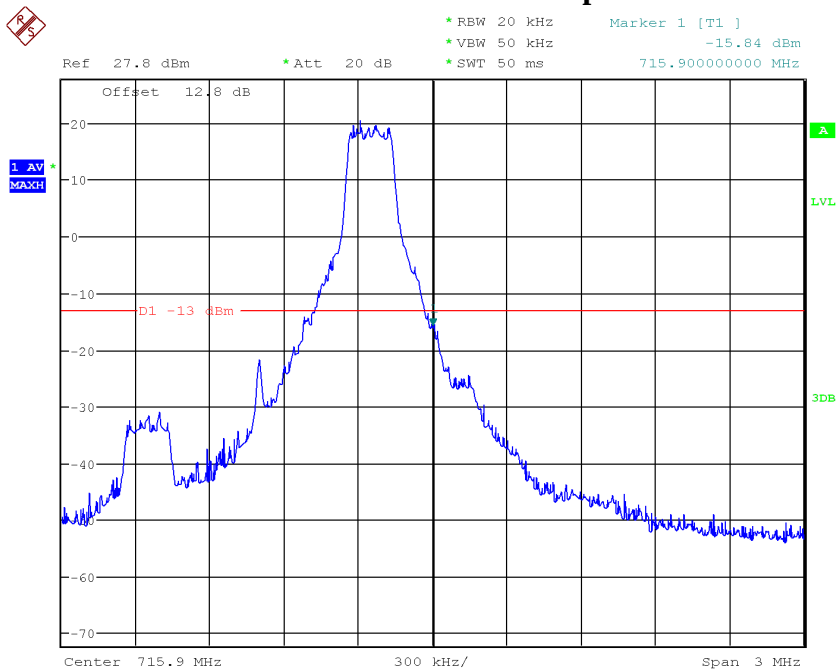


Date: 28.APR.2019 22:20:14

LTE Band12, 1.4MHz bandwidth, QPSK,(6,0) Mode , Below 699MHz

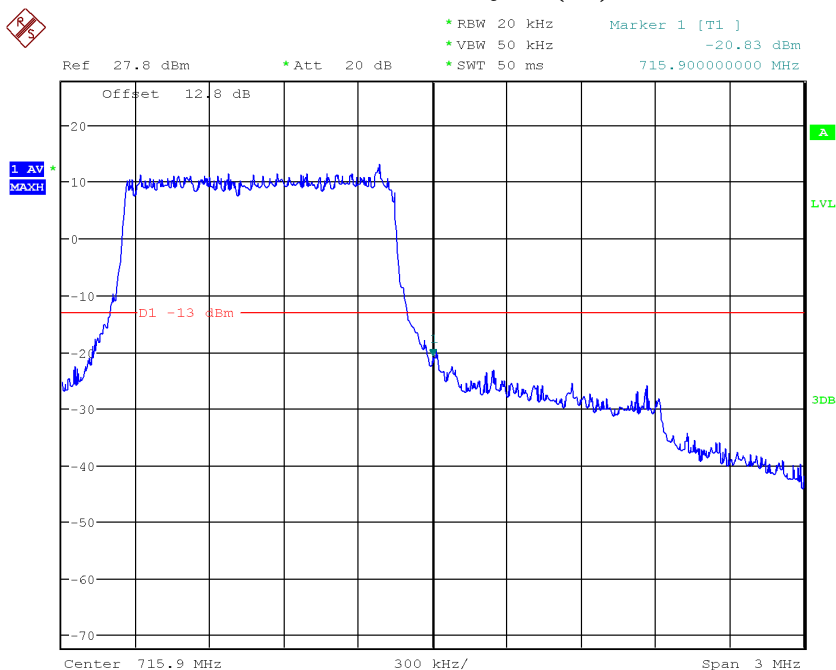
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:22:11

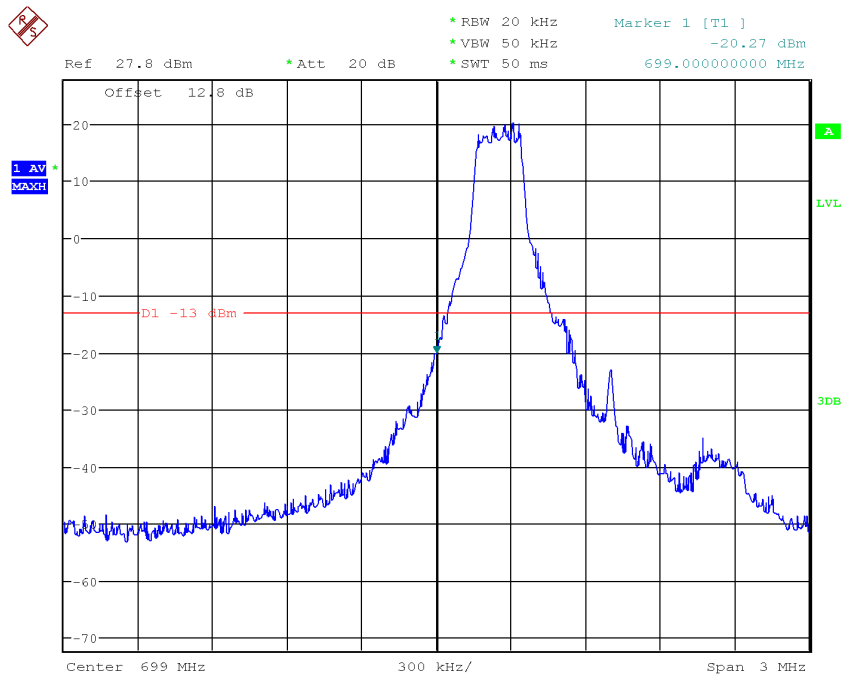
LTE Band12, 1.4MHz bandwidth, QPSK,(1,6) Mode, Above 716MHz



Date: 28.APR.2019 22:22:24

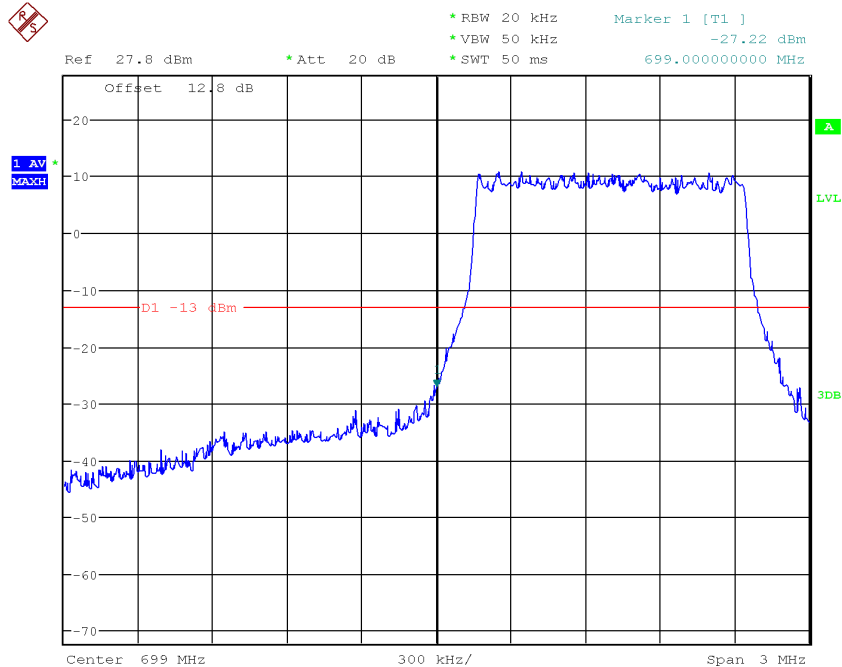
LTE Band12, 1.4MHz bandwidth, QPSK,(6,0) Mode, Above716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:21:05

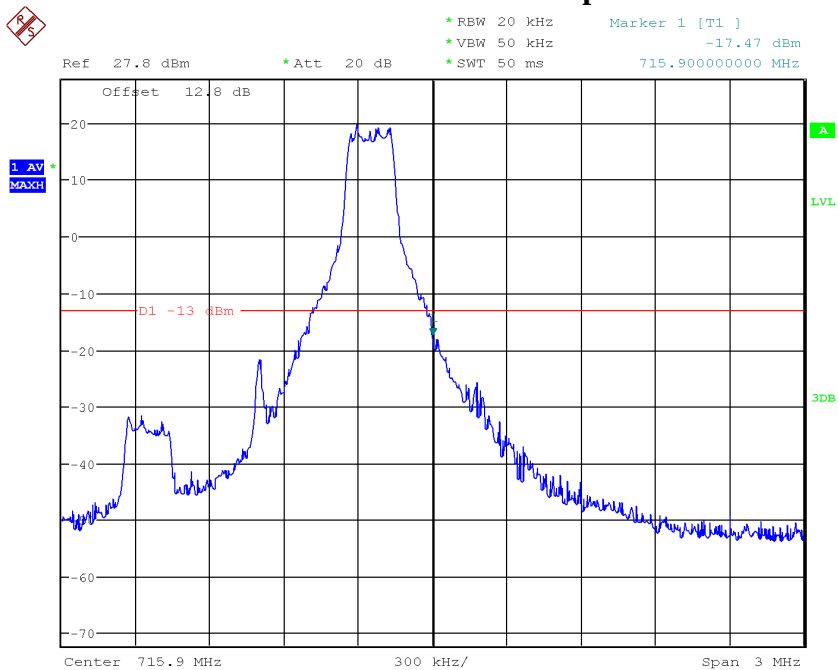
LTE Band12, 1.4MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:21:16

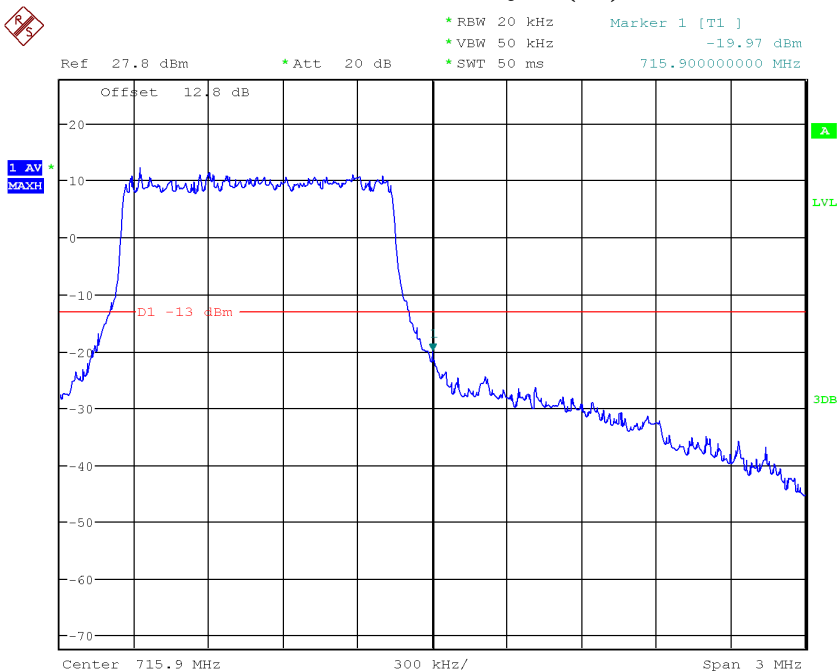
LTE Band12, 1.4MHz bandwidth, 16QAM,(6,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:22:00

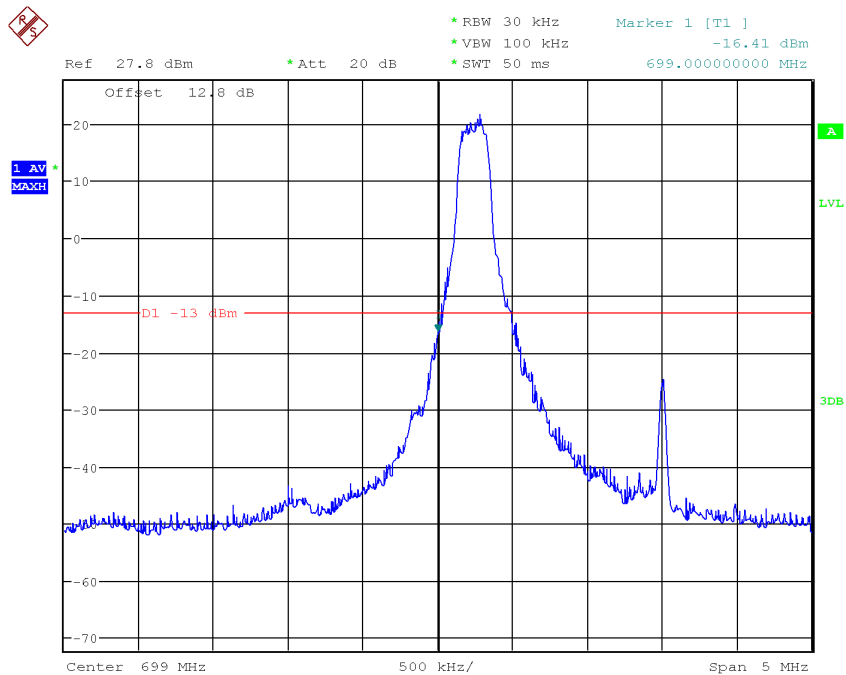
LTE Band12, 1.4MHz bandwidth, 16QAM,(1,6) Mode, Above 716MHz



Date: 28.APR.2019 22:21:43

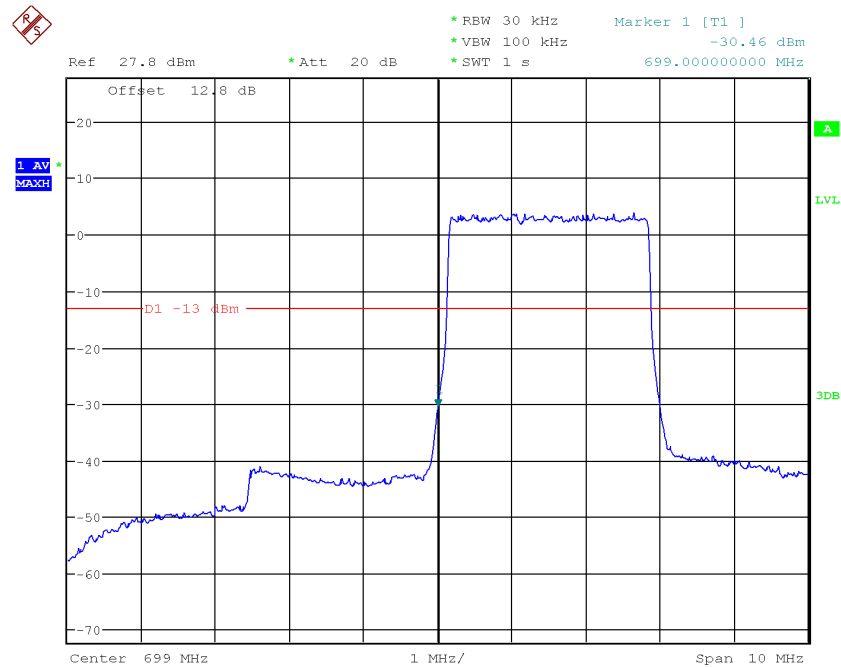
LTE Band12, 1.4MHz bandwidth, 16QAM,(6,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:52:59

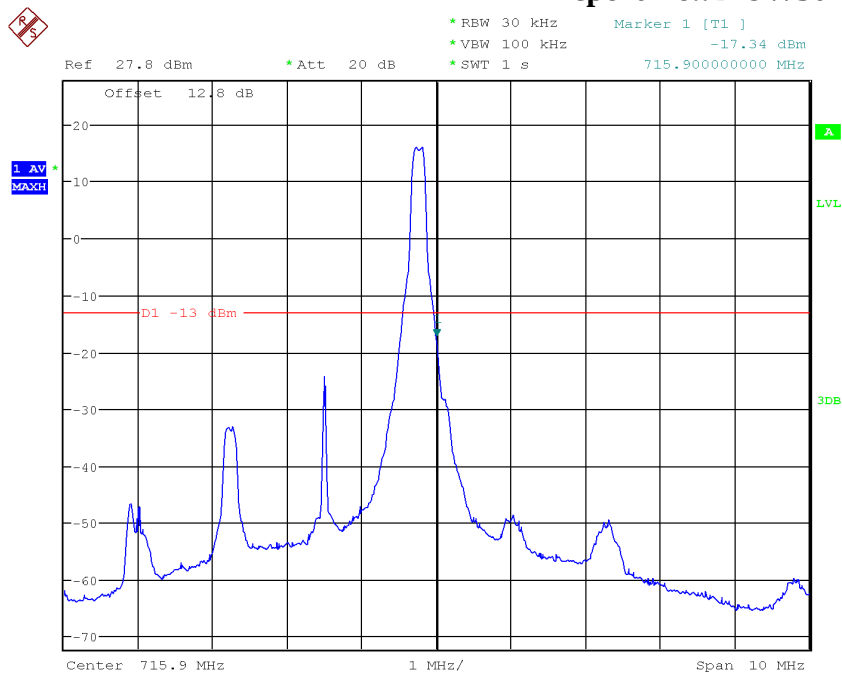
LTE Band12, 3MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:27:15

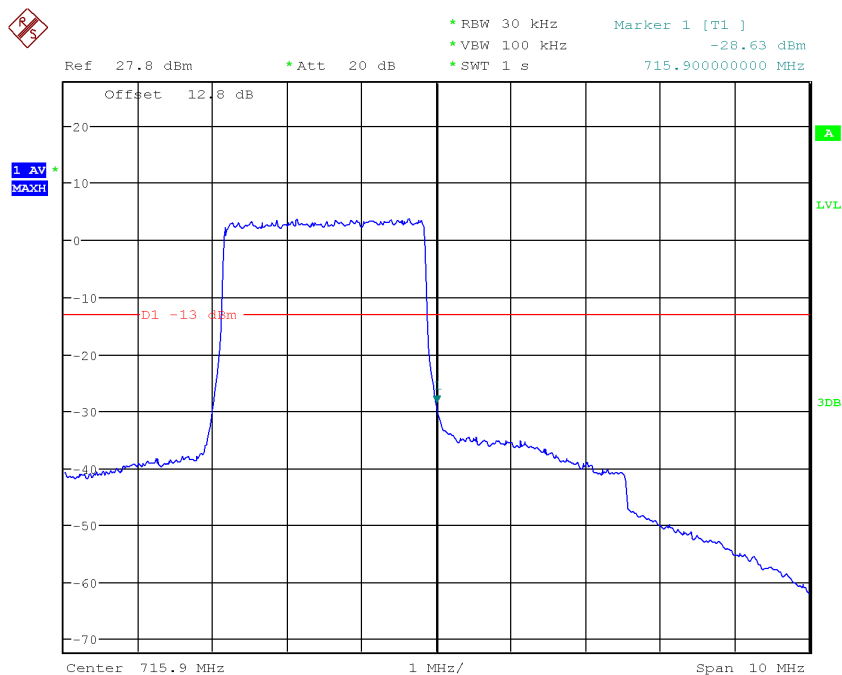
LTE Band12, 3MHz bandwidth, QPSK,(15,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:26:21

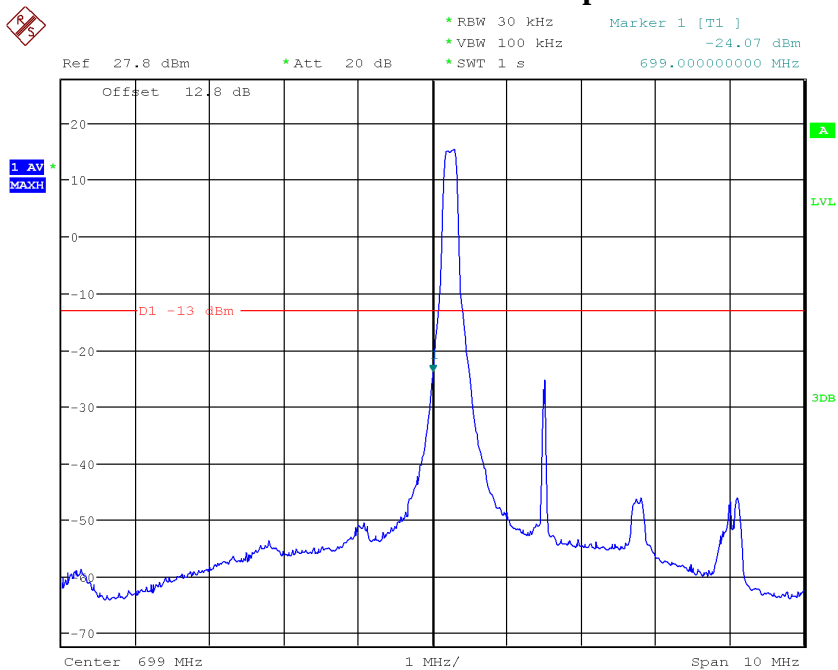
LTE Band12, 3MHz bandwidth, QPSK,(1,15) Mode, Above 716MHz



Date: 28.APR.2019 22:26:10

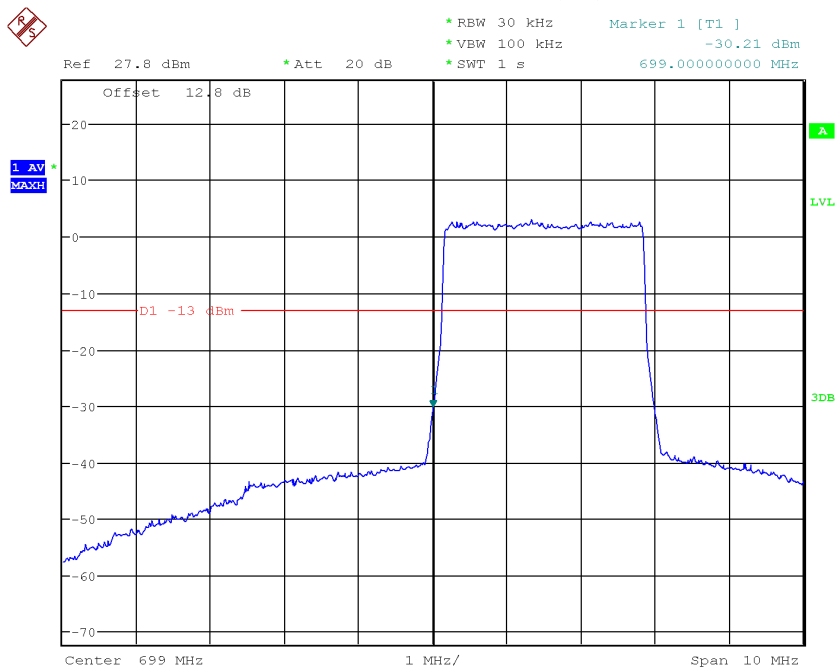
LTE Band12, 3MHz bandwidth, QPSK,(15,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:27:42

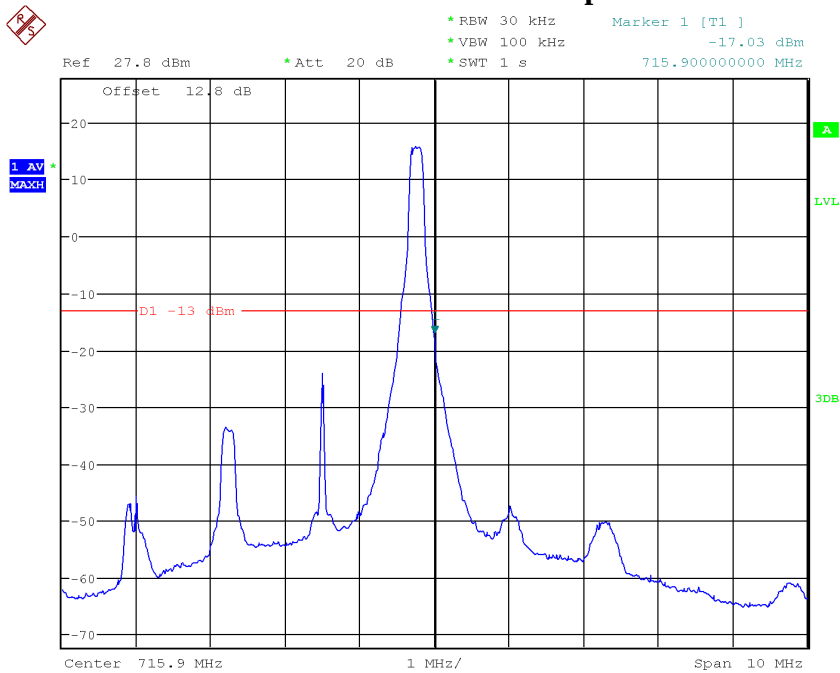
LTE Band12, 3MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:27:32

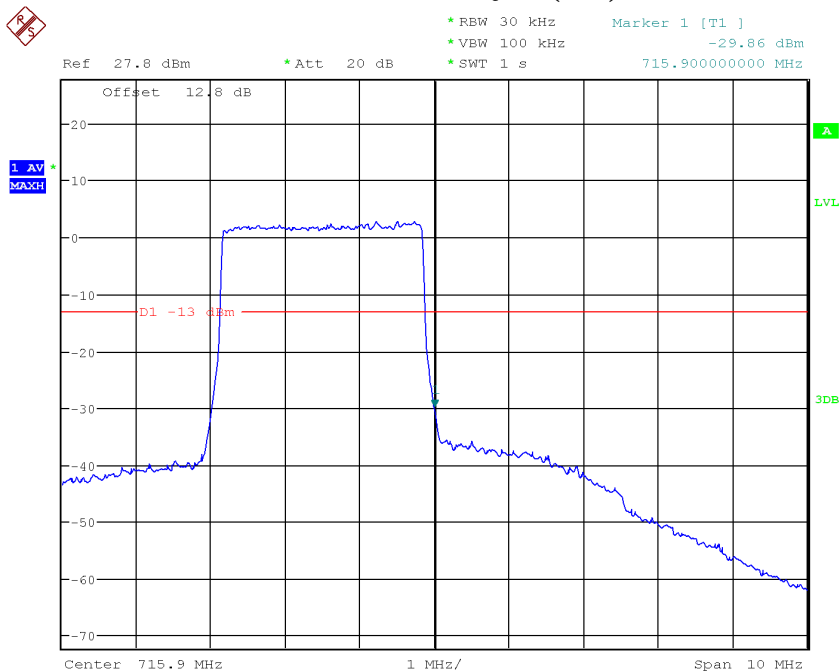
LTE Band12, 3MHz bandwidth, 16QAM,(15,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:25:37

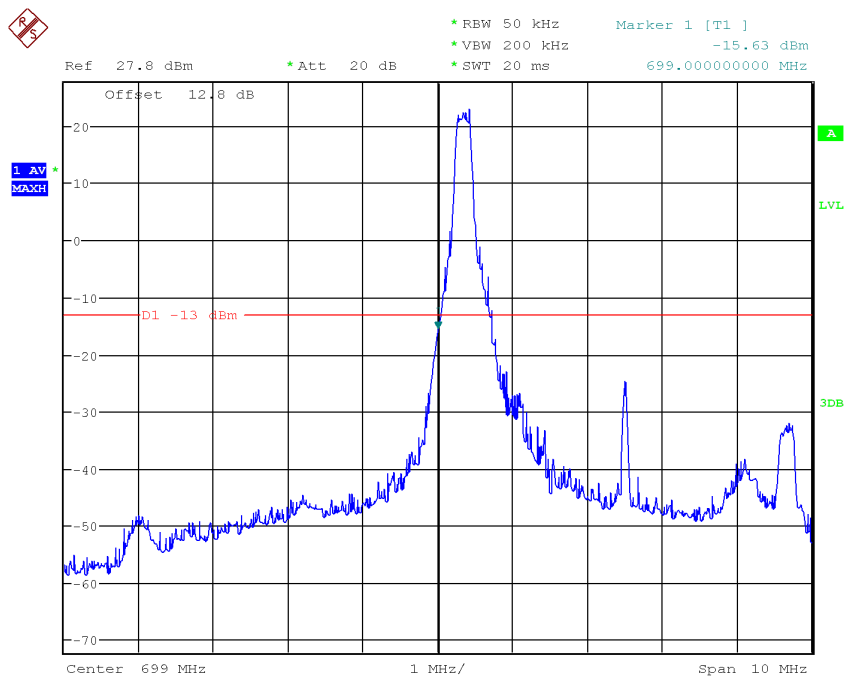
LTE Band12, 3MHz bandwidth, 16QAM,(1,15) Mode, Above 716MHz



Date: 28.APR.2019 22:25:54

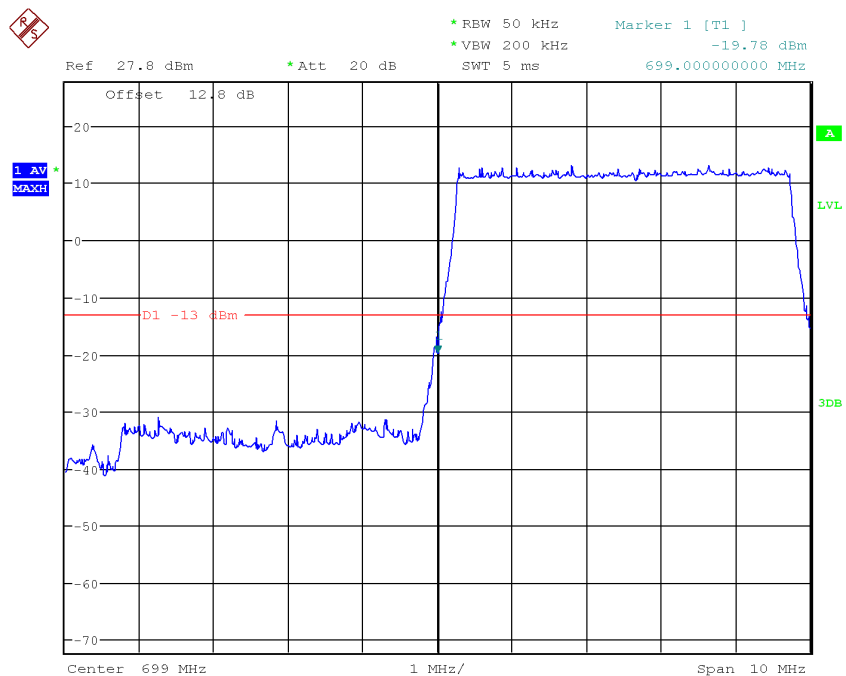
LTE Band12, 3MHz bandwidth, 16QAM,(15,0) Mode, Above716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:28:58

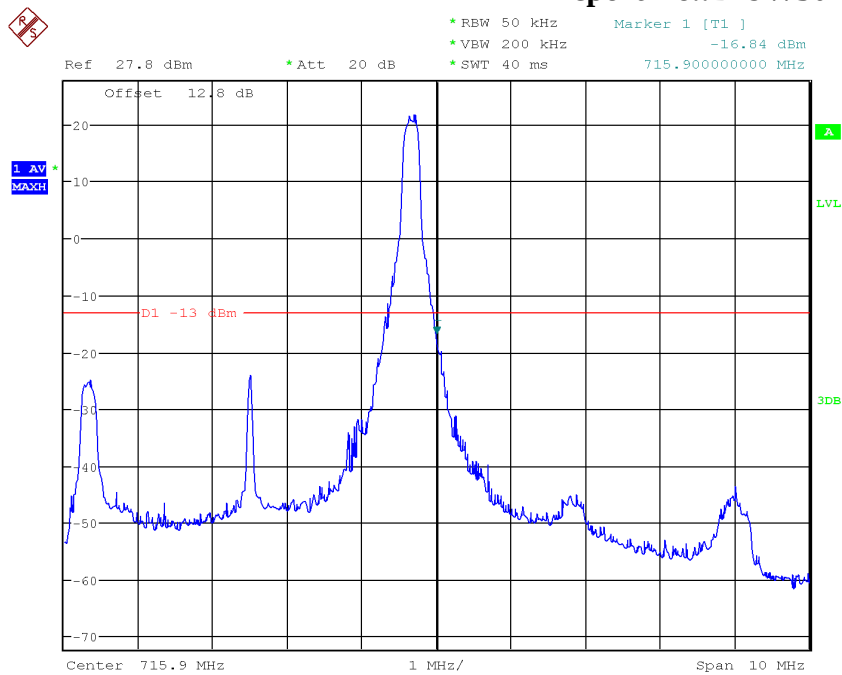
LTE Band12, 5MHz bandwidth, QPSK,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:28:36

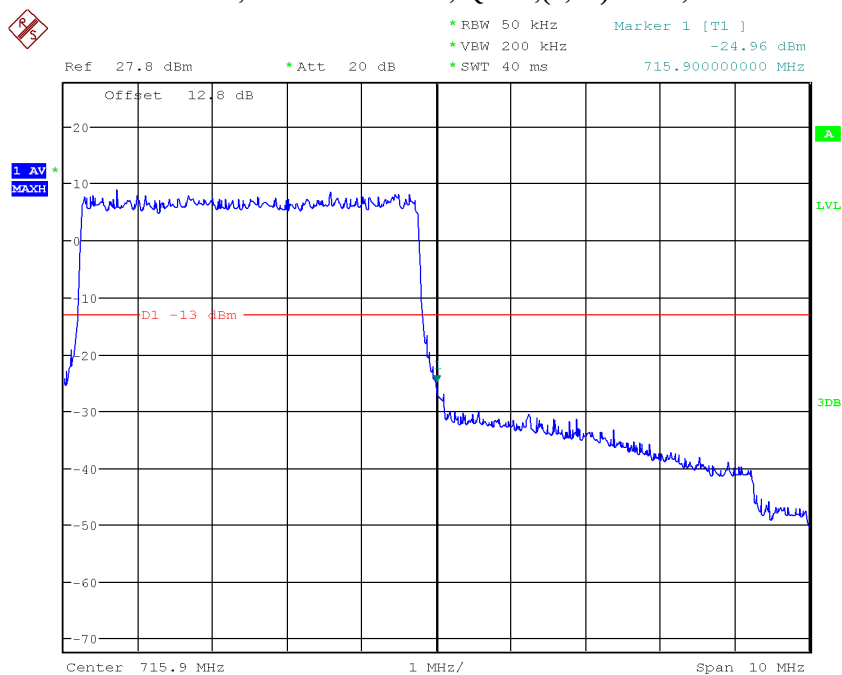
LTE Band12, 5MHz bandwidth, QPSK,(25,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:30:30

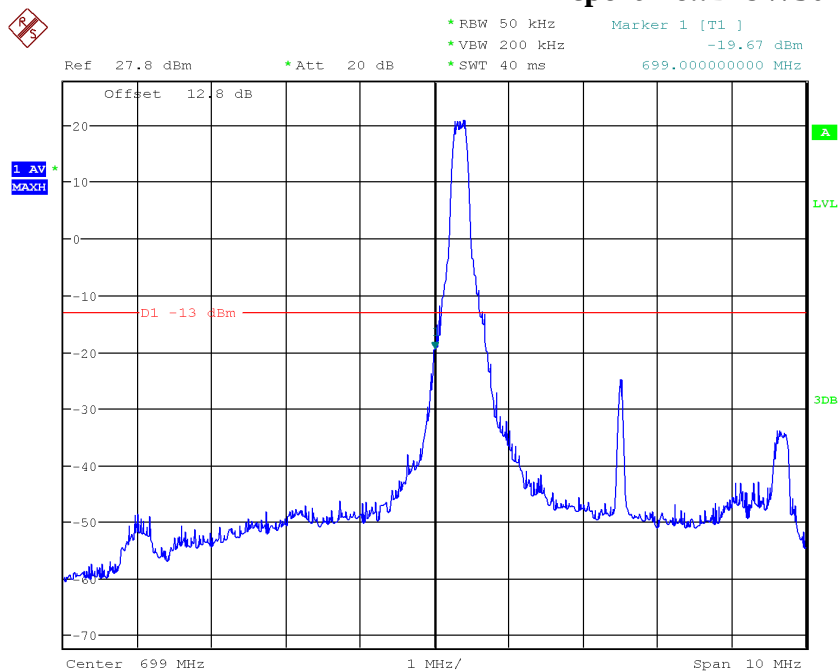
LTE Band12, 5MHz bandwidth, QPSK,(1,25) Mode, Above 716MHz



Date: 28.APR.2019 22:30:43

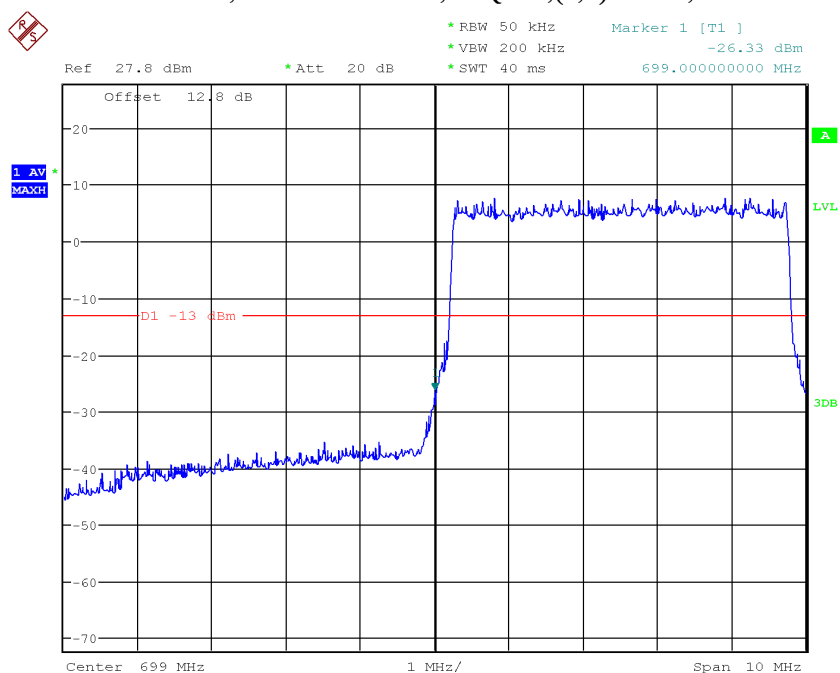
LTE Band12, 5MHz bandwidth, QPSK,(25,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:29:31

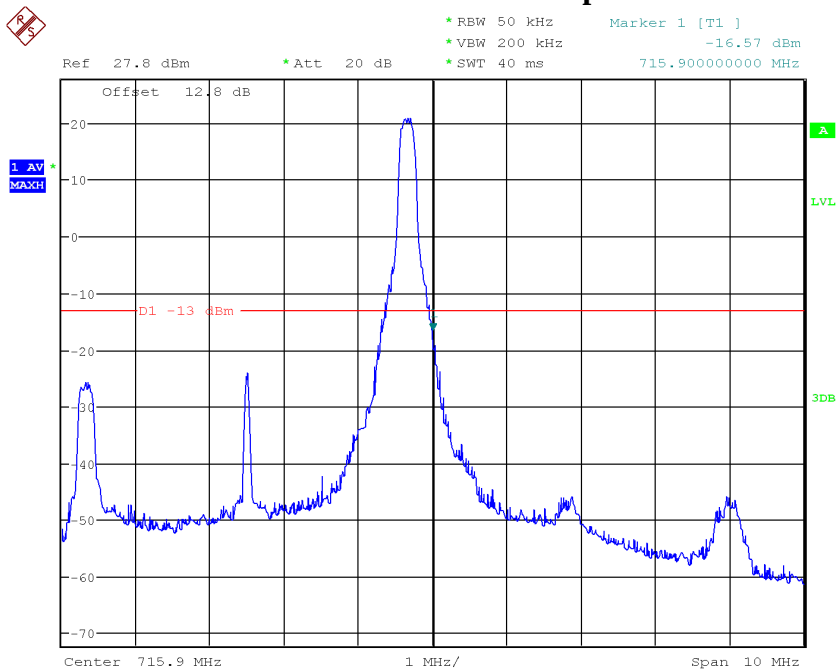
LTE Band12, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:29:42

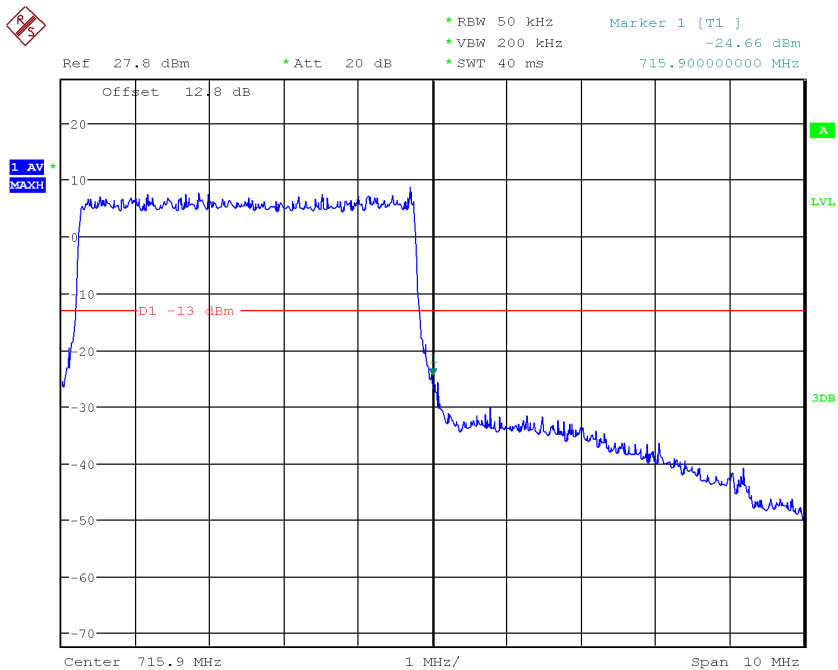
LTE Band12, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:30:16

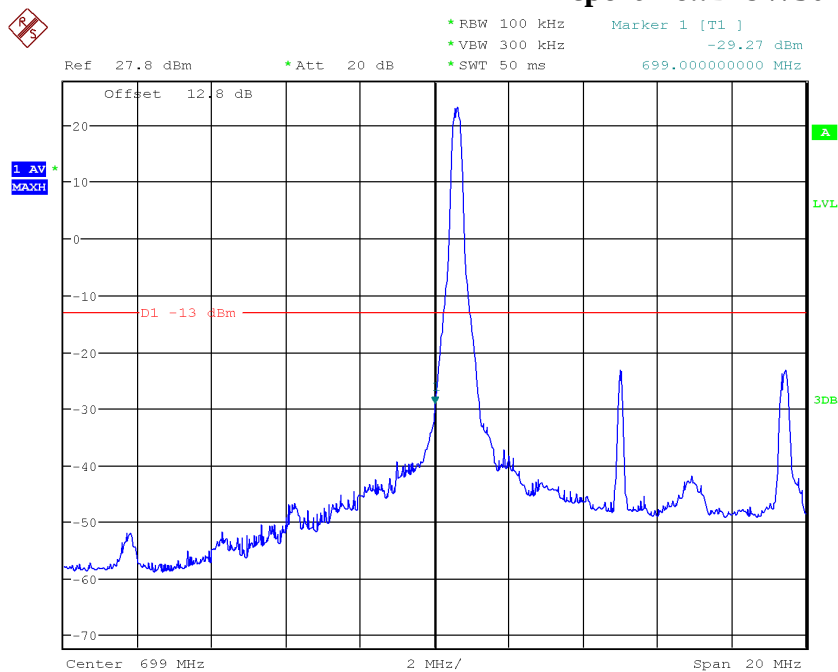
LTE Band12, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 716MHz



Date: 28.APR.2019 22:30:00

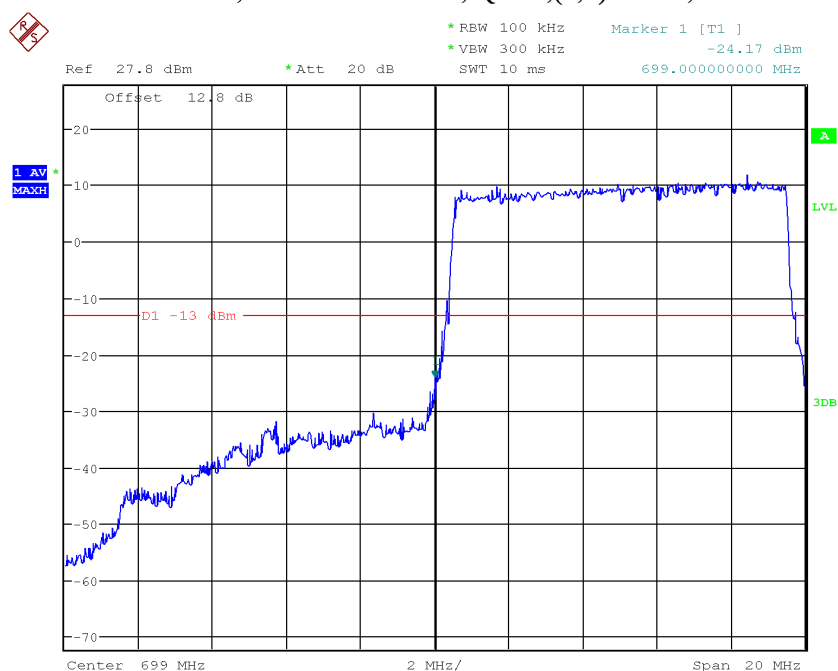
LTE Band12, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:52:14

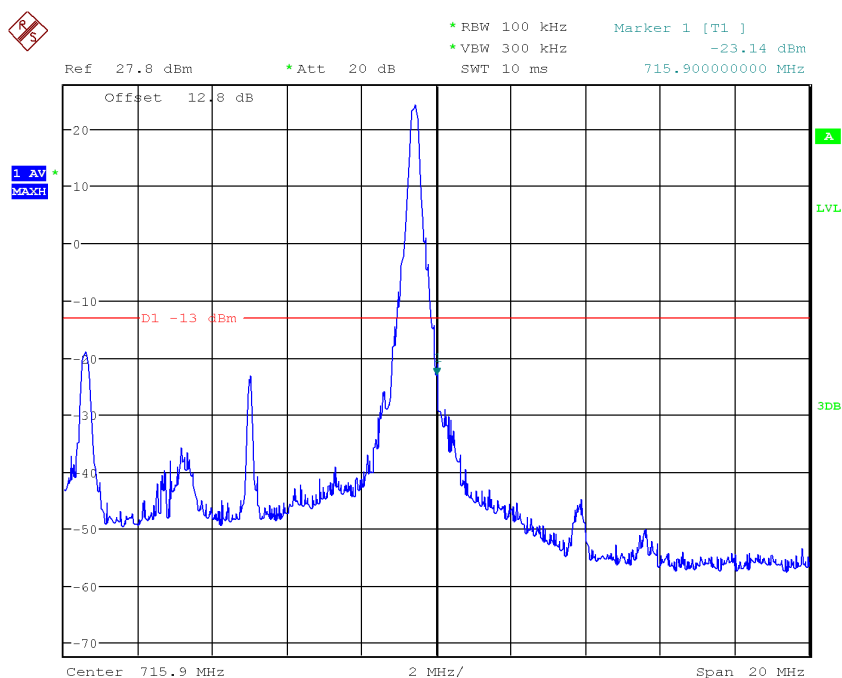
LTE Band12, 10MHz bandwidth, QPSK,(1,0) Mode , Below699MHz



Date: 28.APR.2019 22:32:04

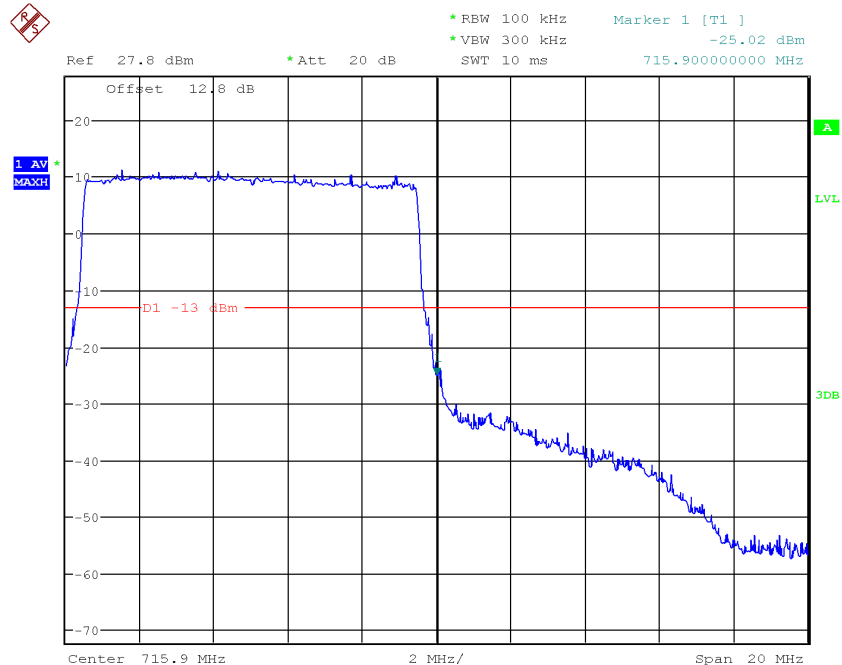
LTE Band12, 10MHz bandwidth, QPSK,(50,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:32:39

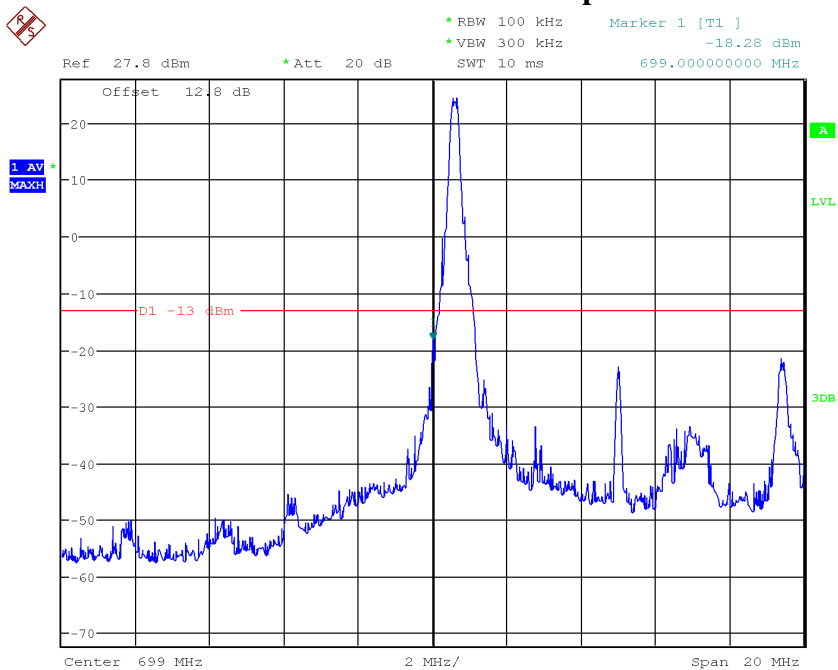
LTE Band12, 10MHz bandwidth, QPSK,(1,50) Mode, Above 716MHz



Date: 28.APR.2019 22:32:25

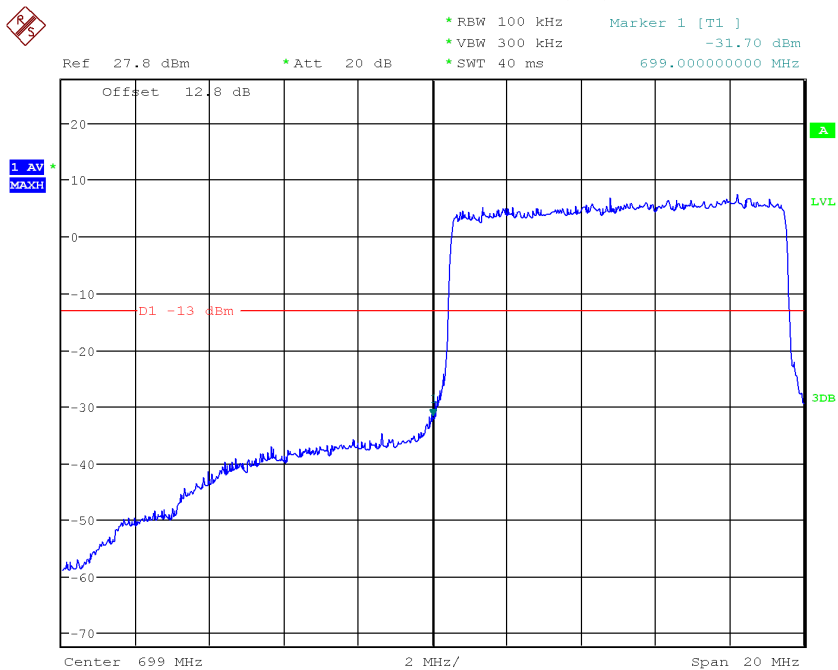
LTE Band12, 10MHz bandwidth, QPSK,(50,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:31:37

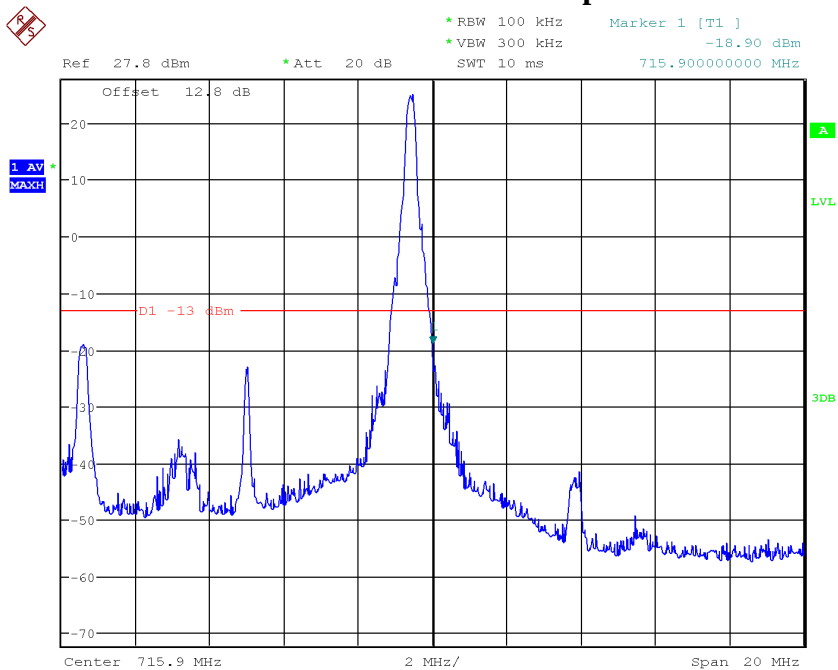
LTE Band12, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 699MHz



Date: 28.APR.2019 22:31:19

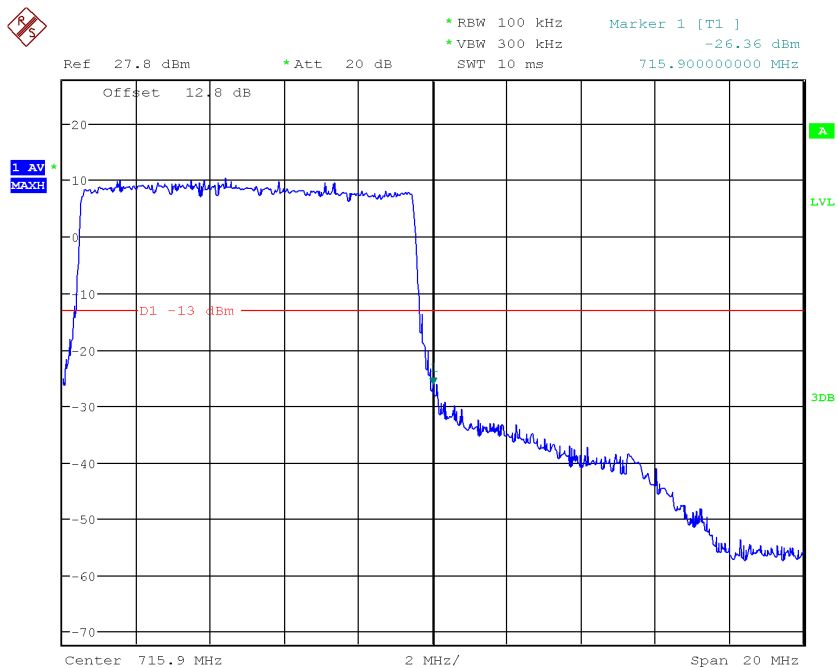
LTE Band12, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 699MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:32:53

LTE Band12, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 716MHz



Date: 28.APR.2019 22:33:04

LTE Band12, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 716MHz

Ref 27.8 dBm * Att 20 dB * RBW 50 kHz Marker 1 [T1] -19.79 dBm
 * VBW 200 kHz * SWT 50 ms 777.00000000 MHz

Offset 12.8 dB

1 AV
 MAXH

D1 -13 dBm

Center 777 MHz 1 MHz/ Span 10 MHz

Ref 27.8 dBm * Att 20 dB RBW 50 kHz VBW 200 kHz Span 10 MHz

Marker 1 [T1] -16.44 dBm 777.000000000 MHz

Offset 12.8 dB

1 AV * MAG

D1 -13 dBm

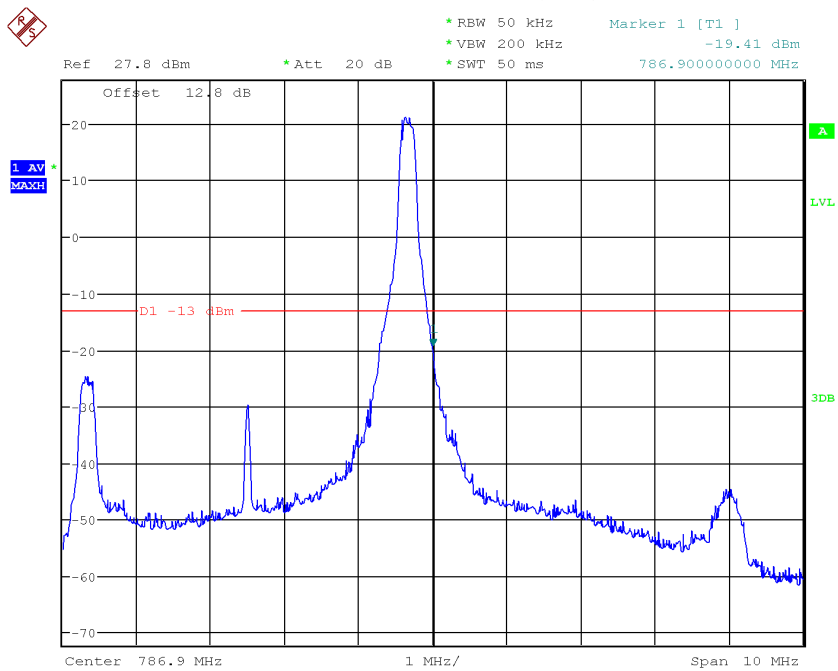
LVL 3dB

Center 777 MHz 1 MHz/

Page 327 of 383

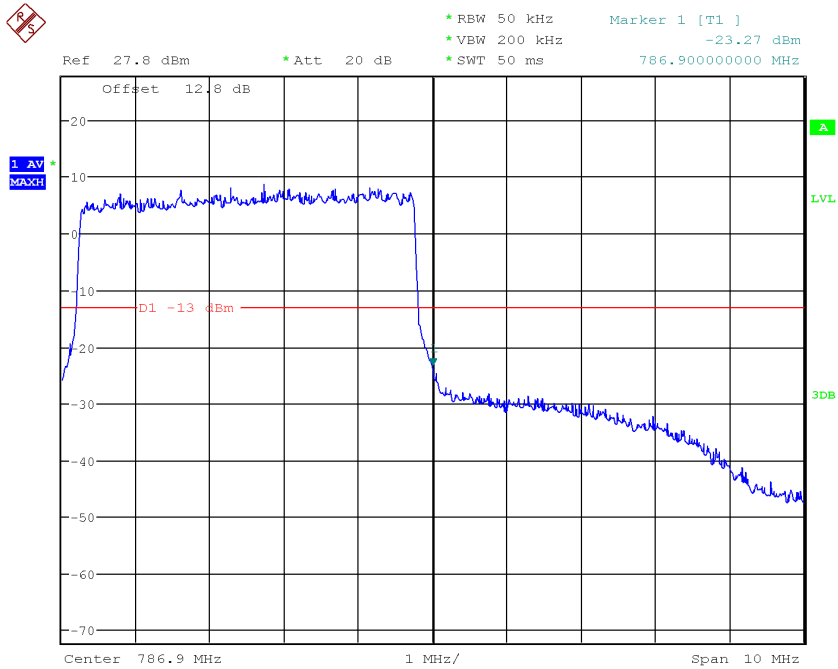
Report No.:B19W50128-WWAN

LTE Band13, 5MHz bandwidth, QPSK,(25,0) Mode , Below 777MHz



Date: 28.APR.2019 22:36:18

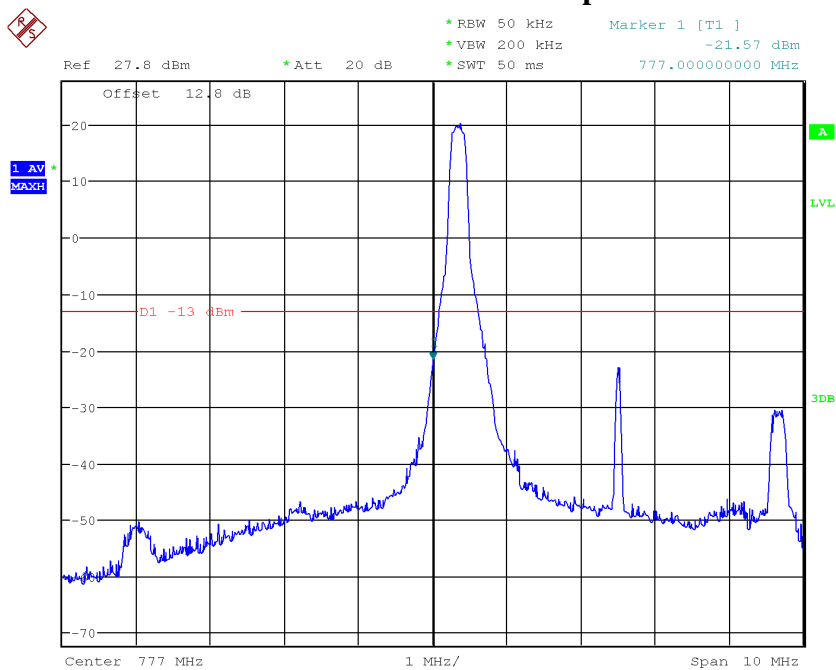
LTE Band13, 5MHz bandwidth, QPSK,(1,25) Mode, Above 787MHz



Date: 28.APR.2019 22:36:30

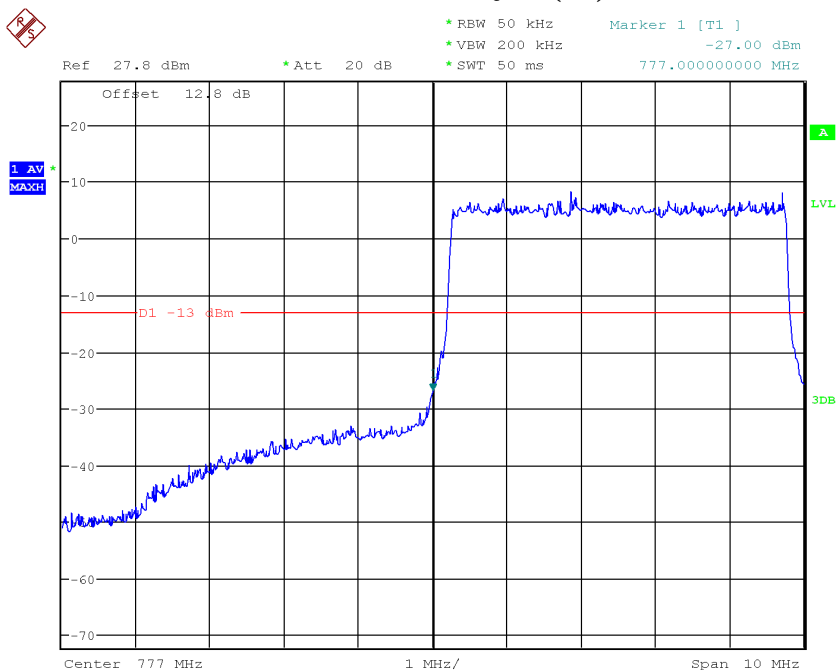
LTE Band13, 5MHz bandwidth, QPSK,(25,0) Mode, Above 787MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:35:15

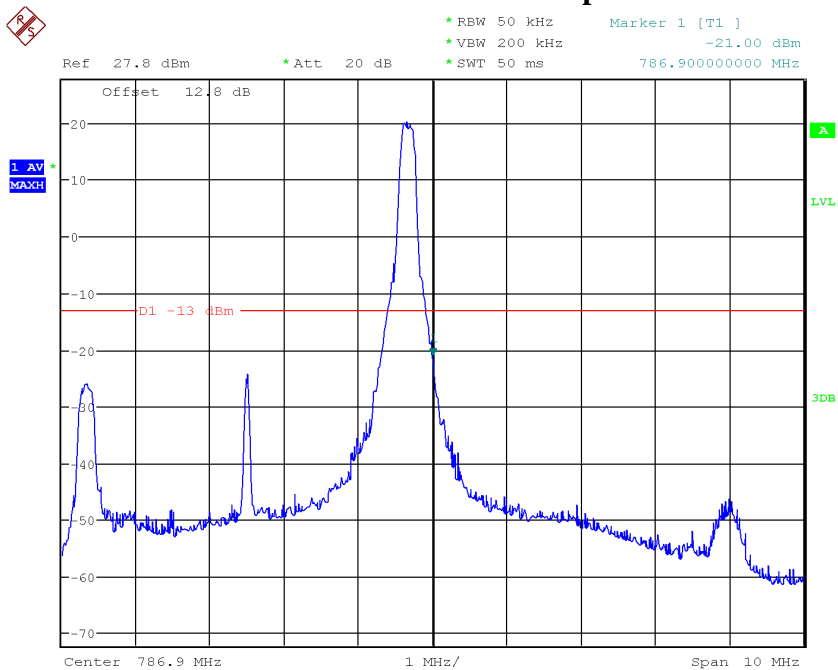
LTE Band13, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 777MHz



Date: 28.APR.2019 22:35:27

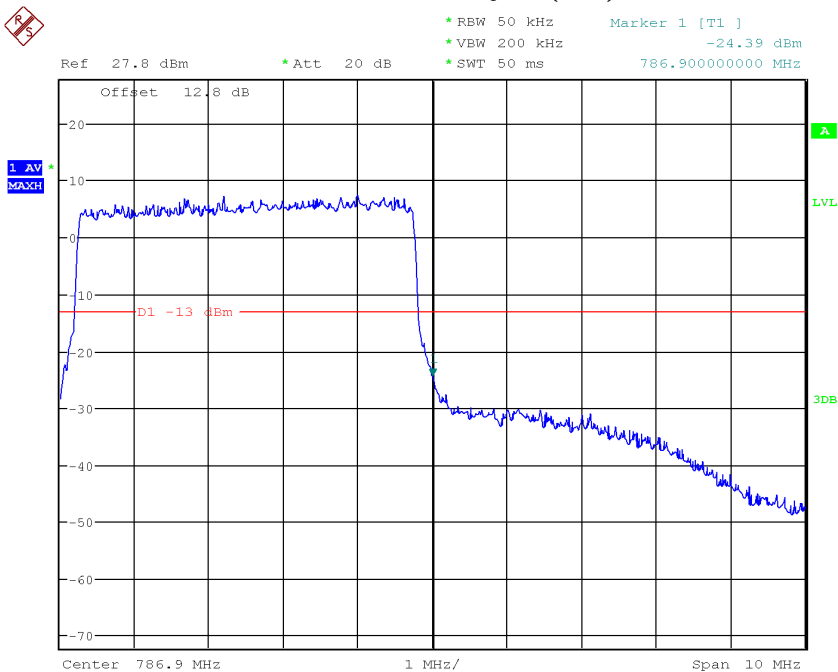
LTE Band13, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 777MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:36:06

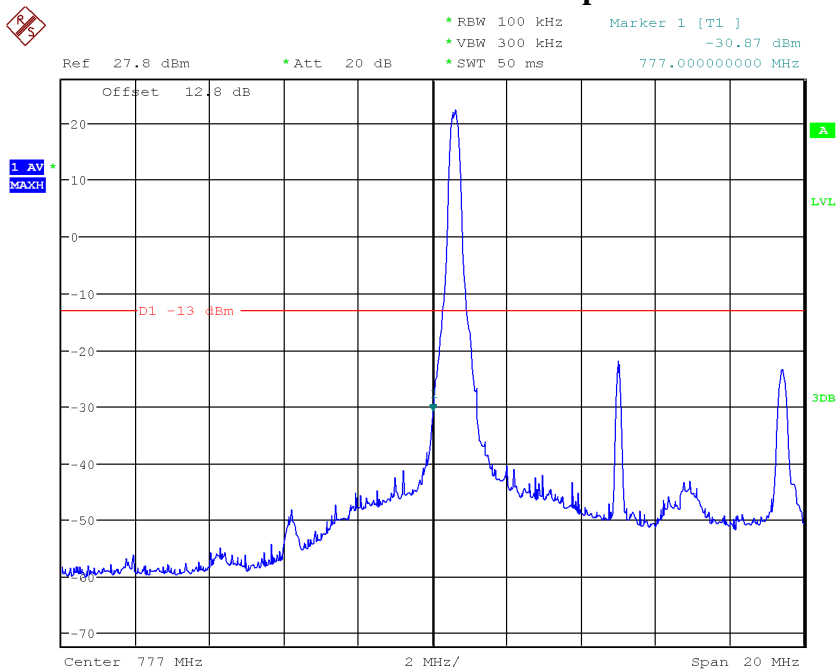
LTE Band13, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 787MHz



Date: 28.APR.2019 22:35:55

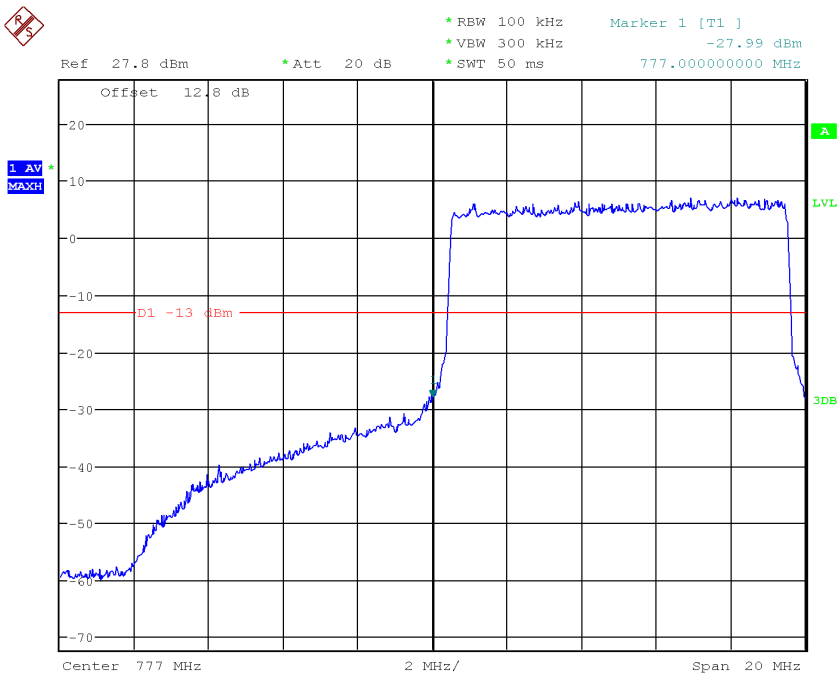
LTE Band13, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 787MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:37:31

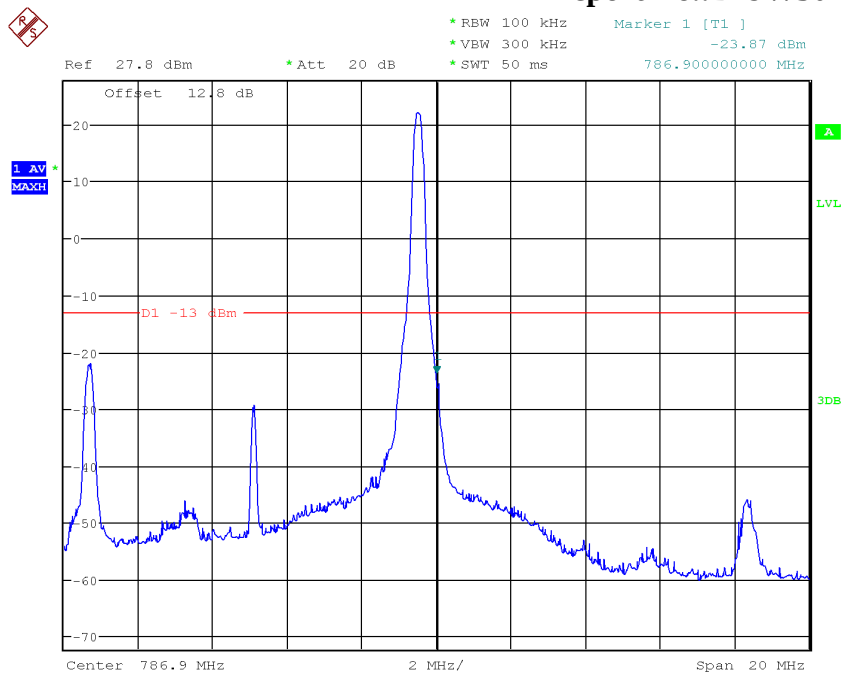
LTE Band13, 10MHz bandwidth, QPSK,(1,0) Mode , Below 777MHz



Date: 28.APR.2019 22:37:45

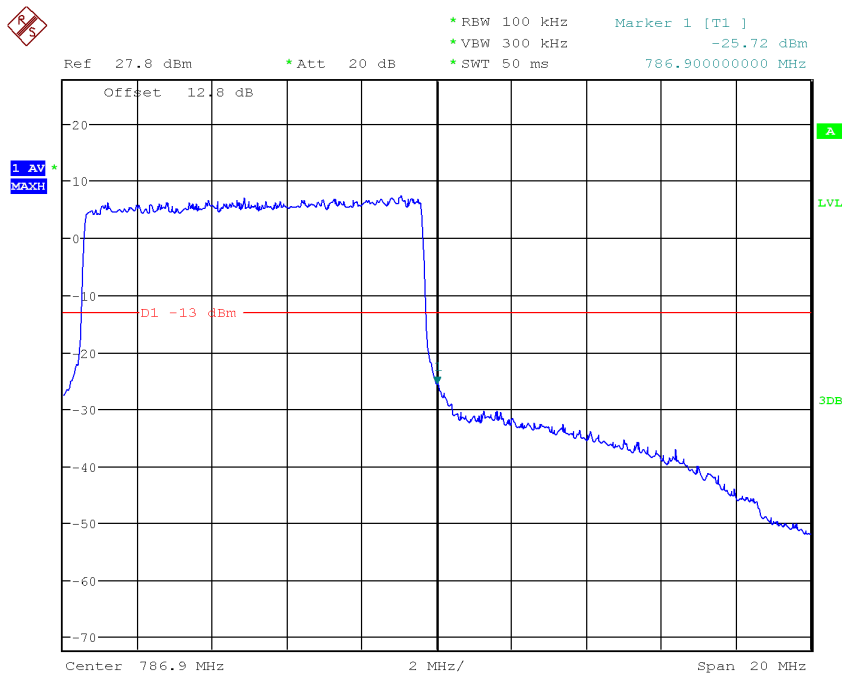
LTE Band13, 10MHz bandwidth, QPSK,(50,0) Mode , Below 777MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:40:36

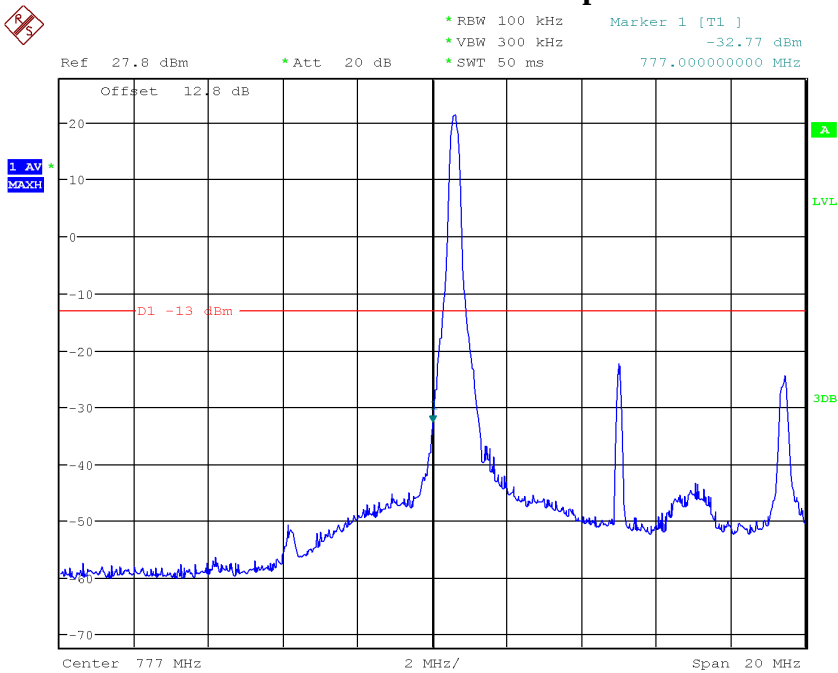
LTE Band13, 10MHz bandwidth, QPSK,(1,50) Mode, Above 787MHz



Date: 28.APR.2019 22:40:26

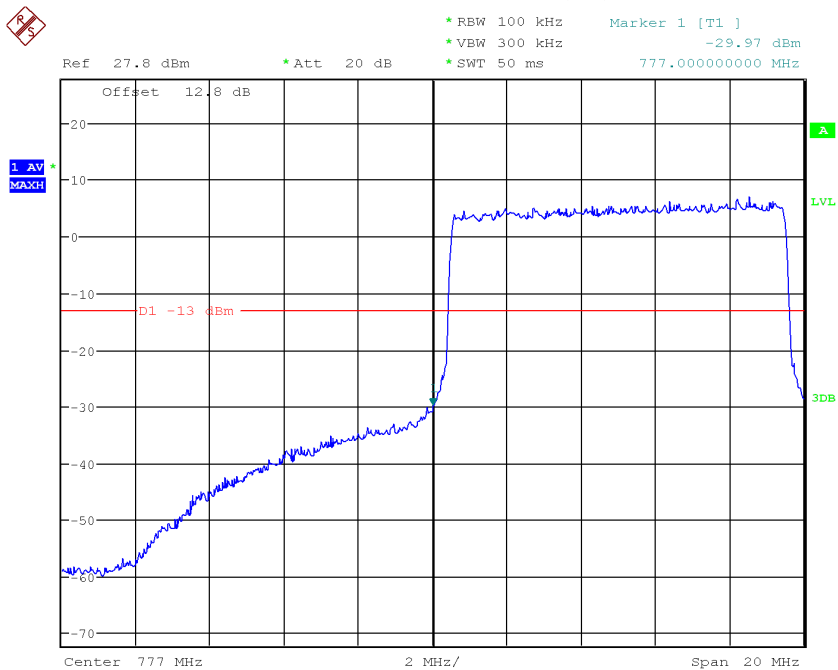
LTE Band13, 10MHz bandwidth, QPSK,(50,0) Mode, Above 787MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:37:19

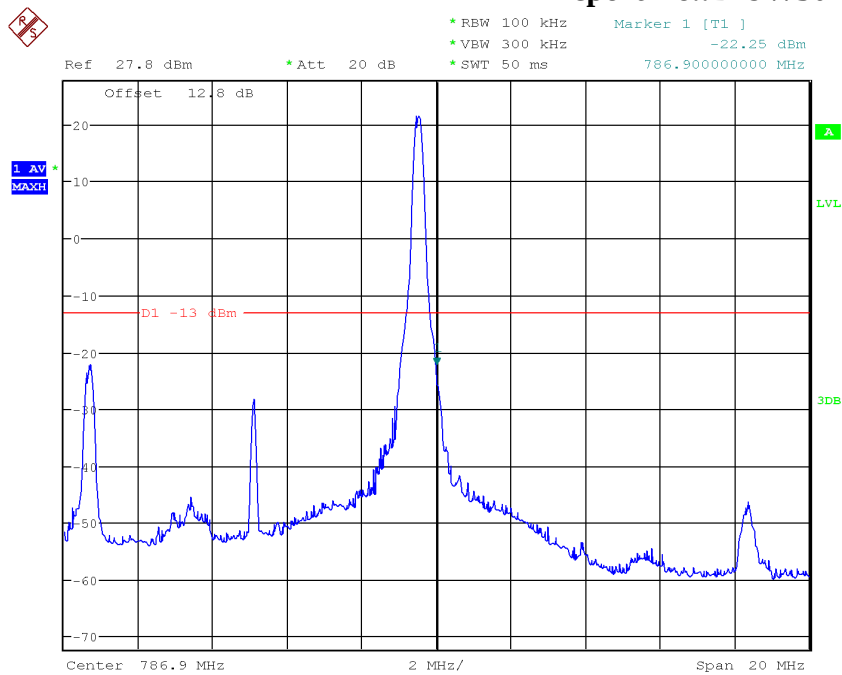
LTE Band13, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 777MHz



Date: 28.APR.2019 22:37:08

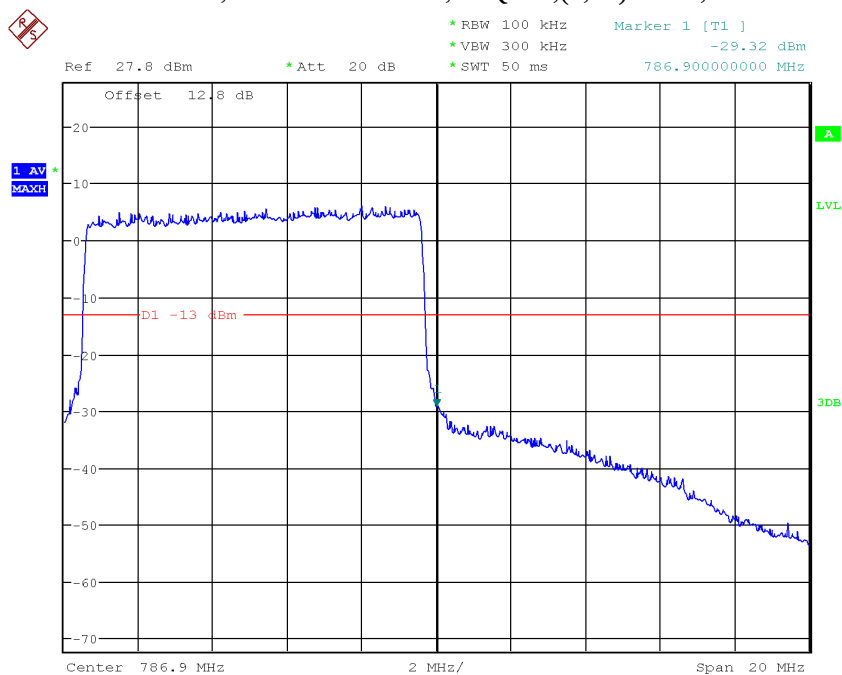
LTE Band13, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 777MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:40:49

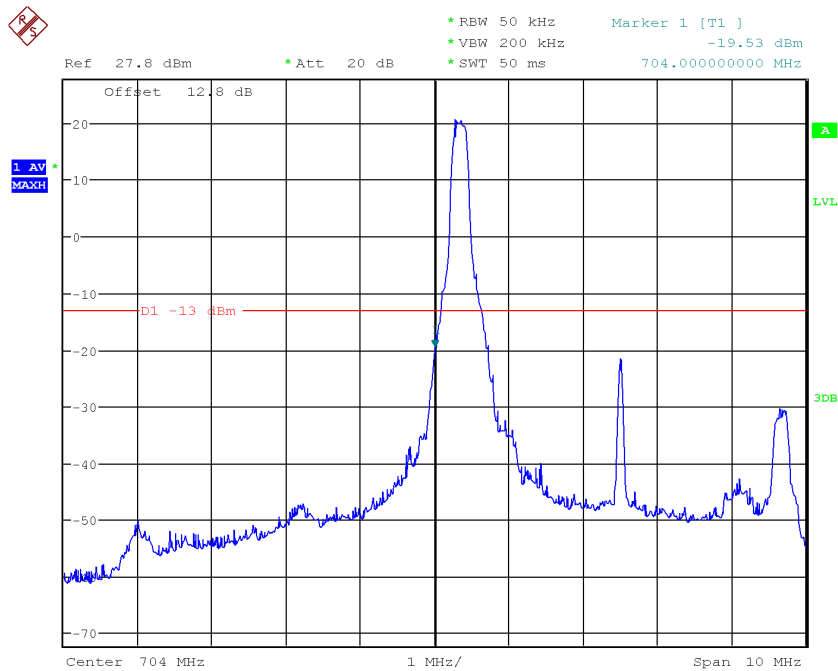
LTE Band13, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 787MHz



Date: 28.APR.2019 22:41:00

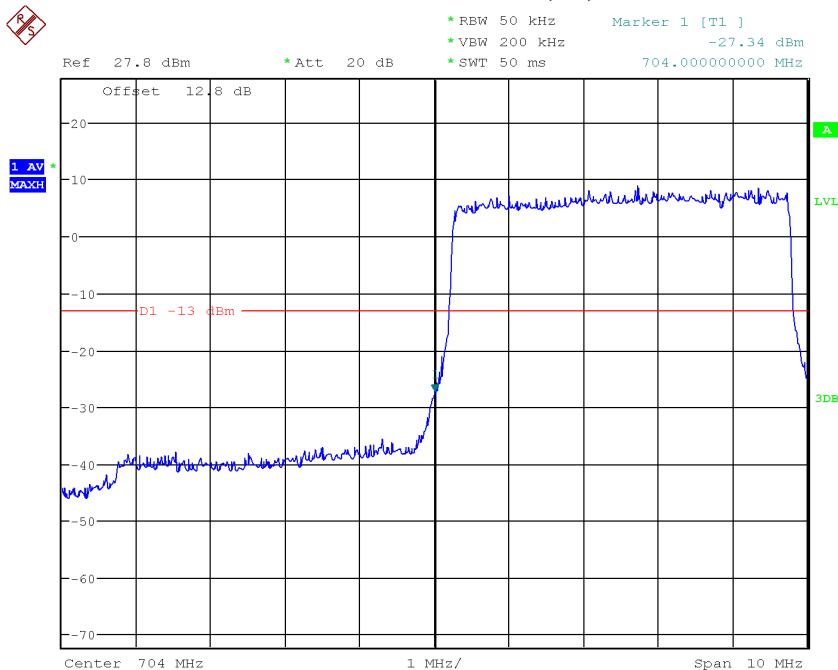
LTE Band13, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 787MHz

5.5.9 LTE B17 Band Edge Results



Date: 28.APR.2019 22:42:00

LTE Band17, 5MHz bandwidth, QPSK,(1,0) Mode , Below 704MHz

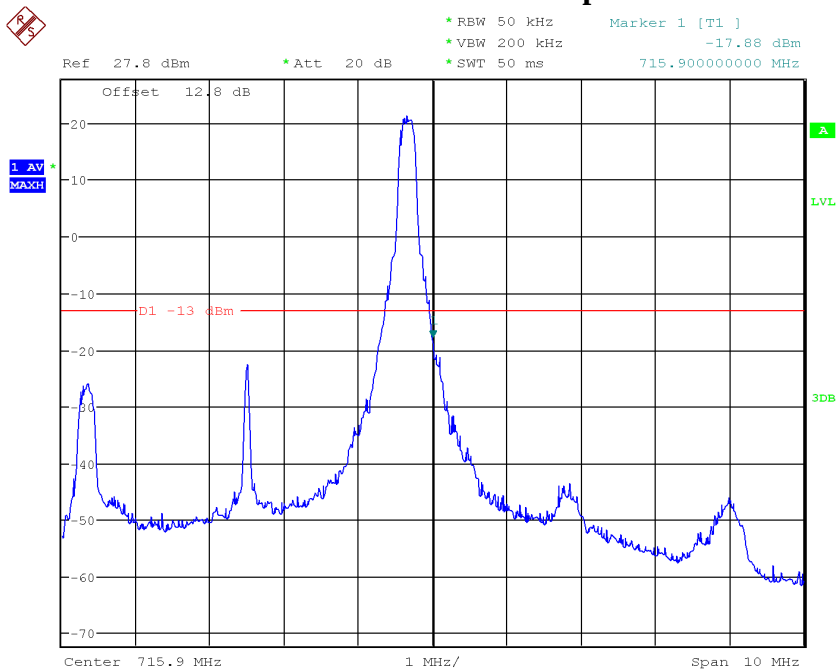


Date: 28.APR.2019 22:41:50

LTE Band17, 5MHz bandwidth, QPSK,(25,0) Mode , Below 704MHz

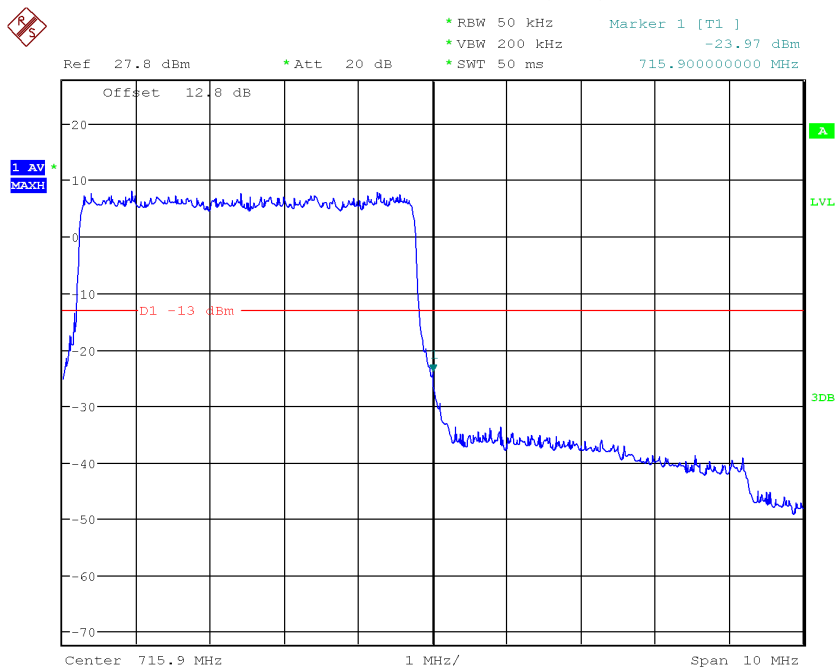
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:43:08

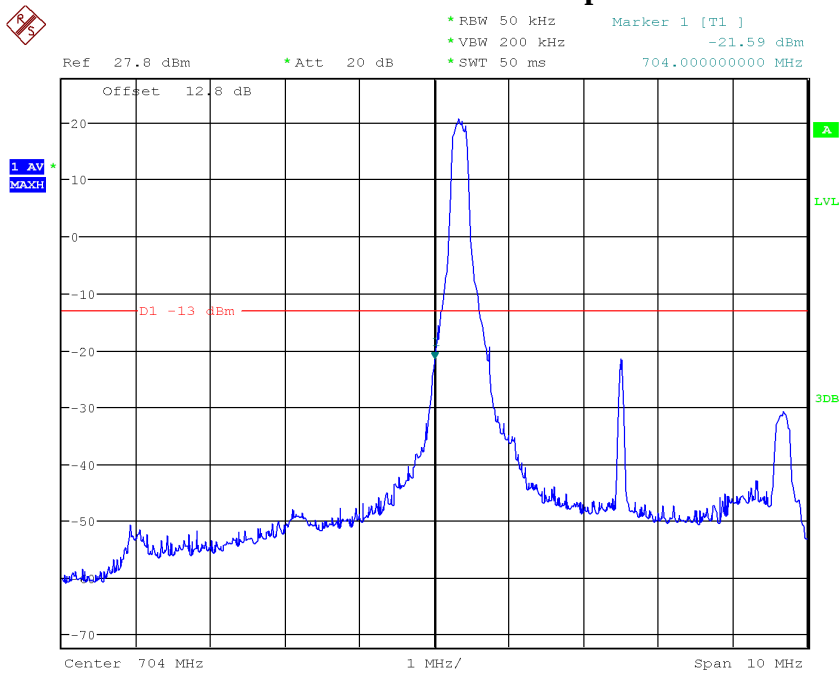
LTE Band17, 5MHz bandwidth, QPSK,(1,25) Mode, Above716MHz



Date: 28.APR.2019 22:43:23

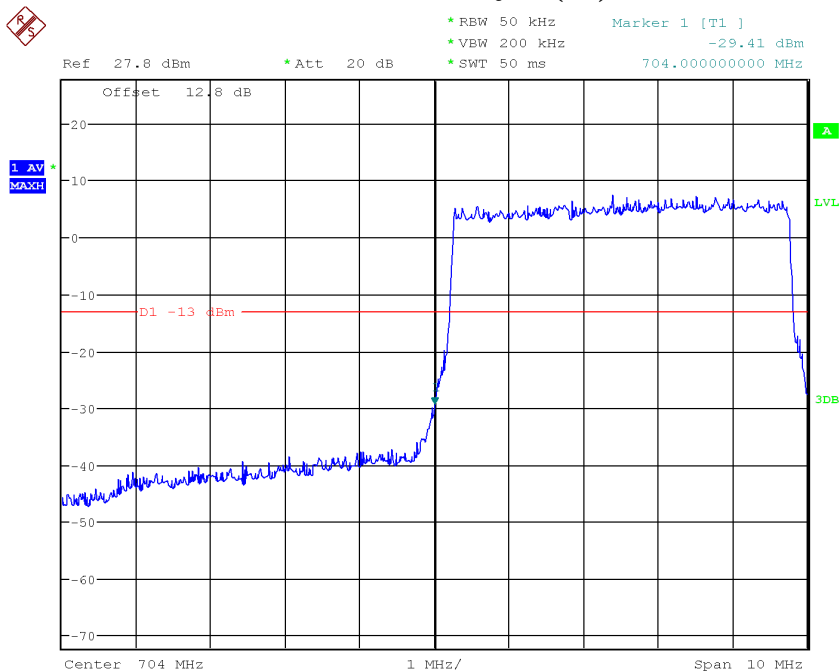
LTE Band17, 5MHz bandwidth, QPSK,(25,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:42:14

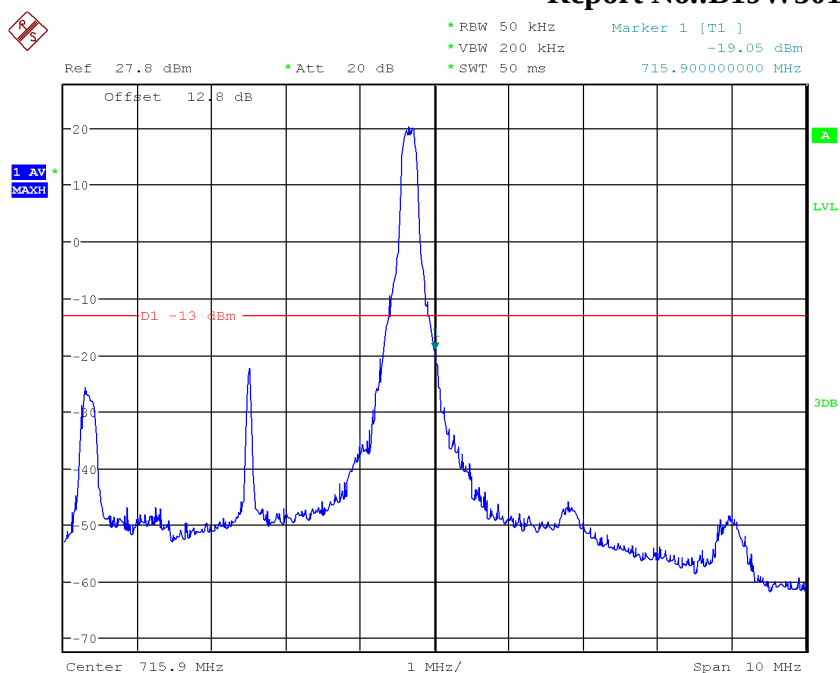
LTE Band17, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 704MHz



Date: 28.APR.2019 22:42:25

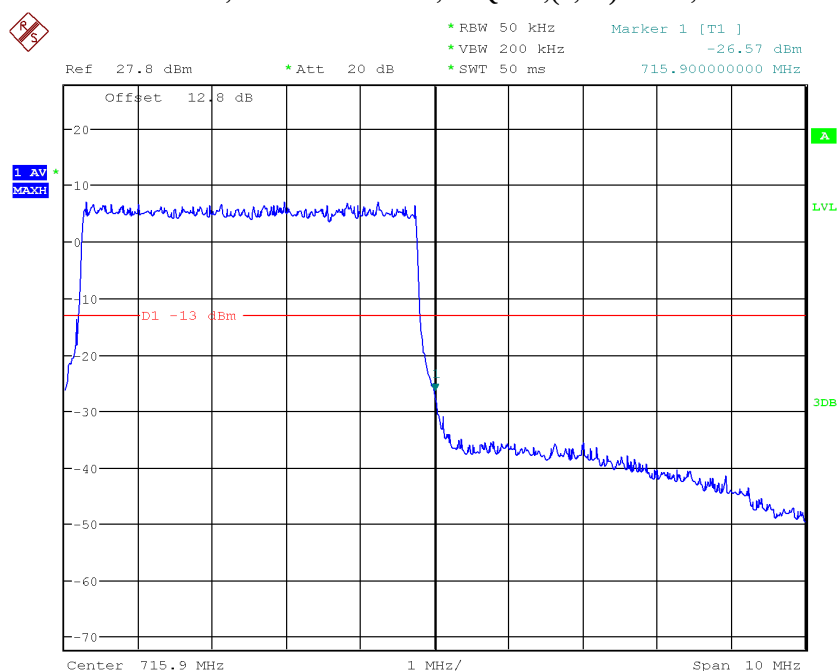
LTE Band17, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 704MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:42:56

LTE Band17, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 716MHz



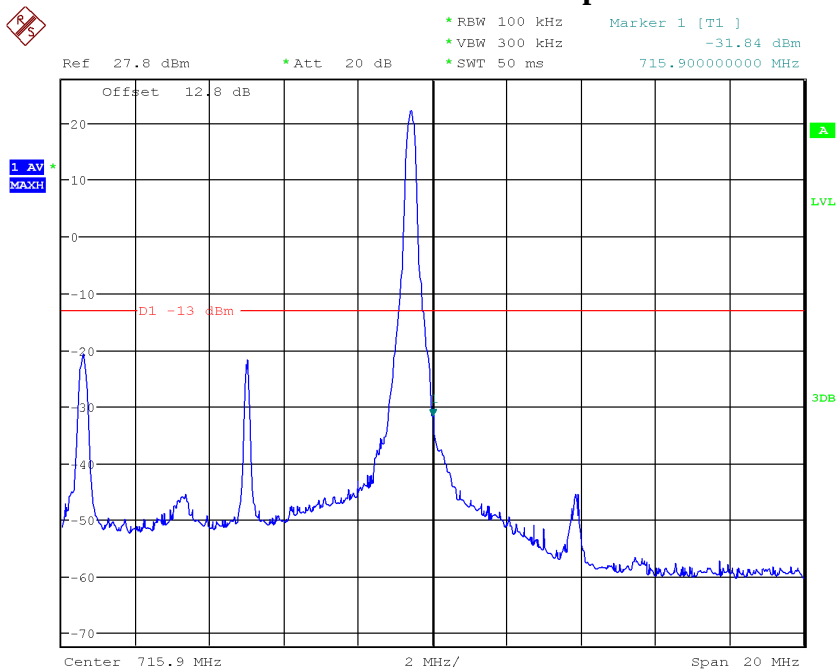
Date: 28.APR.2019 22:42:45

LTE Band17, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 716MHz



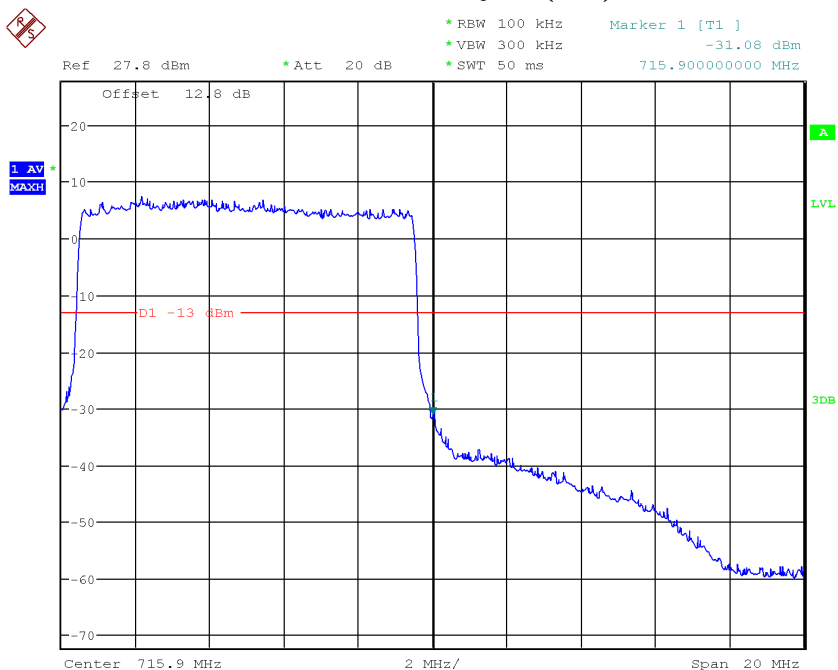
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:45:09

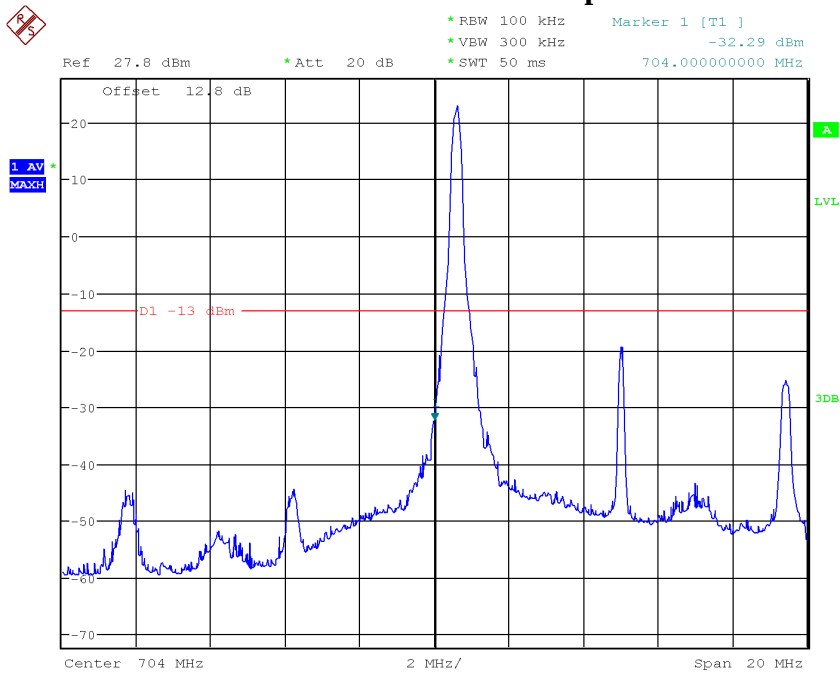
LTE Band17, 10MHz bandwidth, QPSK,(1,50) Mode, Above 716MHz



Date: 28.APR.2019 22:45:00

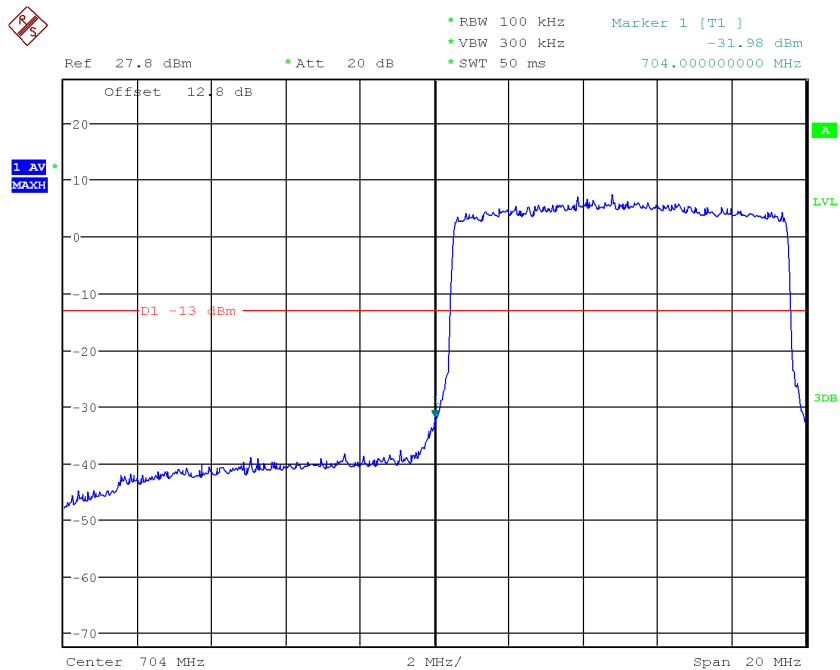
LTE Band17, 10MHz bandwidth, QPSK,(50,0) Mode, Above 716MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:44:20

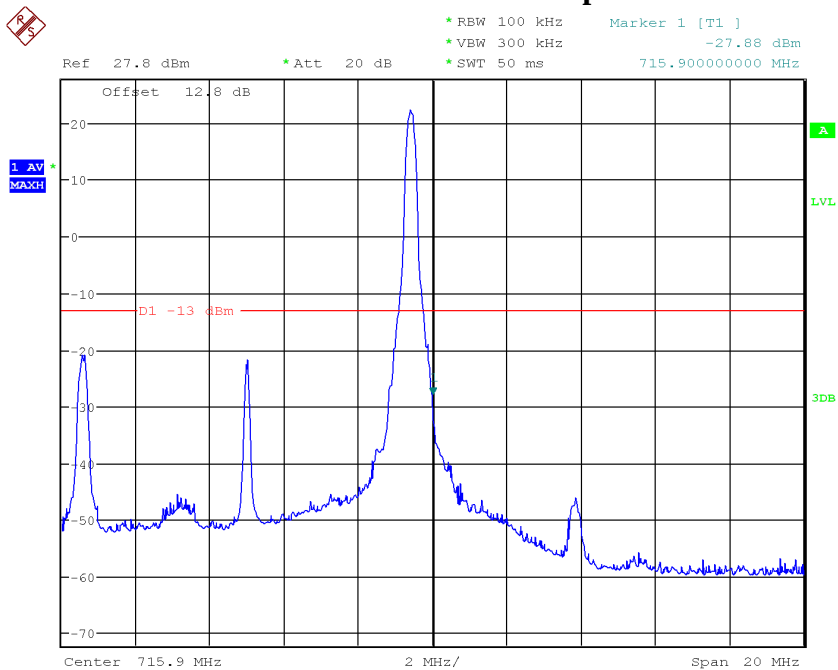
LTE Band17, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 704MHz



Date: 28.APR.2019 22:44:09

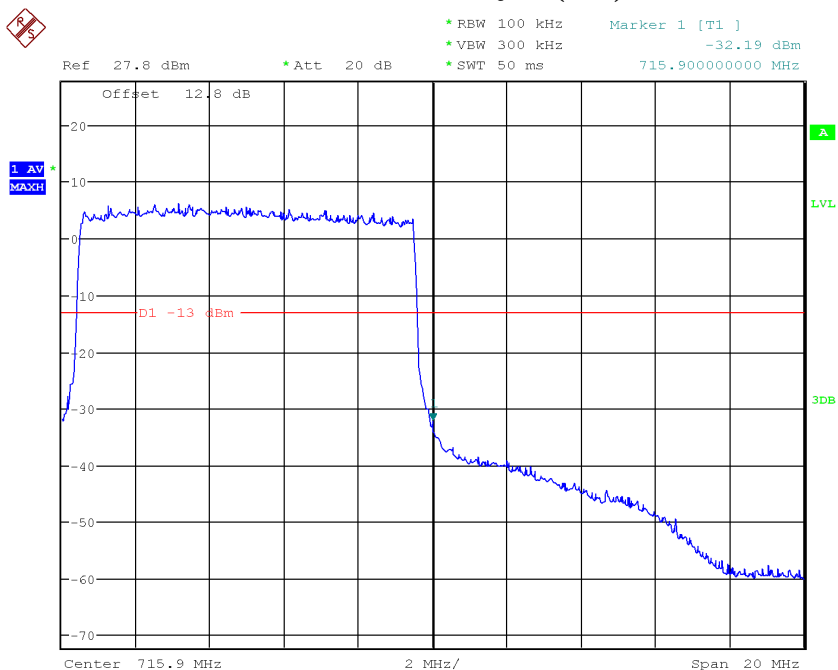
LTE Band17, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 704MHz

Report No.:B19W50128-WWAN



Date: 28.APR.2019 22:45:24

LTE Band17, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 716MHz



Date: 28.APR.2019 22:45:35

LTE Band17, 10MHz bandwidth, 16QAM,(50,0) Mode, Above 716MHz

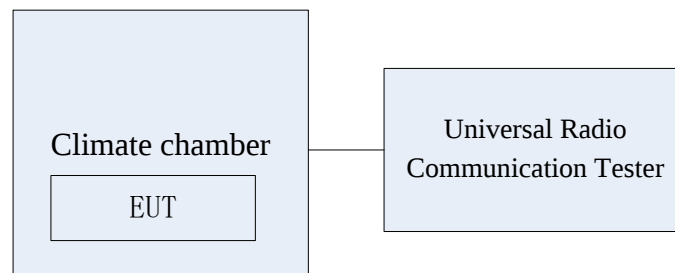
5.6 Frequency Stability over Temperature Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	868020030062938
Test conditions:	Ambient Temperature:15℃-35℃ 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 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℃ 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℃, -20℃, -10℃, 0℃, 10℃, 20℃, 30℃, 40℃ and 50℃.

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.6.1 GSM Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
GSM850 GMSK	Hz	18.04	16.5	20.07	20.08	19.11	18.74	18.45	18.52	22.17
	ppm	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
GSM850 8PSK	Hz	14.08	13.74	16.05	12.07	14.05	13.07	14.41	11.05	14.08
	ppm	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02
PCS1900 GMSK	Hz	12.47	12.04	18.78	13.45	14.18	16.74	13.55	10.47	12.65
	ppm	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PCS1900 8PSK	Hz	12.08	14.91	15.14	12.63	7.52	7.75	6.95	5.14	5.58
	ppm	0.007	0.008	0.008	0.007	0.004	0.004	0.004	0.003	0.003

5.6.2 WCDMA Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	13.07	14.86	4.17	-6.36	5.89	-4.61	3.27	2.11	6.72
	ppm	0.007	0.008	0.002	0.003	0.003	0.002	0.002	0.001	0.004
4	Hz	4.27	5.65	4.11	-17.21	-13.4	-7.76	4.21	7.48	13.25
	ppm	0.002	0.003	0.002	0.009	0.008	0.005	0.002	0.004	0.008
5	Hz	1.83	3.24	4.16	-2.65	-4.37	1.91	0.98	1.97	1.45
	ppm	0.002	0.004	0.005	0.003	0.005	0.002	0.001	0.002	0.002

5.6.3 LTE Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[℃]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	4.34	5.73	4.28	-3.85	-4.34	-4.36	3.75	3.92	4.9
	ppm	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003
4	Hz	5.82	5.84	3.27	2.92	3.26	3.54	3.67	2.77	2.75
	ppm	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
5	Hz	2.96	4.07	1.45	2.15	1.74	1.98	2.52	2.46	2.85
	ppm	0.004	0.005	0.002	0.003	0.002	0.002	0.003	0.003	0.003
12	Hz	2.27	3.55	1.78	2.16	0.77	1.24	1.55	1.52	1.61
	ppm	0.003	0.005	0.003	0.003	0.001	0.002	0.002	0.002	0.002
13	Hz	3.57	4.22	3.4	1.3	1.17	2.18	1.74	1.77	1.82
	ppm	0.005	0.006	0.005	0.002	0.002	0.003	0.002	0.002	0.002
17	Hz	2.44	3.31	2.11	1.07	1.85	1.17	1.3	1.3	1.47
	ppm	0.003	0.005	0.003	0.002	0.003	0.002	0.002	0.002	0.002

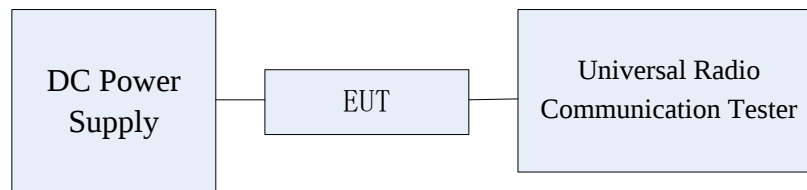
5.7 Frequency Stability over Voltage Variation

Specifications:	FCC Part 2.1055, 22.355, 24.235, 27.54
DUT Serial Number:	868020030062938
Test conditions:	Ambient Temperature:15℃-35℃ 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.



Test Method

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

5.7.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
GSM850 GMSK	Hz	16.00	16.07	18.14
	ppm	0.02	0.02	0.02
GSM850 8PSK	Hz	13.45	14.17	12.64
	ppm	0.02	0.02	0.02
PCS1900 GMSK	Hz	16.07	14.87	16.62
	ppm	0.01	0.01	0.01
PCS1900 8PSK	Hz	14.44	10.32	9.85
	ppm	0.01	0.01	0.01

5.7.2 WCDMA Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
2	Hz	-3.78	3.53	3.50
	ppm	0.001	0.001	0.001
4	Hz	10.38	5.07	12.60
	ppm	0.01	0.003	0.007
5	Hz	2.57	1.12	1.85
	ppm	0.003	0.001	0.002

5.7.3 LTE Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.40	3.80	4.20
2	Hz	6.65	-5.41	-6.86
	ppm	0.004	0.004	0.004
4	Hz	2.77	2.56	3.02
	ppm	0.002	0.002	0.002
5	Hz	2.25	1.41	1.86
	ppm	0.003	0.002	0.002
12	Hz	2.76	3.07	2.06
	ppm	0.004	0.004	0.003
13	Hz	2.37	2.93	2.39
	ppm	0.003	0.004	0.003
17	Hz	-1.72	2.68	2.19
	ppm	0.002	0.004	0.003

5.8 Peak to Average Ratio

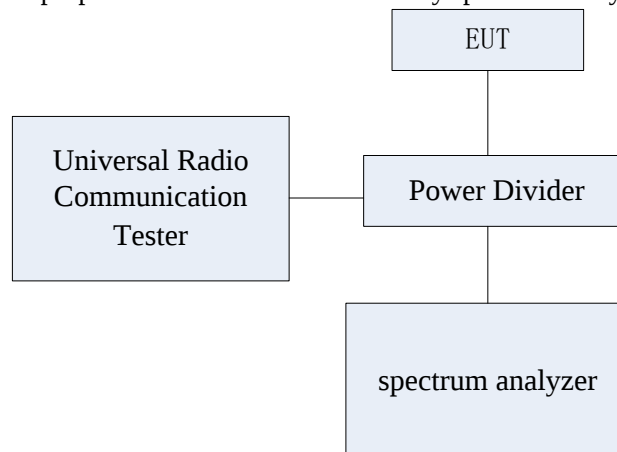
Specifications:	FCC Part 24.232, 27.50,
DUT Serial Number:	868020030062938
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

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

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.

5.8.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.6	190	GMSK	9.93
		8PSK	12.79

5.8.2 GSM1900 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	661	GMSK	11.39
		8PSK	12.85

5.8.3 WCDMA B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	9400	QPSK	5.71
1880	9400	16QAM	4.63

5.8.4 WCDMA B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1732.4	1412	QPSK	5.89
1732.4	1412	16QAM	5.01

5.8.5 WCDMA B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.4	4182	QPSK	6.72
836.4	4182	16QAM	4.63

5.8.6 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880MHz	18900	10MHz	QPSK	5.85
			16QAM	6.70

5.8.7 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5MHz	20175	10MHz	QPSK	4.83
			16QAM	5.74

5.8.8 LTE B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5MHz	23525	10MHz	QPSK	4.33
			16QAM	5.24

5.8.9 LTE B12 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
707.5MHz	20095	10MHz	QPSK	5.76
			16QAM	5.88

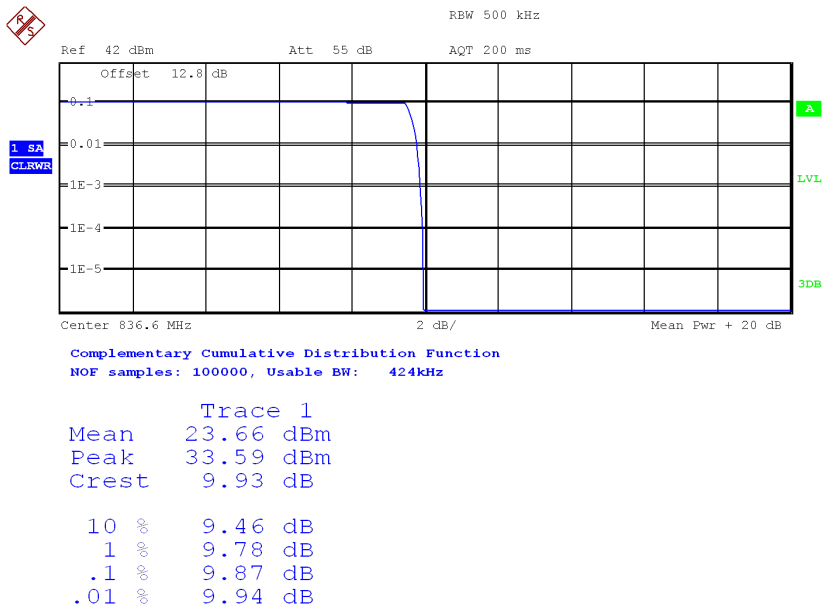
5.8.10 LTE B13 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
782MHz	20230	10MHz	QPSK	5.93
			16QAM	5.99

5.8.11 LTE B17 Peak to Average Ratio Results

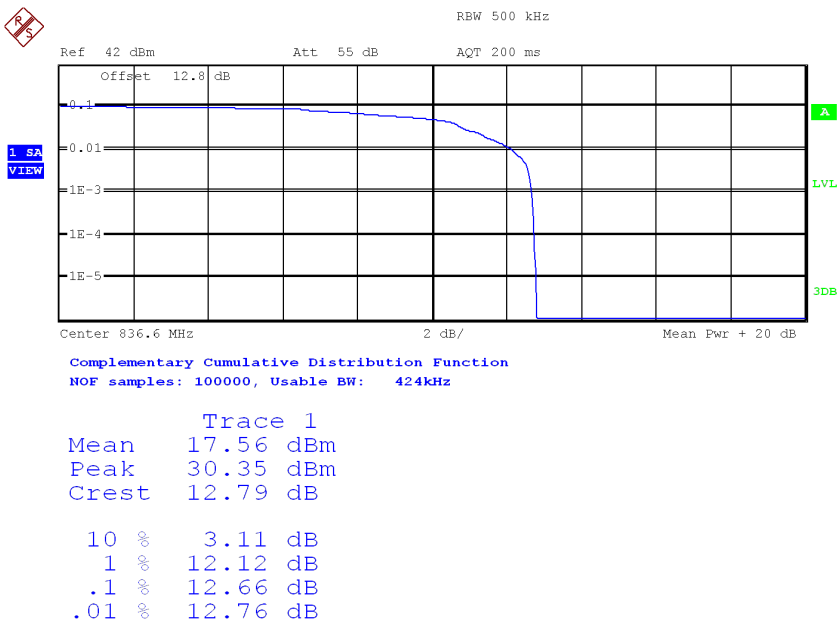
Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
710MHz	20790	10MHz	QPSK	5.76
			16QAM	5.88

Graphical for Peak to Average Ratio Results



Date: 30.APR.2019 09:08:14

GSM850, GMSK

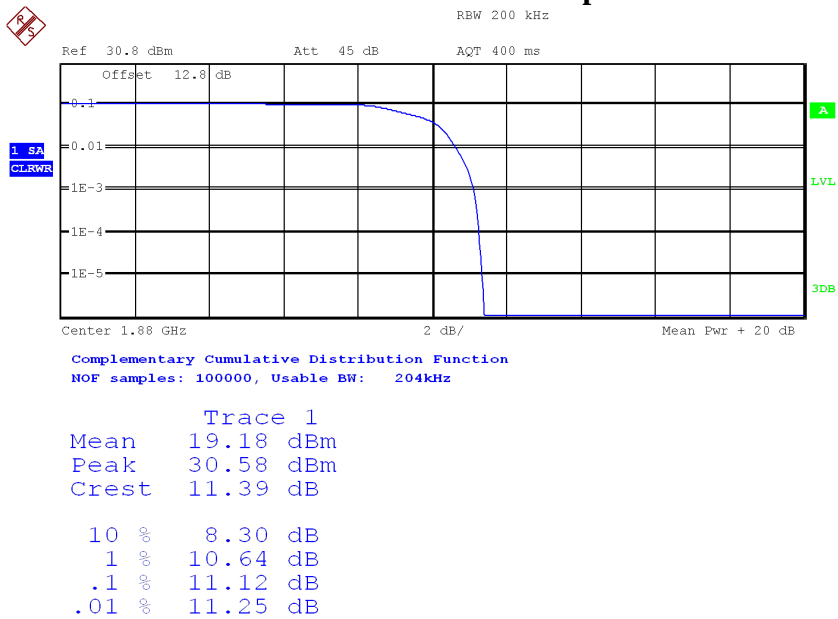


Date: 30.APR.2019 09:09:58

GSM850,8PSK

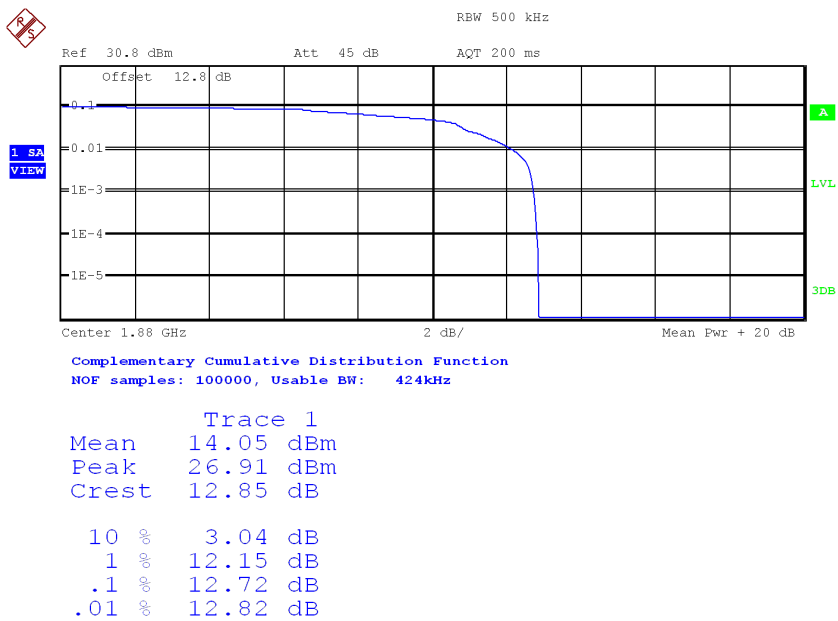
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 30.APR.2019 08:34:20

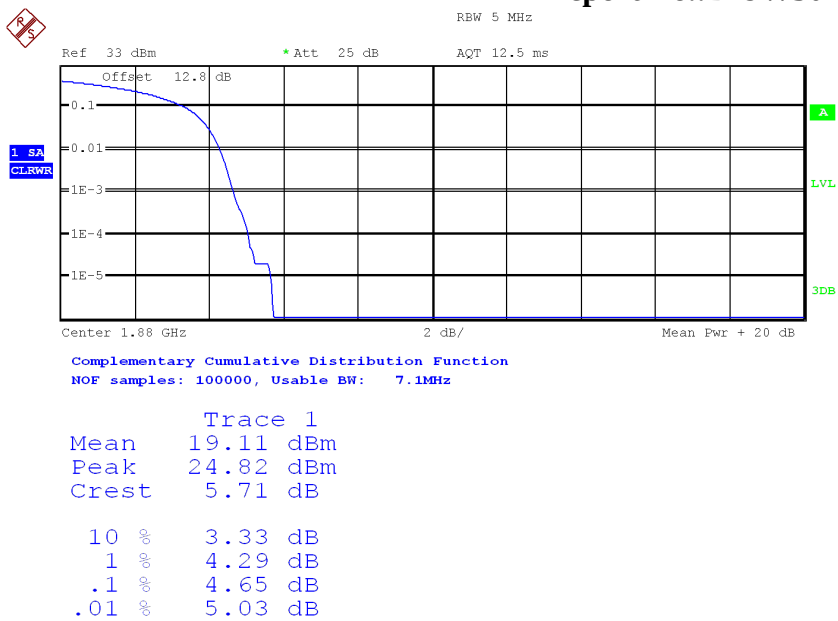
PCS1900, GMSK



Date: 30.APR.2019 08:30:59

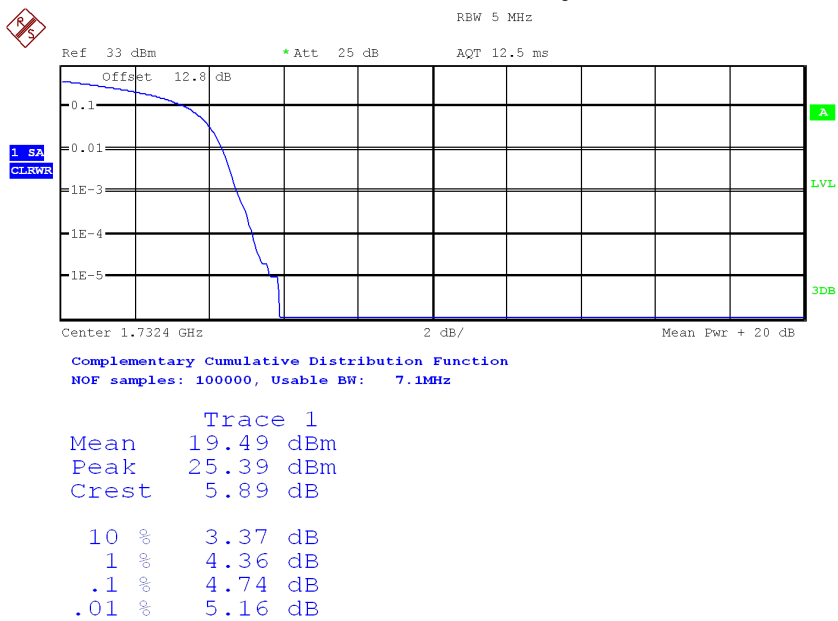
PCS1900, 8PSK

Report No.:B19W50128-WWAN



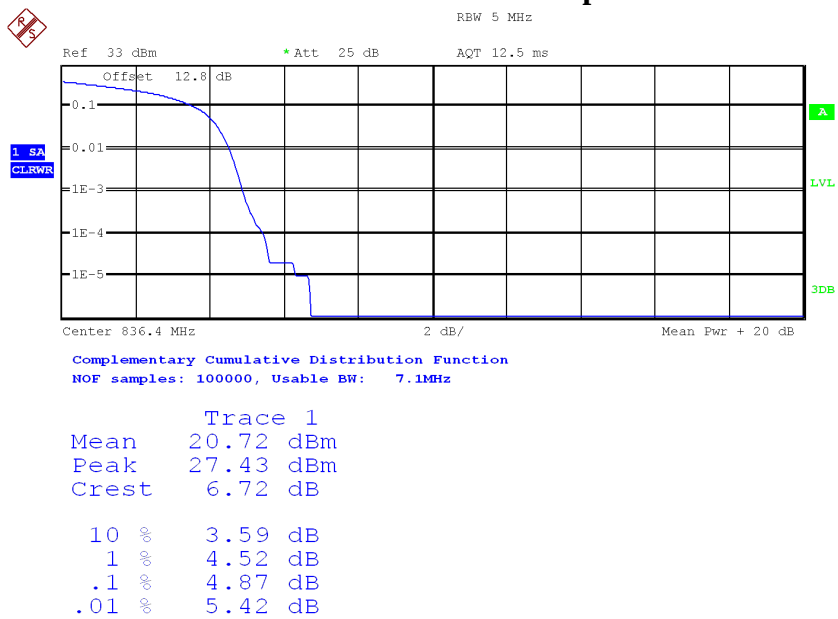
Date: 30.APR.2019 10:27:08

WCDMA Band2, QPSK



Date: 30.APR.2019 10:26:42

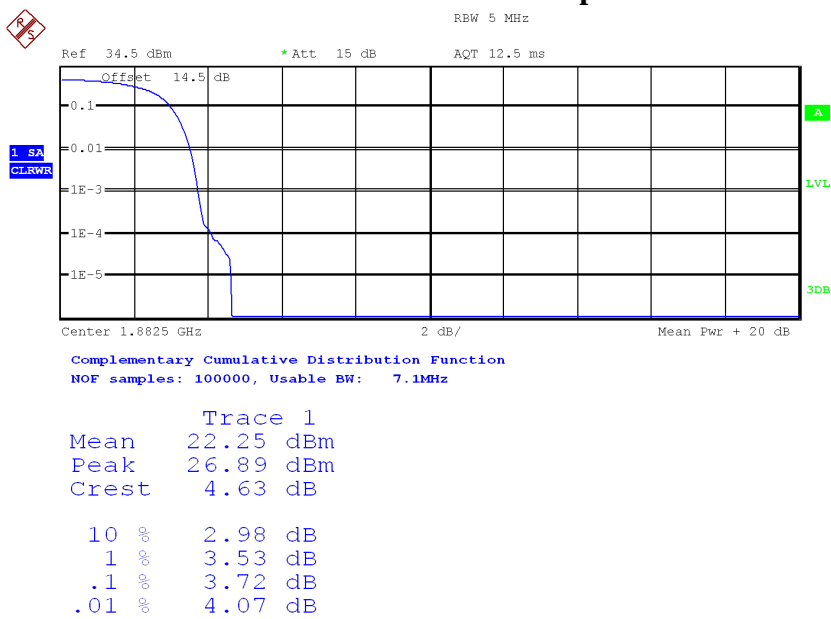
WCDMA Band4, QPSK



Date: 30.APR.2019 10:26:10

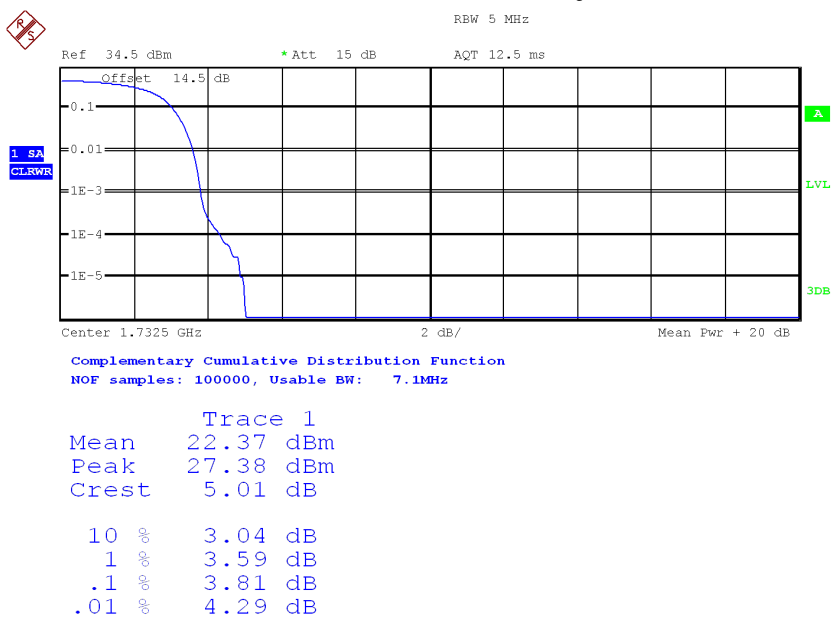
WCDMA Band5, QPSK

Report No.:B19W50128-WWAN



Date: 7.MAY.2019 16:25:18

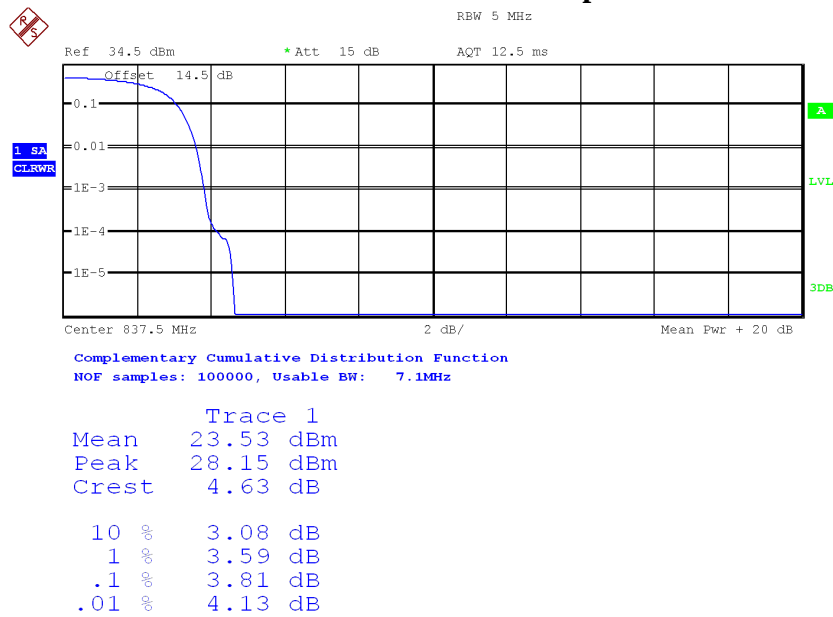
WCDMA Band2, 16QAM



Date: 7.MAY.2019 16:24:24

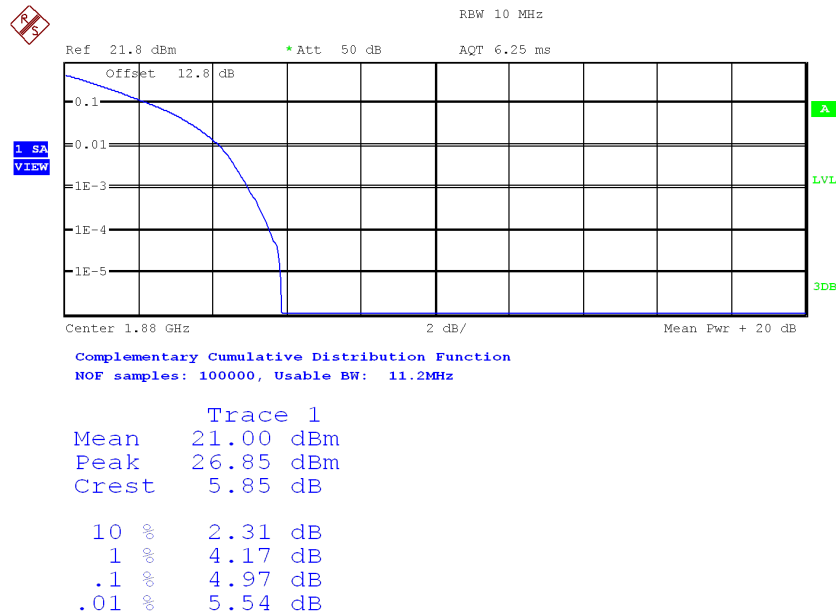
WCDMA Band4, 16QAM

Report No.:B19W50128-WWAN



Date: 7.MAY.2019 16:23:12

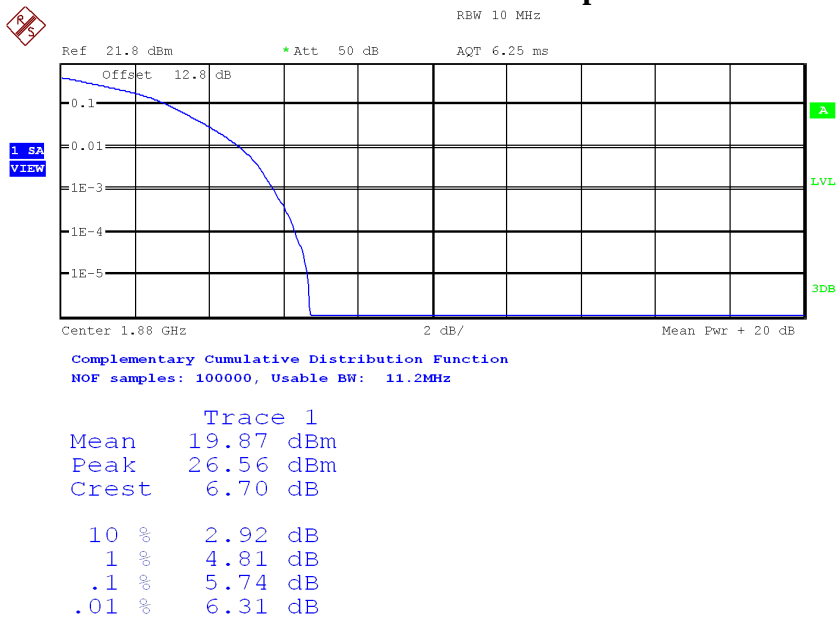
WCDMA Band5, 16QAM



Date: 29.APR.2019 14:33:45

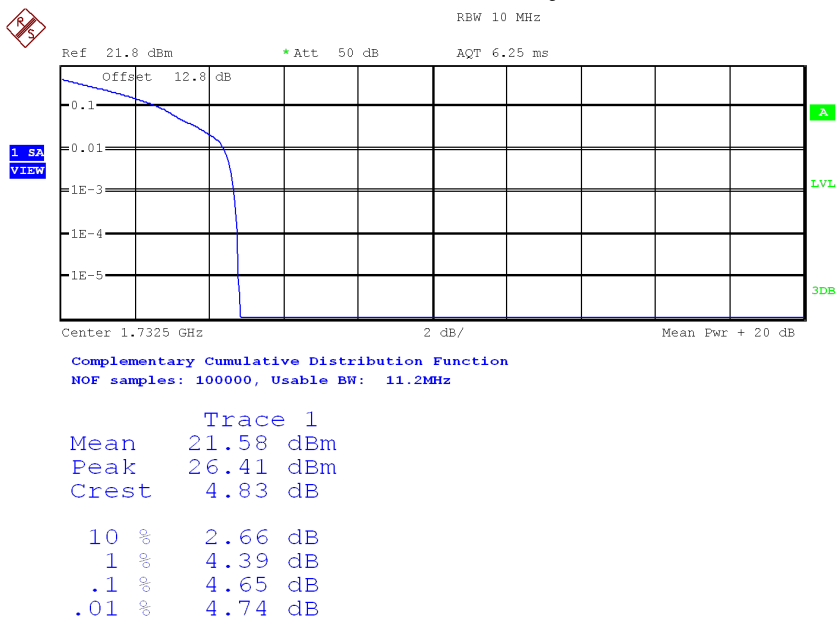
LTE Band2, QPSK

Report No.:B19W50128-WWAN



Date: 29.APR.2019 14:34:18

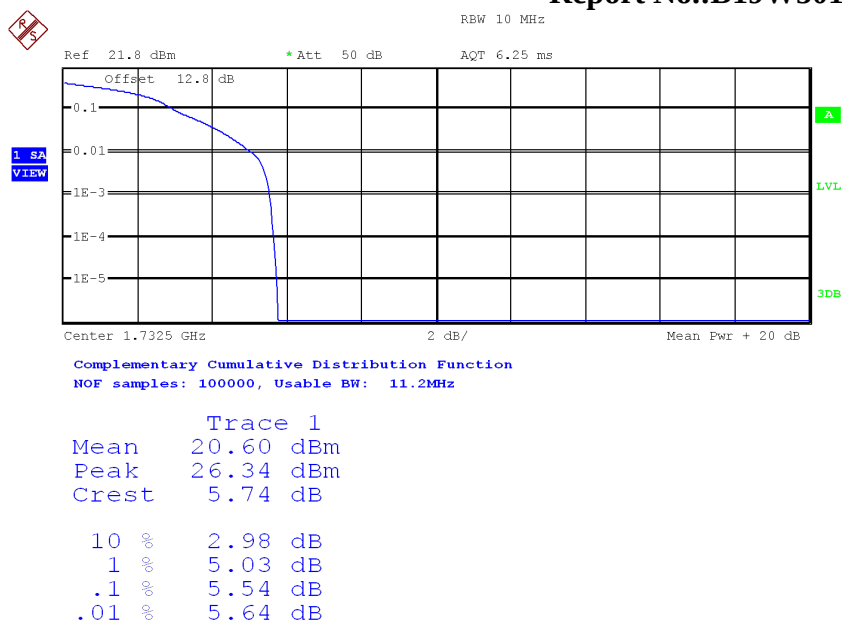
LTE Band2, 16QAM



Date: 29.APR.2019 14:36:28

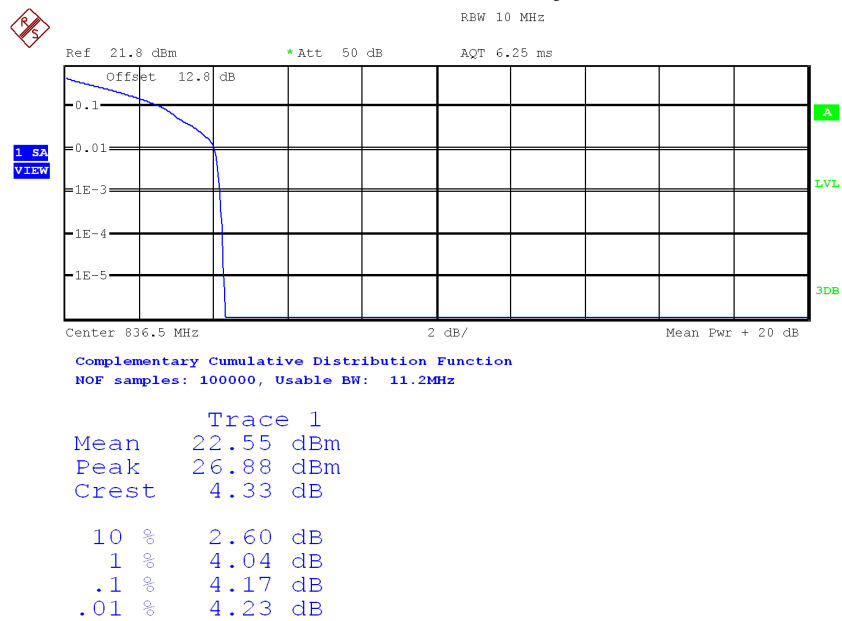
LTE Band4, QPSK

Report No.:B19W50128-WWAN



Date: 29.APR.2019 14:35:44

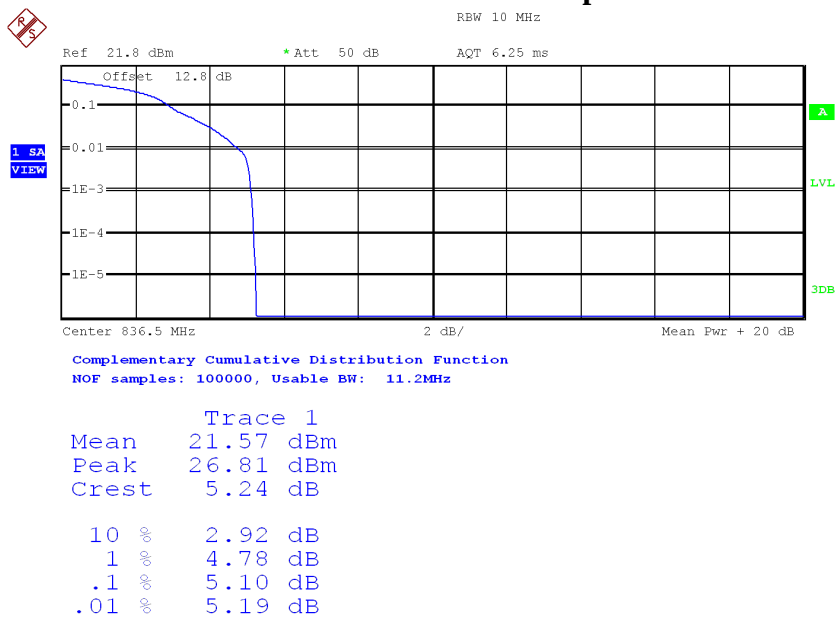
LTE Band4, 16QAM



Date: 29.APR.2019 14:55:39

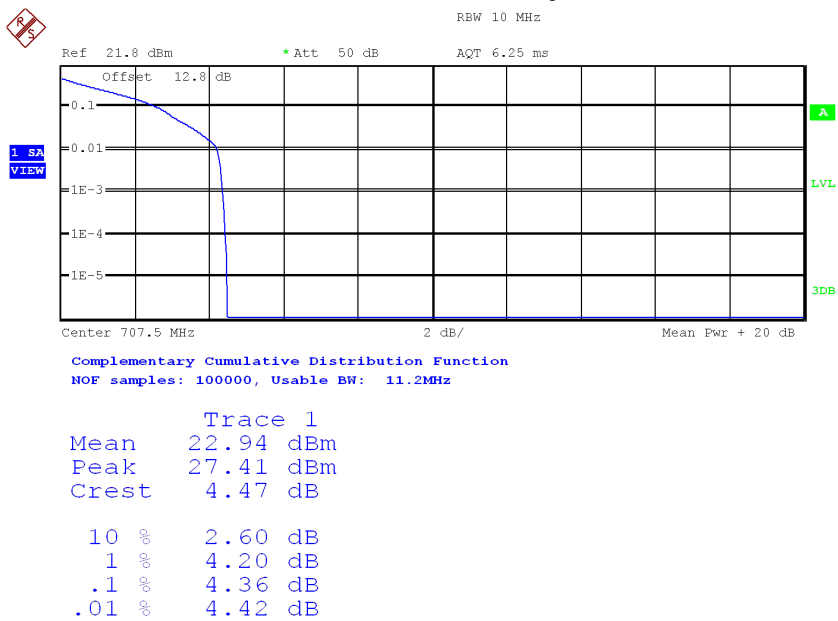
LTE Band5, QPSK

Report No.:B19W50128-WWAN



Date: 29.APR.2019 14:56:02

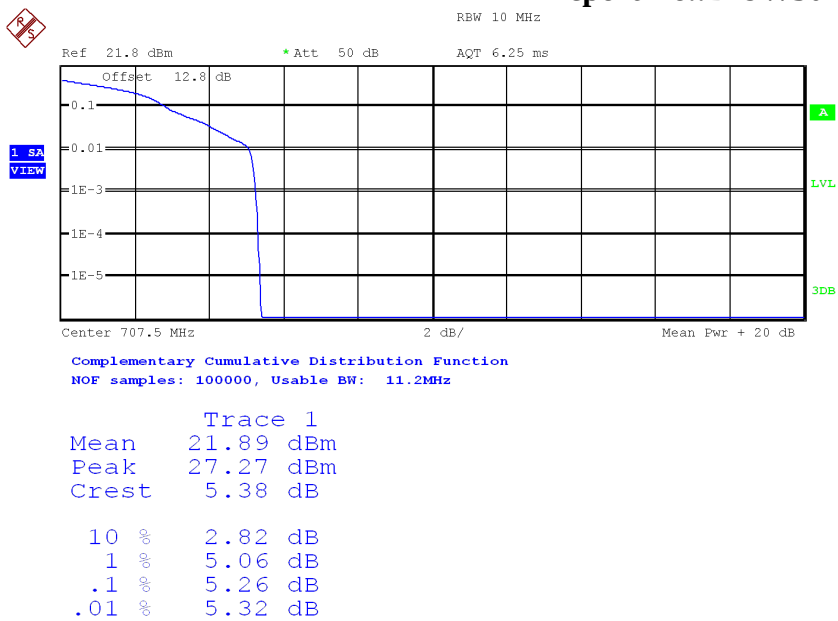
LTE Band5, 16QAM



Date: 29.APR.2019 14:42:27

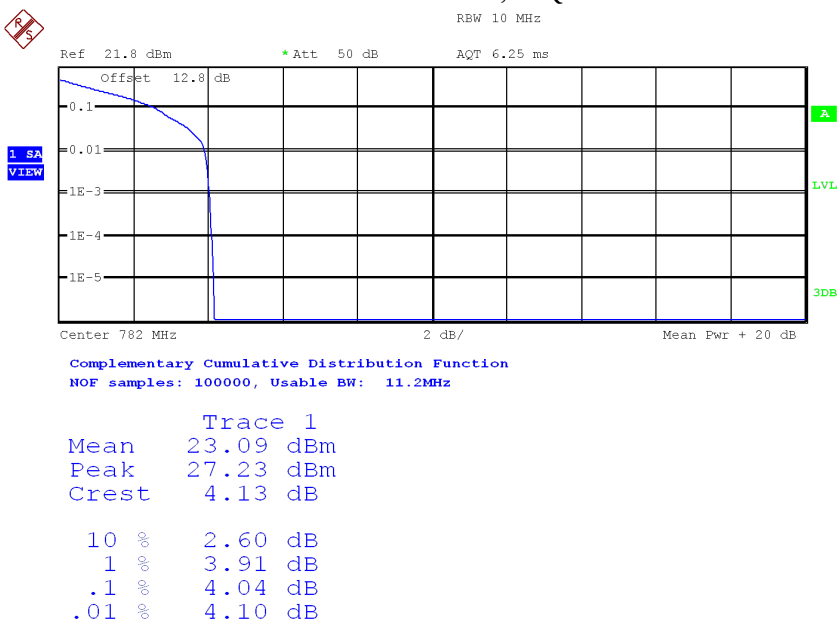
LTE Band12, QPSK

Report No.:B19W50128-WWAN



Date: 29.APR.2019 14:42:05

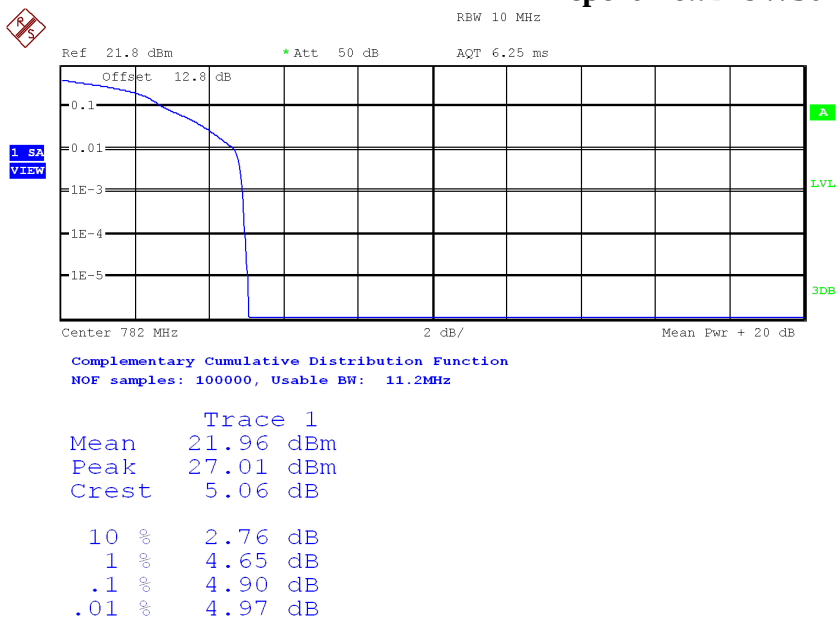
LTE Band12, 16QAM



Date: 29.APR.2019 14:54:51

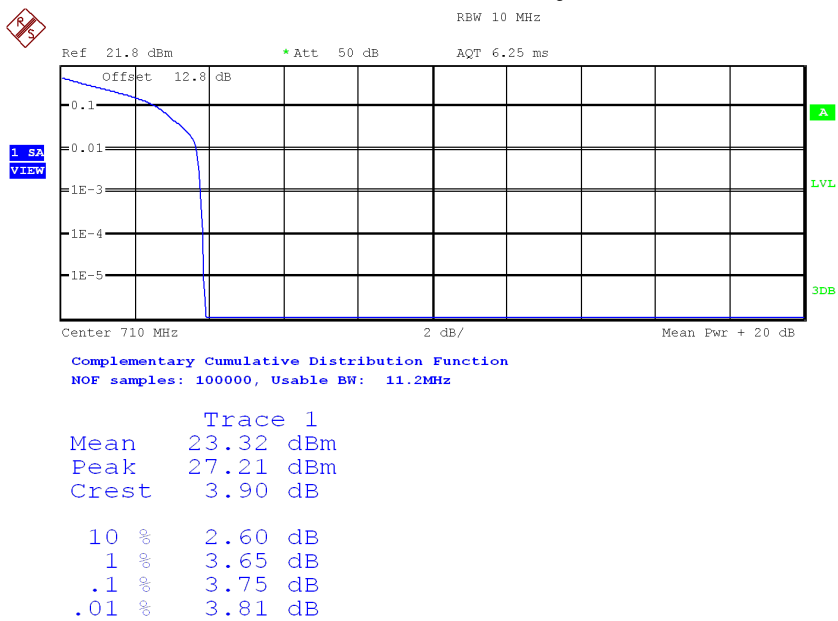
LTE Band13, QPSK

Report No.:B19W50128-WWAN



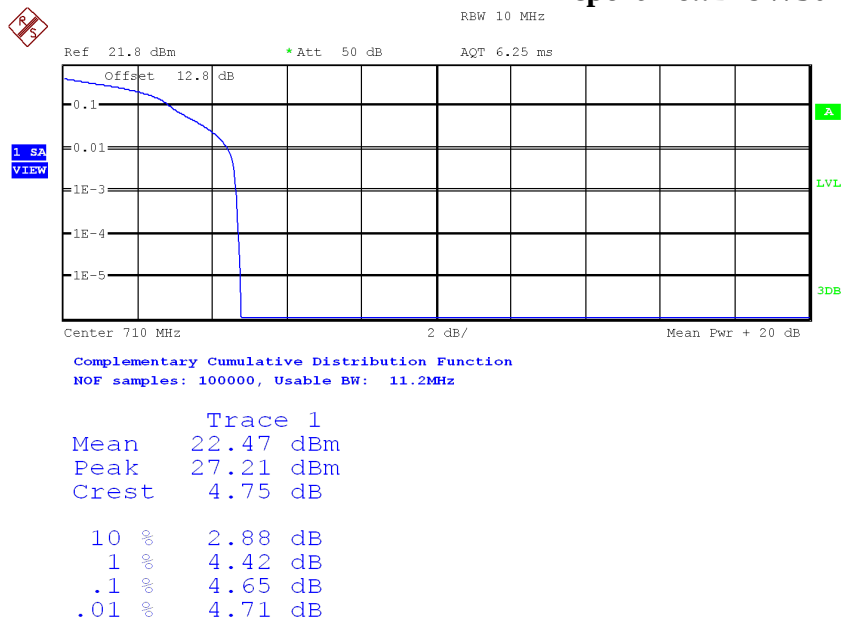
Date: 29.APR.2019 14:54:27

LTE Band13, 16QAM



Date: 29.APR.2019 14:52:55

LTE Band17, QPSK



Date: 29.APR.2019 14:53:21

LTE Band17, 16QAM

5.9 ERP and EIRP

Specifications:	FCC Part 22.913(a), 24.232(b)
DUT Serial Number:	868020030062904
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

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

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

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

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

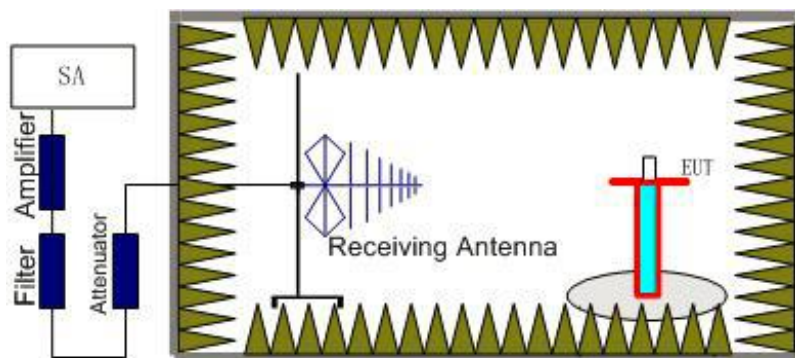
According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP".

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

Method of Measurement

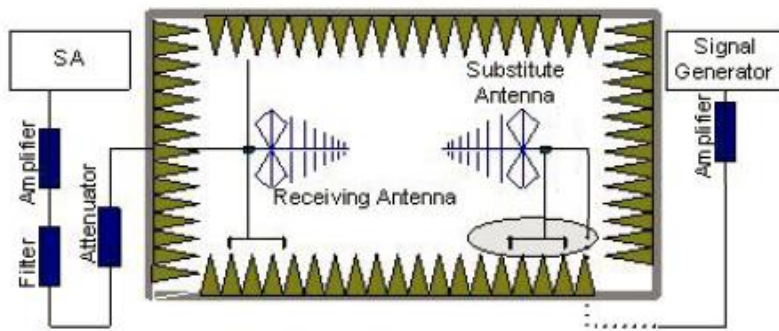
The measurements procedures in TIA-603E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from thereceive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUTfor emission measurements. The height of receiving antenna is 1.5m. The test setup refers tofigure below. Detected emissions were maximized at each frequency by rotating the EUTthrough 360° and adjusting the receiving antenna polarization. The radiated emissionmeasurements of all transmit frequencies in three channels (High, Middle, Low) weremeasured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level duringthe test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.

The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,

$$\text{ERP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

5.9.1 GSM 850 Measurement result

GPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P_d) [dBm]	Antenna Polarization [H/V]
824.2	28.54	3.4	8.0	33.14	V
836.6	29.81	3.4	6.6	33.01	V
848.8	29.09	3.4	7.2	32.89	V

EGPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P_d) [dBm]	Antenna Polarization [H/V]
824.2	28.24	3.4	8.0	32.84	V
836.6	29.47	3.4	6.6	32.67	V
848.8	28.79	3.4	7.2	32.59	V

EGPRS 8PSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
824.2	23.85	3.4	8.0	28.45	V
836.6	24.92	3.4	6.6	28.12	V
848.8	24.04	3.4	7.2	27.84	V

5.9.2 PCS 1900 Measurement result

GPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP (P_d) [dBm]	Antenna Polarization [H/V]
1850.2	25.92	5.0	7.2	28.12	V

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

1880.0	26.14	5.0	7.2	28.34	V
1909.8	25.74	5.1	6.8	27.44	V

EGPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1850.2	26.13	5.0	7.2	28.33	V
1880.0	26.09	5.0	7.2	28.29	V
1909.8	26.14	5.1	6.8	27.84	V

EGPRS 8PSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1850.2	25.23	5.0	7.2	27.43	V
1880.0	25.34	5.0	7.2	27.54	V
1909.8	26.17	5.1	6.8	27.87	V

5.9.3 WCDMA Band 2 Measurement result

QPSK Measurement result

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1852.4	18.52	5.0	7.2	20.72	V
1880.0	18.55	5.0	7.2	20.75	V
1907.6	18.69	5.1	6.8	20.39	V

16QAM Measurement result

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1852.4	18.36	5.0	7.2	20.56	V

1880	18.11	5.0	7.2	20.31	V
1907.6	18.28	5.1	6.8	19.98	V

5.9.4 WCDMA Band 4 Measurement result

QPSK Measurement result

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1712.4	17.70	4.8	7.9	20.80	V
1732.6	17.42	4.9	8.1	20.62	V
1752.6	16.08	4.9	8.8	19.98	V

16QAM Measurement result

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1712.4	17.41	4.8	7.9	20.51	V
1732.6	17.02	4.9	8.1	20.22	V
1752.6	15.75	4.9	8.8	19.65	V

5.9.5 WCDMA Band 5 Measurement result

QPSK Measurement result

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P_d) [dBm]	Antenna Polarization [H/V]
826.4	16.40	3.4	7.3	20.30	V
836.4	17.26	3.4	6.6	20.46	V
846.6	16.14	3.4	7.2	19.94	V

16QAM Measurement result

Frequency [MHz]	Generator output	Cable loss [dB]	Antenna Gain [dB]	ERP(P_d) [dBm]	Antenna Polarization
-----------------	------------------	-----------------	-------------------	--------------------	----------------------

	power(P_g) [dBm]				[H/V]
826.4	16.24	3.4	7.3	20.14	V
836.4	17.05	3.4	6.6	20.25	V
846.6	17.07	3.4	7.2	20.87	V

5.9.6 LTE Band 2 Measurement result

LTE Band 2_1.4 MHz_QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1850.7	18.45	5.0	7.2	20.65	V
1880.0	18.16	5.0	7.2	20.36	V
1909.3	18.11	5.1	6.8	19.81	V

LTE Band 2_1.4 MHz_16QAM

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1850.7	18.74	5.0	7.2	20.94	V
1880.0	18.36	5.0	7.2	20.56	V
1909.3	18.37	5.1	6.8	20.07	V

LTE Band 2_3 MHz_QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P_d) [dBm]	Antenna Polarization [H/V]
1851.5	18.09	5.0	7.2	20.29	V
1880.0	18.12	5.0	7.2	20.32	V
1908.5	18.98	5.1	6.8	20.68	V

LTE Band 2_3 MHz_16QAM

Frequency	Generator	Cable loss	Antenna	EIRP(P_d)	Antenna
-----------	-----------	------------	---------	---------------	---------

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	[dBm]	Polarization [H/V]
1851.5	18.18	5.0	7.2	20.38	V
1880.0	18.32	5.0	7.2	20.52	V
1908.5	18.06	5.1	6.8	19.76	V

LTE Band 2_5 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1852.5	18.58	5.0	7.2	20.78	V
1880.0	18.58	5.0	7.2	20.78	V
1907.5	18.54	5.1	6.8	20.24	V

LTE Band 2_5 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1852.5	18.96	5.0	7.2	21.16	V
1880.0	18.44	5.0	7.2	20.64	V
1907.5	18.77	5.1	6.8	20.47	V

LTE Band 2_10 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1855.0	18.22	5.0	7.2	20.42	V
1880.0	18.26	5.0	7.2	20.46	V
1905.0	18.21	5.1	6.8	19.91	V

LTE Band 2_10 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

1855.0	18.44	5.0	7.2	20.64	V
1880.0	18.53	5.0	7.2	20.73	V
1905.0	18.51	5.1	6.8	20.21	V

LTE Band 2_15 MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1857.5	18.11	5.0	7.2	20.31	V
1880.0	18.52	5.0	7.2	20.72	V
1902.5	18.32	5.1	6.8	20.02	V

LTE Band 2_15 MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1857.5	18.84	5.0	7.2	21.04	V
1880.0	18.10	5.0	7.2	20.30	V
1902.5	18.31	5.1	6.8	20.01	V

LTE Band 2_20 MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1850.0	18.10	5.0	7.2	20.30	V
1880.0	18.32	5.0	7.2	20.52	V
1910.0	18.86	5.1	6.8	20.56	V

LTE Band 2_20 MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1850.0	17.93	5.0	7.2	20.13	V
1880.0	18.23	5.0	7.2	20.43	V

1910.0	18.17	5.1	6.8	19.87	V
--------	-------	-----	-----	-------	---

5.9.7 LTE Band 4 Measurement result

LTE Band 4_1.4 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1710.7	17.01	4.8	7.9	20.11	V
1732.5	17.60	4.9	8.1	20.80	V
1754.3	17.24	4.9	8.8	21.14	V

LTE Band 4_1.4 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1710.7	17.83	4.8	7.9	20.93	V
1732.5	17.46	4.9	8.1	20.66	V
1754.3	17.88	4.9	8.8	21.78	V

LTE Band 4_3 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1711.5	17.89	4.8	7.9	20.99	V
1732.5	17.74	4.9	8.1	20.94	V
1753.5	17.21	4.9	8.8	21.11	V

LTE Band 4_3 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1711.5	17.25	4.8	7.9	20.35	V
1732.5	17.70	4.9	8.1	20.90	V

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

1753.5	17.46	4.9	8.8	21.36	V
--------	-------	-----	-----	-------	---

LTE Band 4_5 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1712.5	17.66	4.8	7.9	20.76	V
1732.5	17.97	4.9	8.1	21.17	V
1752.5	17.21	4.9	8.8	21.11	V

LTE Band 4_5 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1712.5	17.13	4.8	7.9	20.23	V
1732.5	17.86	4.9	8.1	21.06	V
1752.5	17.77	4.9	8.8	21.67	V

LTE Band 4_10 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1715.0	17.70	4.8	7.9	20.80	V
1732.5	17.73	4.8	8.1	21.03	V
1750.0	17.57	4.9	8.4	21.07	V

LTE Band 4_10 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1715.0	17.04	4.8	7.9	20.14	V
1732.5	17.10	4.8	8.1	20.40	V
1750.0	17.21	4.9	8.4	20.71	V

LTE Band 4_15 MHz_QPSK

Frequency	Generator	Cable loss	Antenna	EIRP(P _d)	Antenna
-----------	-----------	------------	---------	-----------------------	---------

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

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

[MHz]	output power(P _g) [dBm]	[dB]	Gain [dB]	[dBm]	Polarization [H/V]
1717.5	17.16	4.8	7.9	20.26	V
1732.5	17.63	4.8	8.1	20.93	V
1747.5	17.98	4.9	8.1	21.18	V

LTE Band 4_15 MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1717.5	17.64	4.8	7.9	20.74	V
1732.5	17.45	4.8	8.1	20.75	V
1747.5	17.32	4.9	8.1	20.52	V

LTE Band 4_20MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1720.0	17.19	4.8	7.9	20.29	V
1732.5	17.83	4.9	8.1	21.03	V
1745.0	17.13	4.9	8.1	20.33	V

LTE Band 4_20MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP(P _d) [dBm]	Antenna Polarization [H/V]
1720.0	17.03	4.8	7.9	20.13	V
1732.5	17.02	4.9	8.1	20.22	V
1745.0	17.04	4.9	8.1	20.24	V

5.9.8 LTE Band 5 Measurement result

LTE Band 5_1.4 MHz_QPSK

Frequency	Generator	Cable loss	Antenna	ERP(P _d)	Antenna
-----------	-----------	------------	---------	----------------------	---------

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

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

[MHz]	output power(Pg) [dBm]	[dB]	Gain [dB]	[dBm]	Polarization [H/V]
824.7	17.02	3.4	7.3	20.92	V
836.5	17.29	3.4	6.6	20.49	V
848.3	17.81	3.4	7.2	21.61	V

LTE Band 5_1.4 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _a) [dBm]	Antenna Polarization [H/V]
824.7	17.67	3.4	7.3	21.57	V
836.5	17.93	3.4	6.6	21.13	V
848.3	17.05	3.4	7.2	20.85	V

LTE Band 5_3 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _a) [dBm]	Antenna Polarization [H/V]
825.5	17.44	3.4	7.3	21.34	V
836.5	17.06	3.4	6.6	20.26	V
847.5	17.89	3.4	7.2	21.69	V

LTE Band 5_3 MHz_16QAM

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _a) [dBm]	Antenna Polarization [H/V]
825.5	17.04	3.4	7.3	20.94	V
836.5	17.56	3.4	6.6	20.76	V
847.5	17.69	3.4	7.2	21.49	V

LTE Band 5_5 MHz_QPSK

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _a) [dBm]	Antenna Polarization [H/V]

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

826.5	17.07	3.4	7.3	20.97	V
836.5	17.63	3.4	6.6	20.83	V
846.5	17.98	3.4	7.2	21.78	V

LTE Band 5_5 MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _d) [dBm]	Antenna Polarization [H/V]
826.5	17.03	3.4	7.3	20.93	V
836.5	17.11	3.4	6.6	20.31	V
846.5	17.82	3.4	7.2	21.62	V

LTE Band 5_10MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _d) [dBm]	Antenna Polarization [H/V]
829.0	16.47	3.4	7.3	20.37	V
836.4	17.32	3.4	6.6	20.52	V
844.0	17.19	3.4	6.6	20.39	V

LTE Band 5_10MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP(P _d) [dBm]	Antenna Polarization [H/V]
829.0	16.28	3.4	7.3	20.18	V
836.4	17.89	3.4	6.6	21.09	V
844.0	17.58	3.4	6.6	20.78	V

5.9.9 LTE Band 12 Measurement result

LTE Band 12_1.4MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
--------------------	--	--------------------	----------------------	--------------------------------	----------------------------------

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

699.7	14.80	3.1	8.9	20.60	V
707.5	14.96	3.1	9.1	20.96	V
715.2	14.33	3.1	9.1	20.33	V

LTE Band 12_1.4MHz_ 16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
699.7	14.07	3.1	8.9	19.87	V
707.5	14.28	3.1	9.1	20.28	V
715.2	14.42	3.1	9.1	20.42	V

LTE Band 12_3MHz_ QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
704.0	14.30	3.1	8.9	20.10	V
707.5	14.73	3.1	9.1	20.73	V
711.0	14.42	3.1	9.1	20.42	V

LTE Band 12_3MHz_ 16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
704.0	14.81	3.1	8.9	20.61	V
707.5	14.61	3.1	9.1	20.61	V
711.0	14.75	3.1	9.1	20.75	V

LTE Band 12_5MHz_ QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
704.0	14.16	3.1	8.9	19.96	V
707.5	14.82	3.1	9.1	20.82	V

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

711.0	14.44	3.1	9.1	20.44	V
-------	-------	-----	-----	-------	---

LTE Band 12_5MHz_ 16QAM

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
704.0	14.26	3.1	8.9	20.06	V
707.5	14.28	3.1	9.1	20.28	V
711.0	14.20	3.1	9.1	20.20	V

LTE Band 12_10MHz_ QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
704.0	14.93	3.1	8.9	20.73	V
707.5	13.94	3.1	9.1	19.94	V
711.0	14.53	3.1	9.1	20.53	V

LTE Band 12_10MHz_ 16QAM

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
704.0	14.68	3.1	8.9	20.48	V
707.5	14.17	3.1	9.1	20.17	V
711.0	14.37	3.1	9.1	20.37	V

5.9.10 LTE Band 13 Measurement result

LTE Band 13_5MHz_QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
779.5	15.32	3.3	8.1	20.12	V
782.0	15.52	3.3	8.1	20.32	V

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

785.5	15.41	3.3	8.0	20.11	V
-------	-------	-----	-----	-------	---

LTE Band 13_5MHz_16QAM

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
779.5	15.51	3.3	8.1	20.31	V
782.0	15.68	3.3	8.1	20.48	V
785.5	15.91	3.3	8.0	20.61	V

LTE Band 13_10MHz_QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
782.0	15.81	3.3	8.1	20.61	V

LTE Band 13_10MHz_16QAM

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
782.0	15.24	3.3	8.1	20.04	V

5.9.11 LTE Band 17 Measurement result

LTE Band 17_5MHz_QPSK

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
706.5	14.04	3.1	9.1	20.04	V
710.0	14.95	3.1	9.1	20.95	V
713.4	14.21	3.1	9.1	20.21	V

LTE Band 17_5MHz_16QAM

Frequency [MHz]	Generator output power(P_g)	Cable loss [dB]	Antenna Gain [dB]	ERP (P_d) [dBm]	Antenna Polarization [H/V]
--------------------	---------------------------------------	--------------------	----------------------	------------------------	----------------------------------

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

	[dBm]				
706.5	14.90	3.1	9.1	20.90	V
710.0	14.49	3.1	9.1	20.49	V
713.4	14.43	3.1	9.1	20.43	V

LTE Band 17_10MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
709.0	14.87	3.1	9.1	20.87	V
710.0	14.56	3.1	9.1	20.56	V
711.0	14.61	3.1	9.1	20.61	V

LTE Band 17_10MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP (P _d) [dBm]	Antenna Polarization [H/V]
709.0	14.44	3.1	9.1	20.44	V
710.0	14.18	3.1	9.1	20.18	V
711.0	14.39	3.1	9.1	20.39	V

Annex A EUT Photos

See the document'' BM816 -External Photos''.

See the document'' BM816 -Internal Photos''.

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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