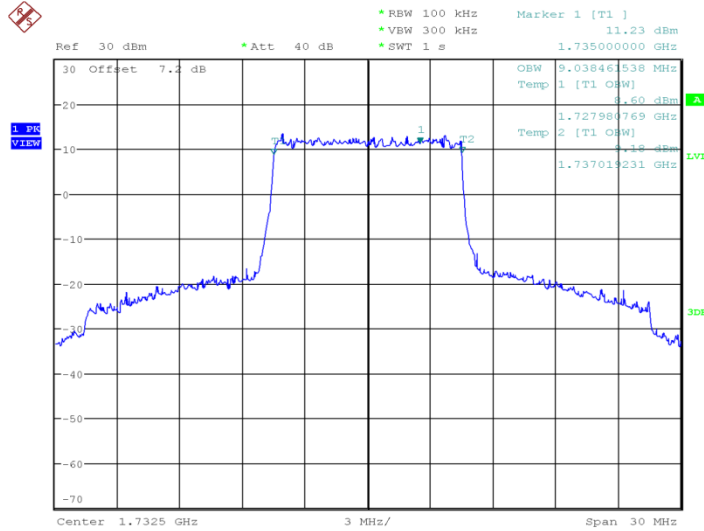


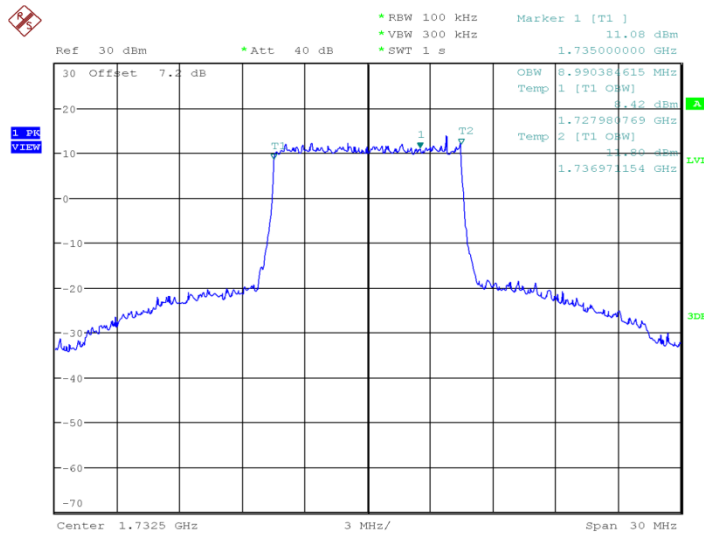
LTE band 4, 10MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	1732.5	QPSK
	9.038	8.99

LTE band 4, 10MHz Bandwidth, QPSK (99% BW)



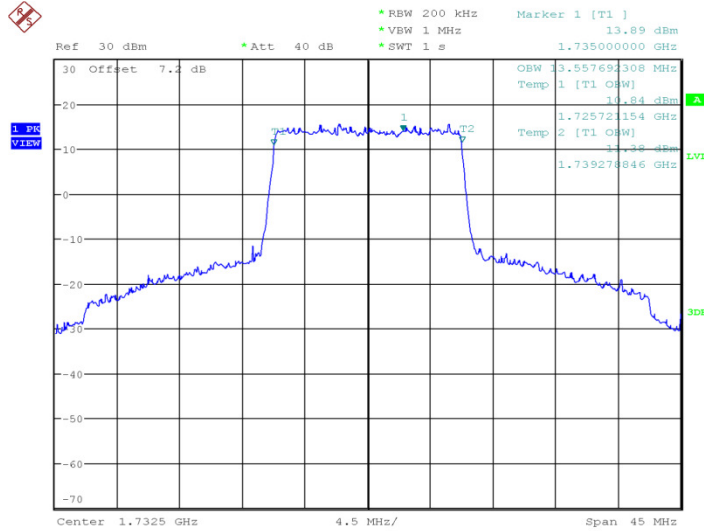
LTE band 4, 10MHz Bandwidth, 16QAM (99% BW)



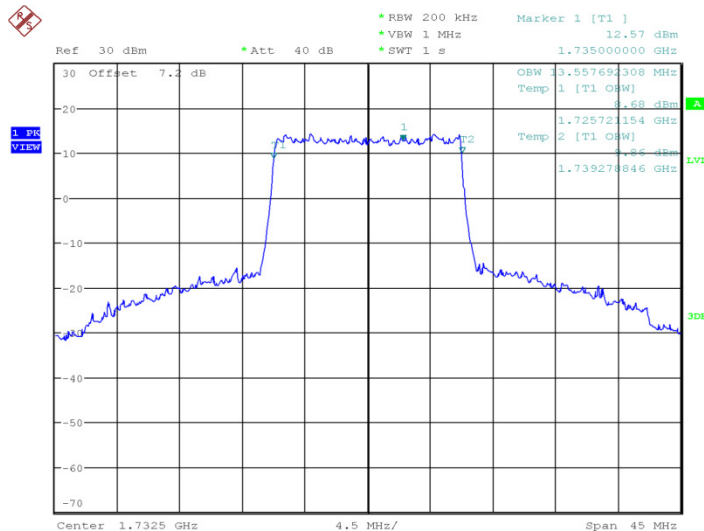
LTE band 4, 15MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	1732.5	QPSK
	13.558	13.558

LTE band 4, 15MHz Bandwidth, QPSK (99% BW)



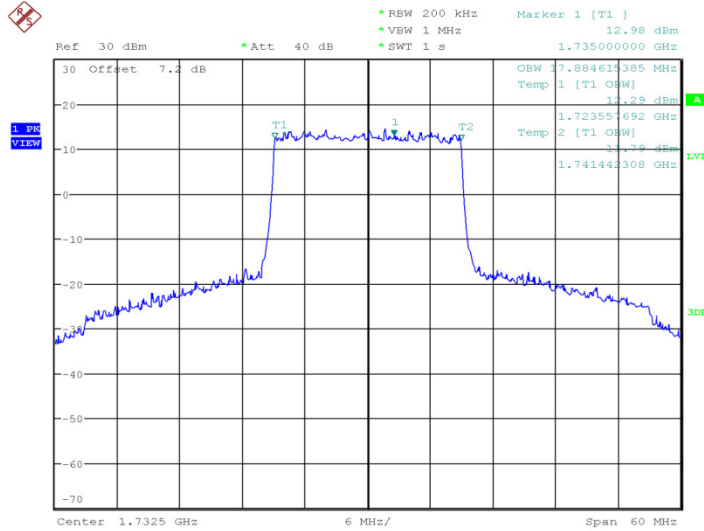
LTE band 4, 15MHz Bandwidth, 16QAM (99% BW)



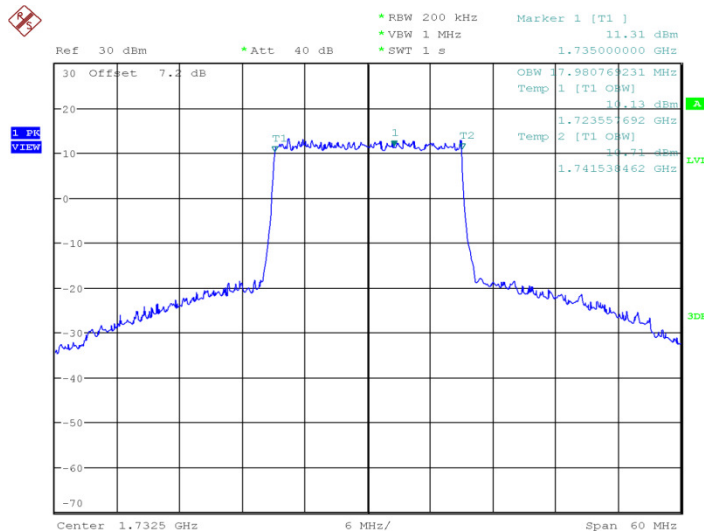
LTE band 4, 20MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
1732.5	QPSK	16QAM
	17.885	17.981

LTE band 4, 20MHz Bandwidth, QPSK (99% BW)



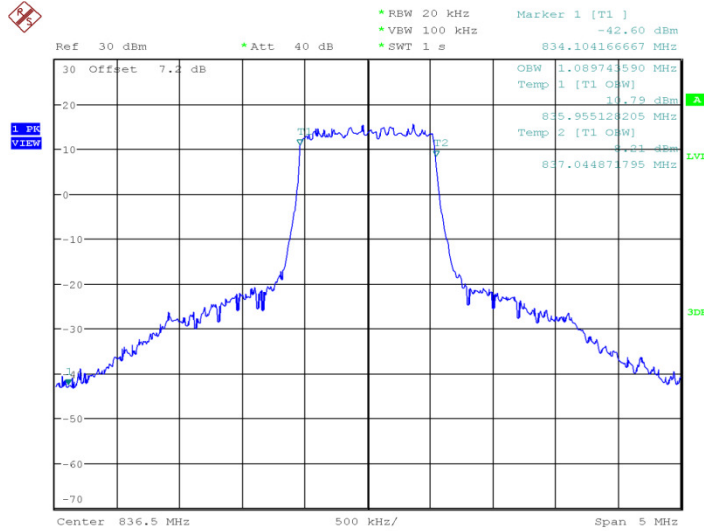
LTE band 4, 20MHz Bandwidth, 16QAM (99% BW)



LTE band 5, 1.4MHz (99%)

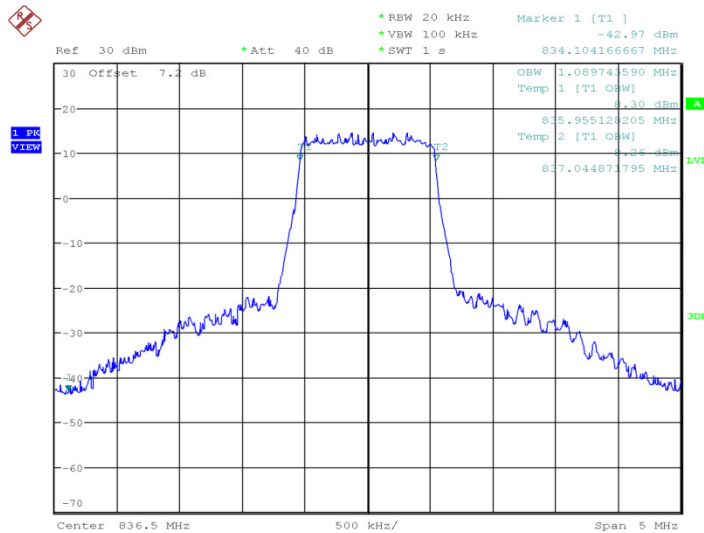
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	836.5	QPSK
	1.09	1.09

LTE band 5, 1.4MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:02:42

LTE band 5, 1.4MHz Bandwidth, 16QAM (99% BW)

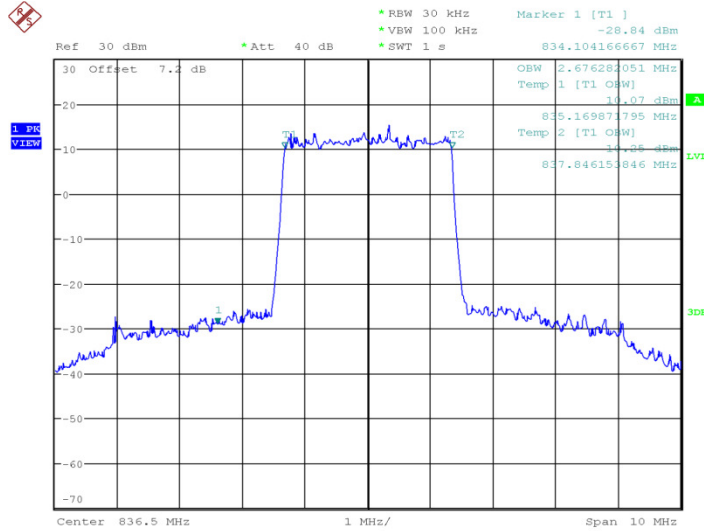


IF Overload
Date: 2.JAN.2003 10:03:09

LTE band 5, 3MHz (99%)

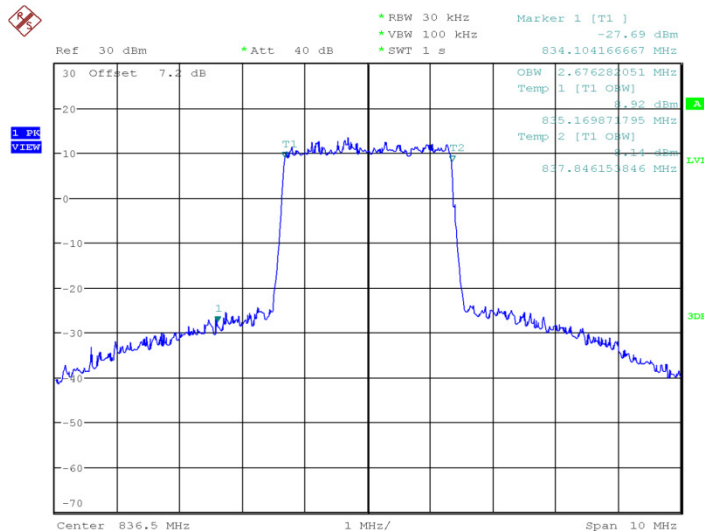
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
836.5	QPSK	16QAM
	2.676	2.676

LTE band 5, 3MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:03:44

LTE band 5, 3MHz Bandwidth, 16QAM (99% BW)

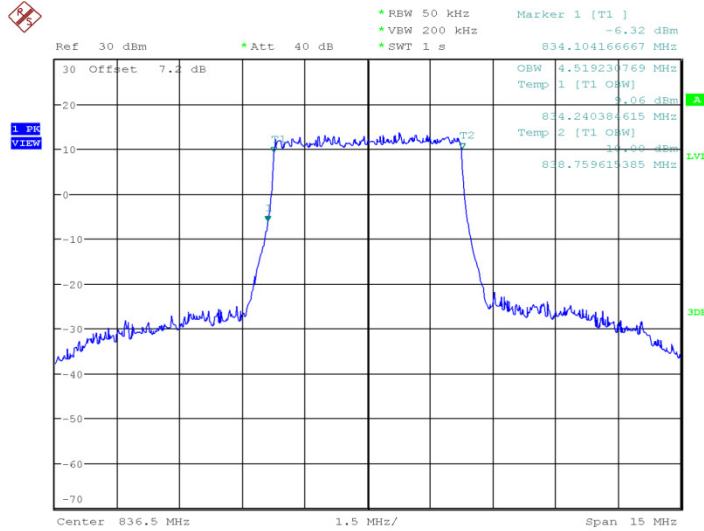


IF Overload
Date: 2.JAN.2003 10:04:11

LTE band 5, 5MHz (99%)

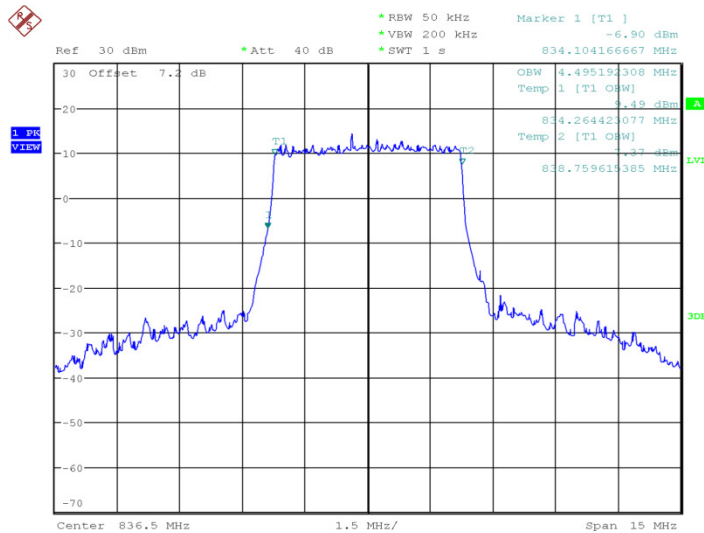
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	836.5	QPSK
	4.519	4.495

LTE band 5, 5MHz Bandwidth, QPSK (99% BW)



IF Overload
 Date: 2.JAN.2003 10:04:46

LTE band 5, 5MHz Bandwidth, 16QAM (99% BW)

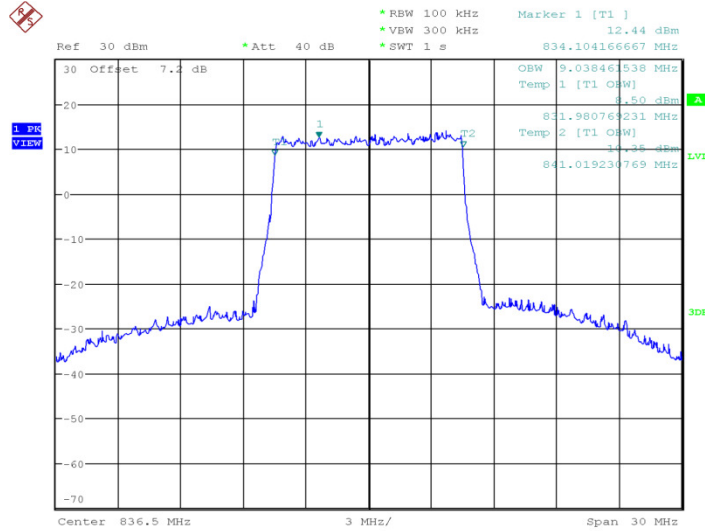


IF Overload
 Date: 2.JAN.2003 10:05:14

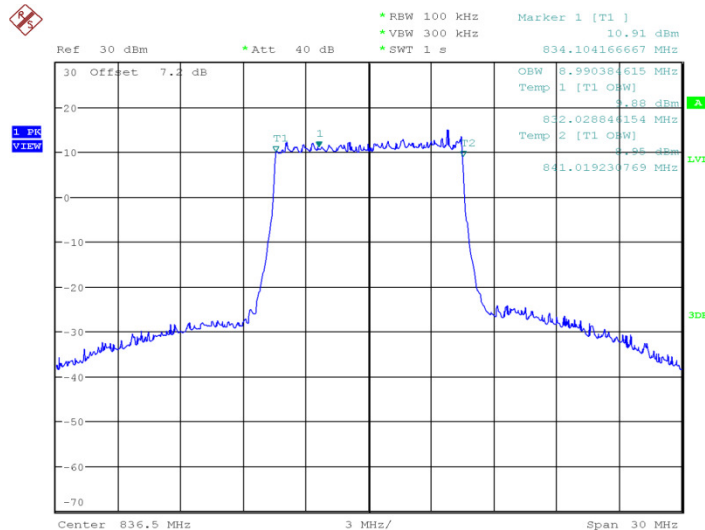
LTE band 5, 10MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	836.5	QPSK
	9.038	8.99

LTE band 5, 10MHz Bandwidth, QPSK (99% BW)



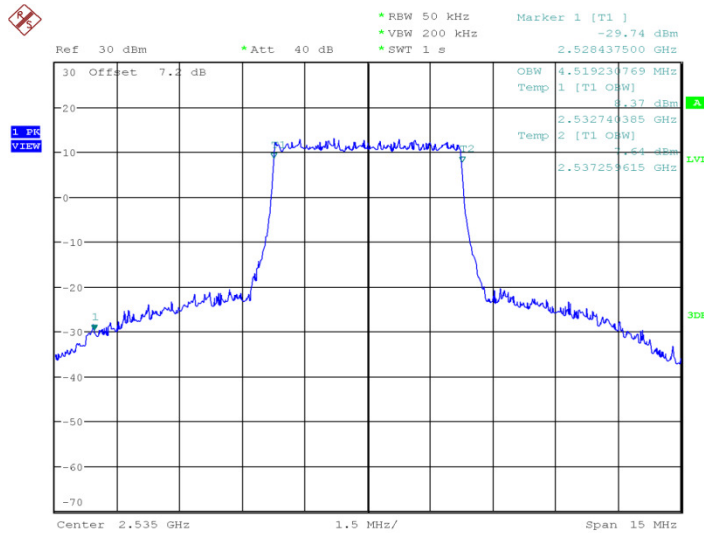
LTE band 5, 10MHz Bandwidth, 16QAM (99% BW)



LTE band 7, 5MHz (99%)

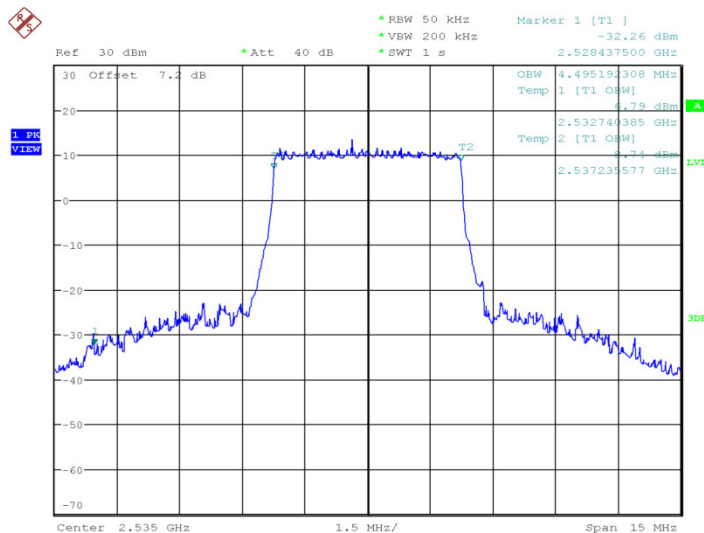
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
2535.0	QPSK	16QAM
	4.519	4.495

LTE band 7, 5MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:09:51

LTE band 7, 5MHz Bandwidth,16QAM (99% BW)

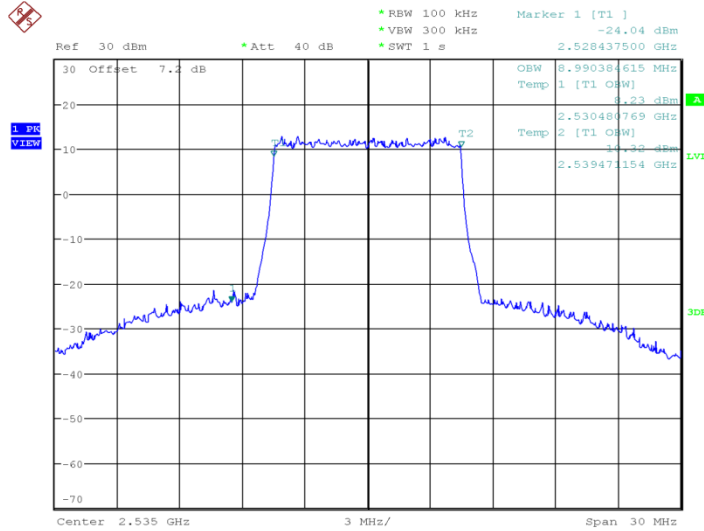


IF Overload
Date: 2.JAN.2003 10:10:18

LTE band 7, 10MHz (99%)

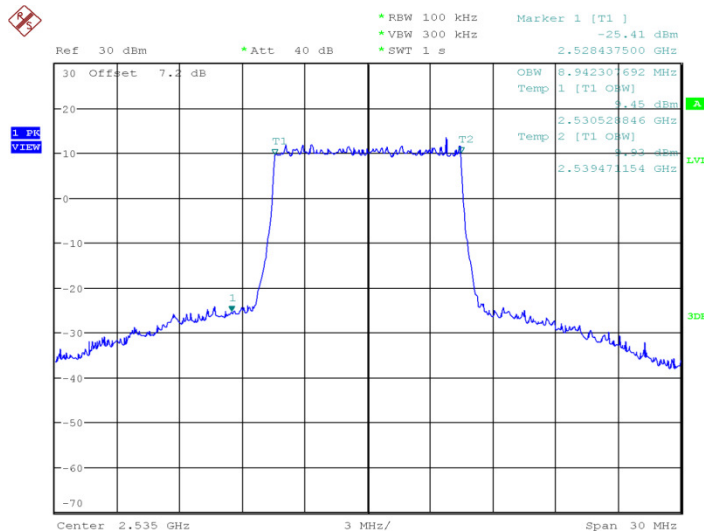
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	2535.0	QPSK
	8.99	8.942

LTE band 7, 10MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:10:54

LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)

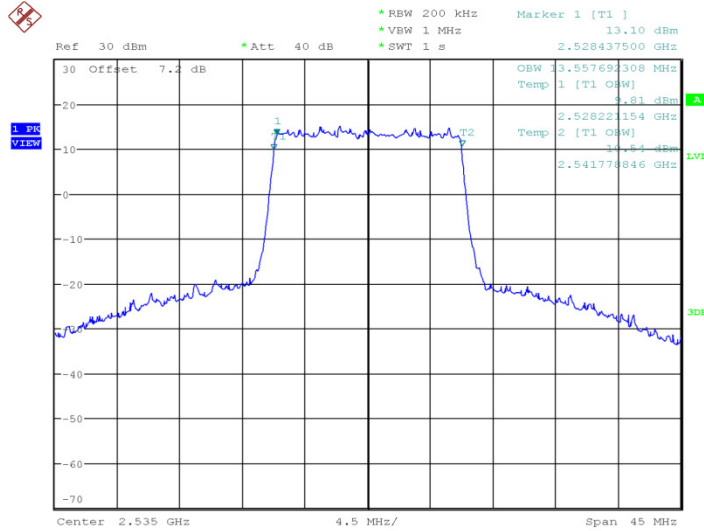


IF Overload
Date: 2.JAN.2003 10:11:21

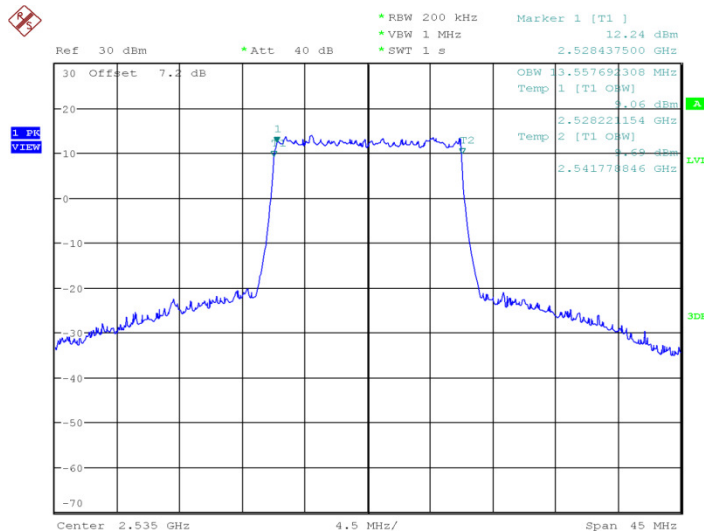
LTE band 7, 15MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	2535.0	QPSK
	13.558	13.558

LTE band 7, 15MHz Bandwidth, QPSK (99% BW)



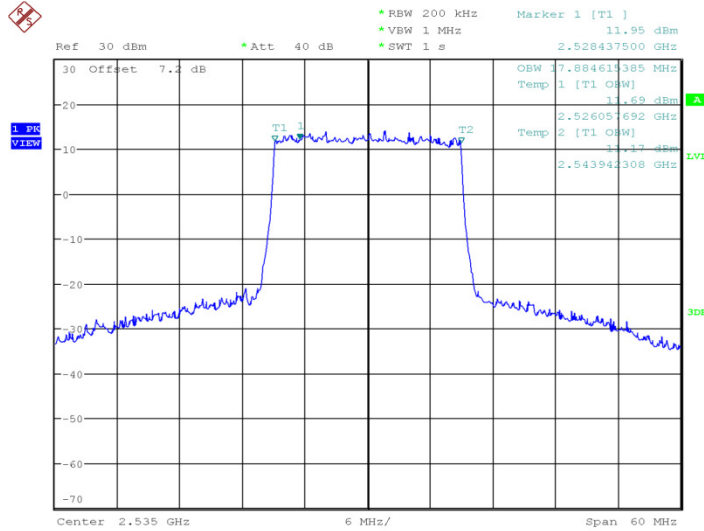
LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)



LTE band 7, 20MHz (99%)

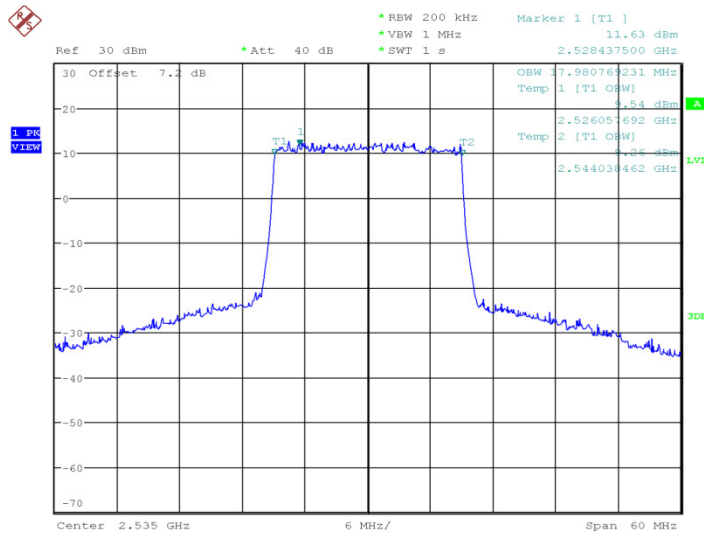
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	2535.0	QPSK
	17.885	17.981

LTE band 7, 20MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:12:58

LTE band 7, 20MHz Bandwidth, 16QAM (99% BW)

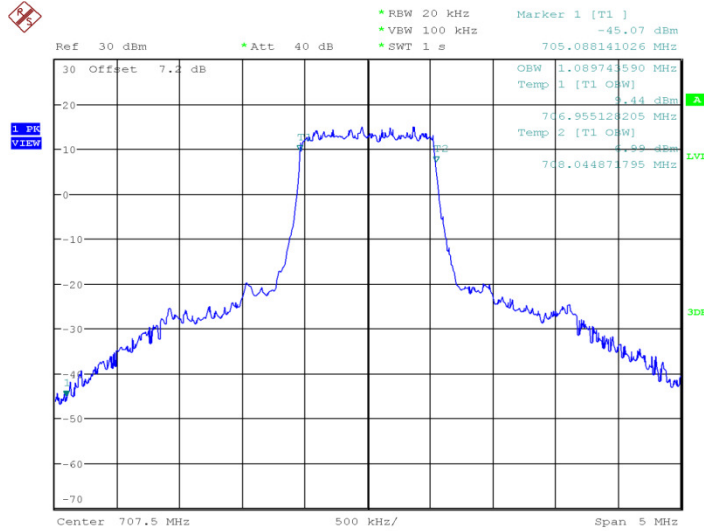


IF Overload
Date: 2.JAN.2003 10:13:25

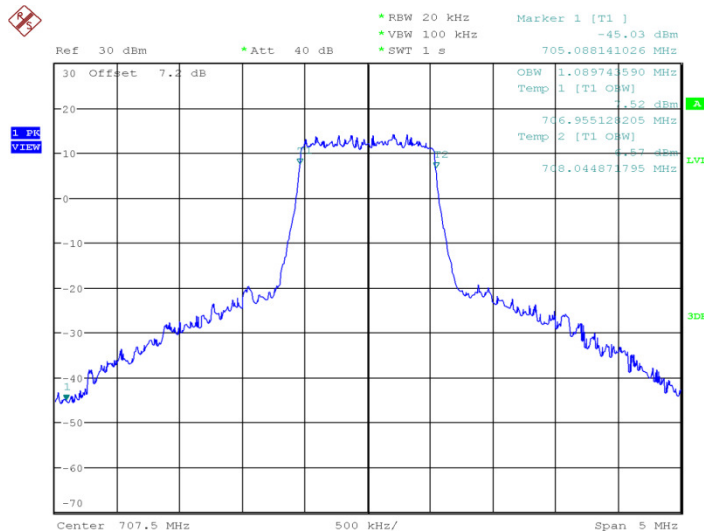
LTE band 12, 1.4MHz (99%)

Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
707.5	QPSK	16QAM
	1.09	1.09

LTE band 12, 1.4MHz Bandwidth, QPSK (99% BW)



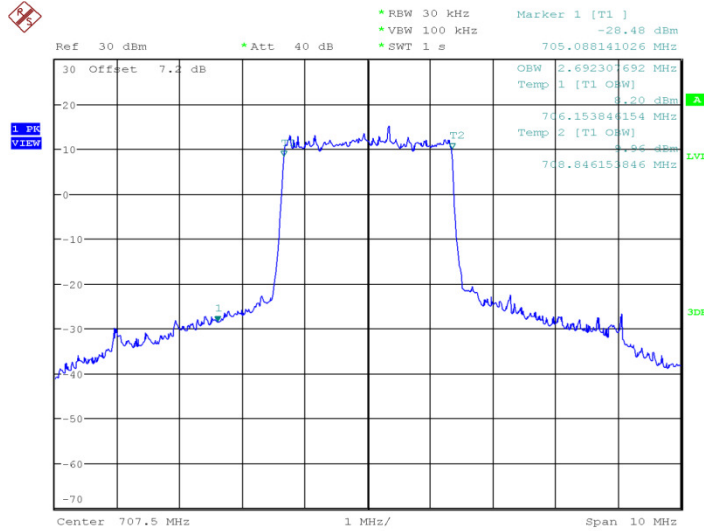
LTE band 12, 1.4MHz Bandwidth, 16QAM (99% BW)



LTE band 12, 3MHz (99%)

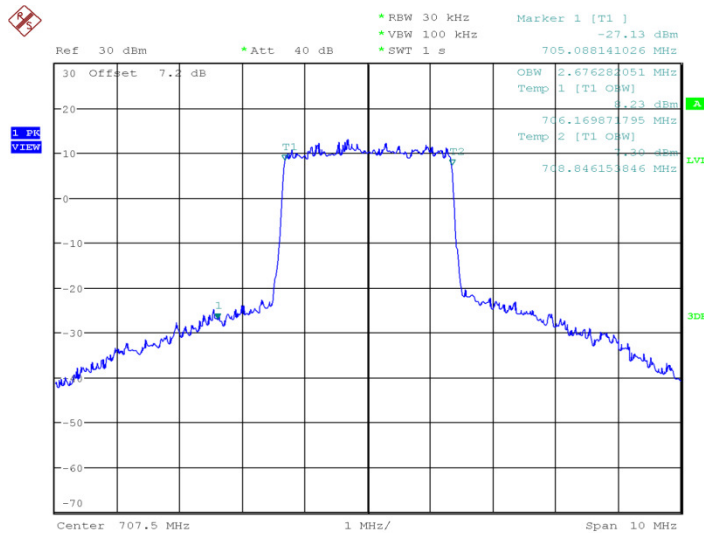
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	707.5	QPSK
	2.692	2.676

LTE band 12, 3MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:15:37

LTE band 12, 3MHz Bandwidth, 16QAM (99% BW)

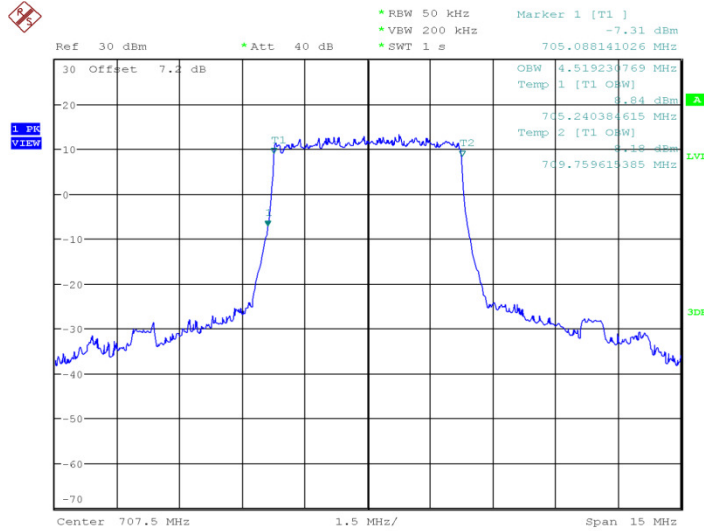


IF Overload
Date: 2.JAN.2003 10:16:04

LTE band 12, 5MHz (99%)

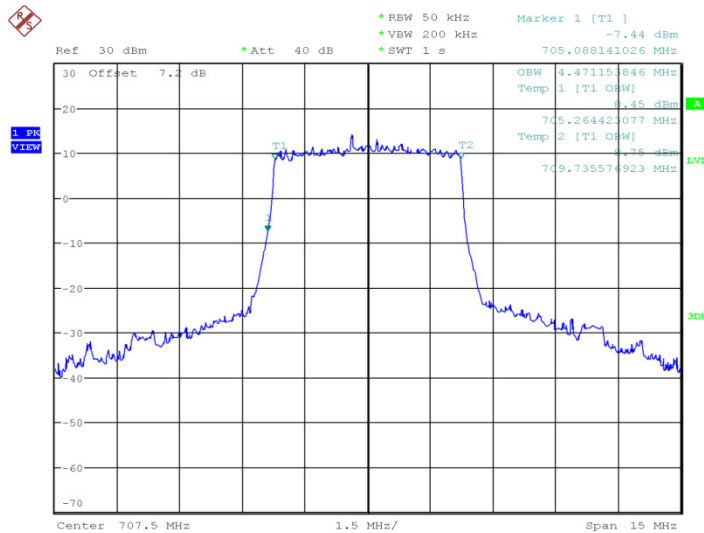
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
	707.5	QPSK
	4.519	4.471

LTE band 12, 5MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:16:40

LTE band 12, 5MHz Bandwidth, 16QAM (99% BW)

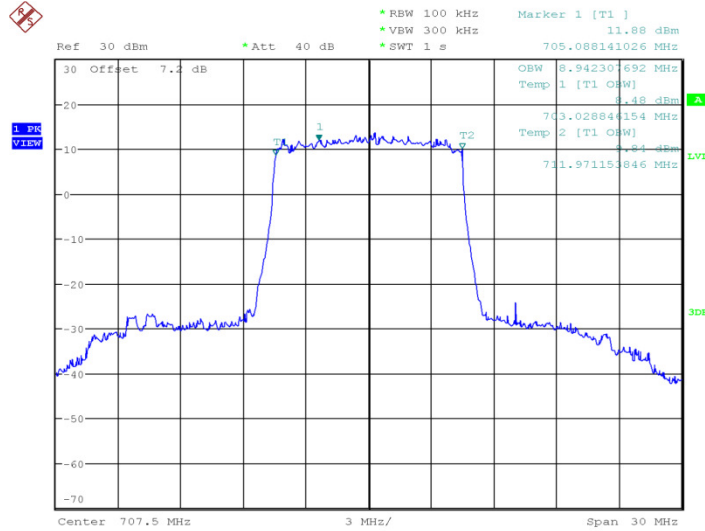


IF Overload
Date: 2.JAN.2003 10:17:08

LTE band 12, 10MHz (99%)

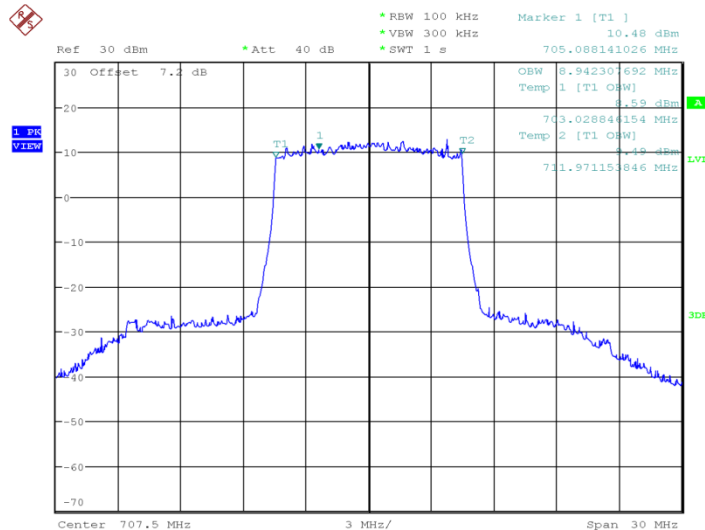
Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	
707.5	QPSK	16QAM
	8.942	8.942

LTE band 12, 10MHz Bandwidth, QPSK (99% BW)



IF Overload
Date: 2.JAN.2003 10:17:44

LTE band 12, 10MHz Bandwidth, 16QAM (99% BW)



IF Overload
Date: 2.JAN.2003 10:18:11

ANNEX A.5. EMISSION BANDWIDTH

Reference

FCC: CFR Part 22.917(b),24.238(a), 27.53(g),27.53(h), 27.53(m)

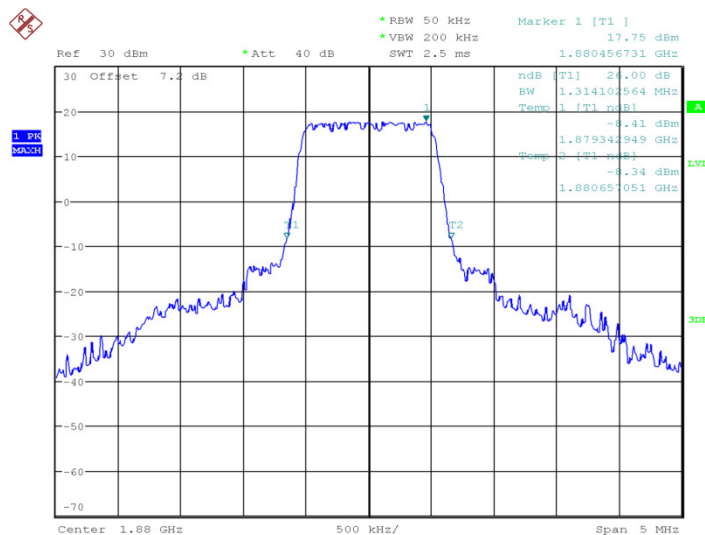
A.5.1 Emission Bandwidth Results

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

LTE band 2, 1.4MHz (-26dBc)

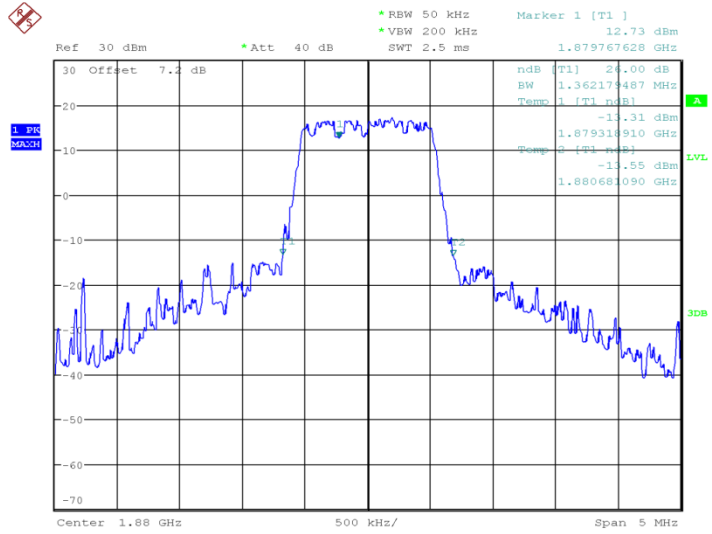
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
1880.0	QPSK	16QAM
	1.314	1.362

LTE band 2, 1.4MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:04:48

LTE band 2, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

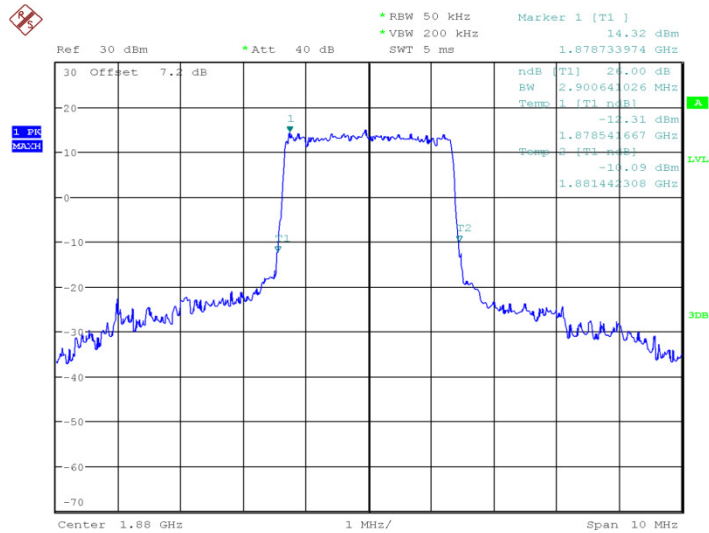


IF Overload
 Date: 2.JAN.2003 09:05:01

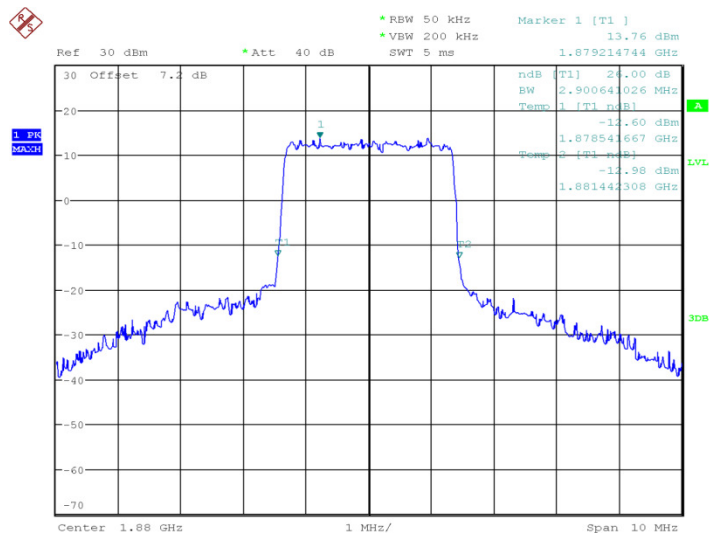
LTE band 2, 3MHz (-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
1880.0	QPSK	16QAM
	2.901	2.901

LTE band 2, 3MHz Bandwidth, QPSK (-26dBc BW)



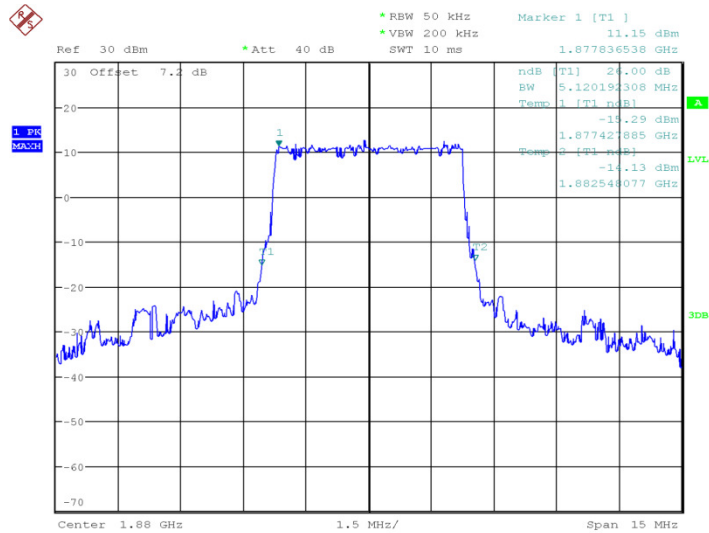
LTE band 2, 3MHz Bandwidth, 16QAM (-26dBc BW)



LTE band 2, 5MHz (-26dBc)

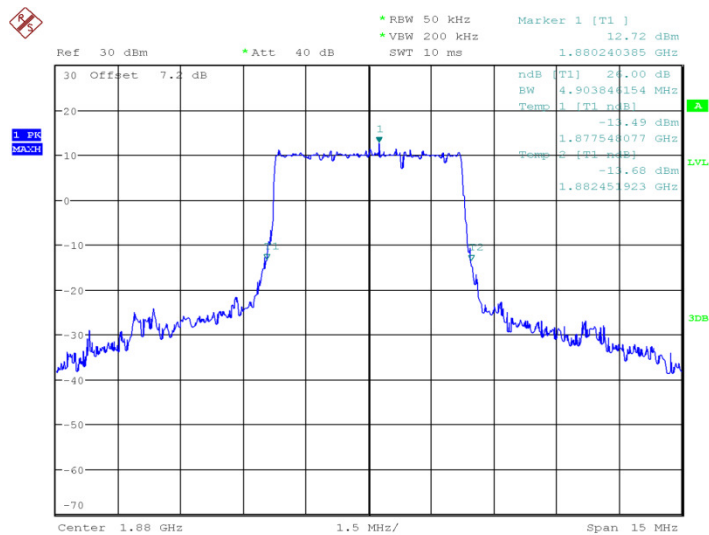
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1880.0	QPSK
5.120		4.904

LTE band 2, 5MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
 Date: 2.JAN.2003 09:05:58

LTE band 2, 5MHz Bandwidth, 16QAM (-26dBc BW)

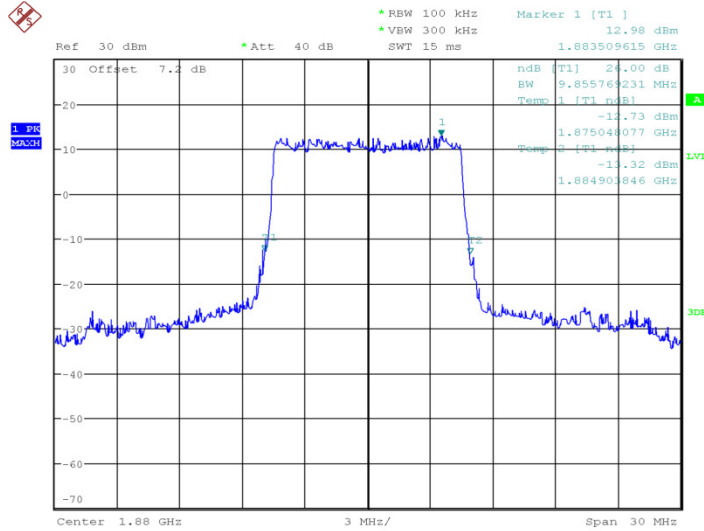


IF Overload
 Date: 2.JAN.2003 09:06:11

LTE band 2, 10MHz (-26dBc)

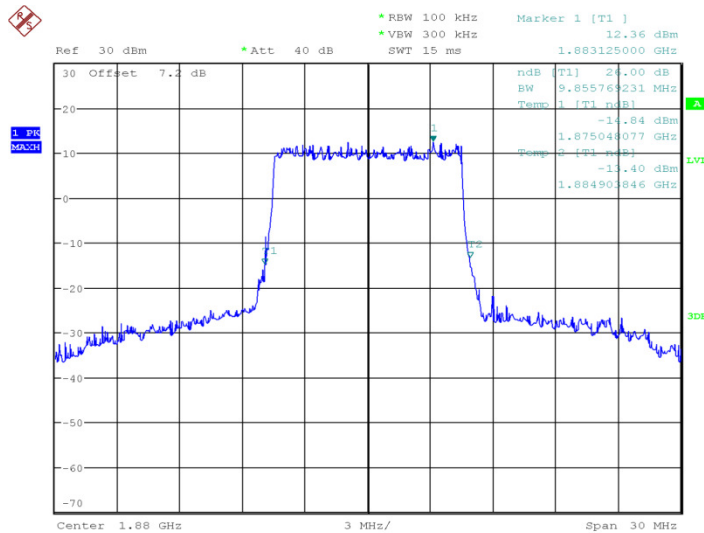
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1880.0	QPSK
9.856		9.856

LTE band 2, 10MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:06:32

LTE band 2, 10MHz Bandwidth, 16QAM (-26dBc BW)

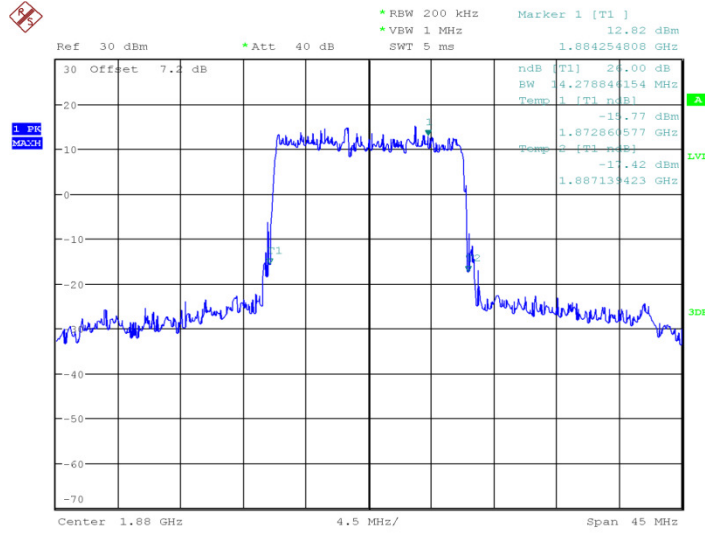


IF Overload
Date: 2.JAN.2003 09:06:45

LTE band 2, 15MHz (-26dBc)

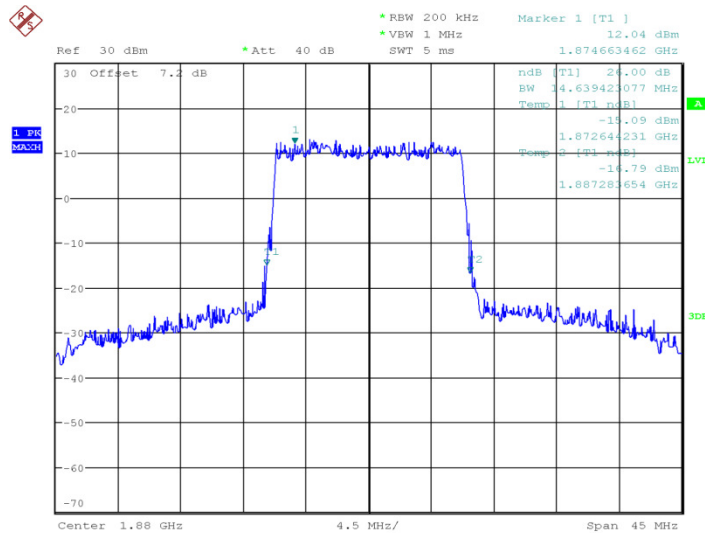
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1880.0	QPSK
	14.279	14.639

LTE band 2, 15MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:07:07

LTE band 2, 15MHz Bandwidth, 16QAM (-26dBc BW)

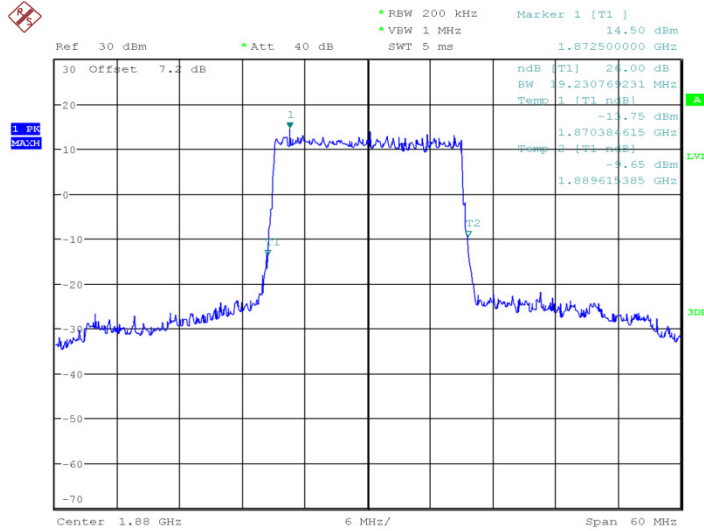


IF Overload
Date: 2.JAN.2003 09:07:19

LTE band 2, 20MHz (-26dBc)

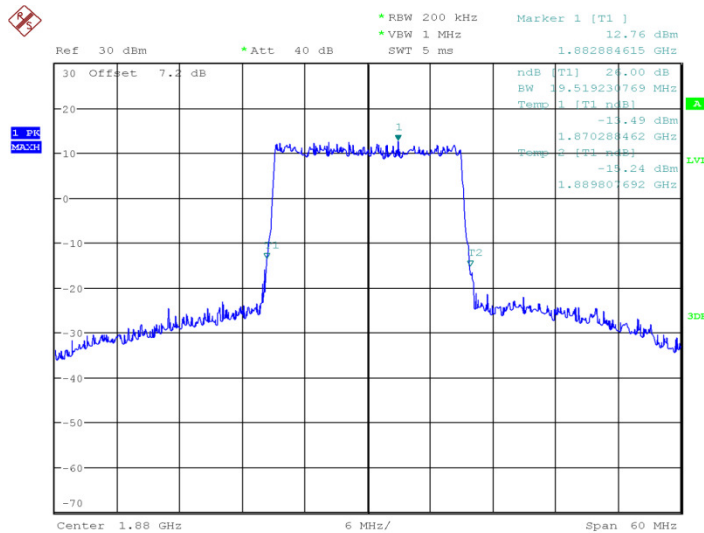
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1880.0	QPSK
	19.231	19.519

LTE band 2, 20MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:07:41

LTE band 2, 20MHz Bandwidth, 16QAM (-26dBc BW)

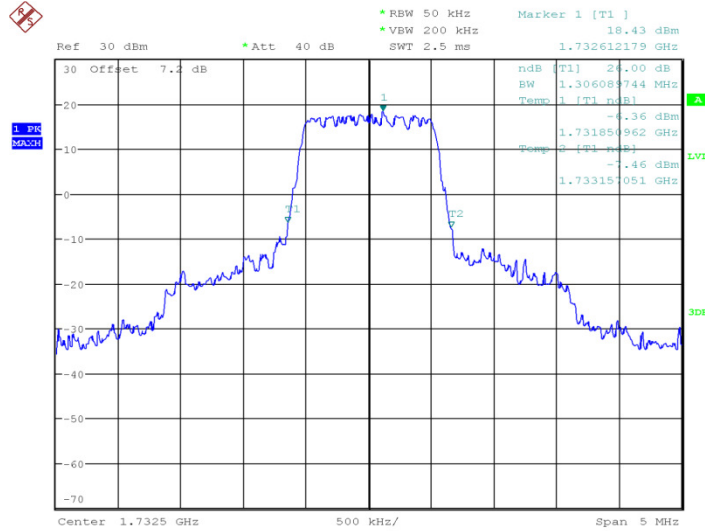


IF Overload
Date: 2.JAN.2003 09:07:53

LTE band 4, 1.4MHz (-26dBc)

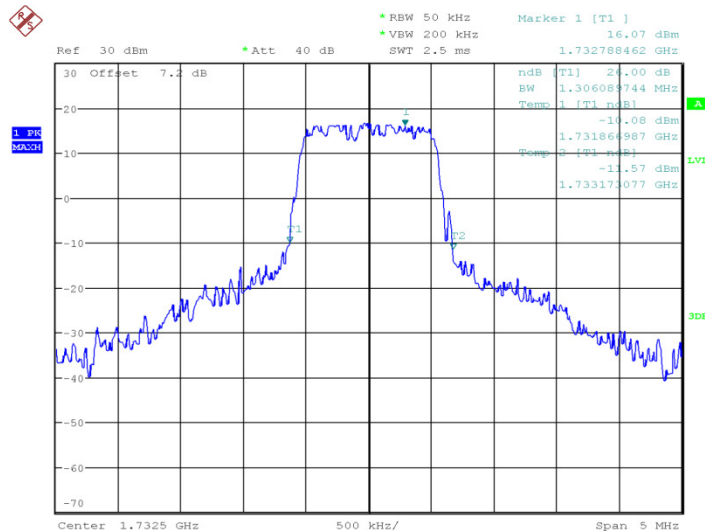
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1732.5	QPSK
1.306		1.306

LTE band 4, 1.4MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:08:15

LTE band 4, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

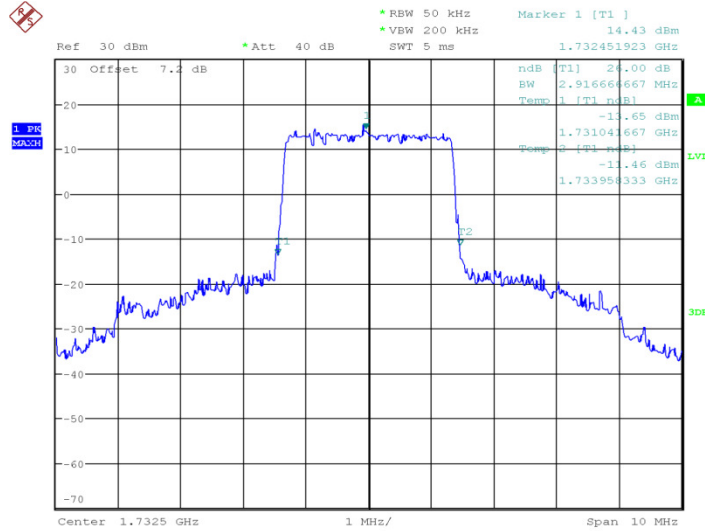


IF Overload
Date: 2.JAN.2003 09:08:28

LTE band 4, 3MHz (-26dBc)

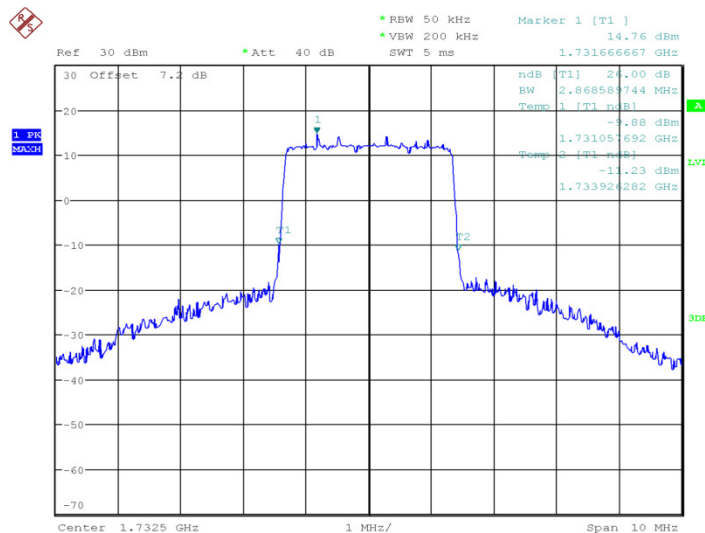
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1732.5	2.917	2.869

LTE band 4, 3MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
 Date: 2.JAN.2003 09:08:49

LTE band 4, 3MHz Bandwidth, 16QAM (-26dBc BW)

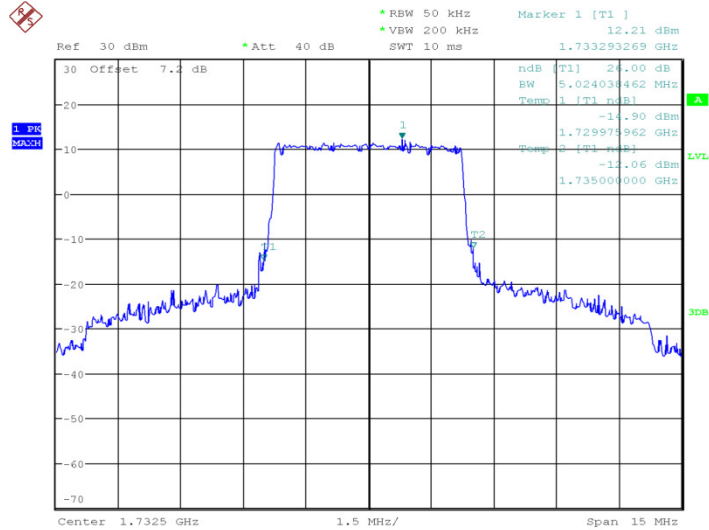


IF Overload
 Date: 2.JAN.2003 09:09:02

LTE band 4, 5MHz (-26dBc)

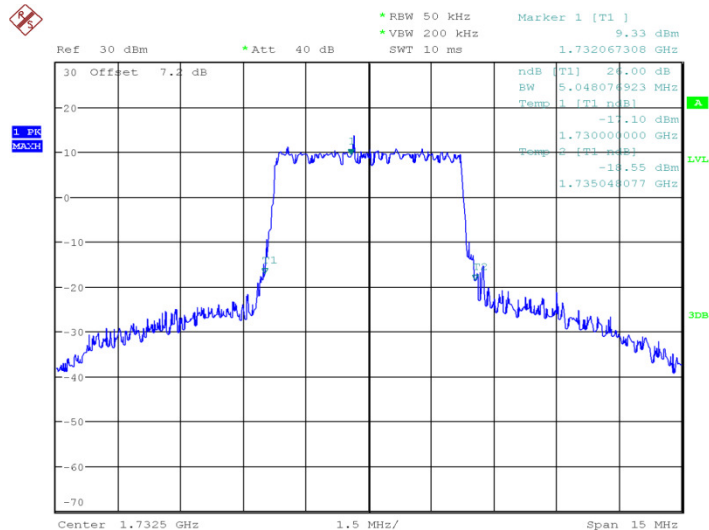
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1732.5	QPSK
	5.024	5.048

LTE band 4, 5MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:09:24

LTE band 4, 5MHz Bandwidth, 16QAM (-26dBc BW)

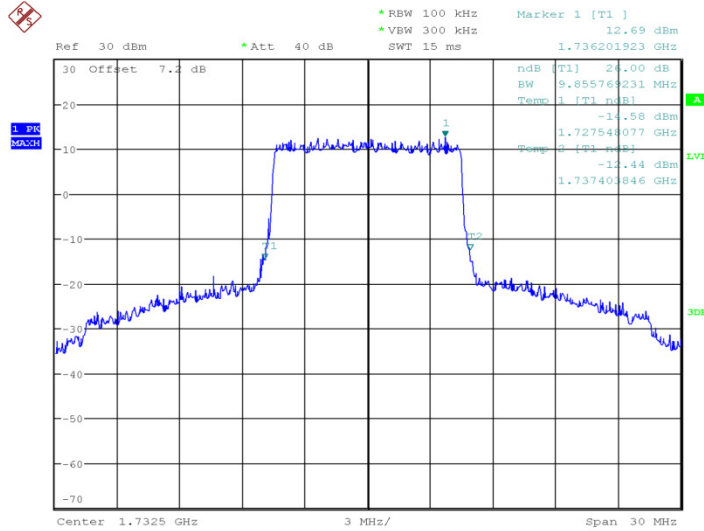


IF Overload
Date: 2.JAN.2003 09:09:37

LTE band 4, 10MHz (-26dBc)

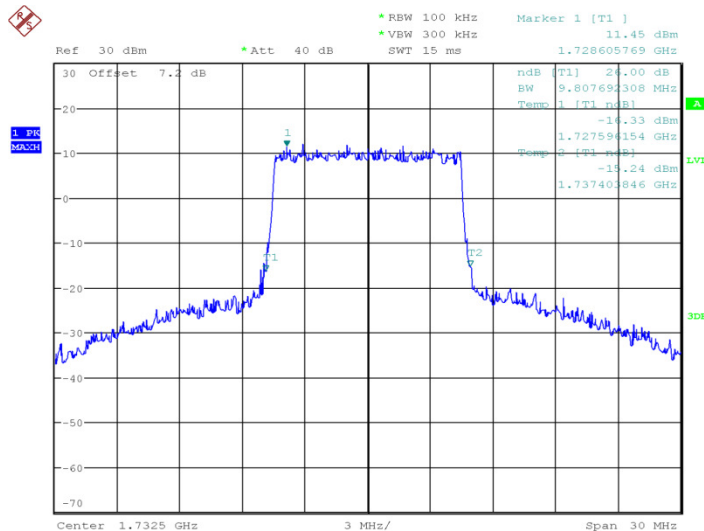
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1732.5	QPSK
9.856		9.808

LTE band 4, 10MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:09:57

LTE band 4, 10MHz Bandwidth, 16QAM (-26dBc BW)

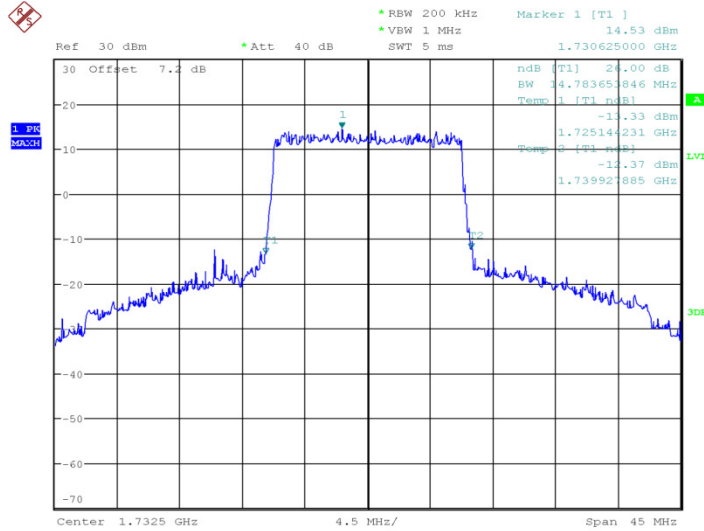


IF Overload
Date: 2.JAN.2003 09:10:10

LTE band 4, 15MHz (-26dBc)

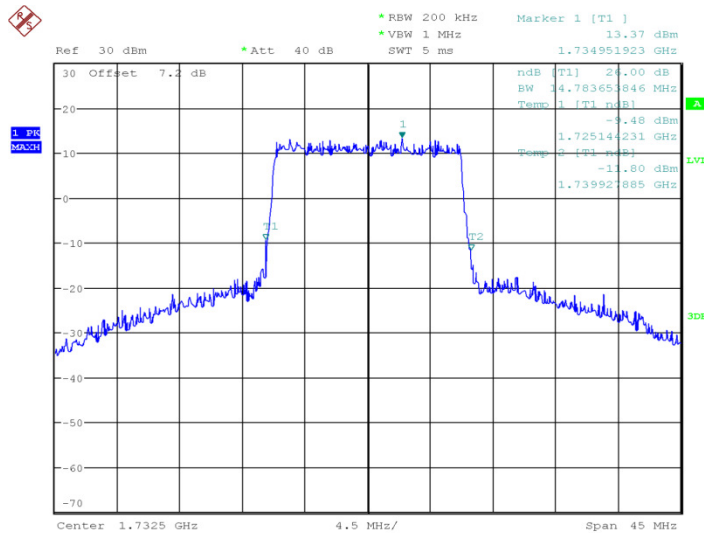
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1732.5	QPSK
	14.784	14.784

LTE band 4, 15MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:10:30

LTE band 4, 15MHz Bandwidth, 16QAM (-26dBc BW)

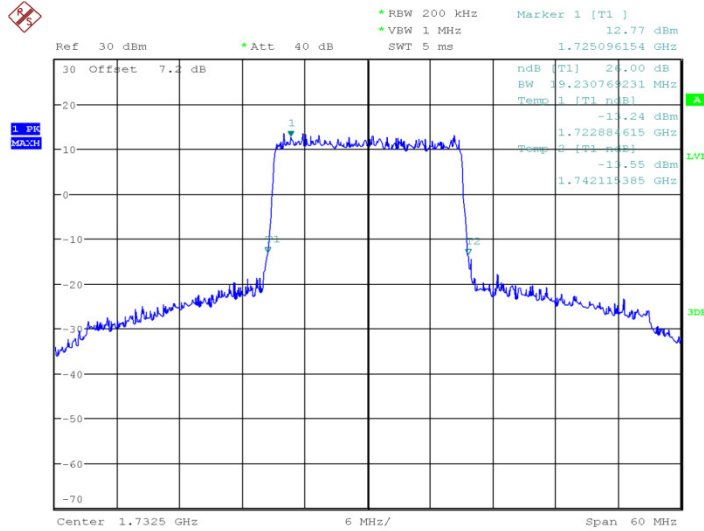


IF Overload
Date: 2.JAN.2003 09:10:42

LTE band 4, 20MHz (-26dBc)

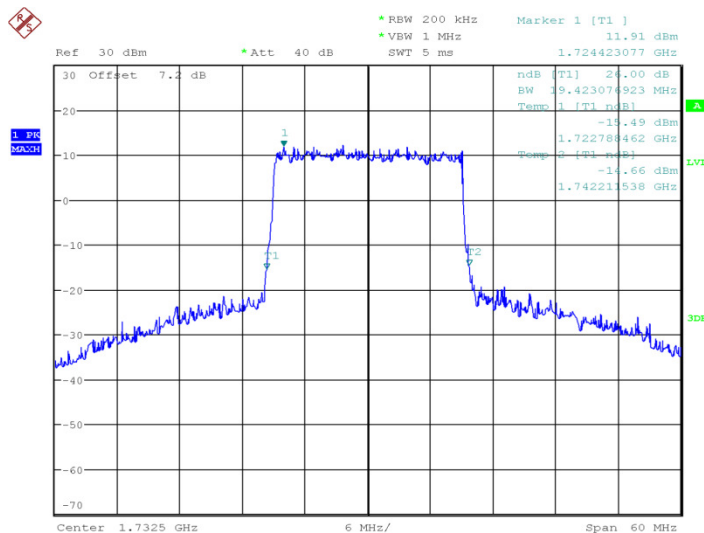
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	1732.5	QPSK
	19.231	19.423

LTE band 4, 20MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:11:04

LTE band 4, 20MHz Bandwidth, 16QAM (-26dBc BW)

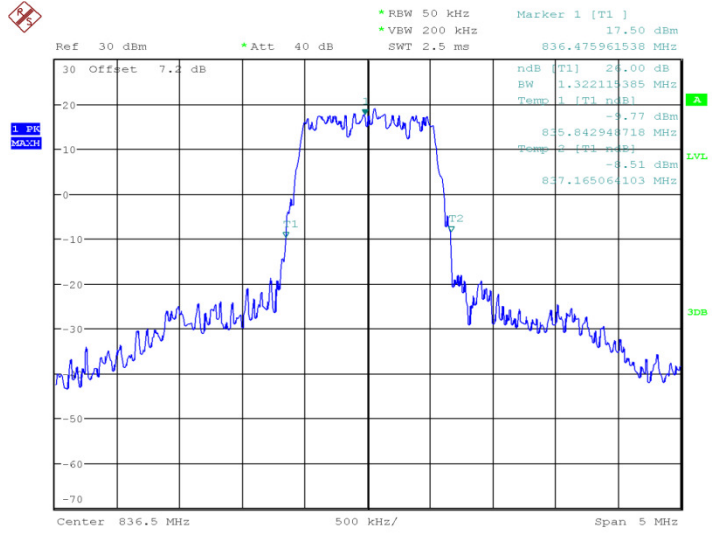


IF Overload
Date: 2.JAN.2003 09:11:17

LTE band 5, 1.4MHz (-26dBc)

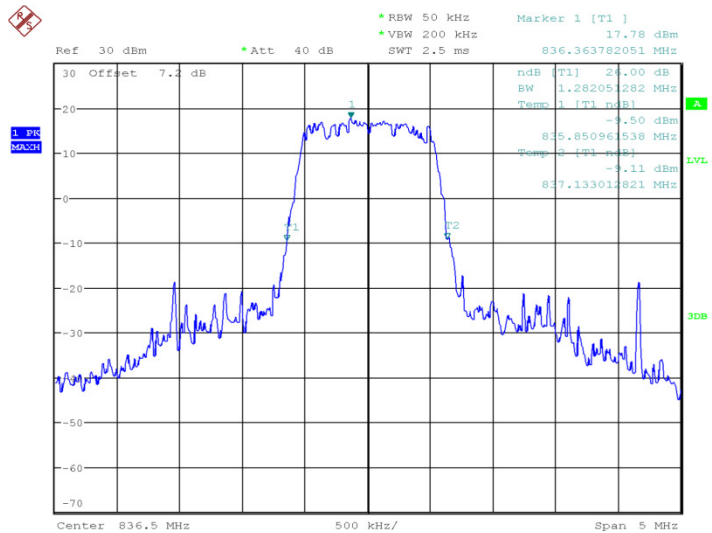
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	1.322	1.282

LTE band 5, 1.4MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:17:36

LTE band 5, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

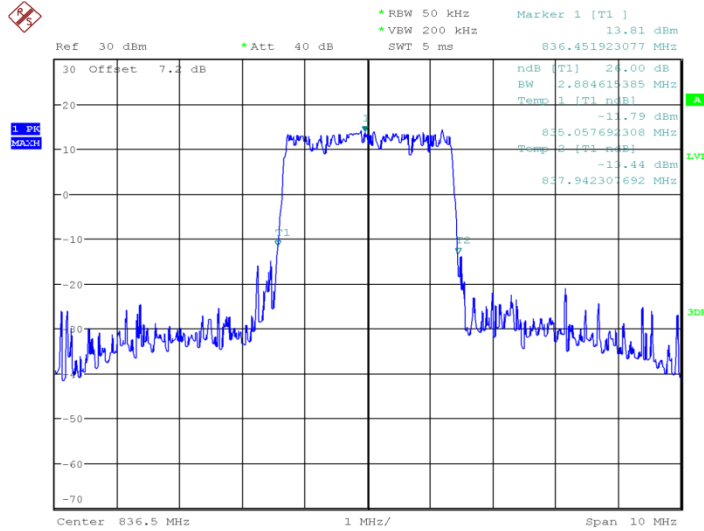


IF Overload
Date: 2.JAN.2003 09:17:50

LTE band 5, 3MHz (-26dBc)

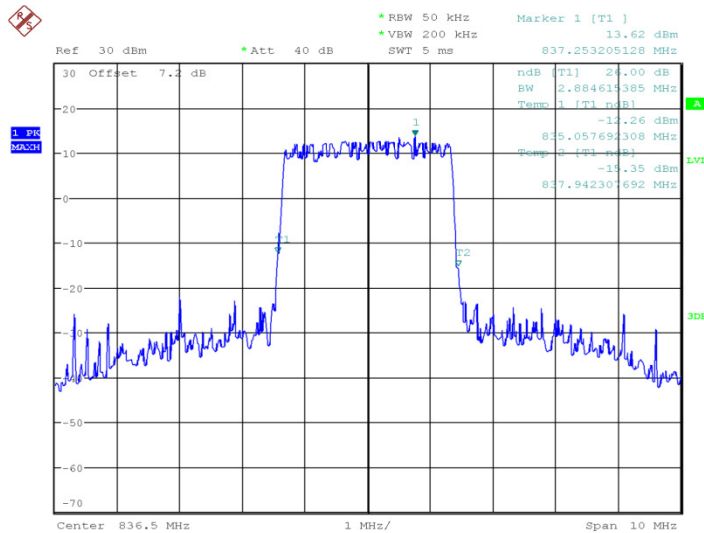
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	836.5	QPSK
2.885		2.885

LTE band 5, 3MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:18:11

LTE band 5, 3MHz Bandwidth, 16QAM (-26dBc BW)

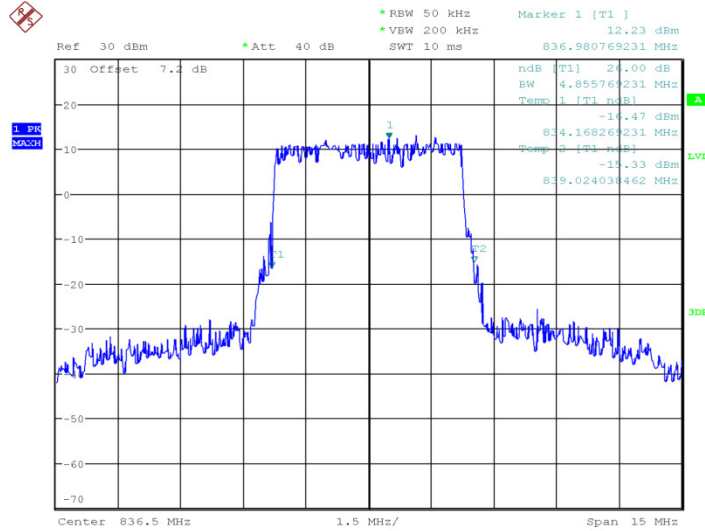


IF Overload
Date: 2.JAN.2003 09:18:24

LTE band 5, 5MHz (-26dBc)

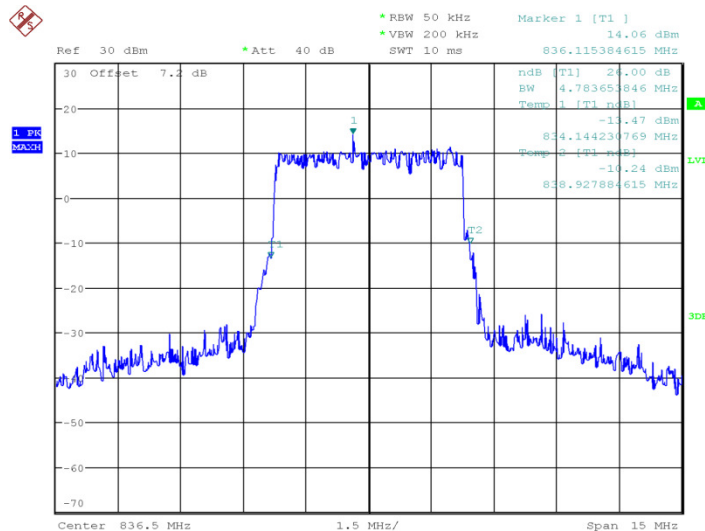
Frequency(MHz)	Occupied Bandwidth (-26dBc)(kHz)	
	836.5	QPSK
4.856		4.784

LTE band 5, 5MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:18:45

LTE band 5, 5MHz Bandwidth, 16QAM (-26dBc BW)

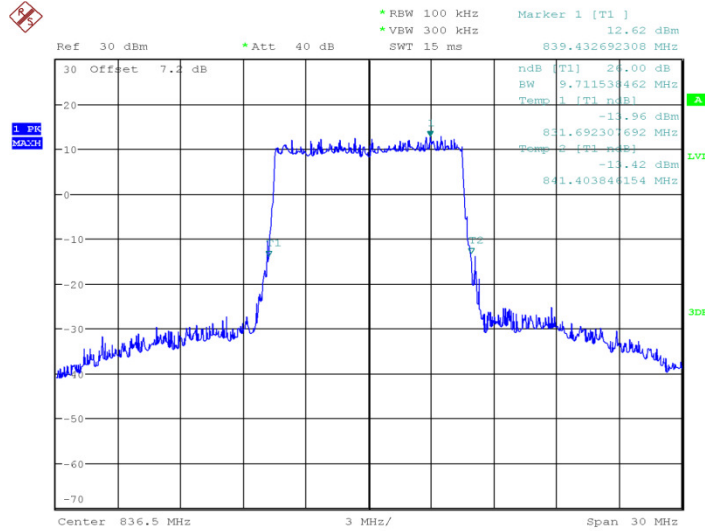


IF Overload
Date: 2.JAN.2003 09:18:59

LTE band 5, 10MHz (-26dBc)

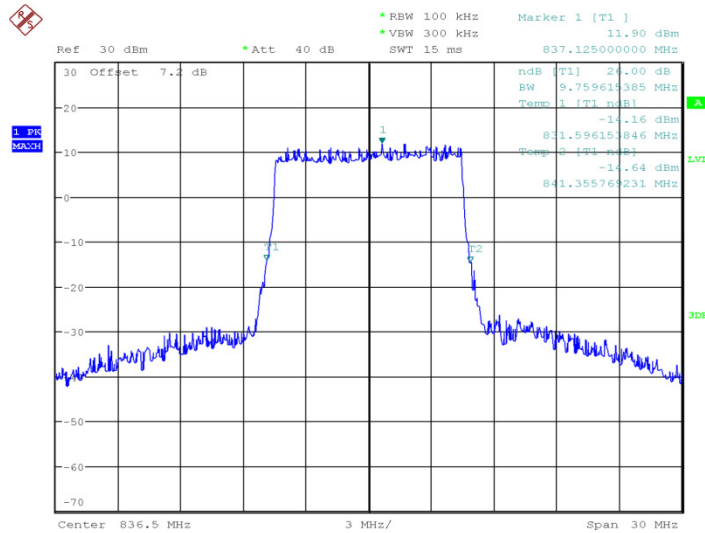
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	836.5	QPSK
9.712		9.760

LTE band 5, 10MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:19:19

LTE band 5, 10MHz Bandwidth, 16QAM (-26dBc BW)

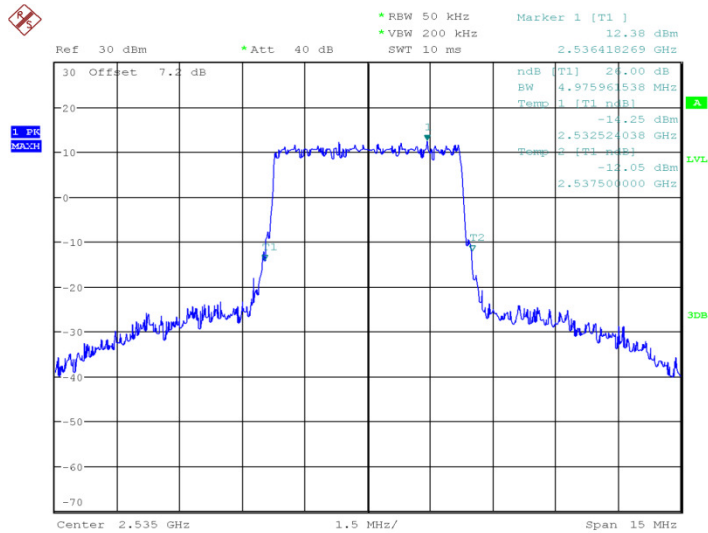


IF Overload
Date: 2.JAN.2003 09:19:31

LTE band 7, 5MHz (-26dBc)

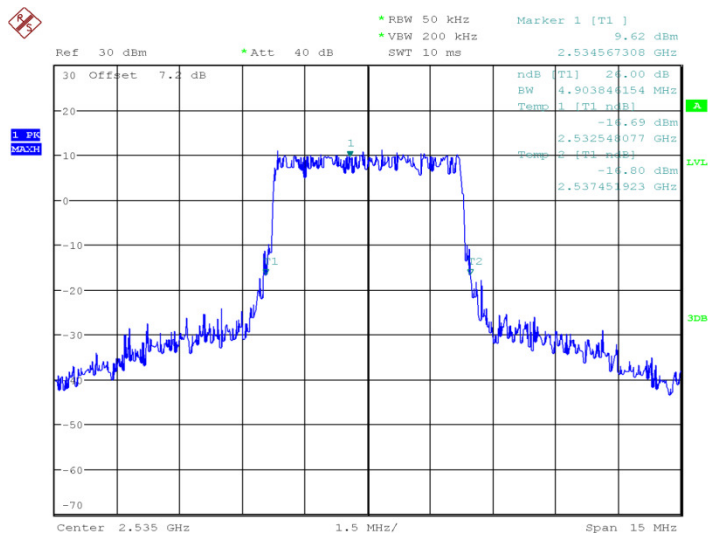
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	2535.0	QPSK
4.976		4.904

LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
 Date: 2.JAN.2003 09:22:35

LTE band 7, 5MHz Bandwidth, 16QAM (-26dBc BW)

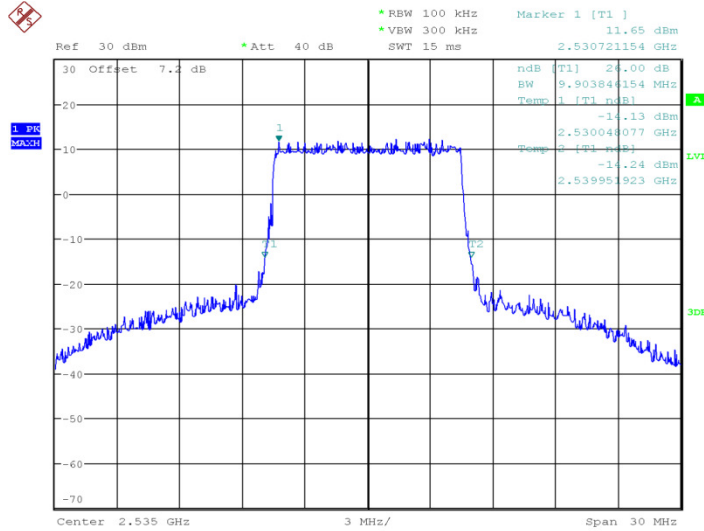


IF Overload
 Date: 2.JAN.2003 09:22:48

LTE band 7, 10MHz (-26dBc)

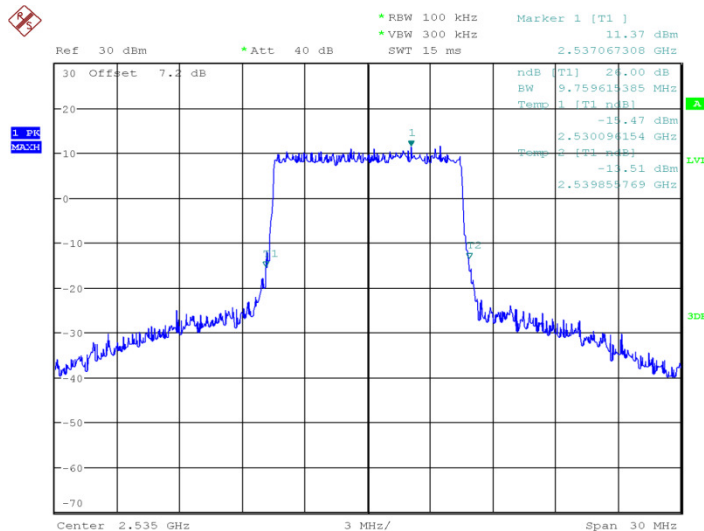
Frequency(MHz)	Occupied Bandwidth (-26dBc)(kHz)	
	2535.0	QPSK
9.904		9.760

LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:23:10

LTE band 7, 10MHz Bandwidth, 16QAM (-26dBc BW)

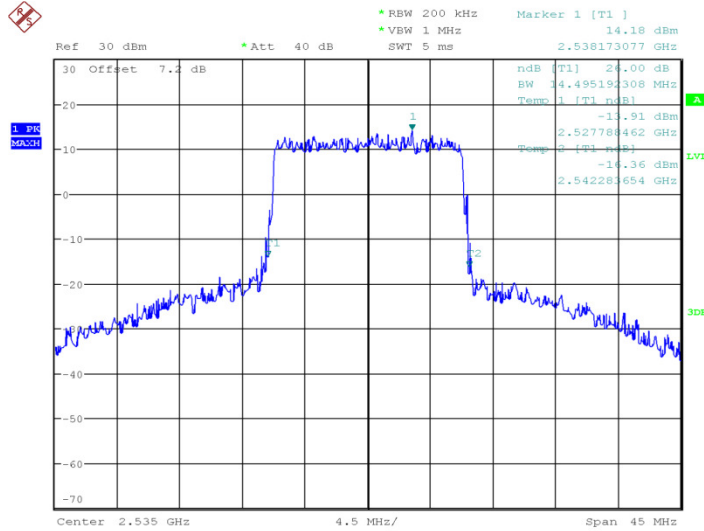


IF Overload
Date: 2.JAN.2003 09:23:22

LTE band 7, 15MHz (-26dBc)

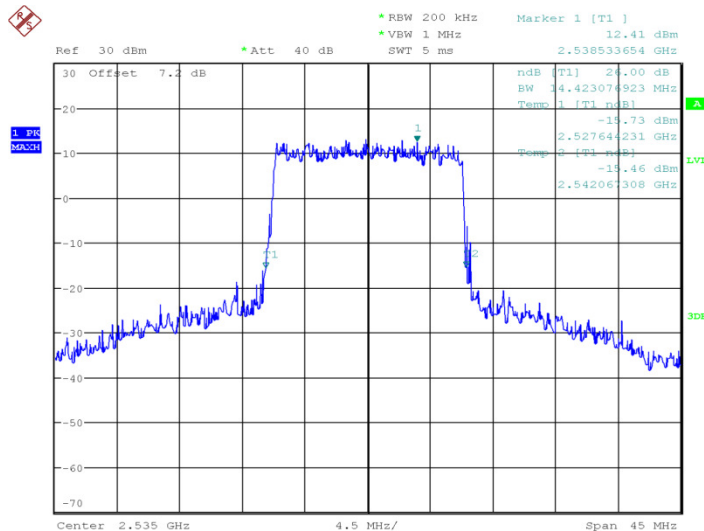
Frequency(MHz)	Occupied Bandwidth (-26dBc)(MHz)	
	2535.0	QPSK
14.495		14.423

LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:23:44

LTE band 7, 15MHz Bandwidth, 16QAM (-26dBc BW)



IF Overload
Date: 2.JAN.2003 09:23:57