



FCC RF Test Report

APPLICANT : Honeywell International Inc.
Honeywell Safety and Productivity Solutions

EQUIPMENT : Mobile Computer

BRAND NAME : Honeywell

MODEL NAME : CT40P-L1N

FCC ID : HD5-CT40PL1N

STANDARD : 47 CFR Part 2, 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jul. 24, 2020 and completely tested on Aug. 27, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG072404C	Rev. 01	Initial issue of report	Sep. 02, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(h)	Conducted Band Edge Measurement (Band 4)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(h)	Conducted Spurious Emission (Band 4)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(h)	Radiated Spurious Emission (Band 4)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 39.44 dB at 3423.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Honeywell International Inc.
Honeywell Safety and Productivity Solutions
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.2 Manufacturer

Honeywell International Inc.
Honeywell Safety and Productivity Solutions
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Computer
Brand Name	Honeywell
Model Name	CT40P-L1N
FCC ID	HD5-CT40PL1N
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/NFC/GNSS WLAN 2.4GHz 802.11b/g/n (HT20/HT40) WLAN 5GHz 802.11a/n/ac (HT20/HT40/VHT20/VHT40/VHT80) Bluetooth BR / EDR / LE
IMEI Code	Conducted: 99001630000084903 Radiation: 990016300003215/990016300003203
HW Version	V2.0
SW Version	OS.03.003-HON.02.001
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz
Bandwidth	LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 4 : 23.45 dBm
Antenna Gain	LTE Band 4 : 2.5 dBi
Type of Modulation	QPSK / 16QAM / 64QAM



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.3811	1M09W7D	-	0.3162
3	1711.5 ~ 1753.5	2M72G7D	-	0.3767	2M73W7D	-	0.3126
5	1712.5 ~ 1752.5	4M52G7D	-	0.3890	4M49W7D	-	0.3041
10	1715.0 ~ 1750.0	9M07G7D	0.0037	0.3899	9M03W7D	-	0.3097
15	1717.5 ~ 1747.5	13M5G7D	-	0.3908	13M5W7D	-	0.3126
20	1720.0 ~ 1745.0	18M5G7D	-	0.3936	18M4W7D	-	0.3097
LTE Band 4		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP(W)		
1.4	1710.7 ~ 1754.3	1M09W7D	-		0.2355		
3	1711.5 ~ 1753.5	2M73W7D	-		0.2489		
5	1712.5 ~ 1752.5	4M51W7D	-		0.2500		
10	1715.0 ~ 1750.0	9M05W7D	-		0.2421		
15	1717.5 ~ 1747.5	13M4W7D	-		0.2477		
20	1720.0 ~ 1745.0	18M4W7D	-		0.2506		

1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 27L
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

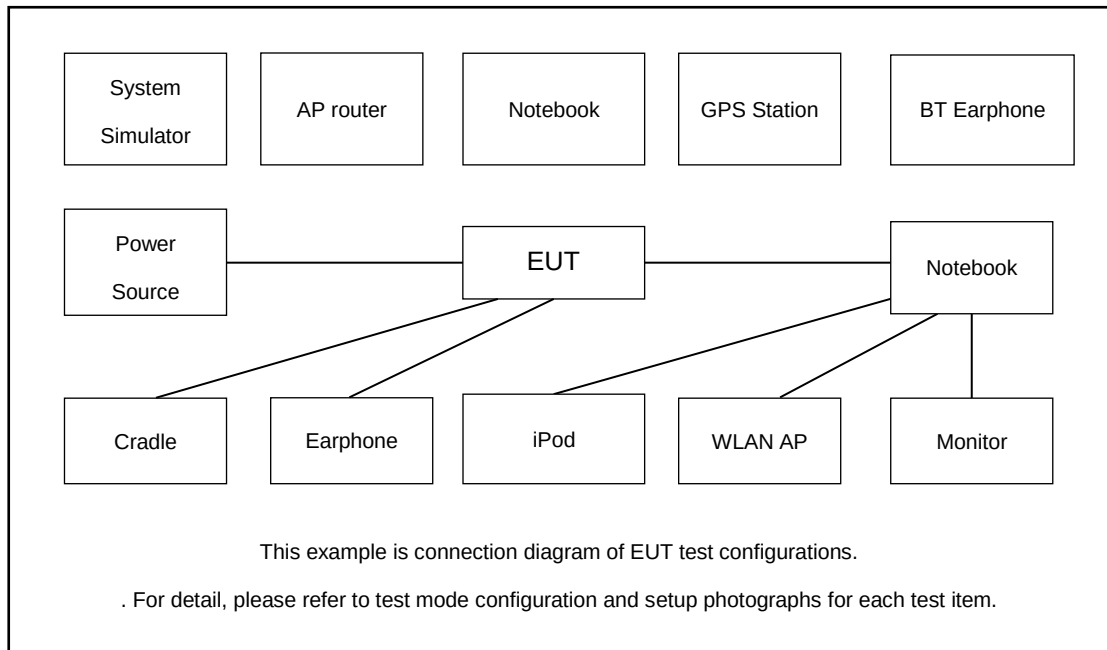
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	4						v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	4	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	4	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	4	v	v	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	4				v			v					v		v	
E.I.R.P	4	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	4	Worst Case												v	v	v
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.4 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

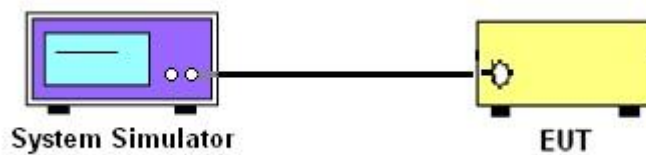
3 Conducted Test Items

3.1 Measuring Instruments

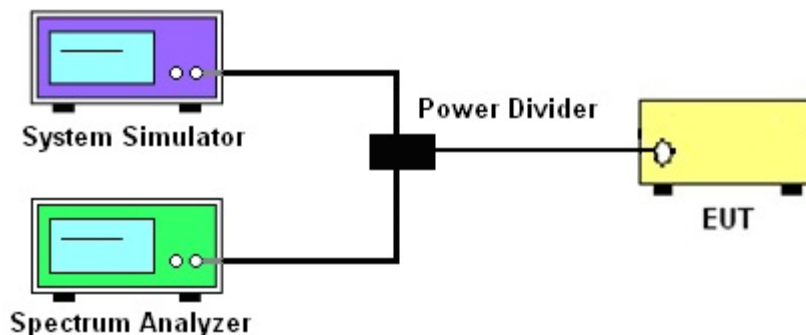
See list of measuring instruments of this test report.

3.2 Test Setup

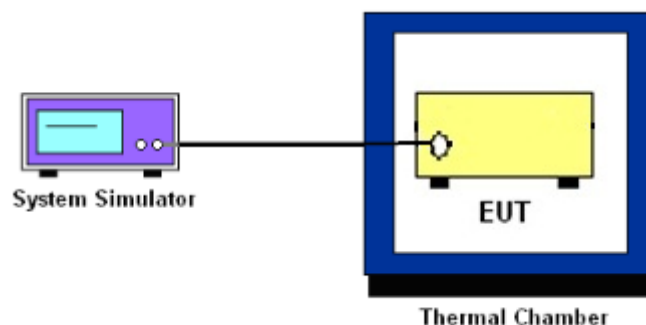
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB}) = -13\text{dBm}.$

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

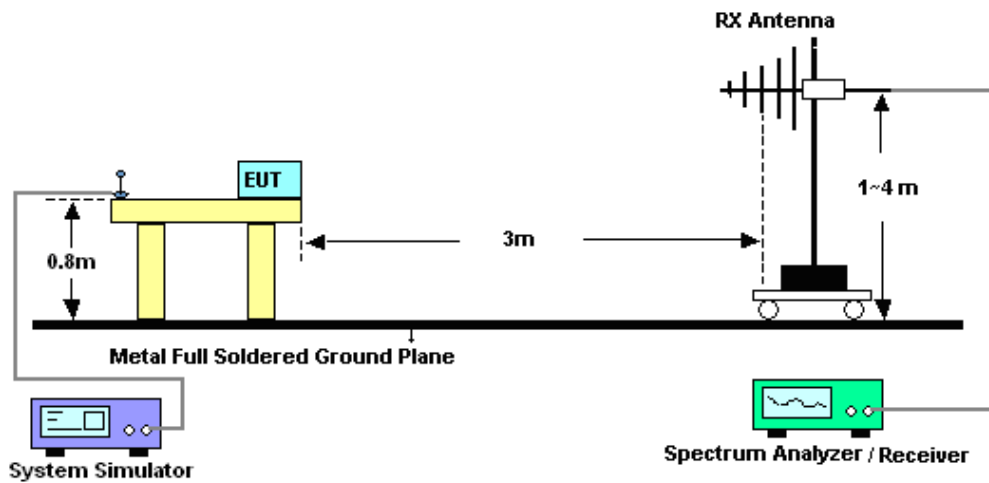
4 Radiated Test Items

4.1 Measuring Instruments

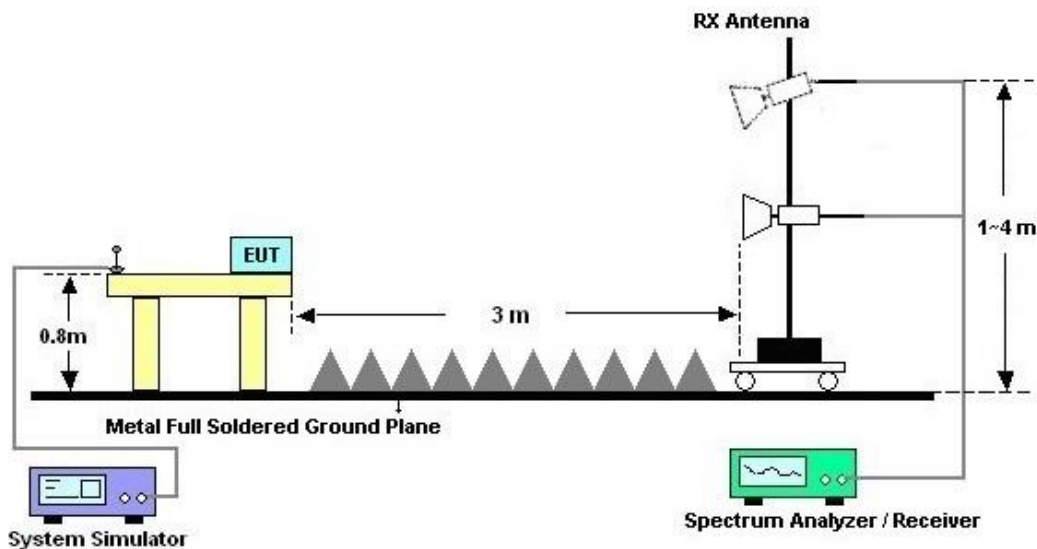
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Aug. 27, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 28, 2019	Aug. 27, 2020	Oct. 27, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Aug. 03, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 03, 2020	Aug. 03, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Aug. 03, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Aug. 03, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 03, 2020	Aug. 03, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Aug. 03, 2020	Jan. 7, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	2025788	1Ghz-18Ghz	Jan. 02, 2020	Aug. 03, 2020	Jan. 03, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct.15, 2019	Aug. 03, 2020	Oct.14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 03, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 03, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 03, 2020	NCR	Radiation (03CH04-KS)

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.41	23.45	23.42
20	QPSK	1	49	23.41	23.08	23.44
20	QPSK	1	99	23.39	23.24	23.34
20	QPSK	50	0	22.22	22.43	22.25
20	QPSK	50	24	22.31	22.27	22.35
20	QPSK	50	50	22.29	22.25	22.31
20	QPSK	100	0	22.33	22.37	22.25
20	16QAM	1	0	22.42	22.42	22.44
20	16QAM	1	49	22.41	22.37	22.30
20	16QAM	1	99	22.24	22.26	22.19
20	16QAM	50	0	21.41	21.45	21.42
20	16QAM	50	24	21.44	21.48	21.45
20	16QAM	50	50	21.38	21.33	21.48
20	16QAM	100	0	21.39	21.39	21.40
20	64QAM	1	0	21.45	21.31	21.40
20	64QAM	1	49	21.23	21.45	21.39
20	64QAM	1	99	21.36	21.40	21.49
20	64QAM	50	0	20.20	20.28	20.19
20	64QAM	50	24	20.29	20.18	20.23
20	64QAM	50	50	20.20	20.10	20.19
20	64QAM	100	0	20.19	20.18	20.21
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.42	23.39	23.33
15	QPSK	1	37	23.01	23.10	23.20
15	QPSK	1	74	23.18	23.24	23.29



15	QPSK	36	0	22.30	22.27	22.26
15	QPSK	36	20	22.18	22.19	22.35
15	QPSK	36	39	22.12	22.14	22.20
15	QPSK	75	0	22.10	22.21	22.30
15	16QAM	1	0	22.11	22.45	22.39
15	16QAM	1	37	22.17	22.15	22.03
15	16QAM	1	74	22.21	22.16	22.23
15	16QAM	36	0	21.49	21.32	21.44
15	16QAM	36	20	21.27	21.38	21.37
15	16QAM	36	39	21.20	21.32	21.39
15	16QAM	75	0	21.40	21.25	21.48
15	64QAM	1	0	21.20	21.44	21.25
15	64QAM	1	37	21.35	21.12	21.23
15	64QAM	1	74	21.09	21.05	21.31
15	64QAM	36	0	20.14	20.12	20.13
15	64QAM	36	20	20.08	20.06	20.17
15	64QAM	36	39	20.00	20.13	20.08
15	64QAM	75	0	19.95	20.01	20.14
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.20	23.31	23.41
10	QPSK	1	25	23.09	23.22	23.16
10	QPSK	1	49	23.23	23.20	23.29
10	QPSK	25	0	22.34	22.36	22.38
10	QPSK	25	12	22.21	22.28	22.41
10	QPSK	25	25	22.23	22.22	22.25
10	QPSK	50	0	22.25	22.21	22.36
10	16QAM	1	0	22.34	22.24	22.41
10	16QAM	1	25	22.16	22.15	22.35
10	16QAM	1	49	22.28	22.27	22.24
10	16QAM	25	0	21.16	21.32	21.20
10	16QAM	25	12	21.05	21.19	21.36
10	16QAM	25	25	21.05	21.05	21.18
10	16QAM	50	0	21.04	20.97	21.14
10	64QAM	1	0	21.11	21.00	21.30
10	64QAM	1	25	21.24	21.34	21.31



10	64QAM	1	49	21.24	21.33	21.31
10	64QAM	25	0	20.39	20.27	20.29
10	64QAM	25	12	20.15	20.29	20.34
10	64QAM	25	25	20.17	20.25	20.27
10	64QAM	50	0	20.12	20.05	20.34
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.29	23.32	23.40
5	QPSK	1	12	23.17	23.16	23.38
5	QPSK	1	24	23.21	23.39	23.27
5	QPSK	12	0	22.38	22.25	22.39
5	QPSK	12	7	22.20	22.29	22.26
5	QPSK	12	13	22.24	22.30	22.30
5	QPSK	25	0	22.23	22.24	22.40
5	16QAM	1	0	22.18	22.23	22.33
5	16QAM	1	12	22.11	22.21	22.33
5	16QAM	1	24	22.11	22.16	22.28
5	16QAM	12	0	21.23	21.20	21.36
5	16QAM	12	7	21.17	21.24	21.23
5	16QAM	12	13	21.21	21.12	21.26
5	16QAM	25	0	21.19	21.18	21.22
5	64QAM	1	0	21.39	21.33	21.43
5	64QAM	1	12	21.31	21.28	21.40
5	64QAM	1	24	21.22	21.27	21.48
5	64QAM	12	0	20.26	20.21	20.38
5	64QAM	12	7	20.21	20.27	20.37
5	64QAM	12	13	20.12	20.14	20.28
5	64QAM	25	0	20.27	20.26	20.18
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.22	23.26	23.26
3	QPSK	1	8	23.24	23.23	23.26
3	QPSK	1	14	23.22	23.18	23.11
3	QPSK	8	0	22.28	22.22	22.38
3	QPSK	8	4	22.26	22.17	22.34
3	QPSK	8	7	22.26	22.18	22.30



3	QPSK	15	0	22.27	22.18	22.26
3	16QAM	1	0	22.41	22.39	22.31
3	16QAM	1	8	22.41	22.14	22.42
3	16QAM	1	14	22.40	22.31	22.45
3	16QAM	8	0	21.17	21.17	21.22
3	16QAM	8	4	21.22	21.20	21.31
3	16QAM	8	7	21.16	21.25	21.30
3	16QAM	15	0	21.43	21.36	21.41
3	64QAM	1	0	21.42	21.16	21.42
3	64QAM	1	8	21.43	21.41	21.37
3	64QAM	1	14	21.46	21.35	21.44
3	64QAM	8	0	20.35	20.37	20.41
3	64QAM	8	4	20.42	20.34	20.33
3	64QAM	8	7	20.32	20.30	20.35
3	64QAM	15	0	20.18	20.20	20.28
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.00	23.10	23.25
1.4	QPSK	1	3	23.22	23.22	23.26
1.4	QPSK	1	5	23.15	23.08	23.19
1.4	QPSK	3	0	23.08	23.19	23.18
1.4	QPSK	3	1	23.24	23.23	23.31
1.4	QPSK	3	3	23.22	23.24	23.24
1.4	QPSK	6	0	22.21	22.28	22.23
1.4	16QAM	1	0	22.39	22.41	22.43
1.4	16QAM	1	3	22.50	22.49	22.38
1.4	16QAM	1	5	22.42	22.45	22.45
1.4	16QAM	3	0	22.35	22.42	22.44
1.4	16QAM	3	1	22.43	22.39	22.48
1.4	16QAM	3	3	22.38	22.38	22.42
1.4	16QAM	6	0	21.43	21.37	21.35
1.4	64QAM	1	0	21.00	21.06	21.10
1.4	64QAM	1	3	21.06	21.15	21.22
1.4	64QAM	1	5	21.01	21.04	21.12
1.4	64QAM	3	0	20.91	20.86	20.99
1.4	64QAM	3	1	20.97	20.93	21.13



1.4	64QAM	3	3	21.04	21.04	20.93
1.4	64QAM	6	0	19.89	20.05	20.11

EIRP

LTE Band 4 (GT - LC = 2.50 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	23.24	23.23	23.31	23.22	23.26	23.26	23.29	23.32	23.40
Conducted Power (Watts)	0.2109	0.2104	0.2143	0.2099	0.2118	0.2118	0.2133	0.2148	0.2188
EIRP(dBm)	25.74	25.73	25.81	25.72	25.76	25.76	25.79	25.82	25.90
EIRP(Watts)	0.3750	0.3741	0.3811	0.3733	0.3767	0.3767	0.3793	0.3819	0.3890

LTE Band 4 (GT - LC = 2.50 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	23.20	23.31	23.41	23.42	23.39	23.33	23.41	23.45	23.42
Conducted Power (Watts)	0.2089	0.2143	0.2193	0.2198	0.2183	0.2153	0.2193	0.2213	0.2198
EIRP(dBm)	25.70	25.81	25.91	25.92	25.89	25.83	25.91	25.95	25.92
EIRP(Watts)	0.3715	0.3811	0.3899	0.3908	0.3882	0.3828	0.3899	0.3936	0.3908



LTE Band 4 (GT - LC = 2.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.50	22.49	22.38	22.40	22.31	22.45	22.18	22.23	22.33
Conducted Power (Watts)	0.1778	0.1774	0.1730	0.1738	0.1702	0.1758	0.1652	0.1671	0.1710
EIRP(dBm)	25.00	24.99	24.88	24.90	24.81	24.95	24.68	24.73	24.83
EIRP(Watts)	0.3162	0.3155	0.3076	0.3090	0.3027	0.3126	0.2938	0.2972	0.3041

LTE Band 4 (GT - LC = 2.50 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.34	22.24	22.41	22.11	22.45	22.39	22.41	22.37	22.30
Conducted Power (Watts)	0.1714	0.1675	0.1742	0.1626	0.1758	0.1734	0.1742	0.1726	0.1698
EIRP(dBm)	24.84	24.74	24.91	24.61	24.95	24.89	24.91	24.87	24.80
EIRP(Watts)	0.3048	0.2979	0.3097	0.2891	0.3126	0.3083	0.3097	0.3069	0.3020



LTE Band 4 (GT - LC = 2.50 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.06	21.15	21.22	21.46	21.35	21.44	21.22	21.27	21.48
Conducted Power (Watts)	0.1276	0.1303	0.1324	0.1400	0.1365	0.1393	0.1324	0.1340	0.1406
EIRP(dBm)	23.56	23.65	23.72	23.96	23.85	23.94	23.72	23.77	23.98
EIRP(Watts)	0.2270	0.2317	0.2355	0.2489	0.2427	0.2477	0.2355	0.2382	0.2500

LTE Band 4 (GT - LC = 2.50 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.24	21.34	21.31	21.20	21.44	21.25	21.36	21.40	21.49
Conducted Power (Watts)	0.1330	0.1361	0.1352	0.1318	0.1393	0.1334	0.1368	0.1380	0.1409
EIRP(dBm)	23.74	23.84	23.81	23.70	23.94	23.75	23.86	23.90	23.99
EIRP(Watts)	0.2366	0.2421	0.2404	0.2344	0.2477	0.2371	0.2432	0.2455	0.2506



LTE Band 4

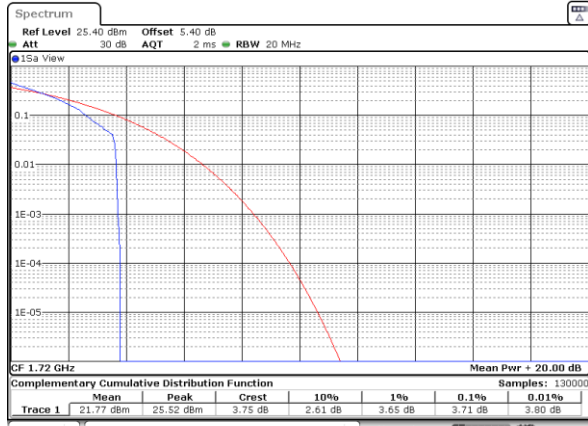
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.70	5.45	6.03	PASS
Middle CH	3.74	4.67	5.48	6.03	
Highest CH	3.74	4.58	5.33	5.97	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.67	6.61	-	-	PASS
Middle CH	7.22	6.61	-	-	
Highest CH	6.90	6.61	-	-	

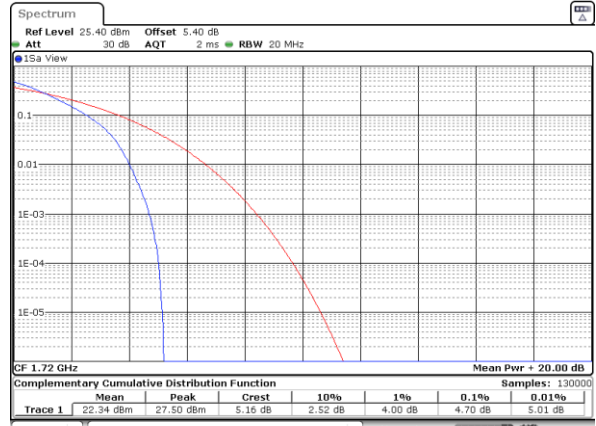


LTE Band 4 / 20MHz / QPSK

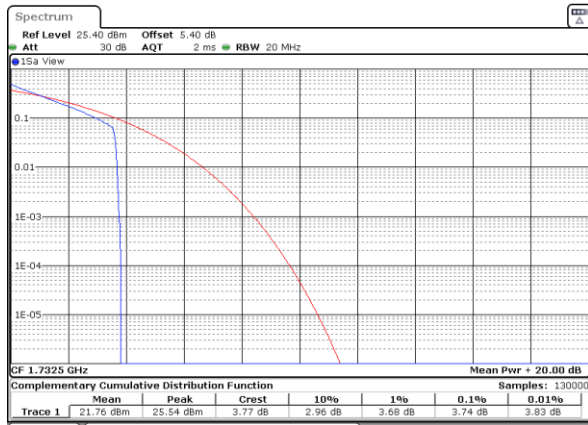
Lowest Channel / 1RB



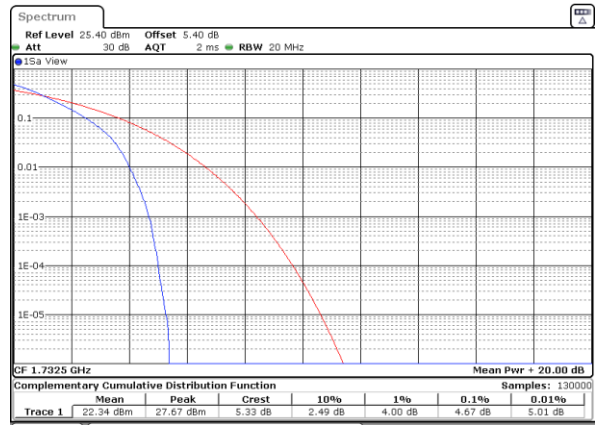
Lowest Channel / Full RB



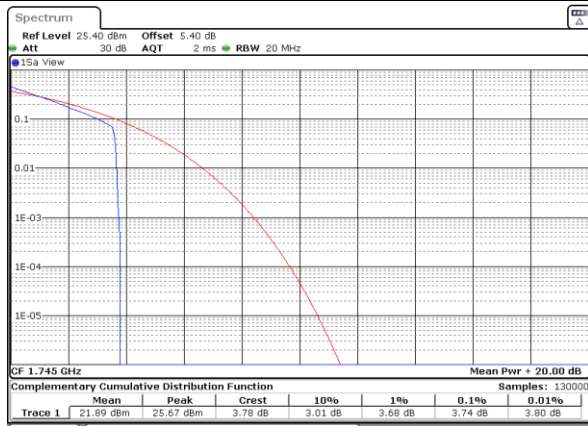
Middle Channel / 1RB



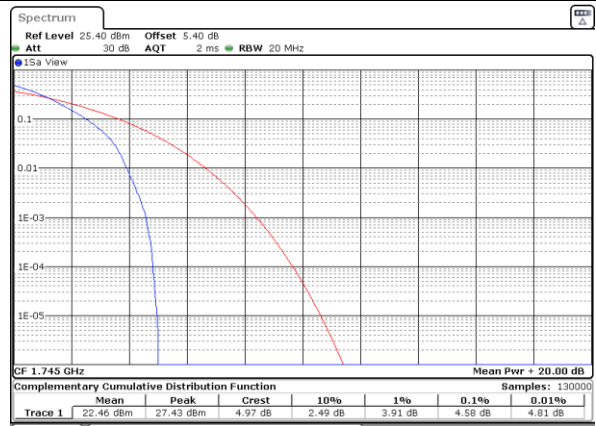
Middle Channel / Full RB



Highest Channel / 1RB



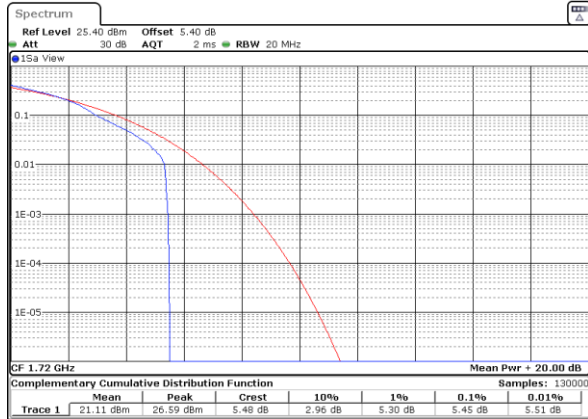
Highest Channel / Full RB





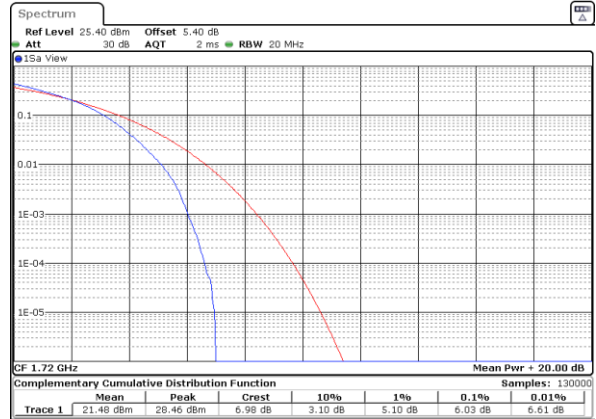
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



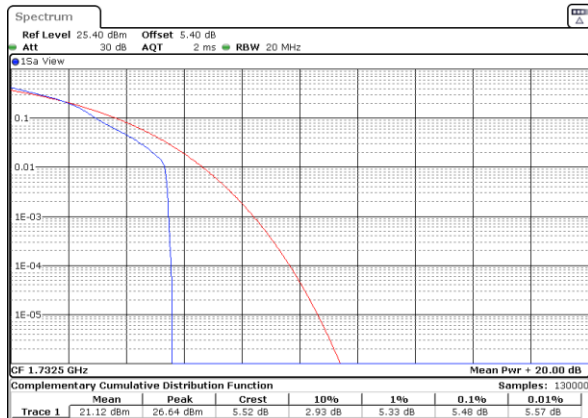
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Lowest Channel / Full RB



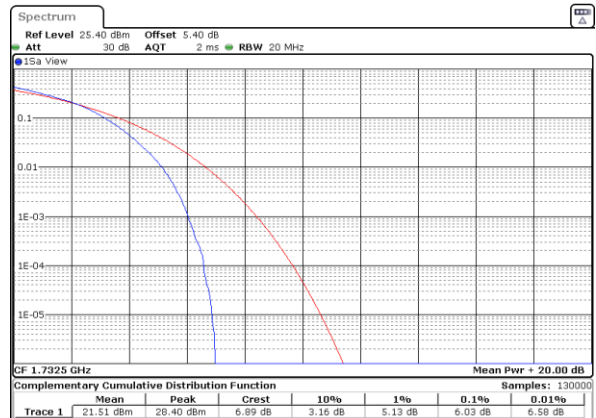
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Middle Channel / 1RB



Date: 27.AUG.2020 02:59:46

Middle Channel / Full RB



Date: 27.AUG.2020 02:59:55

Highest Channel / 1RB

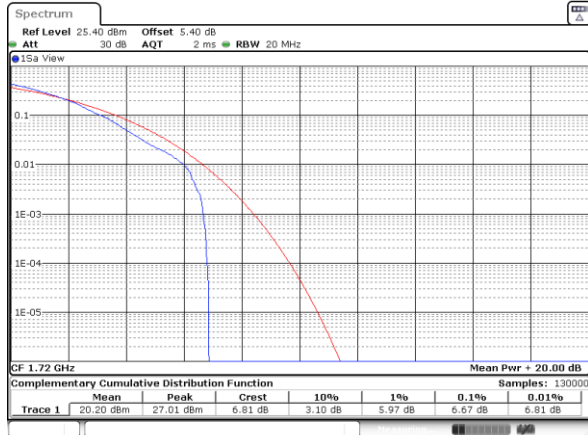
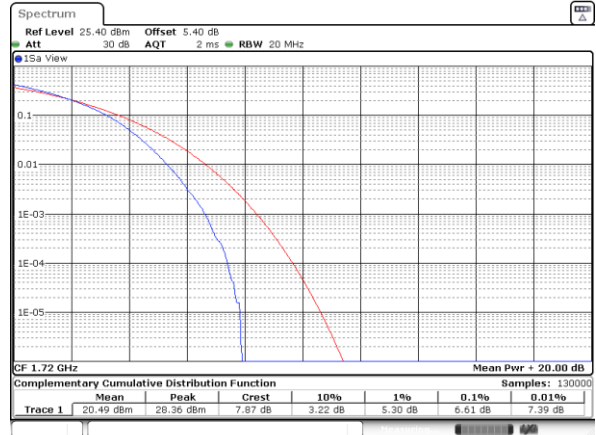
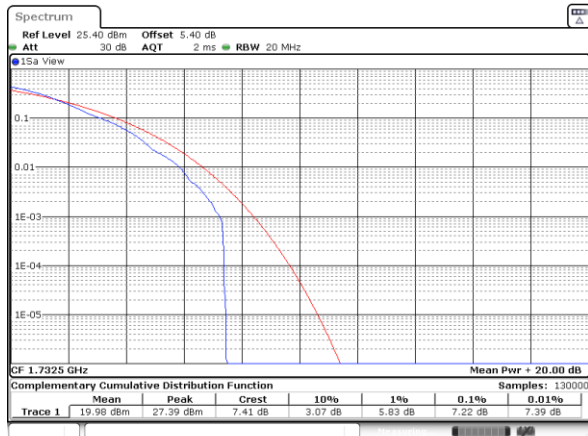
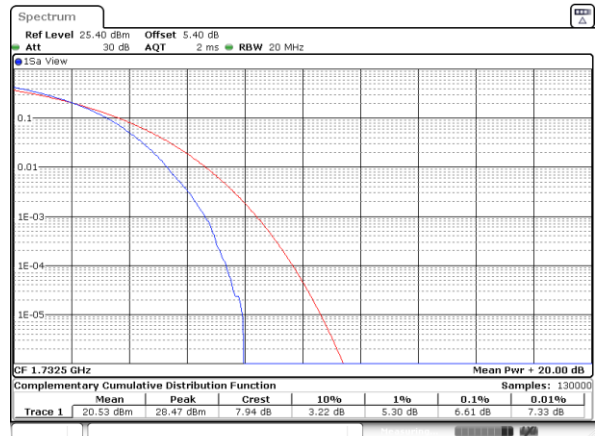
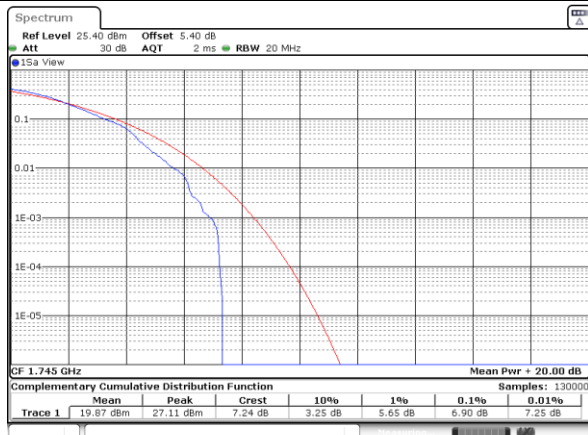
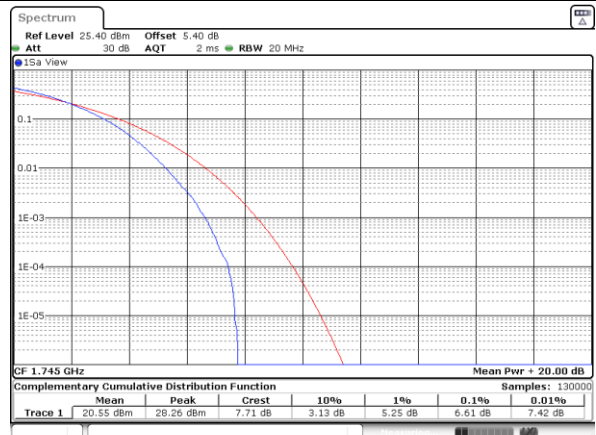


Date: 27.AUG.2020 03:00:04

Highest Channel / Full RB



Date: 27.AUG.2020 03:00:13

LTE Band 4 / 20MHz / 64QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


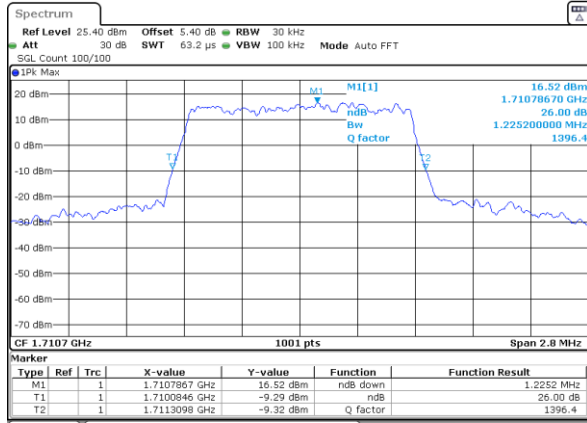
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.22	3.08	3.01	4.97	4.93	9.81	9.73	14.45	14.51	20.30	20.14
Middle CH	1.22	1.22	3.01	3.06	4.93	4.85	9.71	9.65	14.36	14.21	20.18	20.22
Highest CH	1.23	1.23	3.03	3.03	5.01	4.87	9.87	9.73	14.39	14.30	20.10	20.06
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	3.01	-	4.87	-	9.93	-	14.27	-	20.10	-
Middle CH	1.23	-	3.02	-	4.97	-	9.89	-	14.39	-	20.18	-
Highest CH	1.22	-	3.04	-	4.81	-	9.87	-	14.36	-	20.14	-



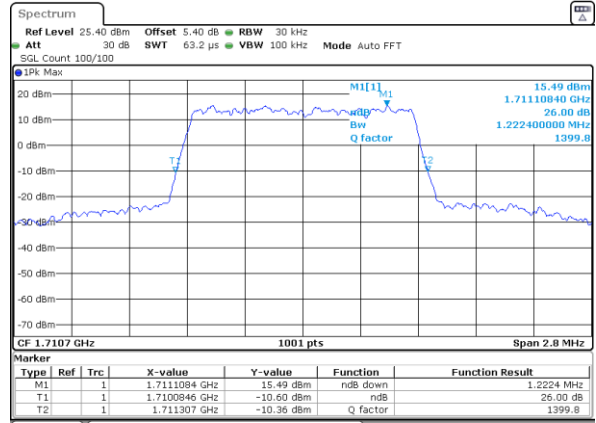
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



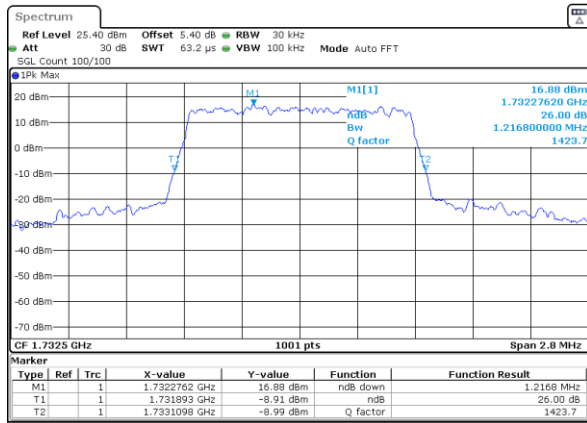
Date: 27.AUG.2020 00:45:13

Lowest Channel / 1.4MHz / 16QAM



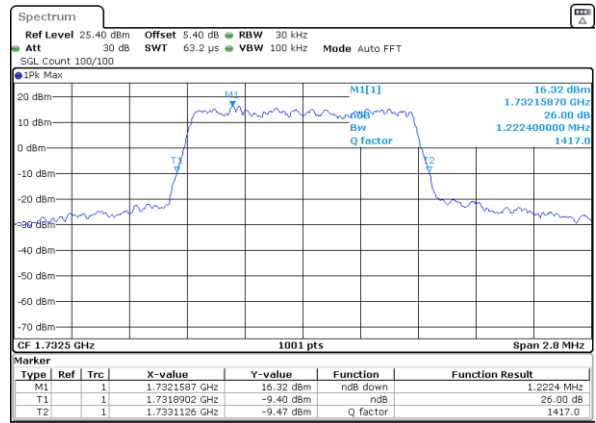
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Middle Channel / 1.4MHz / QPSK



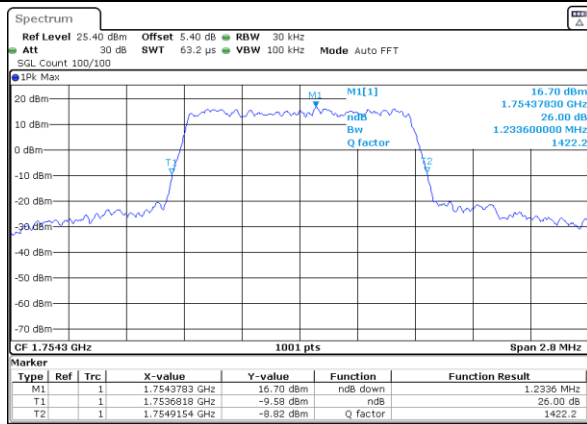
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Middle Channel / 1.4MHz / 16QAM



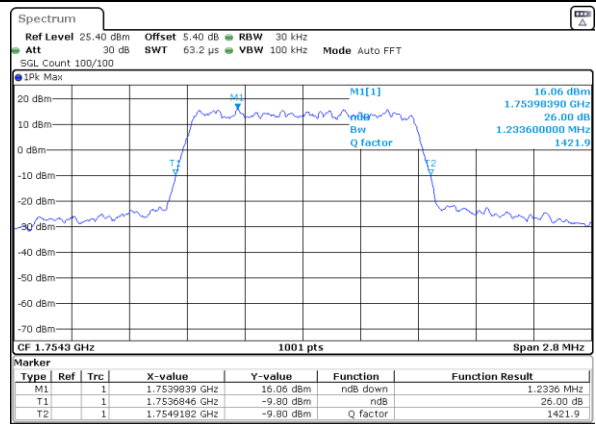
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Highest Channel / 1.4MHz / QPSK



Date: 27.AUG.2020 00:55:11

Highest Channel / 1.4MHz / 16QAM

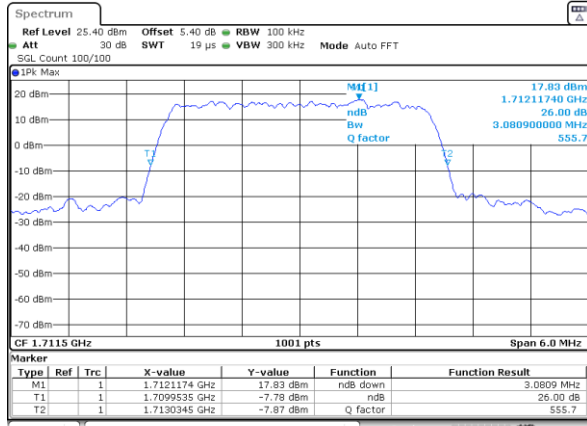


Date: 27.AUG.2020 00:55:22

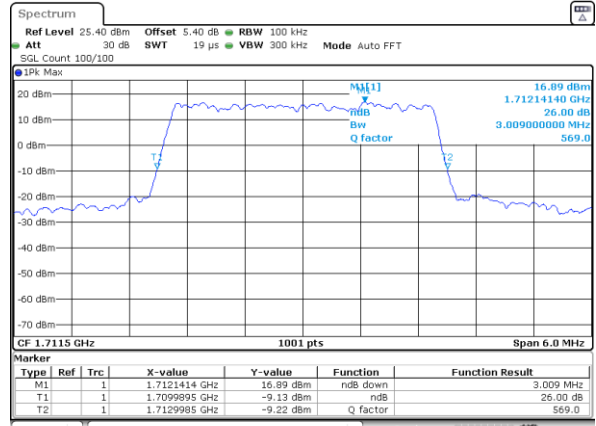


LTE Band 4

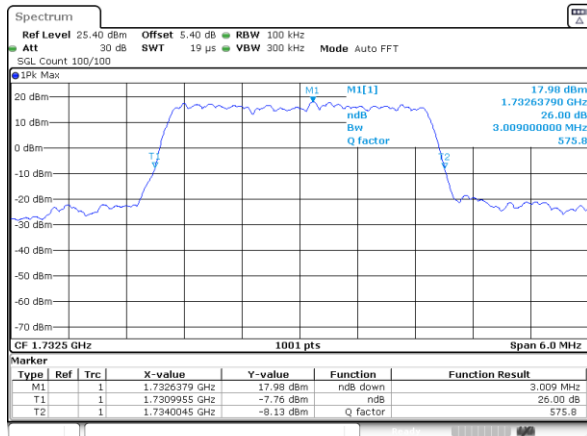
Lowest Channel / 3MHz / QPSK



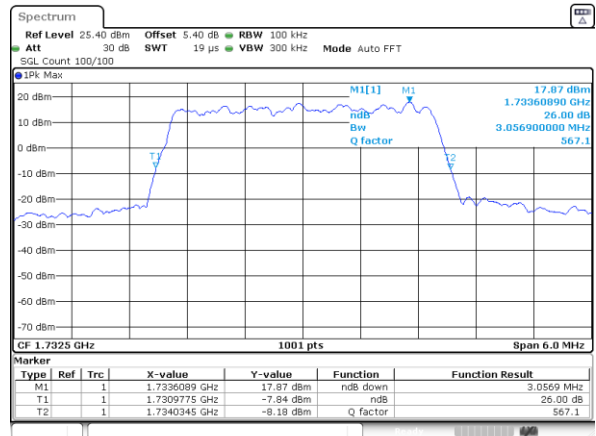
Lowest Channel / 3MHz / 16QAM



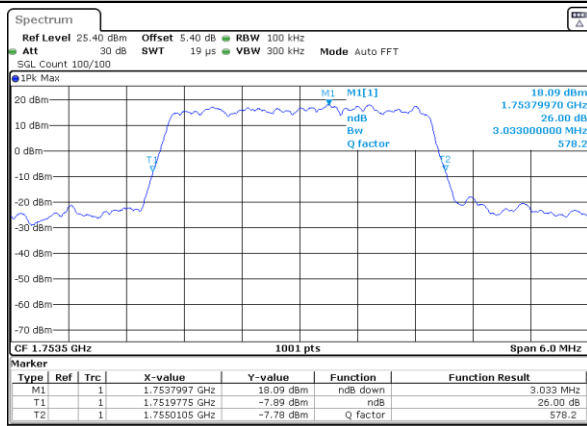
Middle Channel / 3MHz / QPSK



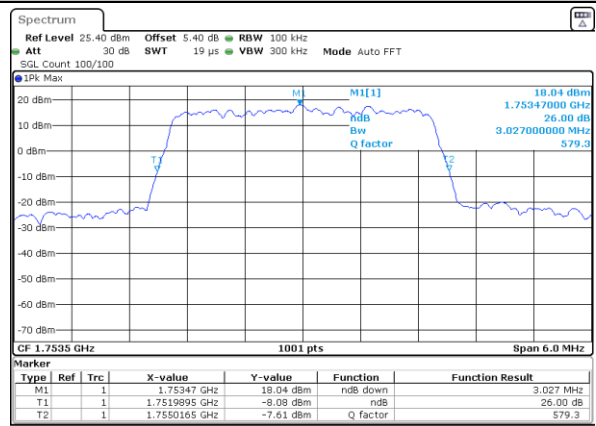
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



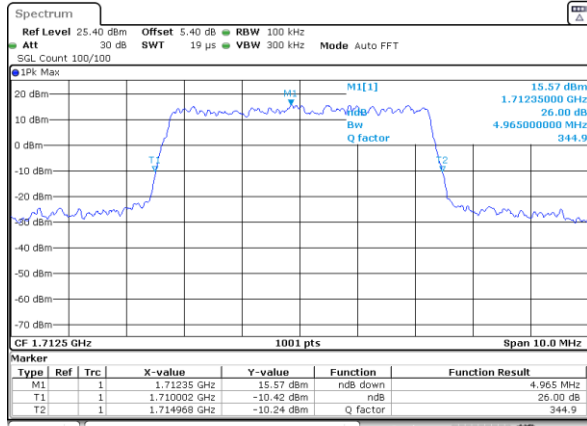
Highest Channel / 3MHz / 16QAM





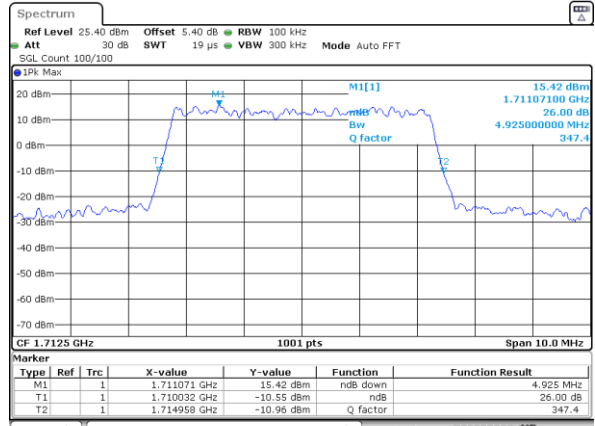
LTE Band 4

Lowest Channel / 5MHz / QPSK



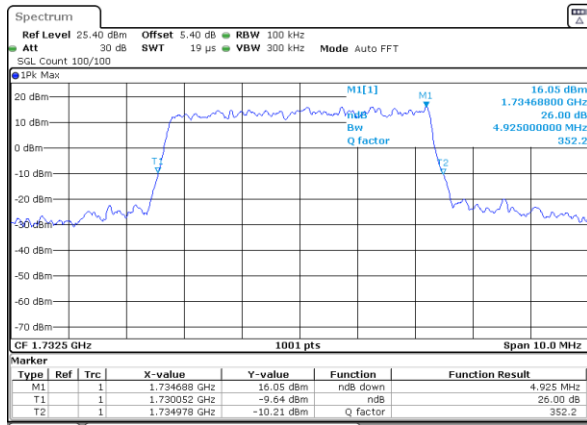
Date: 27.AUG.2020 01:22:06

Lowest Channel / 5MHz / 16QAM



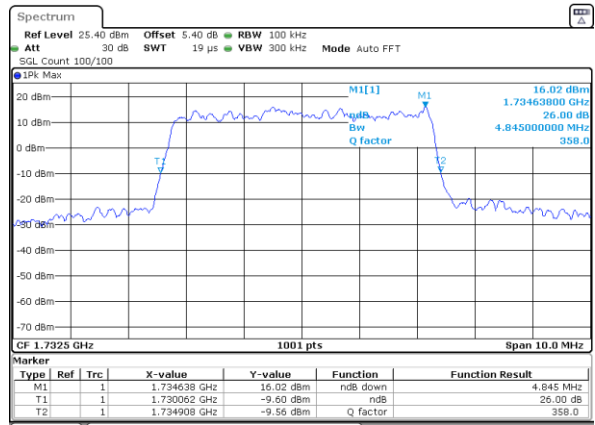
Date: 27.AUG.2020 01:22:16

Middle Channel / 5MHz / QPSK



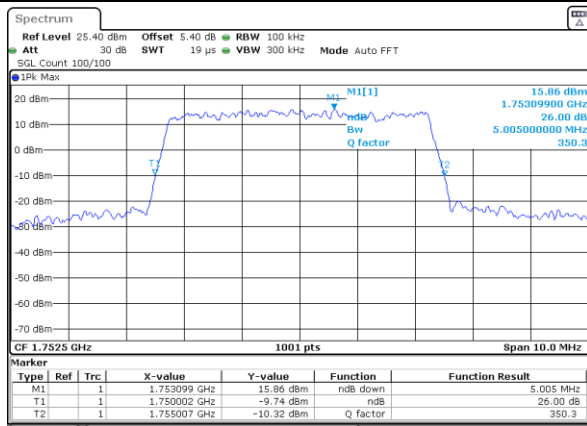
Date: 27.AUG.2020 01:29:12

Middle Channel / 5MHz / 16QAM



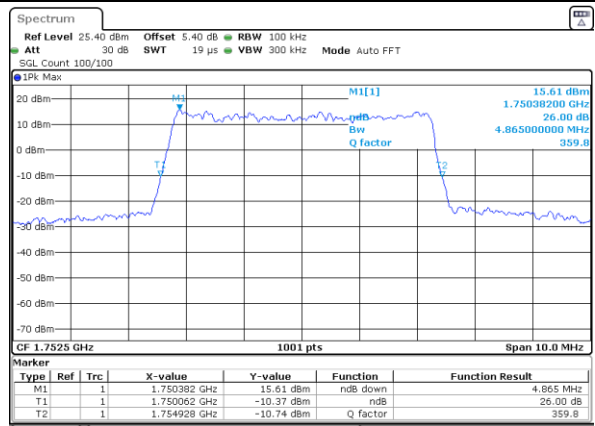
Date: 27.AUG.2020 01:29:22

Highest Channel / 5MHz / QPSK



Date: 27.AUG.2020 01:31:45

Highest Channel / 5MHz / 16QAM

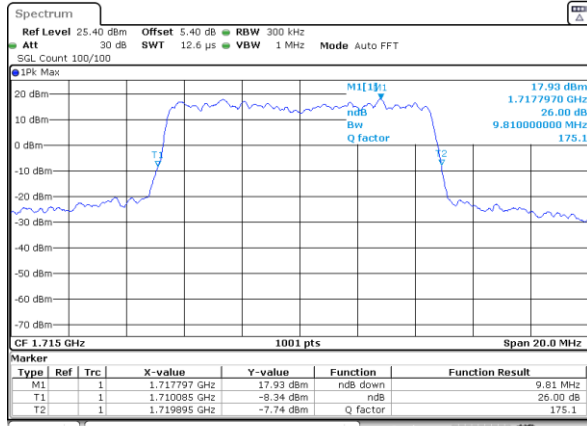


Date: 27.AUG.2020 01:31:55



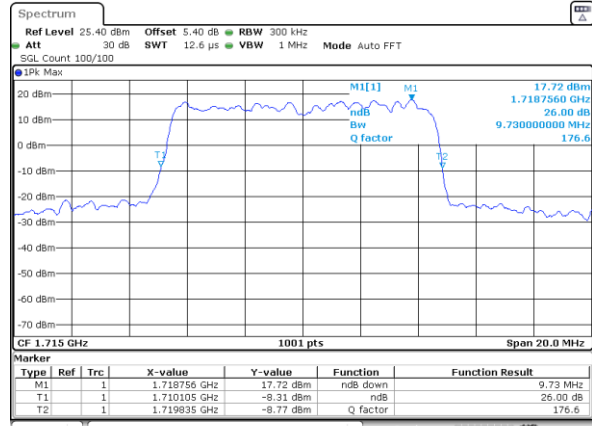
LTE Band 4

Lowest Channel / 10MHz / QPSK



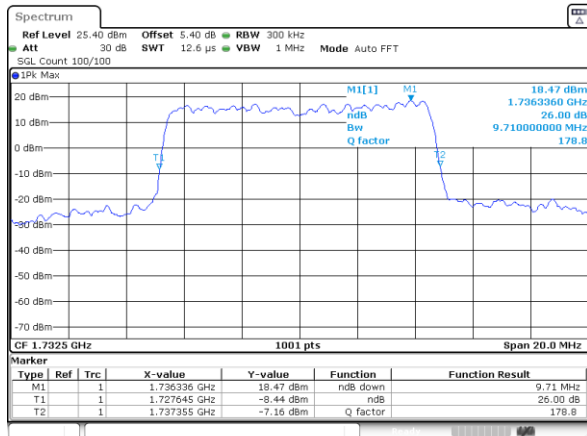
Date: 27.AUG.2020 01:46:28

Lowest Channel / 10MHz / 16QAM



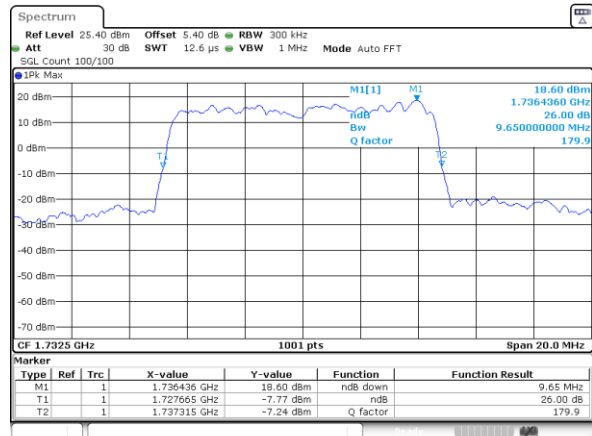
Date: 27.AUG.2020 01:46:38

Middle Channel / 10MHz / QPSK



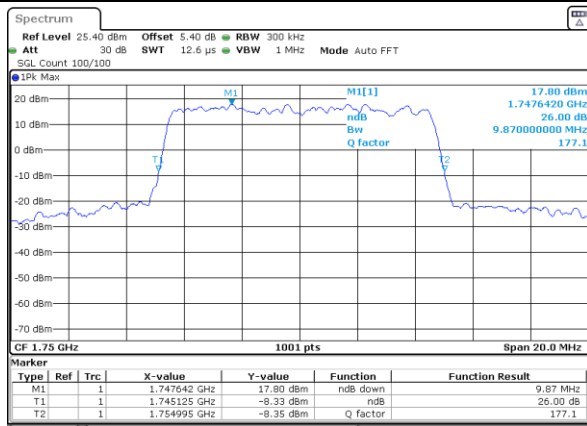
Date: 27.AUG.2020 01:53:33

Middle Channel / 10MHz / 16QAM



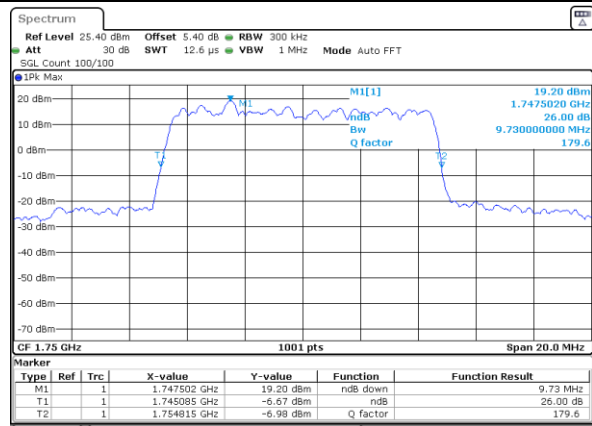
Date: 27.AUG.2020 01:53:43

Highest Channel / 10MHz / QPSK



Date: 27.AUG.2020 01:56:07

Highest Channel / 10MHz / 16QAM

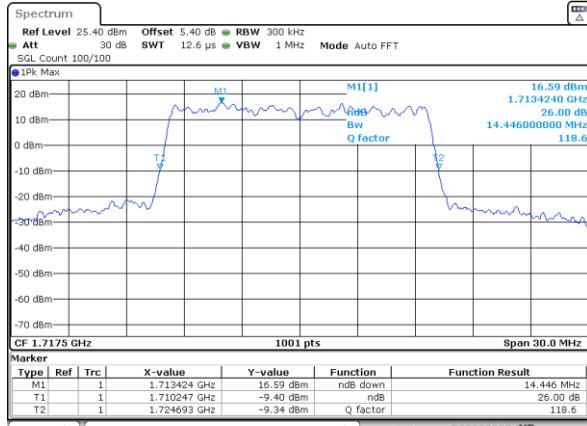


Date: 27.AUG.2020 01:56:17



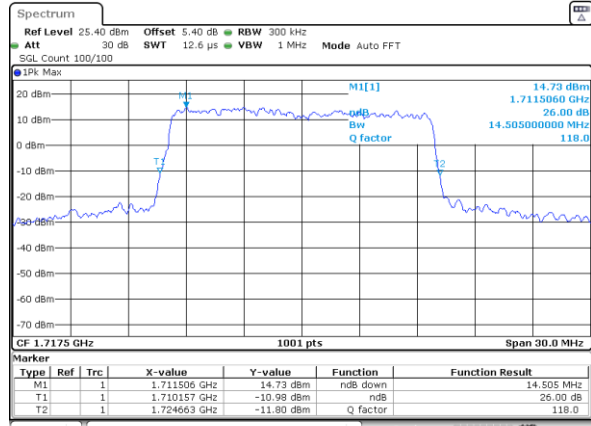
LTE Band 4

Lowest Channel / 15MHz / QPSK



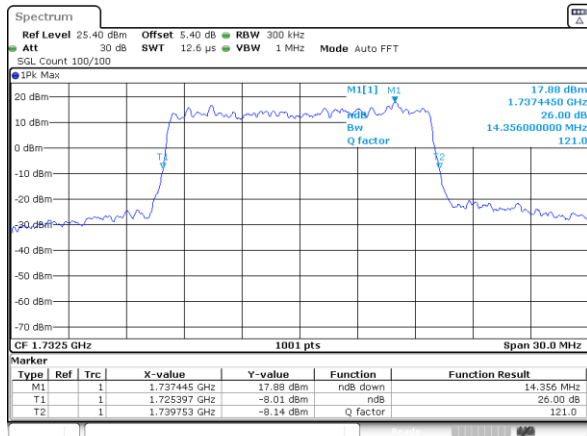
Date: 27.AUG.2020 02:20:27

Lowest Channel / 15MHz / 16QAM



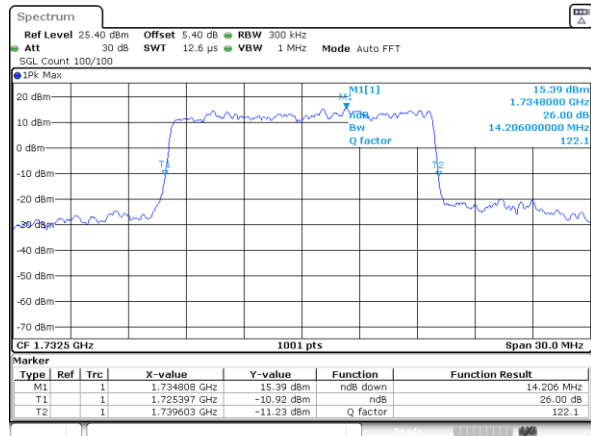
Date: 27.AUG.2020 02:12:37

Middle Channel / 15MHz / QPSK



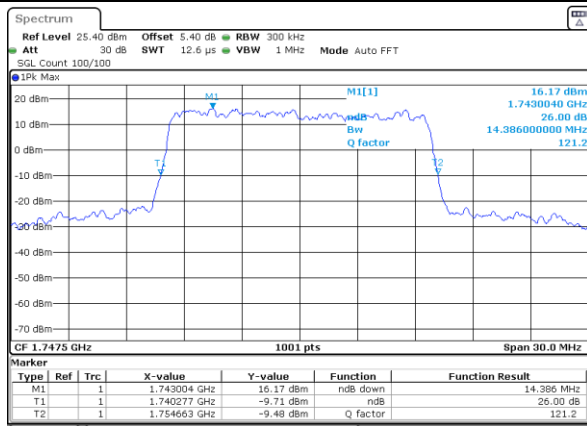
Date: 27.AUG.2020 02:17:33

Middle Channel / 15MHz / 16QAM



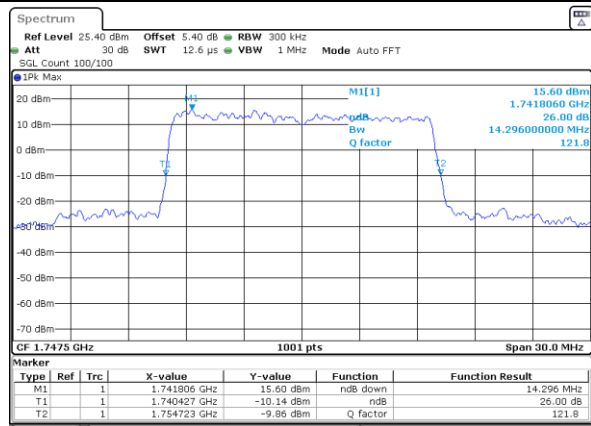
Date: 27.AUG.2020 02:17:43

Highest Channel / 15MHz / QPSK



Date: 27.AUG.2020 02:30:07

Highest Channel / 15MHz / 16QAM

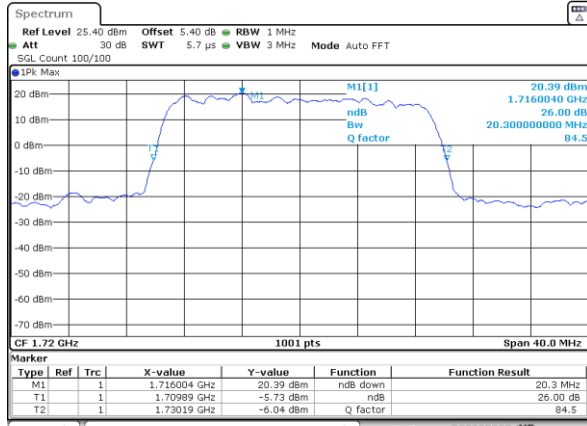


Date: 27.AUG.2020 02:30:17

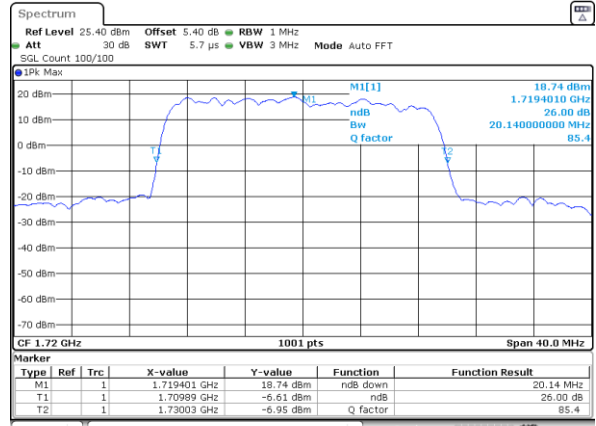


LTE Band 4

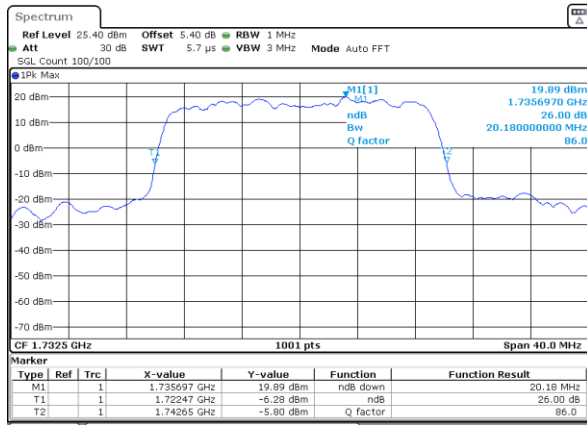
Lowest Channel / 20MHz / QPSK



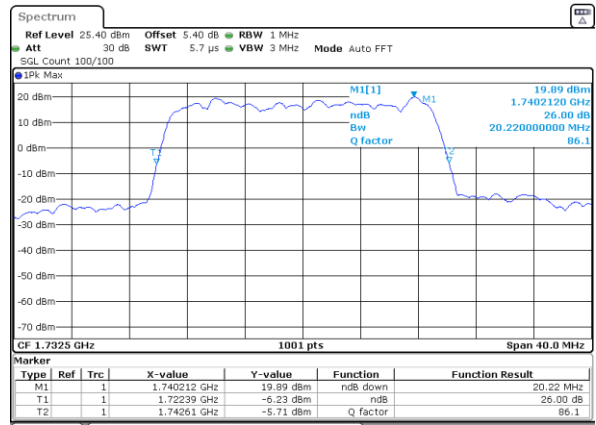
Lowest Channel / 20MHz / 16QAM



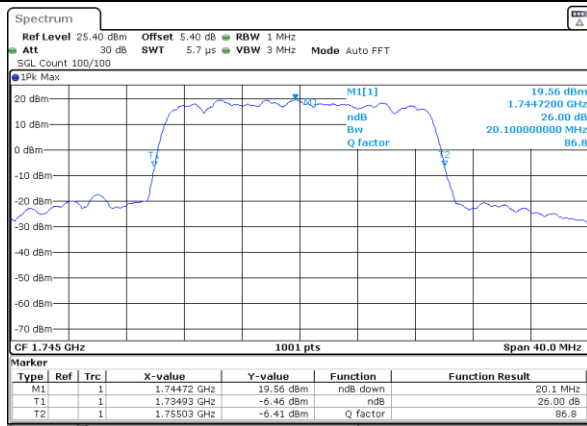
Middle Channel / 20MHz / QPSK



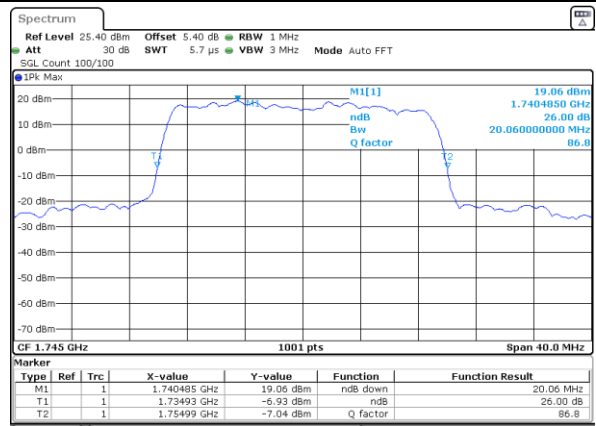
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



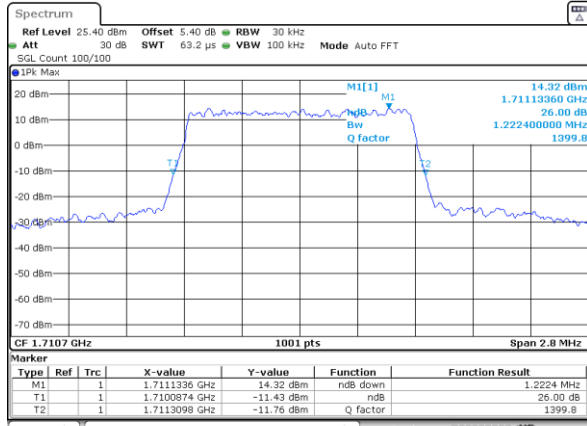
Highest Channel / 20MHz / 16QAM



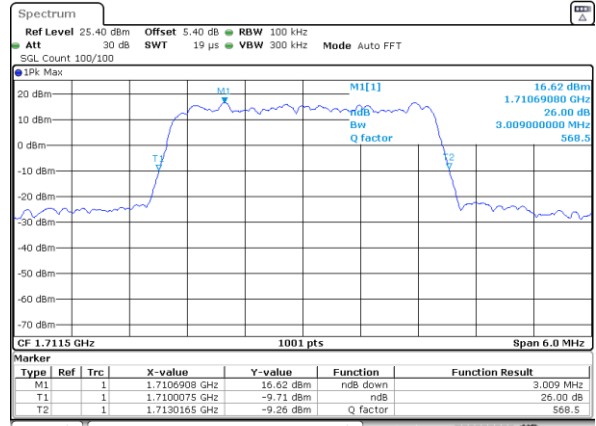


LTE Band 4

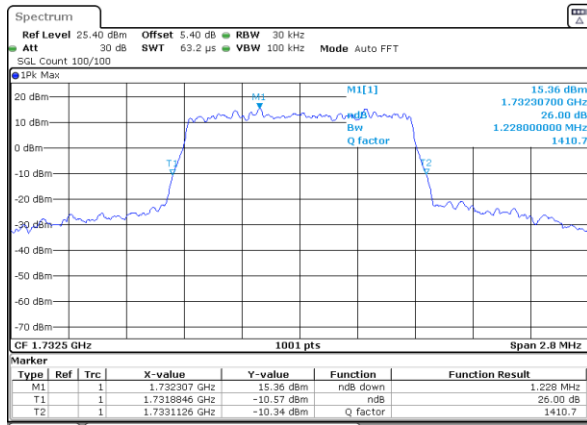
Lowest Channel / 1.4MHz / 64QAM



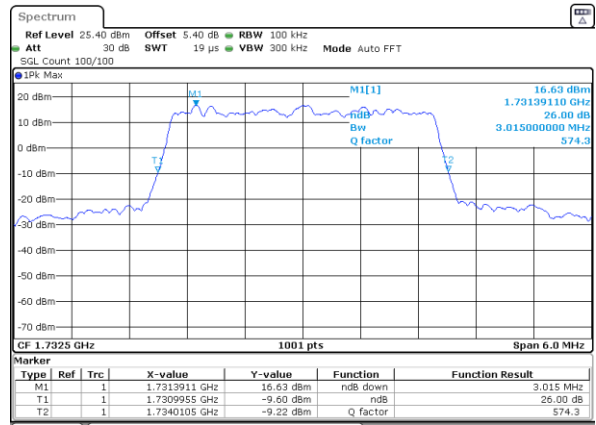
Lowest Channel / 3MHz / 64QAM



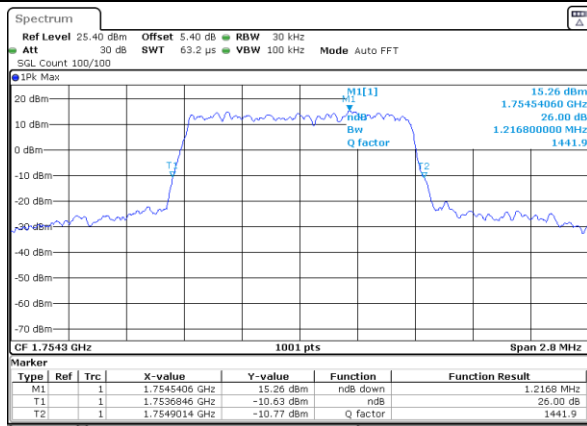
Middle Channel / 1.4MHz / 64QAM



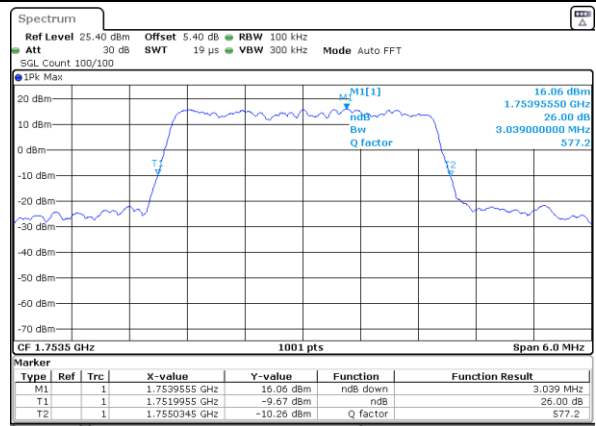
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



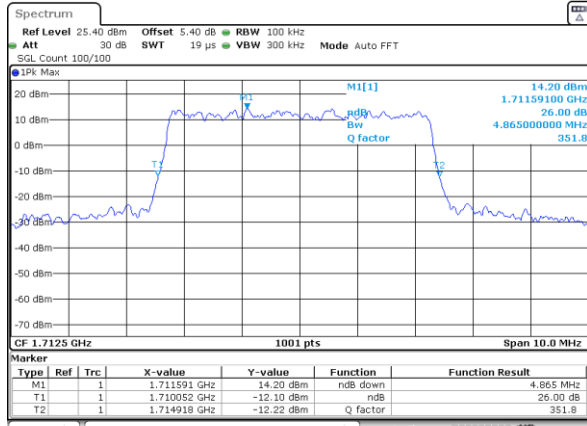
Highest Channel / 3MHz / 64QAM





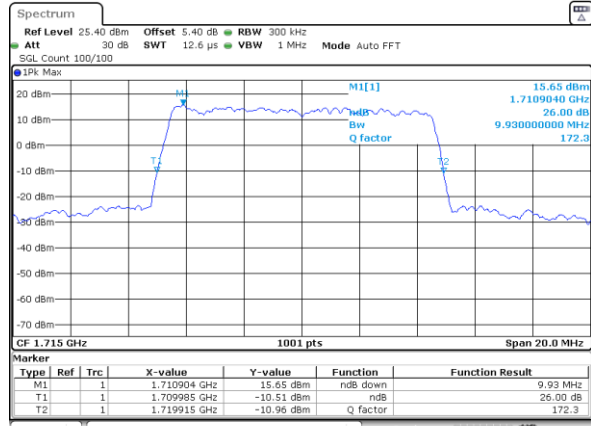
LTE Band 4

Lowest Channel / 5MHz / 64QAM



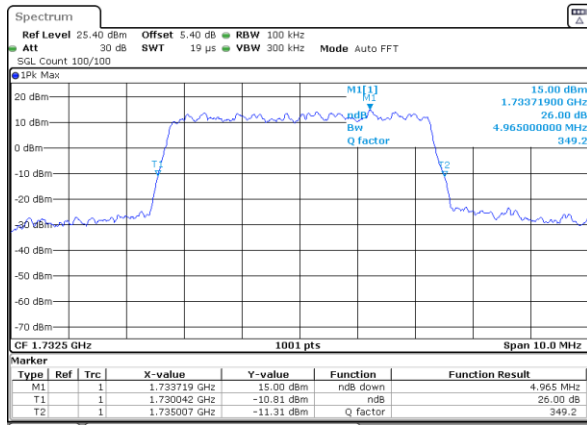
Date: 27.AUG.2020 03:26:55

Lowest Channel / 10MHz / 64QAM



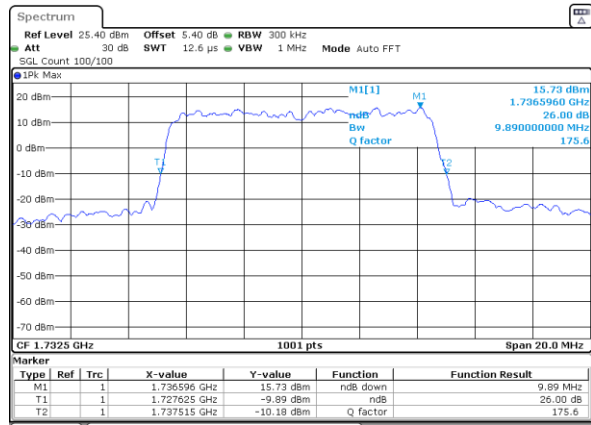
Date: 27.AUG.2020 03:37:58

Middle Channel / 5MHz / 64QAM



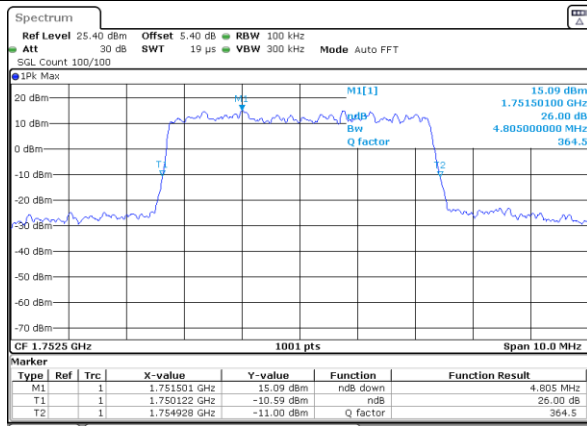
Date: 27.AUG.2020 03:36:27

Middle Channel / 10MHz / 64QAM



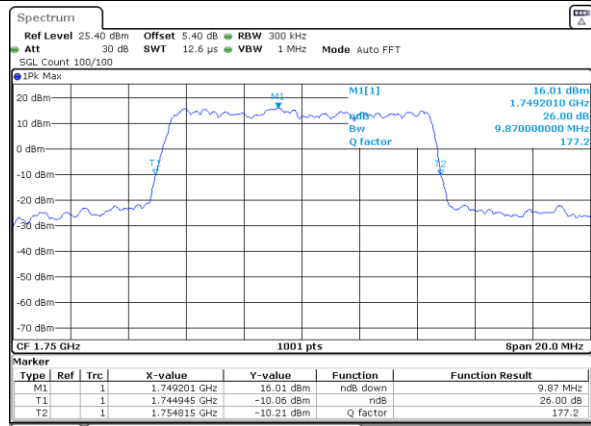
Date: 27.AUG.2020 03:41:30

Highest Channel / 5MHz / 64QAM



Date: 27.AUG.2020 03:31:44

Highest Channel / 10MHz / 64QAM

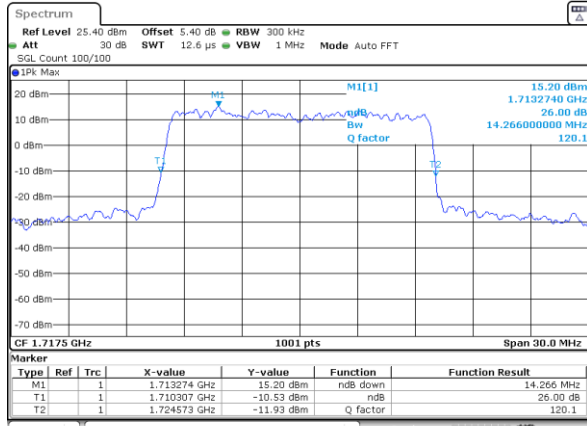


Date: 27.AUG.2020 03:42:47



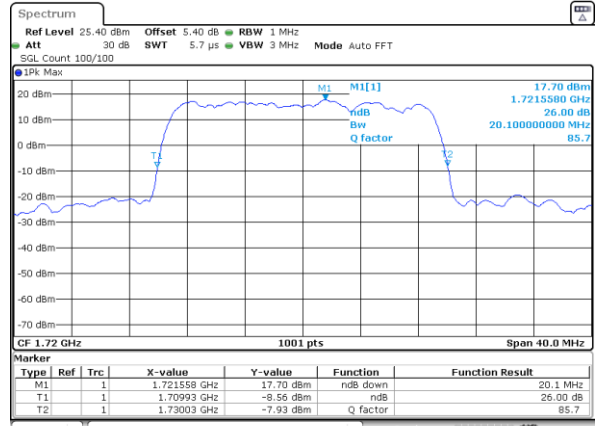
LTE Band 4

Lowest Channel / 15MHz / 64QAM



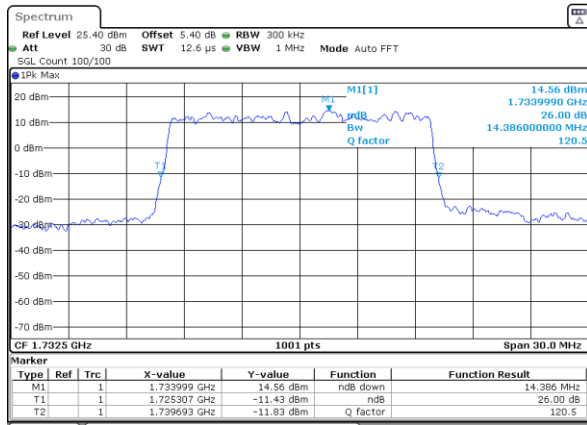
Date: 27.AUG.2020 04:05:14

Lowest Channel / 20MHz / 64QAM



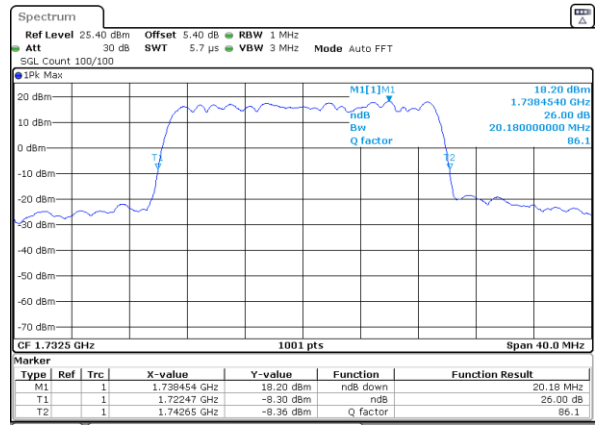
Date: 27.AUG.2020 04:15:15

Middle Channel / 15MHz / 64QAM



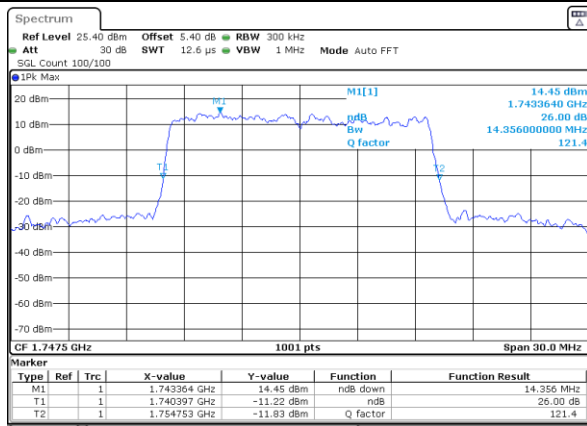
Date: 27.AUG.2020 04:09:27

Middle Channel / 20MHz / 64QAM



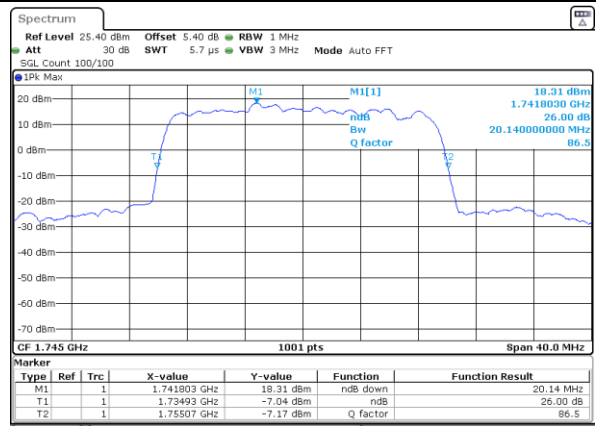
Date: 27.AUG.2020 04:18:47

Highest Channel / 15MHz / 64QAM



Date: 27.AUG.2020 04:10:44

Highest Channel / 20MHz / 64QAM



Date: 27.AUG.2020 04:20:04

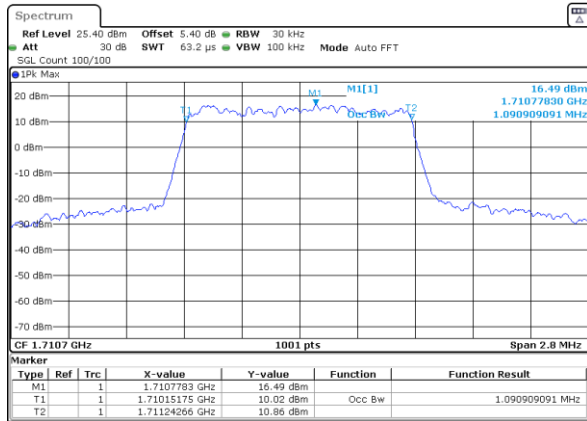
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.52	4.47	9.07	9.03	13.40	13.46	18.18	18.26
Middle CH	1.09	1.09	2.71	2.71	4.50	4.49	9.07	8.99	13.43	13.43	18.50	18.38
Highest CH	1.09	1.09	2.70	2.73	4.49	4.49	9.05	8.99	13.49	13.40	18.22	18.42
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.51	-	9.05	-	13.40	-	18.38	-
Middle CH	1.09	-	2.71	-	4.50	-	9.05	-	13.40	-	18.34	-
Highest CH	1.09	-	2.72	-	4.51	-	9.03	-	13.43	-	18.38	-



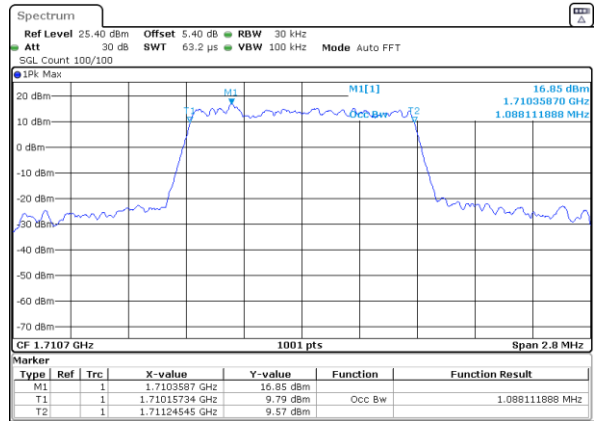
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



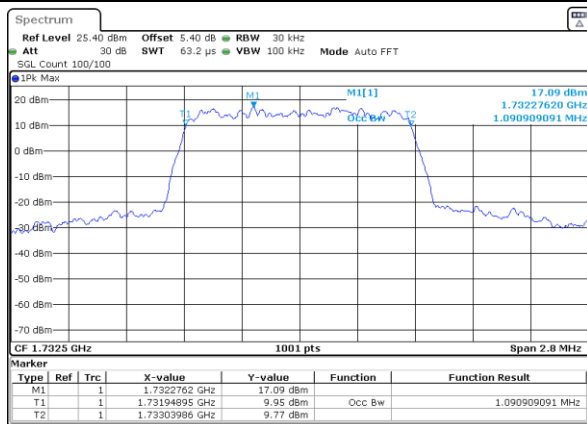
Date: 27.AUG.2020 00:45:11

Lowest Channel / 1.4MHz / 16QAM



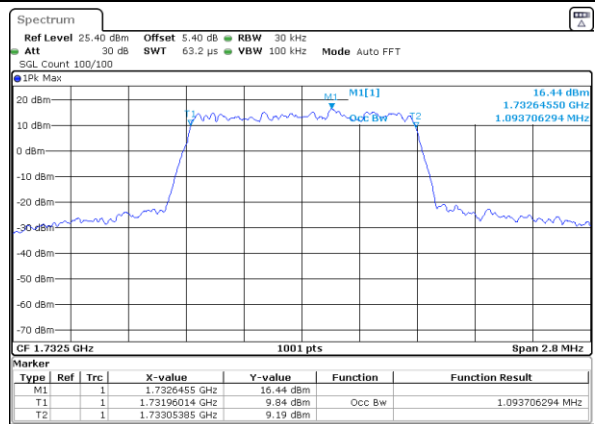
Date: 27.AUG.2020 00:45:12

Middle Channel / 1.4MHz / QPSK



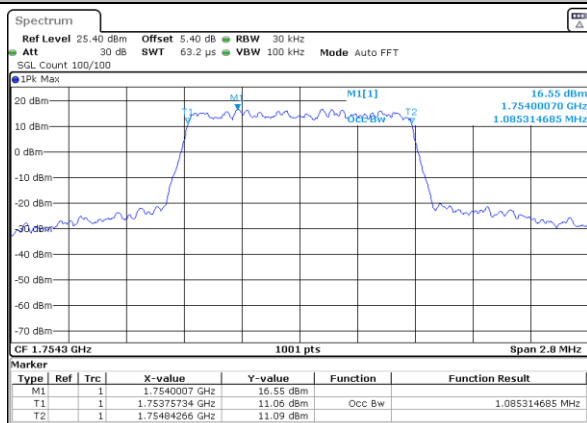
Date: 27.AUG.2020 00:52:18

Middle Channel / 1.4MHz / 16QAM



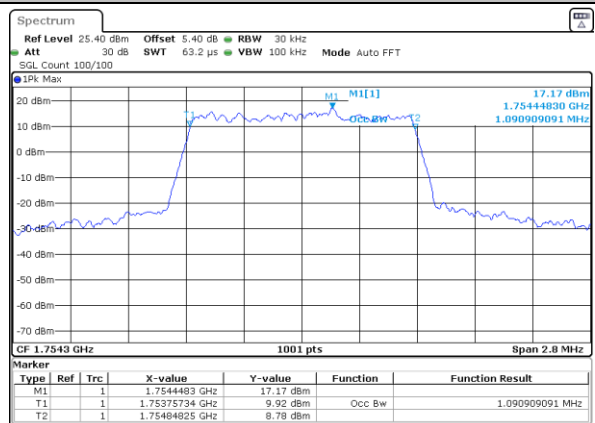
Date: 27.AUG.2020 00:52:28

Highest Channel / 1.4MHz / QPSK



Date: 27.AUG.2020 00:54:51

Highest Channel / 1.4MHz / 16QAM

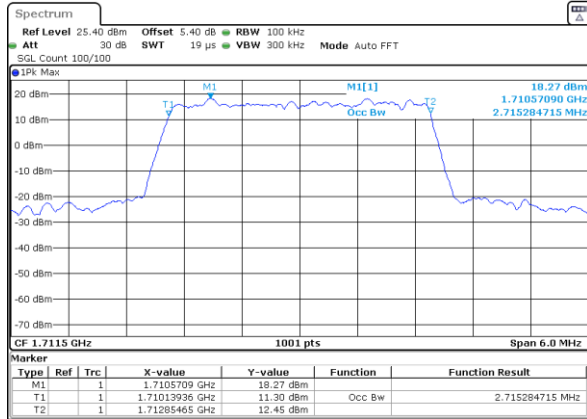


Date: 27.AUG.2020 00:55:01

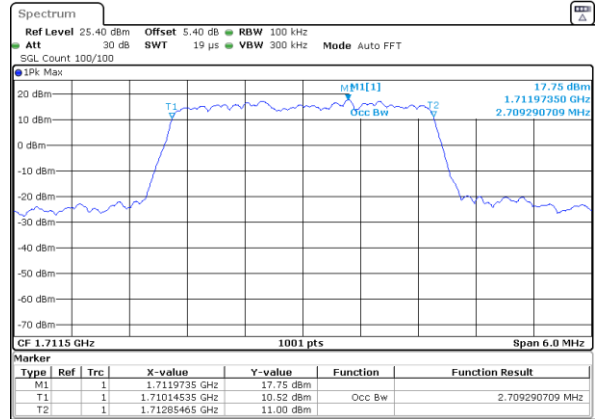


LTE Band 4

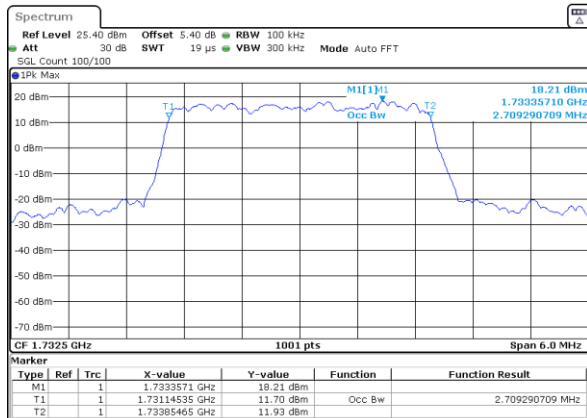
Lowest Channel / 3MHz / QPSK



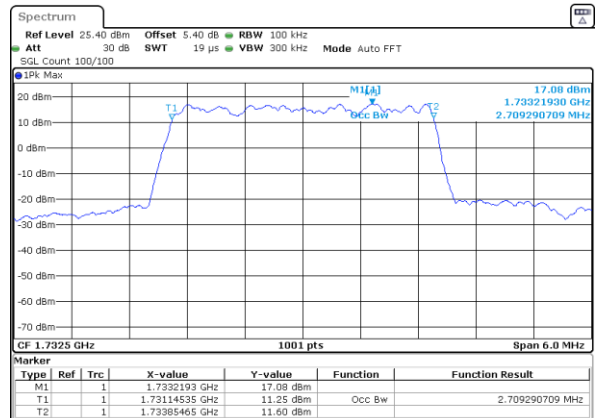
Lowest Channel / 3MHz / 16QAM



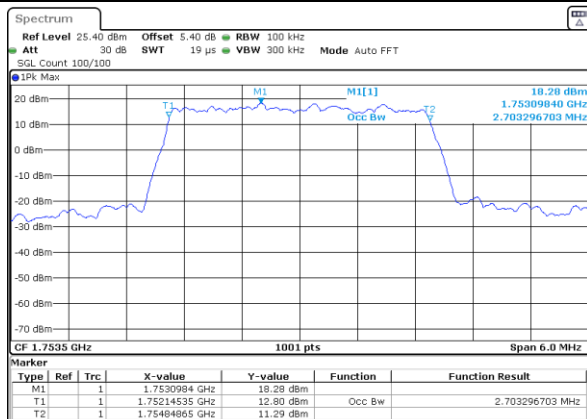
Middle Channel / 3MHz / QPSK



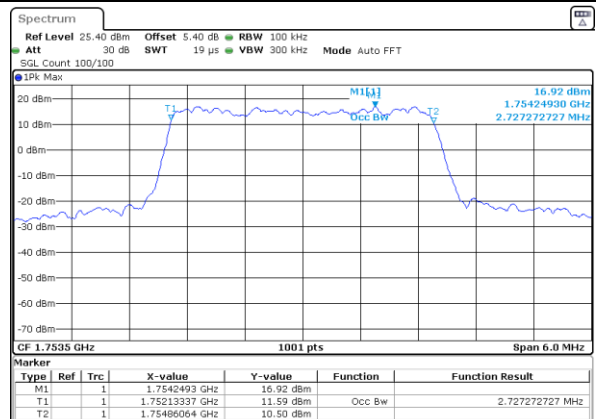
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



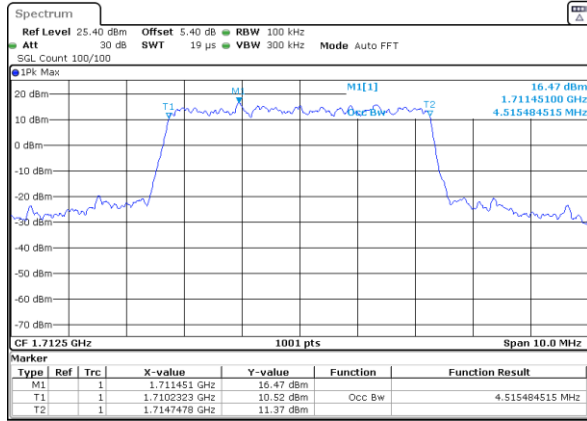
Highest Channel / 3MHz / 16QAM



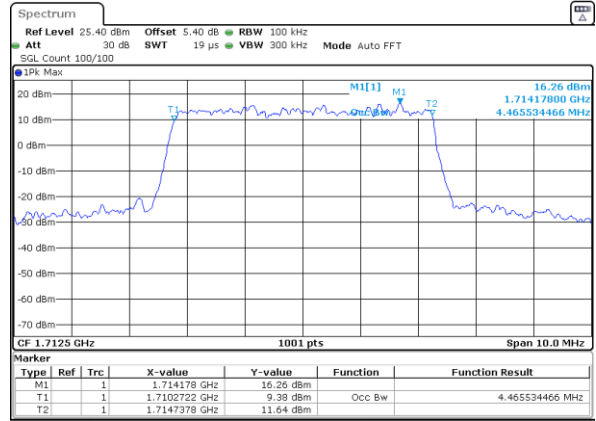


LTE Band 4

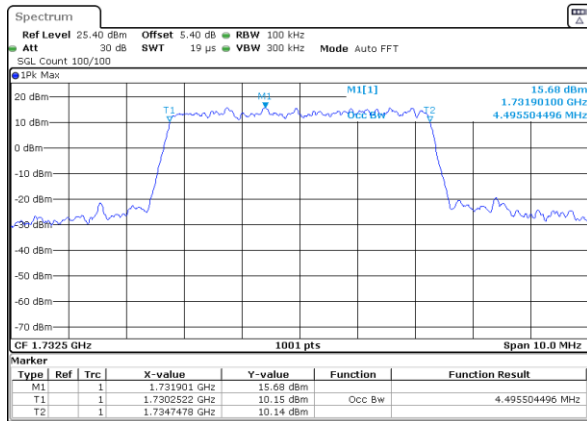
Lowest Channel / 5MHz / QPSK



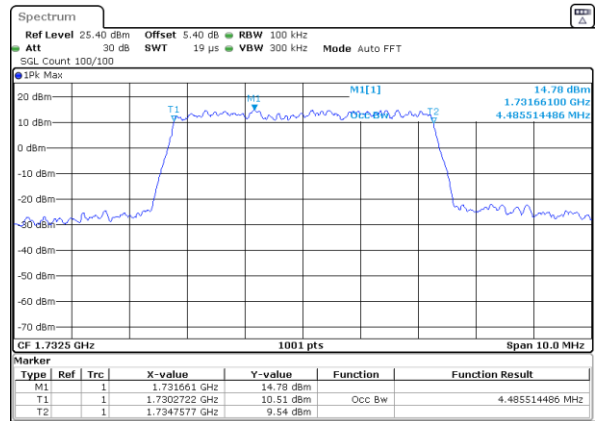
Lowest Channel / 5MHz / 16QAM



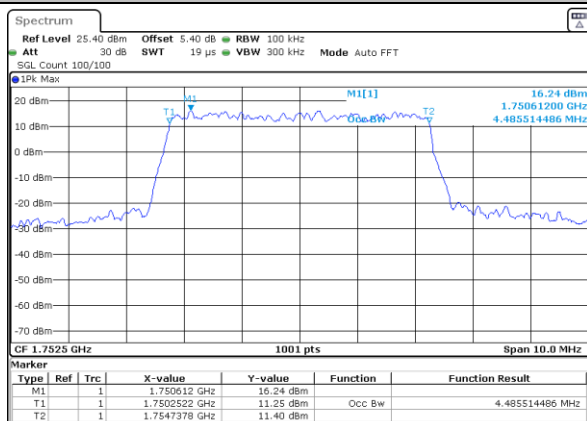
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

