

Occupied Bandwidth Measurement Results

Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured Occupied Bandwidth (MHz)	Emission Designator
1880	1.4	18900	6	0	QPSK	1.08	1M08G7D
1880	1.4	18900	6	0	16QAM	1.09	1M09W7D
1880	1.4	18900	6	0	64QAM	1.08	1M08W7D
1880	3	18900	15	0	QPSK	2.67	2M67G7D
1880	3	18900	15	0	16QAM	2.68	2M68W7D
1880	3	18900	15	0	64QAM	2.68	2M68W7D
1880	5	18900	25	0	QPSK	4.48	4M48G7D
1880	5	18900	25	0	16QAM	4.48	4M48W7D
1880	5	18900	25	0	64QAM	4.50	4M50W7D
1880	10	18900	50	0	QPSK	8.94	8M94G7D
1880	10	18900	50	0	16QAM	8.94	8M94W7D
1880	10	18900	50	0	64QAM	8.94	8M94W7D
1880	15	18900	75	0	QPSK	13.36	13M3G7D
1880	15	18900	75	0	16QAM	13.36	13M3W7D
1880	15	18900	75	0	64QAM	13.36	13M3W7D
1880	20	18900	100	0	QPSK	17.80	17M8G7D
1880	20	18900	100	0	16QAM	17.80	17M8W7D
1880	20	18900	100	0	64QAM	17.80	17M8W7D
							Complies

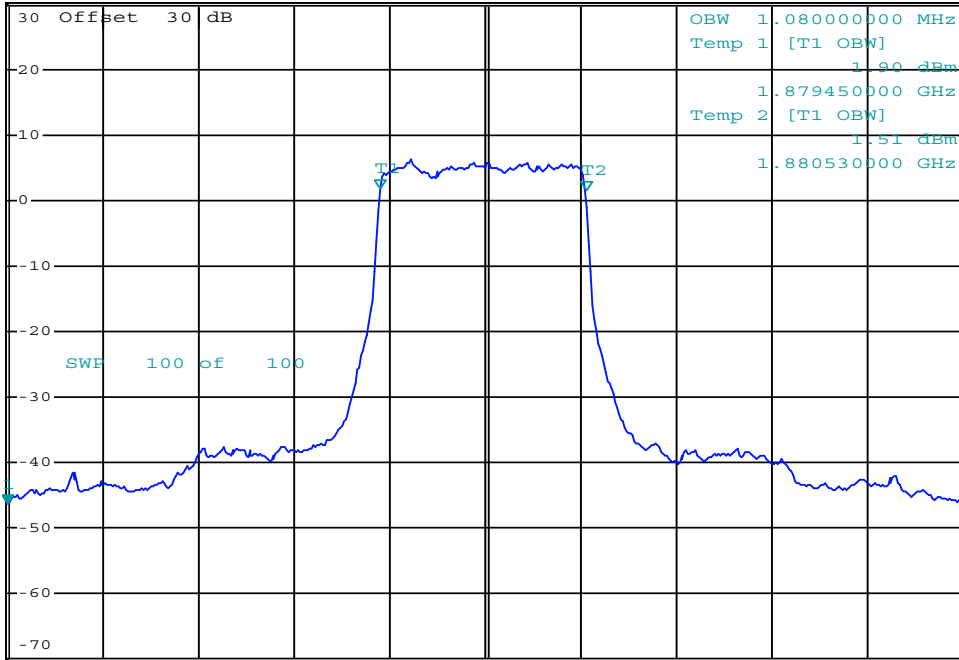
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz -46.28 dBm
 *SWT 50 ms 1.877500000 GHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 1.88 GHz 500 kHz/ Span 5 MHz

SWE 100 of 100

3DB

Date: 21.APR.2021 11:30:23

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	1.4	Occupied Bandwidth (MHz):	1.08
EARFCN:	18900	Resource Blocks (RB):	6		
RB Offset:	0	Modulation:	QPSK		

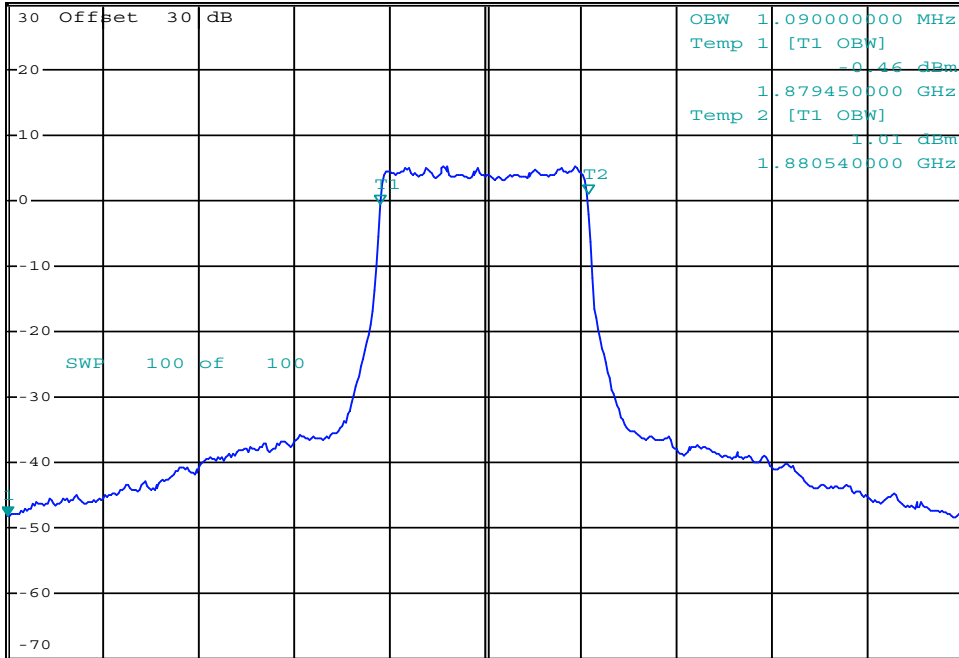
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz -48.11 dBm
 *SWT 50 ms 1.877500000 GHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 1.88 GHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 11:32:36

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	1.4	Occupied Bandwidth (MHz):	1.09
EARFCN:	18900	Resource Blocks (RB):	6		
RB Offset:	0	Modulation:	16QAM		

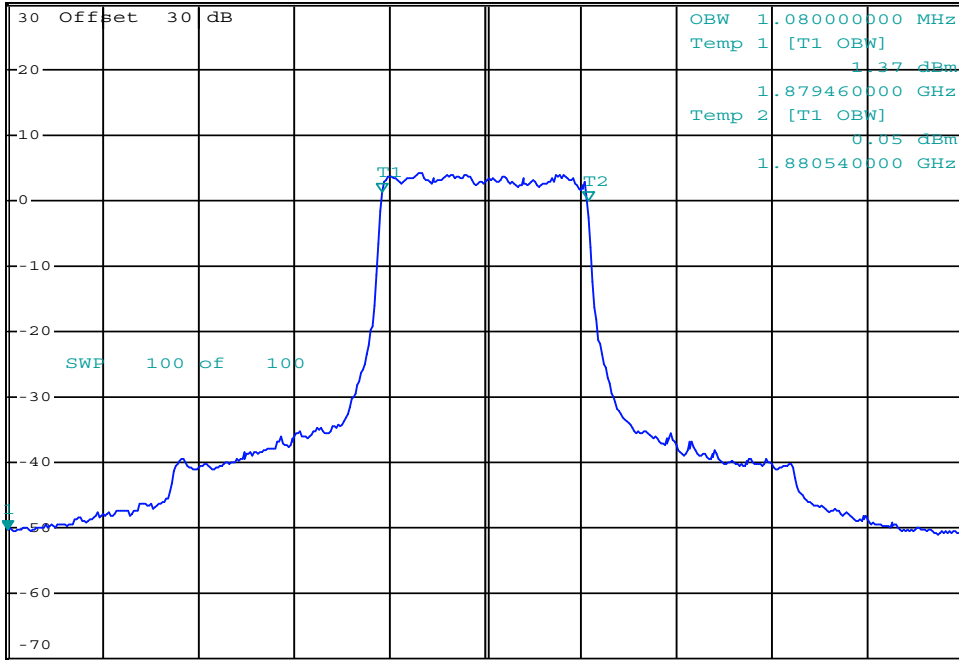
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz -50.23 dBm
 *SWT 50 ms 1.877500000 GHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 1.88 GHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 11:46:11

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	<div style="background-color: #c8e6c9; padding: 5px; display: inline-block;">Occupied Bandwidth (MHz):</div> <div style="background-color: #212121; color: white; padding: 5px; display: inline-block; margin-left: 10px;">1.08</div>
EARFCN: 18900	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 64QAM	

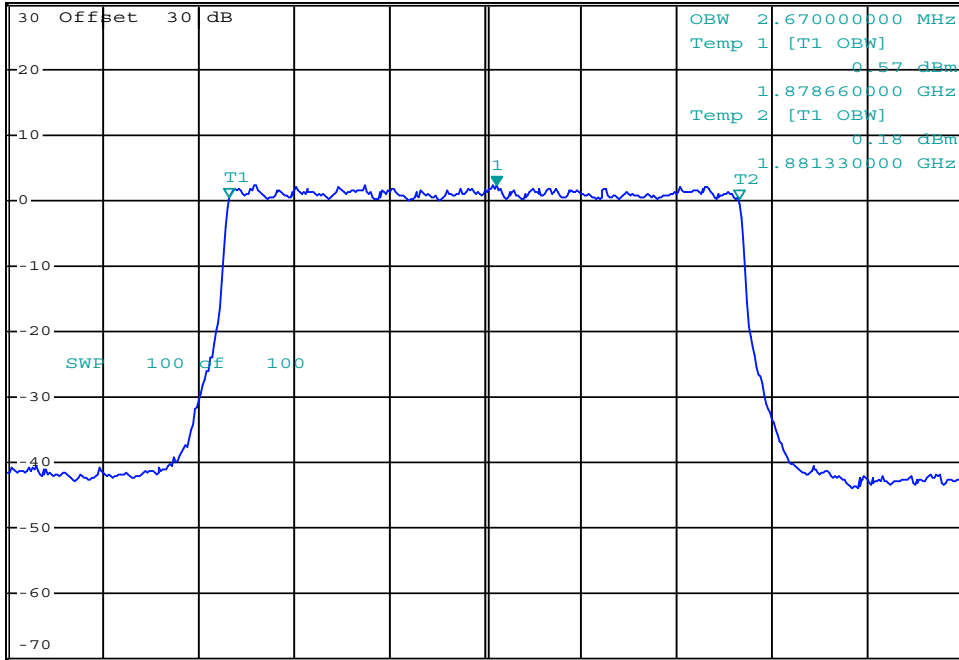
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz 2.30 dBm
 *Att 10 dB 1.880060000 GHz

Ref 30 dBm

1 RM*
 VIEW



Date: 21.APR.2021 12:01:24

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	3.0	Occupied Bandwidth (MHz):	2.67
EARFCN:	18900	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	QPSK		

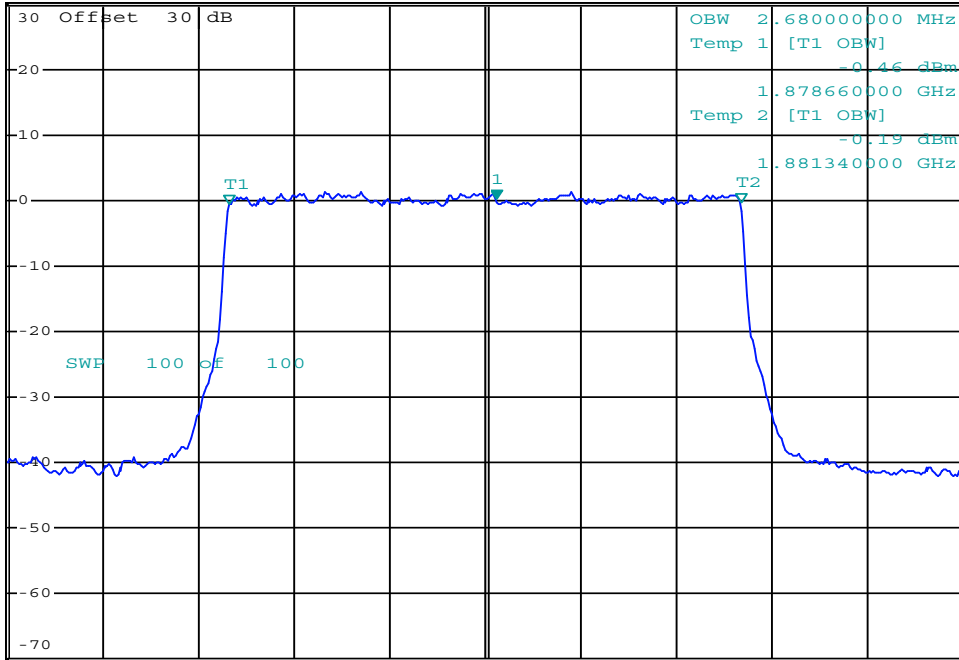
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz 0.10 dBm
 *Att 10 dB 1.880060000 GHz
 *SWT 50 ms

Ref 30 dBm

1 RM*
 VIEW



Center 1.88 GHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 12:02:42

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	3.0	Occupied Bandwidth (MHz):	2.68
EARFCN:	18900	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	16QAM		

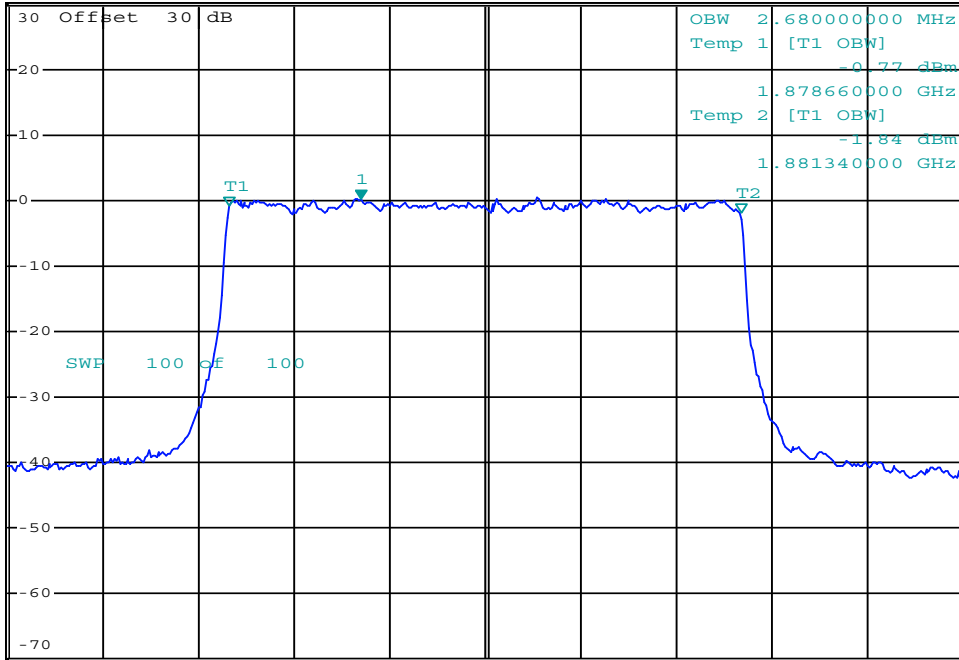
Occupied Bandwidth: LTE Band 2



*RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz 0.24 dBm
 *Att 10 dB 1.879350000 GHz
 *SWT 50 ms

Ref 30 dBm

1 RM
 VIEW



Date: 21.APR.2021 12:04:50

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	3.0	Occupied Bandwidth (MHz):	2.68
EARFCN:	18900	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	64QAM		

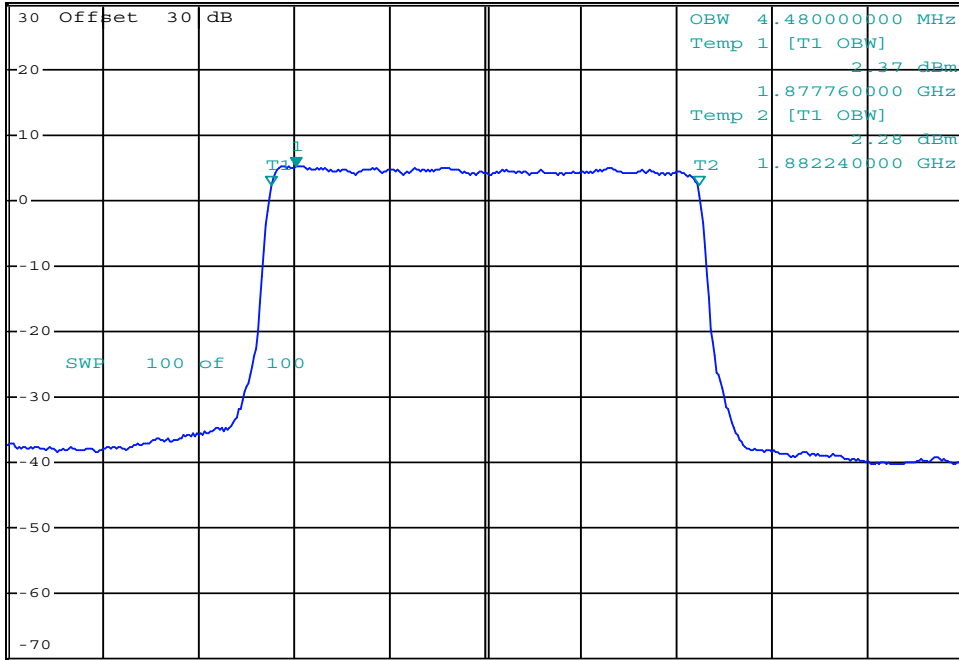
Occupied Bandwidth: LTE Band 2



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 5.20 dBm
 *Att 10 dB 1.878020000 GHz
 *SWT 50 ms

Ref 30 dBm

1 RM*
 VIEW



Center 1.88 GHz 1 MHz/ Span 10 MHz

Date: 21.APR.2021 12:43:33

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	5.0	Occupied Bandwidth (MHz):	4.48
EARFCN:	18900	Resource Blocks (RB):	25		
RB Offset:	0	Modulation:	QPSK		

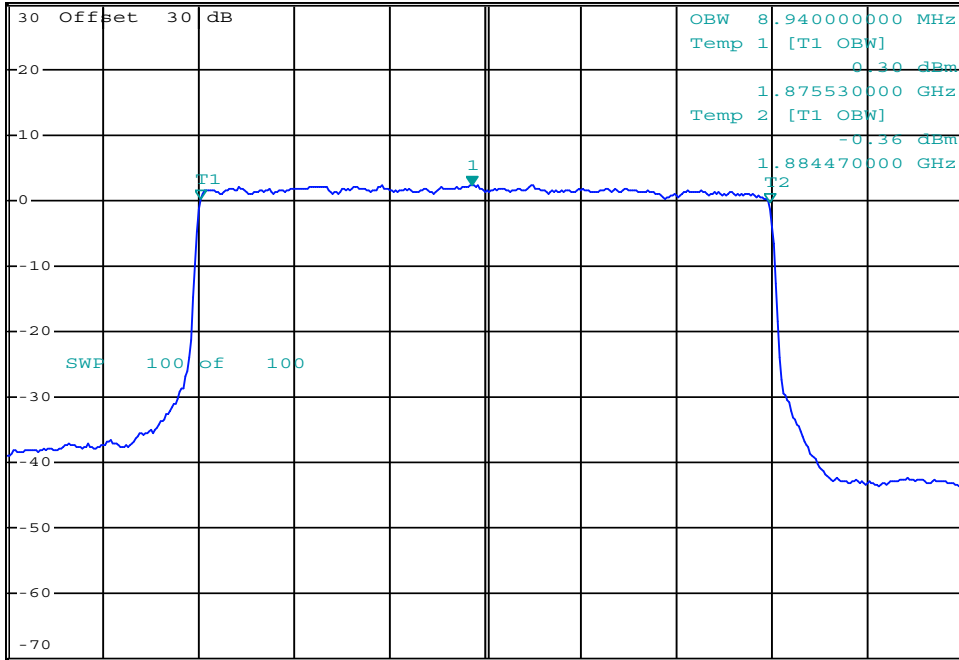
Occupied Bandwidth: LTE Band 2



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 2.44 dBm
 *Att 10 dB 1.879790000 GHz

Ref 30 dBm

1 RM*
 VIEW



Center 1.88 GHz 1.5 MHz/ Span 15 MHz

Date: 21.APR.2021 12:47:59

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 10.0	Occupied Bandwidth (MHz): 8.94
EARFCN: 18900	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: QPSK	

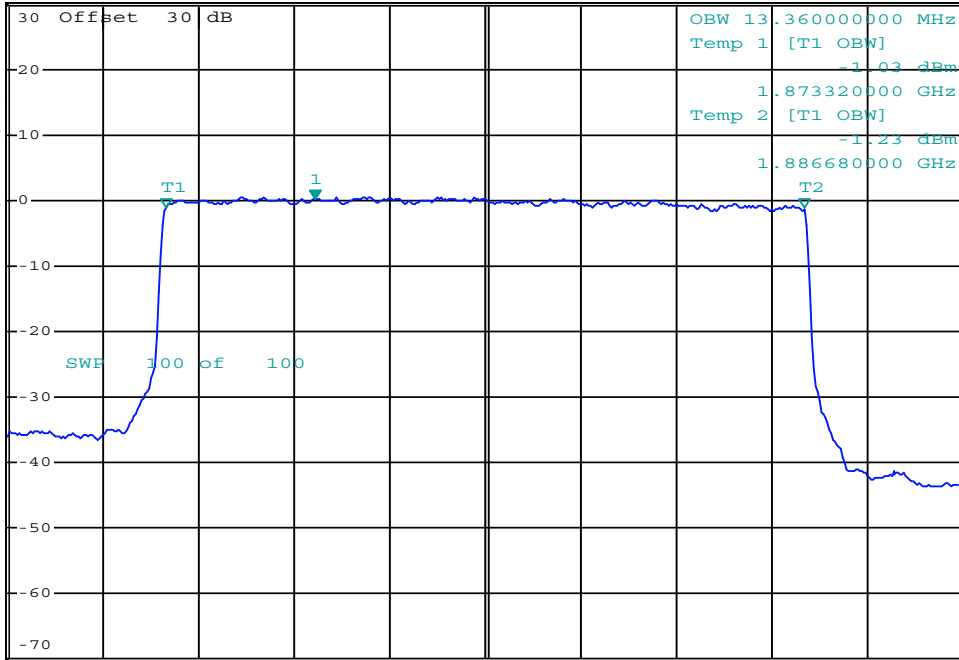
Occupied Bandwidth: LTE Band 2



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 0.28 dBm
 *SWT 50 ms 1.876440000 GHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 1.88 GHz 2 MHz/ Span 20 MHz

Date: 21.APR.2021 12:56:55

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	15.0	Occupied Bandwidth (MHz):	13.36
EARFCN:	18900	Resource Blocks (RB):	75		
RB Offset:	0	Modulation:	QPSK		

Occupied Bandwidth Measurement Results

Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured Occupied Bandwidth (MHz)	Emission Designator
836.5	1.4	20525	6	0	QPSK	1.15	1M15G7D
836.5	1.4	20525	6	0	16QAM	1.15	1M15W7D
836.5	1.4	20525	6	0	64QAM	1.14	1M14W7D
836.5	3	20525	15	0	QPSK	2.73	2M73G7D
836.5	3	20525	15	0	16QAM	2.72	2M72W7D
836.5	3	20525	15	0	64QAM	2.72	2M72W7D
836.5	5	20525	25	0	QPSK	4.48	4M48G7D
836.5	5	20525	25	0	16QAM	4.50	4M50W7D
836.5	5	20525	25	0	64QAM	4.50	4M50W7D
836.5	10	20525	50	0	QPSK	8.94	8M94G7D
836.5	10	20525	50	0	16QAM	8.94	8M94W7D
836.5	10	20525	50	0	64QAM	8.94	8M94W7D
							Complies

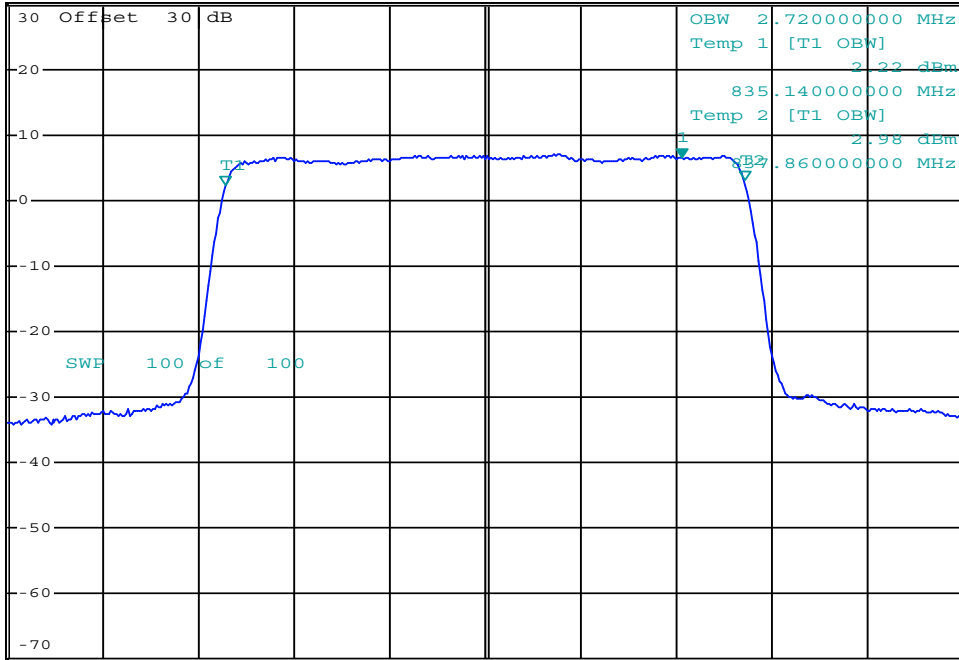
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
VBW 1 MHz 6.39 dBm
*SWT 50 ms 837.530000000 MHz

Ref 30 dBm *Att 10 dB

1 RM*
VIEW



Center 836.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 13:46:55

Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	3.0	Occupied Bandwidth (MHz):	2.72
EARFCN:	20525	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	16QAM		

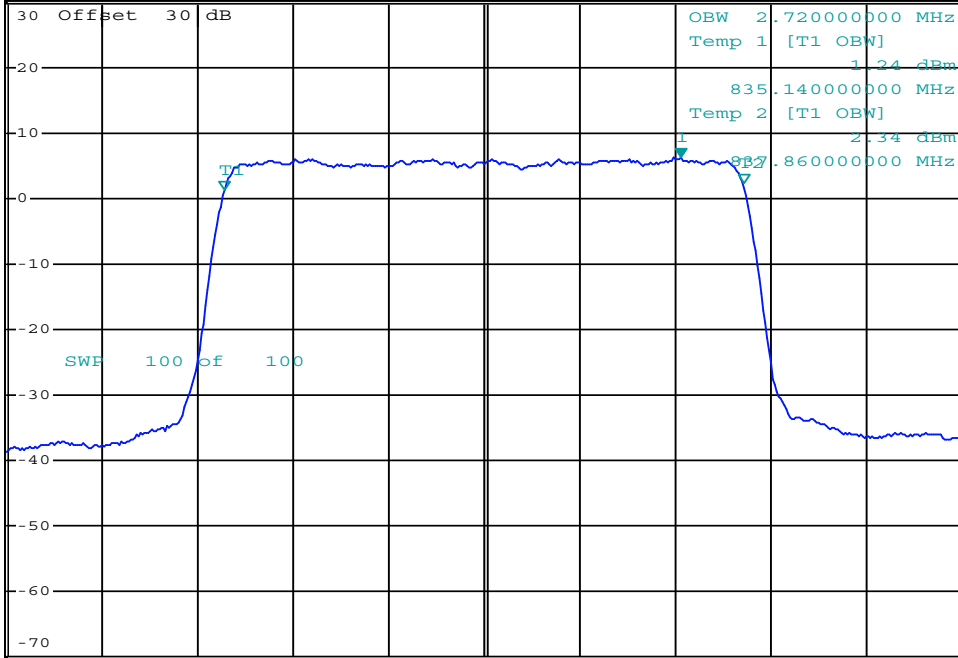
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 6.16 dBm
 *Att 10 dB
 *SWT 50 ms 837.530000000 MHz

Ref 30 dBm

1 RM*
VIEW



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Center 836.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 13:45:46

Channel Frequency (MHz): **836.5**

Channel Bandwidth (MHz): **3.0**

EARFCN: **20525**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **64QAM**

Occupied Bandwidth (MHz): **2.72**

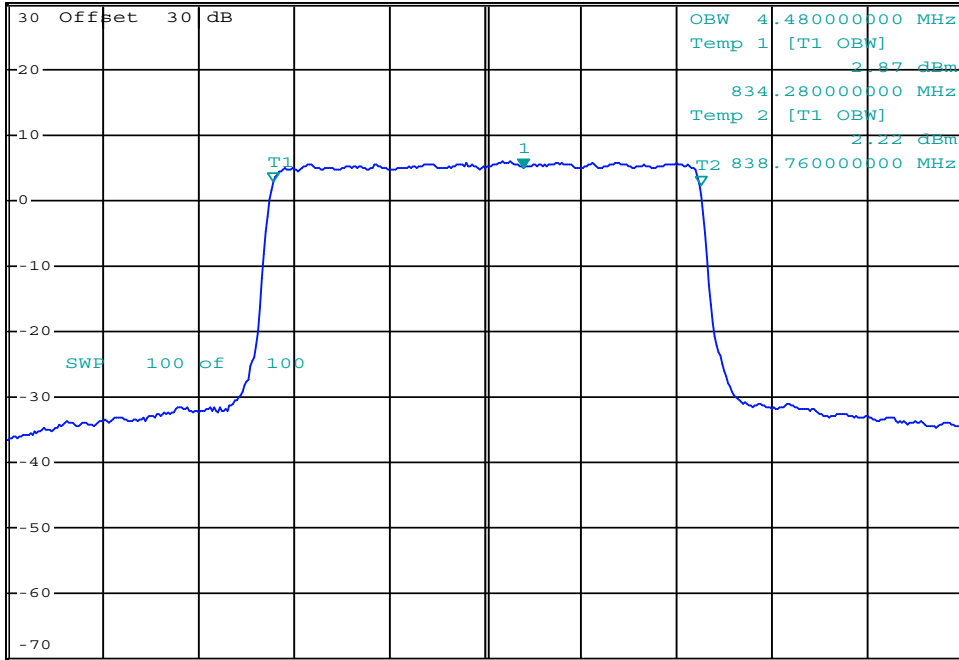
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 4.88 dBm
 *SWT 50 ms 836.890000000 MHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 836.5 MHz 1 MHz/ Span 10 MHz

Date: 21.APR.2021 13:51:34

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 5.0	Occupied Bandwidth (MHz): 4.48
EARFCN: 20525	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: QPSK	

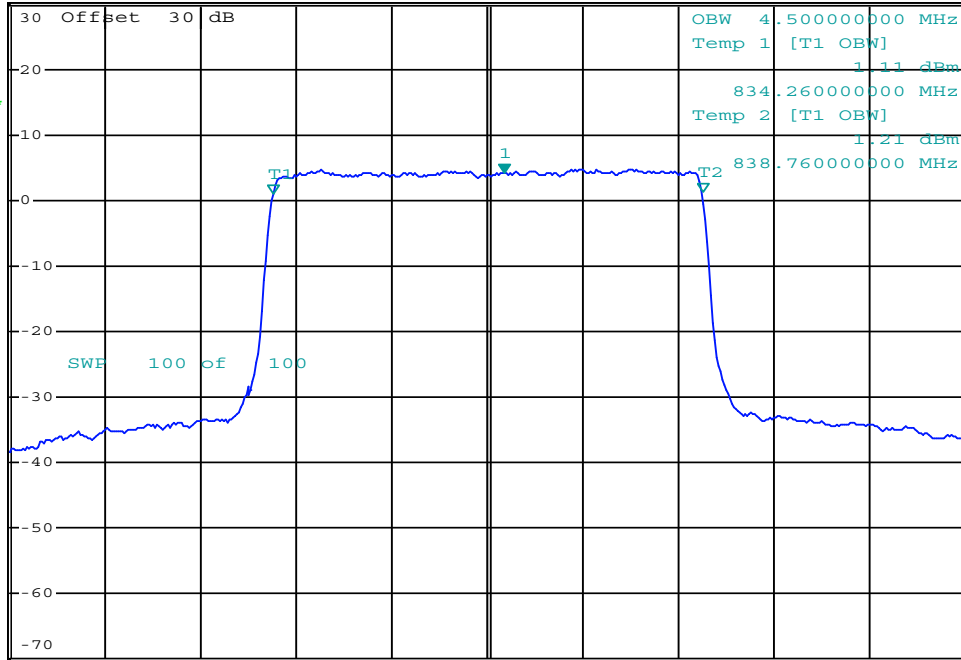
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 4.16 dBm
 *Att 10 dB 836.680000000 MHz
 *SWT 50 ms

Ref 30 dBm

1 RM*
 VIEW



Center 836.5 MHz 1 MHz/ Span 10 MHz

Date: 21.APR.2021 13:53:44

Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	5.0	Occupied Bandwidth (MHz):	4.5
EARFCN:	20525	Resource Blocks (RB):	25		
RB Offset:	0	Modulation:	16QAM		

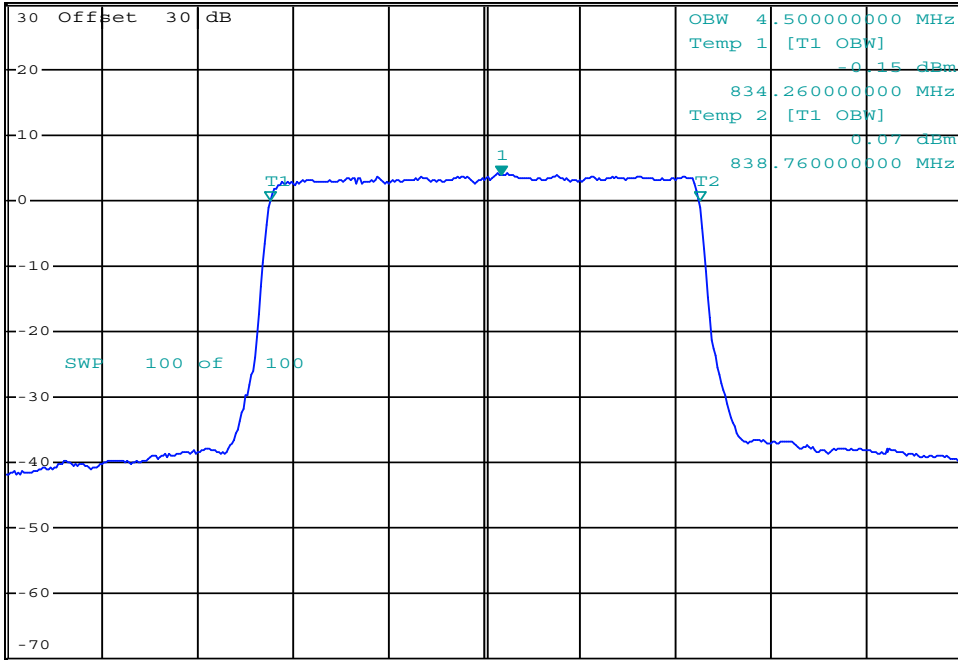
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 3.80 dBm
 *Att 10 dB 836.680000000 MHz
 *SWT 50 ms

Ref 30 dBm

1 RM*
 VIEW



Center 836.5 MHz 1 MHz/ Span 10 MHz

Date: 21.APR.2021 13:54:43

Channel Frequency (MHz): **836.5**

Channel Bandwidth (MHz): **5.0**

EARFCN: **20525**

Resource Blocks (RB): **25**

RB Offset: **0**

Modulation: **64QAM**

Occupied Bandwidth (MHz): **4.5**

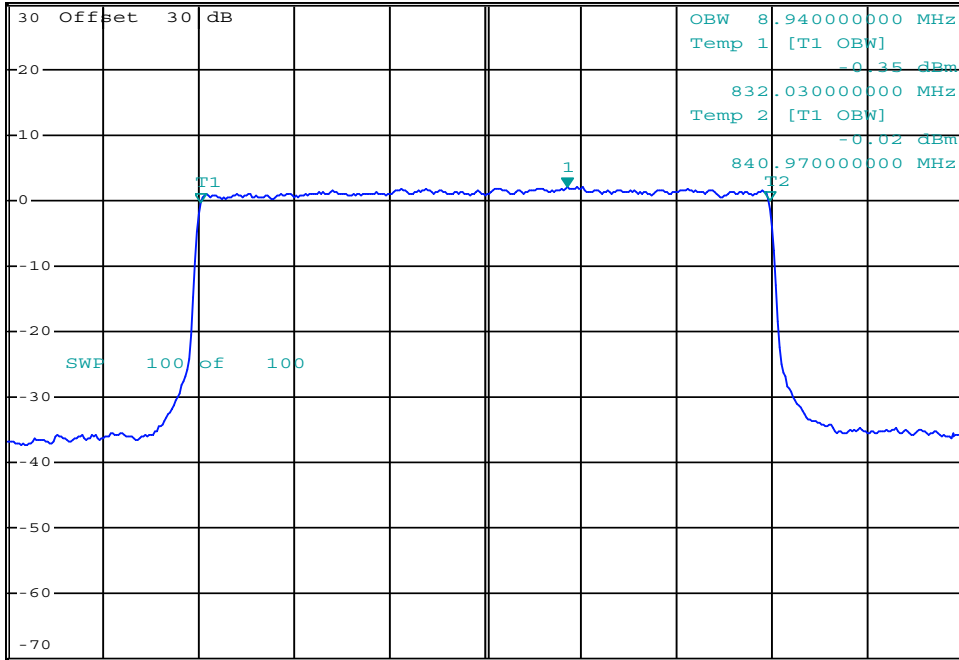
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 2.00 dBm
 *Att 10 dB
 *SWT 50 ms 837.79000000 MHz

Ref 30 dBm

1 RM*
 VIEW



Center 836.5 MHz 1.5 MHz/ Span 15 MHz

Date: 21.APR.2021 13:59:21

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 10.0	Occupied Bandwidth (MHz): 8.94
EARFCN: 20525	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 16QAM	

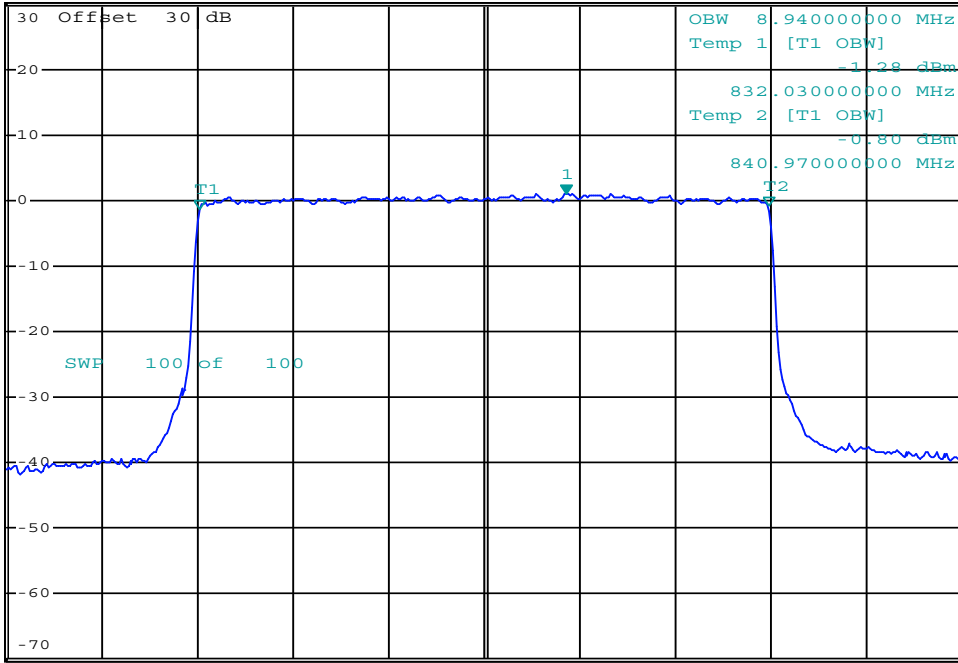
Occupied Bandwidth: LTE Band 5



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 1.06 dBm
 *Att 10 dB
 *SWT 50 ms 837.79000000 MHz

Ref 30 dBm

1 RM*
 VIEW



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 3DB

Date: 21.APR.2021 13:58:18

Channel Frequency (MHz): **836.5**

Channel Bandwidth (MHz): **10.0**

EARFCN: **20525**

Resource Blocks (RB): **50**

RB Offset: **0**

Modulation: **64QAM**

Occupied Bandwidth (MHz): **8.94**

Occupied Bandwidth Measurement Results							
Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured Occupied Bandwidth (MHz)	Emission Designator
707.5	1.4	23095	6	0	QPSK	1.15	1M15G7D
707.5	1.4	23095	6	0	16QAM	1.15	1M15W7D
707.5	1.4	23095	6	0	64QAM	1.16	1M16W7D
707.5	3	23095	15	0	QPSK	2.72	2M72G7D
707.5	3	23095	15	0	16QAM	2.72	2M72W7D
707.5	3	23095	15	0	64QAM	2.72	2M72W7D
707.5	5	23095	25	0	QPSK	4.50	4M50G7D
707.5	5	23095	25	0	16QAM	4.50	4M50W7D
707.5	5	23095	25	0	64QAM	4.48	4M48W7D
707.5	10	23095	50	0	QPSK	8.94	8M94G7D
707.5	10	23095	50	0	16QAM	8.91	8M91W7D
707.5	10	23095	50	0	64QAM	8.94	8M94W7D
							Complies

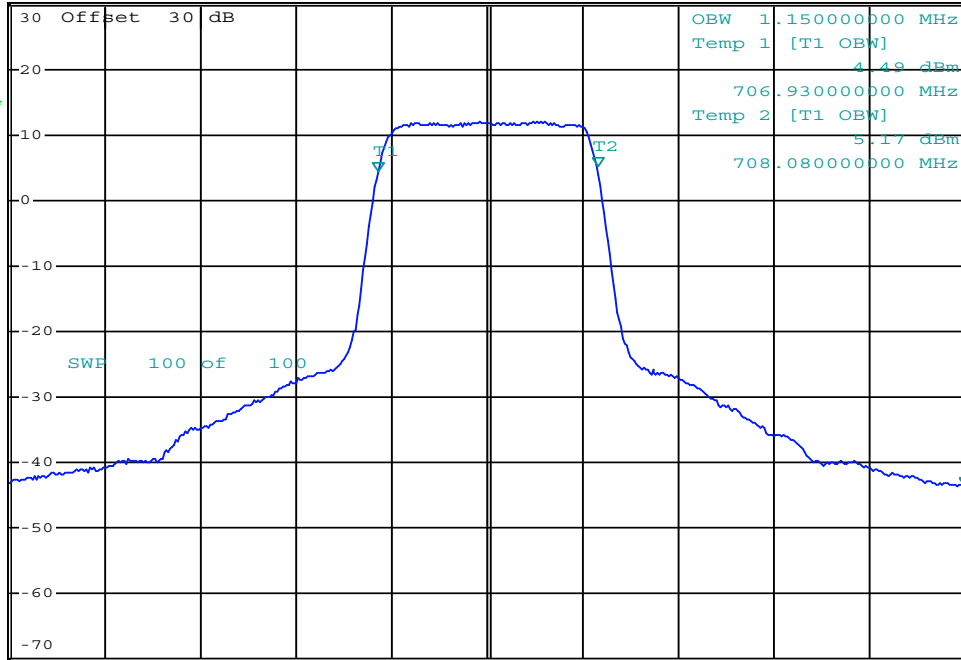
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
VBW 1 MHz -43.62 dBm
*SWT 50 ms 710.000000000 MHz

Ref 30 dBm *Att 10 dB

1 RM*
VIEW



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3DB

Date: 21.APR.2021 14:06:01

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	Occupied Bandwidth (MHz): 1.15
EARFCN: 23095	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: QPSK	

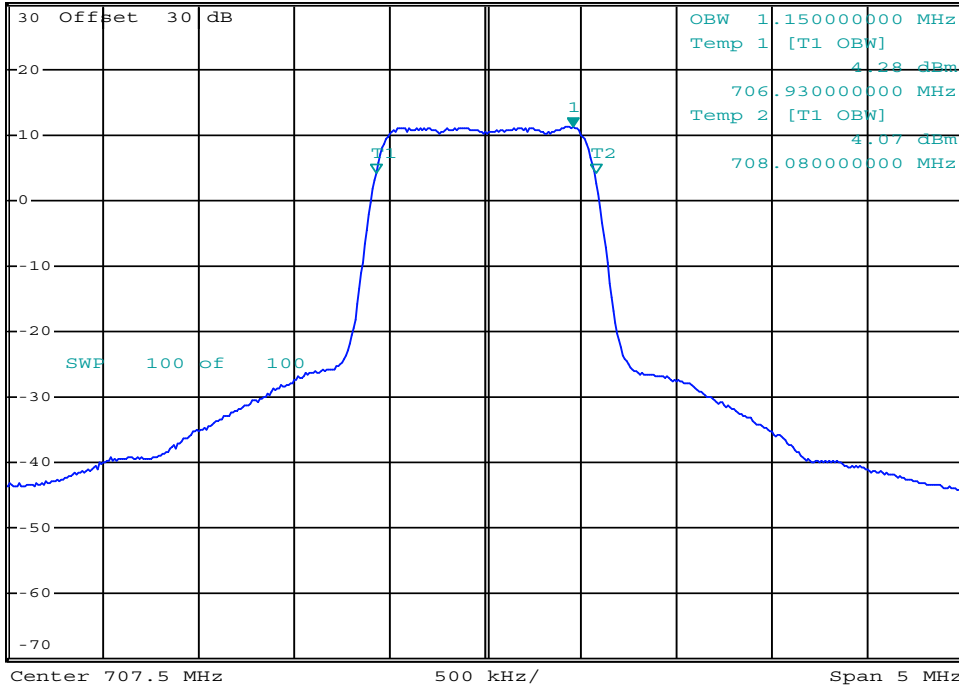
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 11.33 dBm
 *Att 10 dB 707.960000000 MHz

Ref 30 dBm

1 RM*
 VIEW



Date: 21.APR.2021 14:07:57

Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	1.4	Occupied Bandwidth (MHz):	1.15
EARFCN:	23095	Resource Blocks (RB):	6		
RB Offset:	0	Modulation:	16QAM		

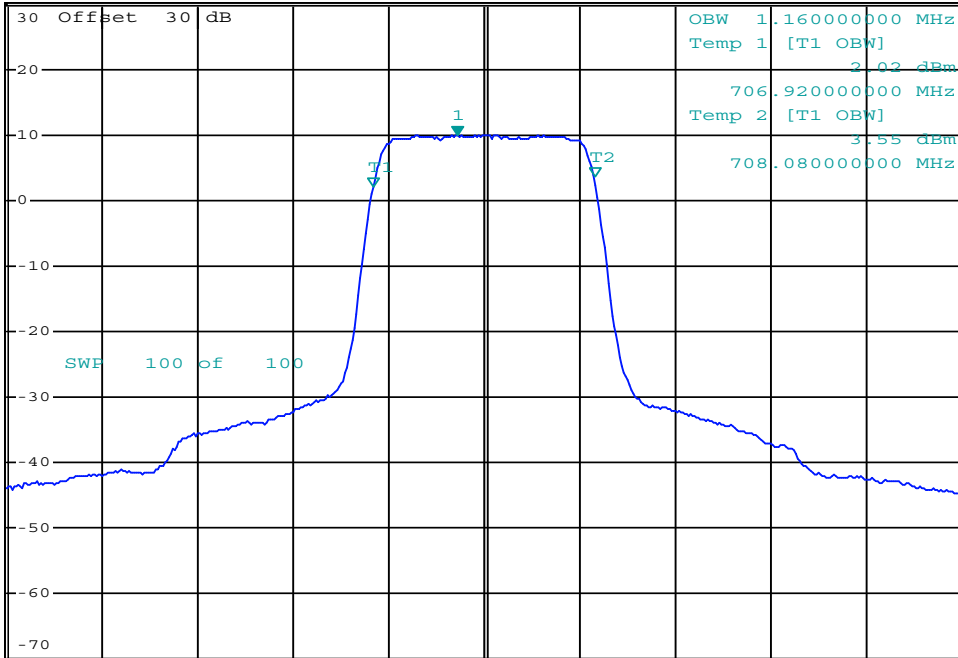
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 9.96 dBm
 *SWT 50 ms 707.360000000 MHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 707.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 14:11:22

Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	1.4	Occupied Bandwidth (MHz):	1.16
EARFCN:	23095	Resource Blocks (RB):	6		
RB Offset:	0	Modulation:	64QAM		

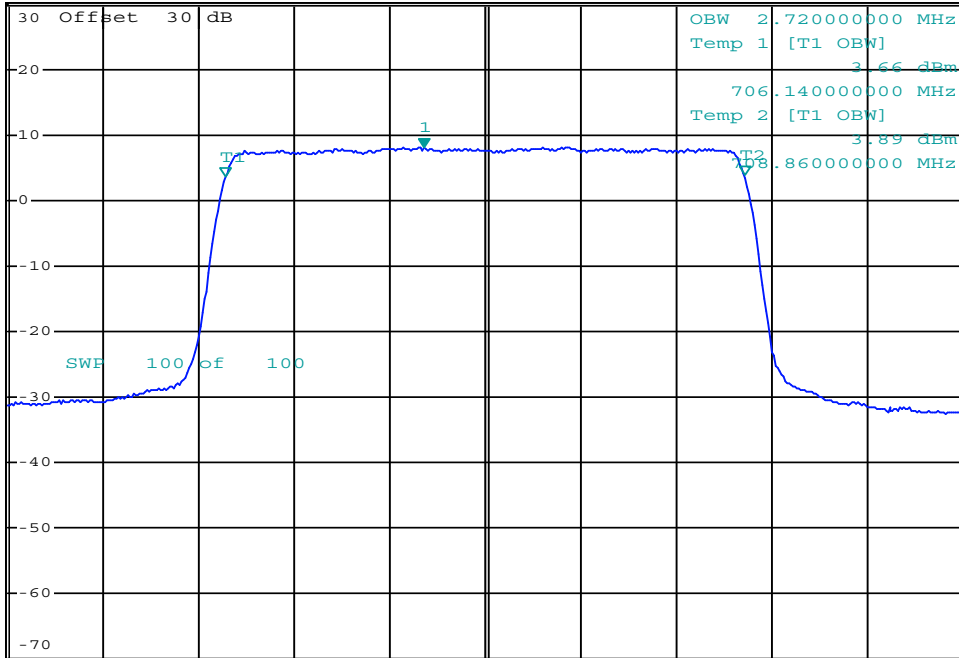
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 8.07 dBm
 *SWT 50 ms 707.180000000 MHz

Ref 30 dBm *Att 10 dB

1 RM
 VIEW



Center 707.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 14:16:37

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 3.0	Occupied Bandwidth (MHz): 2.72
EARFCN: 23095	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: QPSK	

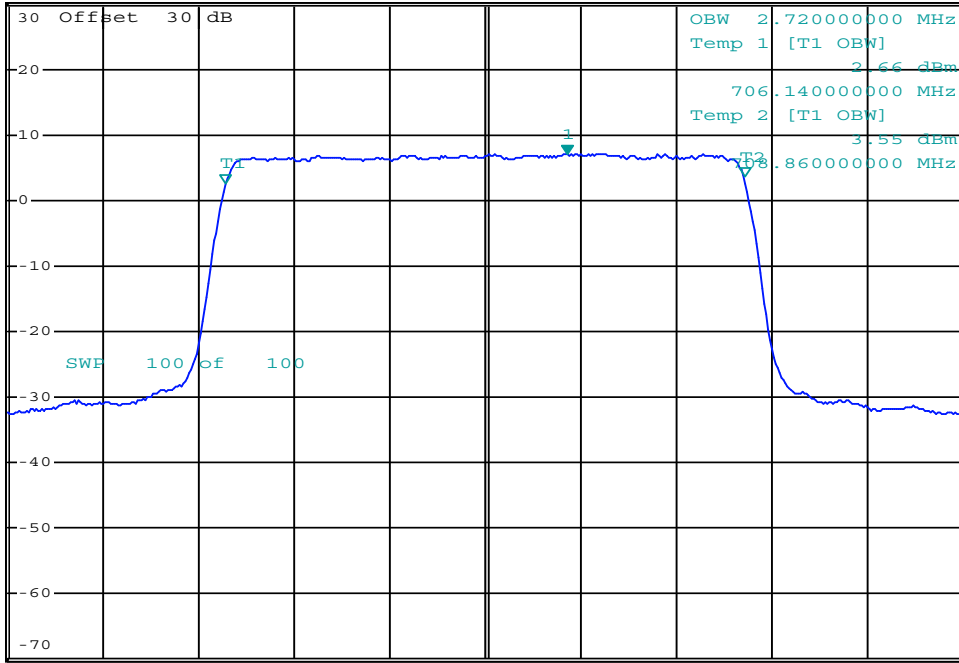
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 7.06 dBm
 *Att 10 dB
 *SWT 50 ms 707.930000000 MHz

Ref 30 dBm

1 RM*
 VIEW



Center 707.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 14:14:34

Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	3.0	Occupied Bandwidth (MHz):	2.72
EARFCN:	23095	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	16QAM		

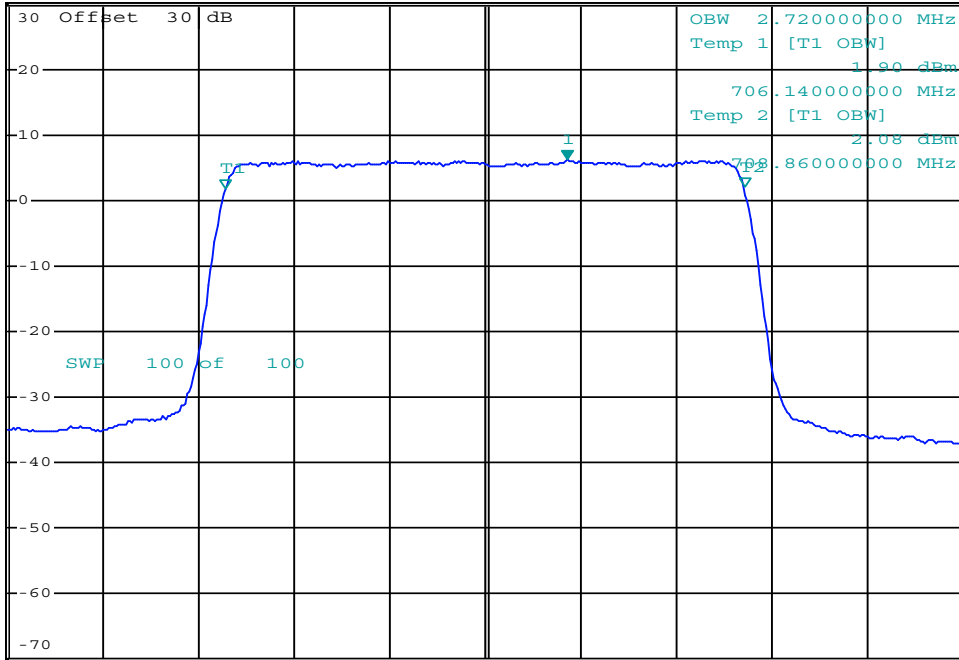
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 6.22 dBm
 *Att 10 dB
 *SWT 50 ms 707.930000000 MHz

Ref 30 dBm

1 RM*
 VIEW



Center 707.5 MHz 500 kHz/ Span 5 MHz

Date: 21.APR.2021 14:13:38

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 3.0	Occupied Bandwidth (MHz): 2.72
EARFCN: 23095	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 64QAM	

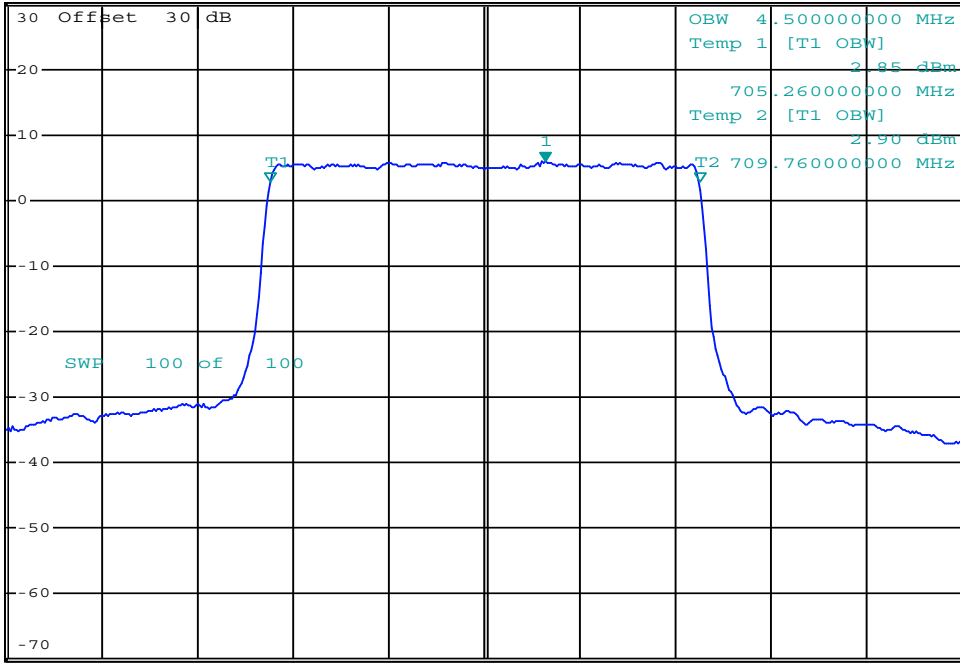
Occupied Bandwidth: LTE Band 12



Ref 30 dBm *Att 10 dB *RBW 100 kHz VBW 1 MHz *SWT 50 ms

Marker 1 [T1]
5.90 dBm
708.140000000 MHz

1 RM*
VIEW



Date: 21.APR.2021 14:18:29

Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	5.0	Occupied Bandwidth (MHz): 4.5
EARFCN:	23095	Resource Blocks (RB):	25	
RB Offset:	0	Modulation:	QPSK	

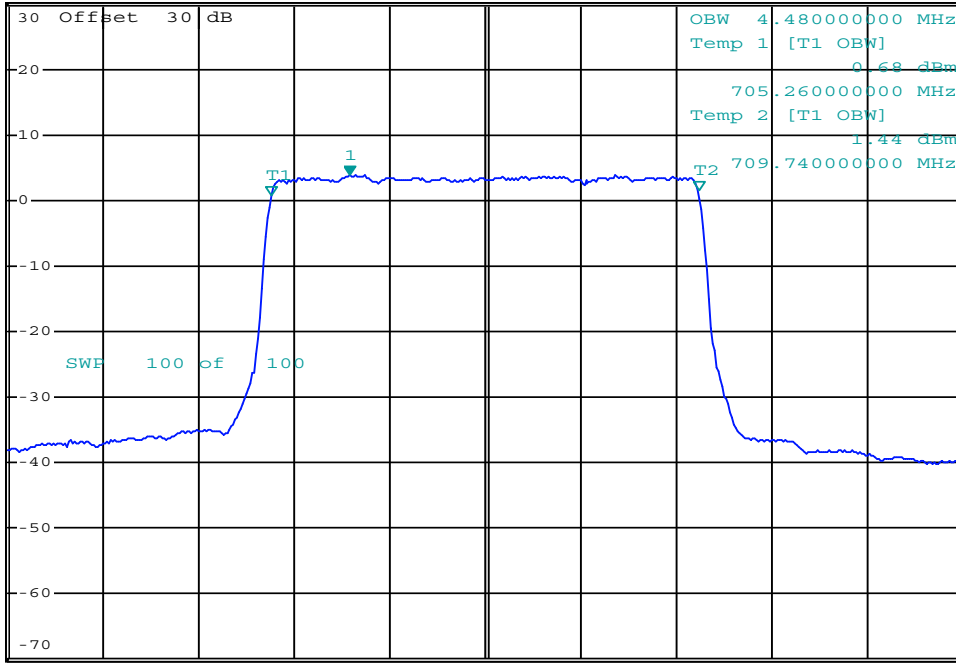
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 3.86 dBm
 *Att 10 dB
 *SWT 50 ms 706.08000000 MHz

Ref 30 dBm

1 RM*
 VIEW



Date: 21.APR.2021 14:23:35

Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	5.0	Occupied Bandwidth (MHz):	4.48
EARFCN:	23095	Resource Blocks (RB):	25		
RB Offset:	0	Modulation:	64QAM		

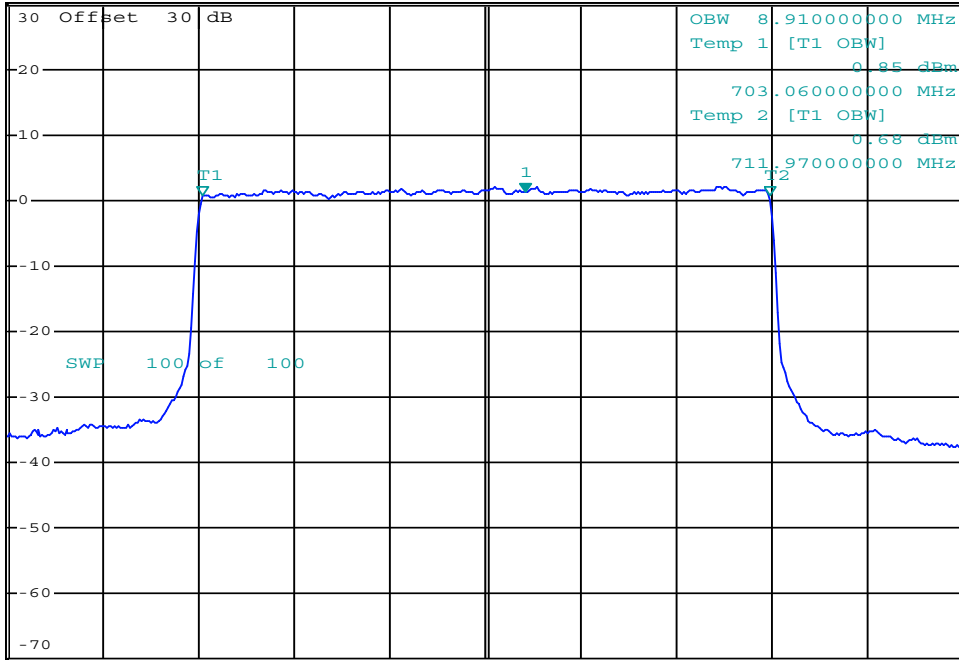
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 1.16 dBm
 *Att 10 dB 708.13000000 MHz
 *SWT 50 ms

Ref 30 dBm

1 RM*
 VIEW



Center 707.5 MHz 1.5 MHz/ Span 15 MHz

Date: 21.APR.2021 14:27:34

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 10.0	Occupied Bandwidth (MHz): 8.91
EARFCN: 23095	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 16QAM	

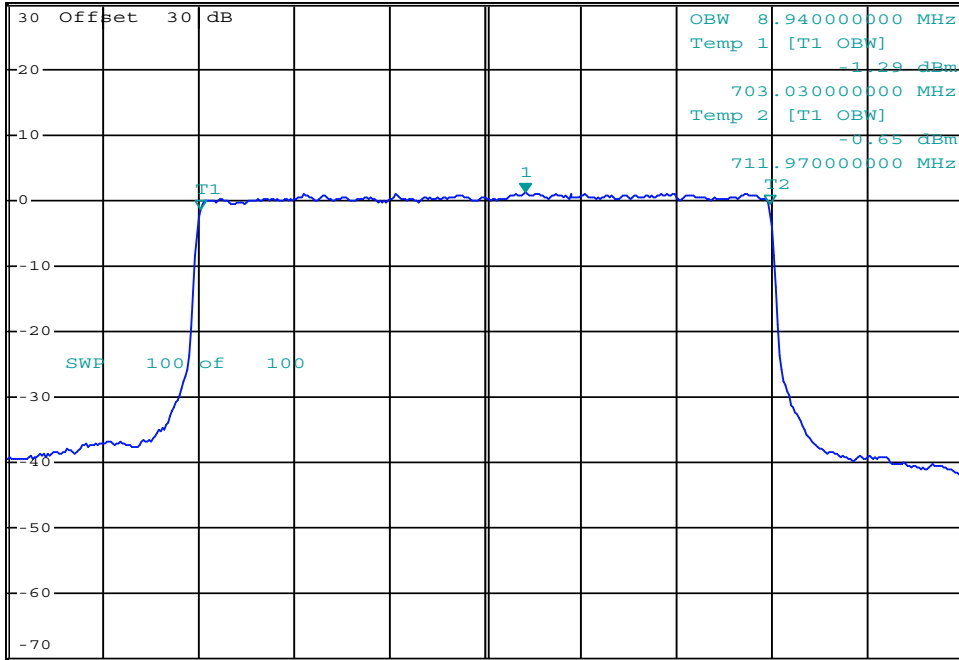
Occupied Bandwidth: LTE Band 12



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz 1.16 dBm
 *SWT 50 ms 708.13000000 MHz

Ref 30 dBm *Att 10 dB

1 RM*
 VIEW



Center 707.5 MHz 1.5 MHz/ Span 15 MHz

Date: 21.APR.2021 14:26:35

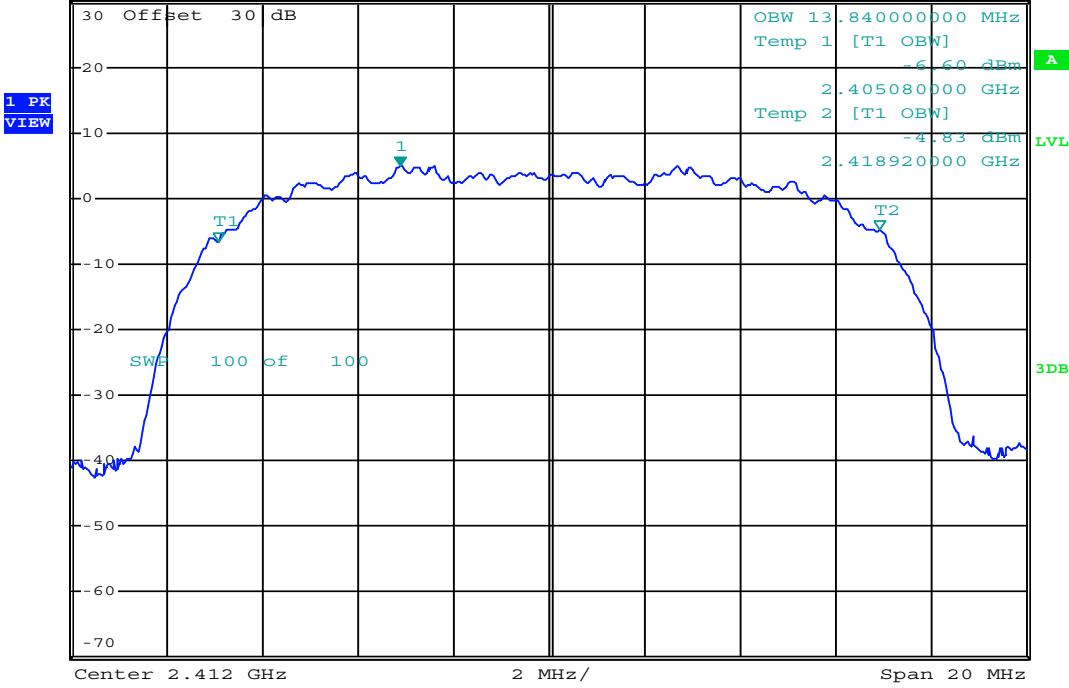
Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 10.0	Occupied Bandwidth (MHz): 8.94
EARFCN: 23095	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 64QAM	

Occupied Bandwidth Measurement Results			
Channel Frequency (MHz)	Modulation	Measured Occupied Bandwidth (MHz)	Emission Designator
2412	QPSK	13.84	13M8G1D
2442	QPSK	13.84	13M8G1D
2462	QPSK	13.88	13M9G1D
			Complies

Occupied Bandwidth: WiFi



*RBW 300 kHz Marker 1 [T1]
 VBW 1 MHz 5.00 dBm
 Ref 30 dBm *Att 10 dB SWT 2.5 ms 2.408880000 GHz



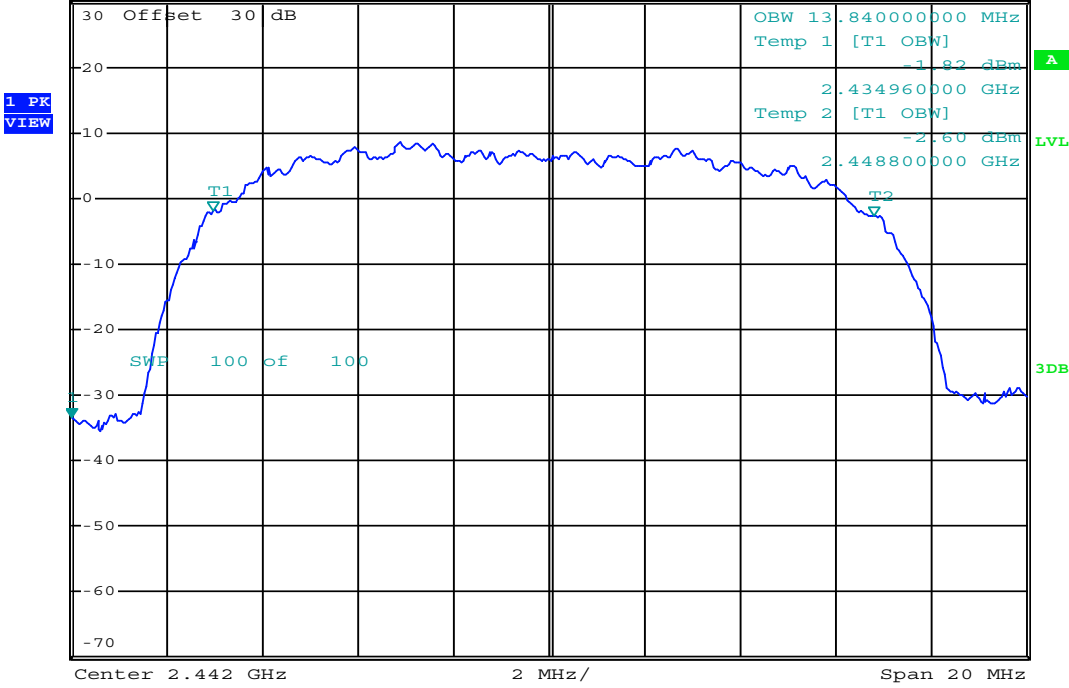
Date: 18.MAY.2021 10:28:48

Channel Frequency (MHz): 2412.0	Channel Bandwidth (MHz): -	Occupied Bandwidth (MHz): 13.84
EARFCN: -	Resource Blocks (RB): -	
RB Offset: -	Modulation: QPSK	

Occupied Bandwidth: WiFi



*RBW 300 kHz Marker 1 [T1]
 VBW 1 MHz -33.28 dBm
 Ref 30 dBm *Att 10 dB SWT 2.5 ms 2.432000000 GHz



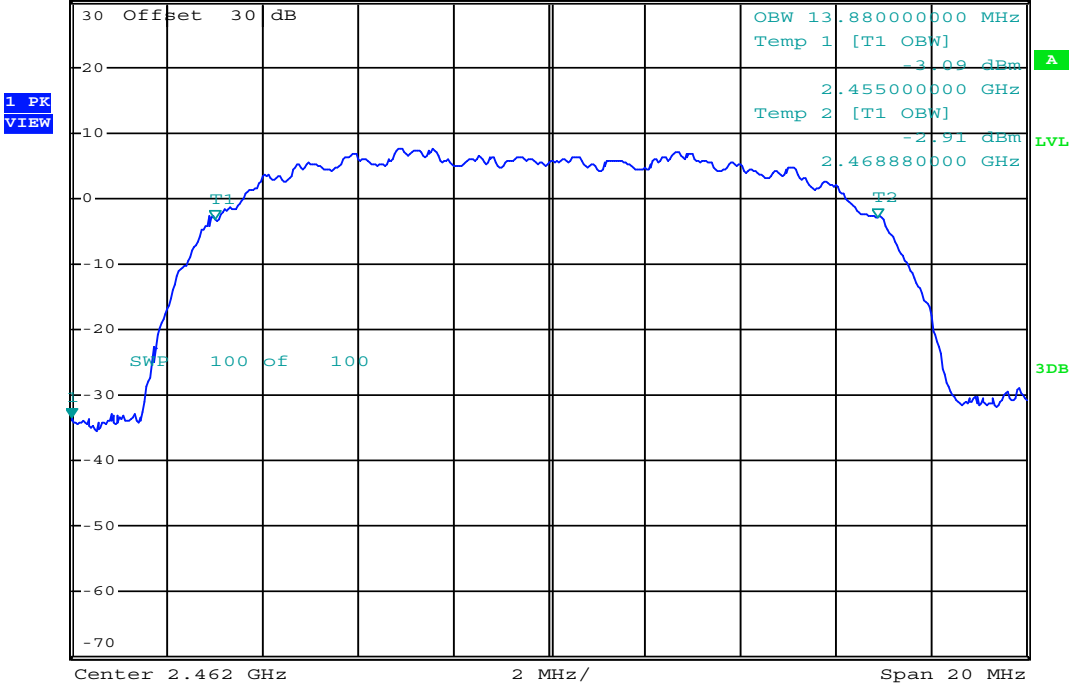
Date: 18.MAY.2021 10:29:28

Channel Frequency (MHz): 2442.0	Channel Bandwidth (MHz): -	Occupied Bandwidth (MHz): 13.84
EARFCN: -	Resource Blocks (RB): -	
RB Offset: -	Modulation: QPSK	

Occupied Bandwidth: WiFi



*RBW 300 kHz Marker 1 [T1]
 VBW 1 MHz -33.49 dBm
 Ref 30 dBm *Att 10 dB SWT 2.5 ms 2.45200000 GHz



Date: 18.MAY.2021 10:30:02

Channel Frequency (MHz): 2462.0	Channel Bandwidth (MHz): -	Occupied Bandwidth (MHz): 13.88
EARFCN: -	Resource Blocks (RB): -	
RB Offset: -	Modulation: QPSK	