

# FCC REPORT

## (LTE)

**Applicant:** Shenzhen Huafurui Technology Co., Ltd.

**Address of Applicant:** Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen, P.R. China

**Equipment Under Test (EUT)**

Product Name: Smartphone

Model No.: C30

Trade mark: CUBOT

**FCC ID:** 2AHZ5C30

**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 22 Subpart H  
FCC CFR Title 47 Part 24 Subpart E  
FCC CFR Title 47 Part 27 Subpart L  
FCC CFR Title 47 Part 27 Subpart M  
FCC CFR Title 47 Part 27 Subpart H

**Date of sample receipt:** 22 Jul., 2020

**Date of Test:** 22 Jul., to 10 Aug., 2020

**Date of report issued:** 17 Aug., 2020

**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2. Version

Version No.	Date	Description
00	17 Aug., 2020	Original

Tested by:

*Yao Wu*  
Test Engineer

Date:

17 Aug., 2020

Reviewed by:

*Winner Zhang*  
Project Engineer

Date:

17 Aug., 2020

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#### 4. Test Summary

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	Pass
Peak-to-Average Ratio	Part 24.232 (d) Part 27.50(d)(5)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(g) Part 27.53(h) Part 27.53(m)	Pass
Out of band emission at antenna terminals	Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	Pass
Field strength of spurious radiation	Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	Pass
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer).		
<b>Test Method:</b>	ANSI/TIA-603-E-2016 ANSI C63.26-2015	



## 5. General Information

### 5.1 Client Information

Applicant:	Shenzhen Huafului Technology Co., Ltd.
Address:	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen, P.R. China
Manufacturer/ Factory:	Shenzhen Huafului Technology Co., Ltd.
Address:	Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen, P.R. China

### 5.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	C30
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz LTE Band 5: 824MHz-849MHz, RX: 869MHz-894MHz LTE Band 7: TX: 2500MHz-2570MHz, RX: 2620MHz-2690MHz LTE Band 12: TX: 699MHz-716MHz, RX: 729MHz-746MHz LTE Band 17: TX: 704MHz-716MHz, RX: 734MHz-746MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 2: -1.6dBi LTE Band 4: -0.5dBi LTE Band 5: -2.1dBi LTE Band 7: -1.6dBi LTE Band 12: -2.8dBi LTE Band 17: -2.9dBi
Power supply:	Rechargeable Li-ion Battery DC3.85V-4200mAh
AC adapter:	Model: HJ-0502000W2-US Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2A
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.

## Operation Frequency List:

LTE Band 2 (1.4MHz)		LTE Band 2 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18607	1850.70	18615	1851.50
18608	1850.80	18616	1851.60
....	....	....	....
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19193	1909.20	19185	1908.40
19194	1909.30	19186	1908.50
LTE Band 2 (5MHz)		LTE Band 2 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18625	1852.50	18650	1855.00
18626	1852.60	18651	1855.10
....	....	....	....
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19175	1907.40	19150	1904.90
19176	1907.50	19151	1905.00
LTE Band 2 (15MHz)		LTE Band 2 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18675	1857.50	18700	1860.00
18676	1857.60	18701	1860.10
....	....	....	....
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19125	1902.40	19100	1899.90
19126	1902.50	19101	1900.00

LTE Band 4 (1.4MHz)		LTE Band 4 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19957	1710.70	19965	1711.50
19958	1710.80	19966	1711.60
....	....	....	....
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20392	1754.20	20384	1753.40
20393	1754.30	20385	1753.50
LTE Band 4 (5MHz)		LTE Band 4 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19975	1712.50	20000	1715.00
19976	1712.60	20001	1715.10
....	....	....	....
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20374	1752.40	20349	1749.90
20375	1752.50	20350	1750.00
LTE Band 4 (15MHz)		LTE Band 4 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20025	1717.50	20050	1720.00
20026	1717.60	20051	1720.10
....	....	....	....
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20324	1747.40	20299	1744.90
20325	1747.50	20300	1745.00

LTE Band 5 (1.4MHz)		LTE Band 5 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20407	824.70	20415	825.50
20408	824.80	20416	825.60
....	....	....	....
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20642	848.20	20634	847.40
20643	848.30	20635	847.50
LTE Band 5 (5MHz)		LTE Band 5 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20425	826.50	20450	829.00
20426	826.60	20451	829.10
....	....	....	....
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20624	846.40	20599	839.90
20625	846.50	20600	844.00

LTE Band 7 (5MHz)		LTE Band 7 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.50	20800	2505.00
20776	2502.60	20801	2502.10
....	....	....	....
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
...	...	...	...
21424	2567.40	21399	2564.90
21425	2567.50	21400	2565.00
LTE Band 7 (15MHz)		LTE Band 7 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.50	20850	2510.00
20826	2507.60	20851	2510.10
....	....	....	....
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
...	...	...	...
21374	2562.40	21349	2559.90
21375	2562.50	21350	2560.00

LTE Band 12 (1.4MHz)		LTE Band 12 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23017	699.70	23025	700.50
23756	699.80	23026	700.60
....	....	....	....
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
...	...	...	...
23172	715.20	23164	714.40
23173	715.30	23165	714.50
LTE Band 12 (5MHz)		LTE Band 12 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23035	701.50	23060	704.00
23036	701.60	23061	704.10
....	....	....	....
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
...	...	...	...
23154	713.40	23129	710.90
23155	713.50	23130	711.00

LTE Band 17 (5MHz)		LTE Band 17 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23755	706.50	23780	709.00
23756	706.60	23781	709.10
....	....	....	....
23789	709.90	23789	709.90
23790	710.00	23790	710.00
23791	710.10	23791	710.10
...	...	...	...
23824	713.40	23799	710.90
23825	713.50	23800	711.00

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 2 (1.4MHz)			LTE Band 2 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18607	1850.70	Lowest channel	18615	1851.50
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19193	1909.30	Highest channel	19185	1908.50
LTE Band 2 (5MHz)			LTE Band 2 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18625	1852.50	Lowest channel	18650	1855.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19175	1907.50	Highest channel	19150	1905.00
LTE Band 2 (15MHz)			LTE Band 2 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18675	1857.50	Lowest channel	18700	1860.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19125	1902.50	Highest channel	19100	1900.00

LTE Band 4 (1.4MHz)			LTE Band 4 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19957	1710.70	Lowest channel	19965	1711.50
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20393	1754.30	Highest channel	20385	1753.50
LTE Band 4 (5MHz)			LTE Band 4 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19975	1712.50	Lowest channel	20000	1715.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20375	1752.50	Highest channel	20350	1750.00
LTE Band 4 (15MHz)			LTE Band 4 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20025	1717.50	Lowest channel	20050	1720.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20325	1747.50	Highest channel	20300	1745.00

LTE Band 5 (1.4MHz)			LTE Band 5 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20407	824.70	Lowest channel	20415	825.50
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20643	848.30	Highest channel	20635	847.50
LTE Band 5 (5MHz)			LTE Band 5 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20425	826.50	Lowest channel	20450	829.00
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20625	846.50	Highest channel	20600	844.00

LTE Band 7 (5MHz)			LTE Band 7 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20775	2502.50	Lowest channel	20800	2505.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21425	2567.50	Highest channel	21400	2565.00
LTE Band 7 (15MHz)			LTE Band 7 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20825	2507.50	Lowest channel	20850	2510.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21375	2562.50	Highest channel	21350	2560.00

LTE Band 12(1.4MHz)			LTE Band 12(3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
LTE Band 12(5MHz)			LTE Band 12(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00

LTE Band 17(5MHz)			LTE Band 17(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00

### 5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.50Vdc, High 4.40Vdc
Test mode:	
LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode
LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

### 5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

### 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

### 5.7 Additions to, deviations, or exclusions from the method

No

### 5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

### 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

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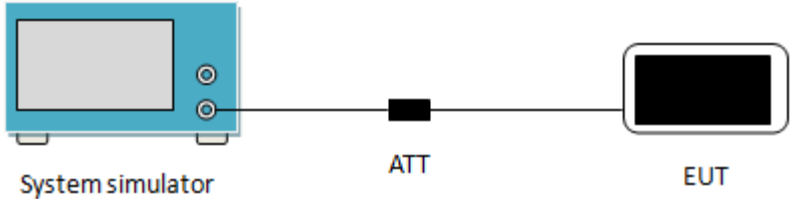


## 5.10 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2020	03-17-2021
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2019	11-17-2020
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-05-2020	03-04-2021
Signal Generator	R&S	SMR20	1008100050	03-05-2020	03-04-2021
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2019	09-24-2020
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2019	11-31-2020
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

## 6. Test results

### 6.1 Conducted Output Power, ERP and EIRP

Test Requirement:	Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2)
Limit:	LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 7: 2W, LTE Band 12: 3W, LTE Band 17: 3W
Test Setup:	 <p>The diagram illustrates the test setup. On the left is a blue rectangular box labeled 'System simulator'. A line connects it to a small black rectangle labeled 'ATT' (attenuator). Another line connects the 'ATT' to a black rectangular box labeled 'EUT' (Equipment Under Test).</p>
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

## Measurement Data:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
2	1.4	QPSK	1	0	24.09	23.96	23.42
			1	2	24.31	24.21	23.50
			1	5	24.12	23.90	23.43
			3	0	24.14	24.10	23.43
			3	1	23.14	23.10	23.43
			3	2	23.13	23.07	23.35
			6	0	23.12	23.05	23.38
		Antenna Gain (dBi):			-1.6		
		Max. EIRP (dBm):			22.71		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	23.06	23.18	22.29
			1	2	23.32	23.22	22.26
			1	5	23.08	23.17	22.39
			3	0	23.24	23.16	22.39
			3	1	23.25	23.11	22.16
			3	2	23.29	23.15	22.25
			6	0	22.16	22.11	21.43
		Antenna Gain (dBi):			-1.6		
		Max. EIRP (dBm):			21.72		
		EIRP Limit (dBm):			33.00		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
2	3	QPSK	1	0	24.05	24.04	23.49
			1	7	23.99	24.04	23.47
			1	14	24.01	24.06	23.51
			8	0	23.10	23.14	22.44
			8	4	23.08	23.12	22.46
			8	7	23.15	23.14	22.50
			15	0	23.08	23.11	22.45
		Antenna Gain (dBi):			-1.60		
		Max. EIRP (dBm):			22.46		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	23.34	23.28	22.37
			1	7	23.35	23.25	22.31
			1	14	23.26	23.29	22.30
			8	0	22.13	22.12	21.46
			8	4	22.12	22.11	21.45
			8	7	22.11	22.13	21.46
			15	0	22.00	21.99	21.44
		Antenna Gain (dBi):			-1.60		
		Max. EIRP (dBm):			21.75		
		EIRP Limit (dBm):			33.00		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).							

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					18625	18900	19175	
					1852.5MHz	1880.0MHz	1907.5MHz	
2	5	QPSK	1	0	23.92	23.93	23.30	
			1	12	23.98	24.10	23.43	
			1	24	23.88	23.92	23.42	
			12	0	23.09	23.07	22.40	
			12	6	23.07	23.06	22.50	
			12	11	23.08	23.07	22.46	
			25	0	23.10	23.11	22.15	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.50		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	23.25	23.33	22.55	
			1	12	23.29	23.46	22.57	
			1	24	23.22	23.30	22.51	
			12	0	22.05	22.08	21.33	
			12	6	22.16	22.09	21.46	
			12	11	22.13	22.10	21.43	
			25	0	22.08	22.05	21.42	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.86				
EIRP Limit (dBm):				33.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					18650	18900	19150	
					1855.0MHz	1880.0MHz	1905.0MHz	
2	10	QPSK	1	0	24.01	24.05	23.34	
			1	24	24.12	24.30	23.48	
			1	49	23.99	24.08	23.35	
			25	0	23.06	23.12	22.59	
			25	12	23.08	23.18	22.51	
			25	24	23.13	23.15	22.58	
			50	0	23.08	23.11	22.42	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.70		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	23.21	22.90	22.65	
			1	24	23.35	23.14	22.85	
			1	49	23.20	22.94	22.57	
			25	0	22.04	22.10	21.64	
			25	12	22.16	22.15	21.63	
			25	24	22.13	22.17	21.62	
			50	0	21.03	21.92	21.03	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.75				
EIRP Limit (dBm):				33.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					18675	18900	19125	
					1857.5MHz	1880.0MHz	1902.5MHz	
2	15	QPSK	1	0	24.10	23.99	23.39	
			1	37	24.18	24.10	23.47	
			1	74	24.06	23.97	23.34	
			36	0	23.19	23.25	22.75	
			36	16	23.22	23.22	22.65	
			36	35	23.25	23.18	22.63	
			75	0	23.19	23.10	22.62	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.58		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	23.10	23.34	22.55	
			1	37	23.14	23.36	22.71	
			1	74	23.06	23.27	22.48	
			36	0	22.07	22.14	21.67	
			36	16	22.09	22.15	21.62	
			36	35	22.13	22.19	21.52	
			75	0	21.15	21.43	21.23	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.76				
EIRP Limit (dBm):				33.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					18700	18900	19100	
					1860.0MHz	1880.0MHz	1900.0MHz	
2	20	QPSK	1	0	23.96	23.83	23.49	
			1	49	24.22	23.94	23.65	
			1	99	23.93	24.25	23.35	
			50	0	23.00	23.93	22.61	
			50	24	23.01	23.19	22.46	
			50	49	23.15	23.28	22.26	
			100	0	22.85	23.22	22.10	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.65		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	22.78	23.20	22.28	
			1	49	22.93	23.49	22.44	
			1	99	22.80	23.10	22.18	
			50	0	21.98	22.24	21.55	
			50	24	22.03	22.19	21.40	
			50	49	22.00	22.41	21.36	
			100	0	21.98	21.86	21.22	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.89				
EIRP Limit (dBm):				33.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					19957	20175	20393	
					1710.7MHz	1732.5MHz	1754.3MHz	
4	1.4	QPSK	1	0	24.22	24.26	24.28	
			1	2	24.38	24.46	24.62	
			1	5	24.25	24.24	24.29	
			3	0	23.24	23.31	23.26	
			3	1	23.26	23.30	23.25	
			3	2	23.22	23.29	23.22	
			6	0	23.26	23.38	23.30	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				24.12		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.22	23.44	23.11	
			1	2	23.36	23.68	23.28	
			1	5	23.22	23.47	23.13	
			3	0	23.40	23.37	23.22	
			3	1	23.45	23.36	23.21	
			3	2	23.41	23.37	23.22	
			6	0	22.28	22.35	22.31	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.18		
EIRP Limit (dBm):				30.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					19965	20175	20385	
					1711.5MHz	1732.5MHz	1753.5MHz	
4	3	QPSK	1	0	24.26	24.36	24.24	
			1	7	24.27	24.29	24.19	
			1	14	24.32	24.30	24.21	
			8	0	23.28	23.33	23.33	
			8	4	23.24	23.35	23.35	
			8	7	23.28	23.38	23.34	
			15	0	23.20	23.01	23.03	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.86		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.16	23.60	23.37	
			1	7	23.21	23.58	23.38	
			1	14	23.10	23.57	23.43	
			8	0	22.31	22.36	22.27	
			8	4	22.26	22.40	22.24	
			8	7	22.28	22.10	22.22	
			15	0	22.12	22.29	22.12	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.10		
EIRP Limit (dBm):				30.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					19975	20175	20375	
					1712.5MHz	1732.5MHz	1752.5MHz	
4	5	QPSK	1	0	24.12	24.28	24.07	
			1	12	24.22	24.35	24.17	
			1	24	24.12	24.25	24.10	
			12	0	23.26	23.43	23.24	
			12	6	23.27	23.42	23.22	
			12	11	23.24	23.39	23.20	
			25	0	23.01	23.37	23.18	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.85		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.41	23.48	23.36	
			1	12	23.54	23.54	23.44	
			1	24	23.45	23.41	23.37	
			12	0	22.22	22.28	22.70	
			12	6	22.19	22.16	22.15	
			12	11	22.16	22.31	22.19	
			25	0	21.98	22.32	22.02	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.04		
EIRP Limit (dBm):				30.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20000	20175	20350	
					1715.0MHz	1732.5MHz	1750.0MHz	
4	10	QPSK	1	0	24.20	24.42	24.24	
			1	24	24.43	24.58	24.32	
			1	49	24.25	24.40	24.20	
			25	0	23.25	23.40	23.18	
			25	12	23.22	23.15	23.38	
			25	24	23.37	23.41	23.22	
			50	0	23.20	23.02	23.01	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				24.08		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.38	23.28	23.43	
			1	24	23.62	23.44	23.56	
			1	49	23.49	23.90	23.46	
			25	0	22.35	22.35	22.40	
			25	12	22.43	22.39	22.30	
			25	24	22.41	22.38	22.35	
			50	0	22.03	22.15	22.21	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.40		
EIRP Limit (dBm):				30.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20025	20175	20325	
					1717.5MHz	1732.5MHz	1747.5MHz	
4	15	QPSK	1	0	24.14	24.28	24.32	
			1	37	24.26	24.33	24.42	
			1	74	24.15	24.20	24.30	
			36	0	23.35	23.39	23.52	
			36	16	23.44	23.49	23.39	
			36	35	23.42	23.51	23.38	
			75	0	23.41	23.21	23.15	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.92		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.46	23.48	23.27	
			1	37	23.58	23.54	23.31	
			1	74	23.49	23.32	23.31	
			36	0	22.31	22.33	22.38	
			36	16	22.44	22.26	22.26	
			36	35	22.35	22.41	22.35	
			75	0	22.03	22.15	22.05	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.08		
		EIRP Limit (dBm):				30.00		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20050	20175	20300	
					1720.0MHz	1732.5MHz	1745.0MHz	
4	20	QPSK	1	0	24.13	24.31	24.22	
			1	49	24.41	24.60	24.46	
			1	99	24.10	24.28	24.14	
			50	0	23.23	23.27	23.38	
			50	24	23.22	23.35	23.19	
			50	49	23.42	23.22	23.22	
			100	0	23.15	23.03	23.04	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				24.10		
		EIRP Limit (dBm):				30.00		
		16QAM	1	0	23.38	23.16	22.99	
			1	49	23.61	23.39	23.11	
			1	99	23.39	23.04	22.88	
			50	0	22.29	22.21	22.39	
			50	24	22.25	22.31	22.18	
			50	49	22.39	22.06	22.26	
			100	0	22.12	21.98	21.85	
		Antenna Gain (dBi):				-0.50		
		Max. EIRP (dBm):				23.11		
		EIRP Limit (dBm):				30.00		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								



LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20407	20525	20643	
					824.7MHz	836.5MHz	848.3MHz	
5	1.4	QPSK	1	0	24.28	24.16	24.17	
			1	2	24.51	24.32	24.44	
			1	5	24.27	24.16	24.33	
			3	0	23.25	23.22	23.23	
			3	1	23.22	23.25	23.22	
			3	2	23.16	23.16	23.17	
			6	0	23.31	23.29	23.30	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				22.15		
		ERP Limit (dBm):				38.45		
		16QAM	1	0	23.21	23.39	23.06	
			1	2	23.43	23.46	23.21	
			1	5	23.21	23.38	23.07	
			3	0	23.38	23.28	23.17	
			3	1	23.22	23.31	23.13	
			3	2	23.15	23.25	23.15	
			6	0	22.36	22.52	22.22	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				21.10		
		ERP Limit (dBm):				38.45		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20415	20525	20635	
					825.5MHz	836.5MHz	847.50MHz	
5	3	QPSK	1	0	24.19	24.24	24.27	
			1	7	24.17	24.20	24.23	
			1	14	24.22	24.24	24.40	
			8	0	23.28	23.27	23.25	
			8	4	23.28	23.33	23.25	
			8	7	23.16	23.30	23.24	
			15	0	23.24	23.21	23.13	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				22.04		
		ERP Limit (dBm):				38.45		
		16QAM	1	0	23.48	23.43	23.15	
			1	7	23.46	23.42	23.12	
			1	14	23.46	23.40	23.08	
			8	0	22.25	22.30	22.27	
			8	4	22.27	22.29	22.26	
			8	7	22.22	22.25	22.23	
			15	0	22.19	22.12	22.10	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				21.12		
		ERP Limit (dBm):				38.45		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm ) = EIRP (dBm) - 2.15 (dB).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20425	20525	20625	
					826.5MHz	836.5MHz	846.5MHz	
5	5	QPSK	1	0	24.08	24.10	24.12	
			1	12	24.21	24.28	24.26	
			1	24	24.14	24.16	24.25	
			12	0	23.25	23.27	23.31	
			12	6	23.26	23.21	23.28	
			12	11	23.23	23.28	23.26	
			25	0	23.11	23.02	23.11	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				21.92		
		ERP Limit (dBm):				38.45		
		16QAM	1	0	23.43	23.46	23.29	
			1	12	23.50	23.55	23.44	
			1	24	23.46	23.41	23.29	
			12	0	22.29	22.24	22.24	
			12	6	22.28	22.23	22.18	
			12	11	22.15	22.32	22.23	
			25	0	22.02	22.04	22.01	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				21.19		
ERP Limit (dBm):				38.45				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20450	20525	20600	
					829.0MHz	836.5MHz	844.0MHz	
5	10	QPSK	1	0	24.15	24.24	24.14	
			1	24	24.40	24.52	24.32	
			1	49	24.26	24.34	24.21	
			25	0	23.29	23.34	23.28	
			25	12	23.35	23.33	23.23	
			25	24	23.30	23.29	23.28	
			50	0	22.15	22.51	22.63	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				22.16		
		ERP Limit (dBm):				38.45		
		16QAM	1	0	23.35	23.12	23.33	
			1	24	23.57	23.32	23.57	
			1	49	23.44	23.10	23.40	
			25	0	22.32	22.32	22.33	
			25	12	22.32	22.31	22.30	
			25	24	22.15	22.15	22.31	
			50	0	22.01	21.95	21.86	
		Antenna Gain(dBi):				-0.21		
		Max. ERP (dBm):				21.21		
ERP Limit (dBm):				38.45				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								
ERP (dBm ) = EIRP (dBm) - 2.15 (dB).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20775	21100	21425	
					2502.5MHz	2535.0MHz	2567.5MHz	
7	5	QPSK	1	0	23.61	23.47	23.38	
			1	12	23.75	23.61	23.51	
			1	24	23.61	23.46	23.34	
			12	0	22.73	22.64	22.47	
			12	6	22.78	22.62	22.46	
			12	11	22.75	22.63	22.45	
			25	0	22.12	22.01	22.05	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.15		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	22.77	22.71	22.60	
			1	12	22.90	22.83	22.68	
			1	24	22.80	22.71	22.56	
			12	0	21.66	21.68	21.45	
			12	6	21.70	21.62	21.42	
			12	11	21.72	21.65	21.46	
			25	0	21.20	21.03	21.01	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.30				
EIRP Limit (dBm):				33.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20800	21100	21400	
					2505.0MHz	2535.0MHz	2565.0MHz	
7	10	QPSK	1	0	23.79	23.60	23.59	
			1	24	23.90	23.80	23.78	
			1	49	23.79	23.44	23.57	
			25	0	22.72	22.86	22.69	
			25	12	22.81	22.64	22.66	
			25	24	22.74	22.76	22.64	
			50	0	22.05	22.10	22.03	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.30		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	22.53	23.00	22.74	
			1	24	22.76	23.02	22.91	
			1	49	22.58	22.72	22.67	
			25	0	21.74	21.95	21.69	
			25	12	21.79	21.73	21.74	
			25	24	21.78	21.22	21.58	
			50	0	21.05	20.98	21.01	
Antenna Gain (dBi):				-1.60				
Max. EIRP (dBm):				21.42				
EIRP Limit (dBm):				33.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

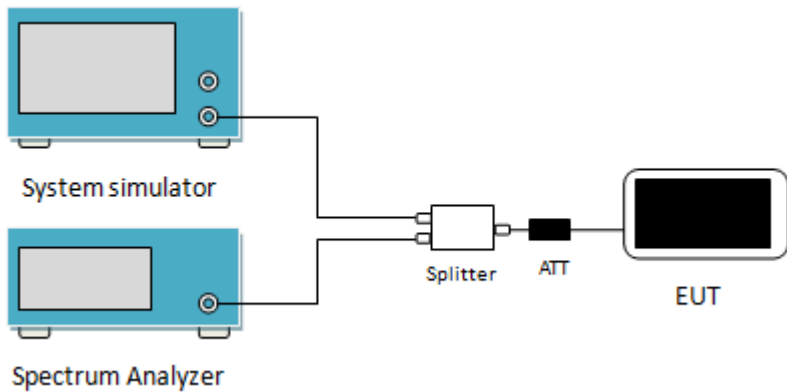
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20825	21100	21375	
					2507.5MHz	2535.0MHz	2562.5MHz	
7	15	QPSK	1	0	23.48	23.96	23.45	
			1	37	23.49	23.84	23.69	
			1	74	23.49	23.42	23.52	
			36	0	22.56	22.75	22.74	
			36	16	22.66	22.67	22.84	
			36	35	22.67	22.85	22.74	
			75	0	22.01	22.03	22.16	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.36		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	22.66	22.85	22.67	
			1	37	22.61	22.71	22.86	
			1	74	22.66	22.43	22.65	
			36	0	21.55	21.93	21.62	
			36	16	21.60	21.56	21.72	
			36	35	21.52	21.67	21.68	
			75	0	20.98	20.89	21.01	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				21.26		
EIRP Limit (dBm):				33.00				
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					20850	21100	21350	
					2510.0MHz	2535.0MHz	2560.0MHz	
7	20	QPSK	1	0	23.45	23.89	23.31	
			1	49	23.68	23.91	23.82	
			1	99	23.64	23.36	23.51	
			50	0	22.40	22.85	22.52	
			50	24	22.64	22.54	22.65	
			50	49	22.53	22.72	22.59	
			100	0	22.10	22.03	21.98	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				22.31		
		EIRP Limit (dBm):				33.00		
		16QAM	1	0	22.66	22.62	22.09	
			1	49	22.81	22.65	22.50	
			1	99	22.77	22.13	22.19	
			50	0	21.45	21.83	21.61	
			50	24	21.69	21.52	21.69	
			50	49	21.53	21.41	21.65	
			100	0	20.96	20.67	20.83	
		Antenna Gain (dBi):				-1.60		
		Max. EIRP (dBm):				21.21		
EIRP Limit (dBm):				33.00				
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23017	23095	23173	
					699.7MHz	707.5MHz	715.3MHz	
12	1.4	QPSK	1	0	23.69	23.97	24.59	
			1	2	23.71	24.22	24.86	
			1	5	23.80	24.05	24.71	
			3	0	23.27	23.07	23.45	
			3	1	23.25	23.11	23.36	
			3	2	23.29	23.32	23.32	
			6	0	22.69	23.04	23.67	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				19.91		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	22.72.	23.15	23.51	
			1	2	22.92	23.45	23.68	
			1	5	22.73	23.27	23.59	
			3	0	22.88	23.14	23.64	
			3	1	22.89	23.17	23.65	
			3	2	22.94	23.19	23.69	
			6	0	21.76	22.07	22.67	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				18.74		
		ERP Limit (dBm):				34.77		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23025	23095	23165	
					700.5MHz	707.5MHz	714.5MHz	
12	3	QPSK	1	0	23.69	24.00	24.47	
			1	7	23.70	24.15	24.57	
			1	14	23.72	24.21	24.66	
			8	0	22.65	23.03	23.57	
			8	4	22.68	23.10	23.59	
			8	7	22.77	23.13	23.66	
			15	0	22.71	23.09	23.58	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				19.71		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	22.85	22.85	23.77	
			1	7	22.85	23.00	23.88	
			1	14	22.88	23.09	23.92	
			8	0	21.69	22.08	22.57	
			8	4	21.75	22.10	22.59	
			8	7	21.78	22.17	22.70	
			15	0	21.67	22.14	22.63	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				18.97		
		ERP Limit (dBm):				34.77		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). ERP (dBm ) = EIRP (dBm) - 2.15 (dB).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
12	5	QPSK	1	0	23.56	23.75	24.26	
			1	12	23.68	24.11	24.57	
			1	24	23.68	24.15	24.65	
			12	0	22.51	23.13	23.49	
			12	6	22.69	23.22	23.51	
			12	11	22.76	23.27	23.55	
			25	0	22.63	23.21	23.57	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				19.70		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	22.86	23.14	23.49	
			1	12	22.96	23.38	23.71	
			1	24	23.03	23.45	23.83	
			12	0	21.59	22.11	22.44	
			12	6	21.64	22.25	22.51	
			12	11	21.79	22.28	22.53	
			25	0	21.66	22.24	22.55	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				18.88		
		ERP Limit (dBm):				34.77		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23060	23095	23130	
					704.0MHz	707.5MHz	711.0MHz	
12	10	QPSK	1	0	23.59	23.68	23.94	
			1	24	24.21	23.85	24.33	
			1	49	24.80	23.92	24.41	
			25	0	22.62	23.22	23.11	
			25	12	22.71	23.34	23.48	
			25	24	22.83	23.22	23.59	
			50	0	22.76	23.15	23.29	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				19.85		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	22.91	23.24	22.83	
			1	24	23.24	23.58	23.01	
			1	49	23.44	23.65	23.11	
			25	0	21.78	22.27	22.18	
			25	12	21.85	22.34	22.16	
			25	24	21.92	22.62	22.47	
			50	0	21.15	21.15	21.52	
		Antenna Gain(dBi):				-2.80		
		Max. ERP (dBm):				18.70		
		ERP Limit (dBm):				34.77		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								
ERP (dBm ) = EIRP (dBm) - 2.15 (dB).								

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23755	23790	23825	
					706.5MHz	710.0MHz	713.5MHz	
17	5	QPSK	1	0	23.86	24.13	24.42	
			1	12	24.18	24.41	24.75	
			1	24	24.25	24.55	24.76	
			12	0	23.24	23.20	23.69	
			12	6	23.16	23.60	23.58	
			12	11	23.24	23.15	23.68	
			25	0	23.24	23.47	23.68	
		Antenna Gain(dBi):				-2.90		
		Max. ERP (dBm):				19.71		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	23.08	23.46	23.60	
			1	12	23.40	23.69	23.97	
			1	24	23.50	23.85	23.94	
			12	0	22.21	22.21	22.64	
			12	6	22.25	22.35	22.63	
			12	11	22.27	22.58	22.65	
			25	0	22.26	22.50	22.68	
		Antenna Gain(dBi):				-2.90		
		Max. ERP (dBm):				18.92		
		ERP Limit (dBm):				34.77		
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)			
					23780	23790	23800	
					709.0MHz	710.0MHz	711.0MHz	
17	10	QPSK	1	0	24.01	24.00	24.06	
			1	24	24.59	24.52	24.06	
			1	49	24.79	24.38	24.23	
			25	0	23.36	23.31	23.24	
			25	12	23.45	23.54	23.25	
			25	24	23.56	23.61	23.58	
			50	0	23.53	23.44	23.44	
		Antenna Gain(dBi):				-2.90		
		Max. ERP (dBm):				19.74		
		ERP Limit (dBm):				34.77		
		16QAM	1	0	22.80	23.29	23.24	
			1	24	23.54	23.78	23.76	
			1	49	23.22	23.48	23.54	
			25	0	22.41	22.41	22.29	
			25	12	22.45	22.52	22.42	
			25	24	22.63	22.66	22.62	
			50	0	21.15	21.38	21.35	
		Antenna Gain(dBi):				-2.90		
		Max. ERP (dBm):				18.73		
		ERP Limit (dBm):				34.77		
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).								
ERP (dBm ) = EIRP (dBm) - 2.15 (dB).								

## 6.2 Peak-to-Average Ratio

Test Requirement:	Part 24.232 (d), Part 27.50(d)(5)
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port is connected to a black rectangular unit labeled 'EUT' (Equipment Under Test).</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 Set the CCDF option in spectrum analyzer, <math>RBW \geq OBW</math>,</li> <li>3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.</li> <li>4 Repeat step 1~3 at other frequency and modulations.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



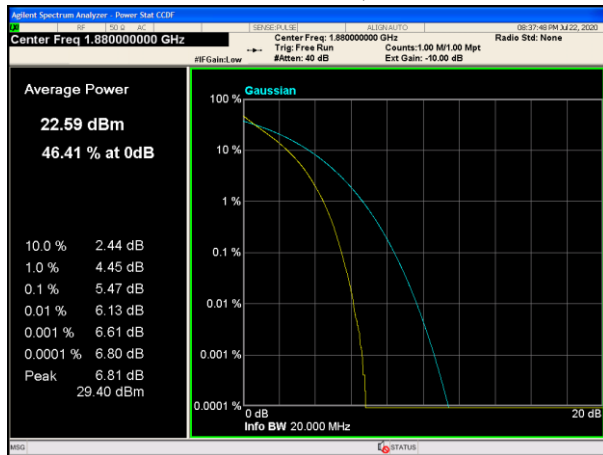
## Measurement Data (Worst case):

Bandwidth	Modulation	RB Size	RB Offset	PAPR
LTE Band 2 (Middle Channel)				
20MHz	QPSK	100	0	5.47
	16QAM	100	0	6.18
LTE Band 4 (Middle Channel)				
20MHz	QPSK	100	0	5.27
	16QAM	100	0	6.07
LTE Band 5 (Middle Channel)				
10MHz	QPSK	50	0	5.45
	16QAM	50	0	6.11
LTE Band 7 (Middle Channel)				
20MHz	QPSK	100	0	5.18
	16QAM	100	0	5.98
LTE Band 12 (Middle Channel)				
10MHz	QPSK	50	0	5.82
	16QAM	50	0	6.43
LTE Band 17 (Middle Channel)				
10MHz	QPSK	50	0	5.74
	16QAM	50	0	6.41

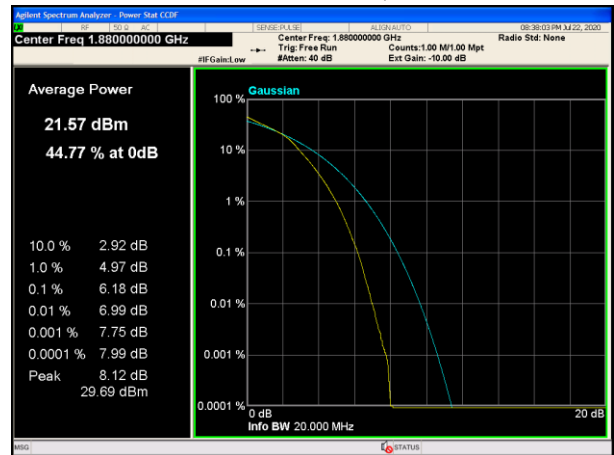
Test plots as below:

### LTE Band 2 Middle channel

Modulation: QPSK

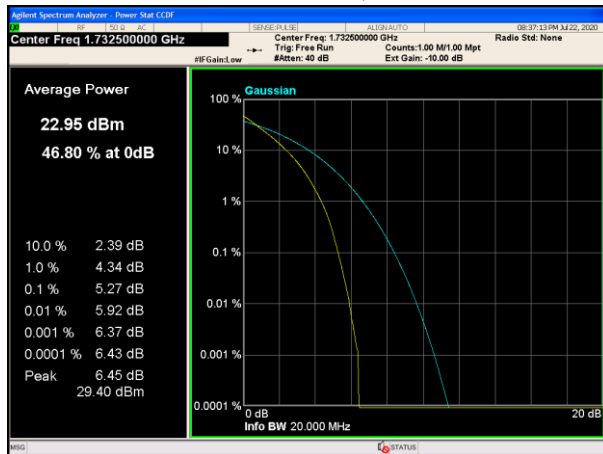


Modulation: 16QAM

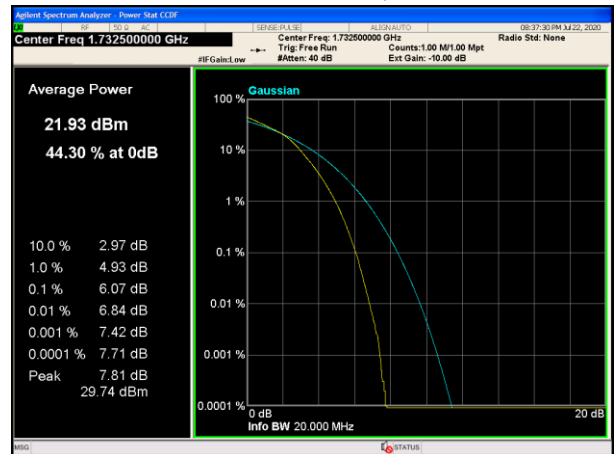


### LTE Band 4 Middle channel

Modulation: QPSK

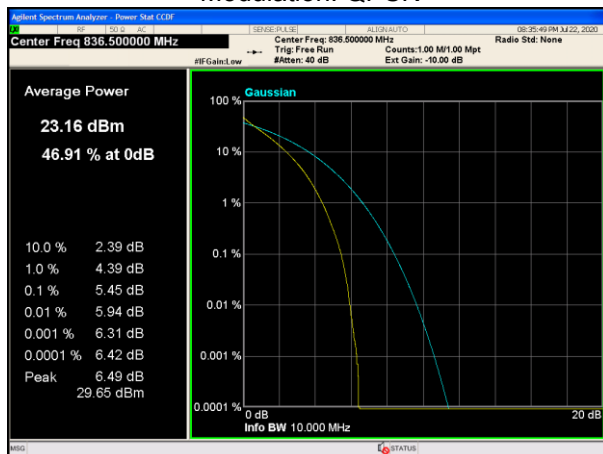


Modulation: 16QAM

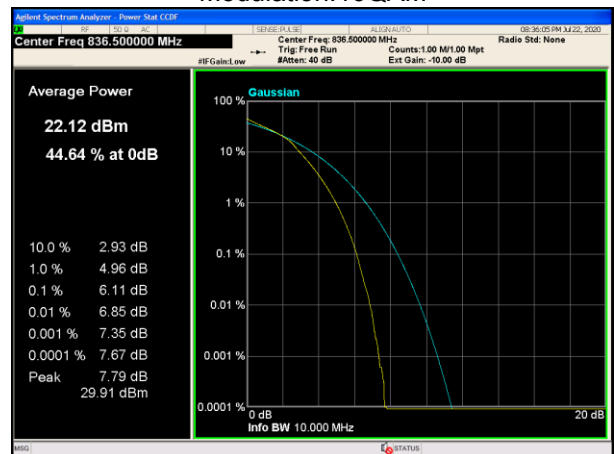


### LTE Band 5 Middle channel

Modulation: QPSK

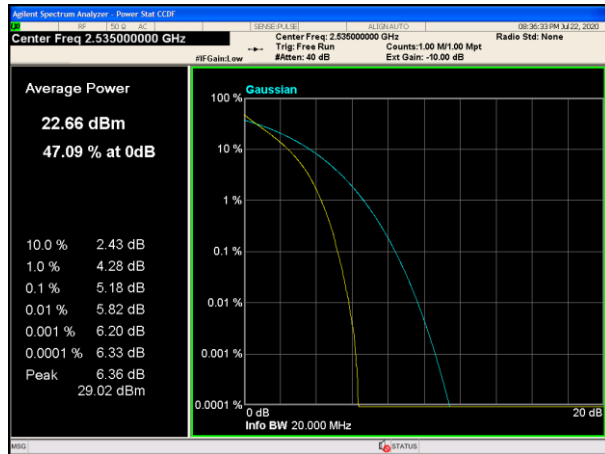


Modulation: 16QAM

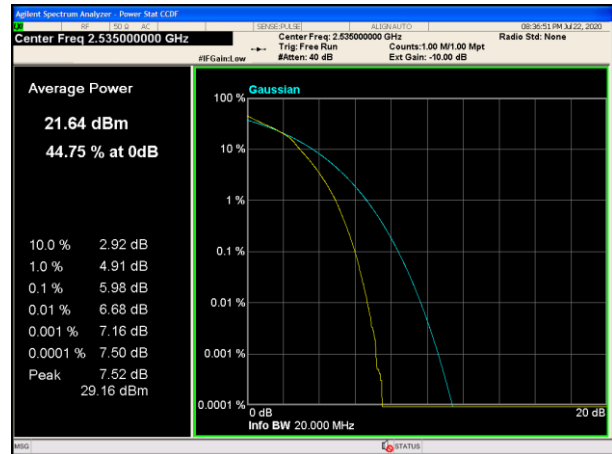


## LTE Band 7 Middle channel

### Modulation: QPSK

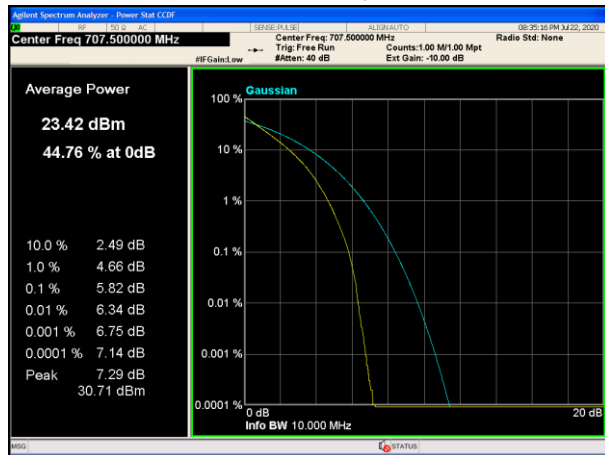


### Modulation: 16QAM

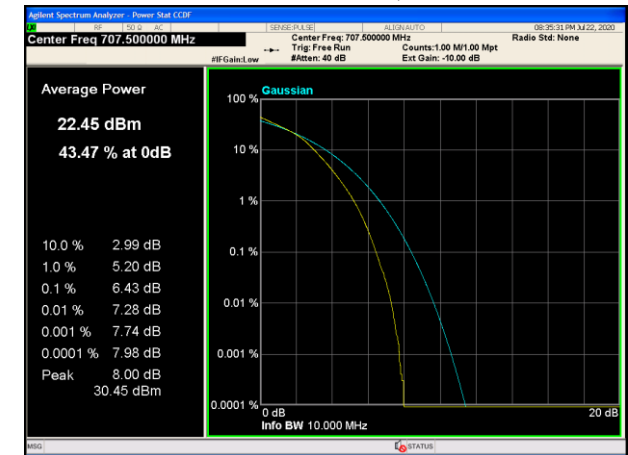


## LTE Band 12 Middle channel

### Modulation: QPSK

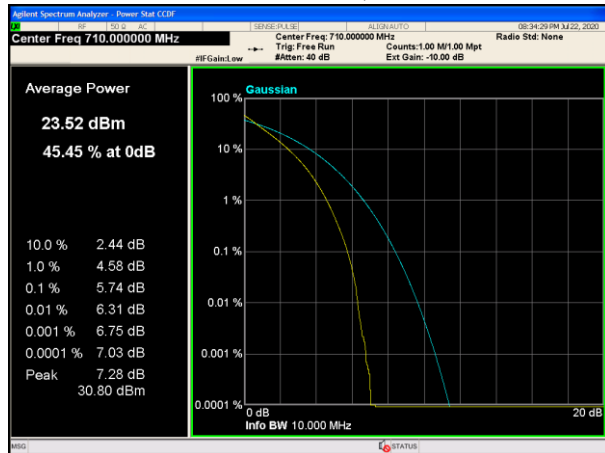


### Modulation: 16QAM

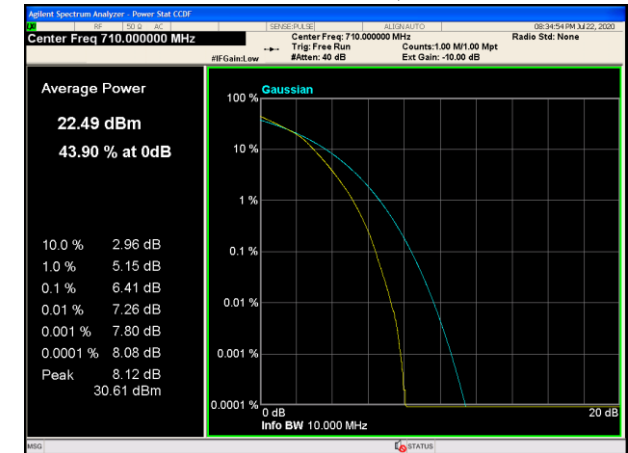


## LTE Band 12 Middle channel

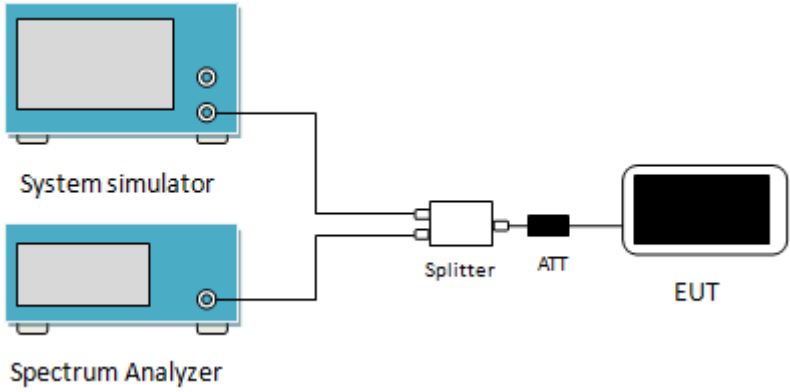
### Modulation: QPSK



### Modulation: 16QAM



## 6.3 Occupy Bandwidth

Test Requirement:	Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m)
Test Setup:	 <p>The diagram illustrates the test setup. On the left, there are two blue rectangular devices: a 'System simulator' on top and a 'Spectrum Analyzer' on the bottom. Both have a single output port. These two ports are connected to a single input port of a 'Splitter' (a white rectangular box with two output ports). One output port of the Splitter is connected to an 'ATT' (Attenuator, a small black rectangular box). The other output port of the Splitter is connected to the 'EUT' (Equipment Under Test, a black rectangular box with a screen).</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

## Measurement Data:

LTE Band 2					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	18607	1850.70	16QAM	1092	1272
			QPSK	1104	1290
	18900	1880.00	16QAM	1086	1260
			QPSK	1098	1266
	19193	1909.30	16QAM	1098	1242
			QPSK	1104	1266
3MHz	18615	1851.50	16QAM	2724	2964
			QPSK	2736	3024
	18900	1880.00	16QAM	2700	2952
			QPSK	2712	3012
	19185	1908.50	16QAM	2712	2976
			QPSK	2724	2976
5MHz	18625	1852.50	16QAM	4500	4980
			QPSK	4500	5100
	18900	1880.00	16QAM	4500	4920
			QPSK	4520	5060
	19175	1907.50	16QAM	4540	4900
			QPSK	4540	5100
10MHz	18650	1855.00	16QAM	9080	10080
			QPSK	9160	10280
	18900	1880.00	16QAM	9120	10160
			QPSK	9160	10360
	19150	1905.00	16QAM	9120	10120
			QPSK	9120	10440
15MHz	18675	1857.50	16QAM	13500	14880
			QPSK	13620	15300
	18900	1880.00	16QAM	13500	14820
			QPSK	13560	14820
	19125	1902.50	16QAM	13560	14580
			QPSK	13560	15000
20MHz	18700	1860.00	16QAM	18000	19120
			QPSK	18000	19520
	18900	1880.00	16QAM	18000	19440
			QPSK	18080	19760
	19100	1900.00	16QAM	17920	19440
			QPSK	18080	19440

LTE Band 4					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	19957	1710.7	16QAM	1086	1284
			QPSK	1098	1290
	20175	1732.5	16QAM	1098	1254
			QPSK	1104	1284
	20393	1754.3	16QAM	1092	1278
			QPSK	1104	1278
3MHz	19965	1711.5	16QAM	2700	2952
			QPSK	2736	2988
	20175	1732.5	16QAM	2724	2964
			QPSK	2724	2988
	20385	1750.5	16QAM	2712	2952
			QPSK	2736	3000
5MHz	19975	1712.5	16QAM	4500	4840
			QPSK	4540	5040
	20175	1732.5	16QAM	4500	4980
			QPSK	4520	5040
	20375	1752.5	16QAM	4500	5060
			QPSK	4520	5120
10MHz	20000	1715.0	16QAM	9120	10080
			QPSK	9160	10480
	20175	1732.5	16QAM	9120	10280
			QPSK	9120	10240
	20350	1750.0	16QAM	9120	10120
			QPSK	9160	10440
15MHz	20025	1717.5	16QAM	13560	14700
			QPSK	13560	15120
	20175	1732.5	16QAM	13500	14880
			QPSK	13500	15120
	20325	1747.5	16QAM	13500	14580
			QPSK	13560	15000
20MHz	20050	1720.0	16QAM	18000	19520
			QPSK	18080	19600
	20175	1732.5	16QAM	18000	19280
			QPSK	18000	19360
	20300	1745.0	16QAM	17840	19280
			QPSK	17920	19600

TE Band 5					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	20407	824.7	16QAM	1092	1284
			QPSK	1098	1284
	20525	836.5	16QAM	1092	1266
			QPSK	1098	1272
	20643	848.3	16QAM	1092	1278
			QPSK	1098	1302
3MHz	20415	825.5	16QAM	2712	2940
			QPSK	2724	2988
	20525	836.50	16QAM	2712	2940
			QPSK	2736	3000
	20635	847.50	16QAM	2724	2940
			QPSK	2724	2988
5MHz	20425	826.50	16QAM	4500	4940
			QPSK	4520	5060
	20525	836.50	16QAM	4480	4960
			QPSK	4540	5000
	20625	846.50	16QAM	4500	4860
			QPSK	4520	5060
10MHz	20450	829.00	16QAM	9120	10160
			QPSK	9120	10280
	20525	836.50	16QAM	9120	10000
			QPSK	9120	10440
	20600	844.00	16QAM	9080	10080
			QPSK	9080	10040

LTE Band 7					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
5MHz	20775	2502.5	16QAM	4500	4900
			QPSK	4500	5080
	21100	2535.0	16QAM	4500	4920
			QPSK	4540	5040
	21425	2567.5	16QAM	4520	4900
			QPSK	4540	5100
10MHz	20800	2505.0	16QAM	9160	10120
			QPSK	9120	10240
	21100	2535.0	16QAM	9160	10160
			QPSK	9120	10360
	21400	2565.0	16QAM	9080	10240
			QPSK	9120	10200
15MHz	20825	2507.5	16QAM	13620	14820
			QPSK	13560	14880
	21100	2535.0	16QAM	13500	14640
			QPSK	13500	14820
	21375	2562.5	16QAM	13500	14640
			QPSK	13560	15120
20MHz	20850	2510.0	16QAM	18000	19520
			QPSK	18000	19520
	21100	2535.0	16QAM	17920	19120
			QPSK	18000	19680
	21350	2560.0	16QAM	17920	19520
			QPSK	18160	19520



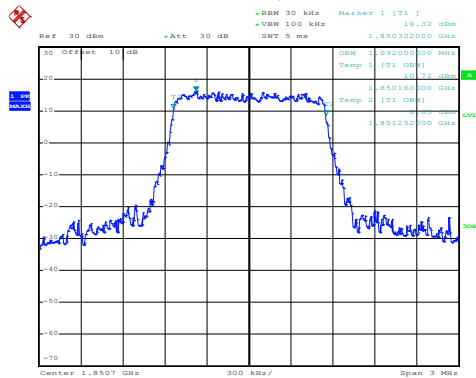
LTE Band 12					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	23017	699.7	16QAM	1092	1260
			QPSK	1104	1254
	23095	707.5	16QAM	1092	1248
			QPSK	1092	1284
	23173	715.3	16QAM	1092	1260
			QPSK	1092	1290
3MHz	23025	700.5	16QAM	2712	2940
			QPSK	2712	2988
	23095	707.5	16QAM	2724	2964
			QPSK	2724	2976
	23165	714.5	16QAM	2712	2940
			QPSK	2724	2976
5MHz	23035	701.5	16QAM	4520	4880
			QPSK	4520	5020
	23095	707.5	16QAM	4500	4860
			QPSK	4520	5120
	23155	713.5	16QAM	4500	4960
			QPSK	4540	4980
10MHz	23060	704.0	16QAM	9080	10040
			QPSK	9040	10200
	23095	707.5	16QAM	9080	10080
			QPSK	9080	10240
	23130	711.0	16QAM	9120	10200
			QPSK	9120	10360

LTE Band 17					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
5MHz	23755	706.5	16QAM	4500	4860
			QPSK	4540	5120
	23790	710.0	16QAM	4520	4820
			QPSK	4540	5120
	23825	713.5	16QAM	4500	4840
			QPSK	4500	5040
10MHz	23780	709.0	16QAM	9120	10080
			QPSK	9160	10320
	23790	710.0	16QAM	9120	10080
			QPSK	9200	10360
	23130	711.0	16QAM	9120	10040
			QPSK	9120	10440

Test plot as follows:  
LTE Band 2 part:

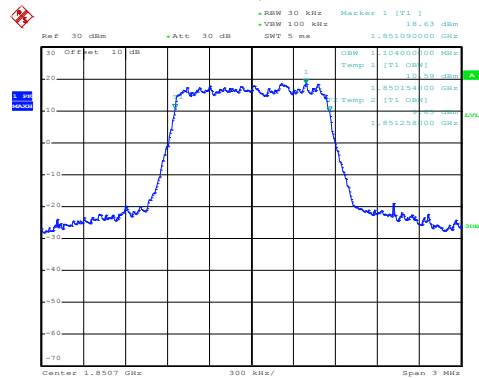
LTE Band 2: 99% Occupancy bandwidth  
BW: 1.4MHz

16QAM



Date: 29.JUL.2020 11:03:56

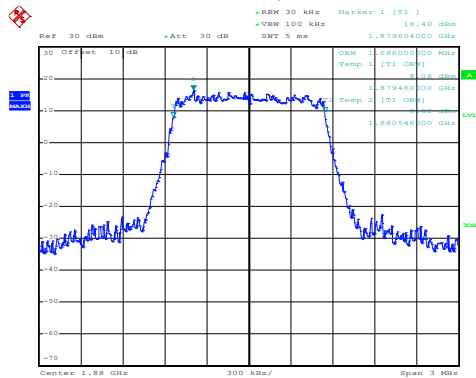
QPSK



Date: 29.JUL.2020 11:03:46

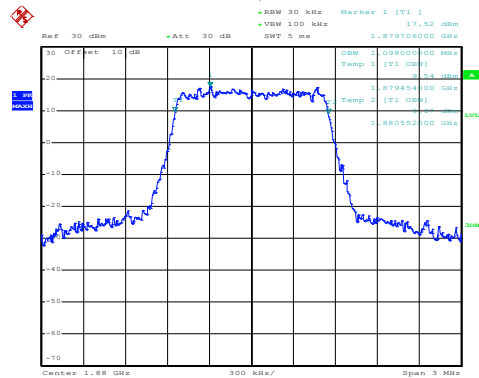
Lowest channel

16QAM



Date: 29.JUL.2020 11:05:13

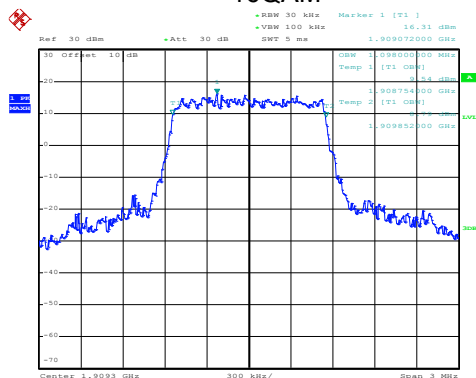
QPSK



Date: 29.JUL.2020 11:05:08

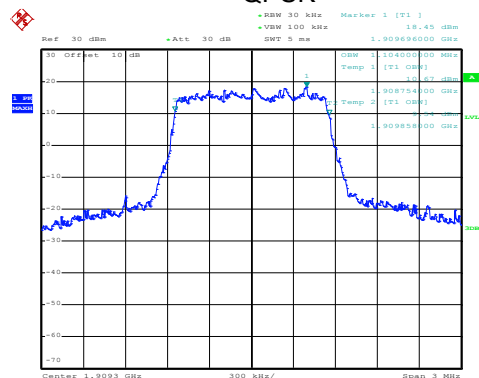
Middle channel

16QAM



Date: 29.JUL.2020 11:09:14

QPSK

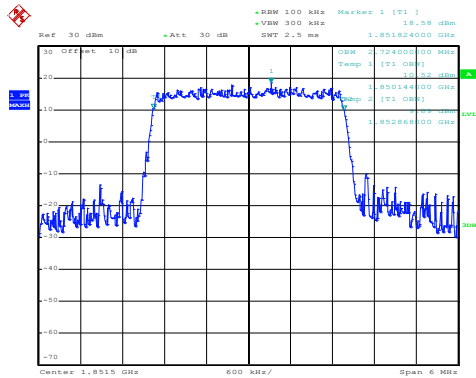


Date: 29.JUL.2020 11:09:11

Highest channel

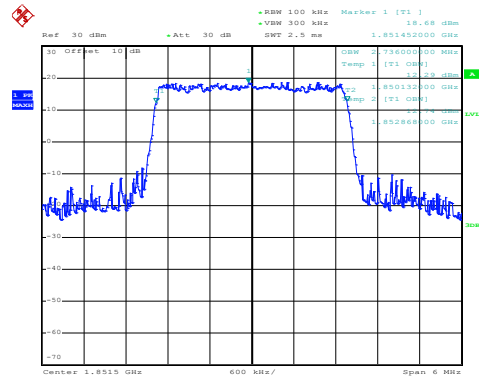
LTE Band 2: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:15:07

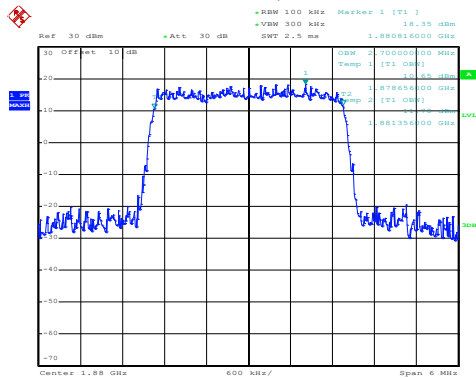
## QPSK



Date: 29.JUL.2020 11:15:04

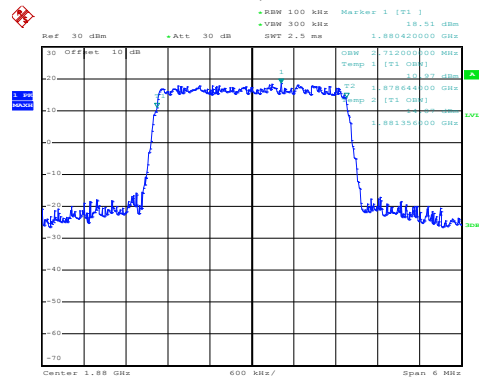
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:15:19

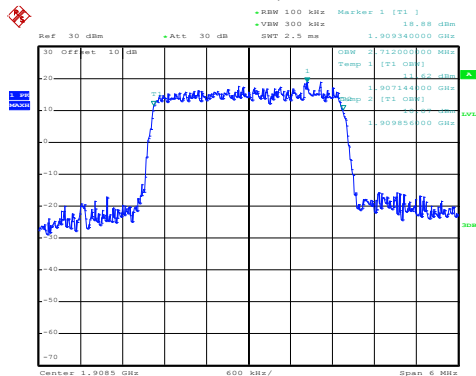
## QPSK



Date: 29.JUL.2020 11:15:15

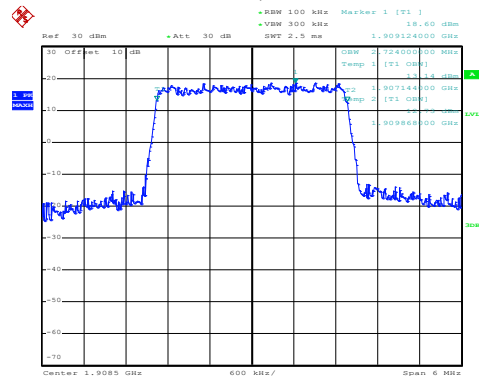
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:16:06

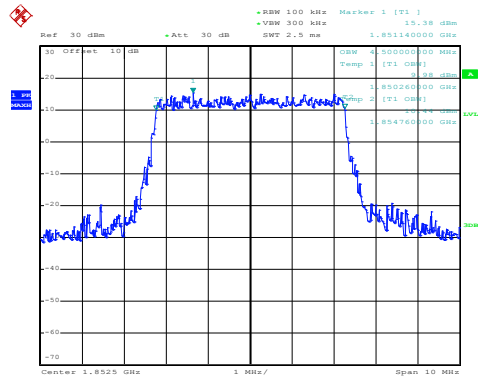
## QPSK



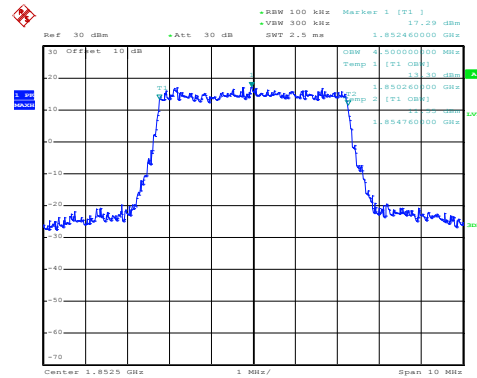
Date: 29.JUL.2020 11:16:03

## Highest channel

QPSK



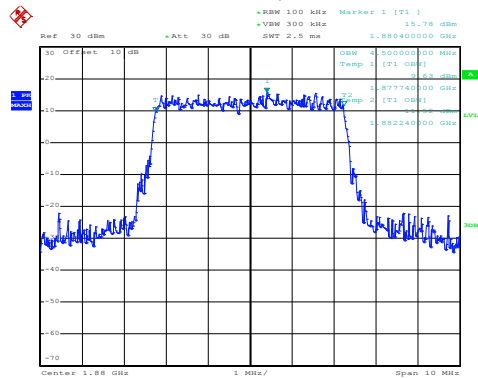
Date: 29.JUL.2020 11:16:38



Date: 29.JUL.2020 11:16:35

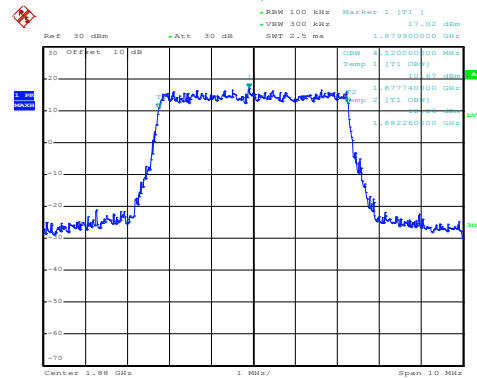
Lowest channel

16QAM



Date: 29.JUL.2020 11:17:09

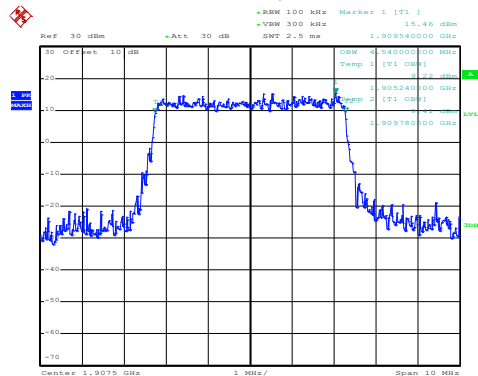
QPSK



Date: 29.JUL.2020 11:17:06

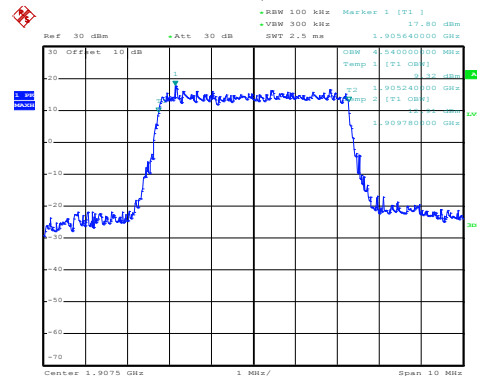
Middle channel

16QAM



Date: 29.JUL.2020 11:17:36

QPSK

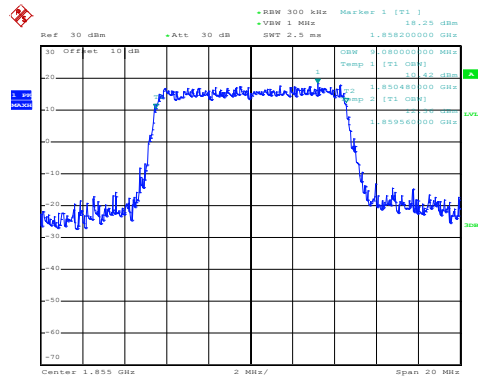


Date: 29.JUL.2020 11:17:33

Highest channel

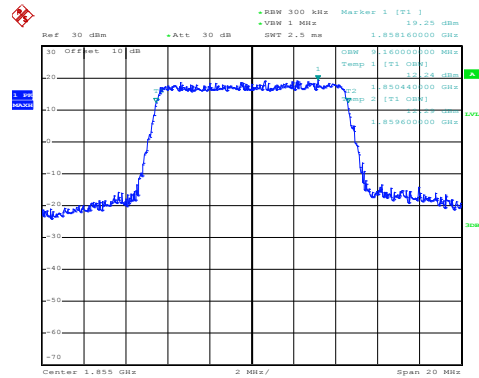
LTE Band 2: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:18:25

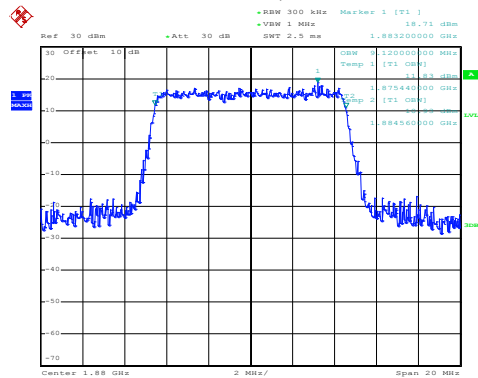
## QPSK



Date: 29.JUL.2020 11:18:21

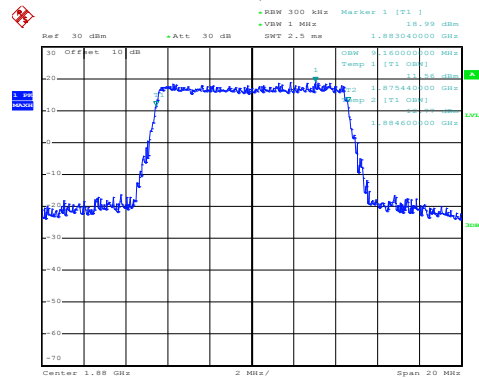
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:18:36

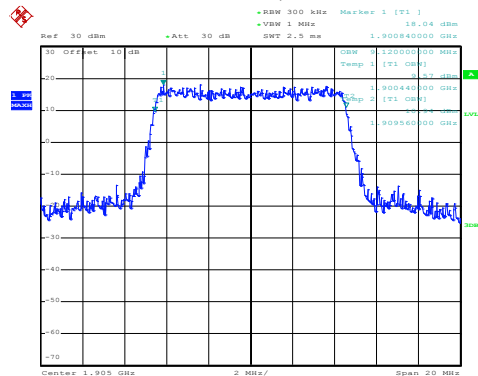
## QPSK



Date: 29.JUL.2020 11:18:33

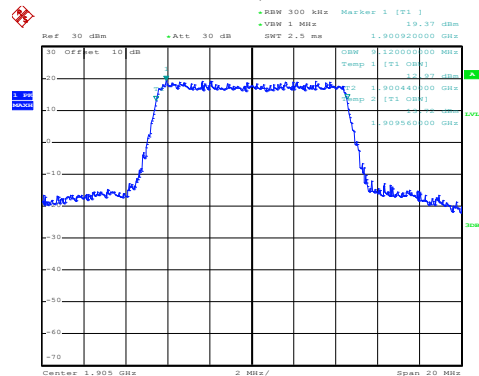
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:19:12

## QPSK

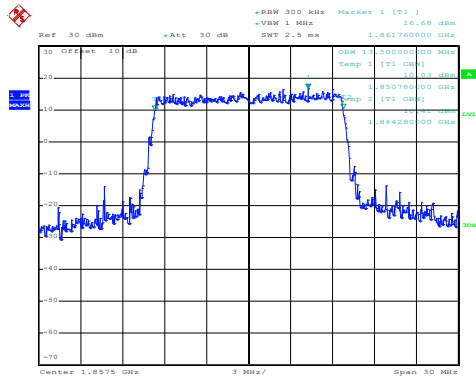


Date: 29.JUL.2020 11:19:08

## Highest channel

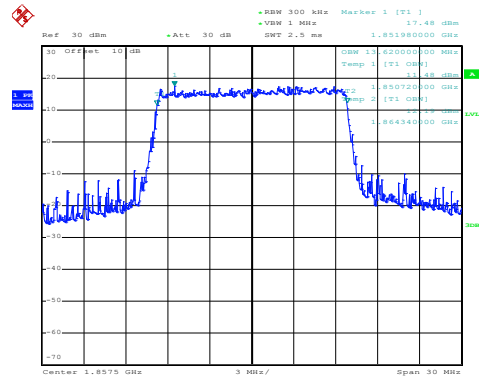
LTE Band 2: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 29.JUL.2020 11:19:33

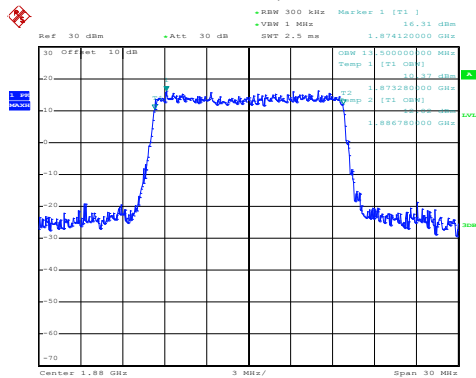
## QPSK



Date: 29.JUL.2020 11:19:30

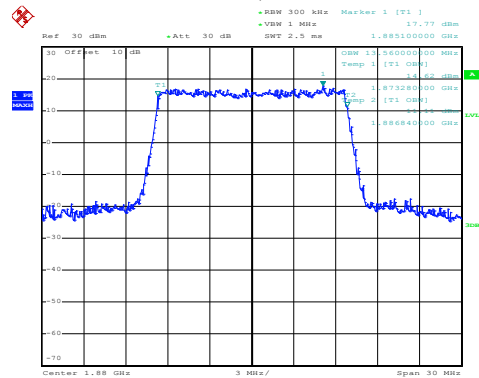
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:20:05

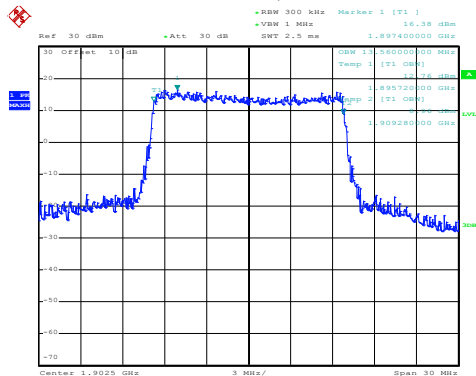
## QPSK



Date: 29.JUL.2020 11:20:02

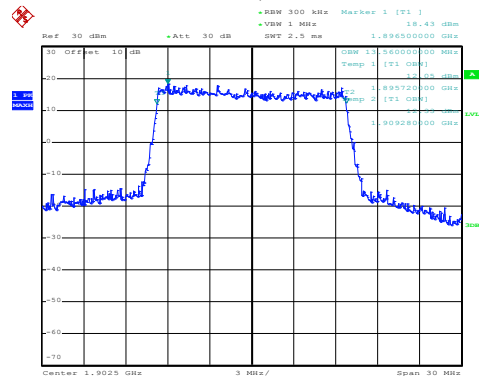
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:20:20

## QPSK

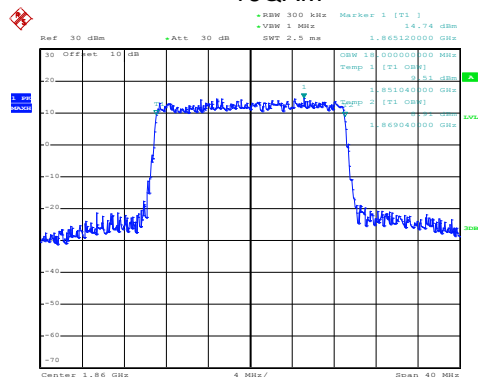


Date: 29.JUL.2020 11:20:16

## Highest channel

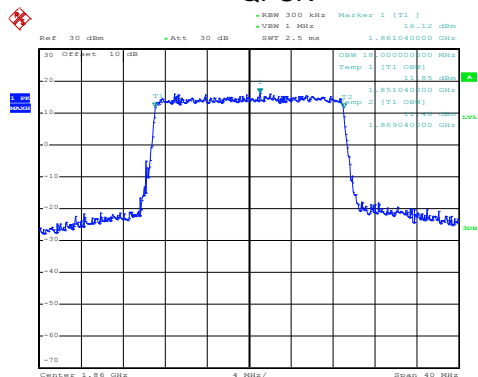
LTE Band 2: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 29.JUL.2020 11:21:05

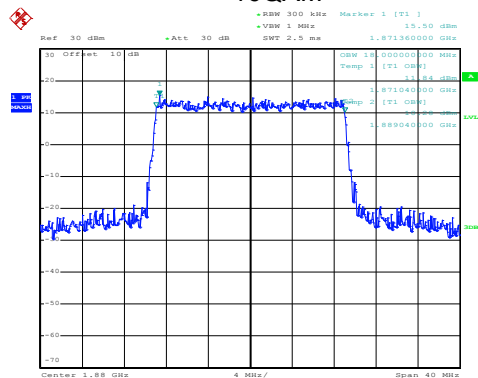
## QPSK



Date: 29.JUL.2020 11:21:02

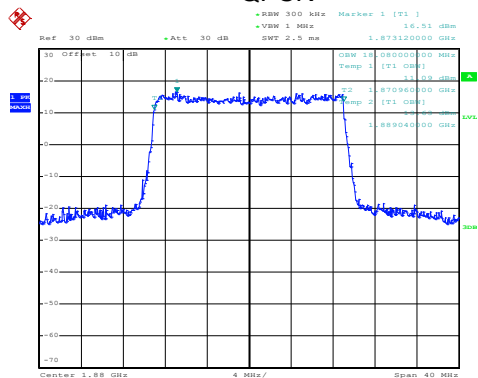
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:21:18

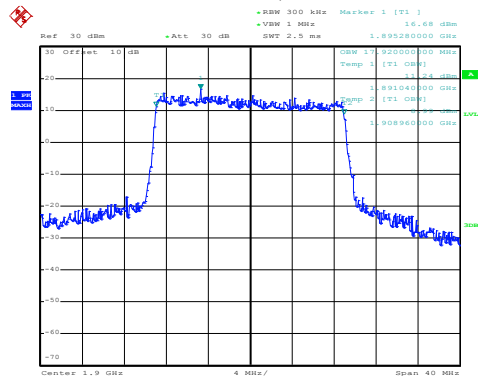
## QPSK



Date: 29.JUL.2020 11:21:15

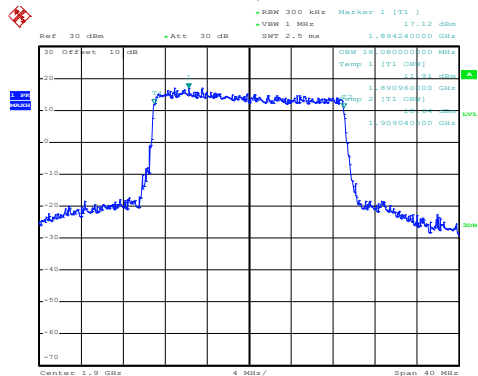
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:21:48

## QPSK

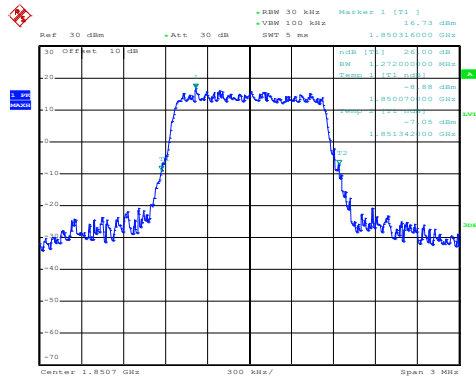


Date: 29.JUL.2020 11:21:45

## Highest channel

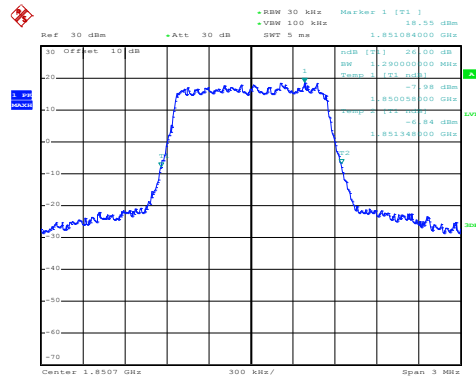
LTE Band 2: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 29.JUL.2020 11:04:13

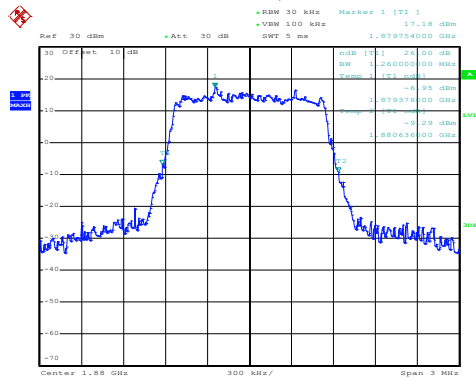
## QPSK



Date: 29.JUL.2020 11:04:10

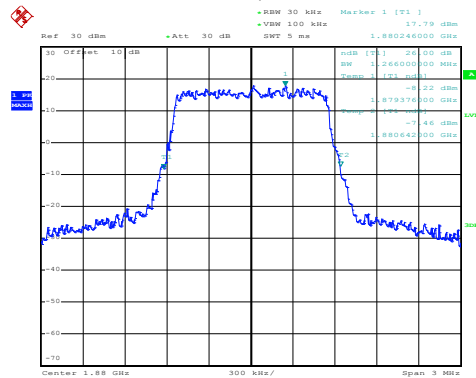
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:05:01

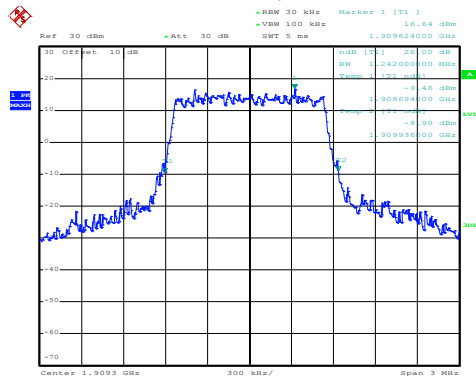
## QPSK



Date: 29.JUL.2020 11:04:56

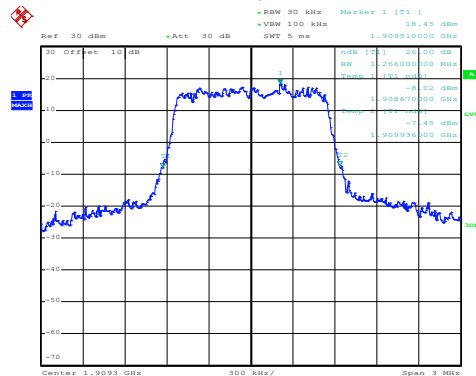
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:09:24

## QPSK



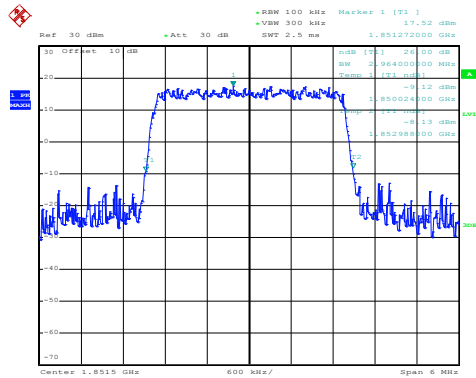
Date: 29.JUL.2020 11:09:20

## Highest channel



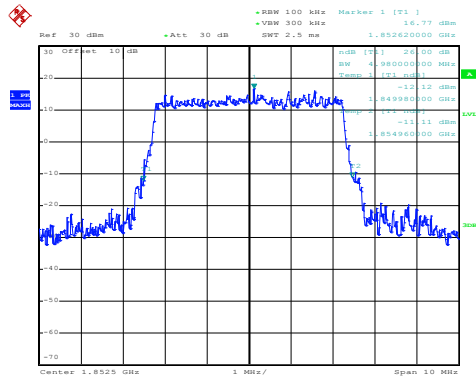
LTE Band 2: -26dBc bandwidth  
BW: 3MHz

## 16QAM



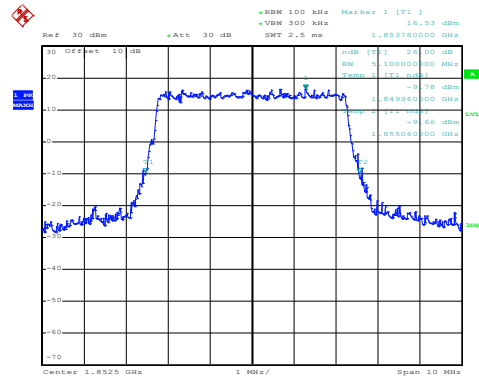
LTE Band 2: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:16:48

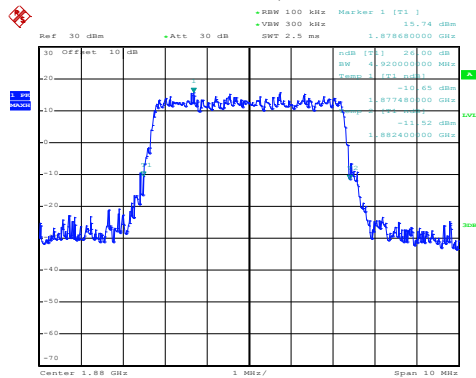
## QPSK



Date: 29.JUL.2020 11:16:45

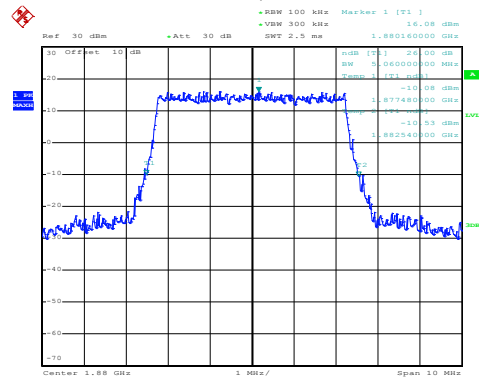
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:16:59

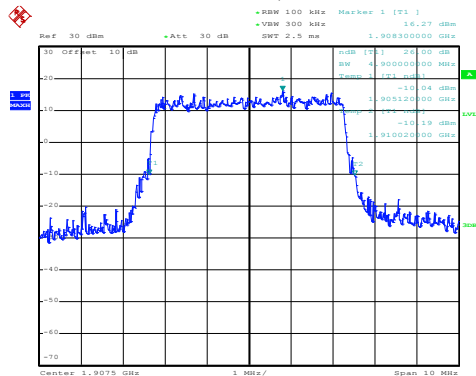
## QPSK



Date: 29.JUL.2020 11:16:56

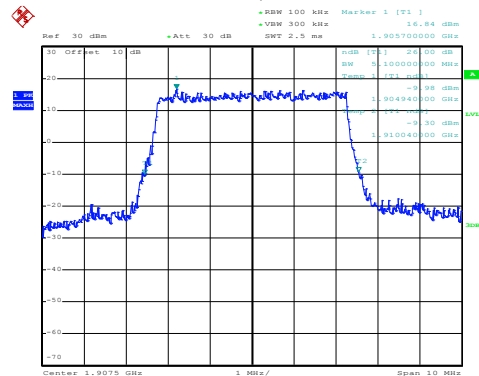
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:17:46

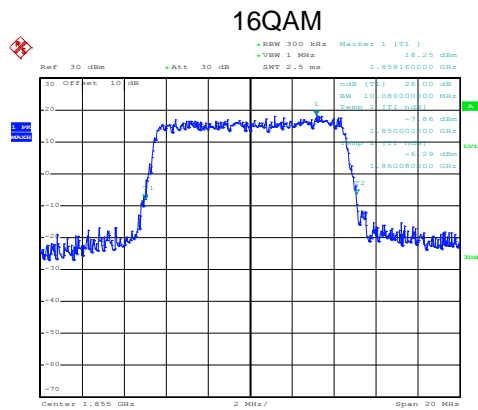
## QPSK



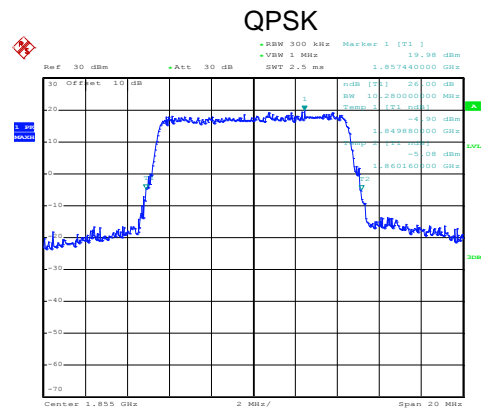
Date: 29.JUL.2020 11:17:43

## Highest channel

LTE Band 2: -26dBc bandwidth  
BW: 10MHz

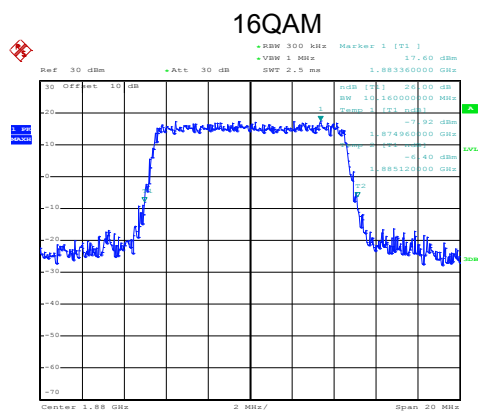


Date: 29.JUL.2020 11:18:15

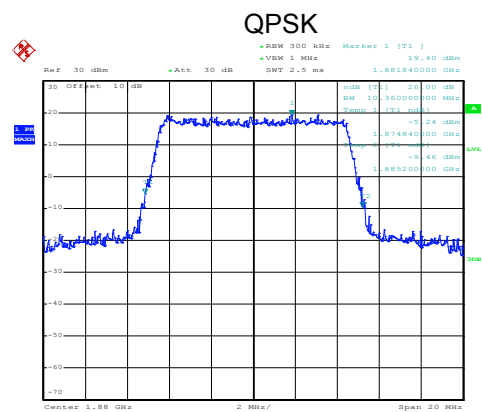


Date: 29.JUL.2020 11:18:11

Lowest channel

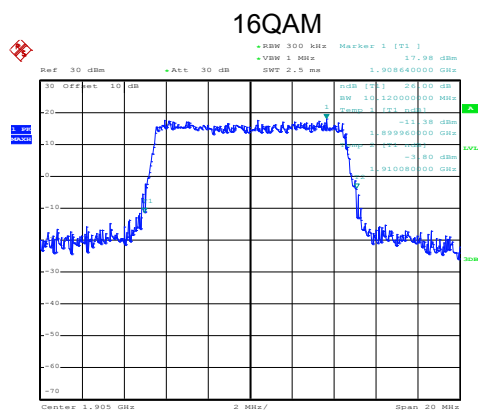


Date: 29.JUL.2020 11:18:46

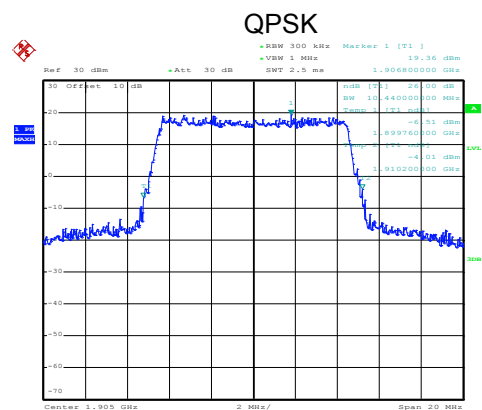


Date: 29.JUL.2020 11:18:42

Middle channel



Date: 29.JUL.2020 11:18:58

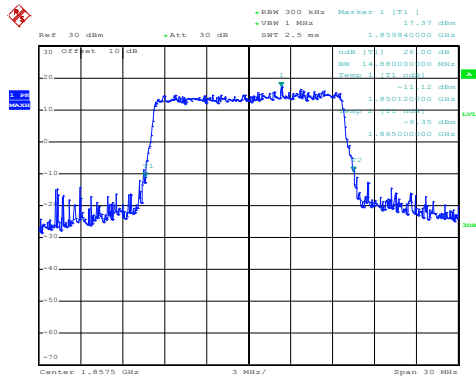


Date: 29.JUL.2020 11:18:55

## Highest channel

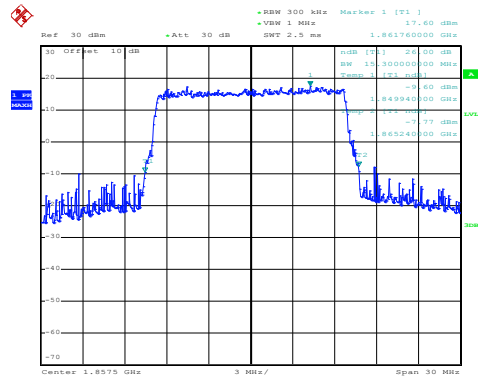
LTE Band 2: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 29.JUL.2020 11:19:44

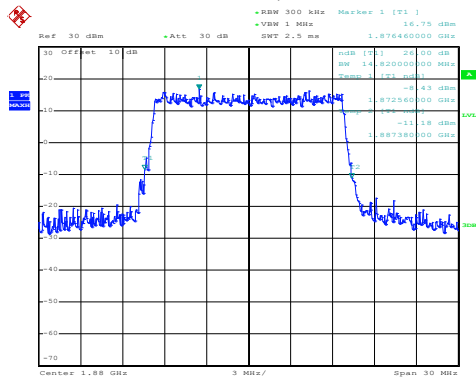
## QPSK



Date: 29.JUL.2020 11:19:40

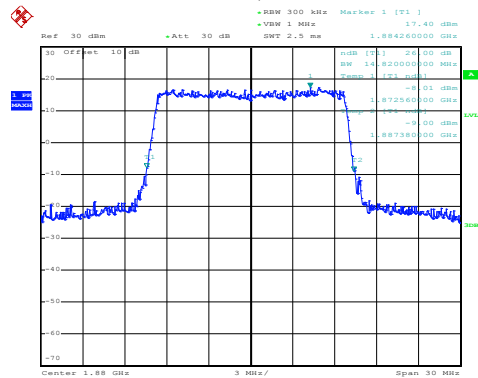
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:19:55

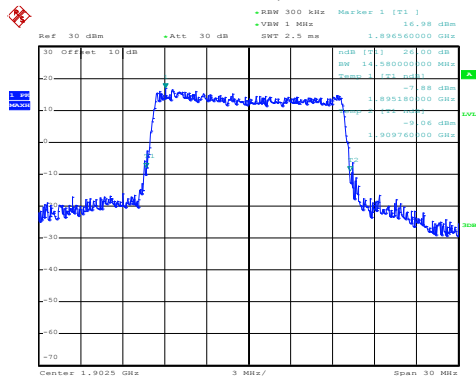
## QPSK



Date: 29.JUL.2020 11:19:52

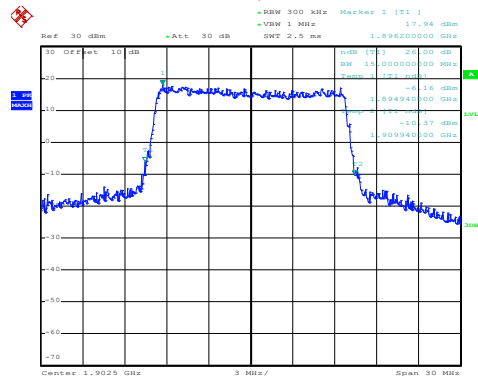
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:20:30

## QPSK

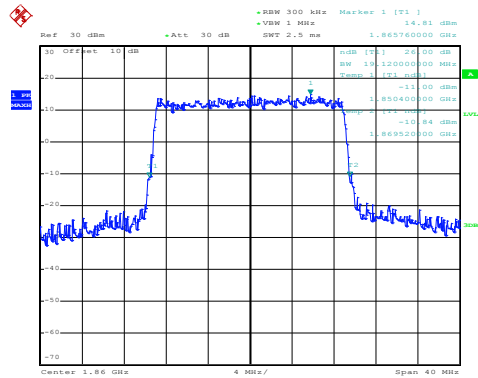


Date: 29.JUL.2020 11:20:27

## Highest channel

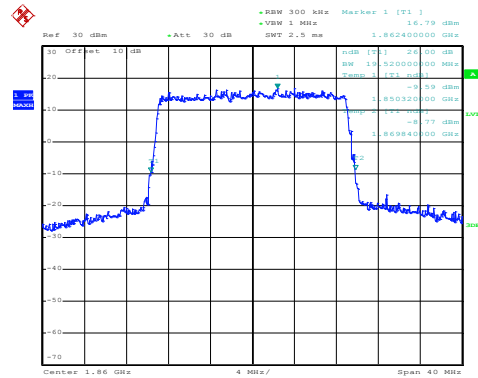
LTE Band 2: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 29.JUL.2020 11:20:55

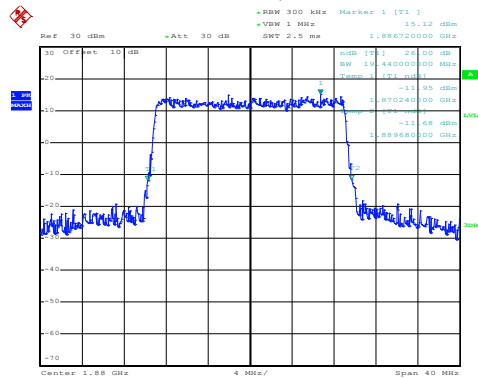
## QPSK



Date: 29.JUL.2020 11:20:52

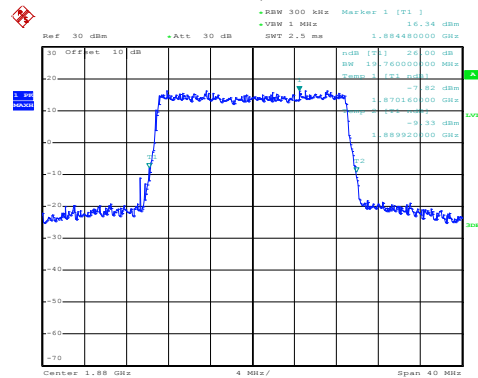
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:21:27

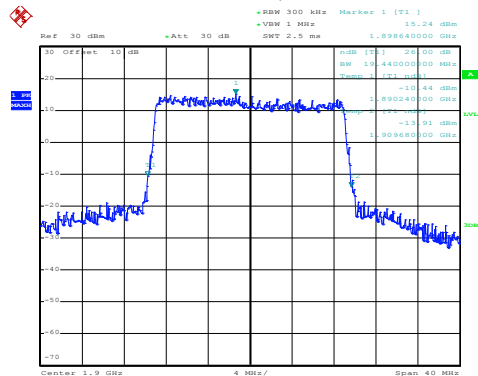
## QPSK



Date: 29.JUL.2020 11:21:24

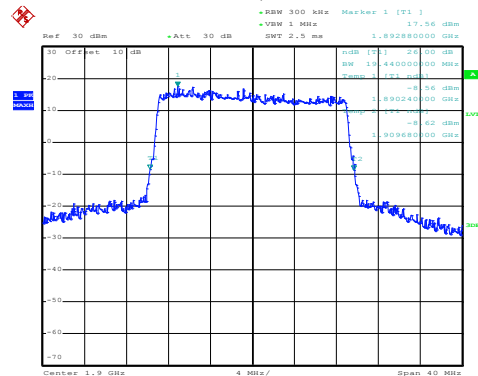
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:21:39

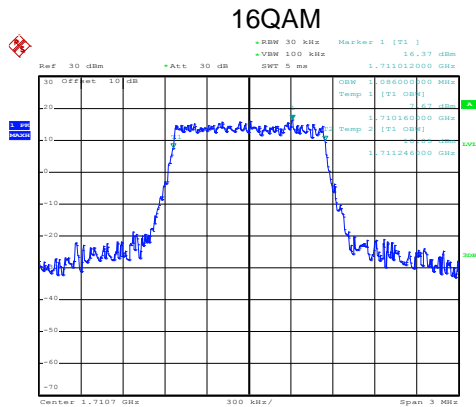
## QPSK



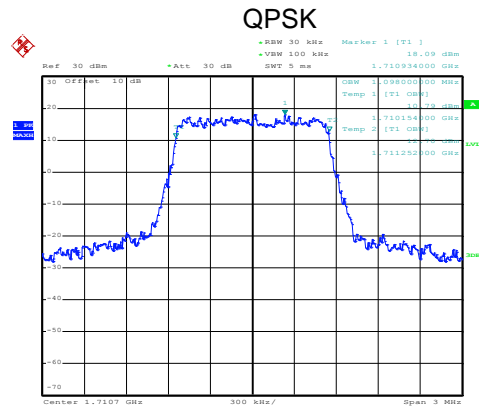
Date: 29.JUL.2020 11:21:36

## Highest channel

## LTE Band 4 part:

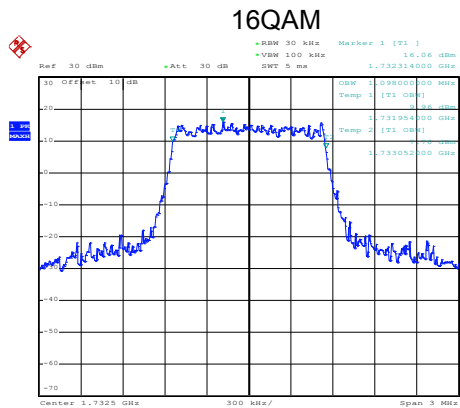
LTE Band 4: 99% Occupancy bandwidth  
BW: 1.4MHz

Date: 29.JUL.2020 11:30:49

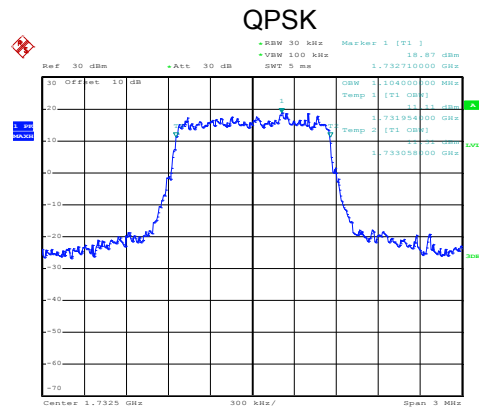


Date: 29.JUL.2020 11:30:46

## Lowest channel

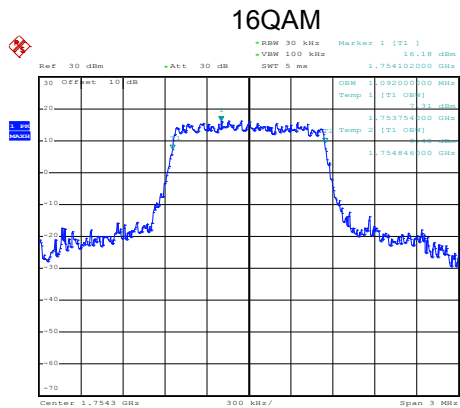


Date: 29.JUL.2020 11:31:01

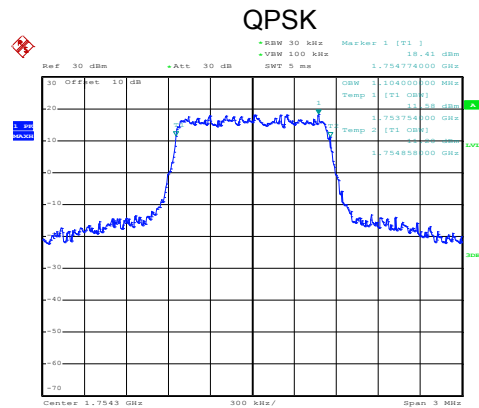


Date: 29.JUL.2020 11:30:58

## Middle channel



Date: 29.JUL.2020 11:32:21

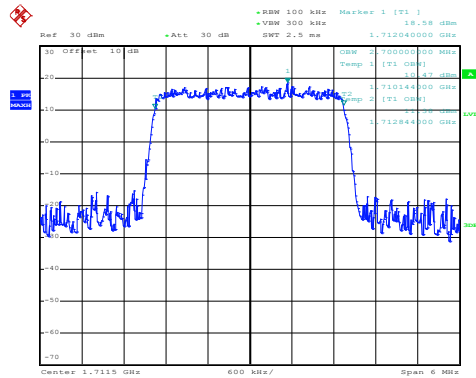


Date: 29.JUL.2020 11:32:17

## Highest channel

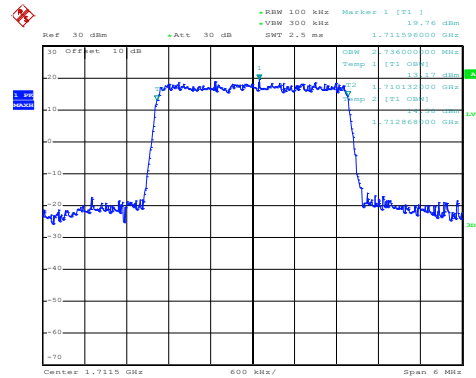
LTE Band 4: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:29:17

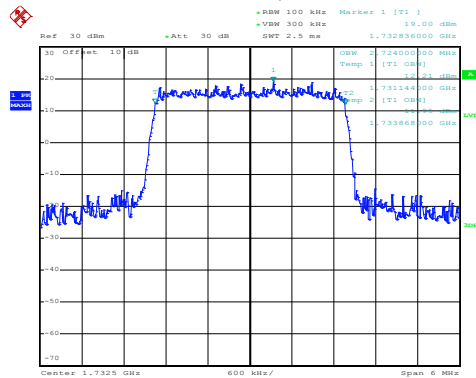
## QPSK



Date: 29.JUL.2020 11:29:14

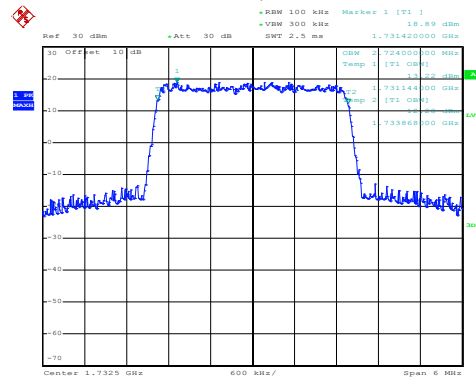
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:29:50

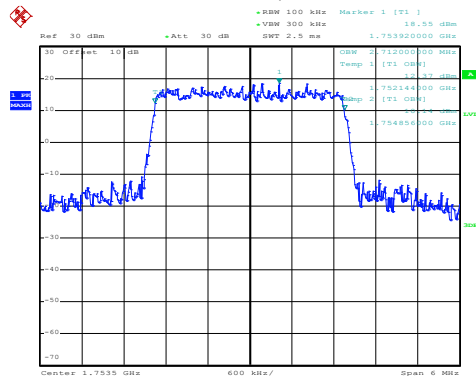
## QPSK



Date: 29.JUL.2020 11:29:46

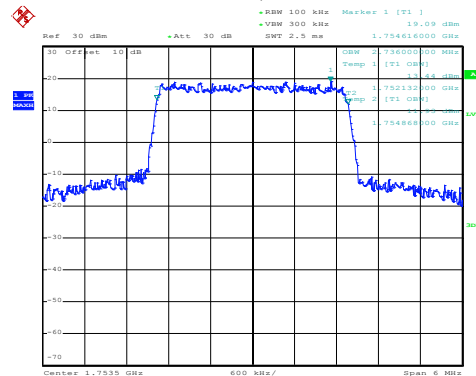
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:30:04

## QPSK

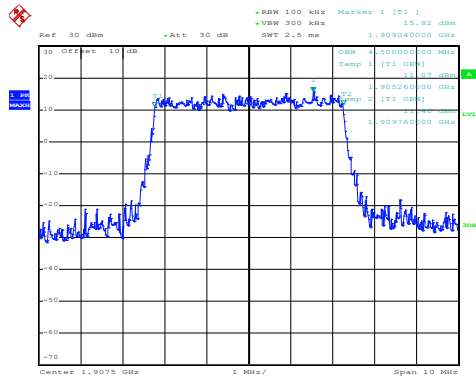


Date: 29.JUL.2020 11:30:01

## Highest channel

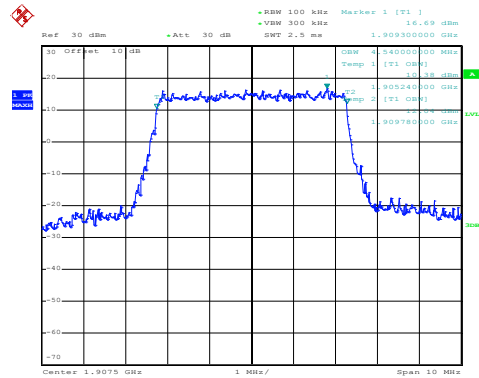
LTE Band 4: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:27:14

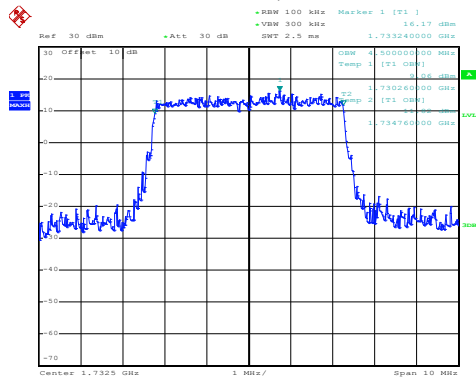
## QPSK



Date: 29.JUL.2020 11:27:11

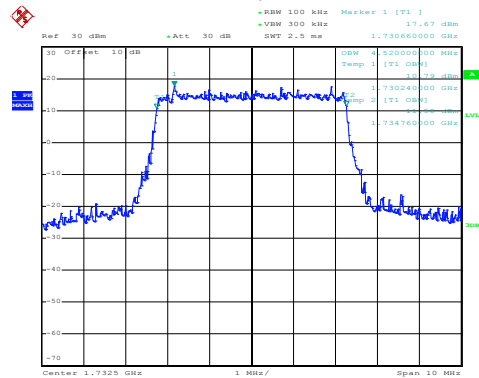
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:27:27

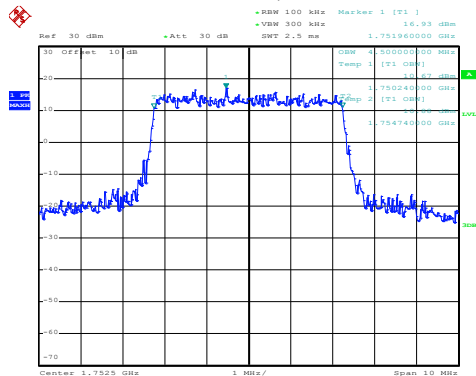
## QPSK



Date: 29.JUL.2020 11:27:24

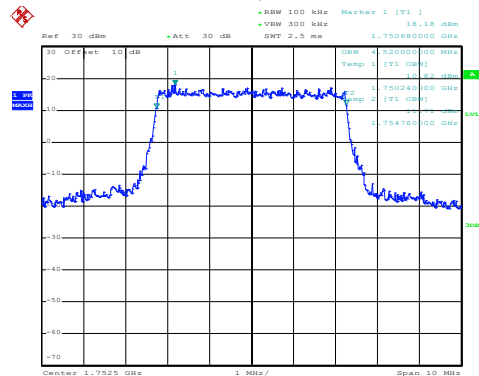
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:28:25

## QPSK



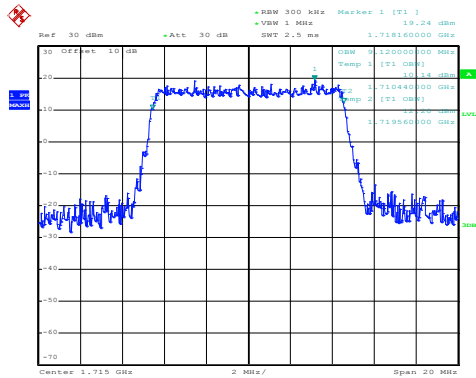
Date: 29.JUL.2020 11:28:55

## Highest channel



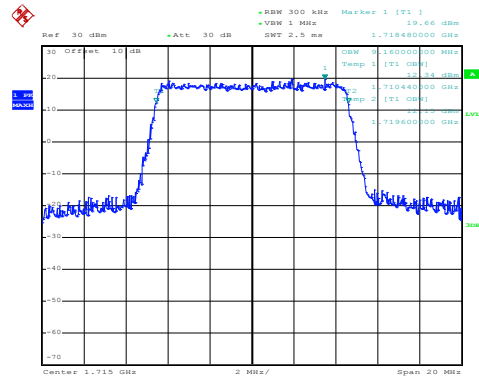
LTE Band 4: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:24:53

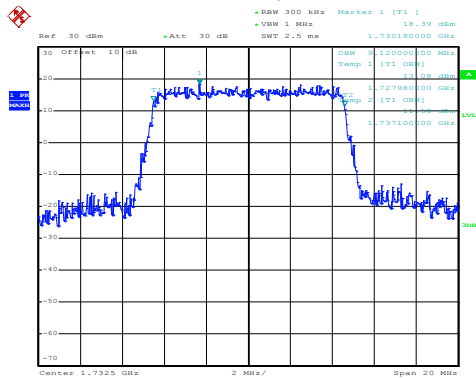
## QPSK



Date: 29.JUL.2020 11:24:49

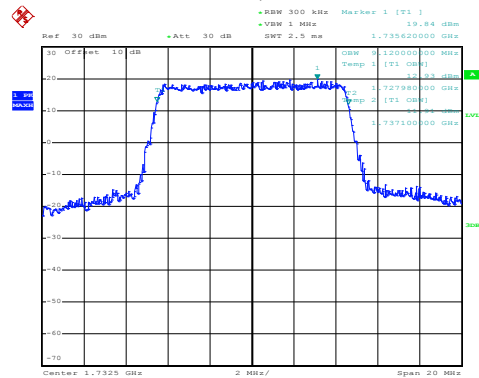
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:25:28

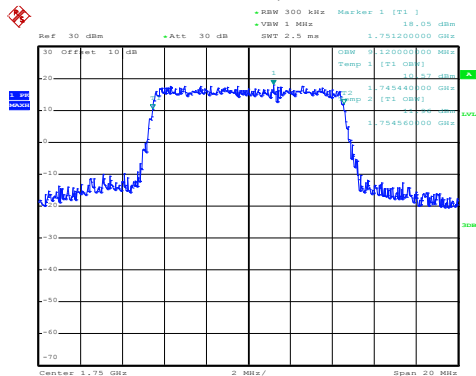
## QPSK



Date: 29.JUL.2020 11:25:25

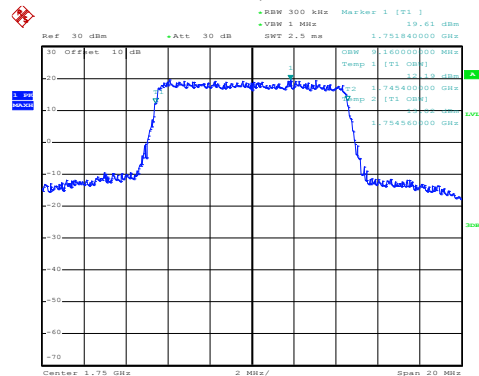
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:25:48

## QPSK

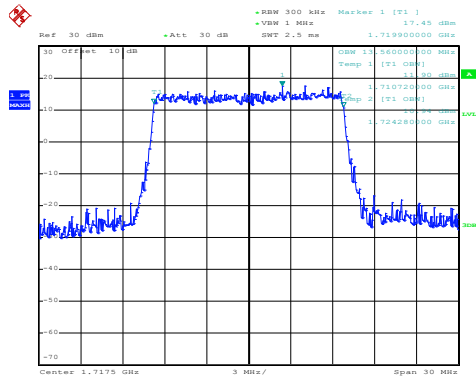


Date: 29.JUL.2020 11:25:44

## Highest channel

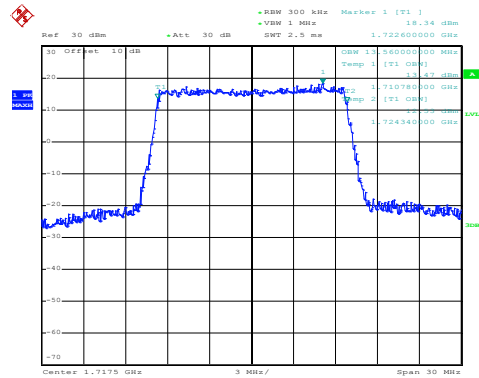
LTE Band 4: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 29.JUL.2020 11:23:38

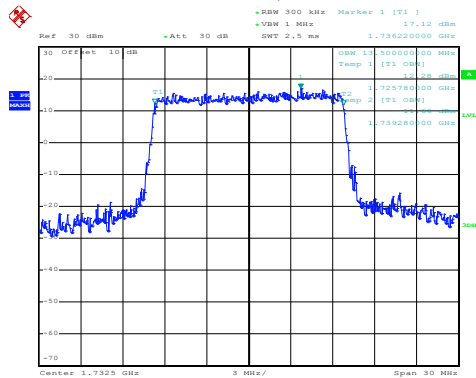
## QPSK



Date: 29.JUL.2020 11:23:35

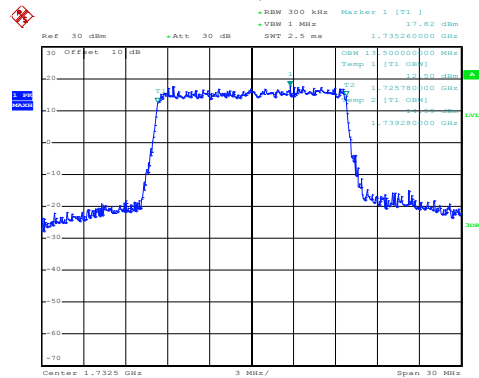
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:23:51

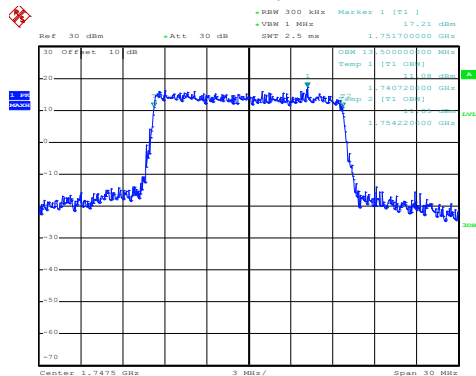
## QPSK



Date: 29.JUL.2020 11:23:48

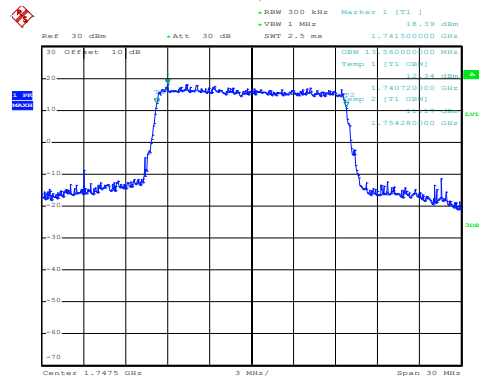
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:24:29

## QPSK

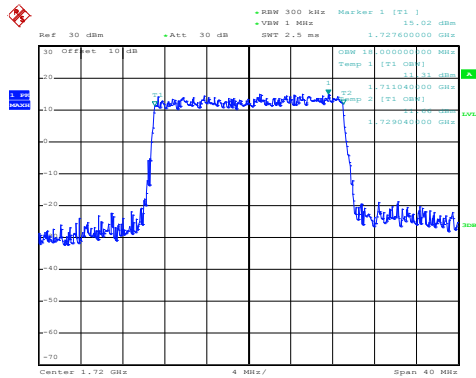


Date: 29.JUL.2020 11:24:26

## Highest channel

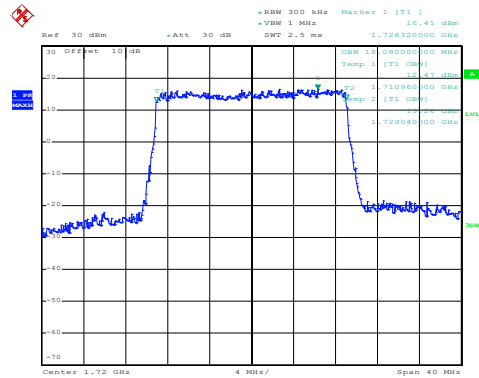
LTE Band 4: 99% Occupancy bandwidth  
BW: 20MHz

## 16QAM



Date: 29.JUL.2020 11:22:05

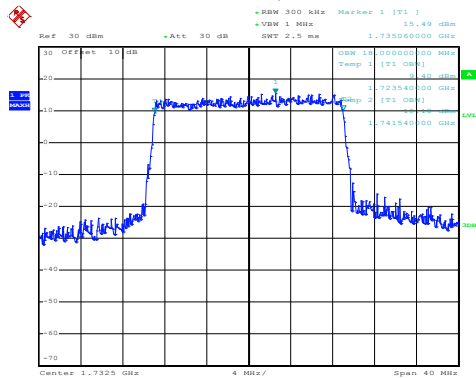
## QPSK



Date: 29.JUL.2020 11:22:02

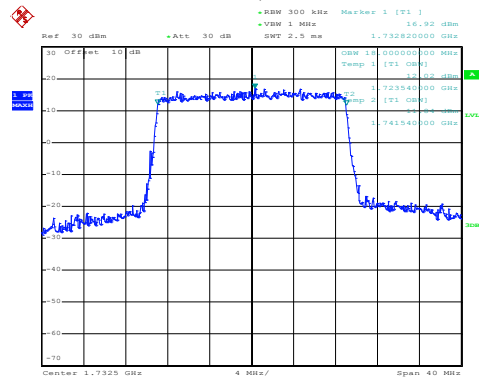
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:22:36

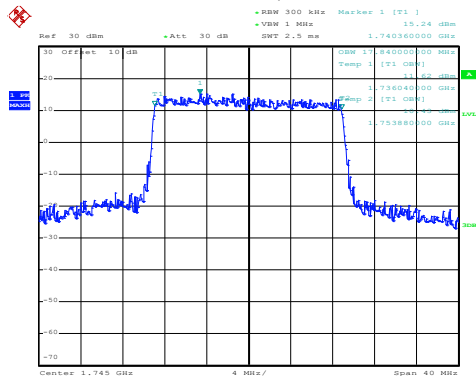
## QPSK



Date: 29.JUL.2020 11:22:33

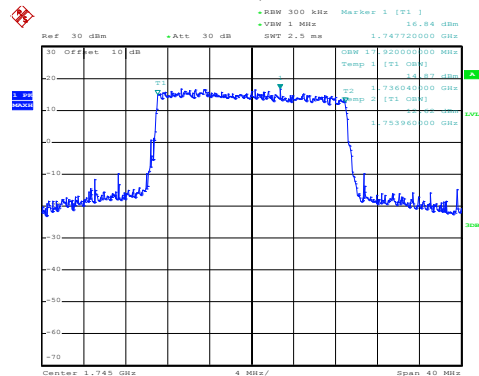
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:22:50

## QPSK

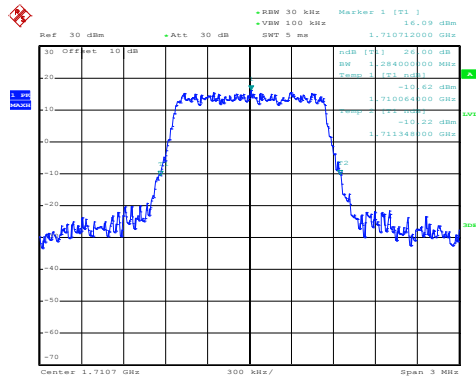


Date: 29.JUL.2020 11:22:47

## Highest channel

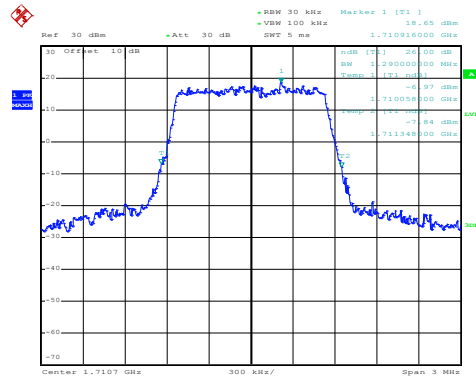
LTE Band 4: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 29.JUL.2020 11:30:39

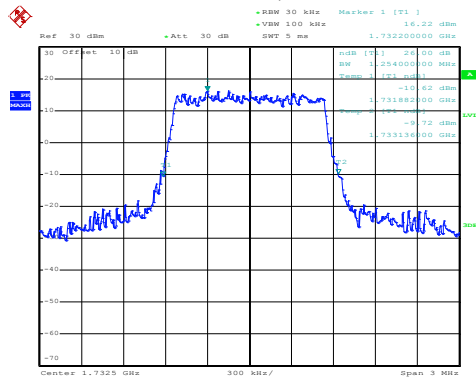
## QPSK



Date: 29.JUL.2020 11:30:36

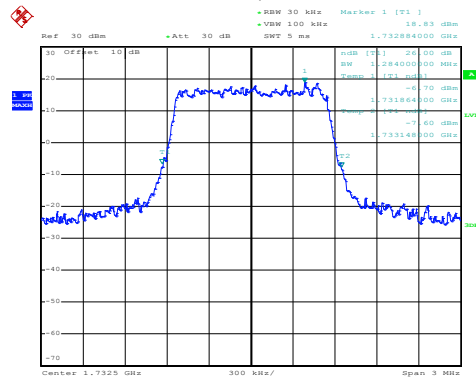
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:31:31

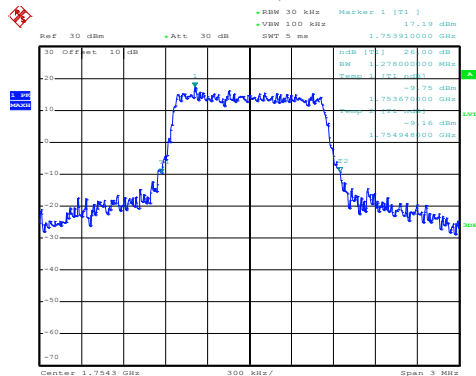
## QPSK



Date: 29.JUL.2020 11:31:28

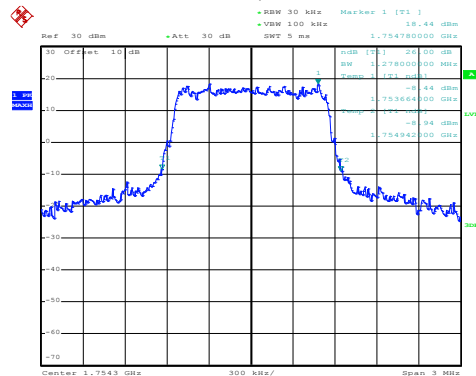
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:32:10

## QPSK

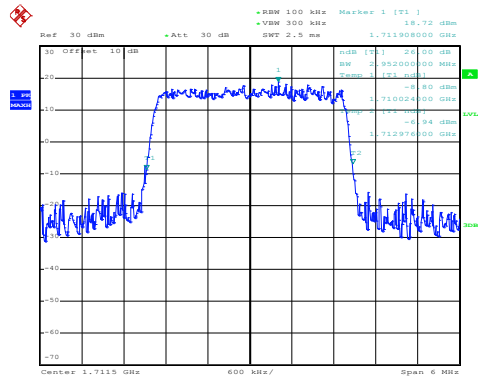


Date: 29.JUL.2020 11:32:06

## Highest channel

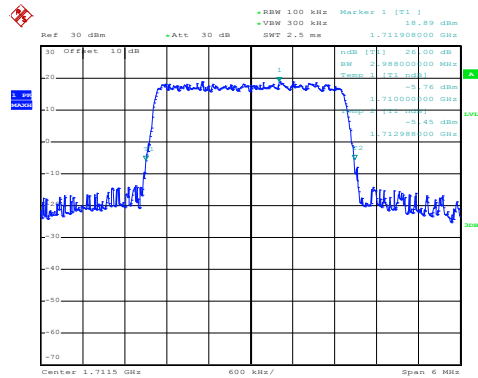
LTE Band 4: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:29:28

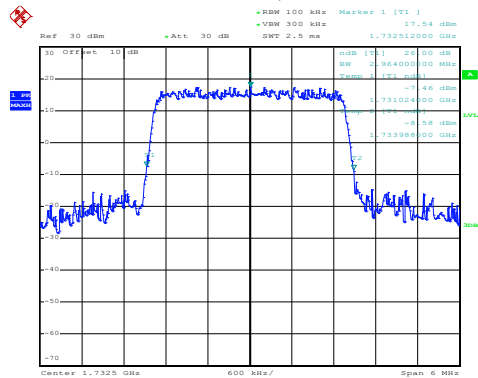
## QPSK



Date: 29.JUL.2020 11:29:25

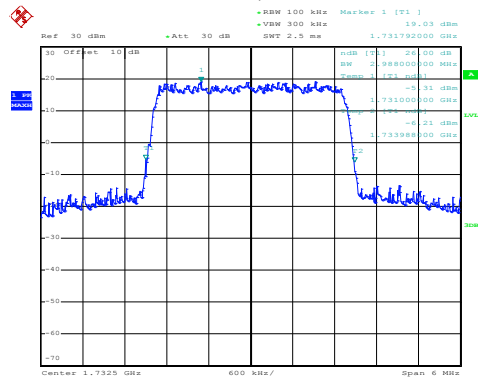
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:29:40

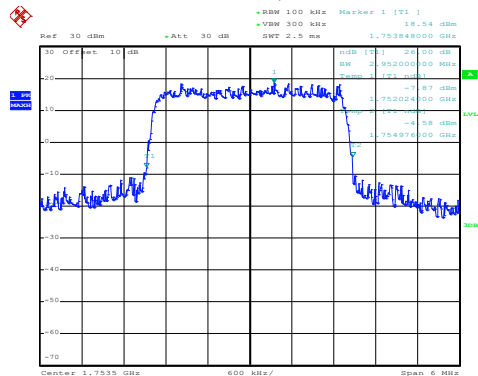
## QPSK



Date: 29.JUL.2020 11:29:37

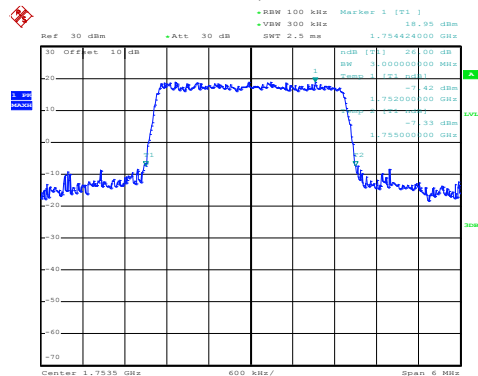
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:30:15

## QPSK

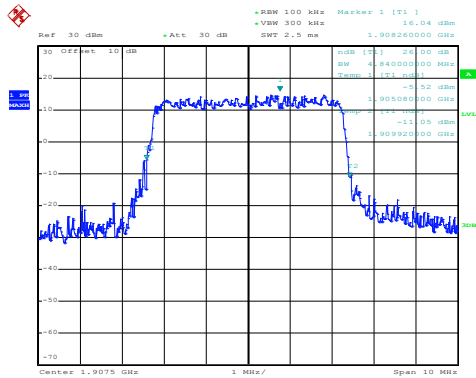


Date: 29.JUL.2020 11:30:11

## Highest channel

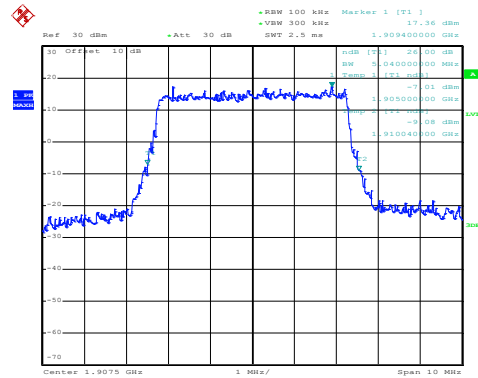
LTE Band 4: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:27:04

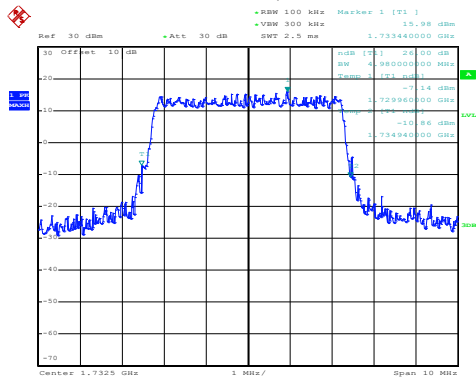
## QPSK



Date: 29.JUL.2020 11:27:01

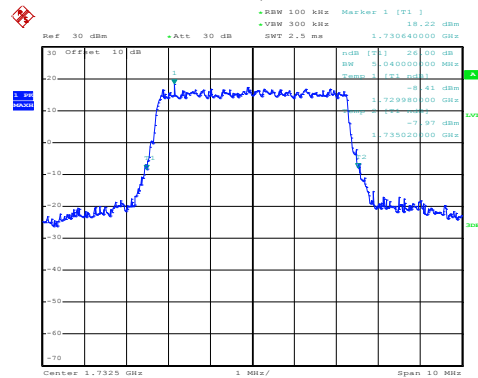
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:27:40

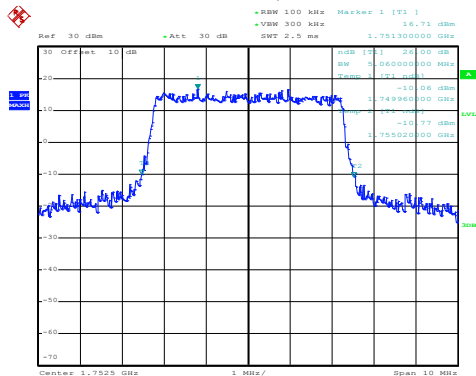
## QPSK



Date: 29.JUL.2020 11:27:37

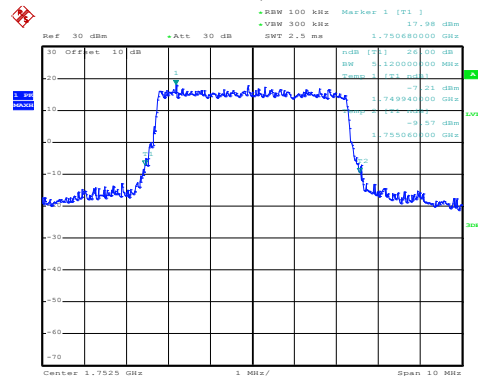
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:28:44

## QPSK

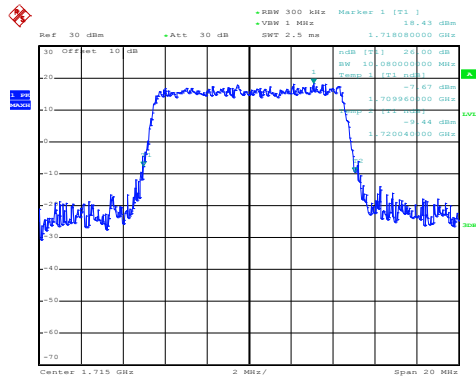


Date: 29.JUL.2020 11:28:38

## Highest channel

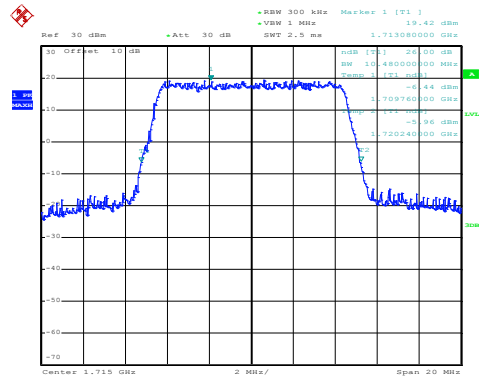
LTE Band 4: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:25:05

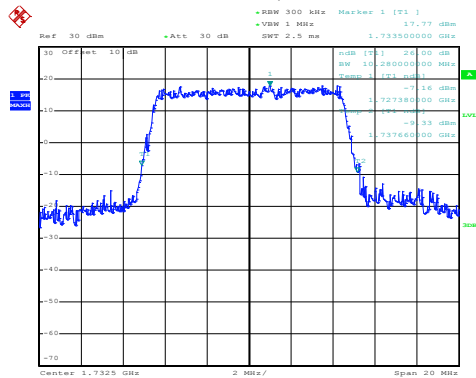
## QPSK



Date: 29.JUL.2020 11:25:01

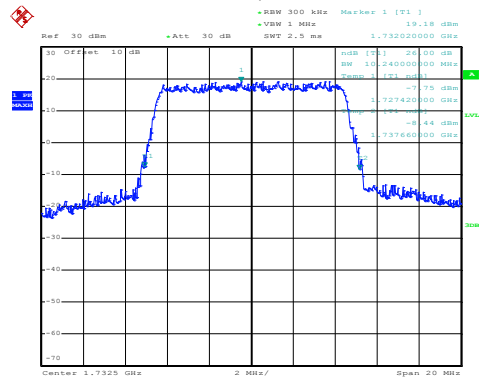
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:25:18

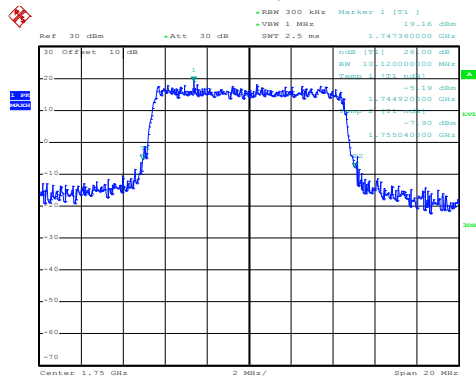
## QPSK



Date: 29.JUL.2020 11:25:15

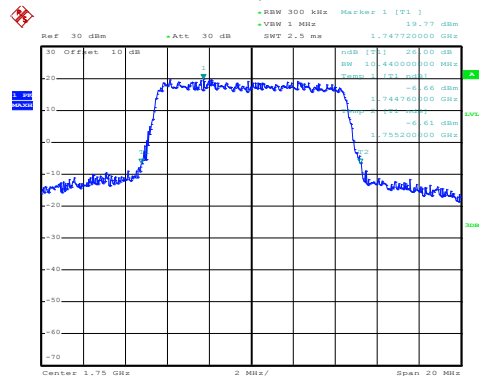
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:25:58

## QPSK

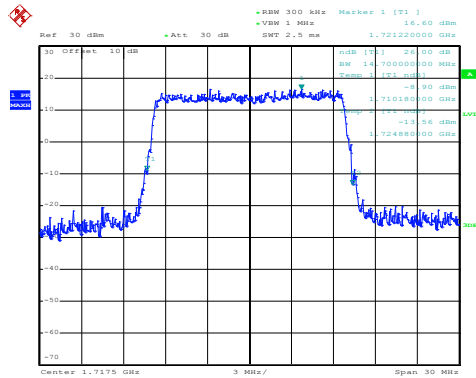


Date: 29.JUL.2020 11:25:54

## Highest channel

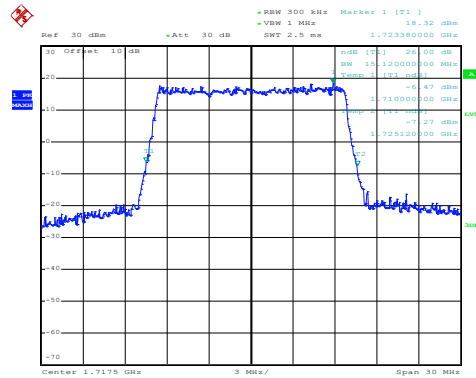
LTE Band 4: -26dBc bandwidth  
BW: 15MHz

## 16QAM



Date: 29.JUL.2020 11:23:28

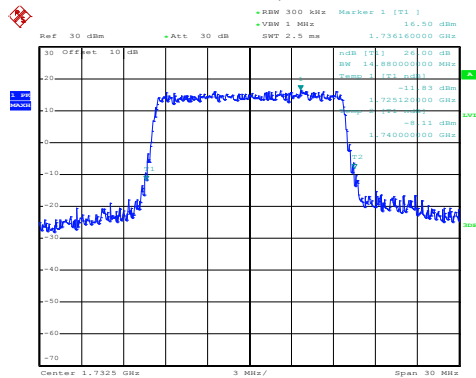
## QPSK



Date: 29.JUL.2020 11:23:25

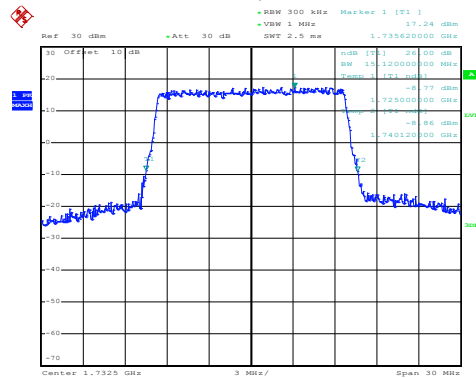
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:24:01

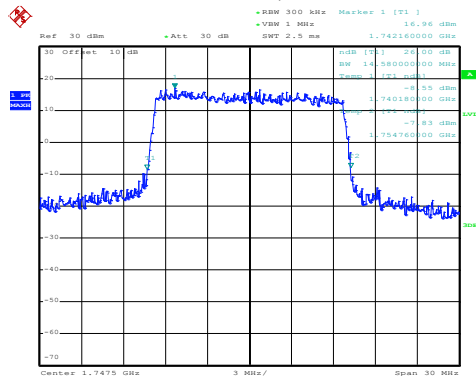
## QPSK



Date: 29.JUL.2020 11:23:57

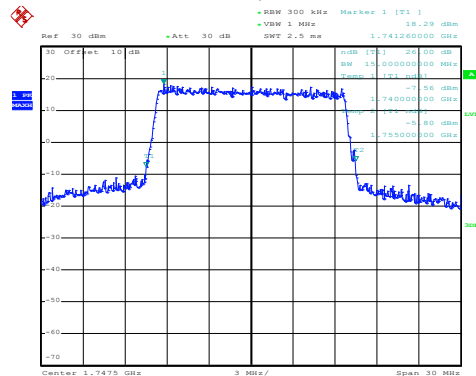
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:24:18

## QPSK

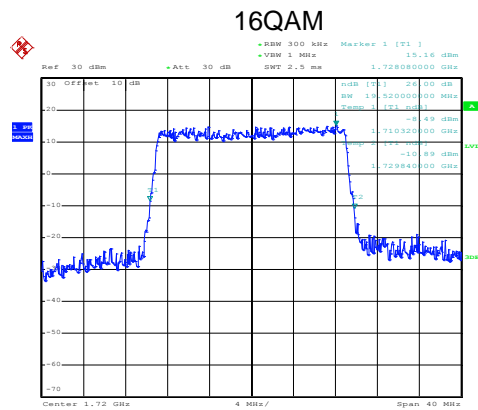


Date: 29.JUL.2020 11:24:15

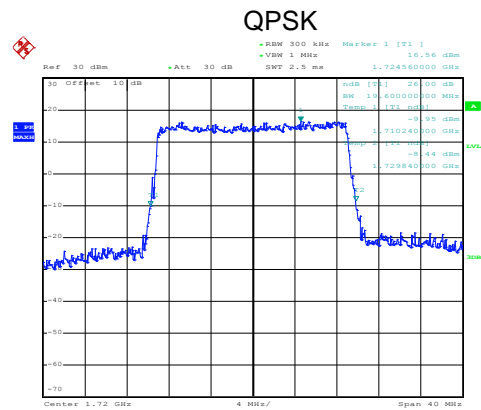
## Highest channel



LTE Band 4: -26dBc bandwidth  
BW: 20MHz

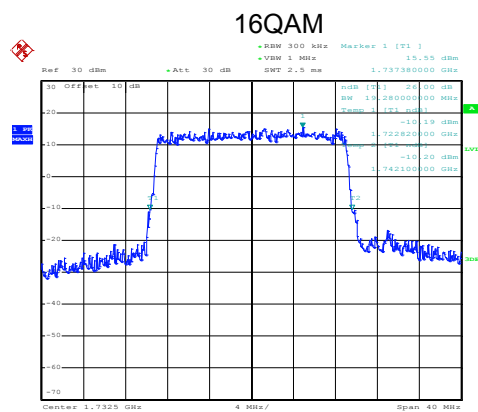


Date: 29.JUL.2020 11:22:15

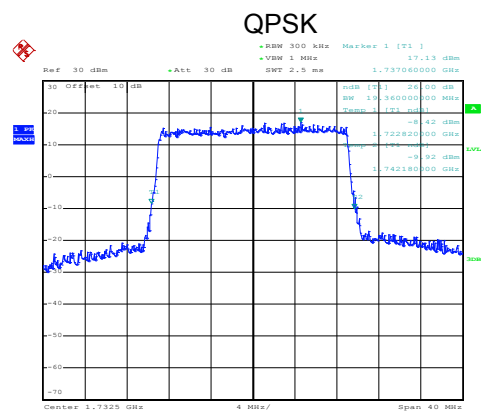


Date: 29.JUL.2020 11:22:11

Lowest channel

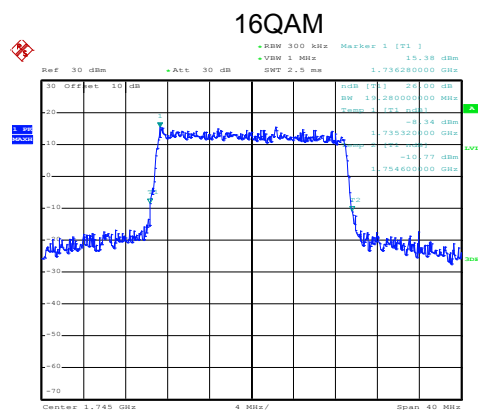


Date: 29.JUL.2020 11:22:27

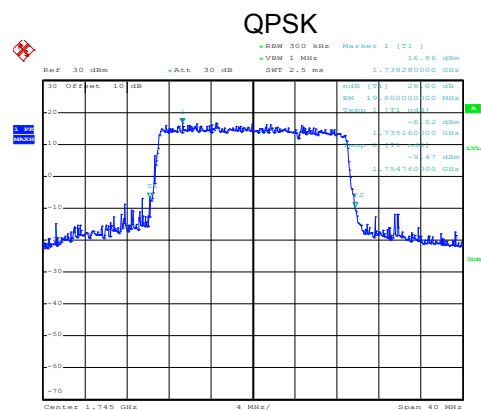


Date: 29.JUL.2020 11:22:23

Middle channel



Date: 29.JUL.2020 11:22:59



Date: 29.JUL.2020 11:22:56

## Highest channel

LTE Band 5: 99% Occupy bandwidth  
BW: 1.4MHz



Date: 29.JUL.2020 11:33:12



Date: 29.JUL.2020 11:33:32



## Page 62 of

## 16QAM



QPSK



Lowest channel

## 16QAM



QPSK



Middle channel

16QAM



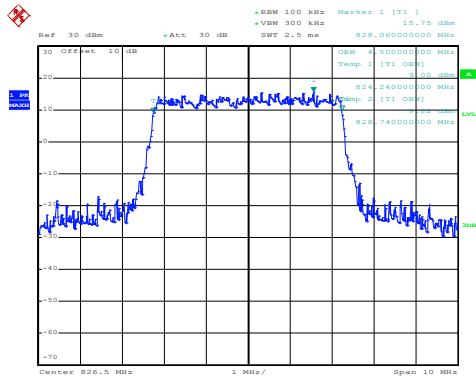
QPSK



## Highest channel

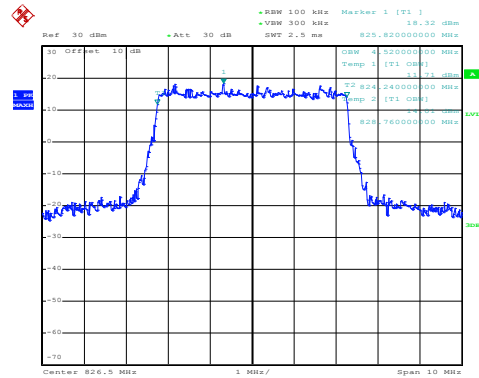
LTE Band 5: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:36:43

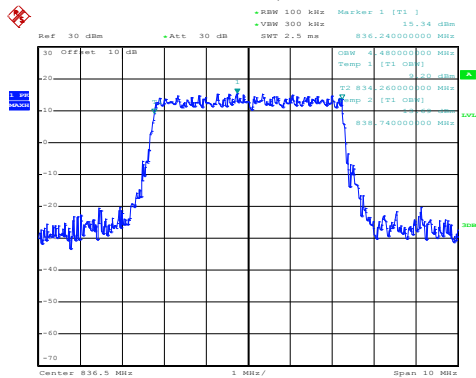
## QPSK



Date: 29.JUL.2020 11:36:40

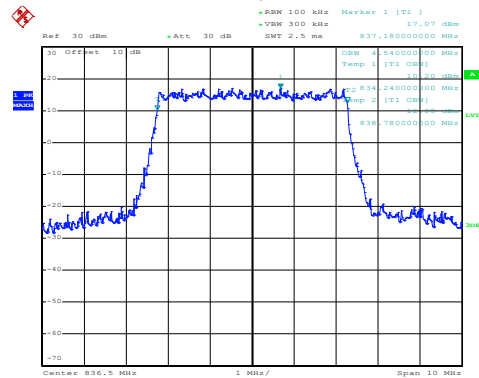
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:37:15

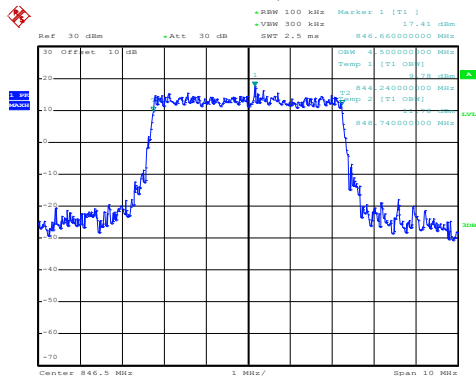
## QPSK



Date: 29.JUL.2020 11:37:12

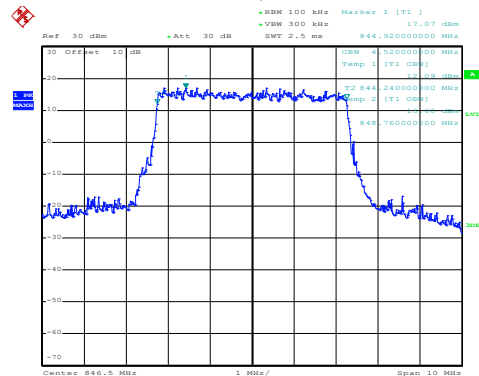
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:37:38

## QPSK

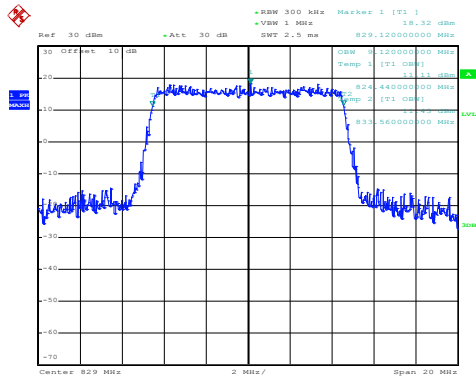


Date: 29.JUL.2020 11:37:35

## Highest channel

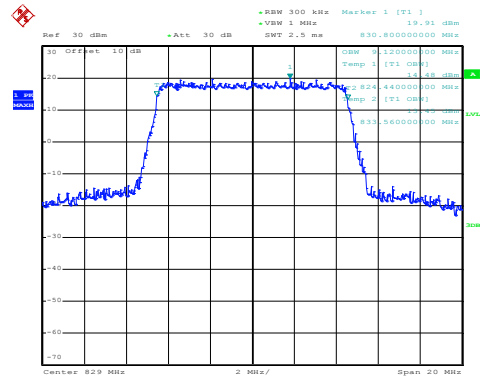
LTE Band 5: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:38:46

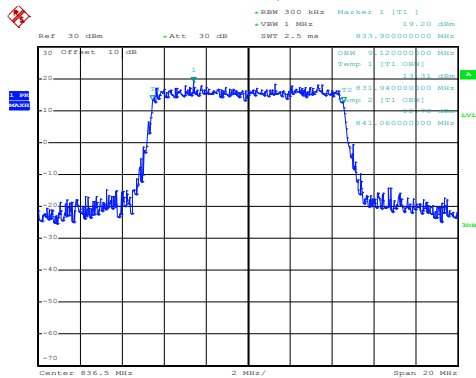
## QPSK



Date: 29.JUL.2020 11:38:43

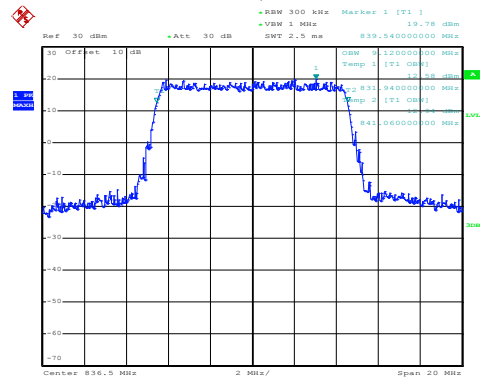
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:38:58

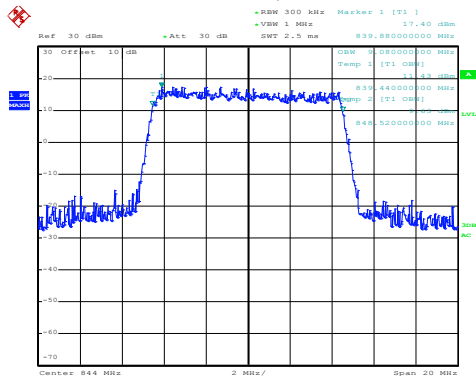
## QPSK



Date: 29.JUL.2020 11:38:54

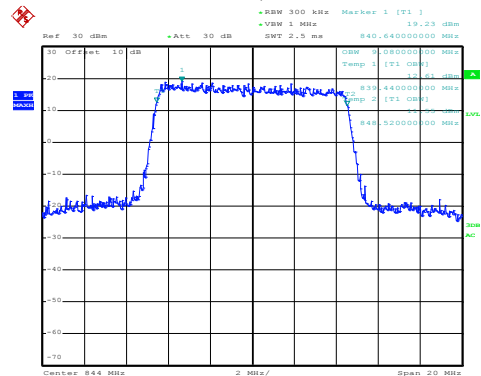
## Middle channel

## 16QAM



Date: 30.JUL.2020 18:18:42

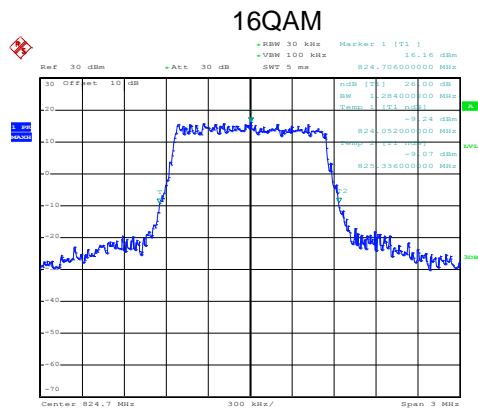
## QPSK



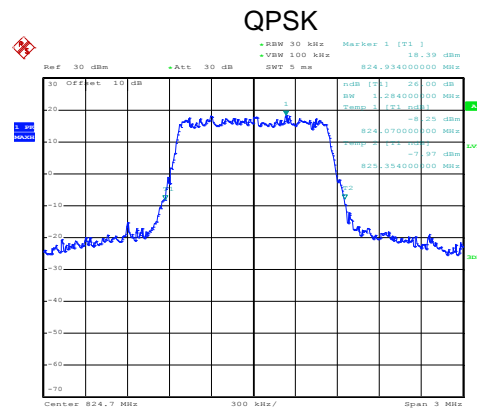
Date: 30.JUL.2020 18:18:38

## Highest channel

LTE Band 5: -26dBc bandwidth  
BW: 1.4MHz

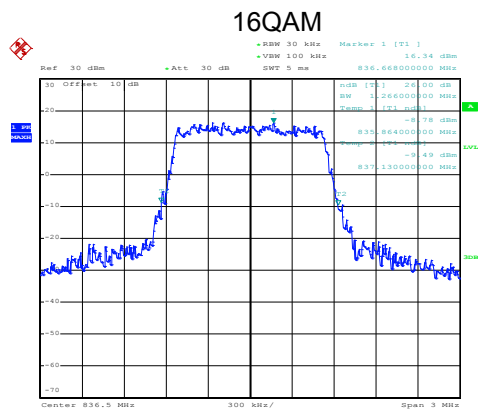


Date: 29.JUL.2020 11:32:50

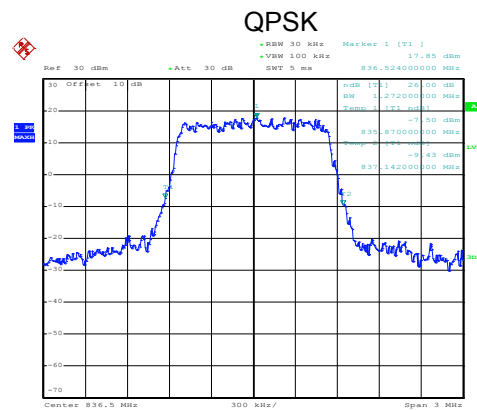


Date: 29.JUL.2020 11:32:46

Lowest channel

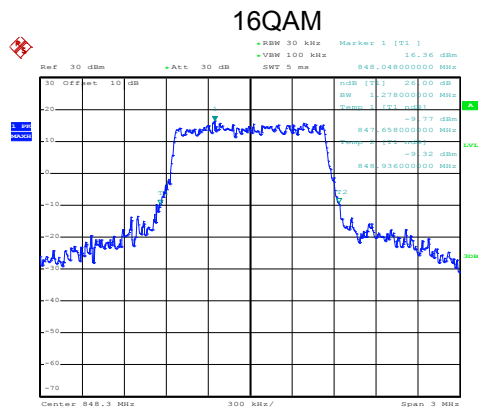


Date: 29.JUL.2020 11:33:02

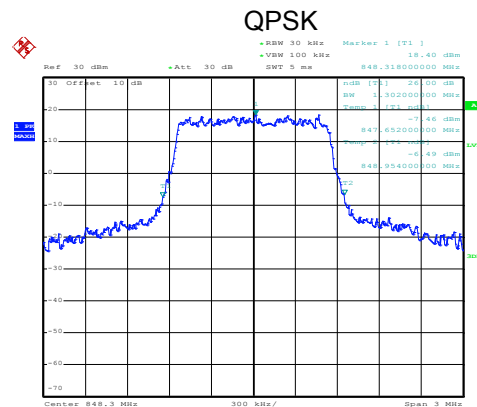


Date: 29.JUL.2020 11:32:58

Middle channel



Date: 29.JUL.2020 11:33:42

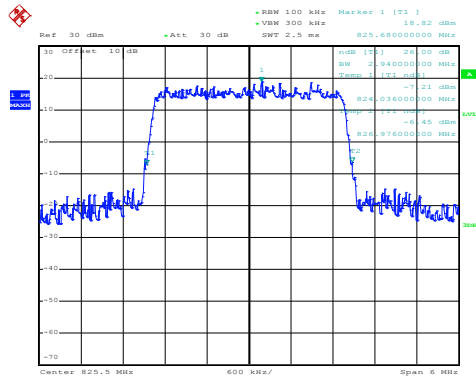


Date: 29.JUL.2020 11:33:38

## Highest channel

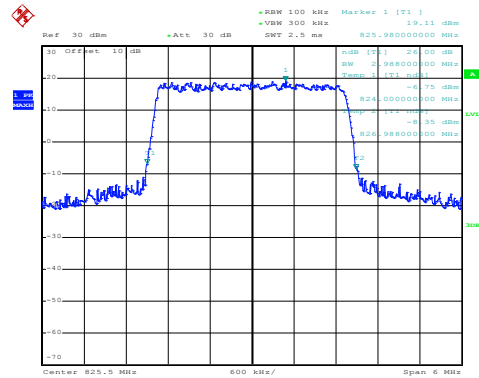
LTE Band 5: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:34:25

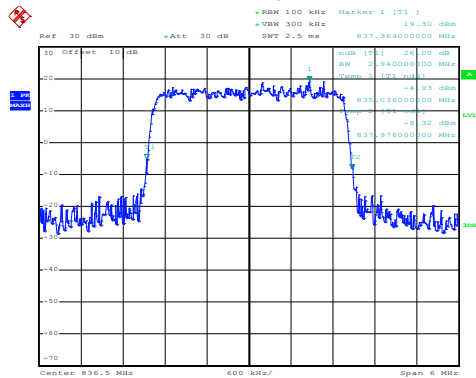
## QPSK



Date: 29.JUL.2020 11:34:22

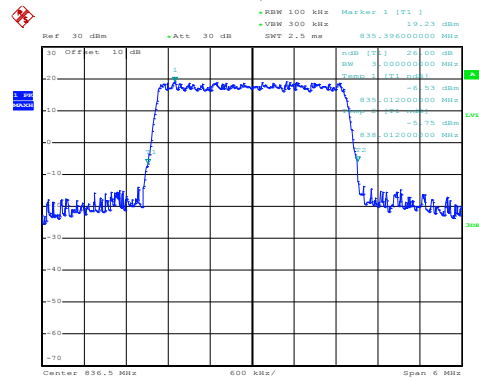
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:34:59

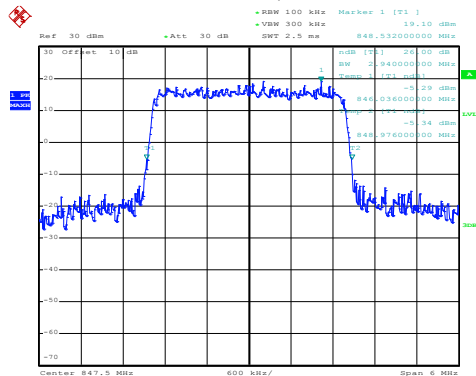
## QPSK



Date: 29.JUL.2020 11:34:55

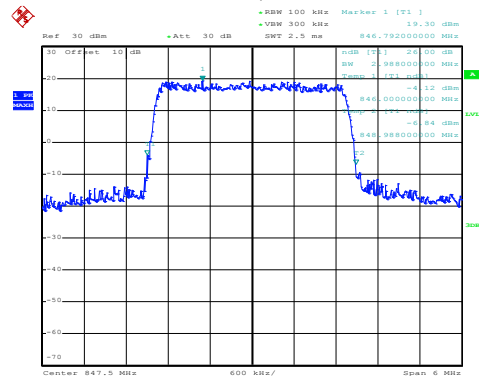
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:35:16

## QPSK

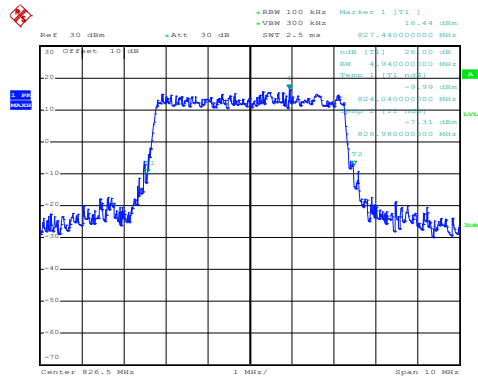


Date: 29.JUL.2020 11:35:12

## Highest channel

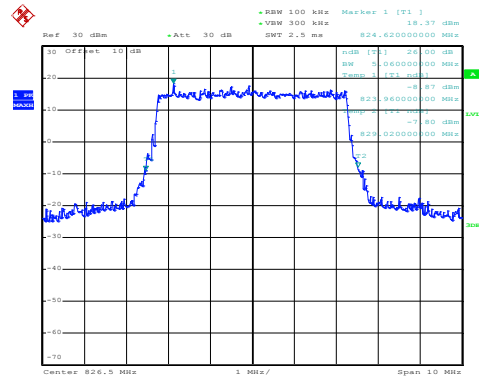
LTE Band 5: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:36:53

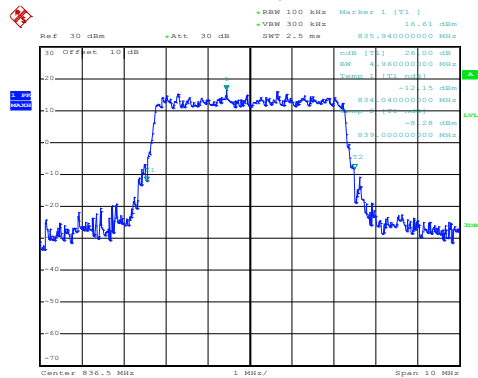
## QPSK



Date: 29.JUL.2020 11:36:49

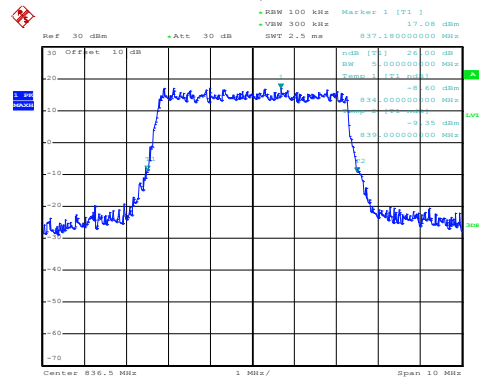
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:37:06

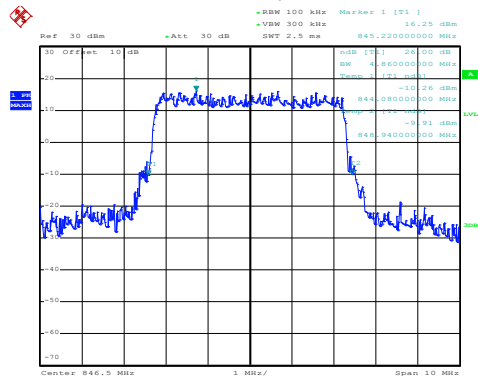
## QPSK



Date: 29.JUL.2020 11:37:02

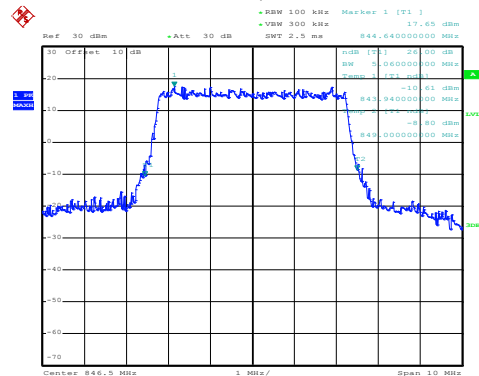
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:37:49

## QPSK

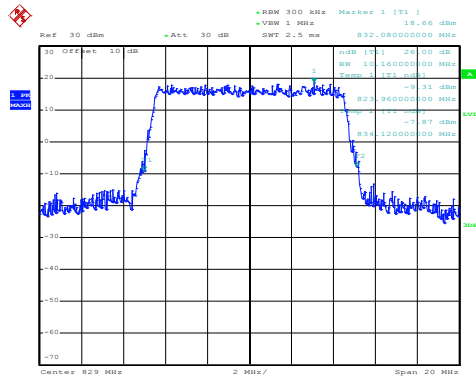


Date: 29.JUL.2020 11:38:13

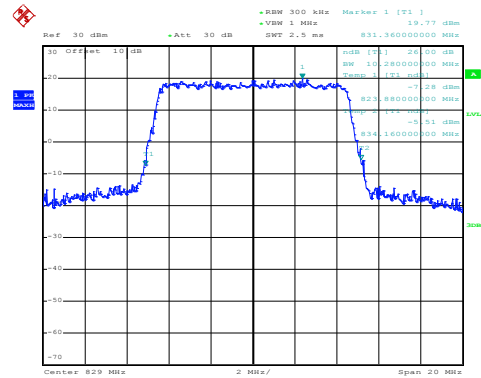
## Highest channel



QPSK



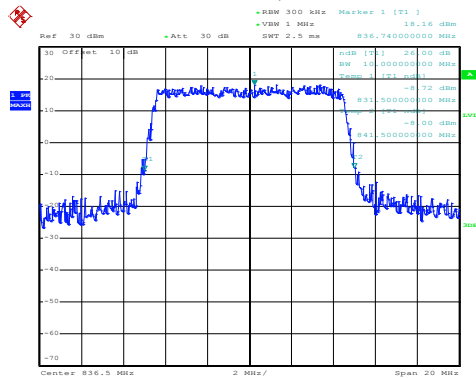
Date: 29.JUL.2020 11:38:36



Date: 29.JUL.2020 11:38:33

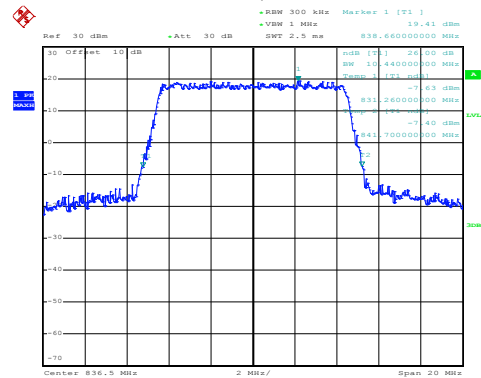
Lowest channel

16QAM



Date: 29.JUL.2020 11:39:08

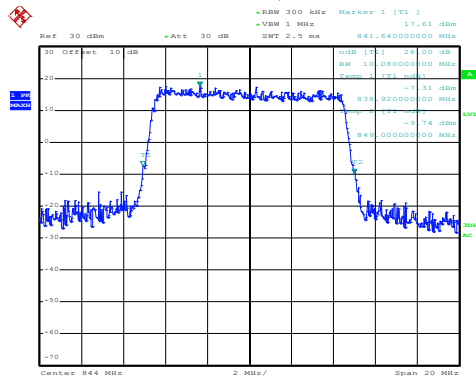
QPSK



Date: 29.JUL.2020 11:39:05

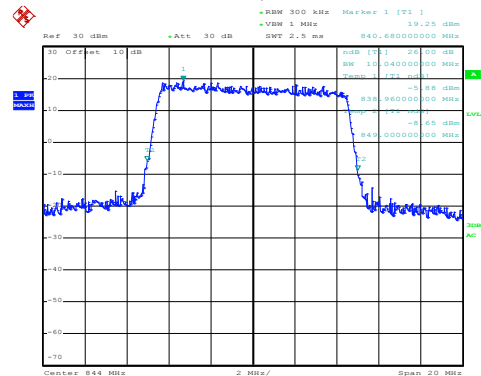
Middle channel

16QAM



Date: 30.JUL.2020 18:18:32

QPSK



Date: 30.JUL.2020 18:18:28

Highest channel

LTE Band 7: 99% Occupancy bandwidth  
BW: 5MHz



## 16QAM



## 16QAM

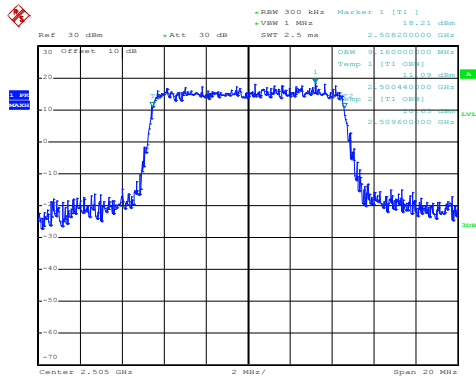


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Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282, Fax: +86-755-23116366  
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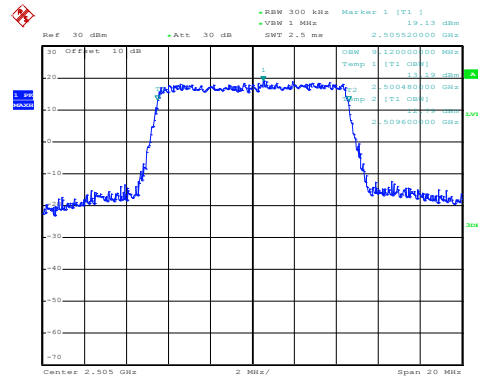
LTE Band 7: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:55:13

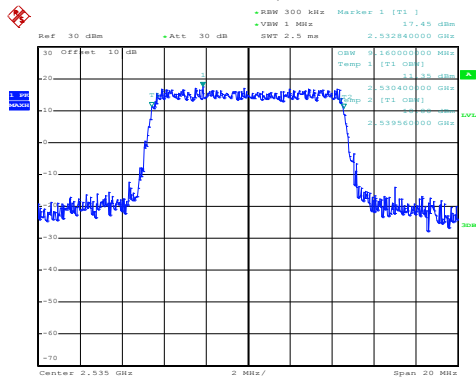
## QPSK



Date: 29.JUL.2020 11:55:09

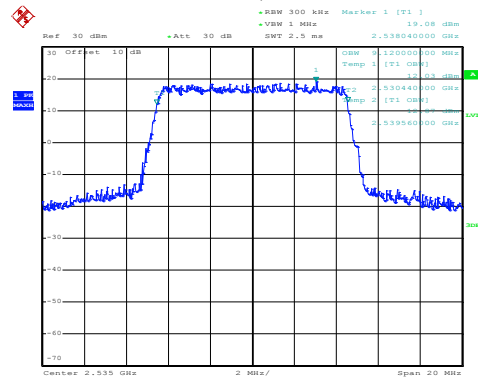
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:55:25

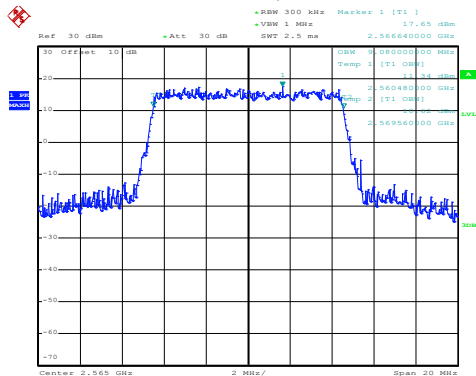
## QPSK



Date: 29.JUL.2020 11:55:21

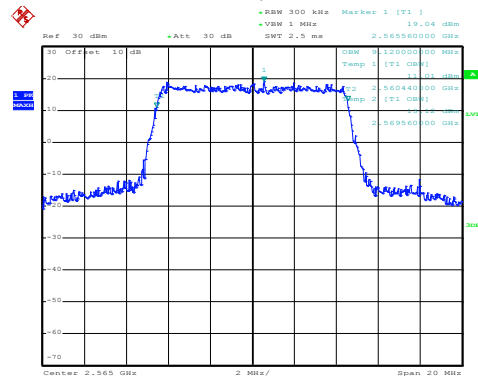
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:56:00

## QPSK

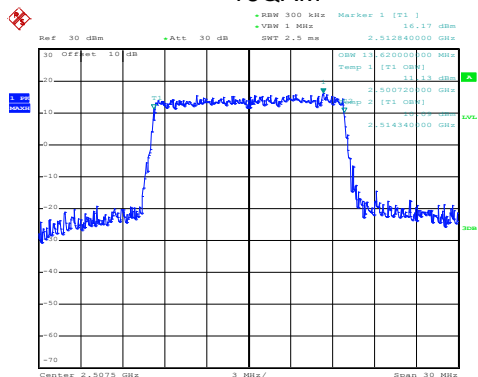


Date: 29.JUL.2020 11:55:56

## Highest channel

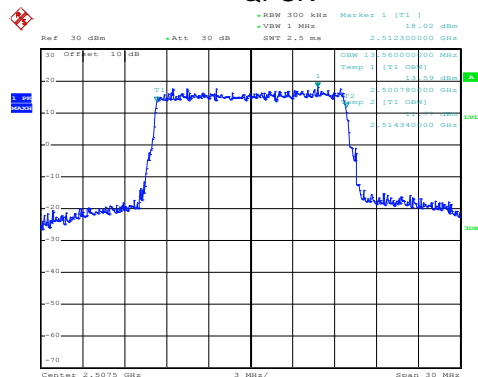
LTE Band 7: 99% Occupancy bandwidth  
BW: 15MHz

## 16QAM



Date: 29.JUL.2020 11:56:50

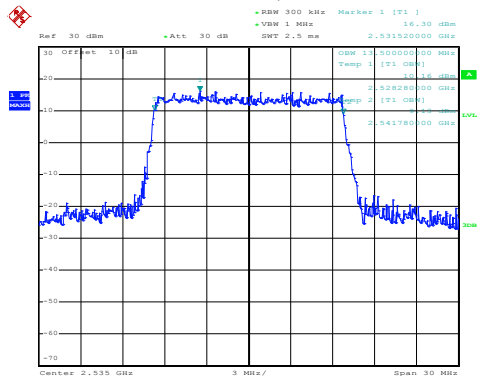
## QPSK



Date: 29.JUL.2020 11:56:46

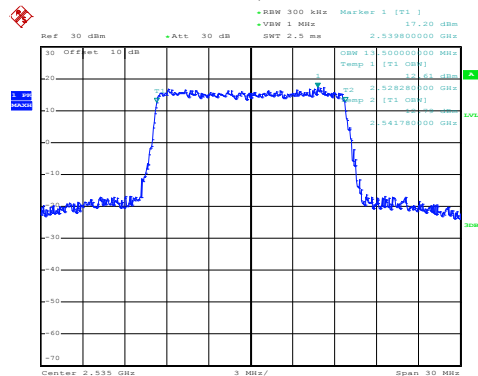
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:57:24

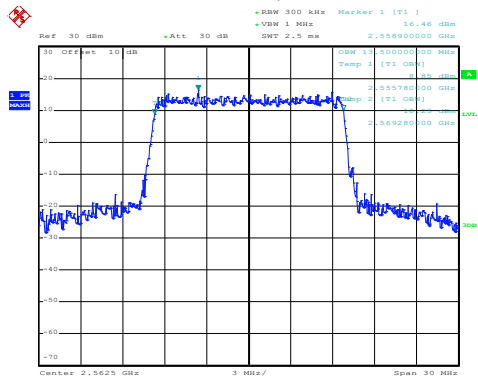
## QPSK



Date: 29.JUL.2020 11:57:20

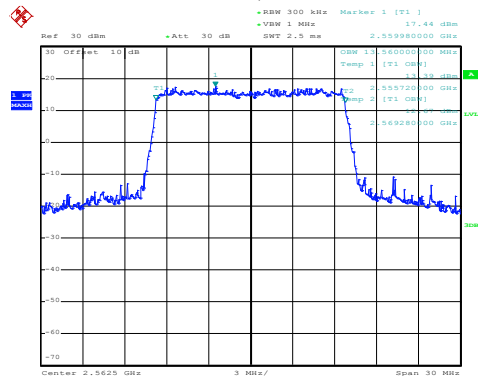
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:58:48

## QPSK



Date: 29.JUL.2020 11:58:45

## Highest channel

## 16QAM



## Date: 29.JUL.2020 12:00:03

## 16QAM



Date: 29.JUL.2020 12:00:15

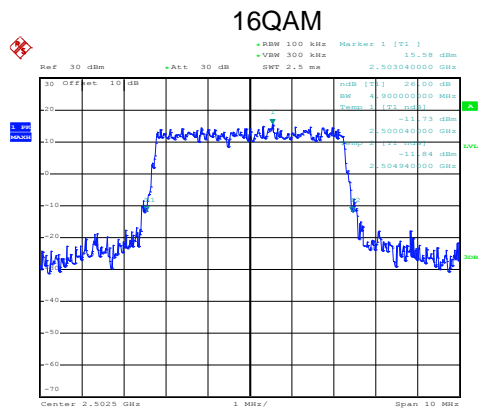
16QAM



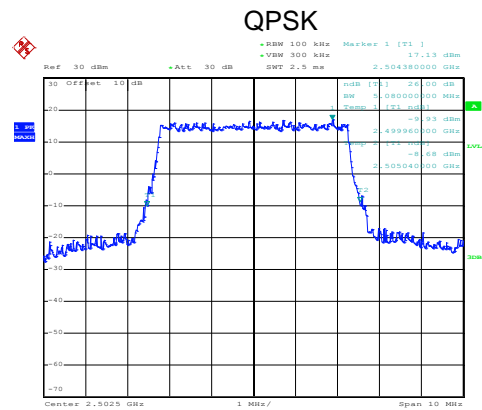
Date: 29.JUL.2020 12:00:51

## Page 73 of

LTE Band 7: -26dBc bandwidth  
BW: 5MHz

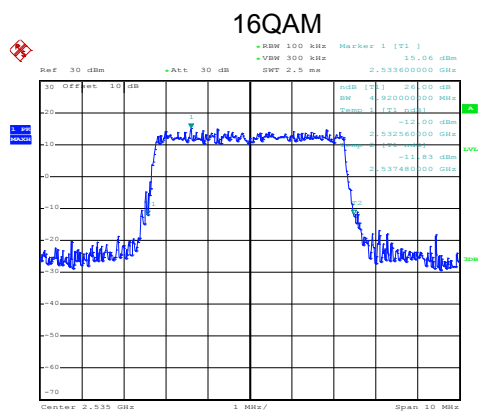


Date: 29.JUL.2020 11:53:35

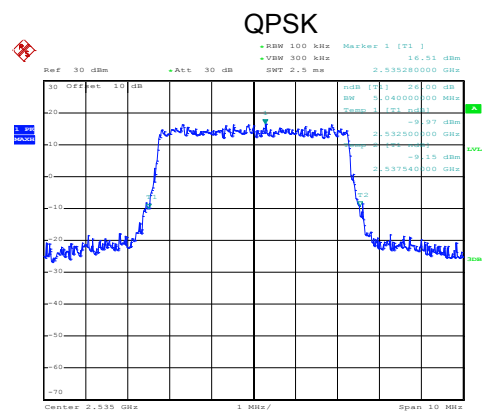


Date: 29.JUL.2020 11:53:32

Lowest channel

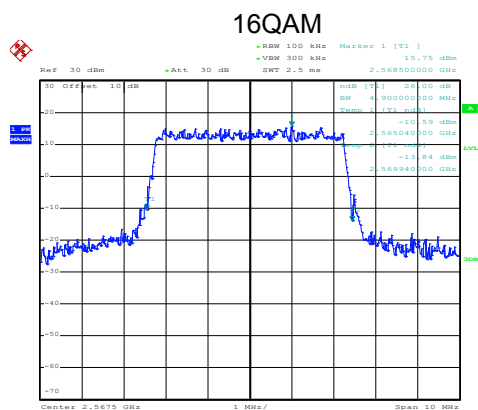


Date: 29.JUL.2020 11:53:48

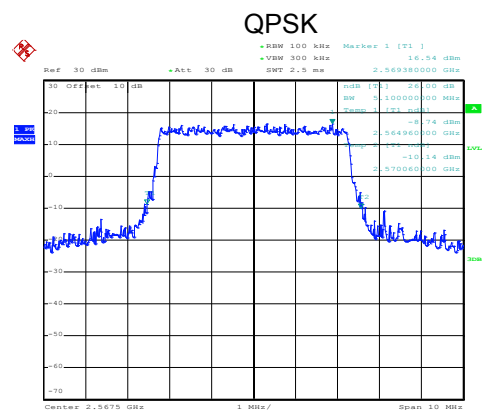


Date: 29.JUL.2020 11:53:44

Middle channel



Date: 29.JUL.2020 11:54:30

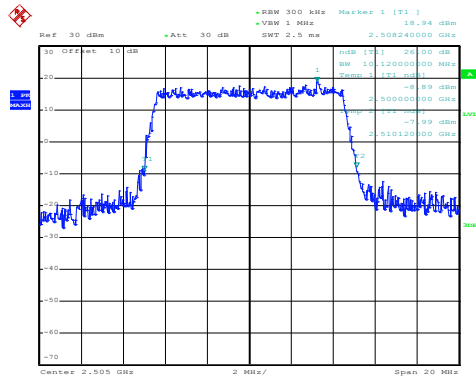


Date: 29.JUL.2020 11:54:25

## Highest channel

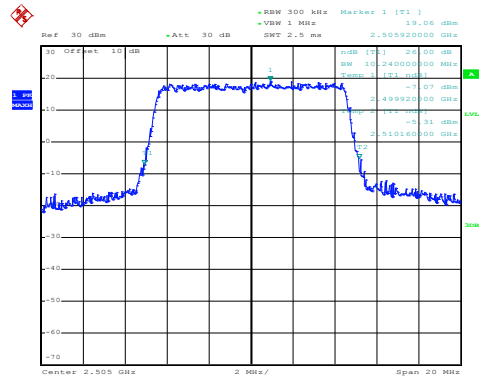
LTE Band 7: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:55:02

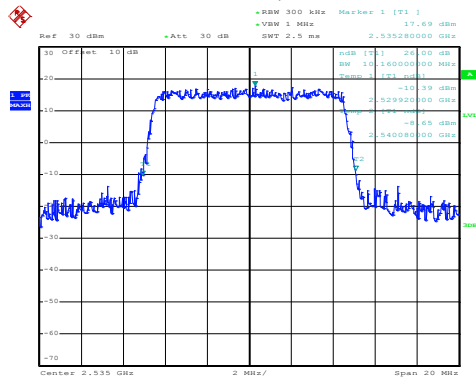
## QPSK



Date: 29.JUL.2020 11:54:59

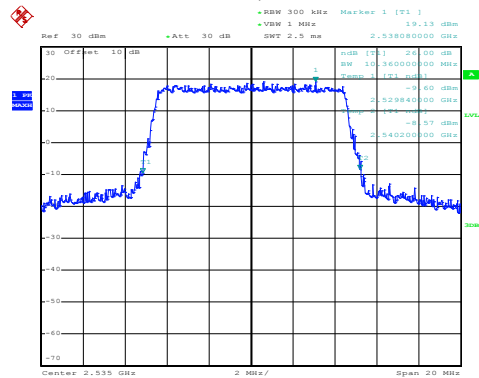
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:55:35

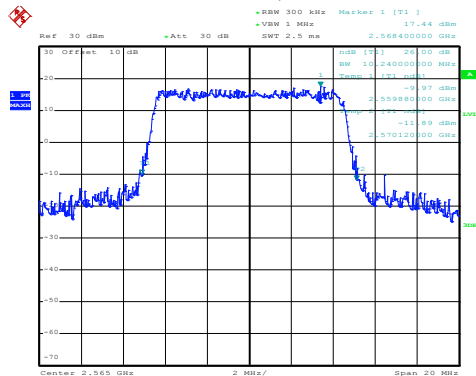
## QPSK



Date: 29.JUL.2020 11:55:31

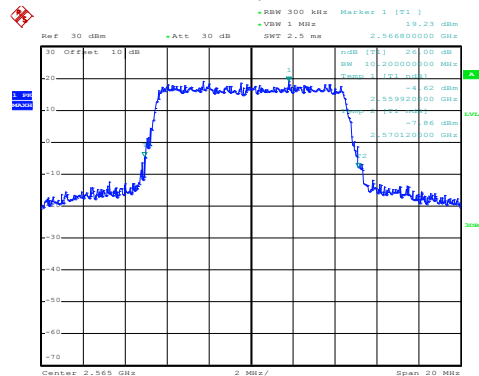
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:55:50

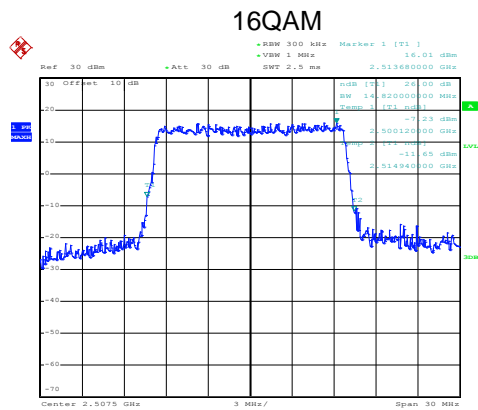
## QPSK



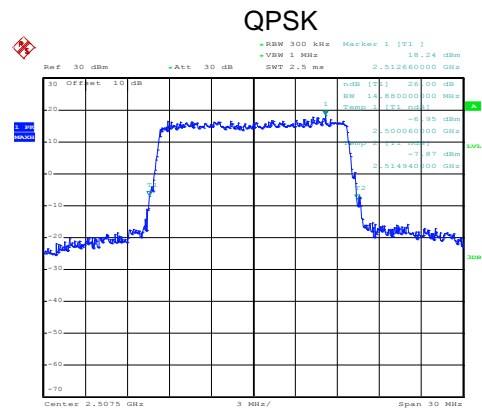
Date: 29.JUL.2020 11:55:46

## Highest channel

LTE Band 7: -26dBc bandwidth  
BW: 15MHz

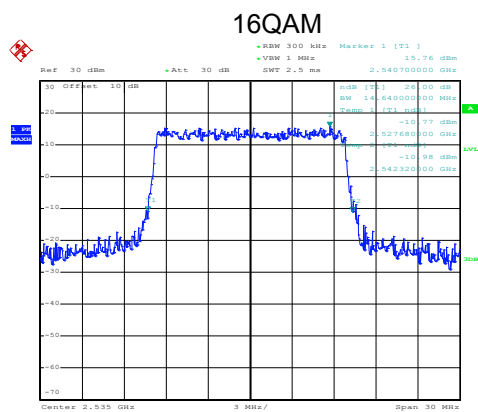


Date: 29.JUL.2020 11:57:00

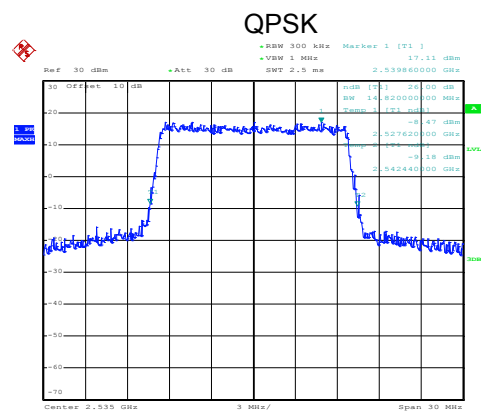


Date: 29.JUL.2020 11:56:56

Lowest channel

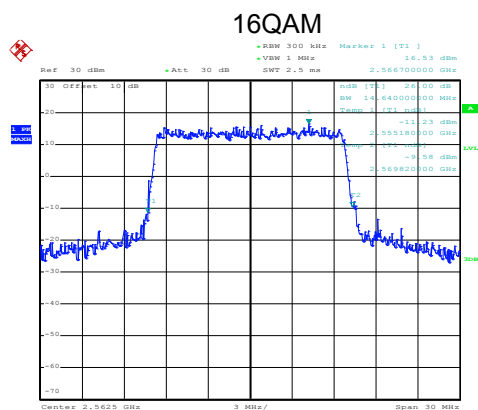


Date: 29.JUL.2020 11:57:13

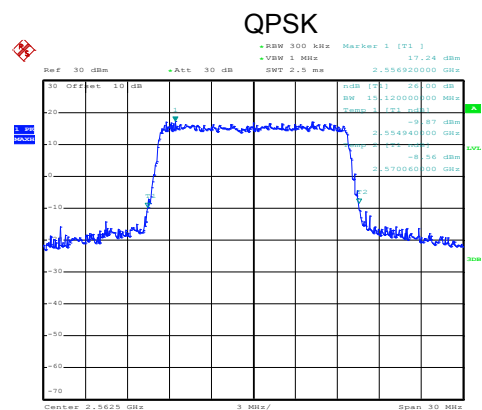


Date: 29.JUL.2020 11:57:09

Middle channel



Date: 29.JUL.2020 11:59:03



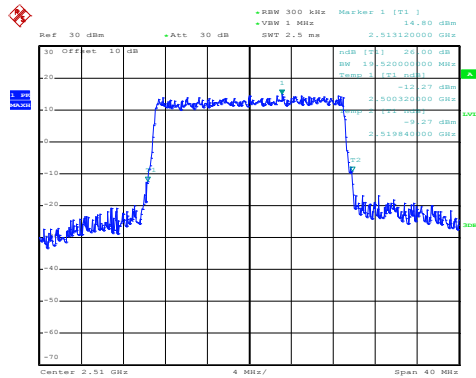
Date: 29.JUL.2020 11:58:56

## Highest channel



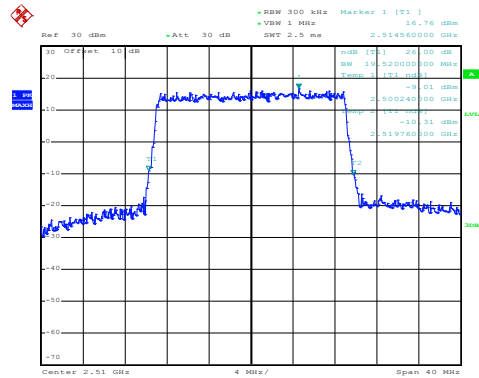
LTE Band 7: -26dBc bandwidth  
BW: 20MHz

## 16QAM



Date: 29.JUL.2020 11:59:57

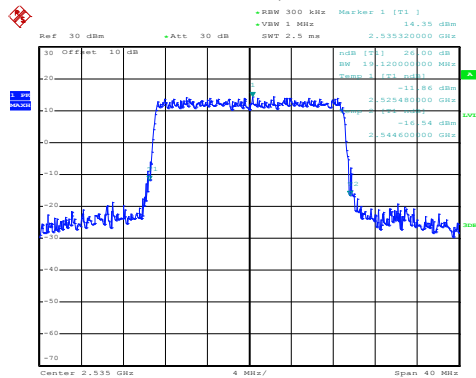
## QPSK



Date: 29.JUL.2020 11:59:53

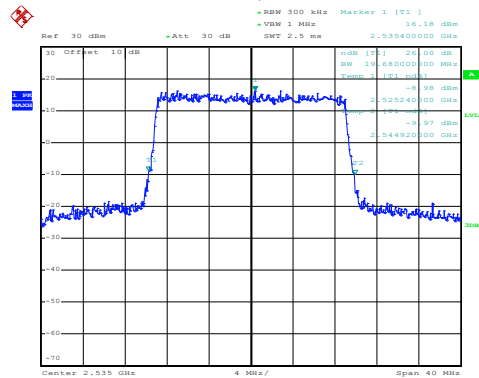
## Lowest channel

## 16QAM



Date: 29.JUL.2020 12:00:29

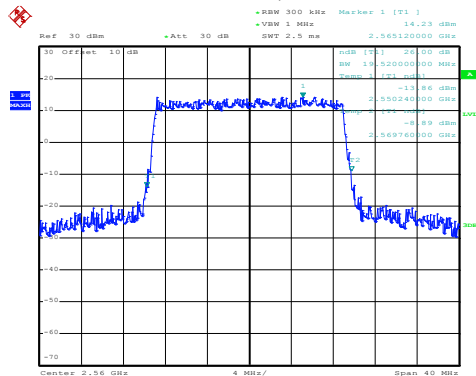
## QPSK



Date: 29.JUL.2020 12:00:25

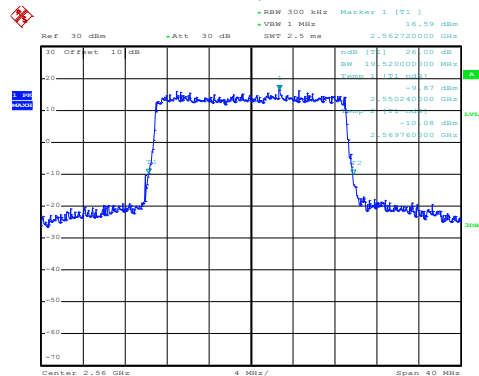
## Middle channel

## 16QAM



Date: 29.JUL.2020 12:00:43

## QPSK



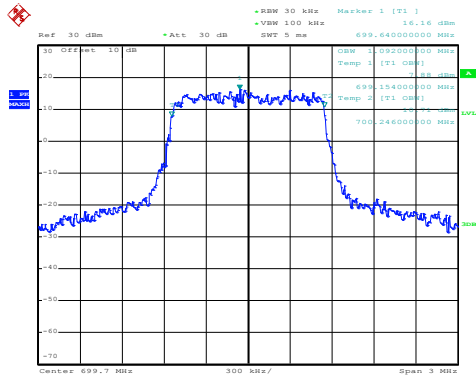
Date: 29.JUL.2020 12:00:40

## Highest channel

## LTE Band 12 part:

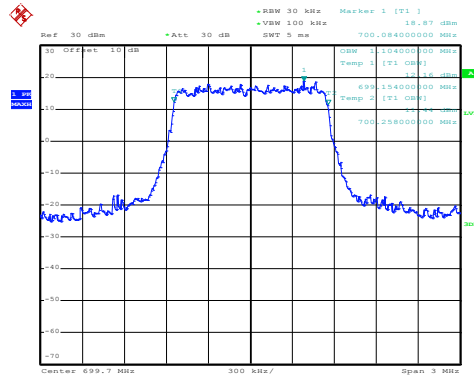
LTE Band 12: 99% Occupancy bandwidth  
BW: 1.4MHz

## 16QAM



Date: 29.JUL.2020 11:43:13

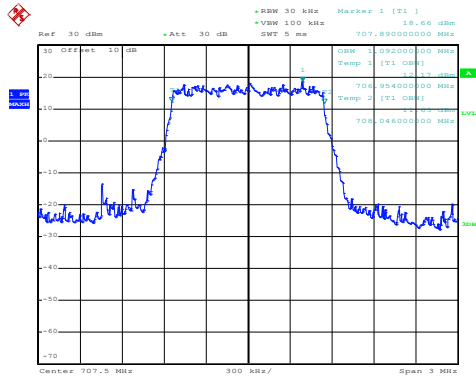
## QPSK



Date: 29.JUL.2020 11:43:09

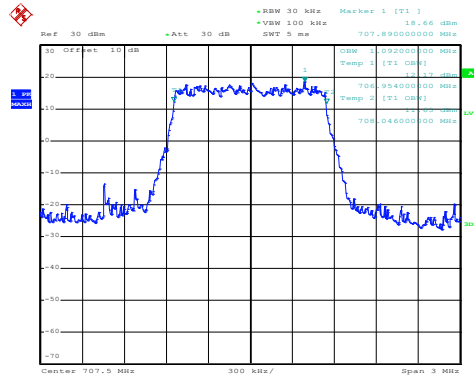
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:43:43

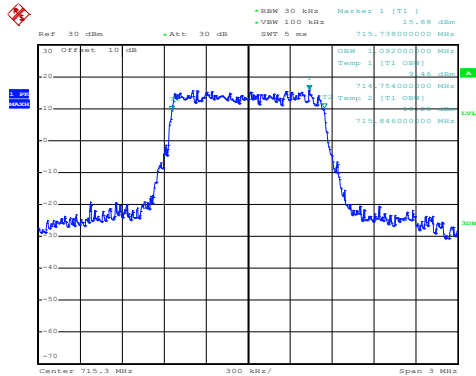
## QPSK



Date: 29.JUL.2020 11:43:43

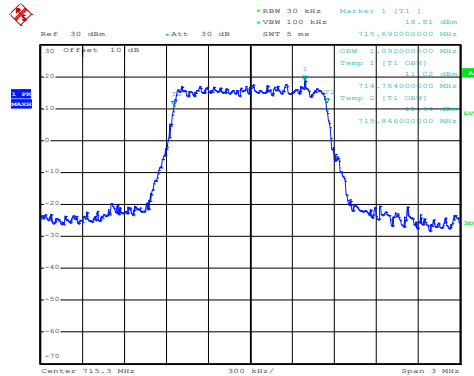
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:44:01

## QPSK

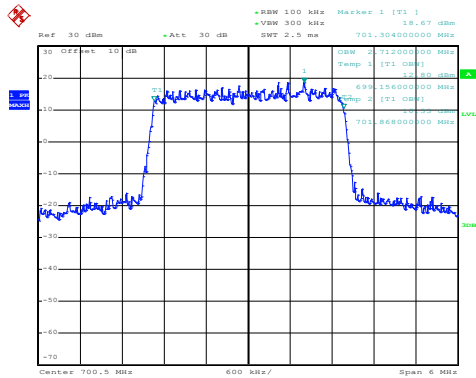


Date: 29.JUL.2020 11:43:58

## Highest channel

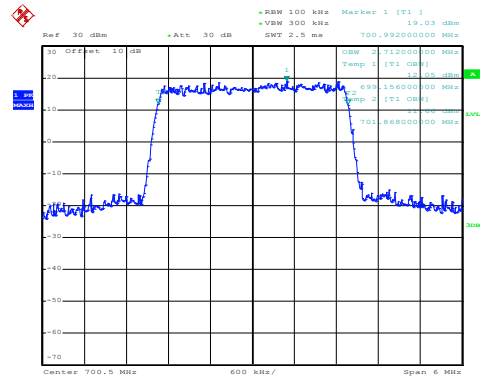
LTE Band 12: 99% Occupancy bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:45:23

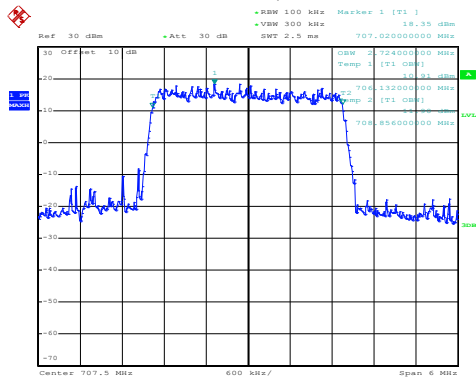
## QPSK



Date: 29.JUL.2020 11:45:20

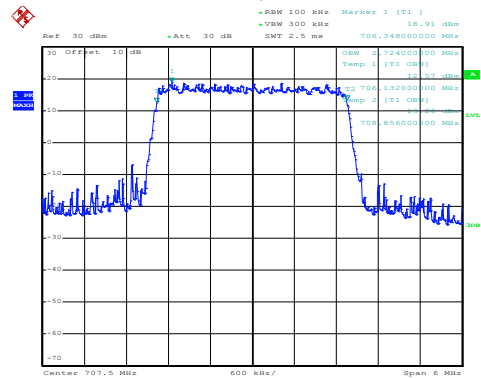
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:45:35

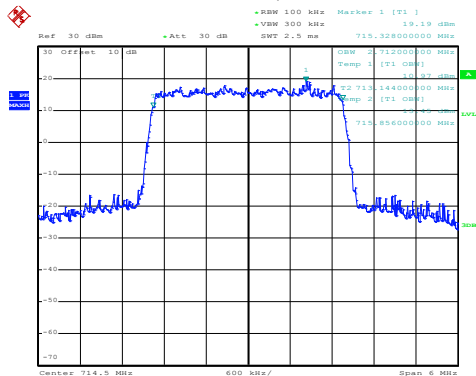
## QPSK



Date: 29.JUL.2020 11:45:32

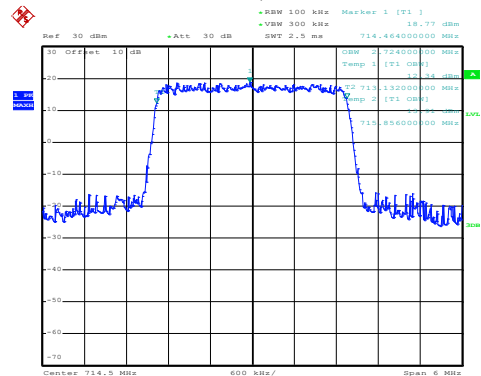
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:46:12

## QPSK

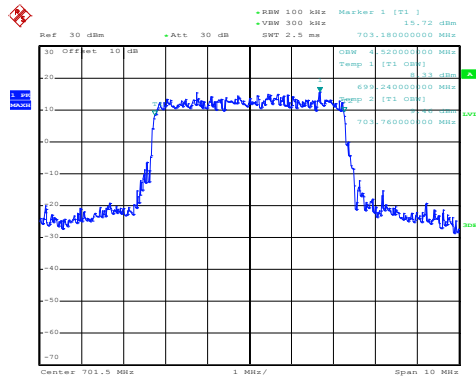


Date: 29.JUL.2020 11:46:08

## Highest channel

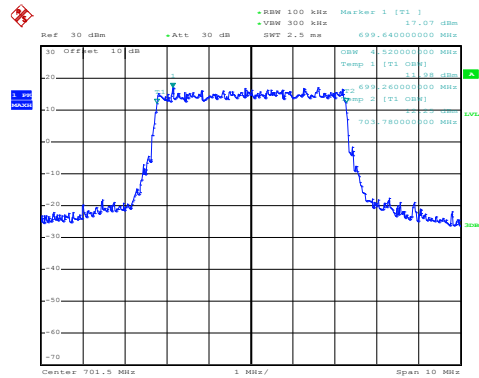
LTE Band 12: 99% Occupancy bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:46:42

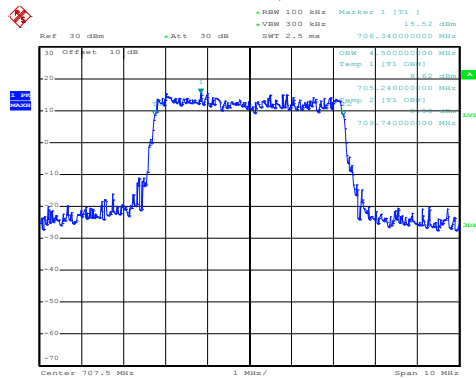
## QPSK



Date: 29.JUL.2020 11:46:38

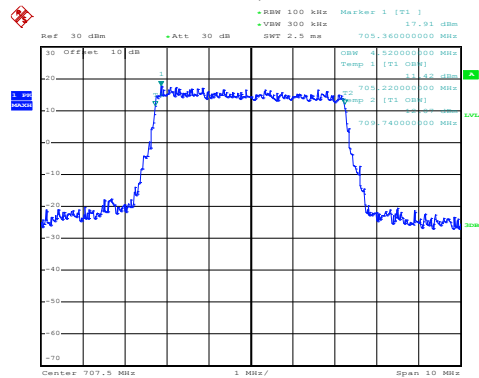
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:47:14

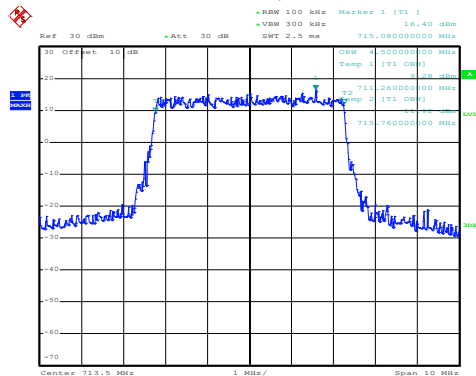
## QPSK



Date: 29.JUL.2020 11:47:10

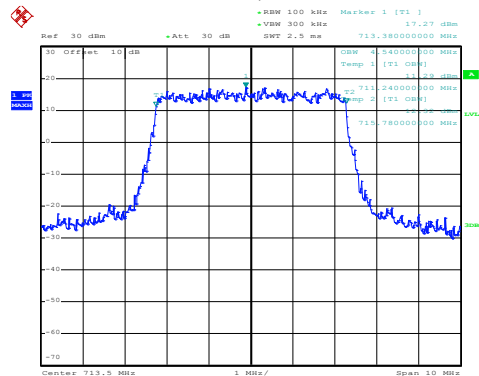
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:48:12

## QPSK

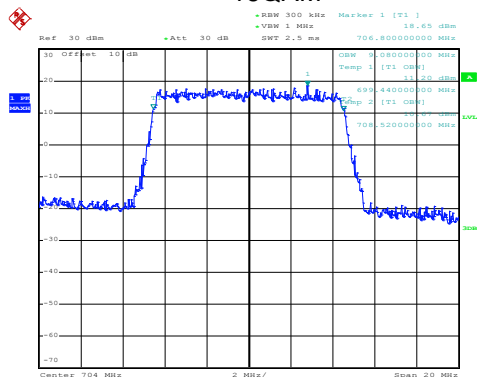


Date: 29.JUL.2020 11:48:09

## Highest channel

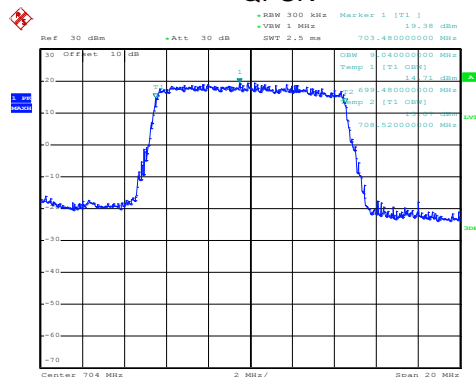
LTE Band 12: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:49:07

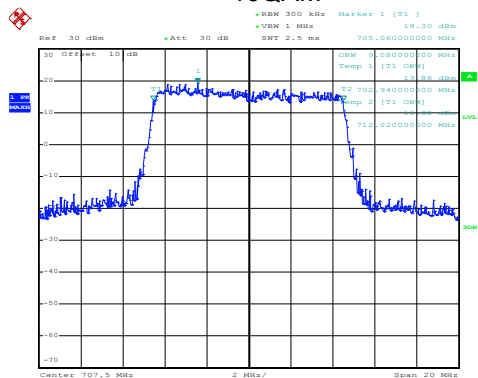
## QPSK



Date: 29.JUL.2020 11:49:03

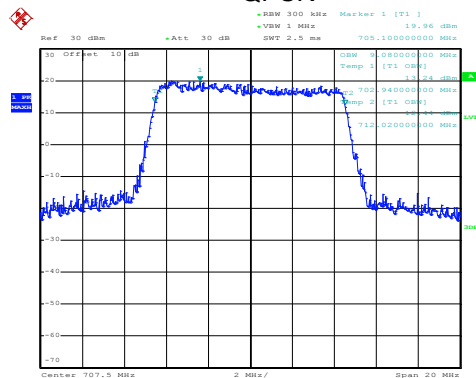
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:49:23

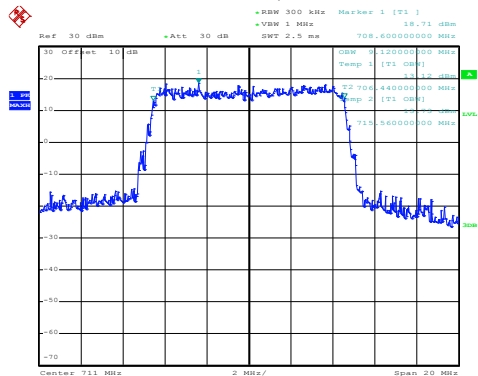
## QPSK



Date: 29.JUL.2020 11:49:19

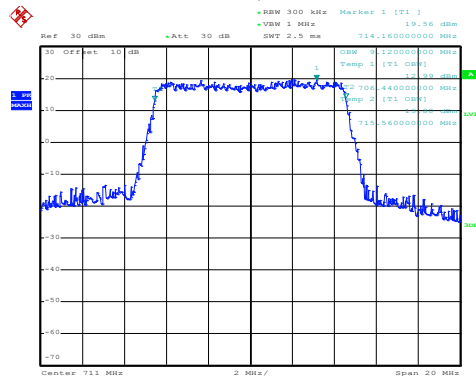
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:49:58

## QPSK

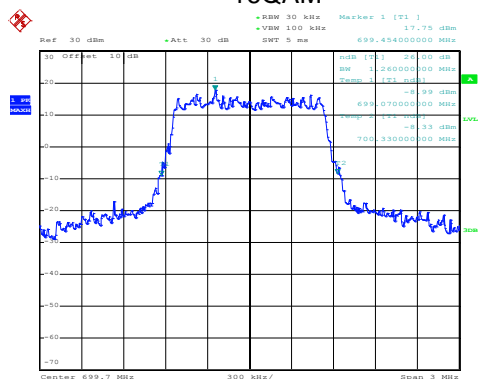


Date: 29.JUL.2020 11:49:55

## Highest channel

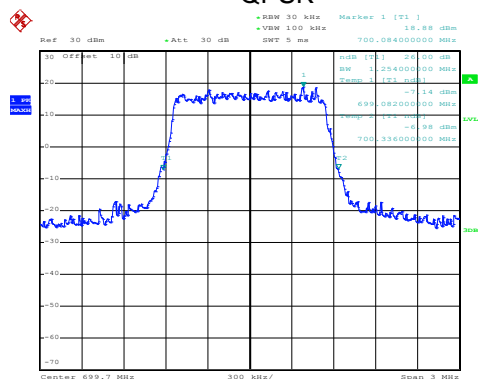
LTE Band 12: -26dBc bandwidth  
BW: 1.4MHz

## 16QAM



Date: 29.JUL.2020 11:43:23

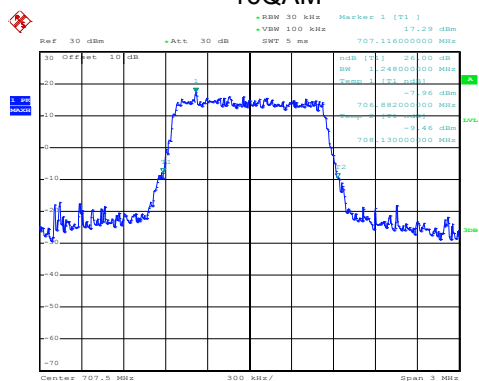
## QPSK



Date: 29.JUL.2020 11:43:20

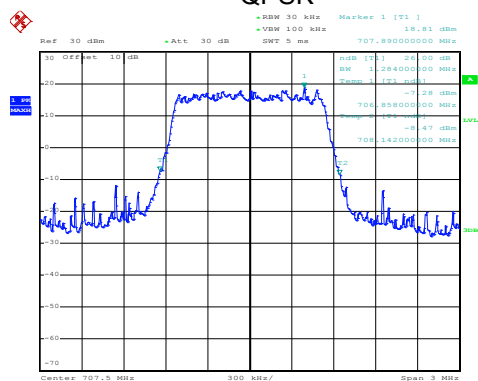
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:43:37

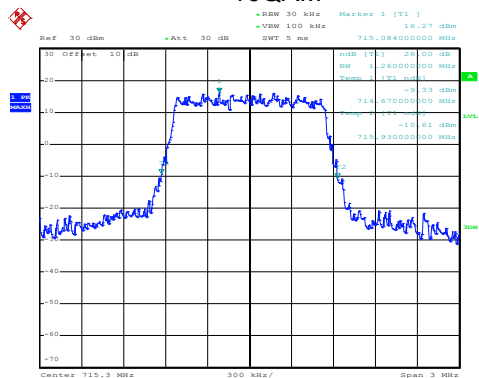
## QPSK



Date: 29.JUL.2020 11:43:34

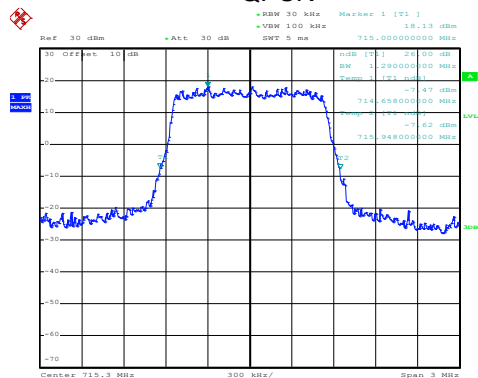
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:44:11

## QPSK

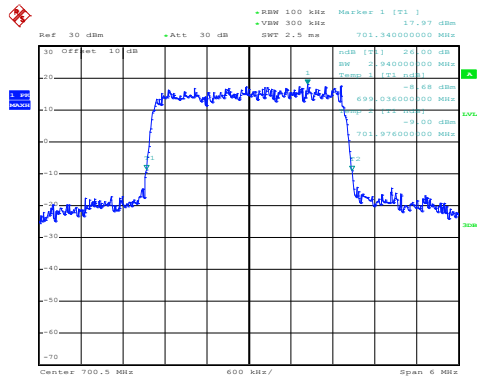


Date: 29.JUL.2020 11:44:08

## Highest channel

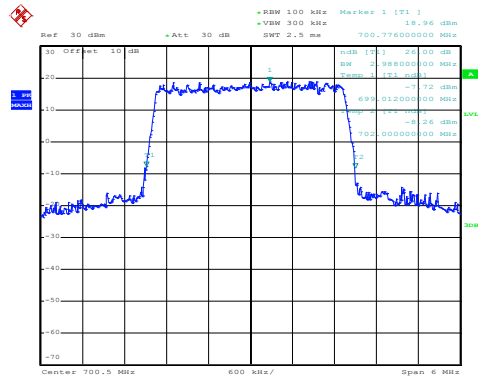
LTE Band 12: -26dBc bandwidth  
BW: 3MHz

## 16QAM



Date: 29.JUL.2020 11:45:14

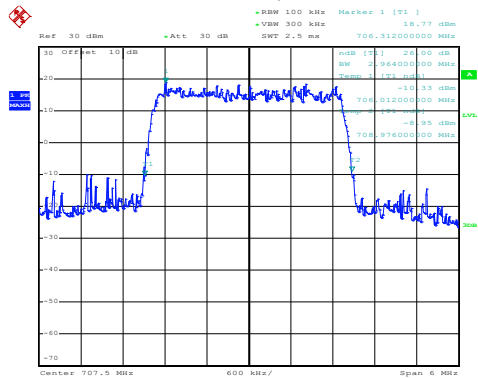
## QPSK



Date: 29.JUL.2020 11:45:10

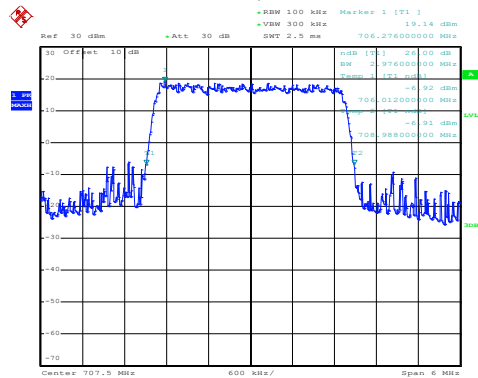
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:45:45

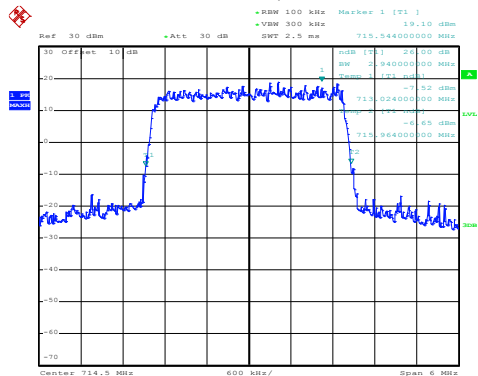
## QPSK



Date: 29.JUL.2020 11:45:41

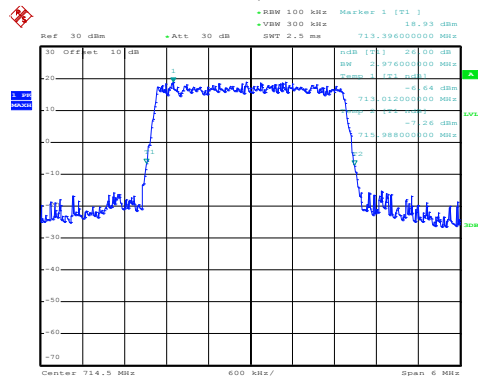
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:46:02

## QPSK

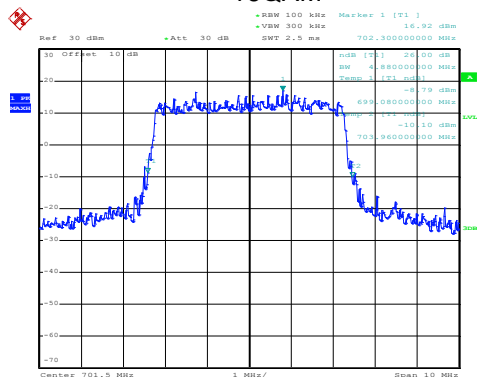


Date: 29.JUL.2020 11:45:58

## Highest channel

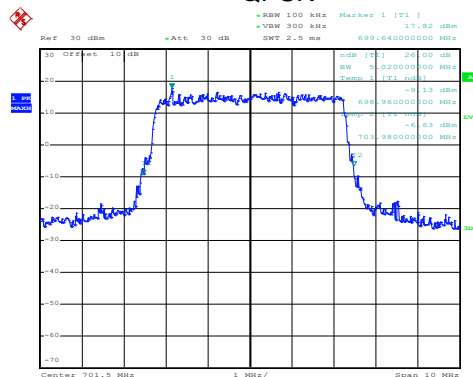
LTE Band 12: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:46:51

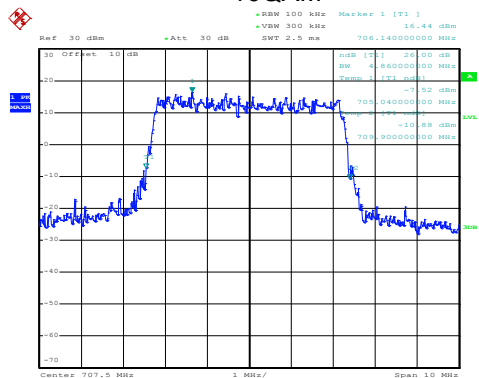
## QPSK



Date: 29.JUL.2020 11:46:48

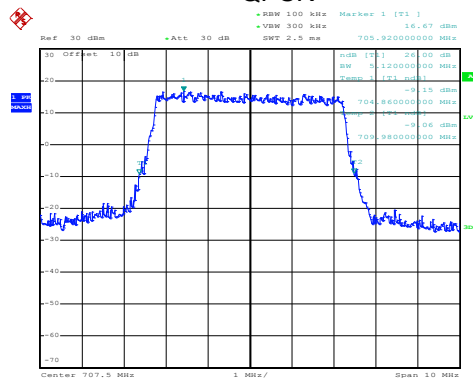
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:47:04

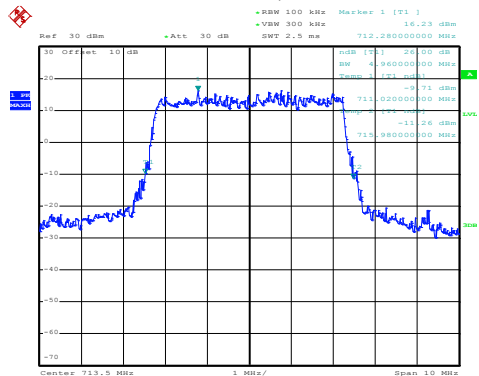
## QPSK



Date: 29.JUL.2020 11:47:01

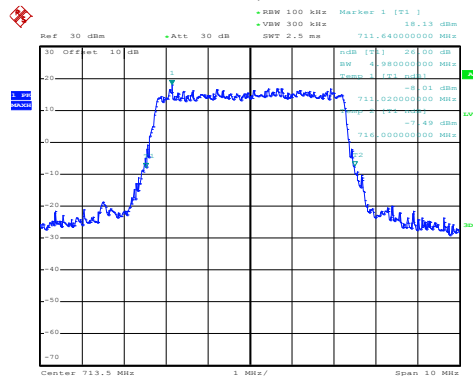
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:48:25

## QPSK



Date: 29.JUL.2020 11:48:22

## Highest channel



## 16QAM



## Date: 29.JUL.2020 11:48:53

## 16QAM



Date: 29.JUL.2020 11:49:30

## 16QAM



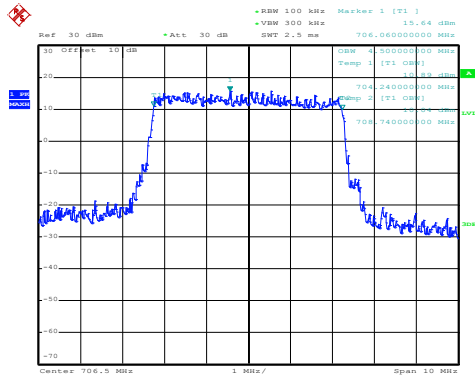
Date: 29.JUL.2020 11:49:44

## Page 85 of

## LTE Band 17 part:

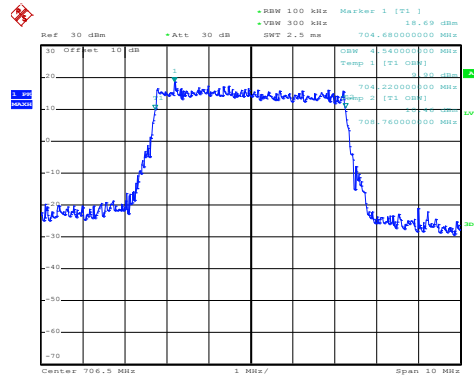
LTE Band 17: 99% Occupy bandwidth  
BW: 5MHz

16QAM



Date: 29.JUL.2020 11:52:04

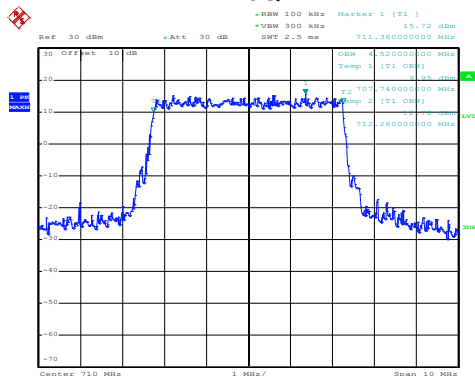
QPSK



Date: 29.JUL.2020 11:52:00

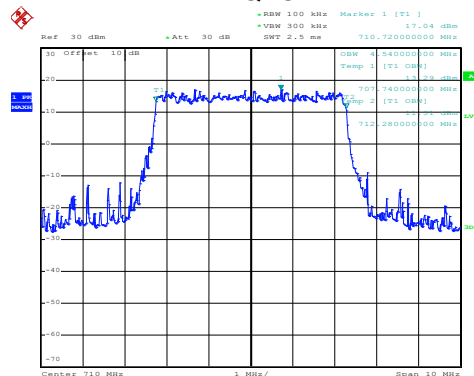
Lowest channel

16QAM



Date: 29.JUL.2020 11:52:20

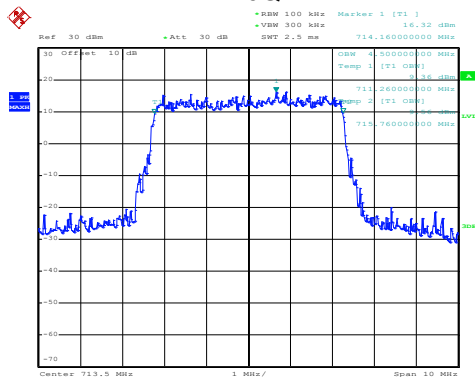
QPSK



Date: 29.JUL.2020 11:52:16

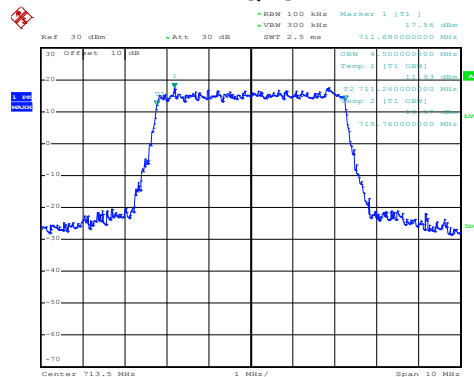
Middle channel

16QAM



Date: 29.JUL.2020 11:52:55

QPSK

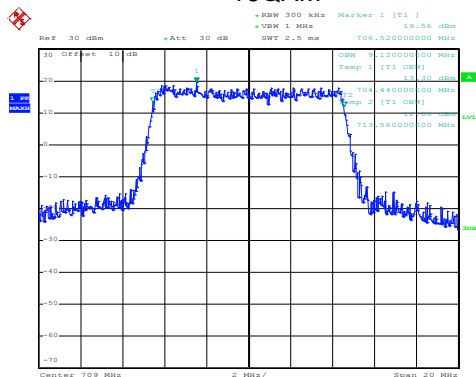


Date: 29.JUL.2020 11:52:52

Highest channel

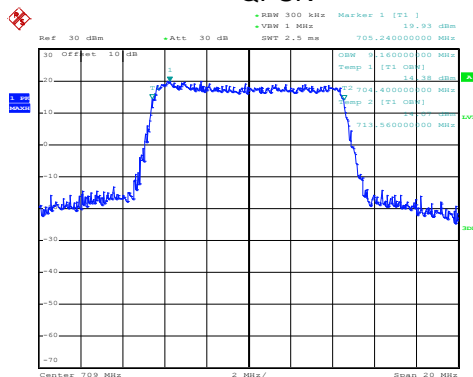
LTE Band 17: 99% Occupancy bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:51:09

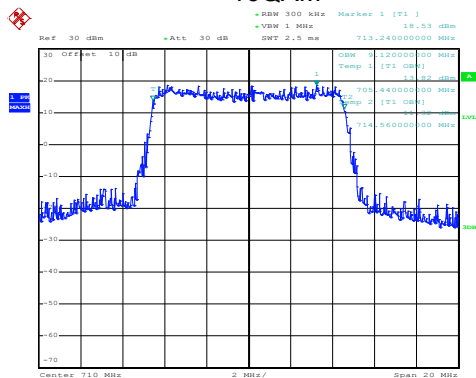
## QPSK



Date: 29.JUL.2020 11:51:05

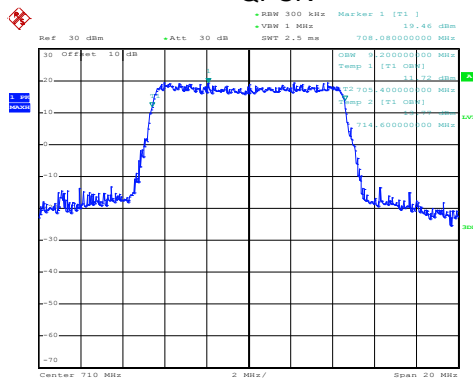
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:50:49

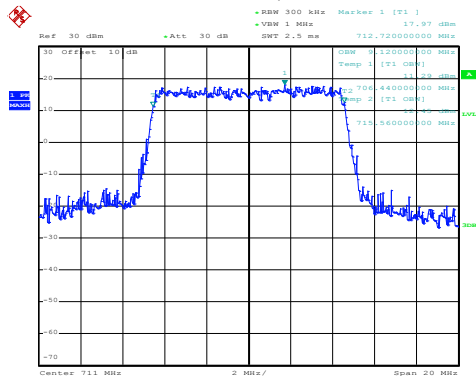
## QPSK



Date: 29.JUL.2020 11:50:42

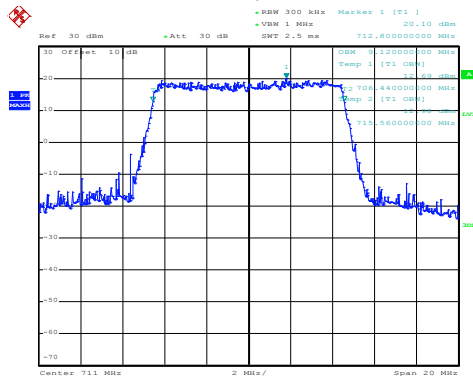
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:50:15

## QPSK

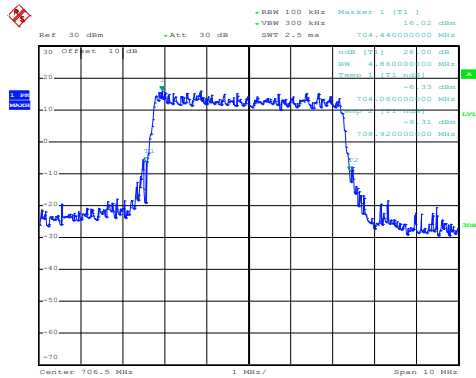


Date: 29.JUL.2020 11:50:11

## Highest channel

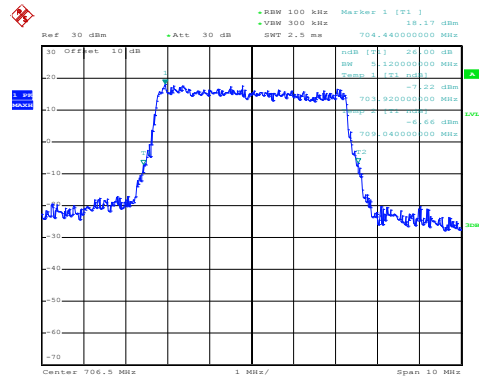
LTE Band 17: -26dBc bandwidth  
BW: 5MHz

## 16QAM



Date: 29.JUL.2020 11:51:54

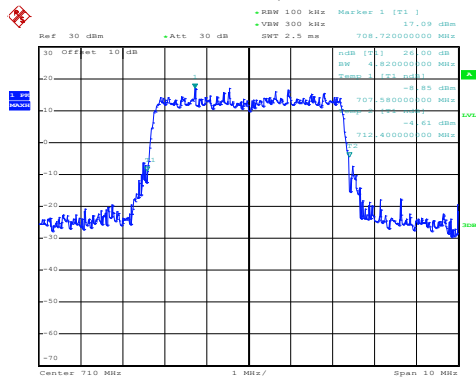
## QPSK



Date: 29.JUL.2020 11:51:50

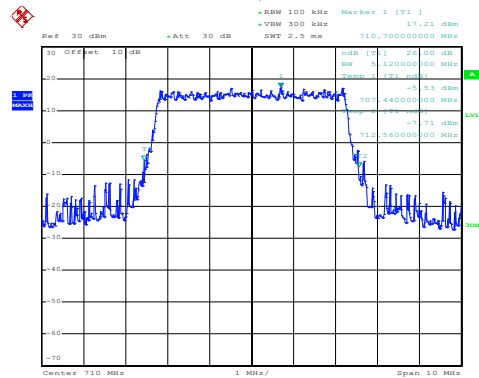
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:52:30

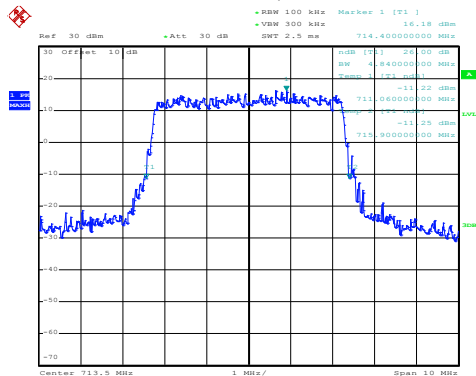
## QPSK



Date: 29.JUL.2020 11:52:26

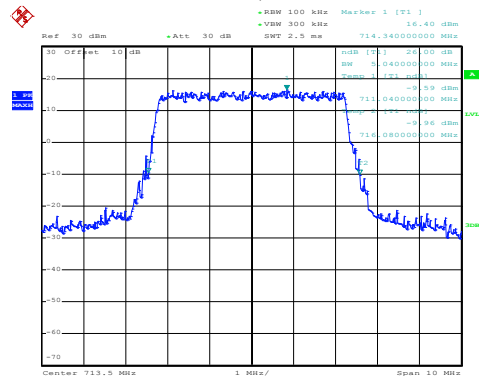
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:52:44

## QPSK

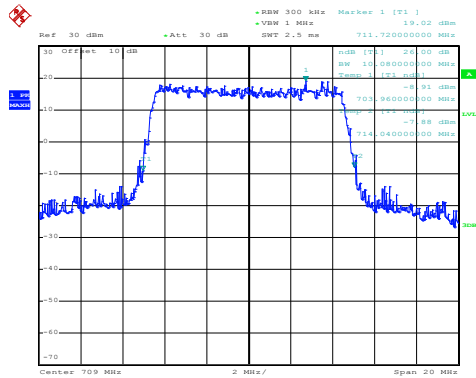


Date: 29.JUL.2020 11:52:40

## Highest channel

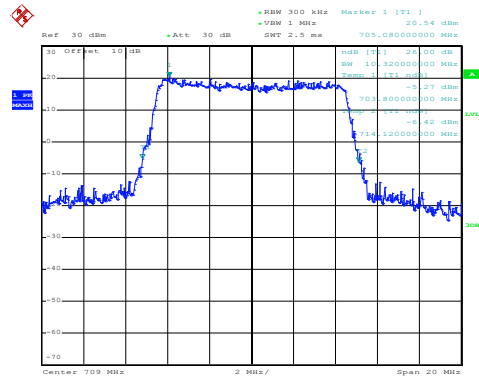
LTE Band 17: -26dBc bandwidth  
BW: 10MHz

## 16QAM



Date: 29.JUL.2020 11:51:18

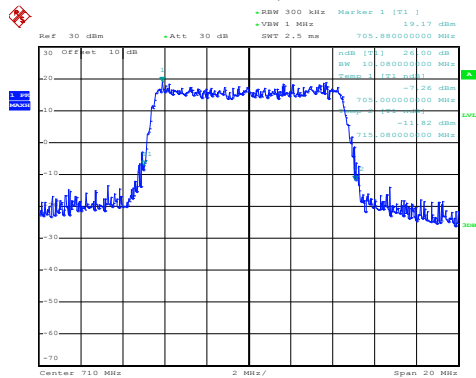
## QPSK



Date: 29.JUL.2020 11:51:15

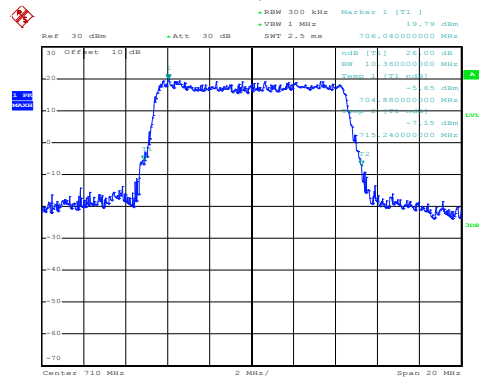
## Lowest channel

## 16QAM



Date: 29.JUL.2020 11:50:37

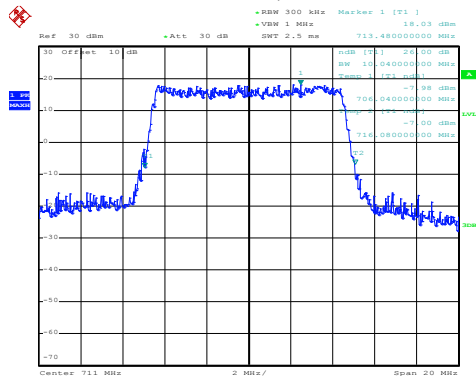
## QPSK



Date: 29.JUL.2020 11:50:33

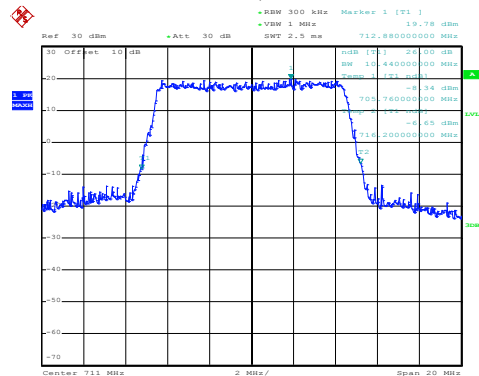
## Middle channel

## 16QAM



Date: 29.JUL.2020 11:50:25

## QPSK



Date: 29.JUL.2020 11:50:21

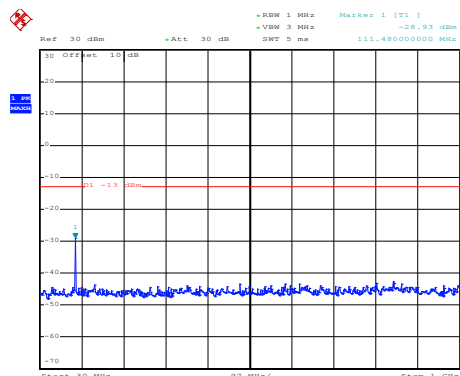
## Highest channel

## 6.4 Out of band emission at antenna terminals

Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m)
Limit:	<p>LTE Band 2 &amp; 4 &amp; 5 &amp; 12 &amp; 17: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log (P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log (P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log (P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than <math>43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log (P)</math> dB at or below 2490.5 MHz.</p>
Test Setup:	<pre> graph LR     SS[System simulator] --- S(( ))     SA[Spectrum Analyzer] --- S     S --- Splitter[Splitter]     Splitter --- ATT[ATT]     ATT --- EUT[EUT] </pre>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 For the out of band: For Band 5 &amp; 12 &amp; 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 &amp; 4 &amp; 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.</li> <li>3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

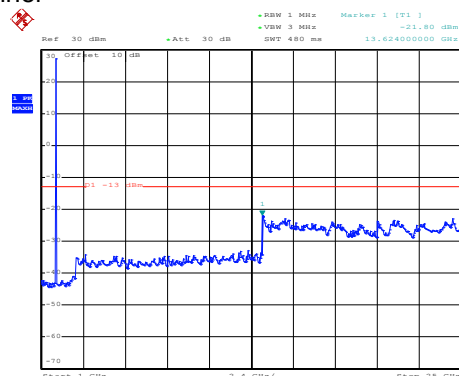
Test plots as follows (Conducted spurious emission) (worst case):  
LTE Band 2 part:

LTE Band 2: 16 QAM & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 29.JUL.2020 10:45:45

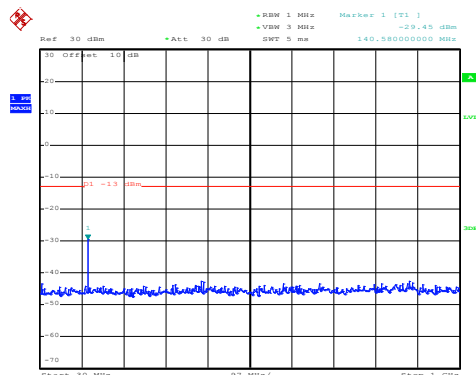
30MHz~1GHz



Date: 29.JUL.2020 10:44:15

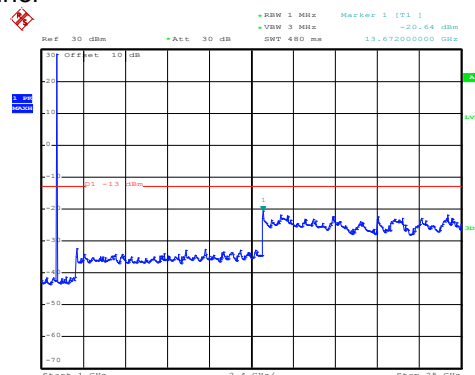
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:45:30

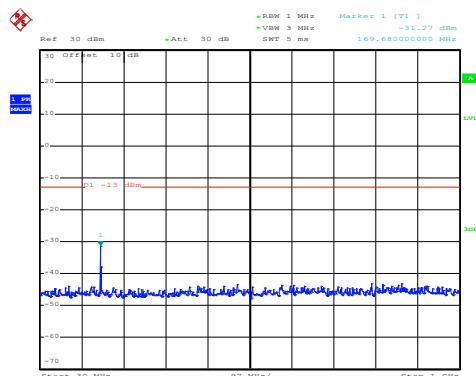
30MHz~1GHz



Date: 29.JUL.2020 10:44:39

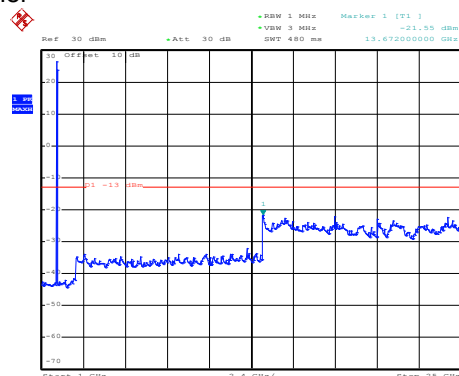
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:45:13

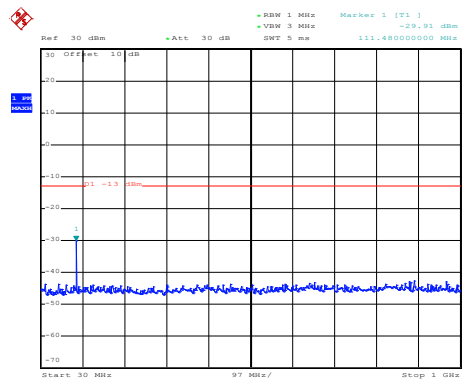
30MHz~1GHz



Date: 29.JUL.2020 10:44:56

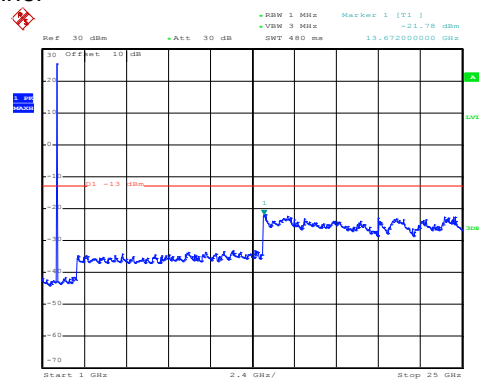
1GHz~25GHz

LTE Band 2: QPSK & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 29.JUL.2020 10:45:40

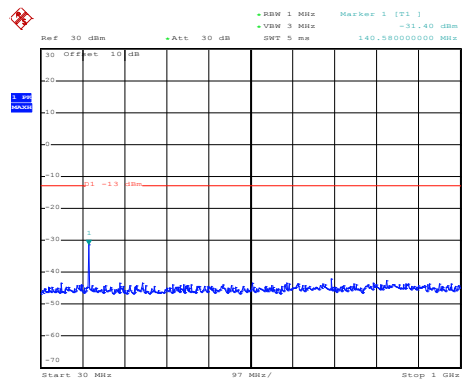
30MHz~1GHz



Date: 29.JUL.2020 10:44:09

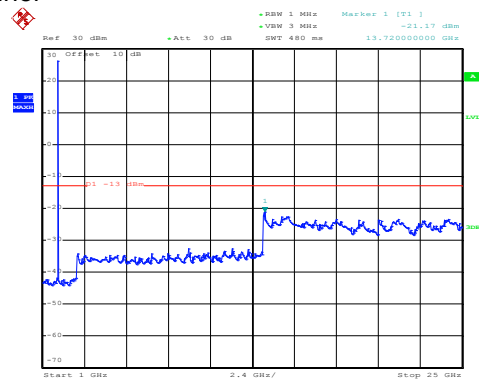
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:45:25

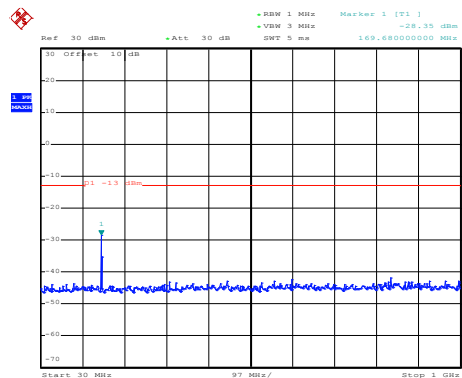
30MHz~1GHz



Date: 29.JUL.2020 10:44:27

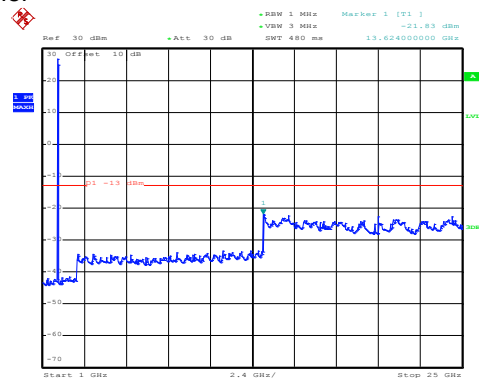
1GHz~25GHz

## High channel



Date: 29.JUL.2020 10:45:08

30MHz~1GHz

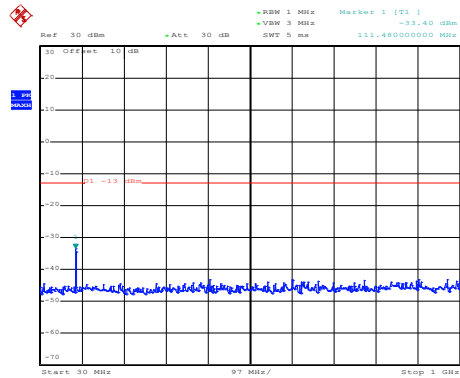


Date: 29.JUL.2020 10:44:50

1GHz~25GHz

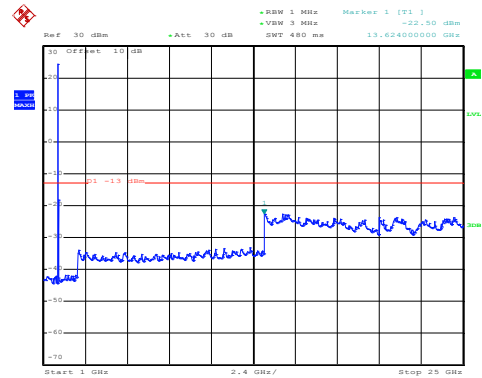


LTE Band 2: 16 QAM & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:46:11

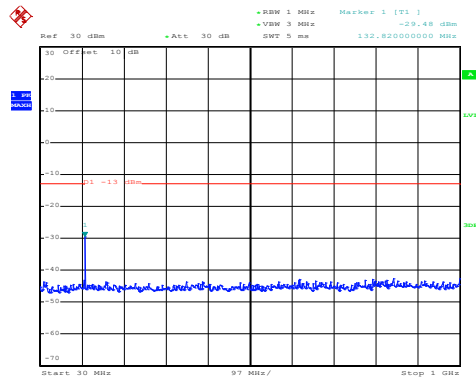
30MHz~1GHz



Date: 29.JUL.2020 10:47:45

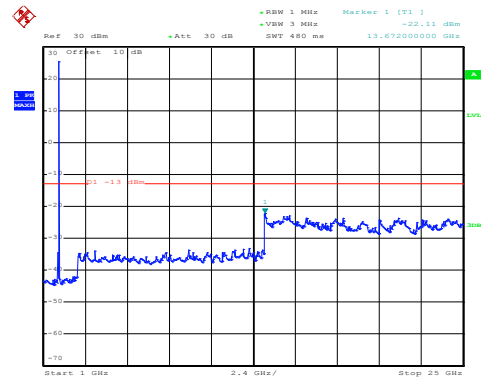
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:46:28

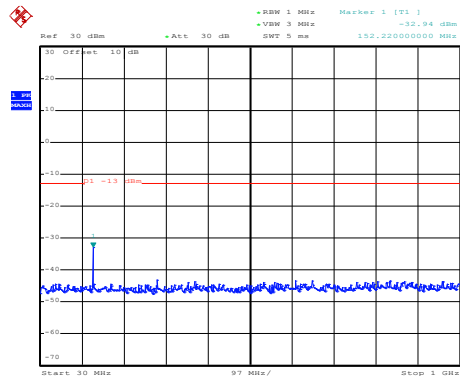
30MHz~1GHz



Date: 29.JUL.2020 10:47:27

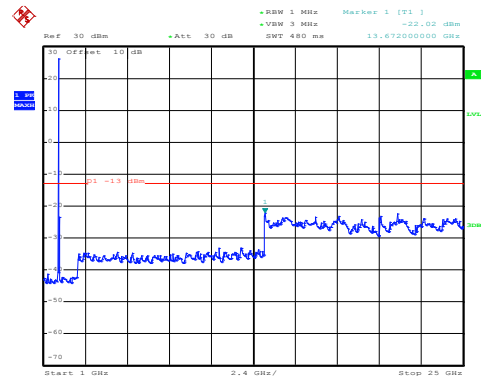
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:46:43

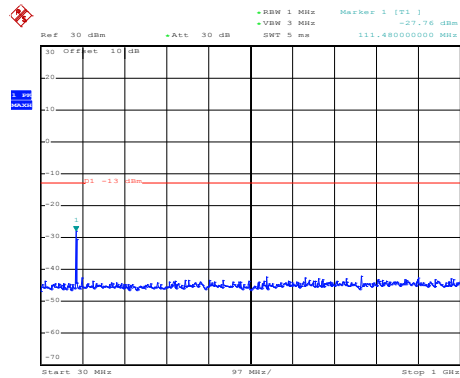
30MHz~1GHz



Date: 29.JUL.2020 10:47:08

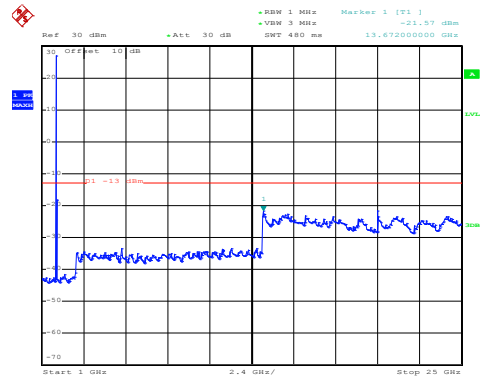
1GHz~25GHz

LTE Band 2: QPSK & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:46:07

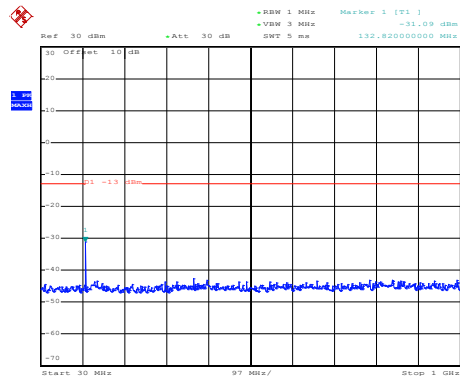
30MHz~1GHz



Date: 29.JUL.2020 10:47:38

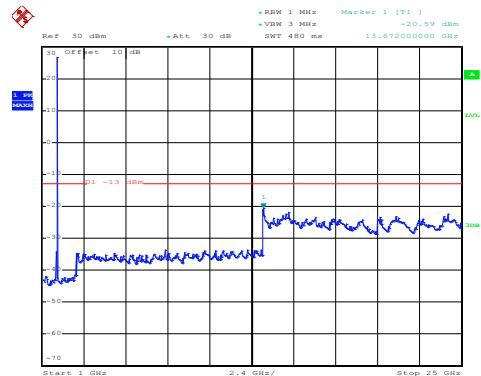
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:46:19

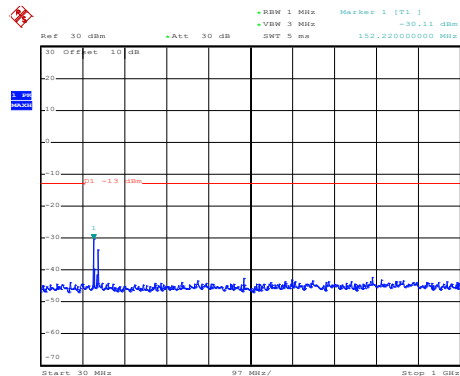
30MHz~1GHz



Date: 29.JUL.2020 10:47:21

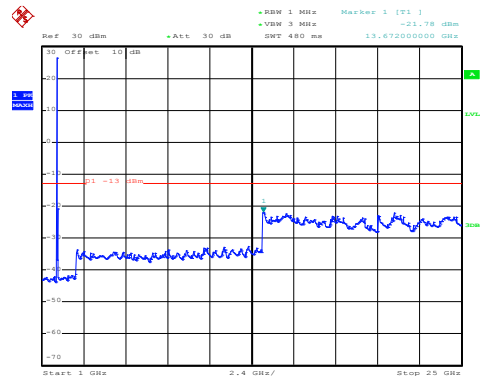
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:46:38

30MHz~1GHz



Date: 29.JUL.2020 10:47:01

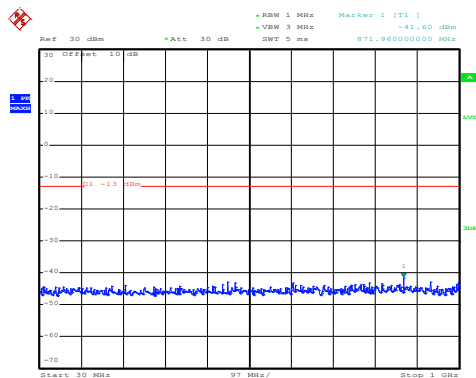
1GHz~25GHz

## LTE Band 4 part:

## LTE Band 4: 16 QAM &amp; RB Size 1

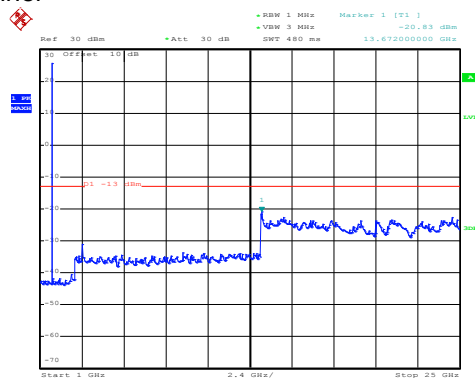
BW: 1.4MHz

Lowest channel



Date: 29.JUL.2020 10:42:13

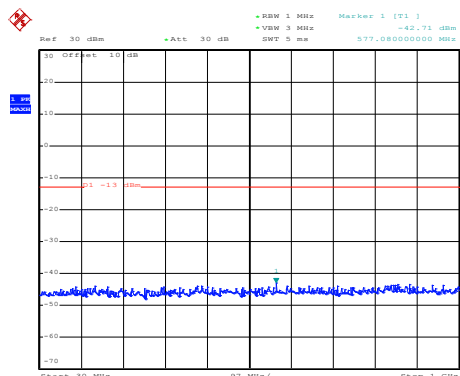
30MHz~1GHz



Date: 29.JUL.2020 10:43:54

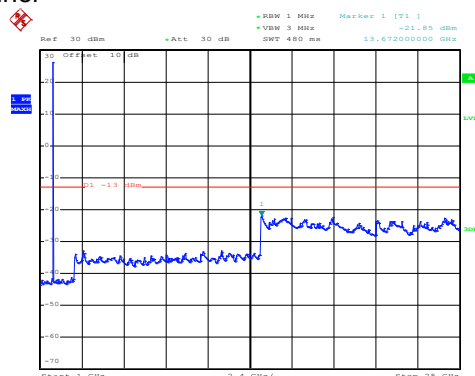
1GHz~25GHz

## Middle channel



Date: 29.JUL.2020 10:42:25

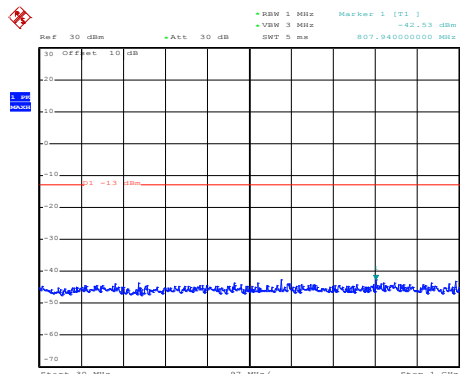
30MHz~1GHz



Date: 29.JUL.2020 10:43:33

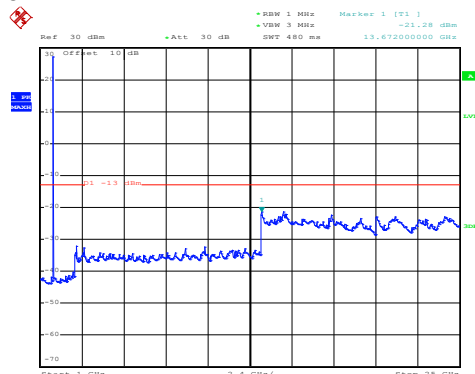
1GHz~25GHz

## High channel



Date: 29.JUL.2020 10:42:41

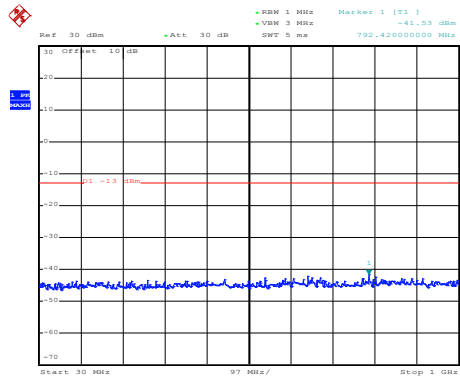
30MHz~1GHz



Date: 29.JUL.2020 10:43:11

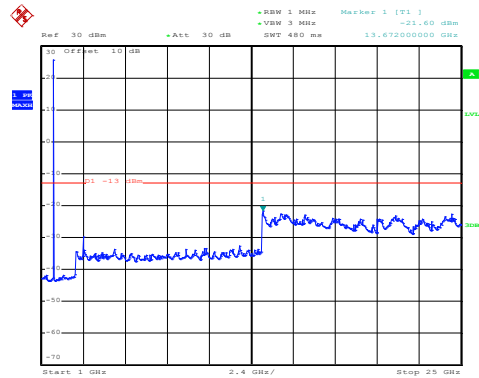
1GHz~25GHz

LTE Band 4: QPSK & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 29.JUL.2020 10:42:06

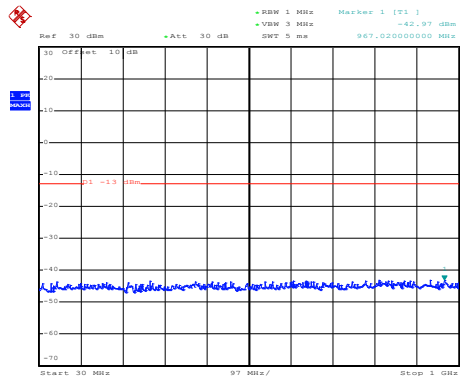
30MHz~1GHz



Date: 29.JUL.2020 10:43:46

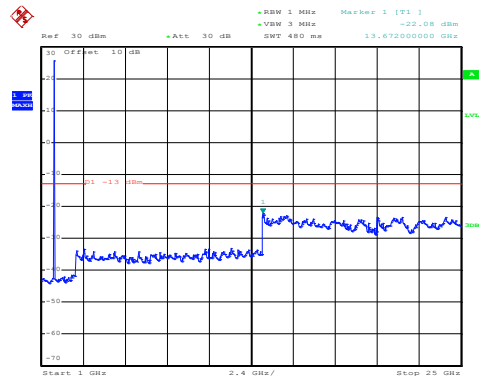
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:42:21

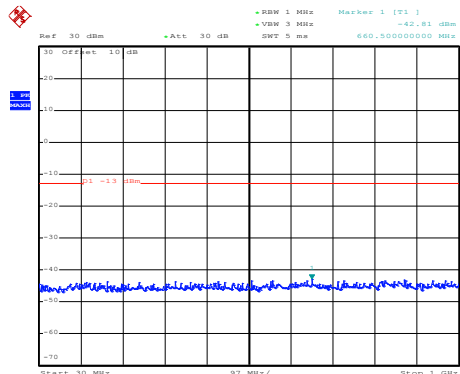
30MHz~1GHz



Date: 29.JUL.2020 10:43:21

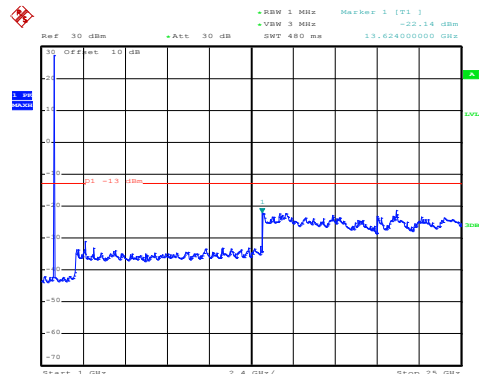
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:42:37

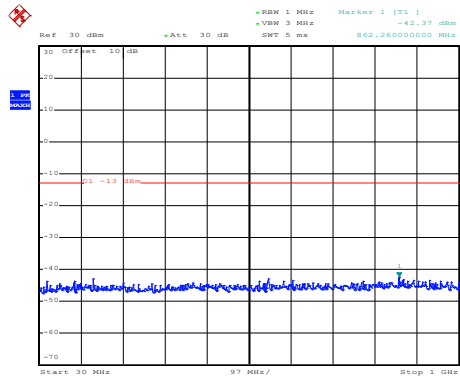
30MHz~1GHz



Date: 29.JUL.2020 10:42:58

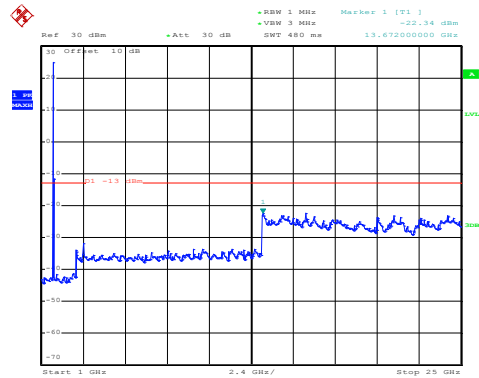
1GHz~25GHz

LTE Band 4: 16 QAM & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:50:11

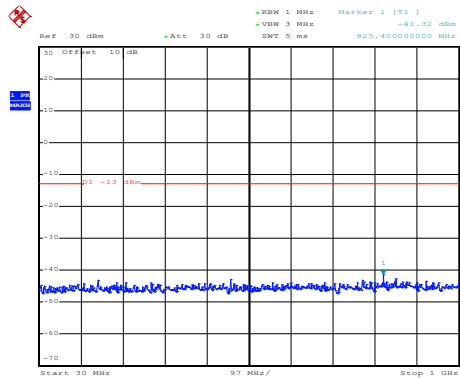
30MHz~1GHz



Date: 29.JUL.2020 10:48:35

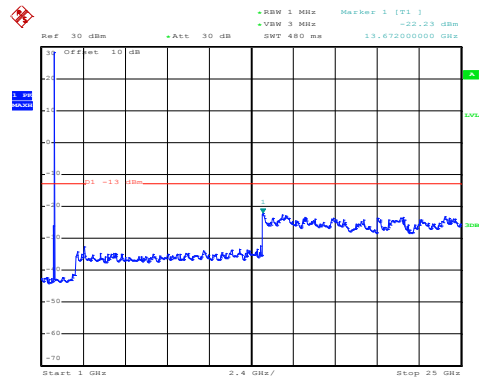
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:49:53

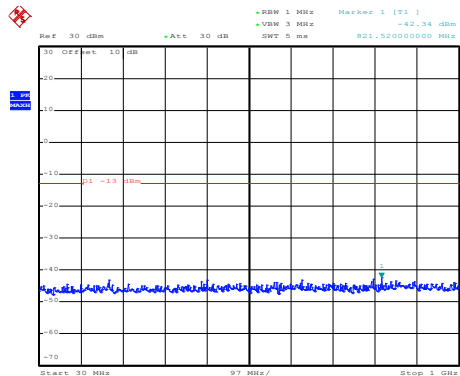
30MHz~1GHz



Date: 29.JUL.2020 10:48:55

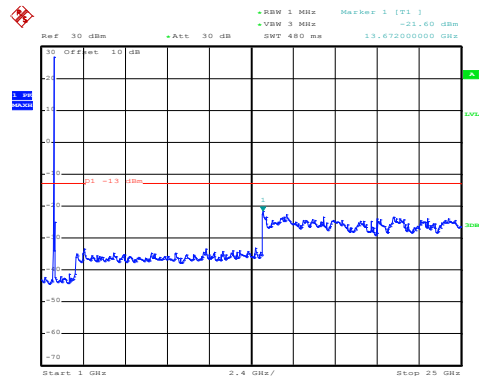
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:49:40

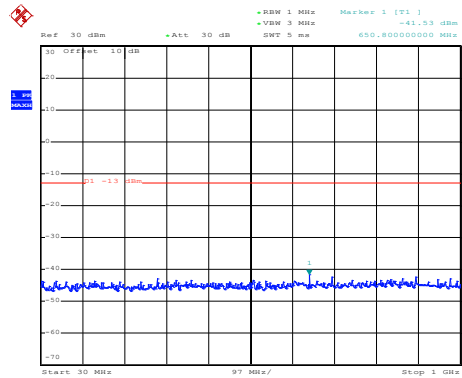
30MHz~1GHz



Date: 29.JUL.2020 10:49:23

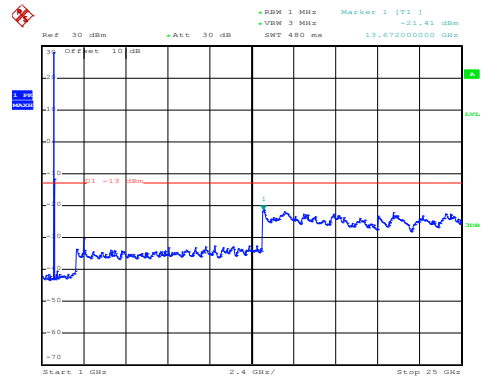
1GHz~25GHz

LTE Band 4: QPSK & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:50:05

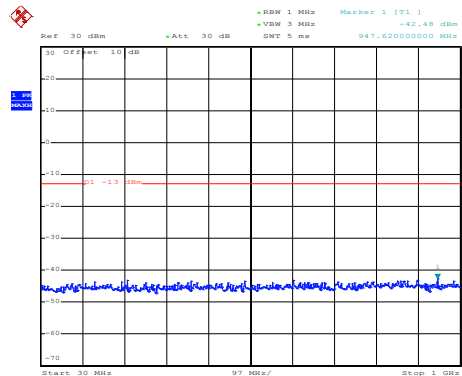
30MHz~1GHz



Date: 29.JUL.2020 10:48:28

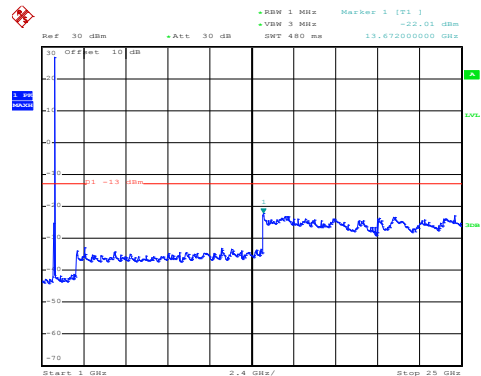
1GHz~25GHz

Middle channel



Date: 29.JUL.2020 10:49:48

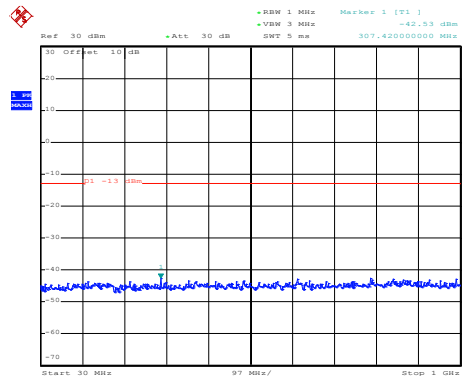
30MHz~1GHz



Date: 29.JUL.2020 10:48:47

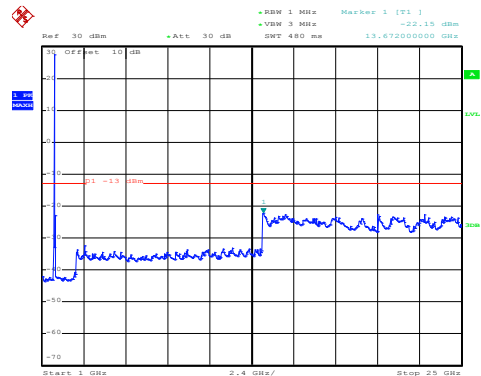
1GHz~25GHz

High channel



Date: 29.JUL.2020 10:49:34

30MHz~1GHz



Date: 29.JUL.2020 10:49:15

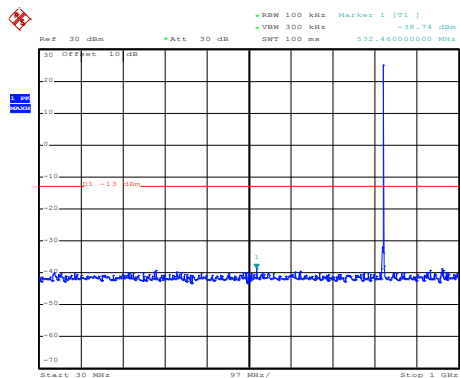
1GHz~25GHz

## LTE Band 5 part:

## LTE Band 5: 16 QAM &amp; RB Size 1

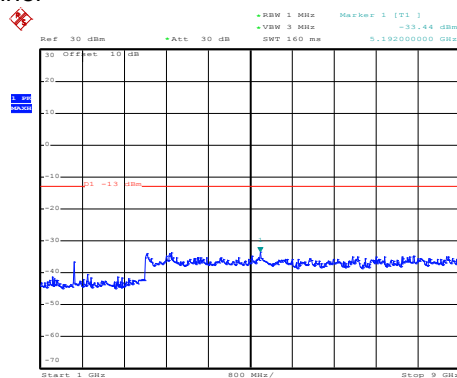
BW: 1.4MHz

Lowest channel



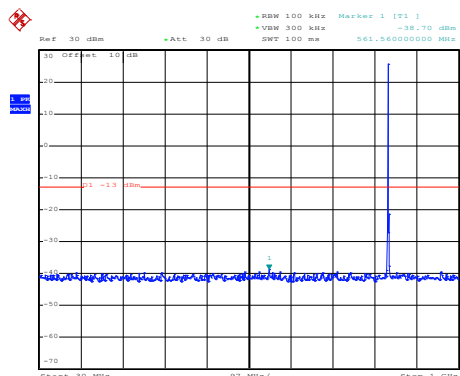
Date: 29.JUL.2020 10:36:23

30MHz~1GHz



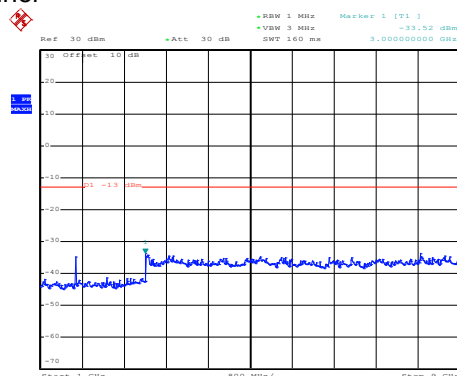
Date: 29.JUL.2020 10:37:58

1GHz~9GHz



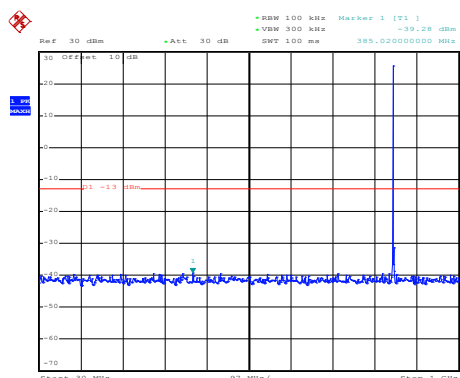
Date: 29.JUL.2020 10:36:45

30MHz~1GHz



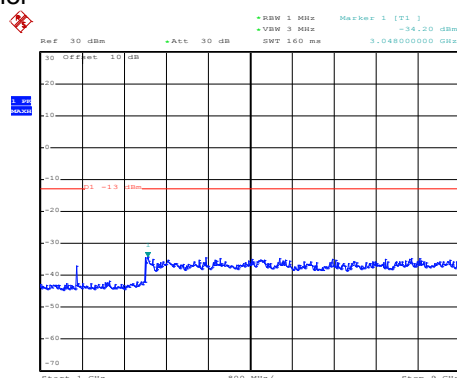
Date: 29.JUL.2020 10:37:41

1GHz~9GHz



Date: 29.JUL.2020 10:37:03

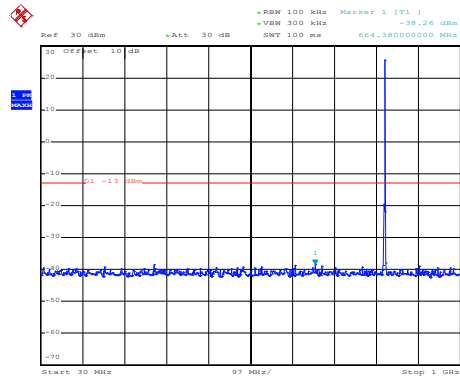
30MHz~1GHz



Date: 29.JUL.2020 10:37:25

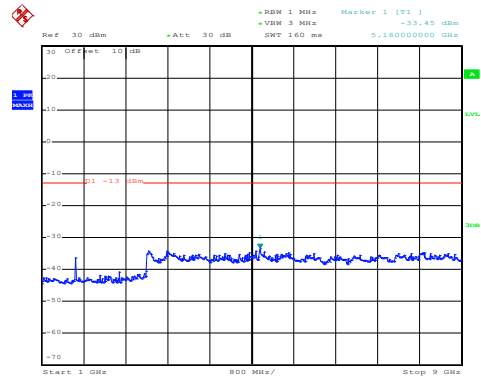
1GHz~9GHz

LTE Band 5: QPSK & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 29.JUL.2020 10:36:15

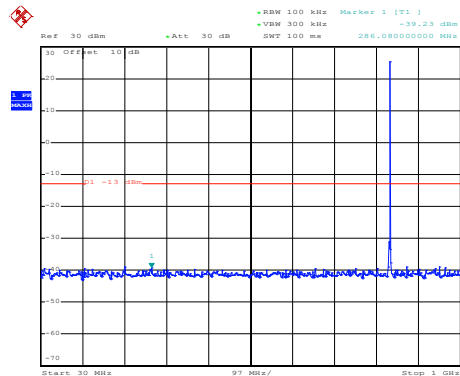
30MHz~1GHz



Date: 29.JUL.2020 10:37:52

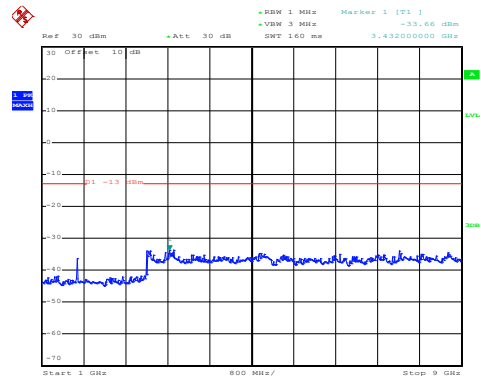
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:36:37

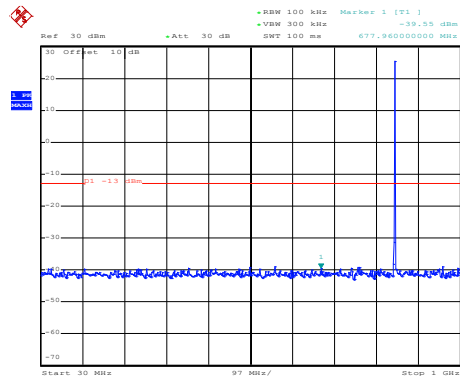
30MHz~1GHz



Date: 29.JUL.2020 10:37:34

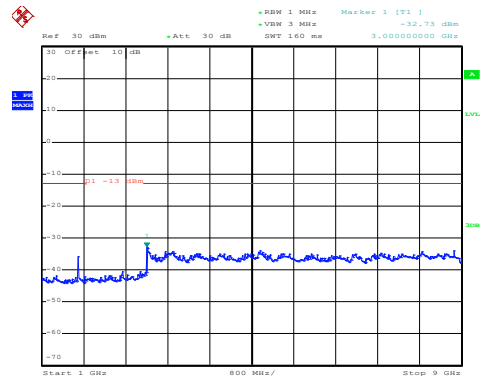
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:36:56

30MHz~1GHz

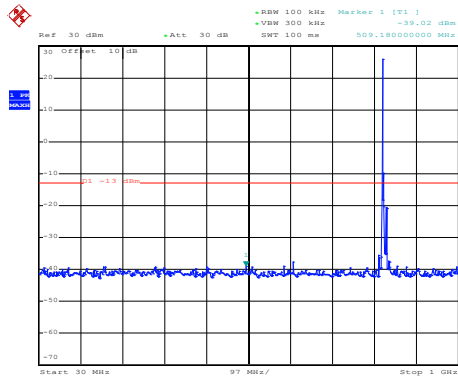


Date: 29.JUL.2020 10:37:20

1GHz~9GHz

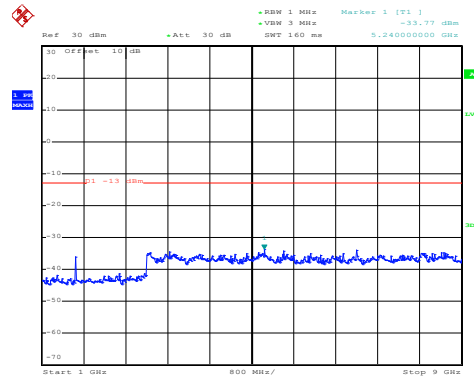


LTE Band 5: 16 QAM & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:35:50

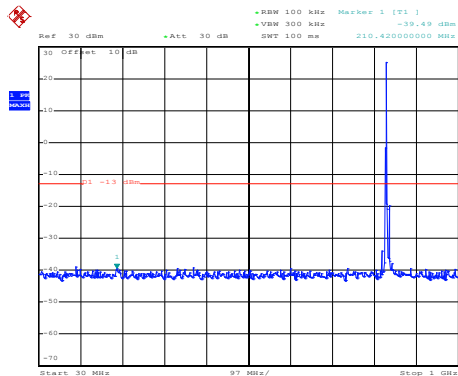
30MHz~1GHz



Date: 29.JUL.2020 10:33:58

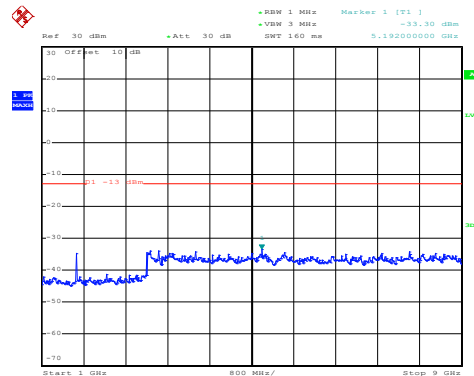
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:35:16

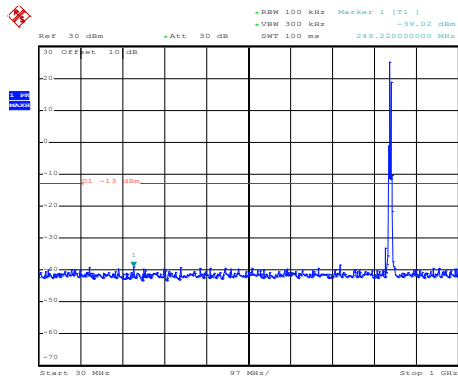
30MHz~1GHz



Date: 29.JUL.2020 10:34:13

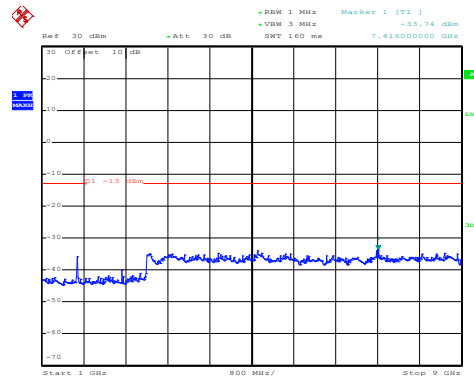
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:34:58

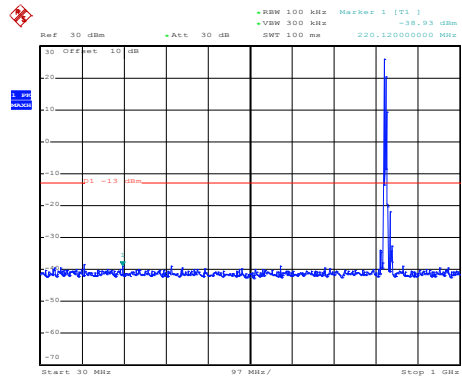
30MHz~1GHz



Date: 29.JUL.2020 10:34:30

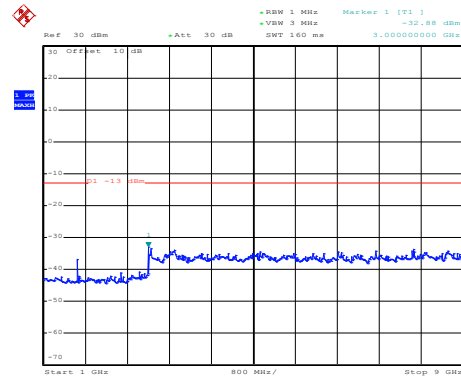
1GHz~9GHz

LTE Band 5: QPSK & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:35:27

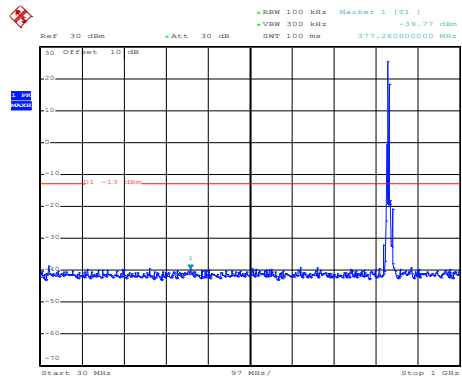
30MHz~1GHz



Date: 29.JUL.2020 10:33:52

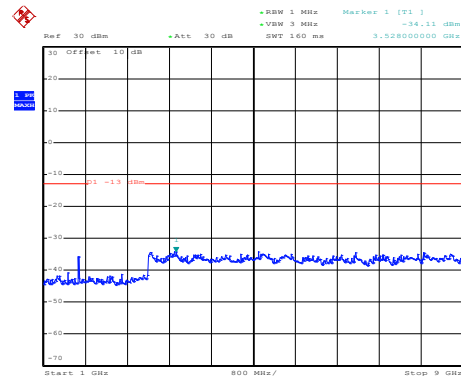
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:35:09

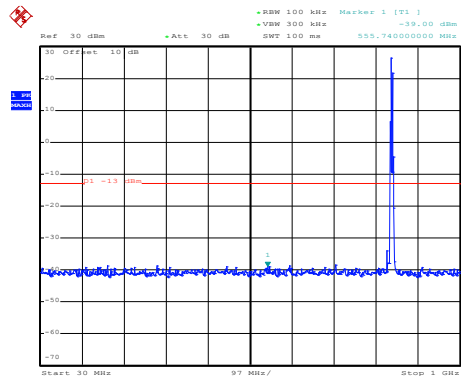
30MHz~1GHz



Date: 29.JUL.2020 10:34:07

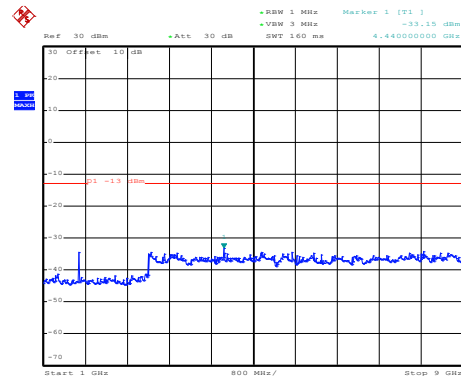
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:34:49

30MHz~1GHz



Date: 29.JUL.2020 10:34:24

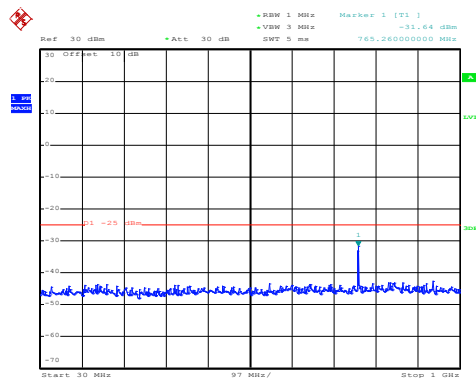
1GHz~9GHz

## LTE Band 7 part:

## LTE Band 7: 16 QAM &amp; RB Size 1

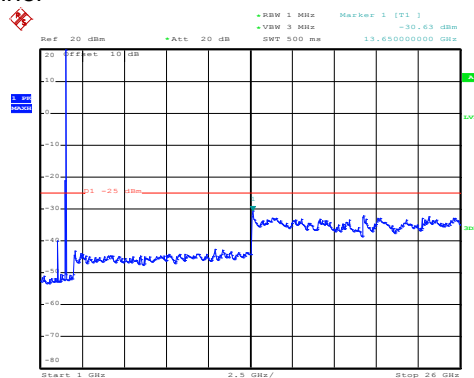
BW: 5MHz

Lowest channel



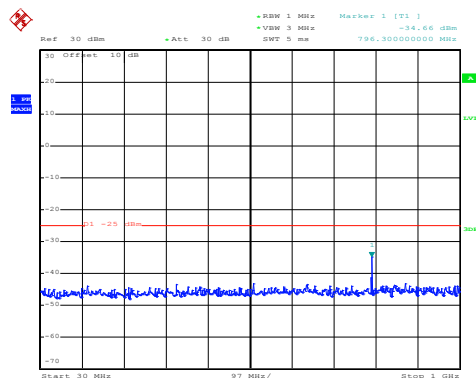
Date: 29.JUL.2020 10:27:30

30MHz~1GHz



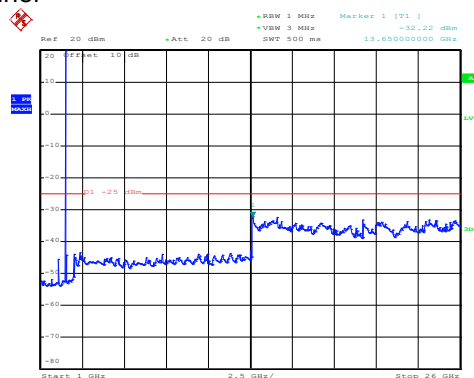
Date: 29.JUL.2020 10:25:55

1GHz~26GHz



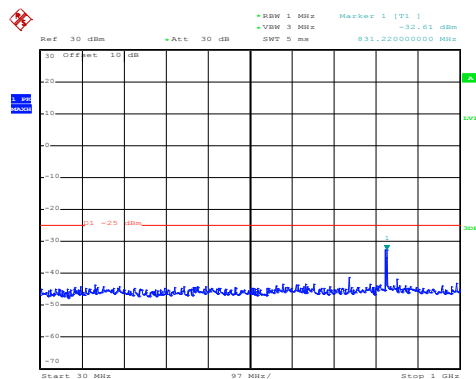
Date: 29.JUL.2020 10:27:16

30MHz~1GHz



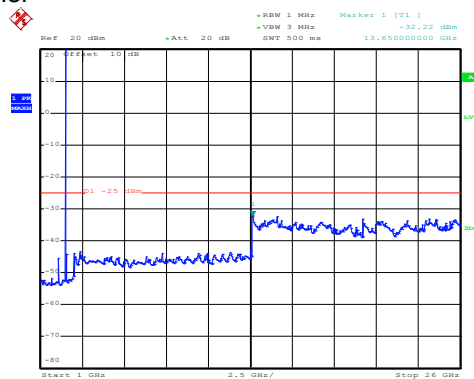
Date: 29.JUL.2020 10:26:18

1GHz~26GHz



Date: 29.JUL.2020 10:27:04

30MHz~1GHz



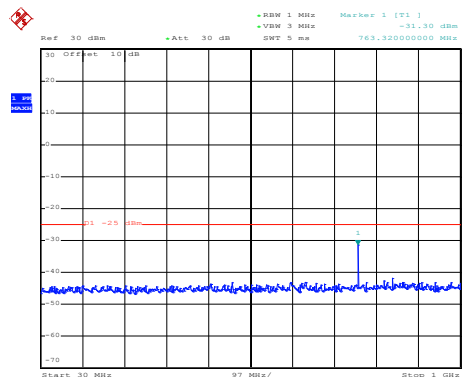
Date: 29.JUL.2020 10:26:18

1GHz~26GHz

## LTE Band 7: QPSK &amp; RB Size 1

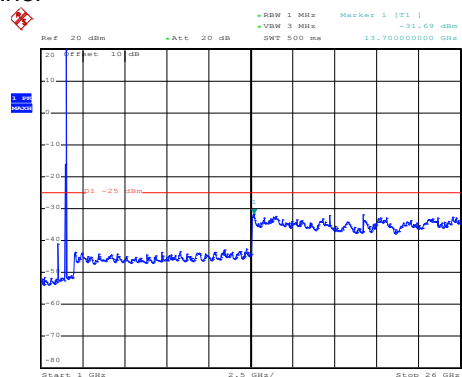
BW: 5MHz

## Lowest channel



Date: 29.JUL.2020 10:27:26

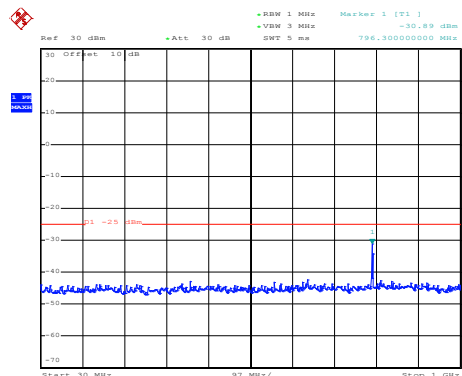
30MHz~1GHz



Date: 29.JUL.2020 10:25:43

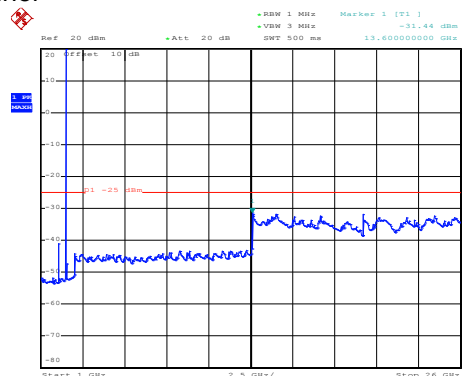
1GHz~26GHz

## Middle channel



Date: 29.JUL.2020 10:27:12

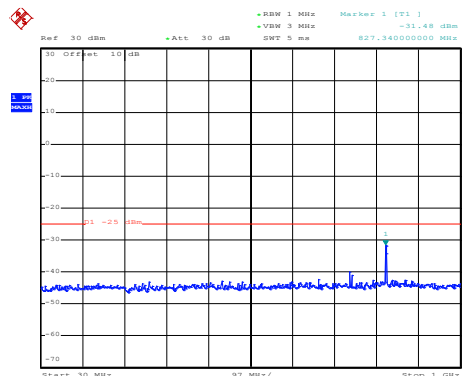
30MHz~1GHz



Date: 29.JUL.2020 10:26:13

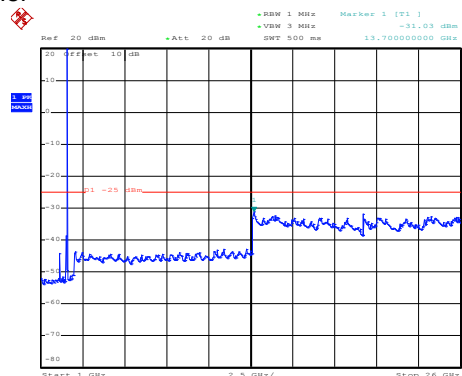
1GHz~26GHz

## High channel



Date: 29.JUL.2020 10:26:59

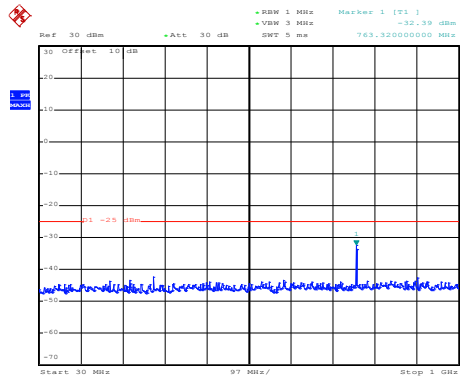
30MHz~1GHz



Date: 29.JUL.2020 10:26:32

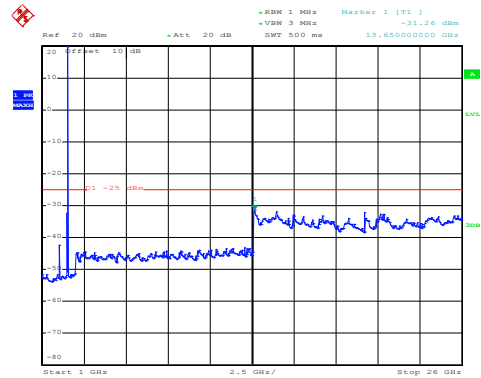
1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:23:52

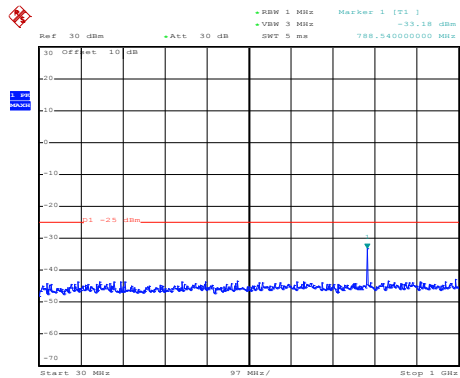
30MHz~1GHz



Date: 29.JUL.2020 10:24:27

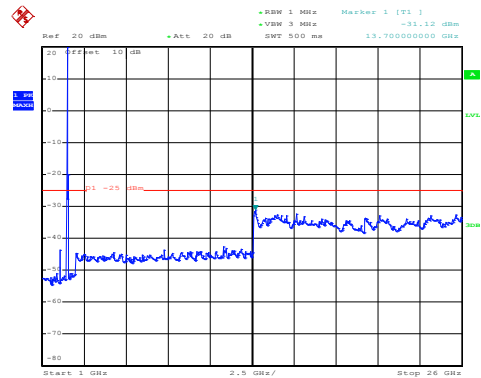
1GHz~26GHz

Middle channel



Date: 29.JUL.2020 10:23:38

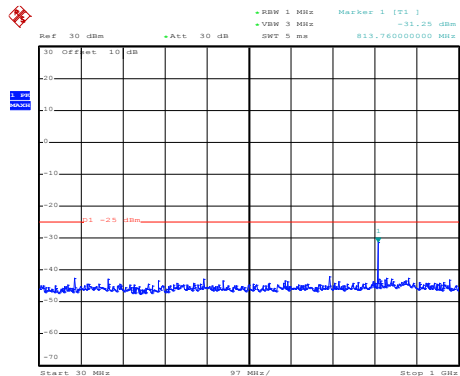
30MHz~1GHz



Date: 29.JUL.2020 10:24:47

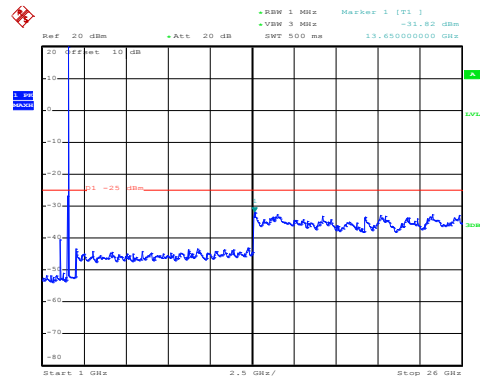
1GHz~26GHz

High channel



Date: 29.JUL.2020 10:23:24

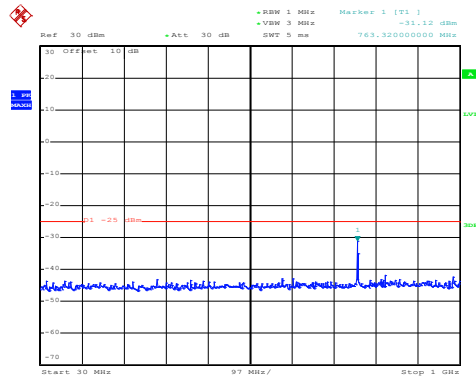
30MHz~1GHz



Date: 29.JUL.2020 10:25:17

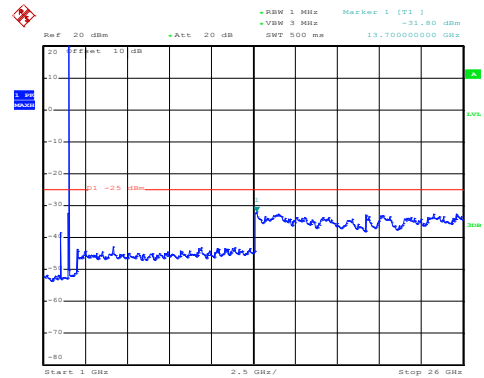
1GHz~26GHz

LTE Band 7: QPSK & RB Size 1  
BW: 20MHz  
Lowest channel



Date: 29.JUL.2020 10:23:48

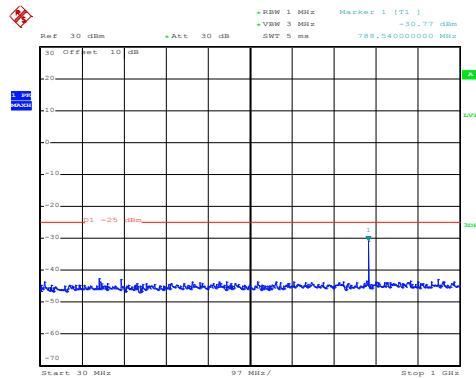
30MHz~1GHz



Date: 29.JUL.2020 10:24:15

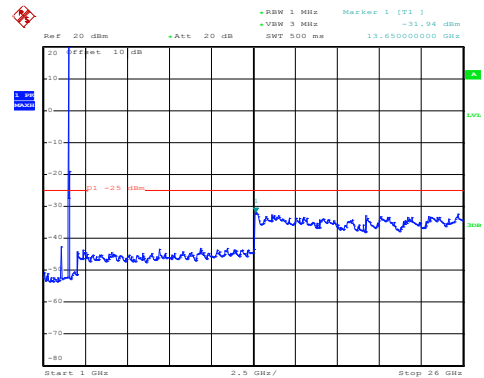
1GHz~26GHz

Middle channel



Date: 29.JUL.2020 10:23:33

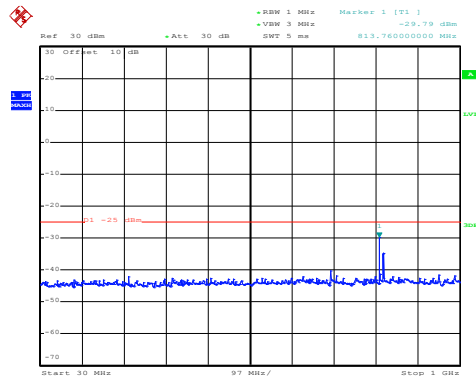
30MHz~1GHz



Date: 29.JUL.2020 10:24:39

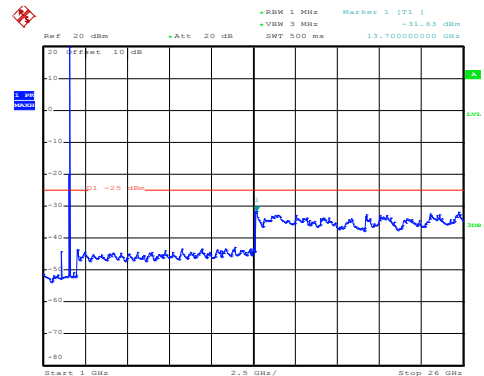
1GHz~26GHz

High channel



Date: 29.JUL.2020 10:23:13

30MHz~1GHz

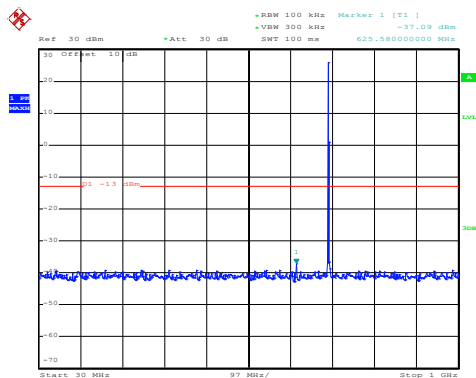


Date: 29.JUL.2020 10:25:04

1GHz~26GHz

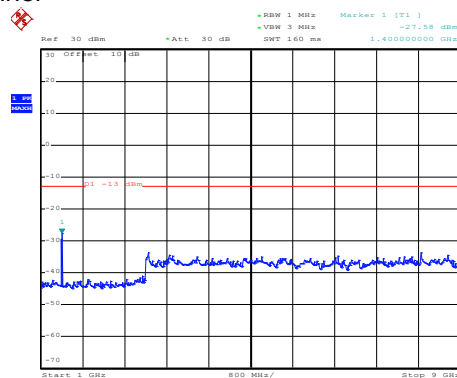
## LTE Band 12 part:

## LTE Band 12: 16 QAM &amp; RB Size 1

BW: 1.4MHz  
Lowest channel

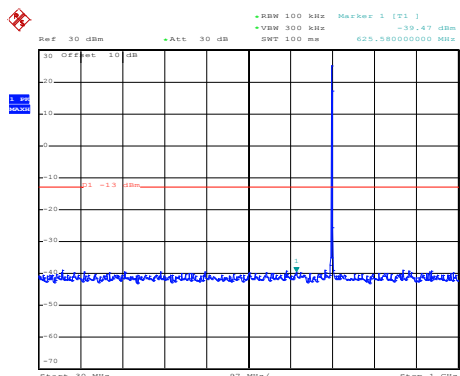
Date: 29.JUL.2020 10:40:53

30MHz~1GHz



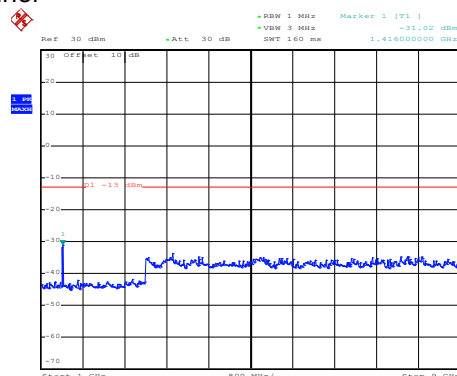
Date: 29.JUL.2020 10:38:18

1GHz~9GHz



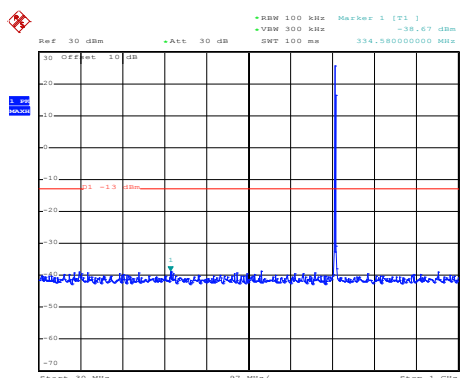
Date: 29.JUL.2020 10:41:24

30MHz~1GHz



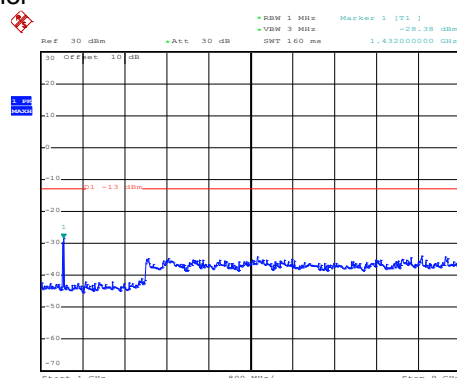
Date: 29.JUL.2020 10:38:33

1GHz~9GHz



Date: 29.JUL.2020 10:41:45

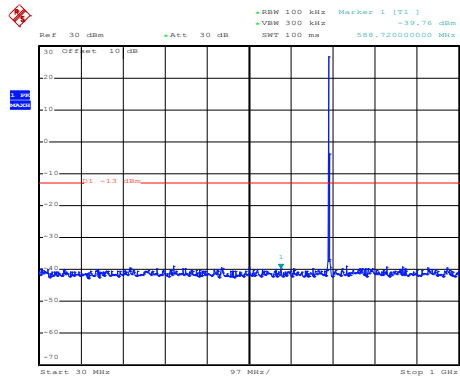
30MHz~1GHz



Date: 29.JUL.2020 10:38:47

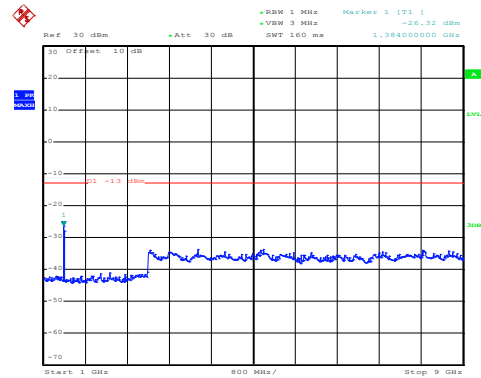
1GHz~9GHz

LTE Band 12: QPSK & RB Size 1  
BW: 1.4MHz  
Lowest channel



Date: 29.JUL.2020 10:41:02

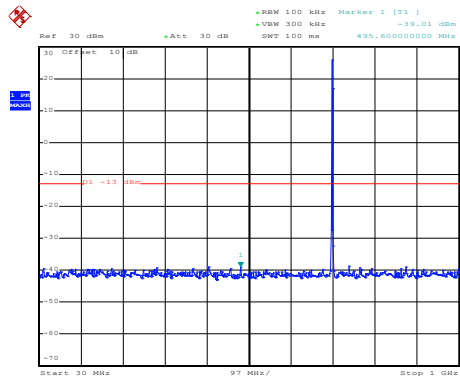
30MHz~1GHz



Date: 29.JUL.2020 10:38:13

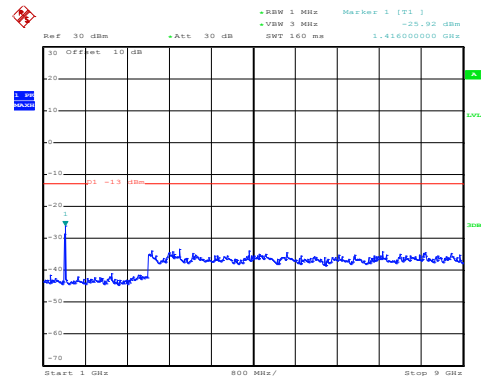
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:41:16

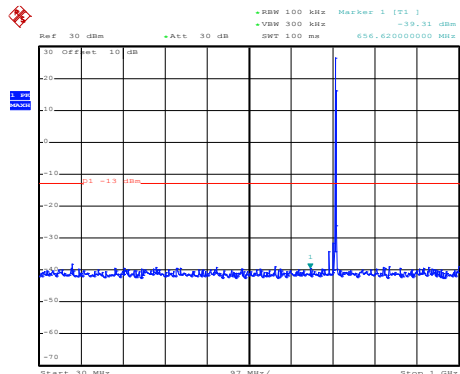
30MHz~1GHz



Date: 29.JUL.2020 10:38:28

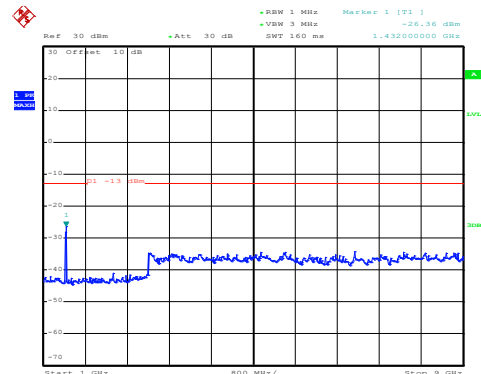
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:41:37

30MHz~1GHz

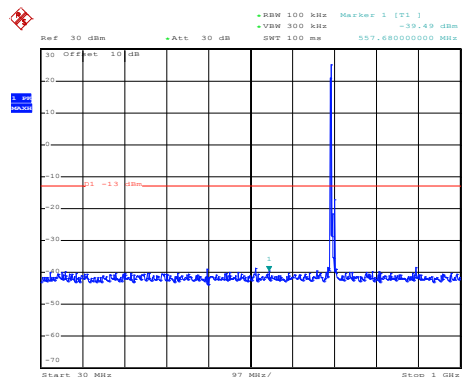


Date: 29.JUL.2020 10:38:42

1GHz~9GHz

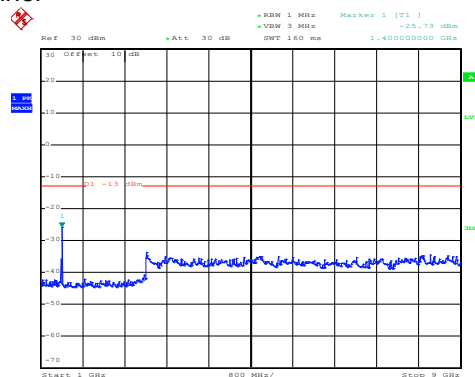


LTE Band 12: 16 QAM & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:32:01

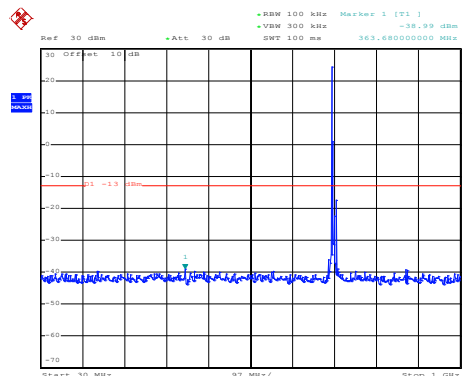
30MHz~1GHz



Date: 29.JUL.2020 10:33:33

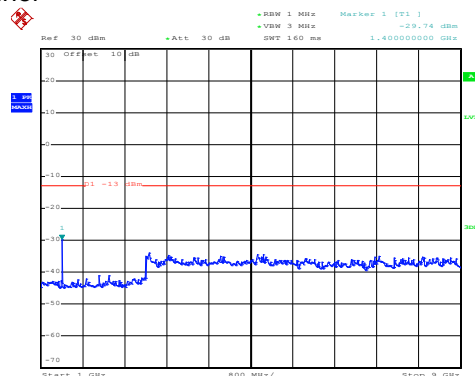
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:32:17

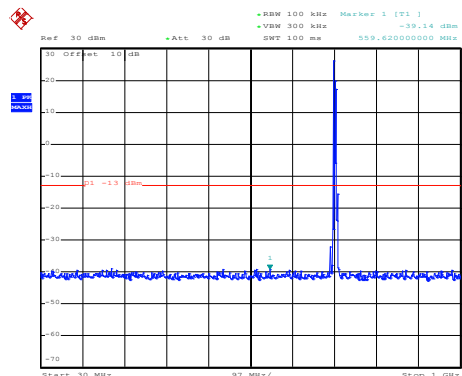
30MHz~1GHz



Date: 29.JUL.2020 10:33:17

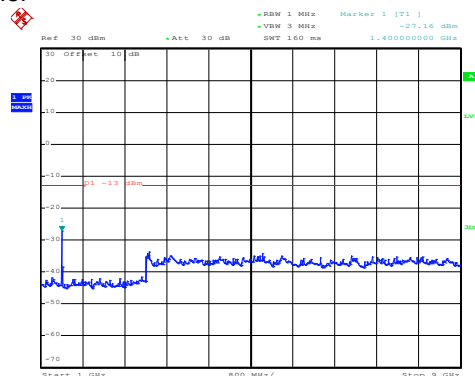
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:32:42

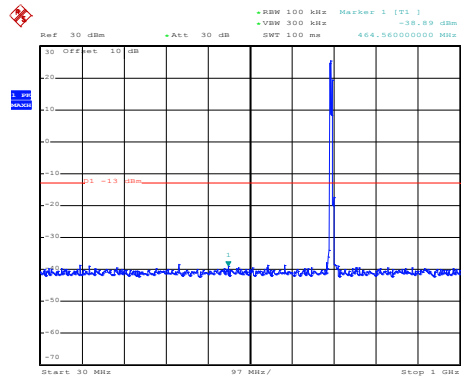
30MHz~1GHz



Date: 29.JUL.2020 10:33:05

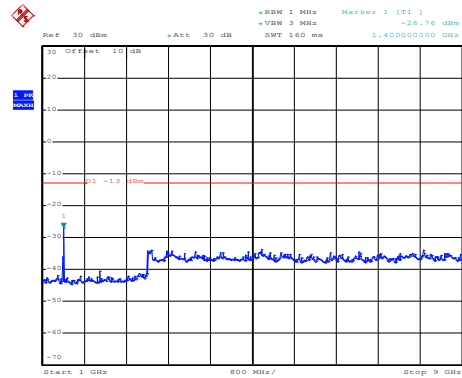
1GHz~9GHz

LTE Band 12: QPSK & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:31:55

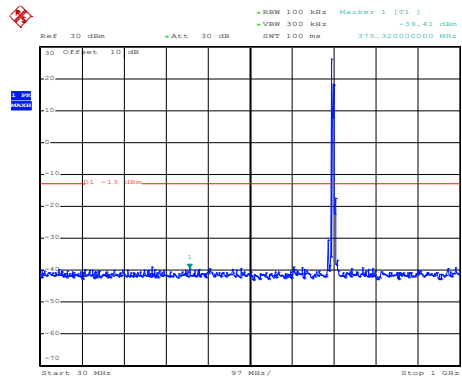
30MHz~1GHz



Date: 29.JUL.2020 10:33:28

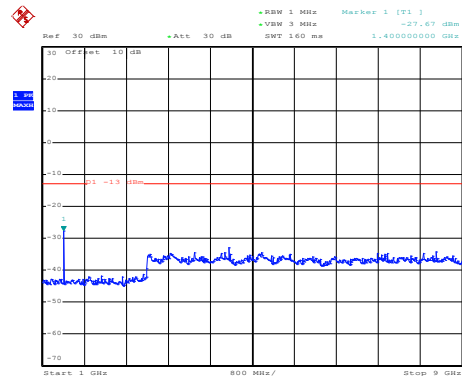
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:32:12

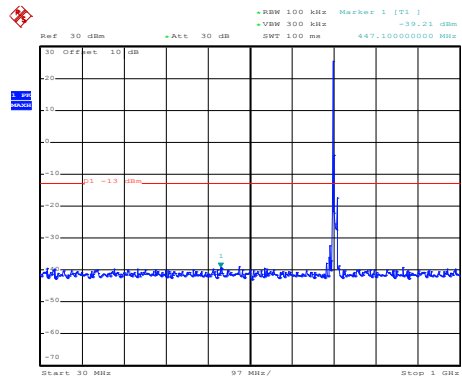
30MHz~1GHz



Date: 29.JUL.2020 10:33:12

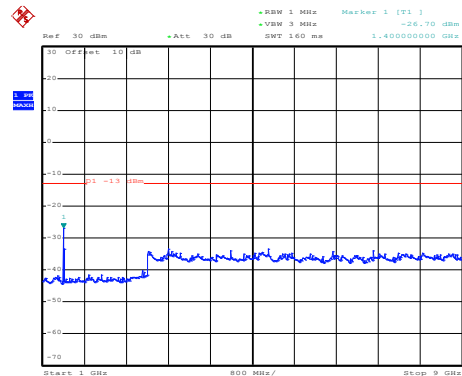
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:32:32

30MHz~1GHz



Date: 29.JUL.2020 10:32:57

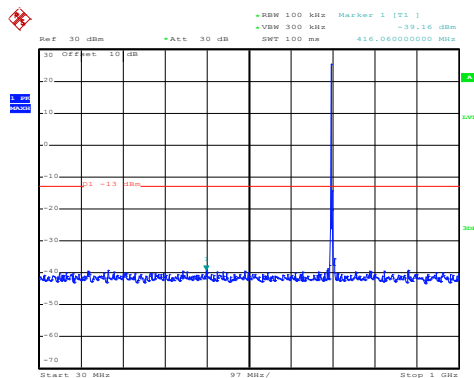
1GHz~9GHz

## LTE Band 17 part:

## LTE Band 17: 16 QAM &amp; RB Size 1

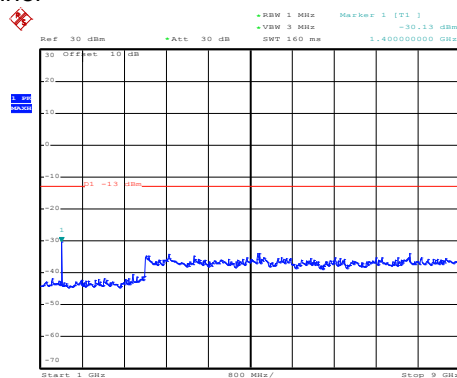
BW: 5MHz

Lowest channel



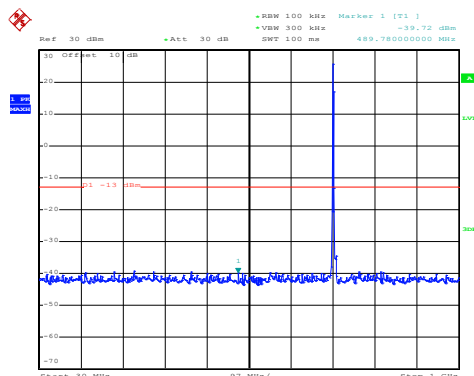
Date: 29.JUL.2020 10:28:05

30MHz~1GHz



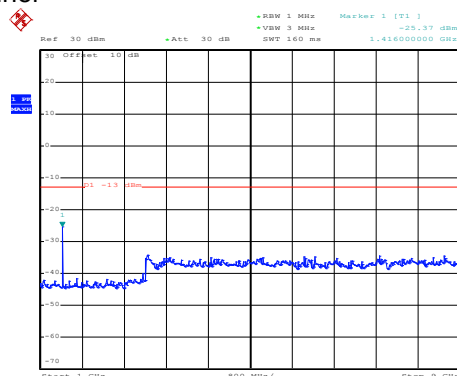
Date: 29.JUL.2020 10:29:27

1GHz~9GHz



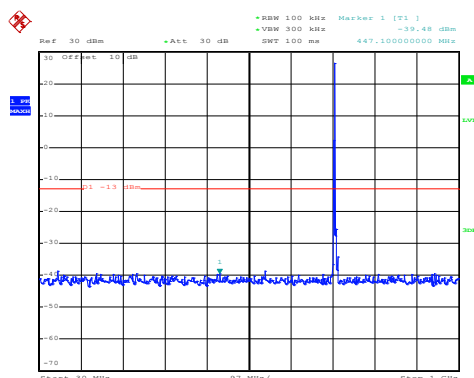
Date: 29.JUL.2020 10:28:22

30MHz~1GHz



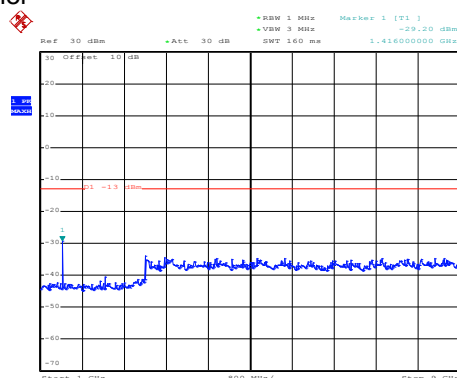
Date: 29.JUL.2020 10:29:12

1GHz~9GHz



Date: 29.JUL.2020 10:28:40

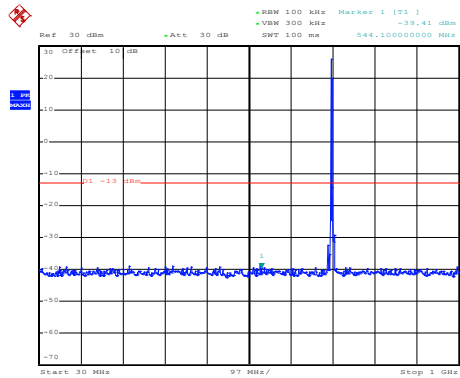
30MHz~1GHz



Date: 29.JUL.2020 10:28:59

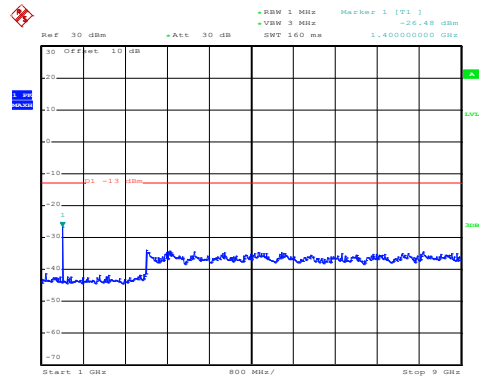
1GHz~9GHz

LTE Band 17: QPSK & RB Size 1  
BW: 5MHz  
Lowest channel



Date: 29.JUL.2020 10:27:58

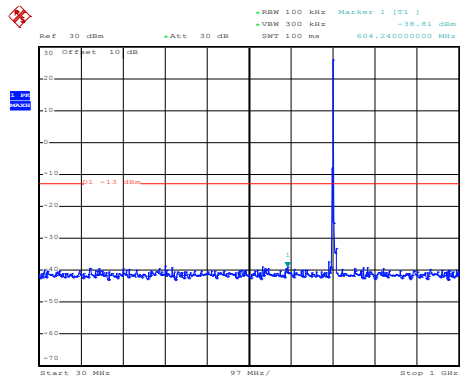
30MHz~1GHz



Date: 29.JUL.2020 10:29:21

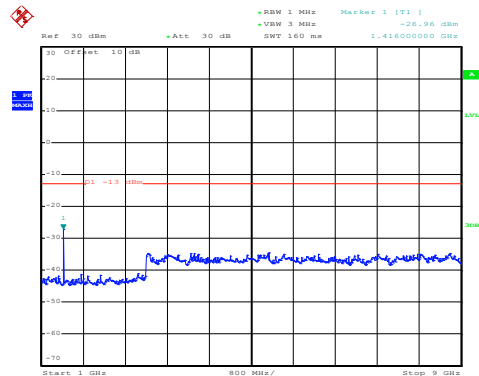
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:28:16

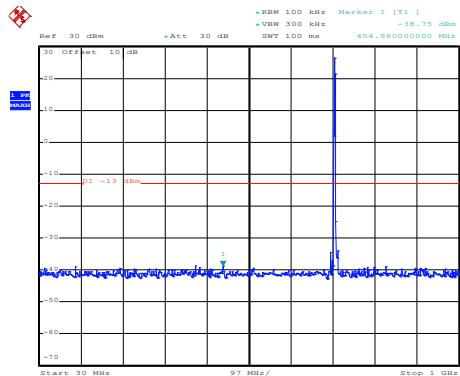
30MHz~1GHz



Date: 29.JUL.2020 10:29:07

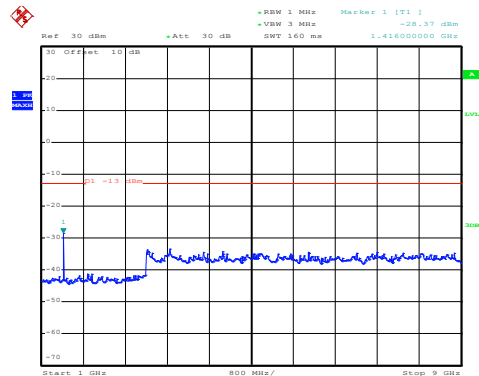
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:28:34

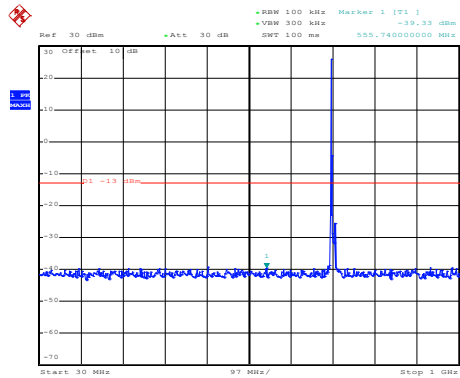
30MHz~1GHz



Date: 29.JUL.2020 10:28:54

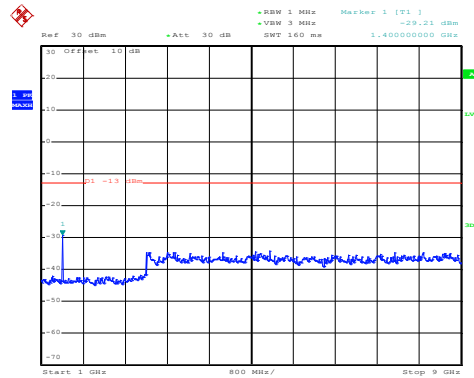
1GHz~9GHz

LTE Band 17: 16 QAM & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:31:39

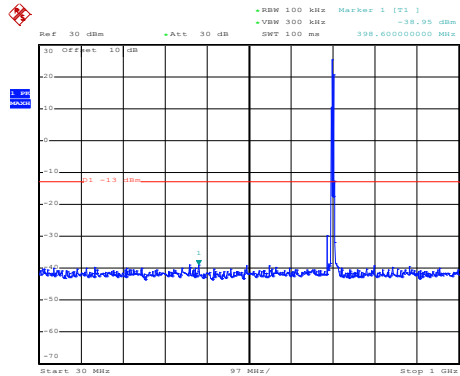
30MHz~1GHz



Date: 29.JUL.2020 10:29:59

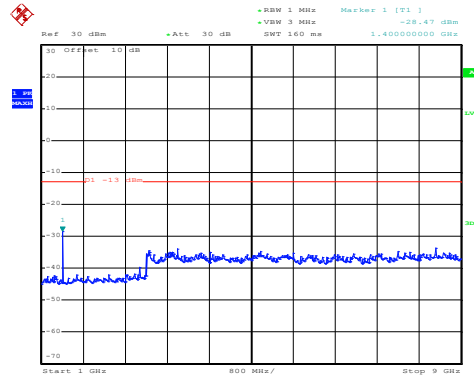
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:31:20

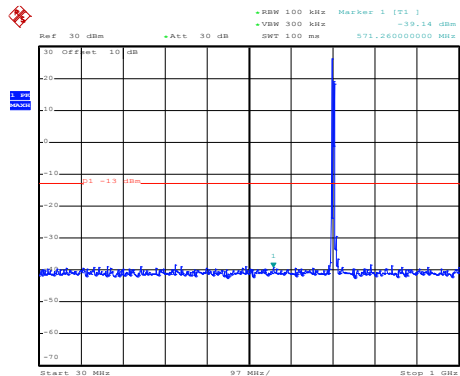
30MHz~1GHz



Date: 29.JUL.2020 10:30:13

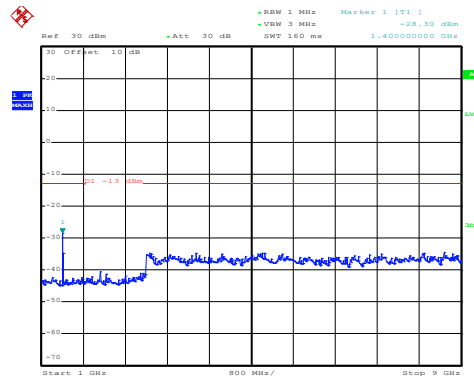
1GHz~9GHz

High channel



Date: 29.JUL.2020 10:31:04

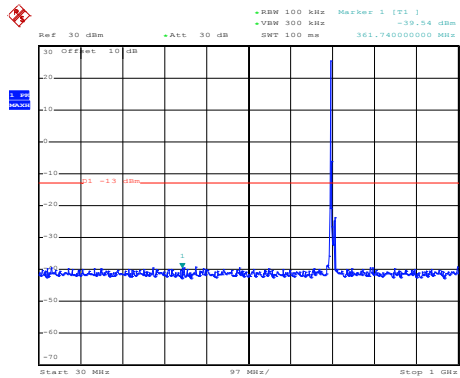
30MHz~1GHz



Date: 29.JUL.2020 10:30:28

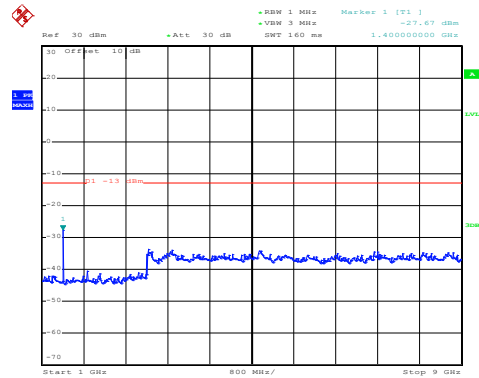
1GHz~9GHz

LTE Band 17: QPSK & RB Size 1  
BW: 10MHz  
Lowest channel



Date: 29.JUL.2020 10:31:32

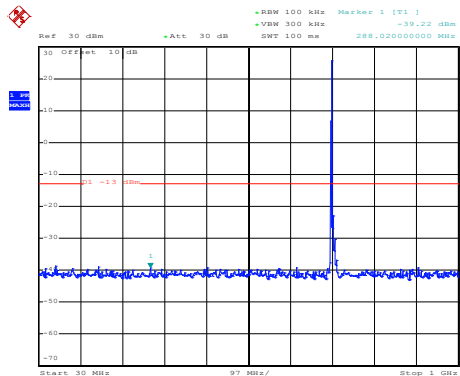
30MHz~1GHz



Date: 29.JUL.2020 10:29:54

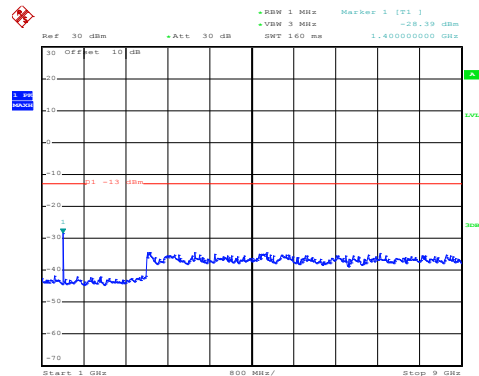
1GHz~9GHz

Middle channel



Date: 29.JUL.2020 10:31:14

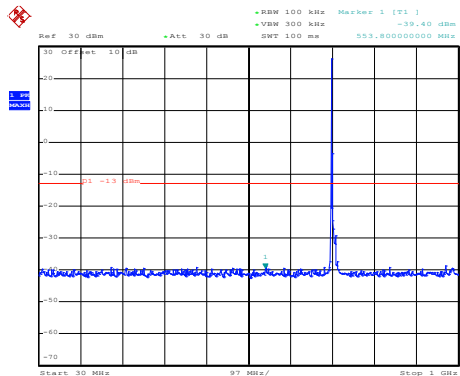
30MHz~1GHz



Date: 29.JUL.2020 10:30:08

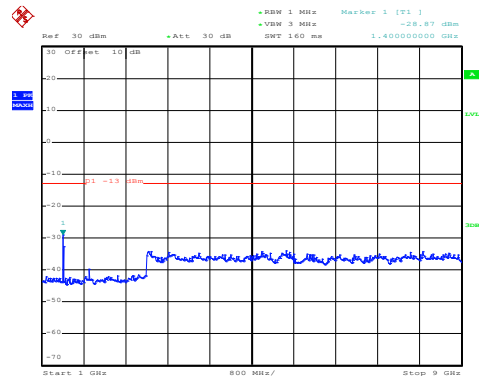
1GHz~9GHz

High channel



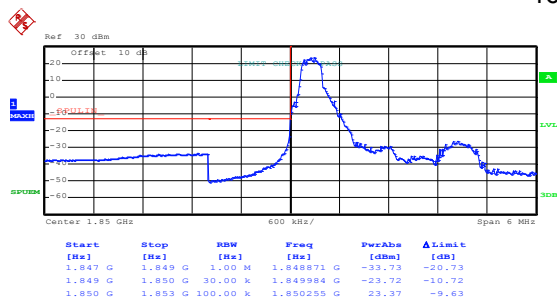
Date: 29.JUL.2020 10:30:48

30MHz~1GHz



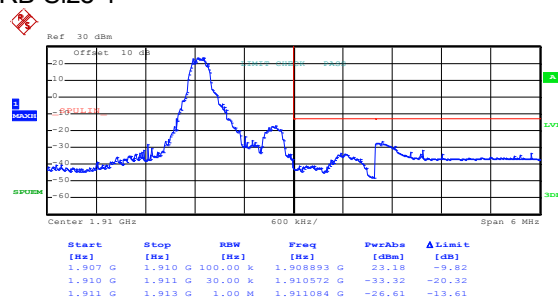
Date: 29.JUL.2020 10:30:23

1GHz~9GHz

**Band edge emission:****LTE Band 2 part:****LTE Band 2, BW: 1.4MHz  
16QAM & RB Size 1**

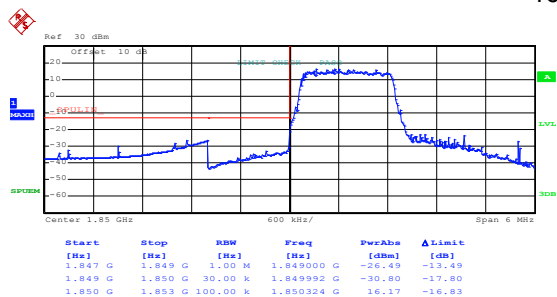
Date: 29.JUL.2020 09:42:52

Lowest channel



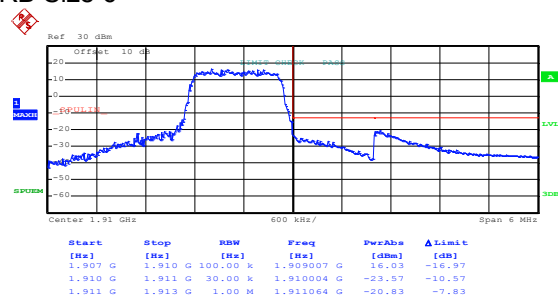
Date: 29.JUL.2020 09:44:01

Highest channel

**16QAM & RB Size 6**

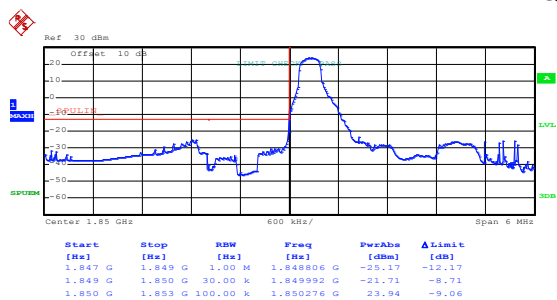
Date: 29.JUL.2020 09:43:05

Lowest channel



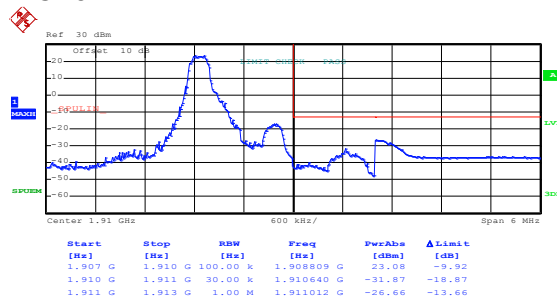
Date: 29.JUL.2020 09:43:22

Highest channel

LTE Band 2, BW: 1.4MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:42:43

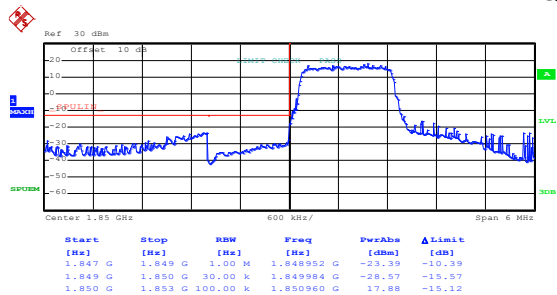
Lowest channel



Date: 29.JUL.2020 09:44:17

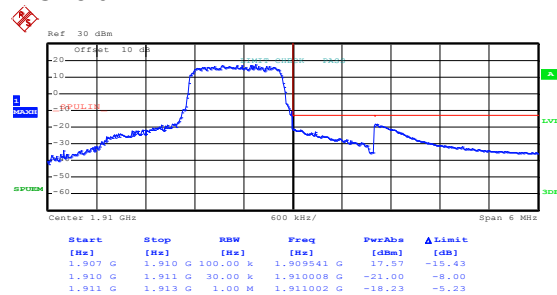
Highest channel

## QPSK &amp; RB Size 6



Date: 29.JUL.2020 09:43:00

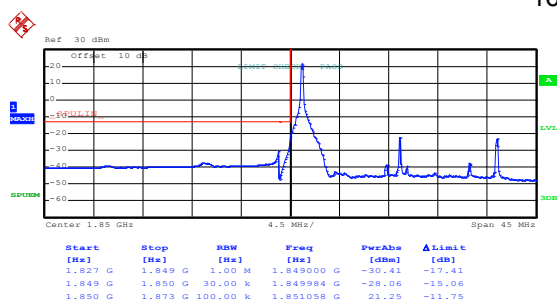
Lowest channel



Date: 29.JUL.2020 09:43:17

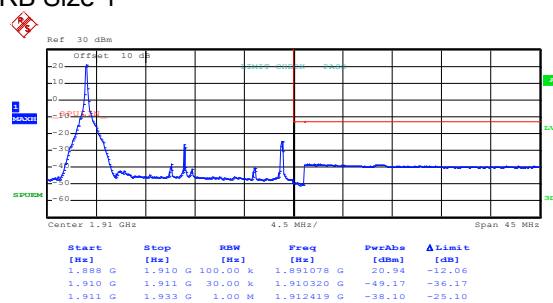
Highest channel



LTE Band 2, BW: 20MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 09:46:36

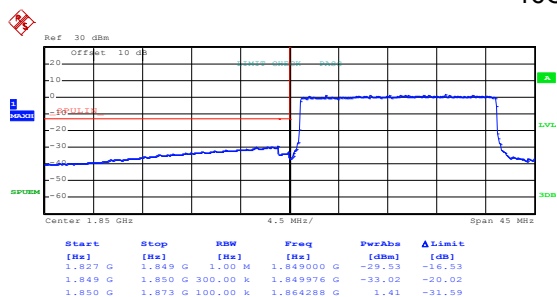
Lowest channel



Date: 29.JUL.2020 09:45:45

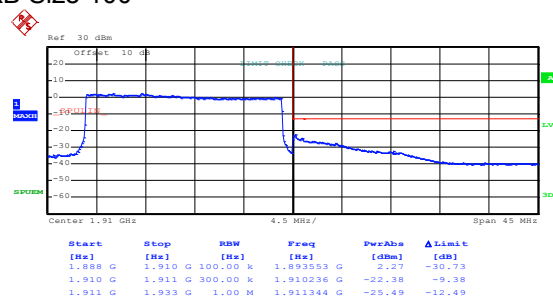
Highest channel

## 16QAM &amp; RB Size 100



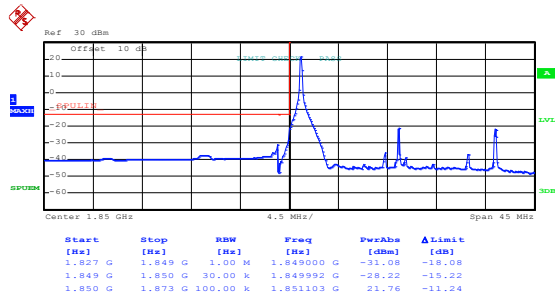
Date: 29.JUL.2020 09:46:51

Lowest channel



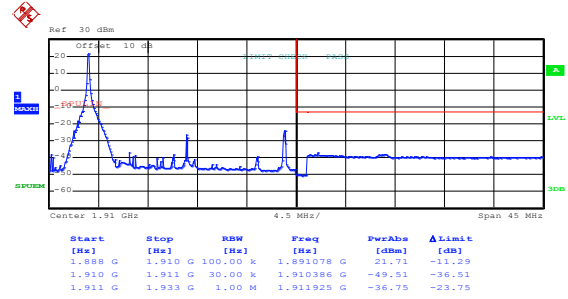
Date: 29.JUL.2020 09:46:14

Highest channel

LTE Band 2, BW: 20MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:46:29

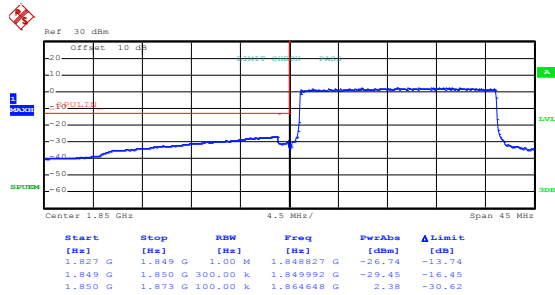
Lowest channel



Date: 29.JUL.2020 09:45:56

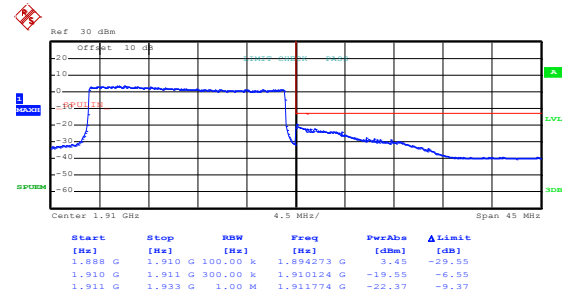
Highest channel

## QPSK &amp; RB Size 100



Date: 29.JUL.2020 09:46:46

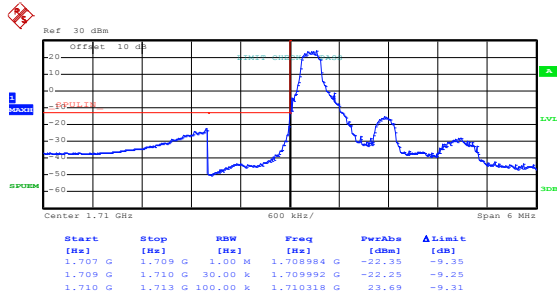
Lowest channel



Date: 29.JUL.2020 09:46:09

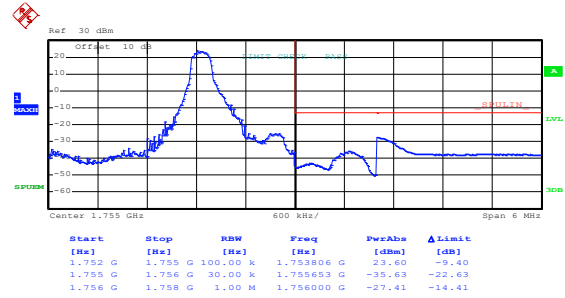
Highest channel

## LTE Band 4 part:

LTE Band 4, BW: 1.4MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 09:50:31

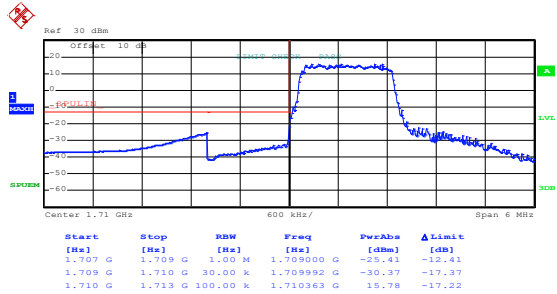
Lowest channel



Date: 29.JUL.2020 09:51:21

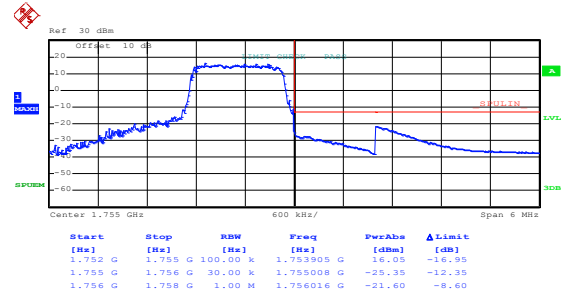
Highest channel

## 16QAM &amp; RB Size 6



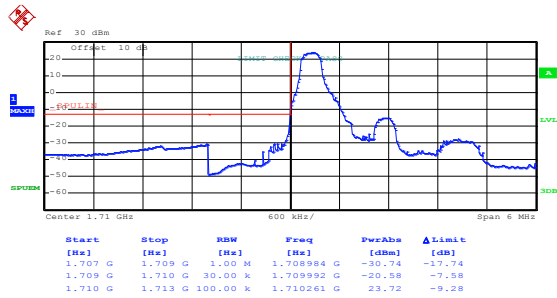
Date: 29.JUL.2020 09:50:41

Lowest channel



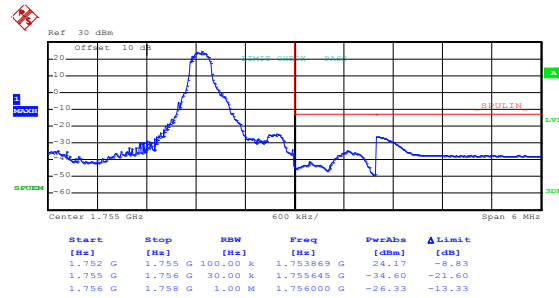
Date: 29.JUL.2020 09:50:58

Highest channel

LTE Band 4, BW: 1.4MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:50:24

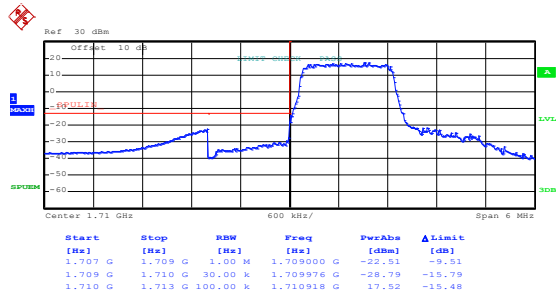
Lowest channel



Date: 29.JUL.2020 09:51:12

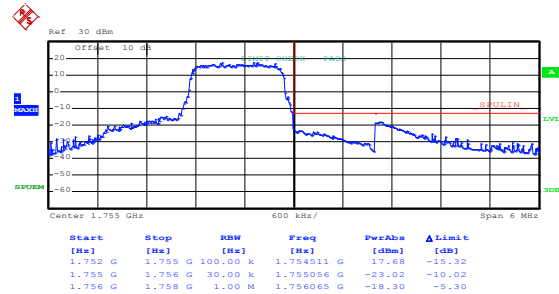
Highest channel

## QPSK &amp; RB Size 6



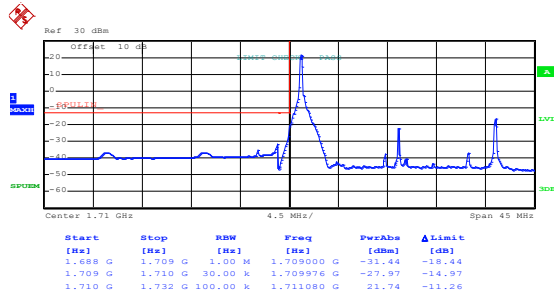
Date: 29.JUL.2020 09:50:37

Lowest channel



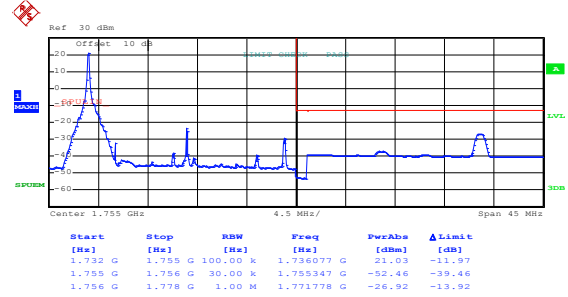
Date: 29.JUL.2020 09:50:53

Highest channel

LTE Band 4, BW: 20MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 09:49:51

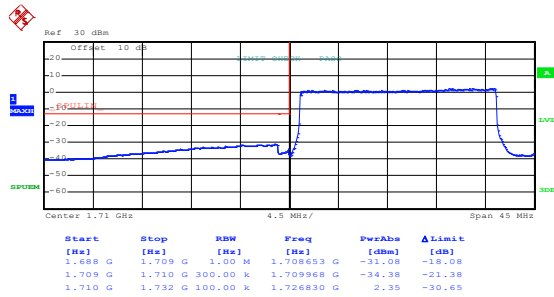
Lowest channel



Date: 29.JUL.2020 09:49:05

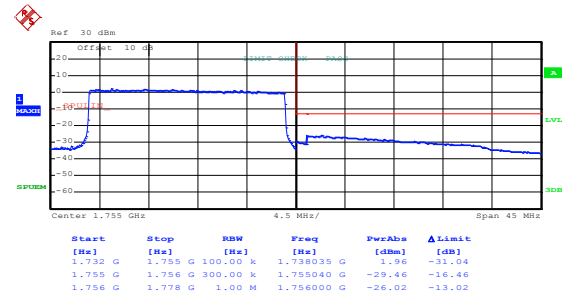
Highest channel

## 16QAM &amp; RB Size 100



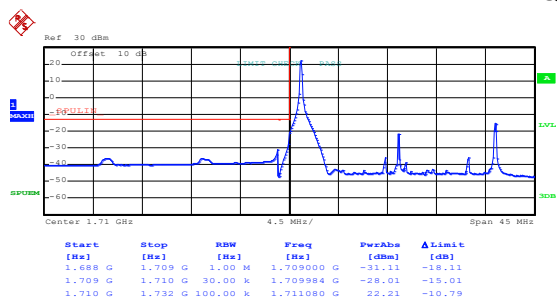
Date: 29.JUL.2020 09:49:30

Lowest channel



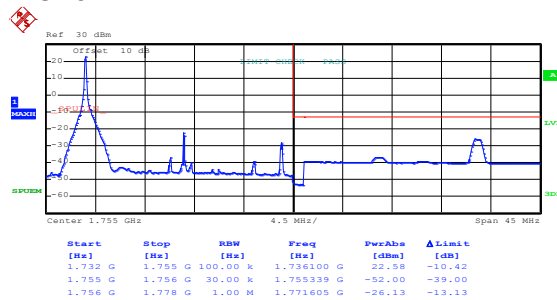
Date: 29.JUL.2020 09:48:29

Highest channel

LTE Band 4, BW: 20MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:49:43

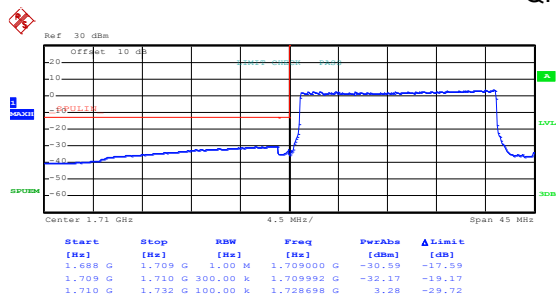
Lowest channel



Date: 29.JUL.2020 09:48:52

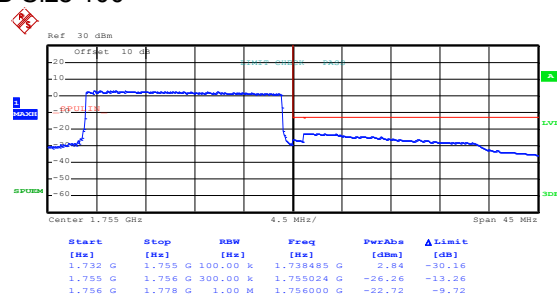
Highest channel

## QPSK &amp; RB Size 100



Date: 29.JUL.2020 09:49:23

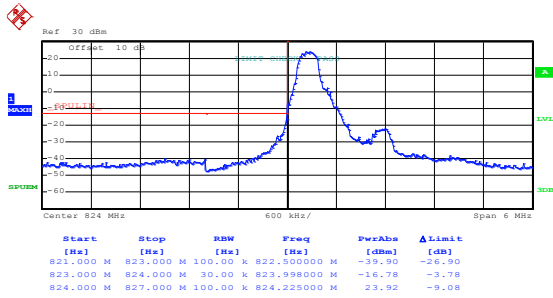
Lowest channel



Date: 29.JUL.2020 09:48:25

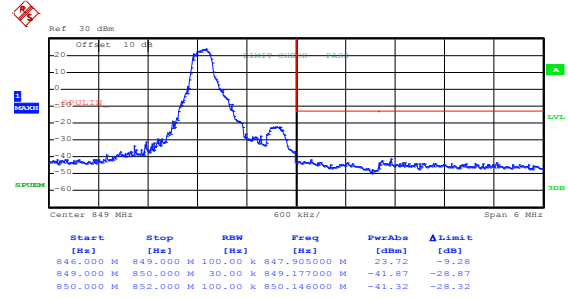
Highest channel

## LTE Band 5 part:

LTE Band 5, BW: 1.4MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 09:51:54

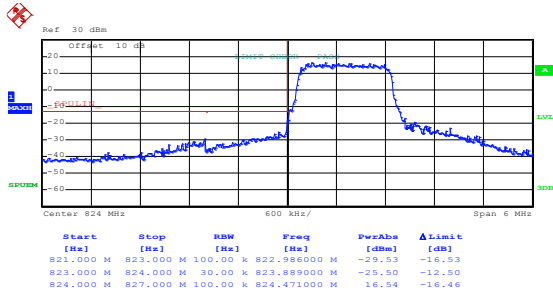
Lowest channel



Date: 29.JUL.2020 09:52:50

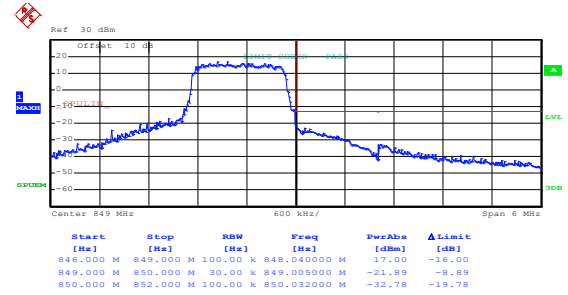
Highest channel

## 16QAM &amp; RB Size 6



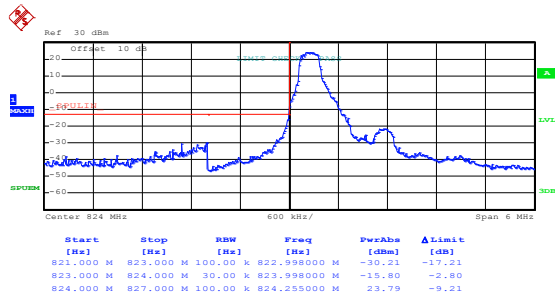
Date: 29.JUL.2020 09:52:13

Lowest channel



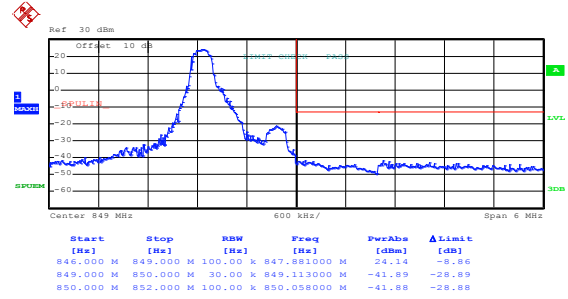
Date: 29.JUL.2020 09:52:28

Highest channel

LTE Band 5, BW: 1.4MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:52:02

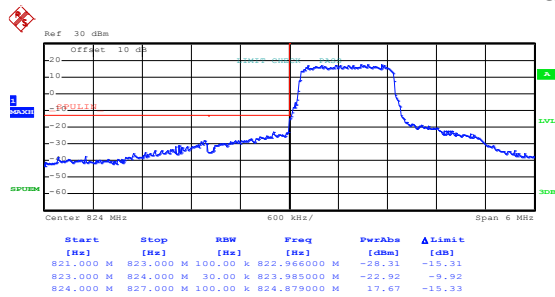
Lowest channel



Date: 29.JUL.2020 09:52:45

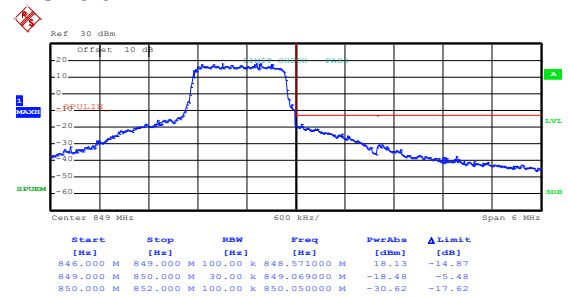
Highest channel

## QPSK &amp; RB Size 6



Date: 29.JUL.2020 09:52:09

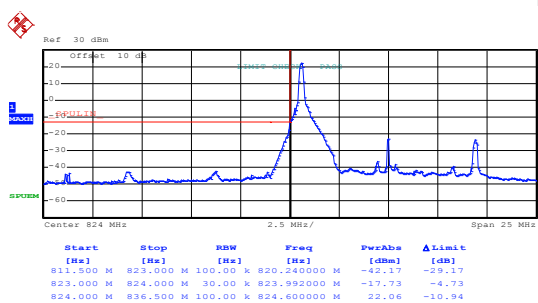
Lowest channel



Date: 29.JUL.2020 09:52:24

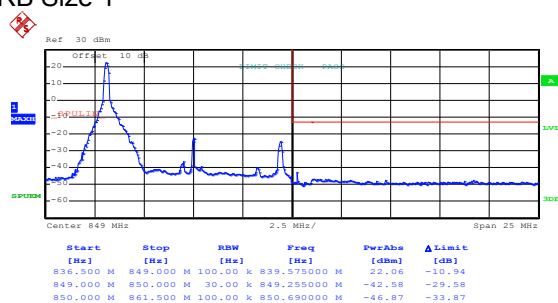
Highest channel



LTE Band 5, BW: 10MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 09:54:41

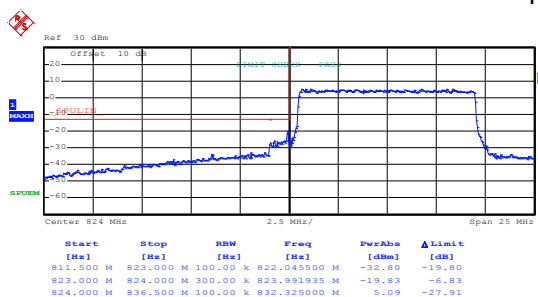
Lowest channel



Date: 29.JUL.2020 09:53:32

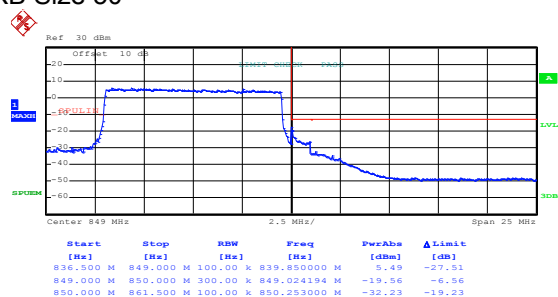
Highest channel

## 16QAM &amp; RB Size 50



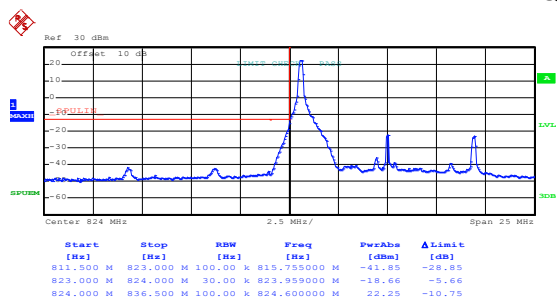
Date: 29.JUL.2020 10:04:41

Lowest channel



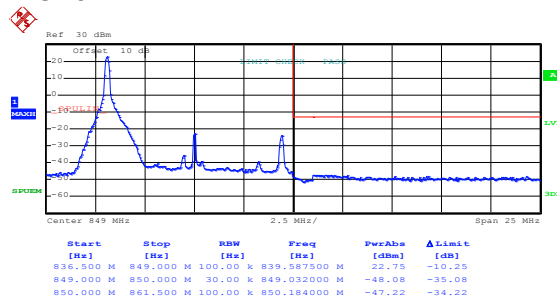
Date: 29.JUL.2020 09:54:07

Highest channel

LTE Band 5, BW: 10MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 09:54:34

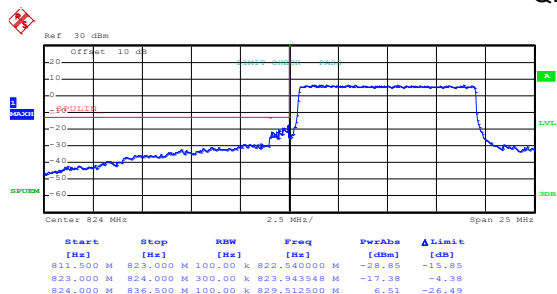
Lowest channel



Date: 29.JUL.2020 09:53:25

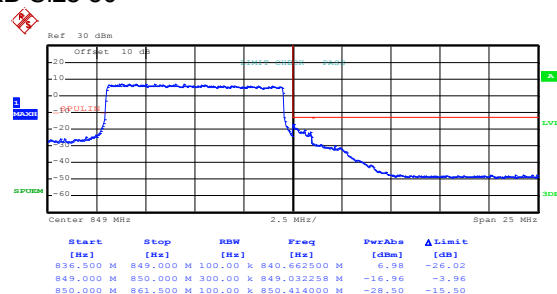
Highest channel

## QPSK &amp; RB Size 50



Date: 29.JUL.2020 10:04:37

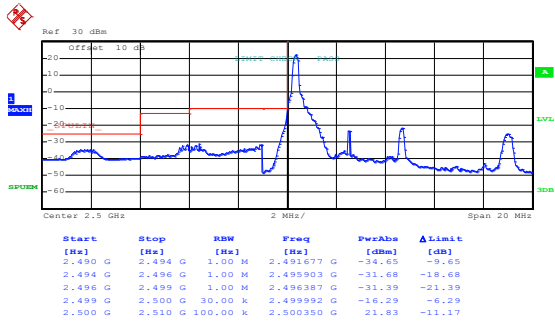
Lowest channel



Date: 29.JUL.2020 09:54:00

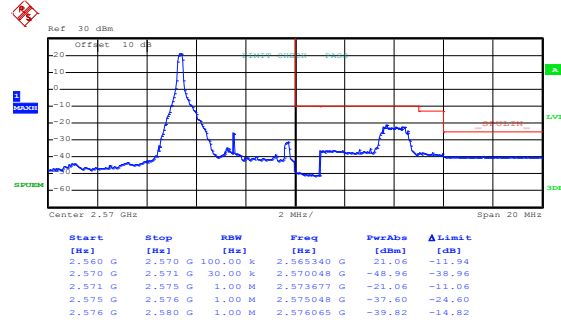
Highest channel

## LTE Band 7 part:

LTE Band 7, BW: 5MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:14:13

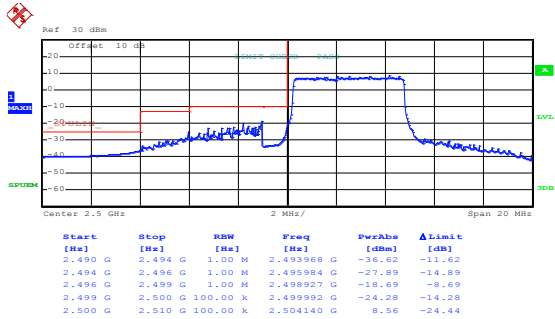
Lowest channel



Date: 29.JUL.2020 10:15:39

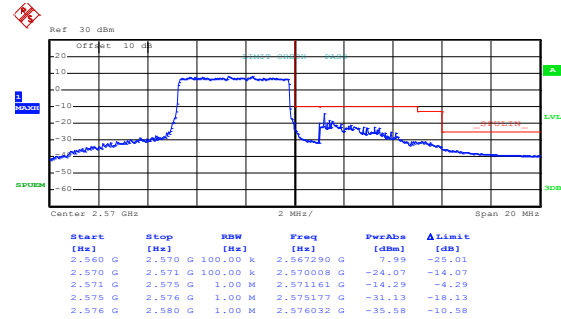
Highest channel

## 16QAM &amp; RB Size 25



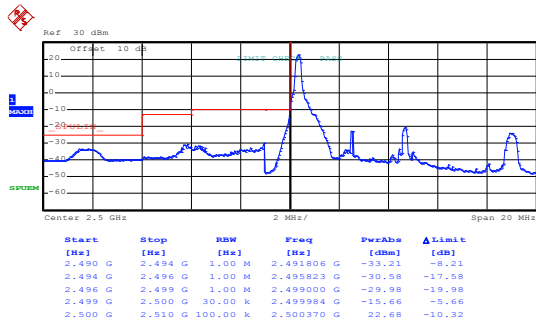
Date: 29.JUL.2020 10:14:34

Lowest channel



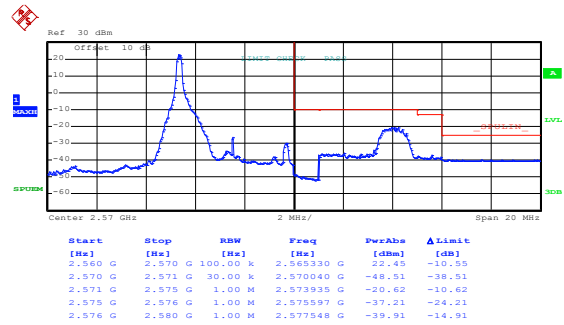
Date: 29.JUL.2020 10:16:02

Highest channel

LTE Band 7, BW: 5MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:14:06

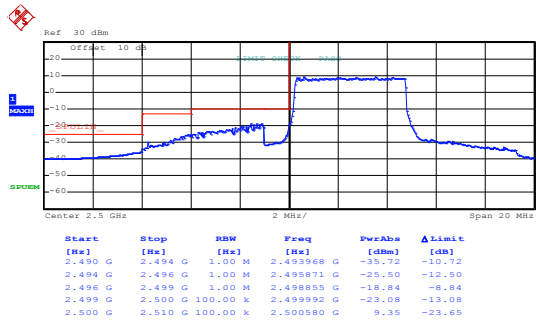
Lowest channel



Date: 29.JUL.2020 10:15:32

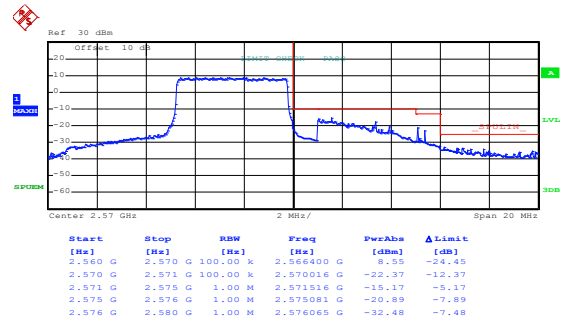
Highest channel

## QPSK &amp; RB Size 25



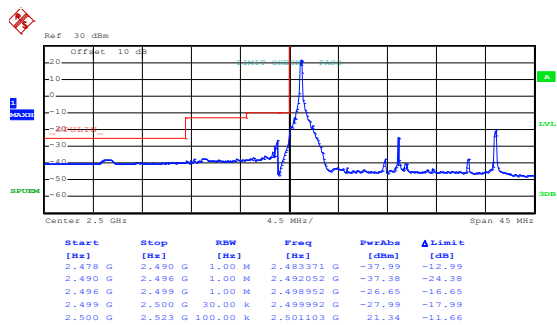
Date: 29.JUL.2020 10:14:29

Lowest channel



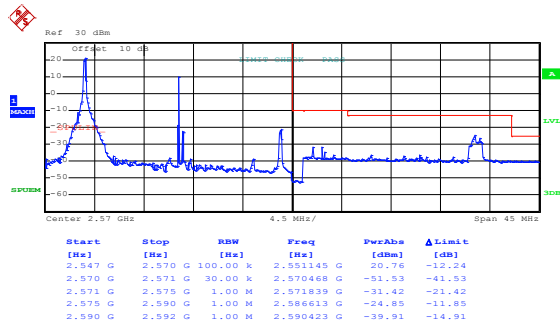
Date: 29.JUL.2020 10:15:56

Highest channel

LTE Band 7, BW: 20MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:17:05

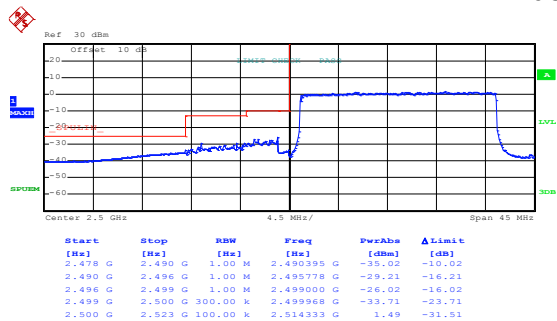
Lowest channel



Date: 29.JUL.2020 10:17:58

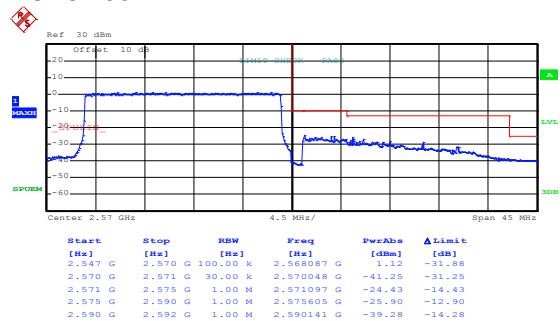
Highest channel

## 16QAM &amp; RB Size 100



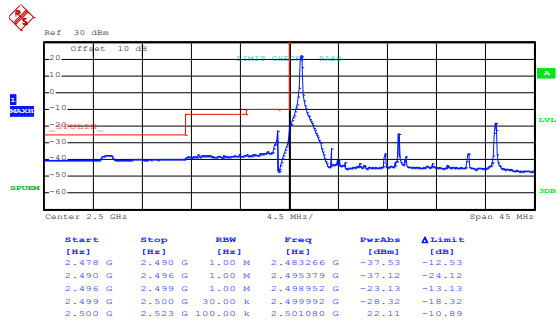
Date: 29.JUL.2020 10:17:22

Lowest channel



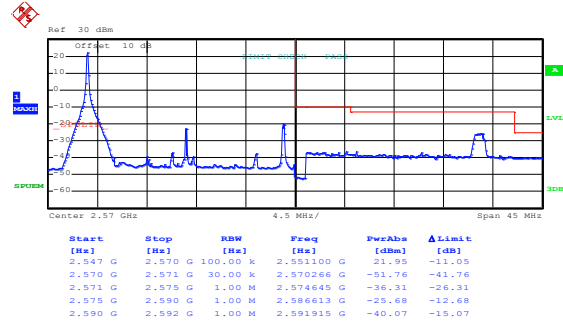
Date: 29.JUL.2020 10:18:12

Highest channel

LTE Band 7, BW: 20MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:16:57

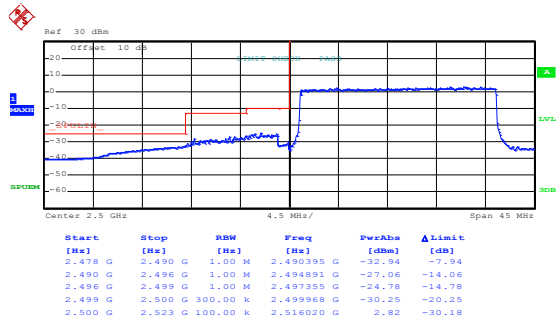
Lowest channel



Date: 29.JUL.2020 10:17:50

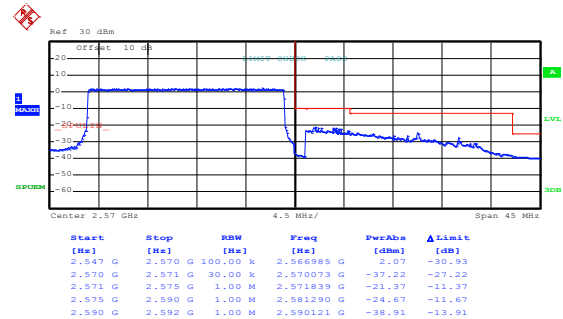
Highest channel

## QPSK &amp; RB Size 100



Date: 29.JUL.2020 10:17:17

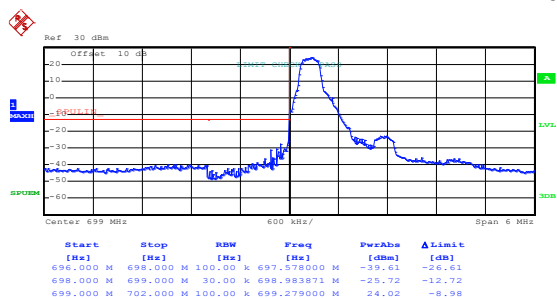
Lowest channel



Date: 29.JUL.2020 10:18:07

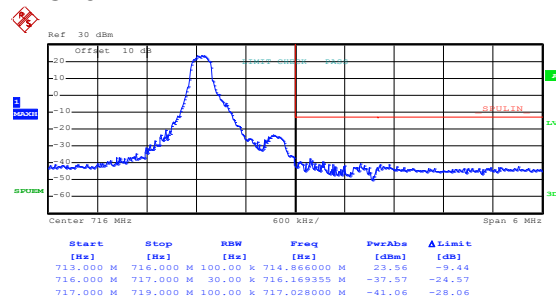
Highest channel

## LTE band 12 part:

LTE Band 12, BW: 1.4MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:09:11

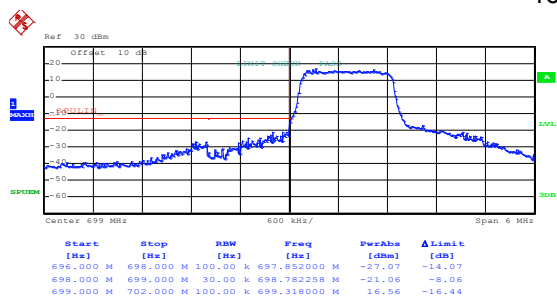
Lowest channel



Date: 29.JUL.2020 10:07:50

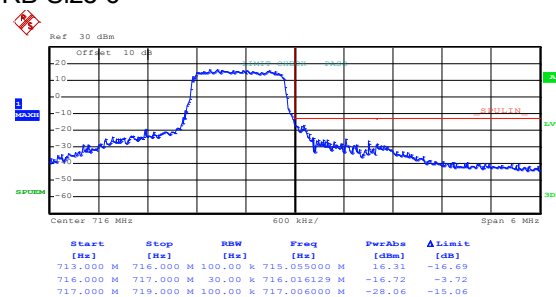
Highest channel

## 16QAM &amp; RB Size 6



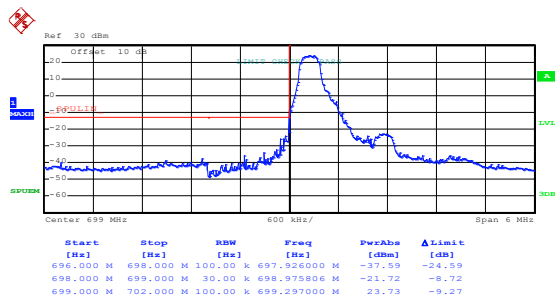
Date: 29.JUL.2020 10:08:42

Lowest channel



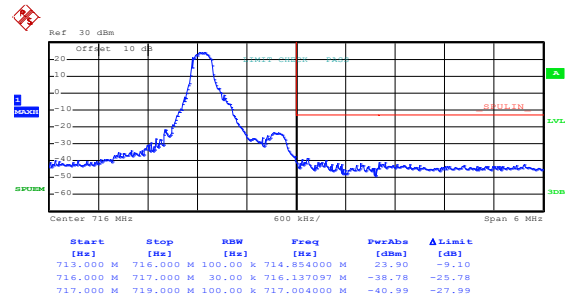
Date: 29.JUL.2020 10:08:15

Highest channel

LTE Band 12, BW: 1.4MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:08:57

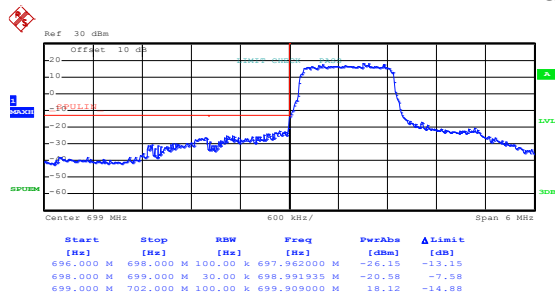
Lowest channel



Date: 29.JUL.2020 10:07:45

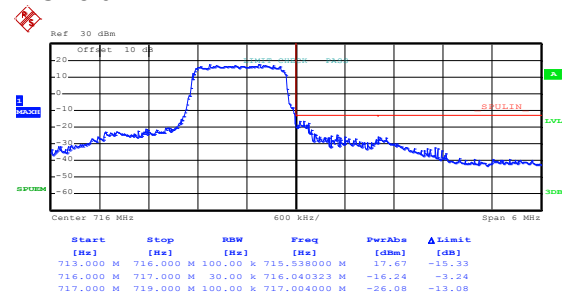
Highest channel

## QPSK &amp; RB Size 6



Date: 29.JUL.2020 10:08:37

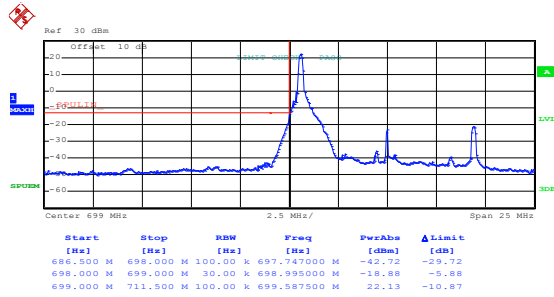
Lowest channel



Date: 29.JUL.2020 10:08:01

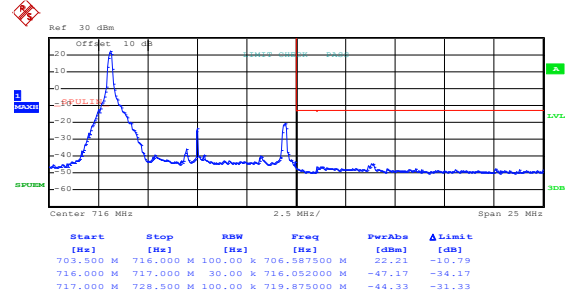
Highest channel



LTE Band 12, BW: 10MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:05:56

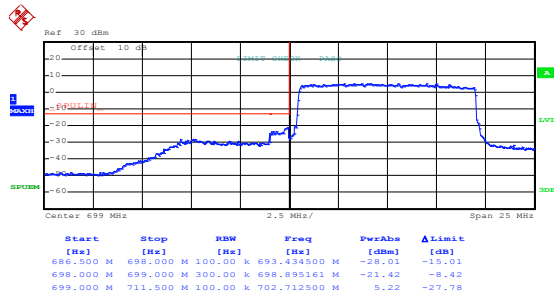
Lowest channel



Date: 29.JUL.2020 10:06:50

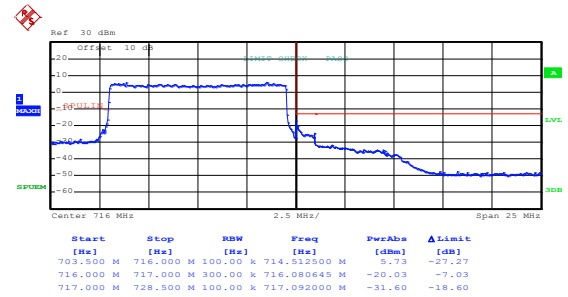
Highest channel

## 16QAM &amp; RB Size 50



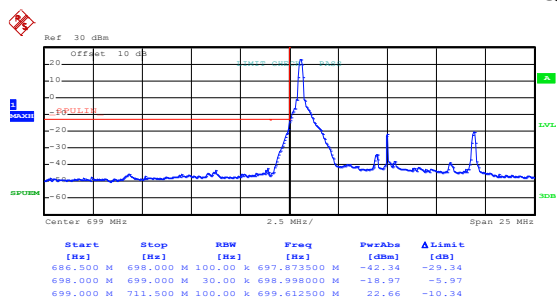
Date: 29.JUL.2020 10:06:22

Lowest channel



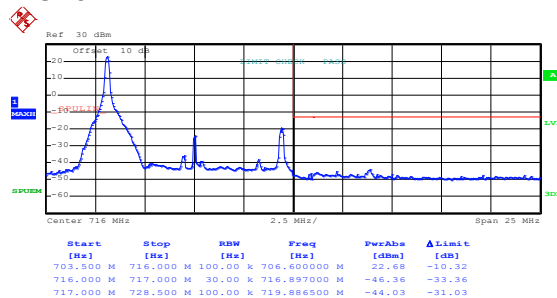
Date: 29.JUL.2020 10:07:09

Highest channel

LTE Band 12, BW: 10MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:05:51

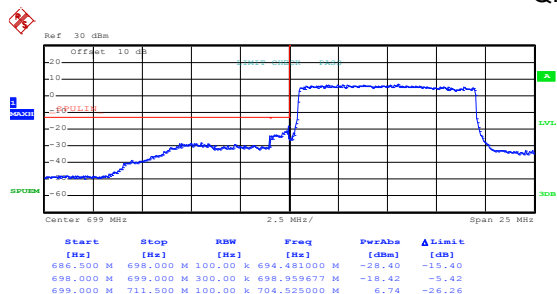
Lowest channel



Date: 29.JUL.2020 10:06:45

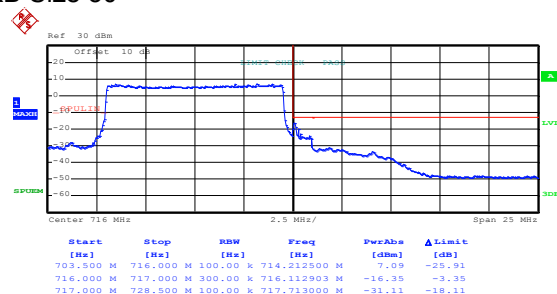
Highest channel

## QPSK &amp; RB Size 50



Date: 29.JUL.2020 10:06:18

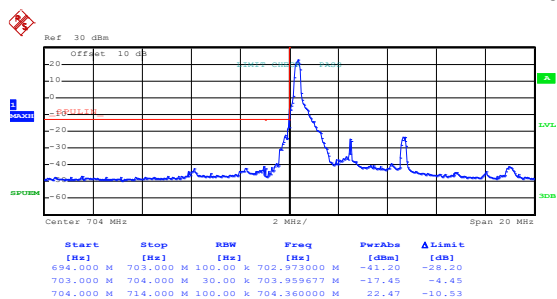
Lowest channel



Date: 29.JUL.2020 10:07:05

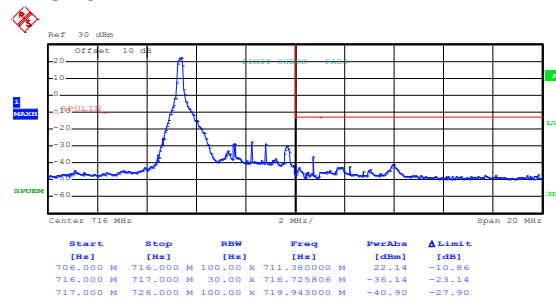
Highest channel

## LTE Band 17 part:

LTE Band 17, BW: 5MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:12:35

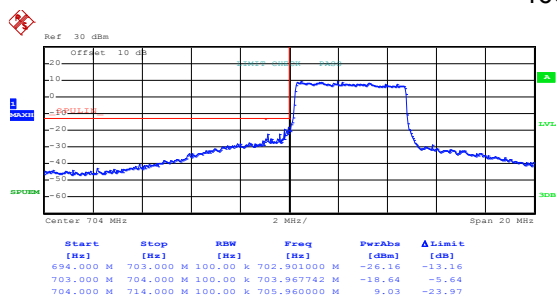
Lowest channel



Date: 29.JUL.2020 10:11:50

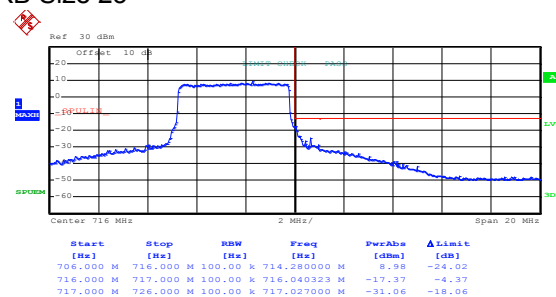
Highest channel

## 16QAM &amp; RB Size 25



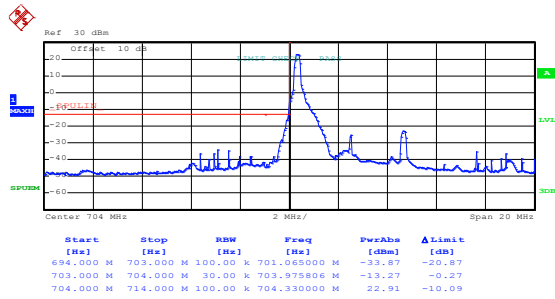
Date: 29.JUL.2020 10:12:53

Lowest channel



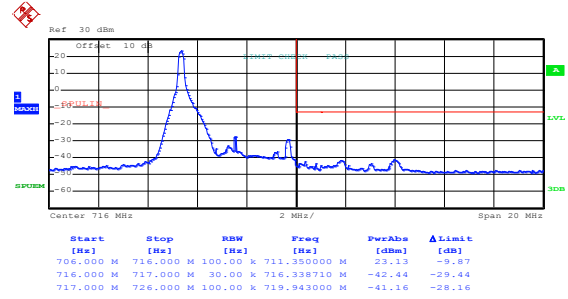
Date: 29.JUL.2020 10:12:06

Highest channel

LTE Band 17, BW: 5MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:12:26

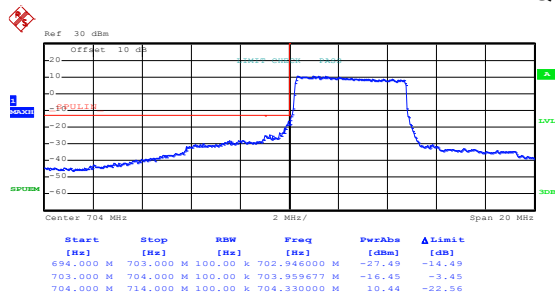
Lowest channel



Date: 29.JUL.2020 10:11:44

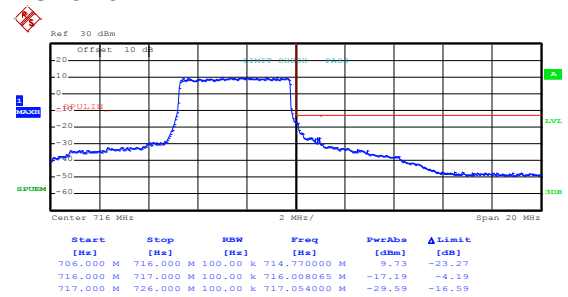
Highest channel

## QPSK &amp; RB Size 25



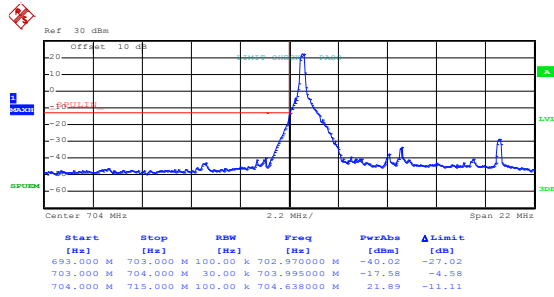
Date: 29.JUL.2020 10:12:49

Lowest channel



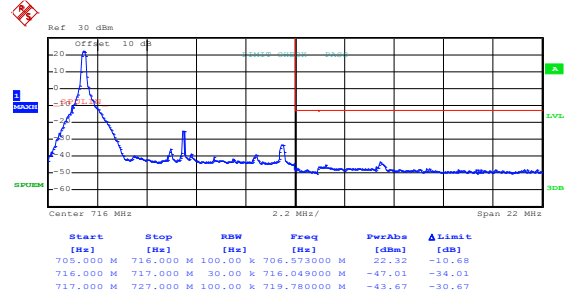
Date: 29.JUL.2020 10:12:02

Highest channel

LTE Band 17, BW: 10MHz  
16QAM & RB Size 1

Date: 29.JUL.2020 10:10:01

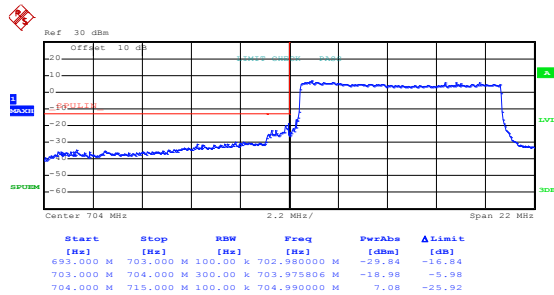
Lowest channel



Date: 29.JUL.2020 10:10:45

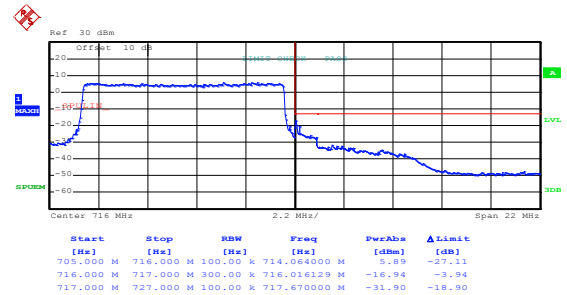
Highest channel

## 16QAM &amp; RB Size 50



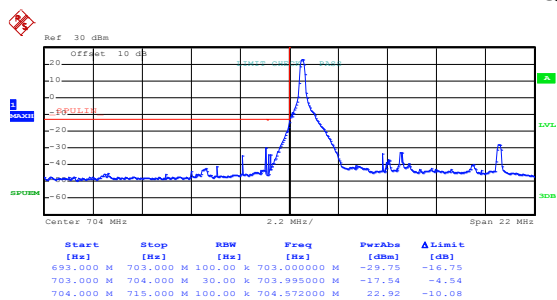
Date: 29.JUL.2020 10:10:23

Lowest channel



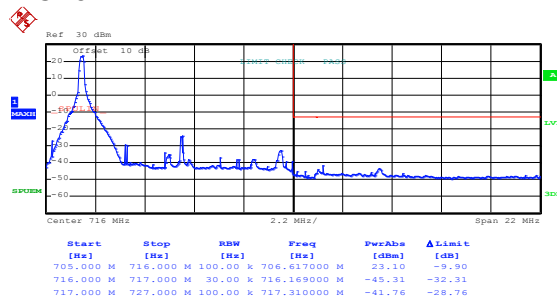
Date: 29.JUL.2020 10:11:14

Highest channel

LTE Band 17, BW: 10MHz  
QPSK & RB Size 1

Date: 29.JUL.2020 10:09:54

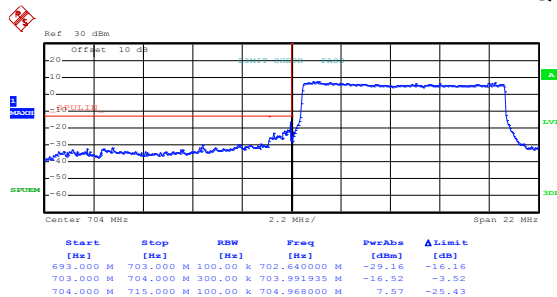
Lowest channel



Date: 29.JUL.2020 10:10:38

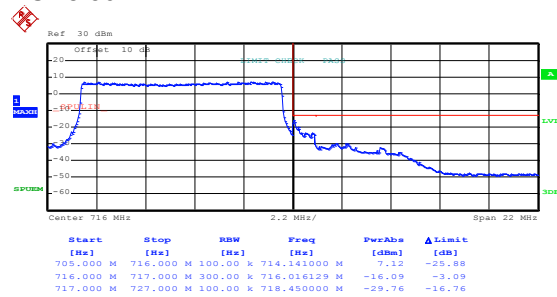
Highest channel

## QPSK &amp; RB Size 50



Date: 29.JUL.2020 10:10:18

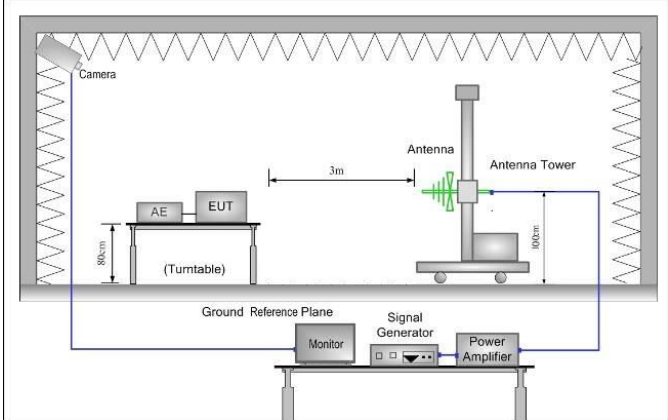
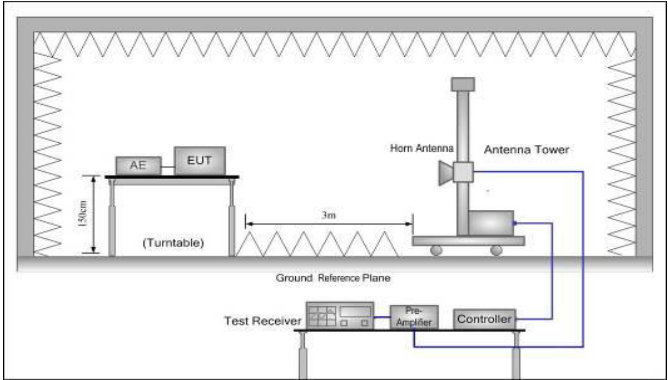
Lowest channel



Date: 29.JUL.2020 10:11:09

Highest channel

## 6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(a), Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Limit:	<p>LTE Band 2 &amp; 4 &amp; 5 &amp; 12 &amp; 17: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least <math>43 + 10 \log_{10}(P)</math> dB (-13 dBm).</p> <p>LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than <math>40 + 10 \log (P)</math> dB on all frequencies between the channel edge and 5 megahertz from the channel edge, <math>43 + 10 \log (P)</math> dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and <math>55 + 10 \log (P)</math> dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that <math>43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz and <math>55 + 10 \log (P)</math> dB at or below 2490.5 MHz.</p>
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).</li> </ol>

	<p>Once spurious emission was identified, the power of the emission was determined using the substitution method.</p> <p>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.</p> $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed



## Measurement Data:

## LTE Band 2 part:

Band 2 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3701.40	-60.27	12.64	0.75	-48.38	-13.00	-35.38	Vertical
5552.10	-56.32	12.76	1.13	-44.69	-13.00	-31.69	Vertical
7402.00	-50.23	11.44	1.63	-40.42	-13.00	-27.42	Vertical
3701.40	-63.47	12.64	0.75	-51.58	-13.00	-38.58	Horizontal
5552.10	-57.11	12.76	1.13	-45.48	-13.00	-32.48	Horizontal
7402.00	-50.57	11.44	1.63	-40.76	-13.00	-27.76	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-60.62	12.71	0.79	-48.70	-13.00	-35.70	Vertical
5640.00	-56.39	12.87	1.15	-44.67	-13.00	-31.67	Vertical
7520.00	-51.94	11.48	1.66	-42.12	-13.00	-29.12	Vertical
3760.00	-63.86	12.71	0.79	-51.94	-13.00	-38.94	Horizontal
5640.00	-57.40	12.87	1.15	-45.68	-13.00	-32.68	Horizontal
7520.00	-49.98	11.48	1.66	-40.16	-13.00	-27.16	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3816.60	-60.31	12.78	0.81	-48.34	-13.00	-35.34	Vertical
5724.90	-56.25	12.97	1.19	-44.47	-13.00	-31.47	Vertical
7633.20	-51.62	11.34	1.71	-41.99	-13.00	-28.99	Vertical
3816.60	-64.06	12.78	0.81	-52.09	-13.00	-39.09	Horizontal
5724.90	-57.25	12.97	1.19	-45.47	-13.00	-32.47	Horizontal
7633.20	-49.91	11.34	1.71	-40.28	-13.00	-27.28	Horizontal
Remark:							
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 2 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3720.00	-60.13	12.66	0.77	-48.24	-13.00	-35.24	Vertical
5580.00	-56.28	12.80	1.15	-44.63	-13.00	-31.63	Vertical
7440.00	-50.41	11.46	1.64	-40.59	-13.00	-27.59	Vertical
3720.00	-63.24	12.66	0.77	-51.35	-13.00	-38.35	Horizontal
5580.00	-57.07	12.80	1.15	-45.42	-13.00	-32.42	Horizontal
7440.00	-50.70	11.46	1.64	-40.88	-13.00	-27.88	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-60.37	12.71	0.79	-48.45	-13.00	-35.45	Vertical
5640.00	-56.36	12.87	1.15	-44.64	-13.00	-31.64	Vertical
7520.00	-50.90	11.48	1.66	-41.08	-13.00	-28.08	Vertical
3760.00	-63.76	12.71	0.79	-51.84	-13.00	-38.84	Horizontal
5640.00	-56.86	12.87	1.15	-45.14	-13.00	-32.14	Horizontal
7520.00	-50.68	11.48	1.66	-40.86	-13.00	-27.86	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3800.00	-60.37	12.76	0.79	-48.40	-13.00	-35.40	Vertical
5700.00	-56.50	12.94	1.18	-44.74	-13.00	-31.74	Vertical
7600.00	-51.63	11.38	1.69	-41.94	-13.00	-28.94	Vertical
3800.00	-64.01	12.76	0.79	-52.04	-13.00	-39.04	Horizontal
5700.00	-56.92	12.94	1.18	-45.16	-13.00	-32.16	Horizontal
7600.00	-50.40	11.38	1.69	-40.71	-13.00	-27.71	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

## LTE Band 4 part:

Band 4 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3421.40	-60.69	12.24	0.70	-49.15	-13.00	-36.15	Vertical
5132.10	-58.62	12.92	1.01	-46.71	-13.00	-33.71	Vertical
6842.80	-51.00	11.42	1.53	-41.11	-13.00	-28.11	Vertical
3421.40	-61.35	12.24	0.70	-49.81	-13.00	-36.81	Horizontal
5132.10	-58.08	12.92	1.01	-46.17	-13.00	-33.17	Horizontal
6842.80	-51.34	11.42	1.53	-41.45	-13.00	-28.45	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-61.09	12.33	0.72	-49.48	-13.00	-36.48	Vertical
5197.50	-58.97	12.88	1.04	-47.13	-13.00	-34.13	Vertical
6930.00	-50.49	11.30	1.56	-40.75	-13.00	-27.75	Vertical
3465.00	-61.79	12.33	0.72	-50.18	-13.00	-37.18	Horizontal
5197.50	-58.14	12.88	1.04	-46.30	-13.00	-33.30	Horizontal
6930.00	-50.96	11.30	1.56	-41.22	-13.00	-28.22	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3508.60	-61.20	12.41	0.74	-49.53	-13.00	-36.53	Vertical
5262.90	-58.75	12.84	1.07	-46.98	-13.00	-33.98	Vertical
7017.20	-50.57	11.21	1.58	-40.94	-13.00	-27.94	Vertical
3508.60	-62.04	12.41	0.74	-50.37	-13.00	-37.37	Horizontal
5262.90	-58.49	12.84	1.07	-46.72	-13.00	-33.72	Horizontal
7017.20	-51.11	11.21	1.58	-41.48	-13.00	-28.48	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 4 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3440.00	-60.65	12.28	0.71	-49.08	-13.00	-36.08	Vertical
5160.00	-58.85	12.90	1.03	-46.98	-13.00	-33.98	Vertical
6880.00	-51.08	11.37	1.54	-41.25	-13.00	-28.25	Vertical
3440.00	-61.56	12.28	0.71	-49.99	-13.00	-36.99	Horizontal
5160.00	-58.67	12.90	1.03	-46.80	-13.00	-33.80	Horizontal
6880.00	-51.60	11.37	1.54	-41.77	-13.00	-28.77	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-60.87	12.33	0.72	-49.26	-13.00	-36.26	Vertical
5197.50	-58.44	12.88	1.04	-46.60	-13.00	-33.60	Vertical
6930.00	-50.84	11.30	1.56	-41.10	-13.00	-28.10	Vertical
3465.00	-61.73	12.33	0.72	-50.12	-13.00	-37.12	Horizontal
5197.50	-58.43	12.88	1.04	-46.59	-13.00	-33.59	Horizontal
6930.00	-51.53	11.30	1.56	-41.79	-13.00	-28.79	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3490.00	-61.15	12.38	0.73	-49.50	-13.00	-36.50	Vertical
5235.00	-58.84	12.86	1.06	-47.04	-13.00	-34.04	Vertical
6980.00	-50.88	11.23	1.57	-41.22	-13.00	-28.22	Vertical
3490.00	-61.89	12.38	0.73	-50.24	-13.00	-37.24	Horizontal
5235.00	-58.25	12.86	1.06	-46.45	-13.00	-33.45	Horizontal
6980.00	-51.05	11.23	1.57	-41.39	-13.00	-28.39	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 5 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1649.40	-69.19	9.57	0.20	-59.82	-13.00	-46.82	Vertical
2474.10	-63.10	10.86	0.43	-52.67	-13.00	-39.67	Vertical
3298.80	-63.02	12.00	0.64	-51.66	-13.00	-38.66	Vertical
1649.40	-68.38	9.57	0.20	-59.01	-13.00	-46.01	Horizontal
2474.10	-63.76	10.86	0.43	-53.33	-13.00	-40.33	Horizontal
3298.80	-62.73	12.00	0.64	-51.37	-13.00	-38.37	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-68.91	9.66	0.22	-59.47	-13.00	-46.47	Vertical
2509.50	-62.84	10.91	0.46	-52.39	-13.00	-39.39	Vertical
3346.00	-63.03	12.09	0.66	-51.60	-13.00	-38.60	Vertical
1673.30	-68.00	9.66	0.22	-58.56	-13.00	-45.56	Horizontal
2509.50	-63.51	10.91	0.46	-53.06	-13.00	-40.06	Horizontal
3346.00	-62.70	12.09	0.66	-51.27	-13.00	-38.27	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1696.60	-68.78	9.74	0.23	-59.27	-13.00	-46.27	Vertical
2544.90	-62.43	10.94	0.49	-51.98	-13.00	-38.98	Vertical
3393.20	-63.02	12.19	0.68	-51.51	-13.00	-38.51	Vertical
1696.60	-67.99	9.74	0.23	-58.48	-13.00	-45.48	Horizontal
2544.90	-63.96	10.94	0.49	-53.51	-13.00	-40.51	Horizontal
3393.20	-62.61	12.19	0.68	-51.10	-13.00	-38.10	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 5 (10MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1658.00	-69.35	9.60	0.21	-59.96	-13.00	-46.96	Vertical
2487.00	-62.76	10.88	0.45	-52.33	-13.00	-39.33	Vertical
3316.00	-61.83	12.03	0.65	-50.45	-13.00	-37.45	Vertical
1658.00	-68.31	9.60	0.21	-58.92	-13.00	-45.92	Horizontal
2487.00	-63.14	10.88	0.45	-52.71	-13.00	-39.71	Horizontal
3316.00	-62.35	12.03	0.65	-50.97	-13.00	-37.97	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-69.49	9.66	0.21	-60.04	-13.00	-47.04	Vertical
2509.50	-62.60	10.91	0.46	-52.15	-13.00	-39.15	Vertical
3346.00	-62.15	12.09	0.66	-50.72	-13.00	-37.72	Vertical
1673.30	-68.07	9.66	0.21	-58.62	-13.00	-45.62	Horizontal
2509.50	-63.52	10.91	0.46	-53.07	-13.00	-40.07	Horizontal
3346.00	-62.88	12.09	0.66	-51.45	-13.00	-38.45	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1688.00	-69.09	9.71	0.23	-59.61	-13.00	-46.61	Vertical
2532.00	-62.34	10.93	0.48	-51.89	-13.00	-38.89	Vertical
3376.00	-62.64	12.15	0.67	-51.16	-13.00	-38.16	Vertical
1688.00	-68.33	9.71	0.23	-58.85	-13.00	-45.85	Horizontal
2532.00	-63.70	10.93	0.48	-53.25	-13.00	-40.25	Horizontal
3376.00	-62.98	12.15	0.67	-51.50	-13.00	-38.50	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

## LTE Band 7 part:

Band 7 (5MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5005.00	-59.07	13.00	0.94	-47.01	-25.00	-22.01	Vertical
7507.50	-50.79	11.49	1.65	-40.95	-25.00	-15.95	Vertical
10010.00	-45.17	11.69	1.91	-35.39	-25.00	-10.39	Vertical
5005.00	-59.12	13.00	0.94	-47.06	-25.00	-22.06	Horizontal
7507.50	-50.13	11.49	1.65	-40.29	-25.00	-15.29	Horizontal
10010.00	-44.97	11.69	1.91	-35.19	-25.00	-10.19	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-58.57	12.96	0.98	-46.59	-25.00	-21.59	Vertical
7605.00	-50.29	11.37	1.69	-40.61	-25.00	-15.61	Vertical
10140.00	-44.94	11.62	1.94	-35.26	-25.00	-10.26	Vertical
5070.00	-59.51	12.96	0.98	-47.53	-25.00	-22.53	Horizontal
7605.00	-50.30	11.37	1.69	-40.62	-25.00	-15.62	Horizontal
10140.00	-44.96	11.62	1.94	-35.28	-25.00	-10.28	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5135.00	-58.85	12.92	1.01	-46.94	-25.00	-21.94	Vertical
7702.50	-50.50	11.26	1.72	-40.96	-25.00	-15.96	Vertical
10270.00	-44.71	11.54	1.95	-35.12	-25.00	-10.12	Vertical
5135.00	-59.30	12.92	1.01	-47.39	-25.00	-22.39	Horizontal
7702.50	-50.27	11.26	1.72	-40.73	-25.00	-15.73	Horizontal
10270.00	-45.24	11.54	1.95	-35.65	-25.00	-10.65	Horizontal
<b>Remark:</b> <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i>							

Band 7 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5020.00	-59.50	12.99	0.97	-47.48	-25.00	-22.48	Vertical
7530.00	-50.95	11.46	1.68	-41.17	-25.00	-16.17	Vertical
10040.00	-43.97	11.68	1.94	-34.23	-25.00	-9.23	Vertical
5020.00	-60.06	12.99	0.97	-48.04	-25.00	-23.04	Horizontal
7530.00	-51.11	11.46	1.68	-41.33	-25.00	-16.33	Horizontal
10040.00	-44.22	11.68	1.94	-34.48	-25.00	-9.48	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-59.74	12.96	0.98	-47.76	-25.00	-22.76	Vertical
7605.00	-51.08	11.37	1.69	-41.40	-25.00	-16.40	Vertical
10140.00	-44.39	11.62	1.94	-34.71	-25.00	-9.71	Vertical
5070.00	-59.92	12.96	0.98	-47.94	-25.00	-22.94	Horizontal
7605.00	-50.64	11.37	1.69	-40.96	-25.00	-15.96	Horizontal
10140.00	-44.59	11.62	1.94	-34.91	-25.00	-9.91	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5120.00	-59.29	12.93	1.00	-47.36	-25.00	-22.36	Vertical
7680.00	-50.50	11.28	1.72	-40.94	-25.00	-15.94	Vertical
10240.00	-44.46	11.56	1.95	-34.85	-25.00	-9.85	Vertical
5120.00	-59.78	12.93	1.00	-47.85	-25.00	-22.85	Horizontal
7680.00	-50.37	11.28	1.72	-40.81	-25.00	-15.81	Horizontal
10240.00	-44.99	11.56	1.95	-35.38	-25.00	-10.38	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							



## LTE Band 12 part:

Band 12 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1399.40	-67.54	7.80	0.11	-59.85	-13.00	-46.85	Vertical
2099.10	-66.99	10.34	0.29	-56.94	-13.00	-43.94	Vertical
2798.80	-66.31	11.20	0.53	-55.64	-13.00	-42.64	Vertical
1399.40	-69.80	7.80	0.11	-62.11	-13.00	-49.11	Horizontal
2099.10	-68.95	10.34	0.29	-58.90	-13.00	-45.90	Horizontal
2798.80	-65.96	11.20	0.53	-55.29	-13.00	-42.29	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1415.00	-67.97	7.92	0.13	-60.18	-13.00	-47.18	Vertical
2122.50	-67.39	10.37	0.32	-57.34	-13.00	-44.34	Vertical
2830.00	-65.94	11.23	0.55	-55.26	-13.00	-42.26	Vertical
1415.00	-70.13	7.92	0.13	-62.34	-13.00	-49.34	Horizontal
2122.50	-69.21	10.37	0.32	-59.16	-13.00	-46.16	Horizontal
2830.00	-65.92	11.23	0.55	-55.24	-13.00	-42.24	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1430.60	-67.80	8.04	0.16	-59.92	-13.00	-46.92	Vertical
2145.90	-66.93	10.40	0.35	-56.88	-13.00	-43.88	Vertical
2861.20	-65.80	11.26	0.58	-55.12	-13.00	-42.12	Vertical
1430.60	-70.08	8.04	0.16	-62.20	-13.00	-49.20	Horizontal
2145.90	-69.33	10.40	0.35	-59.28	-13.00	-46.28	Horizontal
2861.20	-66.14	11.26	0.58	-55.46	-13.00	-42.46	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

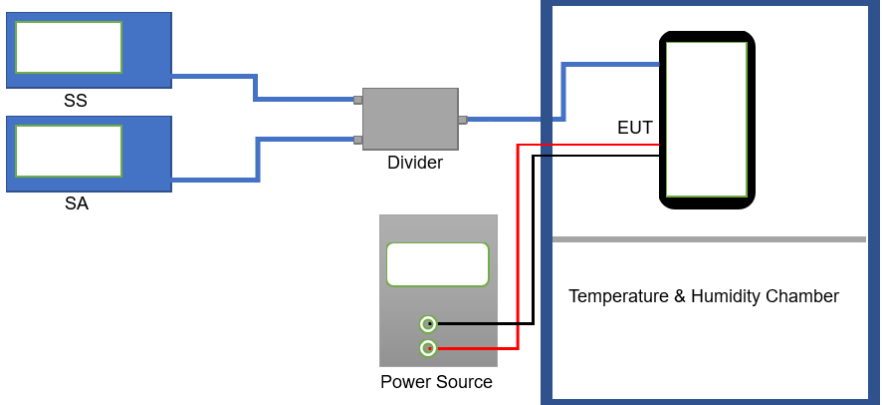
Band 12 (10MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1408.00	-67.93	7.86	0.12	-60.19	-13.00	-47.19	Vertical
2112.00	-67.16	10.36	0.30	-57.10	-13.00	-44.10	Vertical
2816.00	-65.61	11.22	0.54	-54.93	-13.00	-41.93	Vertical
1408.00	-70.10	7.86	0.12	-62.36	-13.00	-49.36	Horizontal
2112.00	-69.58	10.36	0.30	-59.52	-13.00	-46.52	Horizontal
2816.00	-66.56	11.22	0.54	-55.88	-13.00	-42.88	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1415.00	-68.10	7.92	0.13	-60.31	-13.00	-47.31	Vertical
2122.50	-66.81	10.37	0.32	-56.76	-13.00	-43.76	Vertical
2830.00	-65.53	11.23	0.55	-54.85	-13.00	-41.85	Vertical
1415.00	-70.50	7.92	0.13	-62.71	-13.00	-49.71	Horizontal
2122.50	-69.38	10.37	0.32	-59.33	-13.00	-46.33	Horizontal
2830.00	-66.49	11.23	0.55	-55.81	-13.00	-42.81	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1422.00	-68.04	7.98	0.15	-60.21	-13.00	-47.21	Vertical
2133.00	-66.79	10.39	0.34	-56.74	-13.00	-43.74	Vertical
2844.00	-65.99	11.24	0.57	-55.32	-13.00	-42.32	Vertical
1422.00	-70.52	7.98	0.15	-62.69	-13.00	-49.69	Horizontal
2133.00	-69.33	10.39	0.34	-59.28	-13.00	-46.28	Horizontal
2844.00	-66.31	11.24	0.57	-55.64	-13.00	-42.64	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

## LTE Band 17 part:

Band 17 (5MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1413.00	-69.27	7.90	0.12	-61.49	-13.00	-48.49	Vertical
2119.50	-68.16	10.37	0.31	-58.10	-13.00	-45.10	Vertical
2826.00	-65.76	11.23	0.54	-55.07	-13.00	-42.07	Vertical
1413.00	-66.44	7.90	0.12	-58.66	-13.00	-45.66	Horizontal
2119.50	-68.14	10.37	0.31	-58.08	-13.00	-45.08	Horizontal
2826.00	-65.90	11.23	0.54	-55.21	-13.00	-42.21	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1420.00	-69.80	7.96	0.14	-61.98	-13.00	-48.98	Vertical
2130.00	-67.72	10.38	0.33	-57.67	-13.00	-44.67	Vertical
2840.00	-65.52	11.24	0.56	-54.84	-13.00	-41.84	Vertical
1420.00	-66.85	7.96	0.14	-59.03	-13.00	-46.03	Horizontal
2130.00	-67.70	10.38	0.33	-57.65	-13.00	-44.65	Horizontal
2840.00	-65.63	11.24	0.56	-54.95	-13.00	-41.95	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1427.00	-69.95	8.02	0.16	-62.09	-13.00	-49.09	Vertical
2140.50	-68.22	10.40	0.34	-58.16	-13.00	-45.16	Vertical
2854.00	-65.66	11.25	0.57	-54.98	-13.00	-41.98	Vertical
1427.00	-67.35	8.02	0.16	-59.49	-13.00	-46.49	Horizontal
2140.50	-67.33	10.40	0.34	-57.27	-13.00	-44.27	Horizontal
2854.00	-65.51	11.25	0.57	-54.83	-13.00	-41.83	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 17 (10MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1418.00	-69.87	7.94	0.13	-62.06	-13.00	-49.06	Vertical
2127.00	-68.73	10.38	0.32	-58.67	-13.00	-45.67	Vertical
2836.00	-65.99	11.24	0.56	-55.31	-13.00	-42.31	Vertical
1418.00	-67.24	7.94	0.13	-59.43	-13.00	-46.43	Horizontal
2127.00	-66.89	10.38	0.32	-56.83	-13.00	-43.83	Horizontal
2836.00	-65.29	11.24	0.56	-54.61	-13.00	-41.61	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1420.00	-69.77	7.96	0.14	-61.95	-13.00	-48.95	Vertical
2130.00	-68.56	10.38	0.33	-58.51	-13.00	-45.51	Vertical
2840.00	-66.26	11.24	0.56	-55.58	-13.00	-42.58	Vertical
1420.00	-66.94	7.96	0.14	-59.12	-13.00	-46.12	Horizontal
2130.00	-66.87	10.38	0.33	-56.82	-13.00	-43.82	Horizontal
2840.00	-65.40	11.24	0.56	-54.72	-13.00	-41.72	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1422.00	-69.70	7.98	0.15	-61.87	-13.00	-48.87	Vertical
2133.00	-68.57	10.39	0.34	-58.52	-13.00	-45.52	Vertical
2844.00	-65.76	11.24	0.57	-55.09	-13.00	-42.09	Vertical
1422.00	-67.22	7.98	0.15	-59.39	-13.00	-46.39	Horizontal
2133.00	-67.10	10.39	0.34	-57.05	-13.00	-44.05	Horizontal
2844.00	-65.52	11.24	0.57	-54.85	-13.00	-41.85	Horizontal
<b>Remark:</b> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

## 6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Limit:	$\pm 2.5$ ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	 <p>The diagram illustrates the test setup. A Signal Source (SS) and a Spectrum Analyzer (SA) are connected to a Divider. The output of the Divider is connected to the EUT (Equipment Under Test) inside a Temperature &amp; Humidity Chamber. A Power Source is also connected to the EUT.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

## Measurement Data (worst case):

## LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	198	0.105319	Within authorized band for Band 2	Pass
	-20	155	0.082447		
	-10	163	0.086702		
	0	123	0.065426		
	10	188	0.100000		
	20	174	0.092553		
	30	114	0.060638		
	40	105	0.055851		
	50	150	0.079787		
16QAM					
3.85	-30	173	0.092021	Within authorized band for Band 2	Pass
	-20	114	0.060638		
	-10	123	0.065426		
	0	130	0.069149		
	10	137	0.072872		
	20	146	0.077660		
	30	153	0.081383		
	40	159	0.084574		
	50	166	0.088298		
Note: Only the worst case shown in the report.					

## LTE Band 4 part:

Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	170	0.098124	Within authorized band for Band 4	Pass
	-20	162	0.093506		
	-10	153	0.088312		
	0	143	0.082540		
	10	120	0.069264		
	20	115	0.066378		
	30	108	0.062338		
	40	134	0.077345		
	50	127	0.073304		
16QAM					
3.85	-30	195	0.112554	Within authorized band for Band 4	Pass
	-20	123	0.070996		
	-10	165	0.095238		
	0	180	0.103896		
	10	177	0.102165		
	20	140	0.080808		
	30	100	0.057720		
	40	132	0.076190		
	50	117	0.067532		
Note: Only the worst case shown in the report.					

## LTE Band 5 part:

Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	198	0.236701	±2.5	Pass
	-20	196	0.234310		
	-10	177	0.211596		
	0	180	0.215182		
	10	165	0.197250		
	20	144	0.172146		
	30	150	0.179319		
	40	100	0.119546		
	50	132	0.157800		
16QAM					
3.85	-30	168	0.200837	±2.5	Pass
	-20	146	0.174537		
	-10	137	0.163778		
	0	132	0.157800		
	10	124	0.148237		
	20	116	0.138673		
	30	107	0.127914		
	40	160	0.191273		
	50	154	0.184100		
Note: Only the worst case shown in the report.					



## LTE Band 7 part:

Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	176	0.069428	Within authorized band for Band 7	Pass
	-20	169	0.066667		
	-10	154	0.060750		
	0	149	0.058777		
	10	133	0.052465		
	20	126	0.049704		
	30	160	0.063116		
	40	116	0.045759		
	50	140	0.055227		
16QAM					
3.85	-30	180	0.071006	Within authorized band for Band 7	Pass
	-20	173	0.068245		
	-10	165	0.065089		
	0	159	0.062722		
	10	142	0.056016		
	20	138	0.054438		
	30	120	0.047337		
	40	130	0.051282		
	50	150	0.059172		
Note: Only the worst case shown in the report.					

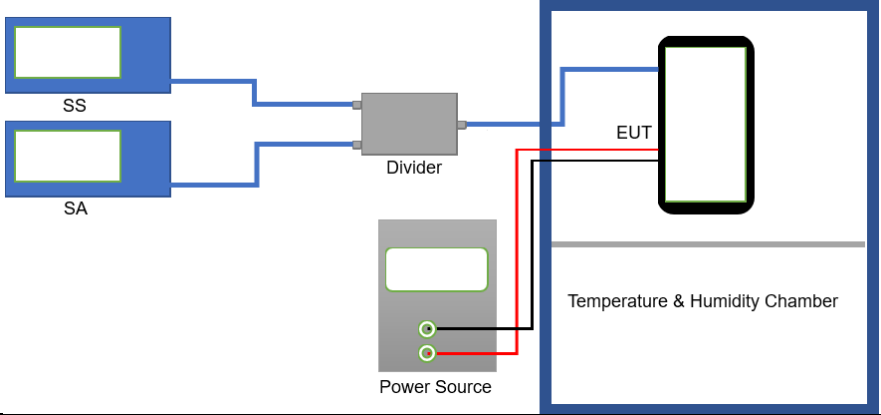
## LTE Band 12 part:

Reference Frequency: LTE Band 12 (10MHz) Middle channel=23095 channel=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	190	0.268551	Within authorized band for Band 12	Pass
	-20	180	0.254417		
	-10	177	0.250177		
	0	123	0.173852		
	10	165	0.233216		
	20	101	0.142756		
	30	145	0.204947		
	40	108	0.152650		
	50	111	0.156890		
16QAM					
3.85	-30	191	0.269965	Within authorized band for Band 12	Pass
	-20	144	0.203534		
	-10	180	0.254417		
	0	174	0.245936		
	10	165	0.233216		
	20	132	0.186572		
	30	100	0.141343		
	40	111	0.156890		
	50	147	0.207774		
Note: Only the worst case shown in the report.					

## LTE Band 17 part:

Reference Frequency: LTE Band 17 (10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	198	0.278873	Within authorized band for Band 17	Pass
	-20	155	0.218310		
	-10	165	0.232394		
	0	123	0.173239		
	10	134	0.188732		
	20	177	0.249296		
	30	146	0.205634		
	40	100	0.140845		
	50	118	0.166197		
16QAM					
3.85	-30	199	0.280282	Within authorized band for Band 17	Pass
	-20	188	0.264789		
	-10	144	0.202817		
	0	165	0.232394		
	10	123	0.173239		
	20	136	0.191549		
	30	177	0.249296		
	40	101	0.142254		
	50	111	0.156338		
Note: Only the worst case shown in the report.					

## 6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer (SA) and a Signal Source (SS) are connected to a Divider. The Divider is connected to the EUT (Equipment Under Test) inside a Temperature &amp; Humidity Chamber. A Power Source is also connected to the EUT.</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):****LTE Band 2 part:**

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	80	0.042553	Within authorized band for Band 2	Pass
	3.85	96	0.051064		
	3.50	48	0.025532		
16QAM					
25	4.40	80	0.042553	Within authorized band for Band 2	Pass
	3.85	70	0.037234		
	3.50	59	0.031383		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

**LTE Band 4 part:**

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	96	0.055411	Within authorized band for Band 4	Pass
	3.85	88	0.050794		
	3.50	74	0.042713		
16QAM					
25	4.40	88	0.050794	Within authorized band for Band 4	Pass
	3.85	70	0.040404		
	3.50	60	0.034632		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

**LTE Band 5 part:**

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	83	0.099223	±2.5	Pass
	3.85	74	0.088464		
	3.50	62	0.074118		
16QAM					
25	4.40	88	0.105200	±2.5	Pass
	3.85	90	0.107591		
	3.50	74	0.088464		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

## LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	87	0.034320	Within authorized band for Band 7	Pass
	3.85	70	0.027613		
	3.50	58	0.022880		
16QAM					
25	4.40	90	0.035503	Within authorized band for Band 7	Pass
	3.85	79	0.031164		
	3.50	60	0.023669		
Note: Only the worst case shown in the report.					

## LTE Band 12 part:

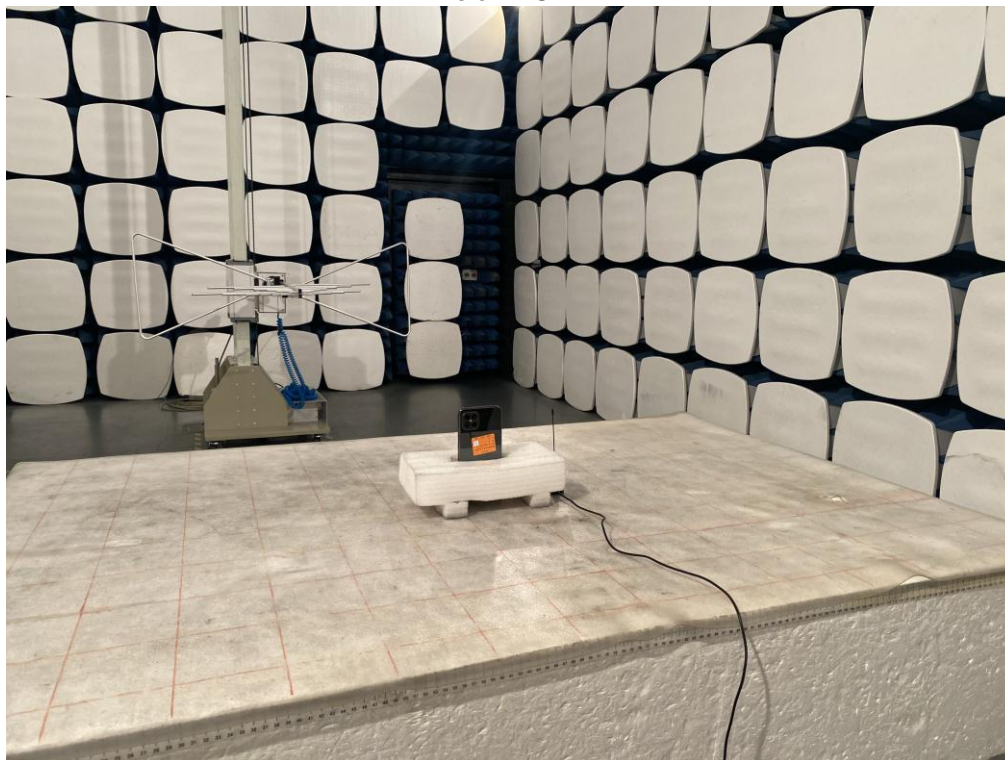
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 channel=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	96	0.135689	Within authorized band for Band 12	Pass
	3.85	88	0.124382		
	3.50	76	0.107420		
16QAM					
25	4.40	91	0.128622	Within authorized band for Band 12	Pass
	3.85	80	0.113074		
	3.50	77	0.108834		
Note: Only the worst case shown in the report.					

## LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.40	80	0.112676	Within authorized band for Band 17	Pass
	3.85	74	0.104225		
	3.50	60	0.084507		
16QAM					
25	4.40	99	0.139437	Within authorized band for Band 17	Pass
	3.85	80	0.112676		
	3.50	76	0.107042		
Note: Only the worst case shown in the report.					

## 7 Test Setup Photo

Radiated Spurious Emission  
Below 1GHz



Above 1GHz



## **8 EUT Constructional Details**

Reference to the test report No. CCISE200707501

-----End of report-----