



FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : WCDMA/LTE CPE
BRAND NAME : ZTE
MODEL NAME : MF279T
FCC ID : SRQ-MF279T
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F), 27(H)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Oct. 18, 2017 and completely tested on Oct. 31, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI/TIA-603-E and the testing has shown the tested sample to be in 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.

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

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TABLE OF CONTENTS

REVISION HISTORY..... 3
SUMMARY OF TEST RESULT 4
1 GENERAL DESCRIPTION 6
1.1 Applicant 6
1.2 Manufacturer 6
1.3 Product Feature of Equipment Under Test..... 6
1.4 Product Specification of Equipment Under Test..... 7
1.5 Modification of EUT 7
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator 8
1.7 Testing Location 10
1.8 Applicable Standards..... 10
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 11
2.1 Test Mode 11
2.2 Connection Diagram of Test System..... 15
2.3 Support Unit used in test configuration and system 15
2.4 Measurement Results Explanation Example..... 15
2.5 Frequency List of Low/Middle/High Channels 16
3 CONDUCTED TEST ITEMS 19
3.1 Measuring Instruments 19
3.2 Test Setup 19
3.3 Test Result of Conducted Test 19
3.4 Conducted Output Power and ERP/EIRP 20
3.5 Peak-to-Average Ratio 21
3.6 Occupied Bandwidth..... 22
3.7 Conducted Band Edge 23
3.8 Conducted Spurious Emission 25
3.9 Frequency Stability 26
4 RADIATED TEST ITEMS 27
4.1 Measuring Instruments 27
4.2 Test Setup 27
4.3 Test Result of Radiated Test 27
4.4 Radiated Spurious Emission 28
5 LIST OF MEASURING EQUIPMENT 30
6 UNCERTAINTY OF EVALUATION 31
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG7O1802B	Rev. 01	Initial issue of report	Nov. 22, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt	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 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 26)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 26)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 26)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 18.88 dB at 1560.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	$< 55+10\log_{10}(P[\text{Watts}])$		



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	WCDMA/LTE CPE
Brand Name	ZTE
Model Name	MF279T
FCC ID	SRQ-MF279T
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40/VHT80
IMEI Code	Conducted: 990008960001894 for LTE B2/B4/B5/B7/B13 990008960002348 for LTE B12/B26 Radiation: 990008960002256 for LTE B2/B4/B7/B13 990008960001910 for LTE B12/B26
HW Version	MF279THW1.0
SW Version	MF279TV1.2
EUT Stage	Identical Prototype



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.89 dBm LTE Band 4 : 23.77 dBm LTE Band 5 : 22.25 dBm LTE Band 7 : 23.53 dBm LTE Band 12 : 22.36 dBm LTE Band 13 : 22.17 dBm LTE Band 26 : 22.39 dBm
Antenna Gain	LTE Band 2 : 1.50 dBi LTE Band 4 : 1.50 dBi LTE Band 5 : -0.50 dBi LTE Band 7 : 2.00 dBi LTE Band 12 : -0.50 dBi LTE Band 13 : 0.10 dBi LTE Band 26 : -0.50 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 2		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	1850.7 ~ 1909.3	1M10G7D	-	0.2673	1M09W7D	-	0.2270
3	1851.5 ~ 1908.5	2M75G7D	-	0.2667	2M73W7D	-	0.2301
5	1852.5 ~ 1907.5	4M50G7D	-	0.2649	4M49W7D	-	0.2328
10	1855.0 ~ 1905.0	9M11G7D	0.0015	0.2679	8M99W7D	-	0.2291
15	1857.5 ~ 1902.5	13M5G7D	-	0.2673	13M5W7D	-	0.2328
20	1860.0 ~ 1900.0	18M5G7D	-	0.2748	18M4W7D	-	0.2333
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	-	0.3273	1M10W7D	-	0.2704
3	1711.5 ~ 1753.5	2M72G7D	-	0.3357	2M72W7D	-	0.2773
5	1712.5 ~ 1752.5	4M51G7D	-	0.3342	4M49W7D	-	0.2754
10	1715.0 ~ 1750.0	9M03G7D	0.0025	0.3304	9M05W7D	-	0.2767
15	1717.5 ~ 1747.5	13M5G7D	-	0.3266	13M5W7D	-	0.2754
20	1720.0 ~ 1745.0	18M3G7D	-	0.3365	18M4W7D	-	0.2780
LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.0897	1M10W7D	-	0.0748
3	825.5 ~ 847.5	2M72G7D	-	0.0912	2M72W7D	-	0.0767
5	826.5 ~ 846.5	4M50G7D	-	0.0908	4M50W7D	-	0.0767
10	829.0 ~ 844.0	9M05G7D	0.0045	0.0889	8M99W7D	-	0.0752
LTE Band 7		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)
5	2502.5 ~ 2567.5	4M50G7D	-	0.3436	4M50W7D	-	0.2864
10	2505.0 ~ 2565.0	9M05G7D	0.0023	0.3508	9M01W7D	-	0.2924
15	2507.5 ~ 2562.5	13M5G7D	-	0.3491	13M5W7D	-	0.2958
20	2510.0 ~ 2560.0	18M5G7D	-	0.3573	18M3W7D	-	0.2999



LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09G7D	-	0.0920	1M09W7D	-	0.0767
3	700.5 ~ 714.5	2M74G7D	-	0.0935	2M73W7D	-	0.0767
5	701.5 ~ 713.5	4M49G7D	-	0.0923	4M50W7D	-	0.0767
10	704.0 ~ 711.0	9M07G7D	0.0055	0.0918	9M03W7D	-	0.0767
LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M51G7D	-	0.1026	4M49W7D	-	0.0869
10	782.0	9M05G7D	0.0102	0.1028	8M99W7D	-	0.0869
LTE Band 26		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.0925	1M10W7D	-	0.0773
3	825.5 ~ 847.5	2M74G7D	-	0.0933	2M73W7D	-	0.0793
5	826.5 ~ 846.5	4M49G7D	-	0.0929	4M49W7D	-	0.0783
10	829.0 ~ 844.0	9M03G7D	0.0117	0.0925	9M03W7D	-	0.0785
15	831.5 ~ 841.5	13M5G7D	-	0.0942	13M5W7D	-	0.0789
CH26765	821.5	13M5G7D	-	0.0948	13M3W7D	-	0.0793



1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.		FCC Test Firm Registration No.
	TH01-KS	03CH03-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F), 27(H)
- ANSI/TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03
- 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 v03 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	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v		-	-	v	v	v	v	v	v	v	v
	13	-	-		v	-	-	v	v	v	v	v		v	
26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	2						v	v	v	v		v	v	v	v
	4						v	v	v	v		v	v	v	v
	5				-	-	-	v	v	v		v	v	v	v
	7	-	-				v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v		v	v	v	v
	26					v	-	v	v	v		v	v	v	v



Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v			v	v	v	v
	13	-	-	v		-	-	v	v			v	v	v	v
	13	-	-		v	-	-	v	v			v		v	
	26	v	v	v	v	v	-	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v	-	-	v	v	v		v	-		-
	7	-	-	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v		v	v		v
	13	-	-	v		-	-	v	v	v		v	v		v
	13	-	-		v	-	-	v	v	v		v		v	
	26	v	v	v	v	v	-	v	v	v		v	v		v

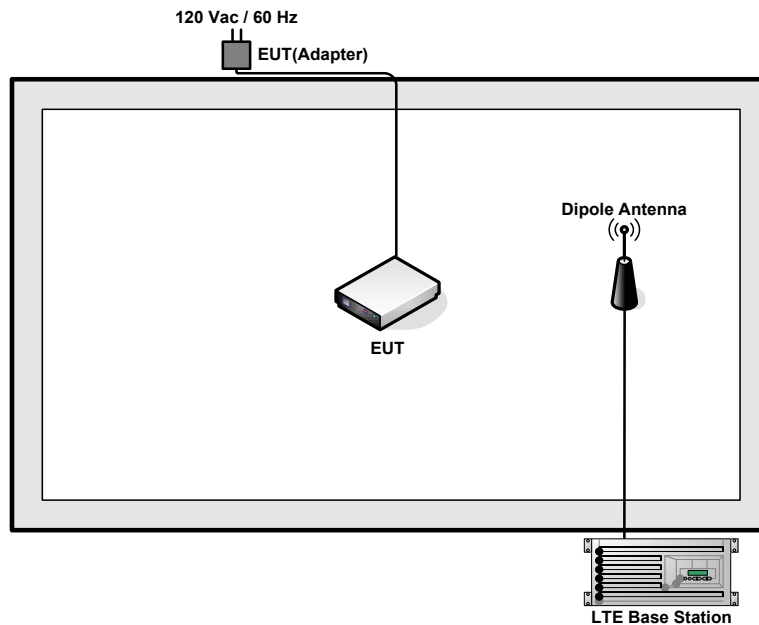


Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			-	-	-
	7	-	-	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v			v	v	v
	13	-	-		v	-	-	v	v	v				v	
	26	v	v	v	v	v	-	v	v	v			v	v	v
Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v	-	-	v				v		v	
	7	-	-		v			v				v		v	
	12				v	-	-	v				v		v	
	13	-	-		v	-	-	v				v		v	
	26				v		-	v				v		v	



Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
E.R.P./ E.I.R.P.	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	v	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v			v	v	v
	13	-	-		v	-	-	v	v	v				v	
	26	v	v	v	v	v	-	v	v	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v		v			-	-	-
	7	-	-	v	v	v	v	v		v			v	v	v
	12	v	v	v	v	-	-	v		v			v	v	v
	13	-	-	v		-	-	v		v			v	v	v
	13	-	-		v	-	-	v		v				v	
	26	v	v	v	v	v	-	v		v			v	v	v
Note	<p>1. The mark “v “ means that this configuration is chosen for testing</p> <p>2. The mark “-“ means that this bandwidth is not supported.</p> <p>3. LTE Band 5 test was covered by Band 26.</p> <p>4. 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.</p>														

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	GW	GPS-3030D	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 4.3 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 4.3 (dB)



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

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



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5



LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

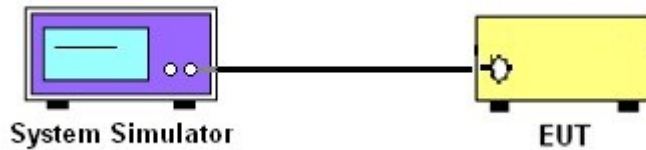
3 Conducted Test Items

3.1 Measuring Instruments

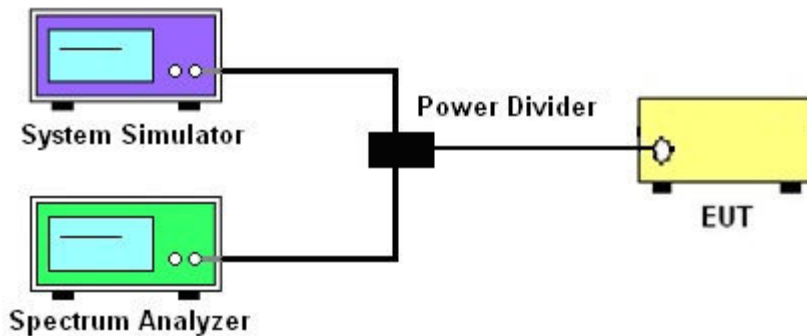
See list of measuring instruments of this test report.

3.2 Test Setup

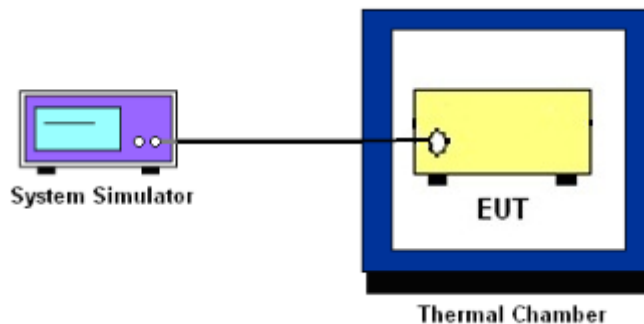
3.2.1 Conducted Output Power



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 ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/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 ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7.

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 transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. 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 FCC KDB 971168 v03 Section 5.7.1.
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 FCC KDB 971168 v03 Section 4.1 and 4.2.
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

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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.



27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ 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 $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v03 Section 6.0.
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.
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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB) = -13dBm.

9. For LTE Band 7, the other 40 dB, and 55 dB have additionally applied same calculation above.



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.

For Band 7:

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 $55 + 10 \log (P)$ 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 FCC KDB 971168 v03 Section 6.0.
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.
11. For Band 7
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ 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 FCC KDB 971168 v03 Section 9.0.
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 FCC KDB 971168 v03 Section 9.0.
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 measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

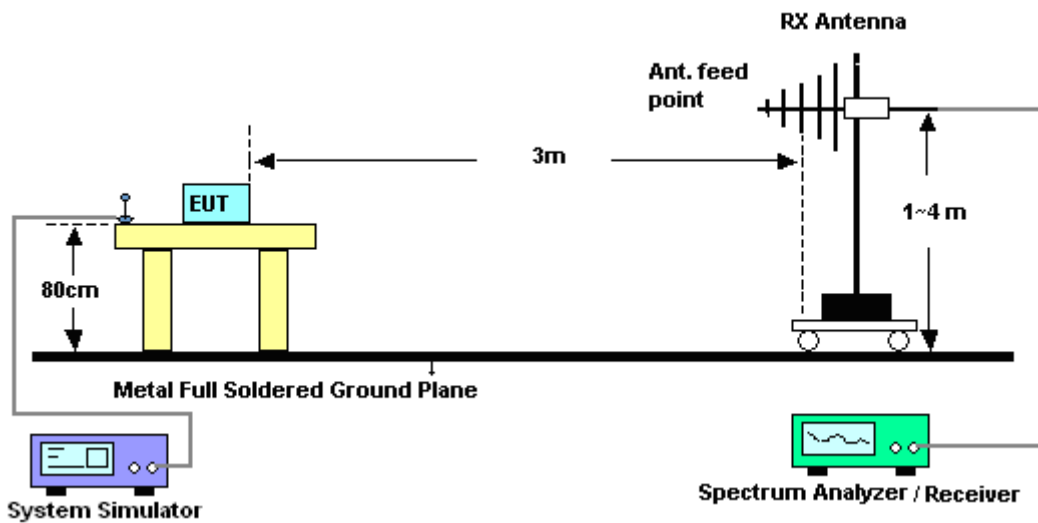
4 Radiated Test Items

4.1 Measuring Instruments

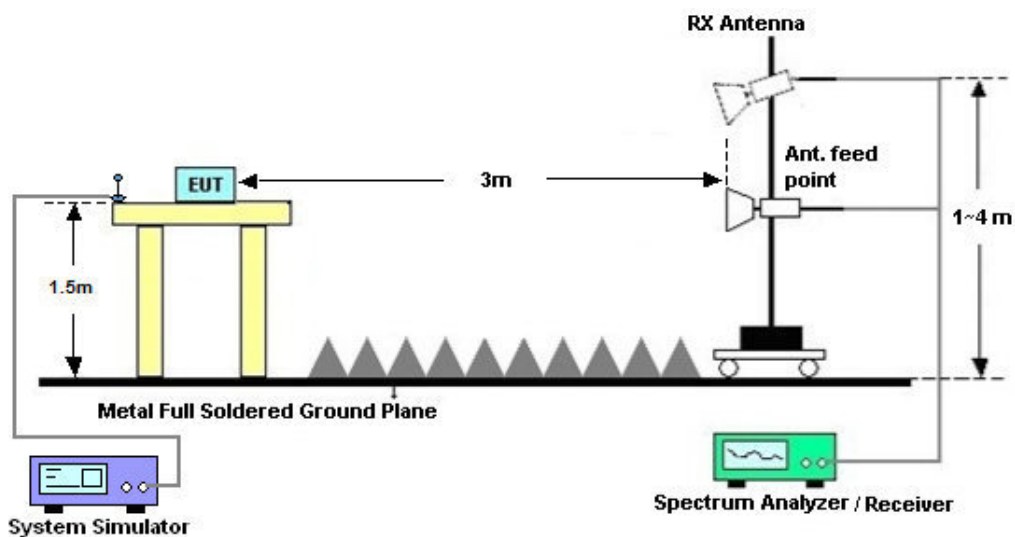
See list of measuring instruments of this test report.

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/TIA-603-E. 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.

For Band 7

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 $55 + 10 \log (P)$ dB.

For LTE Band 12,13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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



4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v03 Section 5.8 and and ANSI/TIA-603-E Section 2.2.12.
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 $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$
13. For Band 7:
The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
 $ERP \text{ (dBm)} = EIRP - 2.15$



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	Aug. 08, 2017	Oct. 20, 2017~ Oct. 23, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Radio communication analyzer	Anritsu	MT8820C	6201300652	2G/3G/LTE_ full band	Aug. 08, 2017	Oct. 20, 2017~ Oct. 23, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Oct. 20, 2017~ Oct. 23, 2017	Oct. 11, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Oct. 30, 2017~ Oct. 31, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Oct. 30, 2017~ Oct. 31, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Oct. 30, 2017~ Oct. 31, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Oct. 30, 2017~ Oct. 31, 2017	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 18, 2017	Oct. 30, 2017~ Oct. 31, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 12, 2017	Oct. 30, 2017~ Oct. 31, 2017	Oct. 11, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	2025788	1GHz~18GHz	Apr. 18, 2017	Oct. 30, 2017~ Oct. 31, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 30, 2017~ Oct. 31, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 30, 2017~ Oct. 31, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 30, 2017~ Oct. 31, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8 dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.62	22.73	22.89
20	1	49		22.27	22.35	22.60
20	1	99		22.38	22.54	22.69
20	50	0		21.42	21.52	21.73
20	50	24		21.38	21.48	21.70
20	50	50		21.37	21.46	21.71
20	100	0		21.42	21.47	21.72
20	1	0	16-QAM	21.95	22.02	22.18
20	1	49		21.60	21.66	21.99
20	1	99		21.72	21.84	22.04
20	50	0		20.47	20.55	20.74
20	50	24		20.40	20.50	20.72
20	50	50		20.37	20.46	20.71
20	100	0		20.40	20.48	20.72
15	1	0	QPSK	22.34	22.52	22.77
15	1	37		22.13	22.38	22.61
15	1	74		22.21	22.40	22.75
15	36	0		21.29	21.48	21.75
15	36	20		21.25	21.47	21.72
15	36	39		21.25	21.44	21.72
15	75	0		21.27	21.48	21.74
15	1	0	16-QAM	21.65	21.82	22.17
15	1	37		21.43	21.70	21.93
15	1	74		21.50	21.72	22.02
15	36	0		20.28	20.51	20.76
15	36	20		20.25	20.47	20.72
15	36	39		20.24	20.45	20.71
15	75	0		20.29	20.47	20.71



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.48	22.65	22.78
10	1	25		22.17	22.39	22.70
10	1	49		22.40	22.60	22.71
10	25	0		21.26	21.44	21.72
10	25	12		21.22	21.45	21.75
10	25	25		21.22	21.43	21.75
10	50	0		21.23	21.44	21.77
10	1	0	16-QAM	21.81	22.01	22.10
10	1	25		21.47	21.71	22.01
10	1	49		21.67	21.90	22.06
10	25	0		20.27	20.49	20.72
10	25	12		20.29	20.47	20.72
10	25	25		20.23	20.43	20.74
10	50	0		20.28	20.47	20.73
5	1	0	QPSK	22.23	22.45	22.73
5	1	12		22.18	22.42	22.72
5	1	24		22.20	22.45	22.73
5	12	0		21.23	21.46	21.73
5	12	7		21.21	21.47	21.74
5	12	13		21.23	21.45	21.71
5	25	0		21.13	21.36	21.76
5	1	0	16-QAM	21.45	21.69	22.08
5	1	12		21.46	21.65	22.08
5	1	24		21.45	21.71	22.17
5	12	0		20.26	20.48	20.76
5	12	7		20.25	20.47	20.75
5	12	13		20.20	20.44	20.75
5	25	0		20.24	20.45	20.74



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.15	22.40	22.71
3	1	8		22.23	22.47	22.76
3	1	14		22.15	22.39	22.69
3	8	0		21.19	21.43	21.74
3	8	4		21.21	21.45	21.77
3	8	7		21.19	21.41	21.77
3	15	0		21.18	21.44	21.74
3	1	0	16-QAM	21.53	21.69	22.08
3	1	8		21.62	21.82	22.12
3	1	14		21.46	21.68	22.07
3	8	0		20.29	20.49	20.76
3	8	4		20.30	20.51	20.81
3	8	7		20.24	20.51	20.78
3	15	0		20.22	20.46	20.73
1.4	1	0	QPSK	22.12	22.38	22.65
1.4	1	3		22.21	22.40	22.77
1.4	1	5		22.14	22.34	22.63
1.4	3	0		22.17	22.40	22.70
1.4	3	1		22.21	22.42	22.75
1.4	3	3		22.22	22.43	22.77
1.4	6	0		21.15	21.38	21.67
1.4	1	0	16-QAM	21.46	21.63	22.01
1.4	1	3		21.53	21.72	22.06
1.4	1	5		21.43	21.62	21.99
1.4	3	0		21.17	21.41	21.74
1.4	3	1		21.21	21.48	21.84
1.4	3	3		21.25	21.46	21.78
1.4	6	0		20.22	20.44	20.77



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.77	23.53	23.49
20	1	49		23.46	23.29	22.94
20	1	99		23.31	22.95	22.54
20	50	0		22.63	22.50	22.32
20	50	24		22.57	22.41	22.04
20	50	50		22.44	22.20	21.86
20	100	0		22.60	22.46	22.04
20	1	0	16-QAM	22.94	22.75	22.82
20	1	49		22.70	22.52	22.29
20	1	99		22.55	22.19	21.79
20	50	0		21.71	21.49	21.36
20	50	24		21.63	21.45	21.07
20	50	50		21.48	21.20	20.87
20	100	0		21.60	21.46	21.03
15	1	0	QPSK	23.64	23.47	23.24
15	1	37		23.45	23.27	22.81
15	1	74		23.33	23.10	22.58
15	36	0		22.61	22.49	22.04
15	36	20		22.58	22.40	21.92
15	36	39		22.42	22.30	21.74
15	75	0		22.57	22.41	21.92
15	1	0	16-QAM	22.90	22.70	22.49
15	1	37		22.72	22.55	22.07
15	1	74		22.58	22.39	21.80
15	36	0		21.65	21.49	21.10
15	36	20		21.59	21.39	20.92
15	36	39		21.46	21.28	20.77
15	75	0		21.60	21.41	20.90



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.69	23.39	23.05
10	1	25		23.57	23.29	22.70
10	1	49		23.55	23.06	22.56
10	25	0		22.68	22.43	21.91
10	25	12		22.64	22.38	21.77
10	25	25		22.62	22.28	21.75
10	50	0		22.65	22.37	21.77
10	1	0	16-QAM	22.92	22.66	22.32
10	1	25		22.84	22.56	21.96
10	1	49		22.77	22.36	21.83
10	25	0		21.71	21.43	20.93
10	25	12		21.68	21.38	20.80
10	25	25		21.65	21.29	20.75
10	50	0		21.68	21.42	20.79
5	1	0	QPSK	23.74	23.34	22.79
5	1	12		23.67	23.27	22.71
5	1	24		23.58	23.20	22.60
5	12	0		22.64	22.36	21.76
5	12	7		22.63	22.37	21.79
5	12	13		22.61	22.26	21.64
5	25	0		22.62	22.38	21.79
5	1	0	16-QAM	22.90	22.58	22.08
5	1	12		22.86	22.53	22.02
5	1	24		22.84	22.47	21.90
5	12	0		21.67	21.39	20.87
5	12	7		21.67	21.37	20.87
5	12	13		21.66	21.26	20.77
5	25	0		21.64	21.39	20.87



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.68	23.30	22.74
3	1	8		23.76	23.34	22.68
3	1	14		23.63	23.18	22.57
3	8	0		22.74	22.36	21.74
3	8	4		22.66	22.36	21.67
3	8	7		22.60	22.26	21.65
3	15	0		22.61	22.32	21.68
3	1	0	16-QAM	22.83	22.51	21.99
3	1	8		22.93	22.67	22.04
3	1	14		22.80	22.46	21.87
3	8	0		21.67	21.39	20.90
3	8	4		21.69	21.45	20.84
3	8	7		21.68	21.32	20.81
3	15	0		21.61	21.36	20.76
1.4	1	0	QPSK	23.59	23.22	22.53
1.4	1	3		23.65	23.26	22.58
1.4	1	5		23.55	23.13	22.50
1.4	3	0		23.65	23.27	22.55
1.4	3	1		23.58	23.32	22.62
1.4	3	3		23.59	23.31	22.72
1.4	6	0		22.53	22.27	21.69
1.4	1	0	16-QAM	22.73	22.49	21.89
1.4	1	3		22.82	22.59	21.91
1.4	1	5		22.74	22.39	21.83
1.4	3	0		22.54	22.29	21.68
1.4	3	1		22.58	22.32	21.73
1.4	3	3		22.58	22.33	21.74
1.4	6	0		21.61	21.35	20.74



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.10	21.91	22.10
10	1	25		21.94	21.96	22.14
10	1	49		21.98	21.97	22.03
10	25	0		21.03	21.00	21.21
10	25	12		21.01	21.01	21.19
10	25	25		20.93	21.08	21.14
10	50	0		21.00	20.98	21.17
10	1	0	16-QAM	21.41	21.21	21.38
10	1	25		21.24	21.26	21.41
10	1	49		21.30	21.29	21.34
10	25	0		20.02	20.04	20.20
10	25	12		20.00	20.03	20.20
10	25	25		19.97	20.05	20.16
10	50	0		19.99	20.01	20.19
5	1	0	QPSK	22.19	21.37	21.00
5	1	12		22.04	21.98	22.23
5	1	24		22.04	21.95	22.17
5	12	0		21.21	21.50	21.49
5	12	7		21.21	20.97	21.25
5	12	13		21.06	21.01	21.27
5	25	0		21.10	20.95	21.21
5	1	0	16-QAM	21.45	20.97	21.22
5	1	12		21.34	21.25	21.50
5	1	24		21.28	21.20	21.49
5	12	0		20.26	20.31	20.50
5	12	7		20.24	20.03	20.27
5	12	13		20.08	20.00	20.24
5	25	0		20.10	19.99	20.22



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.14	21.94	22.22
3	1	8		22.24	22.03	22.25
3	1	14		22.02	21.98	22.14
3	8	0		21.17	20.97	21.20
3	8	4		21.24	20.98	21.24
3	8	7		21.15	20.91	21.22
3	15	0		21.18	20.96	21.21
3	1	0	16-QAM	21.45	21.26	21.41
3	1	8		21.40	21.35	21.50
3	1	14		21.32	21.34	21.42
3	8	0		20.23	20.03	20.25
3	8	4		20.29	20.04	20.29
3	8	7		20.22	19.98	20.26
3	15	0		20.22	19.96	20.22
1.4	1	0	QPSK	22.08	21.88	22.07
1.4	1	3		22.14	21.92	22.12
1.4	1	5		22.06	21.84	22.04
1.4	3	0		22.13	21.90	22.11
1.4	3	1		22.16	21.96	22.15
1.4	3	3		22.15	21.96	22.18
1.4	6	0		21.08	20.88	21.11
1.4	1	0	16-QAM	21.33	21.17	21.31
1.4	1	3		21.39	21.21	21.38
1.4	1	5		21.31	21.11	21.29
1.4	3	0		21.17	20.90	21.18
1.4	3	1		21.20	20.94	21.18
1.4	3	3		21.20	20.96	21.21
1.4	6	0		20.20	19.94	20.16



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.45	23.53	23.40
20	1	49		23.26	23.35	23.11
20	1	99		23.30	23.31	23.08
20	50	0		22.39	22.53	22.29
20	50	24		22.39	22.42	22.21
20	50	50		22.30	22.34	22.17
20	100	0		22.40	22.45	22.21
20	1	0	16-QAM	22.64	22.77	22.62
20	1	49		22.48	22.52	22.36
20	1	99		22.58	22.47	22.23
20	50	0		21.39	21.56	21.30
20	50	24		21.43	21.48	21.22
20	50	50		21.31	21.34	21.22
20	100	0		21.38	21.43	21.20
15	1	0	QPSK	23.23	23.43	23.27
15	1	37		23.15	23.26	23.17
15	1	74		23.11	23.29	23.04
15	36	0		22.25	22.48	22.22
15	36	20		22.31	22.43	22.28
15	36	39		22.22	22.35	22.17
15	75	0		22.27	22.40	22.21
15	1	0	16-QAM	22.45	22.71	22.55
15	1	37		22.38	22.53	22.43
15	1	74		22.35	22.54	22.28
15	36	0		21.25	21.52	21.22
15	36	20		21.29	21.48	21.25
15	36	39		21.23	21.35	21.20
15	75	0		21.41	21.41	21.26



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.33	23.45	23.26
10	1	25		23.23	23.34	23.18
10	1	49		23.24	23.25	23.03
10	25	0		22.30	22.42	22.21
10	25	12		22.28	22.39	22.22
10	25	25		22.35	22.35	22.12
10	50	0		22.29	22.38	22.18
10	1	0	16-QAM	22.53	22.66	22.51
10	1	25		22.44	22.52	22.35
10	1	49		22.48	22.48	22.27
10	25	0		21.31	21.44	21.24
10	25	12		21.30	21.46	21.19
10	25	25		21.36	21.34	21.16
10	50	0		21.30	21.41	21.21
5	1	0	QPSK	23.15	23.36	23.15
5	1	12		23.10	23.33	23.09
5	1	24		23.11	23.28	23.02
5	12	0		22.21	22.42	22.18
5	12	7		22.22	22.41	22.19
5	12	13		22.17	22.37	22.14
5	25	0		22.17	22.37	22.13
5	1	0	16-QAM	22.35	22.57	22.37
5	1	12		22.35	22.55	22.27
5	1	24		22.24	22.45	22.25
5	12	0		21.21	21.42	21.18
5	12	7		21.25	21.45	21.20
5	12	13		21.30	21.38	21.15
5	25	0		21.34	21.40	21.16



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.12	22.20	22.18
10	1	25		22.21	22.28	22.15
10	1	49		22.27	22.25	22.21
10	25	0		21.29	21.25	21.20
10	25	12		21.30	21.32	21.25
10	25	25		21.37	21.38	21.28
10	50	0		21.36	21.37	21.22
10	1	0	16-QAM	21.41	21.47	21.44
10	1	25		21.48	21.50	21.39
10	1	49		21.42	21.49	21.45
10	25	0		20.28	20.26	20.23
10	25	12		20.32	20.35	20.27
10	25	25		20.37	20.32	20.30
10	50	0		20.37	20.33	20.22
5	1	0	QPSK	22.17	22.16	22.22
5	1	12		22.21	22.26	22.29
5	1	24		22.23	22.26	22.30
5	12	0		21.17	21.33	21.35
5	12	7		21.34	21.32	21.41
5	12	13		21.29	21.33	21.34
5	25	0		21.27	21.31	21.37
5	1	0	16-QAM	21.40	21.42	21.46
5	1	12		21.46	21.44	21.41
5	1	24		21.48	21.50	21.39
5	12	0		20.21	20.33	20.38
5	12	7		20.31	20.35	20.36
5	12	13		20.27	20.34	20.33
5	25	0		20.28	20.31	20.37



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.12	22.28	22.30
3	1	8		22.19	22.36	22.33
3	1	14		22.21	22.26	22.30
3	8	0		21.17	21.31	21.31
3	8	4		21.17	21.31	21.33
3	8	7		21.14	21.29	21.35
3	15	0		21.15	21.27	21.31
3	1	0	16-QAM	21.32	21.49	21.49
3	1	8		21.45	21.50	21.49
3	1	14		21.44	21.48	21.45
3	8	0		20.21	20.37	20.39
3	8	4		20.24	20.39	20.40
3	8	7		20.24	20.37	20.39
3	15	0		20.19	20.30	20.34
1.4	1	0	QPSK	22.08	22.16	22.18
1.4	1	3		22.12	22.24	22.24
1.4	1	5		22.06	22.17	22.17
1.4	3	0		22.13	22.24	22.23
1.4	3	1		22.18	22.27	22.27
1.4	3	3		22.16	22.28	22.29
1.4	6	0		21.11	21.20	21.24
1.4	1	0	16-QAM	21.30	21.42	21.40
1.4	1	3		21.38	21.48	21.50
1.4	1	5		21.27	21.43	21.39
1.4	3	0		21.12	21.25	21.24
1.4	3	1		21.17	21.29	21.28
1.4	3	3		21.16	21.27	21.30
1.4	6	0		20.16	20.25	20.33



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.17	
10	1	25			22.08	
10	1	49			21.86	
10	25	0			21.16	
10	25	12			21.17	
10	25	25			21.10	
10	50	0			21.12	
10	1	0	16-QAM		21.44	
10	1	25			21.34	
10	1	49			21.13	
10	25	0			20.15	
10	25	12			20.17	
10	25	25			20.10	
10	50	0			20.13	
5	1	0	QPSK	22.16	22.12	22.09
5	1	12		22.08	22.07	21.95
5	1	24		22.07	22.04	21.91
5	12	0		21.23	21.14	21.12
5	12	7		21.19	21.16	21.01
5	12	13		21.15	21.14	20.97
5	25	0		21.14	21.12	20.97
5	1	0	16-QAM	21.42	21.37	21.38
5	1	12		21.44	21.34	21.26
5	1	24		21.36	21.33	21.15
5	12	0		20.25	20.14	20.13
5	12	7		20.24	20.12	20.03
5	12	13		20.15	20.13	19.99
5	25	0		20.20	20.12	19.99



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.39	22.38	22.33
15	1	37		22.25	22.10	22.32
15	1	74		22.17	22.08	22.26
15	36	0		21.31	21.16	21.31
15	36	20		21.27	21.20	21.39
15	36	39		21.43	21.39	21.42
15	75	0		21.38	21.14	21.37
15	1	0	16-QAM	21.61	21.44	21.60
15	1	37		21.59	21.36	21.62
15	1	74		21.46	21.39	21.54
15	36	0		20.34	20.19	20.33
15	36	20		20.32	20.17	20.38
15	36	39		20.34	20.20	20.41
15	75	0		20.25	20.16	20.37
10	1	0	QPSK	22.31	22.16	22.27
10	1	25		22.22	22.08	22.28
10	1	49		22.24	22.09	22.18
10	25	0		21.29	21.16	21.27
10	25	12		21.28	21.12	21.36
10	25	25		21.21	21.09	21.29
10	50	0		21.25	21.11	21.33
10	1	0	16-QAM	21.60	21.43	21.53
10	1	25		21.55	21.36	21.55
10	1	49		21.55	21.42	21.49
10	25	0		20.31	20.16	20.27
10	25	12		20.30	20.15	20.36
10	25	25		20.23	20.06	20.30
10	50	0		20.27	20.15	20.34



LTE Band 26 Maximum Average Power [dBm]						
5	1	0	QPSK	22.27	22.13	22.33
5	1	12		22.22	22.04	22.24
5	1	24		22.22	22.04	22.24
5	12	0		21.29	21.14	21.32
5	12	7		21.27	21.11	21.35
5	12	13		21.23	21.10	21.28
5	25	0		21.24	21.08	21.30
5	1	0	16-QAM	21.59	21.39	21.57
5	1	12		21.57	21.37	21.54
5	1	24		21.54	21.36	21.51
5	12	0		20.31	20.15	20.35
5	12	7		20.30	20.14	20.32
5	12	13		20.28	20.14	20.29
5	25	0		20.26	20.10	20.32
3	1	0	QPSK	22.25	22.09	22.32
3	1	8		22.35	22.15	22.35
3	1	14		22.23	22.06	22.24
3	8	0		21.30	21.10	21.31
3	8	4		21.29	21.11	21.32
3	8	7		21.27	21.07	21.30
3	15	0		21.26	21.10	21.29
3	1	0	16-QAM	21.50	21.31	21.49
3	1	8		21.64	21.41	21.62
3	1	14		21.50	21.31	21.48
3	8	0		20.36	20.18	20.37
3	8	4		20.35	20.20	20.37
3	8	7		20.35	20.13	20.36
3	15	0		20.29	20.13	20.31



LTE Band 26 Maximum Average Power [dBm]						
1.4	1	0	QPSK	22.11	22.01	22.18
1.4	1	3		22.26	22.07	22.22
1.4	1	5		22.18	21.97	22.16
1.4	3	0		22.24	22.04	22.22
1.4	3	1		22.30	22.12	22.30
1.4	3	3		22.31	22.11	22.27
1.4	6	0		21.26	21.01	21.22
1.4	1	0	16-QAM	21.49	21.27	21.44
1.4	1	3		21.53	21.34	21.53
1.4	1	5		21.51	21.27	21.45
1.4	3	0		21.26	21.07	21.26
1.4	3	1		21.29	21.14	21.31
1.4	3	3		21.30	21.15	21.32
1.4	6	0		20.27	20.14	20.28



ERP/EIRP

LTE Band 2 (G _T - L _C = 1.50 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.21	22.40	22.77	22.23	22.47	22.76	22.23	22.45	22.73
Conducted Power (Watts)	0.1663	0.1738	0.1892	0.1671	0.1766	0.1888	0.1671	0.1758	0.1875
EIRP(dBm)	23.71	23.90	24.27	23.73	23.97	24.26	23.73	23.95	24.23
EIRP(Watts)	0.2350	0.2455	0.2673	0.2360	0.2495	0.2667	0.2360	0.2483	0.2649

LTE Band 2 (G _T - L _C = 1.50 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.48	22.65	22.78	22.34	22.52	22.77	22.62	22.73	22.89
Conducted Power (Watts)	0.1770	0.1841	0.1897	0.1714	0.1786	0.1892	0.1828	0.1875	0.1945
EIRP(dBm)	23.98	24.15	24.28	23.84	24.02	24.27	24.12	24.23	24.39
EIRP(Watts)	0.2500	0.2600	0.2679	0.2421	0.2523	0.2673	0.2582	0.2649	0.2748



LTE Band 2 (G _T - L _C = 1.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	21.53	21.72	22.06	21.62	21.82	22.12	21.45	21.71	22.17
Conducted Power (Watts)	0.1422	0.1486	0.1607	0.1452	0.1521	0.1629	0.1396	0.1483	0.1648
EIRP(dBm)	23.03	23.22	23.56	23.12	23.32	23.62	22.95	23.21	23.67
EIRP(Watts)	0.2009	0.2099	0.2270	0.2051	0.2148	0.2301	0.1972	0.2094	0.2328

LTE Band 2 (G _T - L _C = 1.50 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	21.81	22.01	22.10	21.65	21.82	22.17	21.95	22.02	22.18
Conducted Power (Watts)	0.1517	0.1589	0.1622	0.1462	0.1521	0.1648	0.1567	0.1592	0.1652
EIRP(dBm)	23.31	23.51	23.60	23.15	23.32	23.67	23.45	23.52	23.68
EIRP(Watts)	0.2143	0.2244	0.2291	0.2065	0.2148	0.2328	0.2213	0.2249	0.2333



LTE Band 4 (G _T - L _C = 1.50 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.65	23.26	22.58	23.76	23.34	22.68	23.74	23.34	22.79
Conducted Power (Watts)	0.2317	0.2118	0.1811	0.2377	0.2158	0.1854	0.2366	0.2158	0.1901
EIRP(dBm)	25.15	24.76	24.08	25.26	24.84	24.18	25.24	24.84	24.29
EIRP(Watts)	0.3273	0.2992	0.2559	0.3357	0.3048	0.2618	0.3342	0.3048	0.2685

LTE Band 4 (G _T - L _C = 1.50 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	23.69	23.39	23.05	23.64	23.47	23.24	23.77	23.53	23.49
Conducted Power (Watts)	0.2339	0.2183	0.2018	0.2312	0.2223	0.2109	0.2382	0.2254	0.2234
EIRP(dBm)	25.19	24.89	24.55	25.14	24.97	24.74	25.27	25.03	24.99
EIRP(Watts)	0.3304	0.3083	0.2851	0.3266	0.3141	0.2979	0.3365	0.3184	0.3155



LTE Band 4 (G _T - L _C = 1.50 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.82	22.59	21.91	22.93	22.67	22.04	22.90	22.58	22.08
Conducted Power (Watts)	0.1914	0.1816	0.1552	0.1963	0.1849	0.1600	0.1950	0.1811	0.1614
EIRP(dBm)	24.32	24.09	23.41	24.43	24.17	23.54	24.40	24.08	23.58
EIRP(Watts)	0.2704	0.2564	0.2193	0.2773	0.2612	0.2259	0.2754	0.2559	0.2280

LTE Band 4 (G _T - L _C = 1.50 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.92	22.66	22.66	22.90	22.70	22.49	22.94	22.75	22.82
Conducted Power (Watts)	0.1959	0.1845	0.1845	0.1950	0.1862	0.1774	0.1968	0.1884	0.1914
EIRP(dBm)	24.42	24.16	23.82	24.40	24.20	23.99	24.44	24.25	24.32
EIRP(Watts)	0.2767	0.2606	0.2410	0.2754	0.2630	0.2506	0.2780	0.2661	0.2704



LTE Band 5 ($G_T - L_C = -0.50$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.15	21.96	22.18	22.24	22.03	22.25	22.04	21.98	22.23
Conducted Power (Watts)	0.1641	0.1570	0.1652	0.1675	0.1596	0.1679	0.1600	0.1578	0.1671
ERP(dBm)	19.50	19.31	19.53	19.59	19.38	19.60	19.39	19.33	19.58
ERP(Watts)	0.0891	0.0853	0.0897	0.0910	0.0867	0.0912	0.0869	0.0857	0.0908

LTE Band 5 ($G_T - L_C = -0.50$ dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	21.94	21.96	22.14
Conducted Power (Watts)	0.1563	0.1570	0.1637
ERP(dBm)	19.29	19.31	19.49
ERP(Watts)	0.0849	0.0853	0.0889



LTE Band 5 (G _T - L _C = -0.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.39	21.21	21.38	21.40	21.35	21.50	21.34	21.25	21.50
Conducted Power (Watts)	0.1377	0.1321	0.1374	0.1380	0.1365	0.1413	0.1361	0.1334	0.1413
ERP(dBm)	18.74	18.56	18.73	18.75	18.70	18.85	18.69	18.60	18.85
ERP(Watts)	0.0748	0.0718	0.0746	0.0750	0.0741	0.0767	0.0740	0.0724	0.0767

LTE Band 5 (G _T - L _C = -0.50 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.41	21.21	21.38
Conducted Power (Watts)	0.1384	0.1321	0.1374
ERP(dBm)	18.76	18.56	18.73
ERP(Watts)	0.0752	0.0718	0.0746



LTE Band 7 (G _T - L _C = 2.00 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.15	23.36	23.15
Conducted Power (Watts)	0.2065	0.2168	0.2065
EIRP(dBm)	25.15	25.36	25.15
EIRP(Watts)	0.3273	0.3436	0.3273

LTE Band 7 (G _T - L _C = 2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	23.33	23.45	23.26	23.23	23.43	23.27	23.45	23.53	23.40
Conducted Power (Watts)	0.2153	0.2213	0.2118	0.2104	0.2203	0.2123	0.2213	0.2254	0.2188
EIRP(dBm)	25.33	25.45	25.26	25.23	25.43	25.27	25.45	25.53	25.40
EIRP(Watts)	0.3412	0.3508	0.3357	0.3334	0.3491	0.3365	0.3508	0.3573	0.3467



LTE Band 7 ($G_T - L_C = 2.00$ dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.35	22.57	22.37
Conducted Power (Watts)	0.1718	0.1807	0.1726
EIRP(dBm)	24.35	24.57	24.37
EIRP(Watts)	0.2723	0.2864	0.2735

LTE Band 7 ($G_T - L_C = 2.00$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.53	22.66	22.51	22.45	22.71	22.55	22.64	22.77	22.62
Conducted Power (Watts)	0.1791	0.1845	0.1782	0.1758	0.1866	0.1799	0.1837	0.1892	0.1828
EIRP(dBm)	24.53	24.66	24.51	24.45	24.71	24.55	24.64	24.77	24.62
EIRP(Watts)	0.2838	0.2924	0.2825	0.2786	0.2958	0.2851	0.2911	0.2999	0.2897



LTE Band 12 ($G_T - L_C = -0.50$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.16	22.28	22.29	22.19	22.36	22.33	22.23	22.26	22.30
Conducted Power (Watts)	0.1644	0.1690	0.1694	0.1656	0.1722	0.1710	0.1671	0.1683	0.1698
ERP(dBm)	19.51	19.63	19.64	19.54	19.71	19.68	19.58	19.61	19.65
ERP(Watts)	0.0893	0.0918	0.0920	0.0899	0.0935	0.0929	0.0908	0.0914	0.0923

LTE Band 12 ($G_T - L_C = -0.50$ dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.21	22.28	22.15
Conducted Power (Watts)	0.1663	0.1690	0.1641
ERP(dBm)	19.56	19.63	19.50
ERP(Watts)	0.0904	0.0918	0.0891



LTE Band 12 (G _T - L _C = -0.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.38	21.48	21.50	21.45	21.50	21.49	21.48	21.50	21.39
Conducted Power (Watts)	0.1374	0.1406	0.1413	0.1396	0.1413	0.1409	0.1406	0.1413	0.1377
ERP(dBm)	18.73	18.83	18.85	18.80	18.85	18.84	18.83	18.85	18.74
ERP(Watts)	0.0746	0.0764	0.0767	0.0759	0.0767	0.0766	0.0764	0.0767	0.0748

LTE Band 12 (G _T - L _C = -0.50 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.48	21.50	21.39
Conducted Power (Watts)	0.1406	0.1413	0.1377
ERP(dBm)	18.83	18.85	18.74
ERP(Watts)	0.0764	0.0767	0.0748



LTE Band 13 ($G_T - L_C = 0.10$ dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.16	22.12	22.09		22.17	
Conducted Power (Watts)	0.1644	0.1629	0.1618		0.1648	
ERP(dBm)	20.11	20.07	20.04		20.12	
ERP(Watts)	0.1026	0.1016	0.1009		0.1028	

LTE Band 13 ($G_T - L_C = -0.10$ dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	21.44	21.34	21.26		21.44	
Conducted Power (Watts)	0.1393	0.1361	0.1337		0.1393	
ERP(dBm)	19.39	19.29	19.21		19.39	
ERP(Watts)	0.0869	0.0849	0.0834		0.0869	



LTE Band 26 (G _T - L _C = -0.50 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.31	22.11	22.27	22.35	22.15	22.35	22.27	22.13	22.33
Conducted Power (Watts)	0.1702	0.1626	0.1687	0.1718	0.1641	0.1718	0.1687	0.1633	0.1710
ERP(dBm)	19.66	19.46	19.62	19.70	19.50	19.70	19.62	19.48	19.68
ERP(Watts)	0.0925	0.0883	0.0916	0.0933	0.0891	0.0933	0.0916	0.0887	0.0929

LTE Band 26 (G _T - L _C = -0.50 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.31	22.16	22.27	22.39	22.38	22.33	22.42
Conducted Power (Watts)	0.1702	0.1644	0.1687	0.1734	0.1730	0.1710	0.1746
ERP(dBm)	19.66	19.51	19.62	19.74	19.73	19.68	19.77
ERP(Watts)	0.0925	0.0893	0.0916	0.0942	0.0940	0.0929	0.0948



LTE Band 26 (G _T - L _C = -0.50 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.53	21.34	21.53	21.64	21.41	21.62	21.59	21.39	21.57
Conducted Power (Watts)	0.1422	0.1361	0.1422	0.1459	0.1384	0.1452	0.1442	0.1377	0.1435
ERP(dBm)	18.88	18.69	18.88	18.99	18.76	18.97	18.94	18.74	18.92
ERP(Watts)	0.0773	0.0740	0.0773	0.0793	0.0752	0.0789	0.0783	0.0748	0.0780

LTE Band 26 (G _T - L _C = -0.50 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.60	21.43	21.53	21.59	21.36	21.62	21.64
Conducted Power (Watts)	0.1445	0.1390	0.1422	0.1442	0.1368	0.1452	0.1459
ERP(dBm)	18.95	18.78	18.88	18.94	18.71	18.97	18.99
ERP(Watts)	0.0785	0.0755	0.0773	0.0783	0.0743	0.0789	0.0793



Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	5.13	4.87	6.12	PASS
Middle CH	4.87	5.04	5.59	6.00	
Highest CH	4.52	5.25	4.99	6.23	

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.72	4.99	5.74	PASS
Middle CH	4.23	4.90	4.93	5.83	
Highest CH	4.41	4.96	5.01	5.86	

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.20	4.93	4.99	5.80	PASS
Middle CH	4.41	4.70	5.13	5.59	
Highest CH	4.43	4.81	5.28	5.86	

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.81	4.93	5.77	PASS
Middle CH	4.26	4.96	4.81	5.97	
Highest CH	4.26	4.90	4.99	5.91	



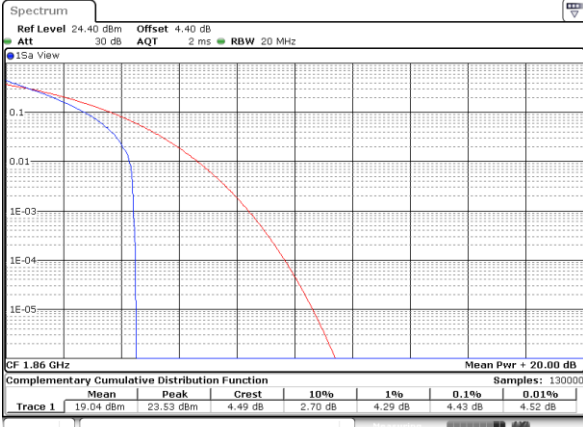
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.49	5.04	5.39	5.97	
Highest CH	-	-	-	-	

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	5.42	4.81	6.23	PASS
Middle CH	4.12	5.19	5.07	6.17	
Highest CH	4.58	5.22	5.16	6.14	



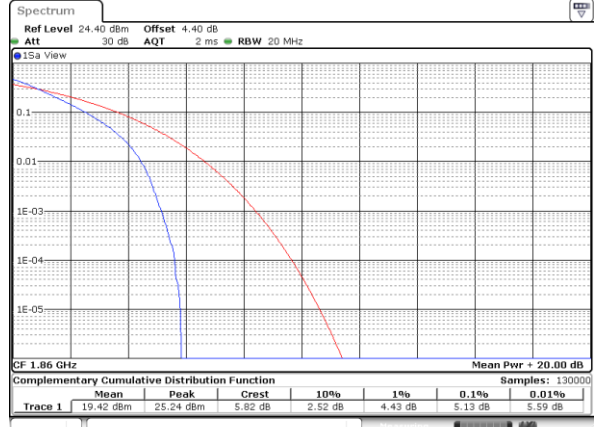
LTE Band 2 / 20MHz / QPSK

Lowest Channel / 1RB



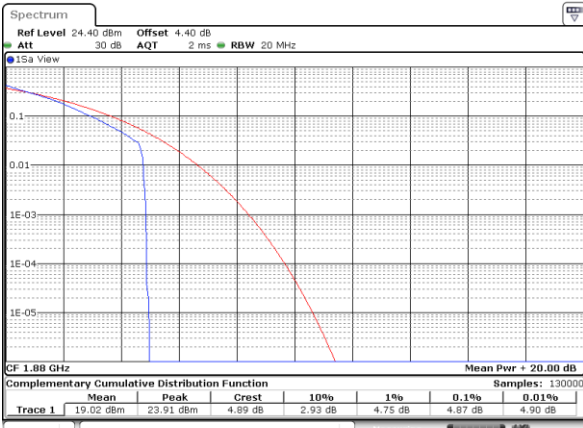
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Lowest Channel / Full RB



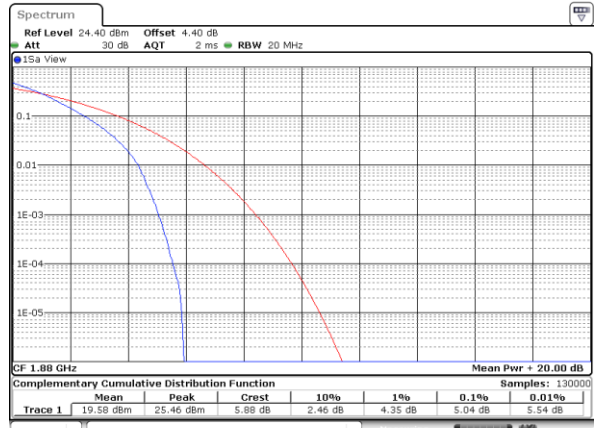
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Middle Channel / 1RB



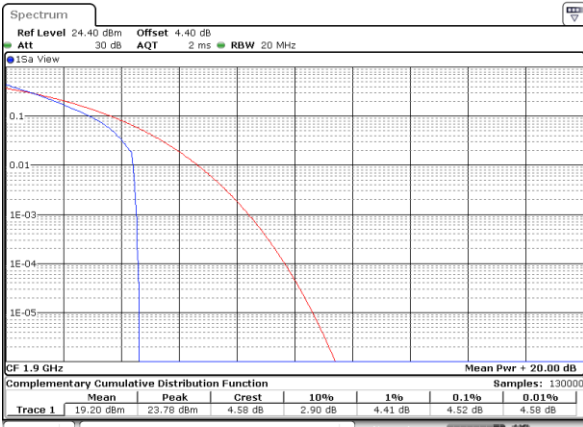
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Middle Channel / Full RB



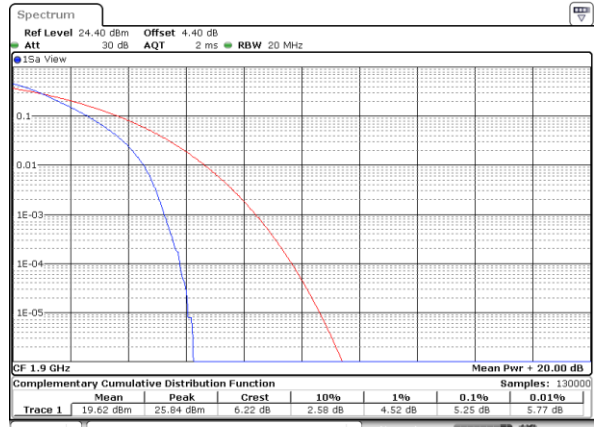
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Highest Channel / 1RB



Date: 20.OCT.2017 21:19:11

Highest Channel / Full RB

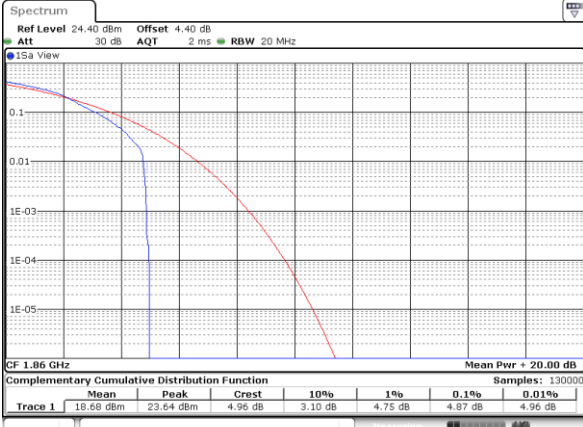


Date: 20.OCT.2017 21:19:00



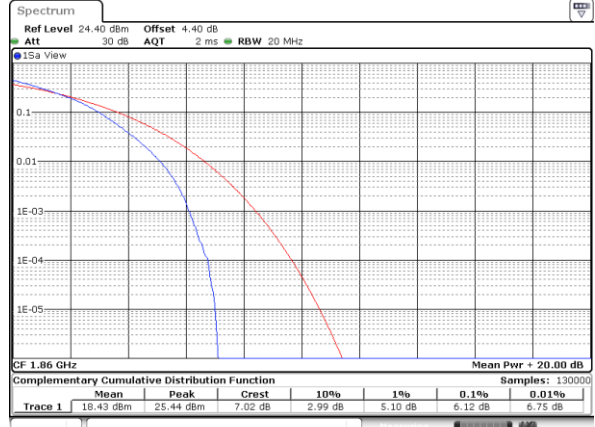
LTE Band 2 / 20MHz / 16QAM

Lowest Channel / 1RB



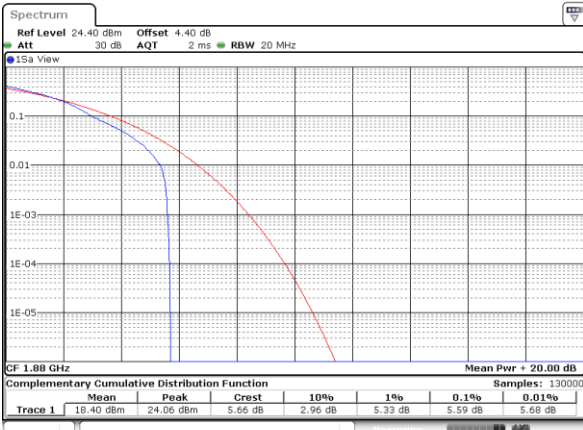
Date: 20.OCT.2017 21:17:28

Lowest Channel / Full RB



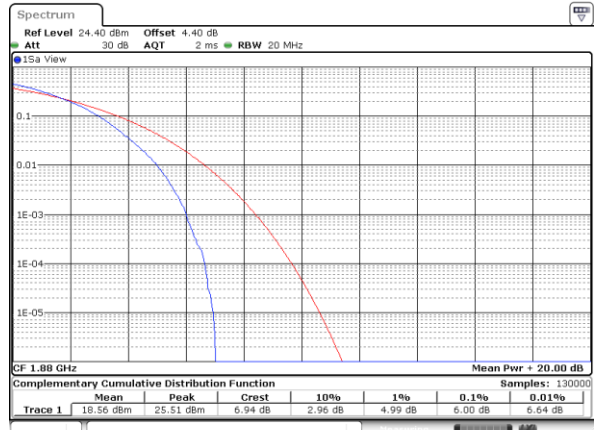
Date: 20.OCT.2017 21:17:37

Middle Channel / 1RB



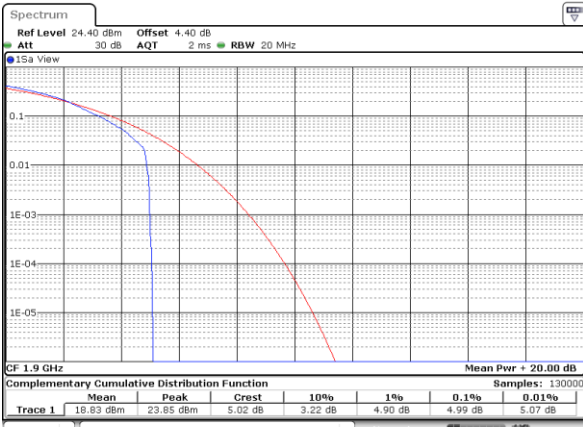
Date: 20.OCT.2017 21:17:46

Middle Channel / Full RB



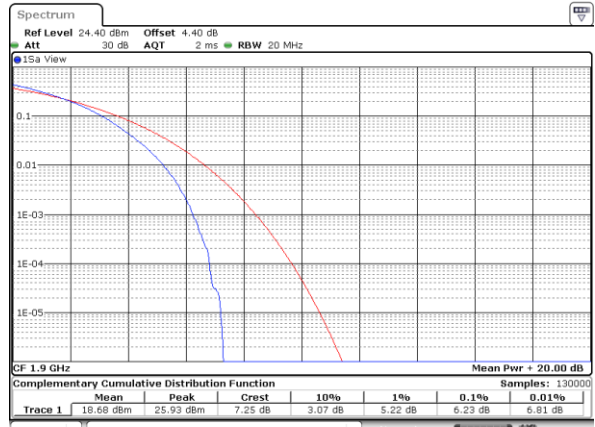
Date: 20.OCT.2017 21:17:55

Highest Channel / 1RB



Date: 20.OCT.2017 21:18:04

Highest Channel / Full RB

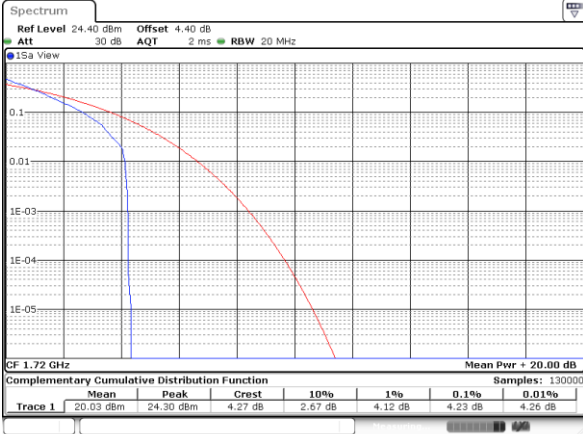


Date: 20.OCT.2017 21:18:13



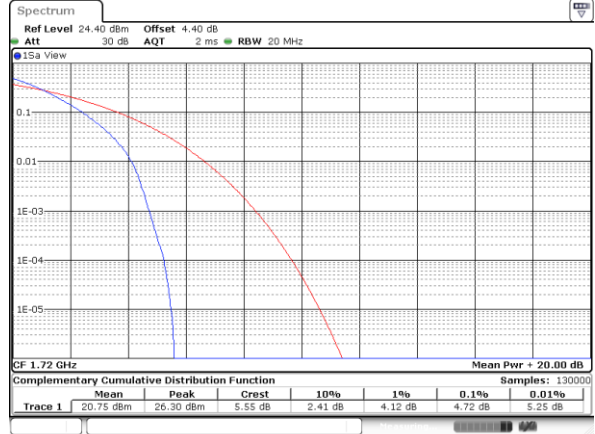
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



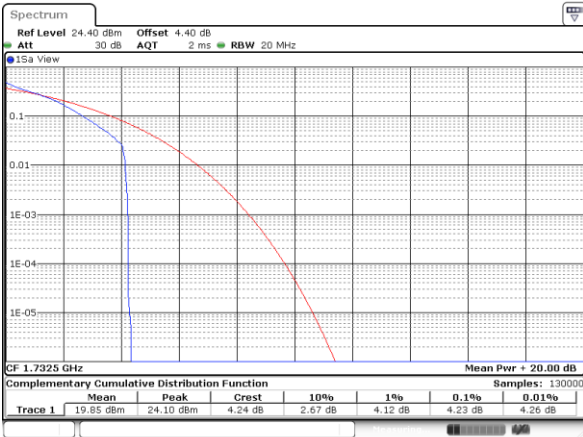
Date: 20.OCT.2017 23:58:02

Lowest Channel / Full RB



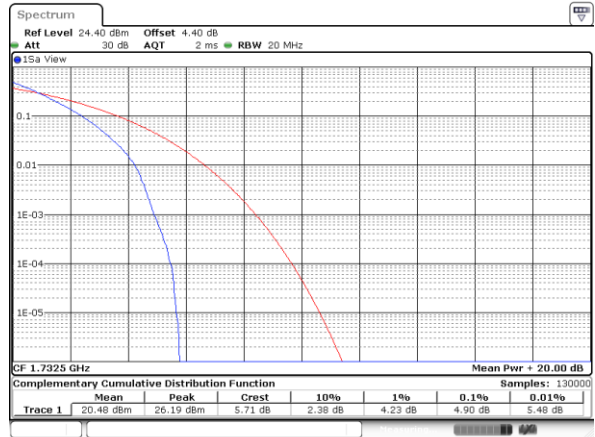
Date: 20.OCT.2017 23:57:48

Middle Channel / 1RB



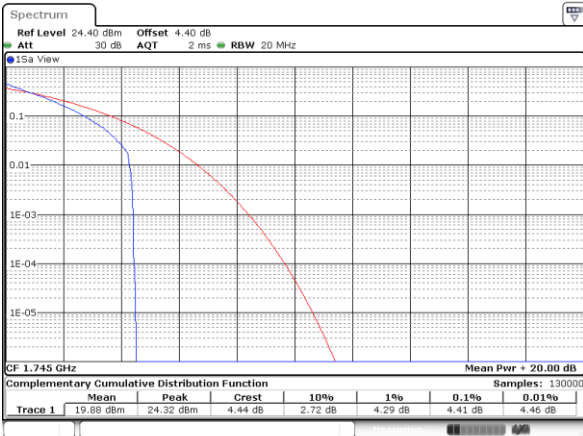
Date: 20.OCT.2017 23:58:15

Middle Channel / Full RB



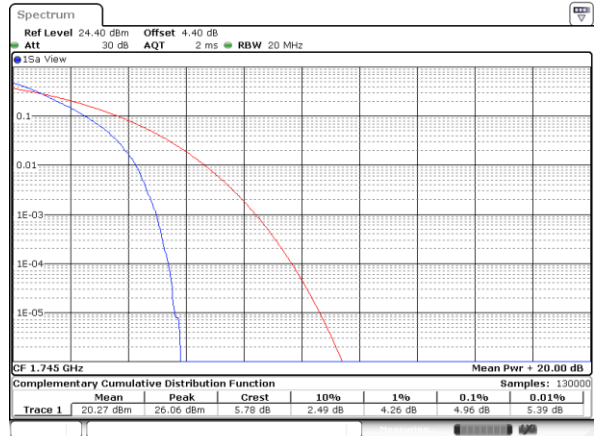
Date: 20.OCT.2017 23:57:36

Highest Channel / 1RB



Date: 20.OCT.2017 23:58:30

Highest Channel / Full RB

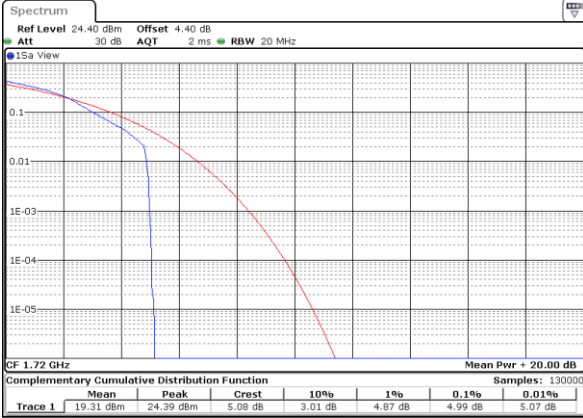


Date: 20.OCT.2017 23:57:16



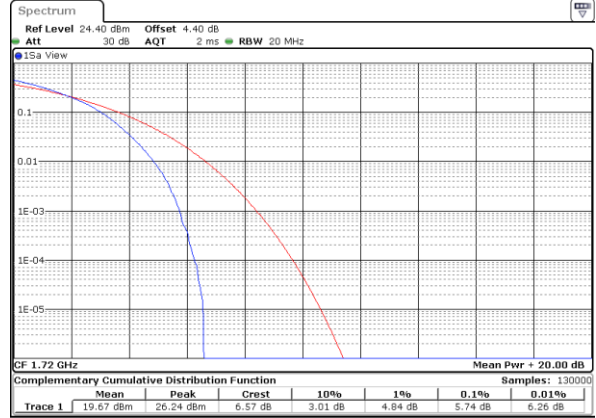
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



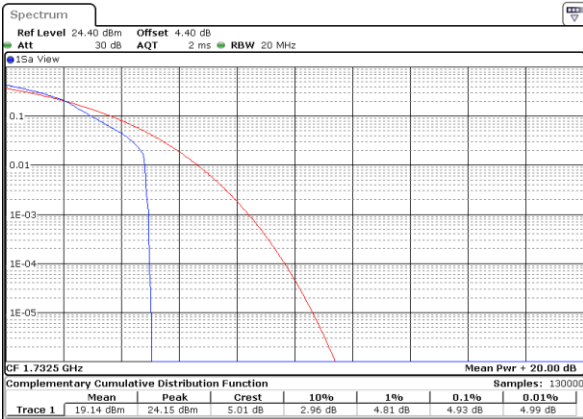
Date: 20.OCT.2017 23:55:03

Lowest Channel / Full RB



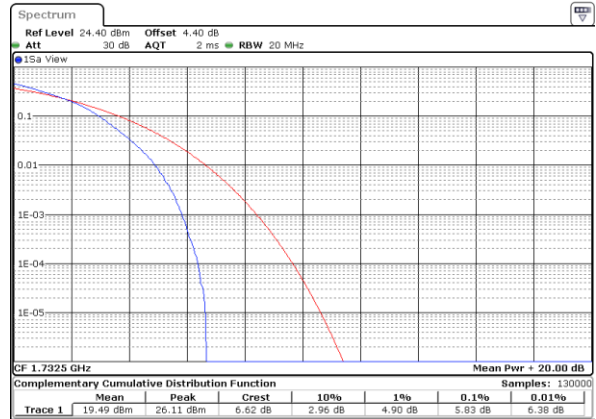
Date: 20.OCT.2017 23:55:14

Middle Channel / 1RB



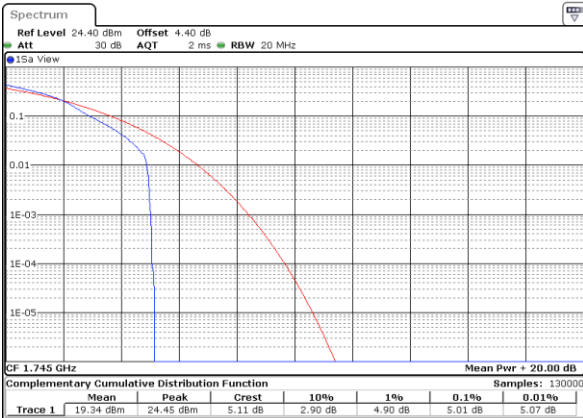
Date: 20.OCT.2017 23:56:22

Middle Channel / Full RB



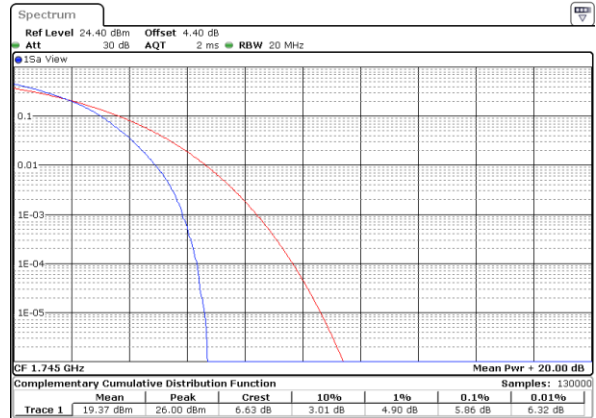
Date: 20.OCT.2017 23:56:32

Highest Channel / 1RB



Date: 20.OCT.2017 23:56:41

Highest Channel / Full RB

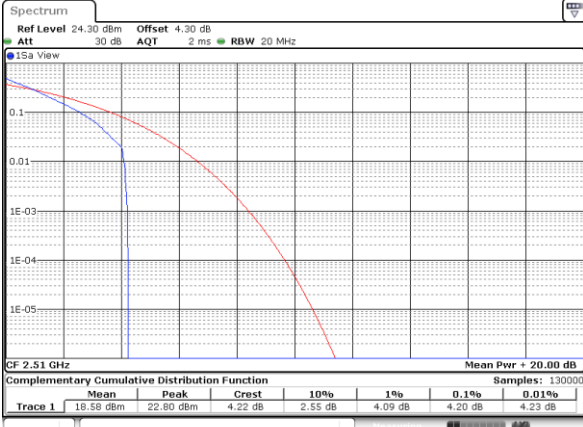


Date: 20.OCT.2017 23:56:50



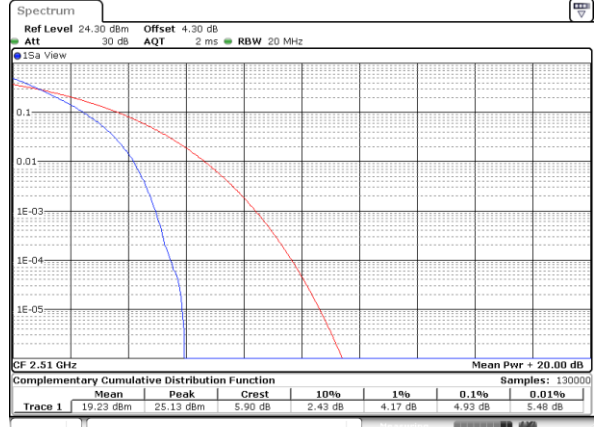
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



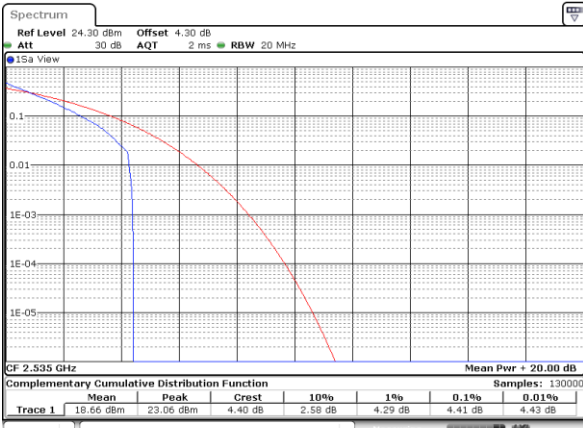
Date: 23.OCT.2017 10:37:40

Lowest Channel / Full RB



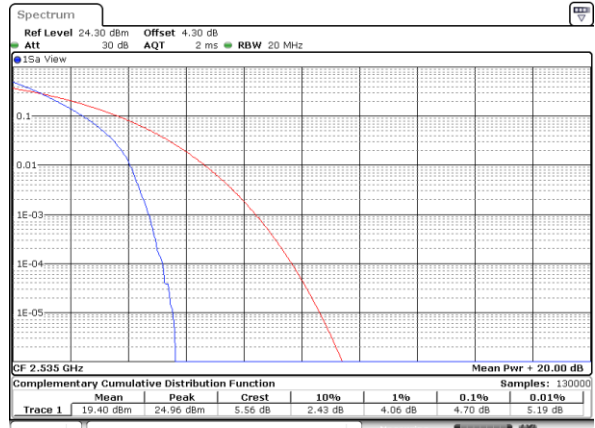
Date: 23.OCT.2017 10:38:09

Middle Channel / 1RB



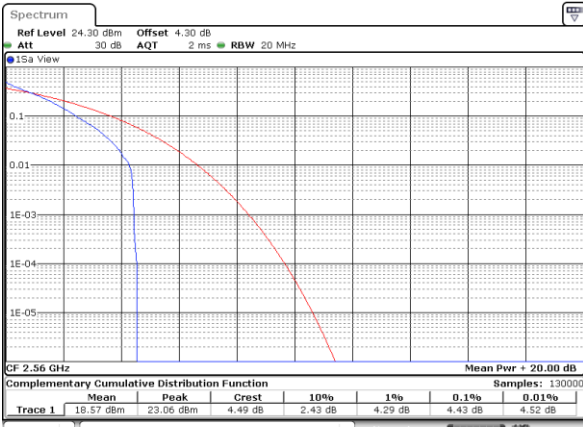
Date: 23.OCT.2017 10:39:01

Middle Channel / Full RB



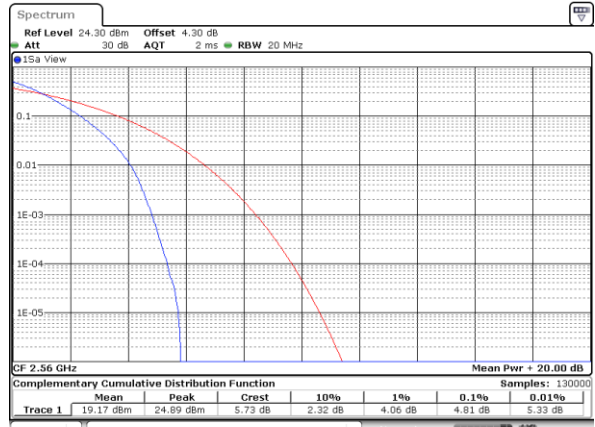
Date: 23.OCT.2017 10:38:33

Highest Channel / 1RB



Date: 23.OCT.2017 10:39:10

Highest Channel / Full RB

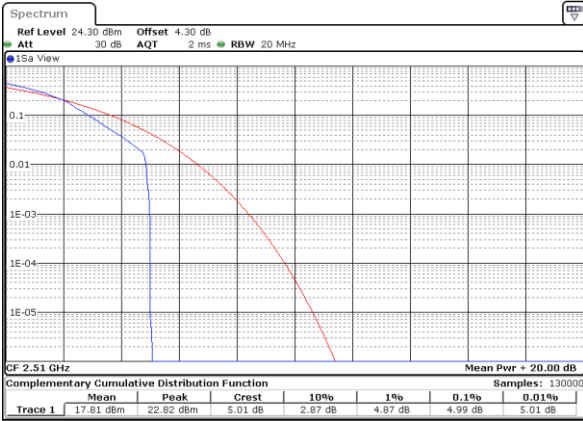


Date: 23.OCT.2017 10:39:40



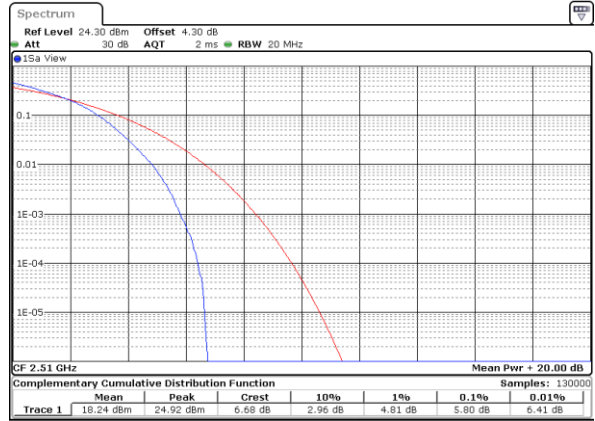
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 23.OCT.2017 10:37:51

Lowest Channel / Full RB



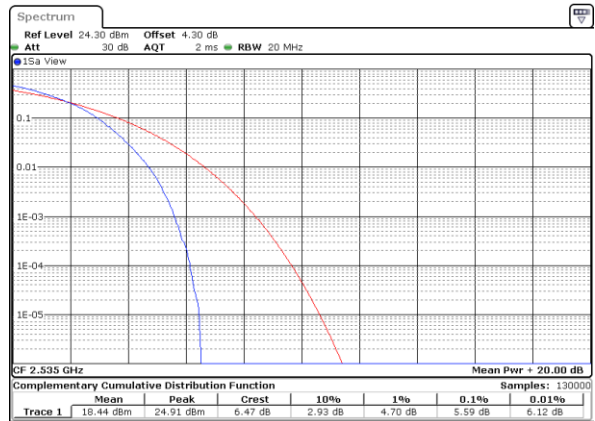
Date: 23.OCT.2017 10:37:59

Middle Channel / 1RB



Date: 23.OCT.2017 10:38:51

Middle Channel / Full RB



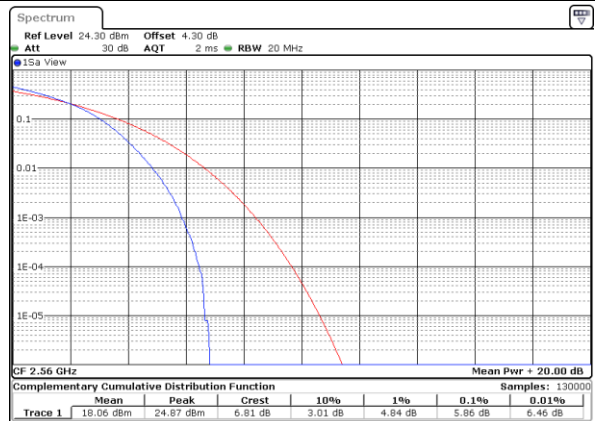
Date: 23.OCT.2017 10:38:42

Highest Channel / 1RB



Date: 23.OCT.2017 10:39:19

Highest Channel / Full RB

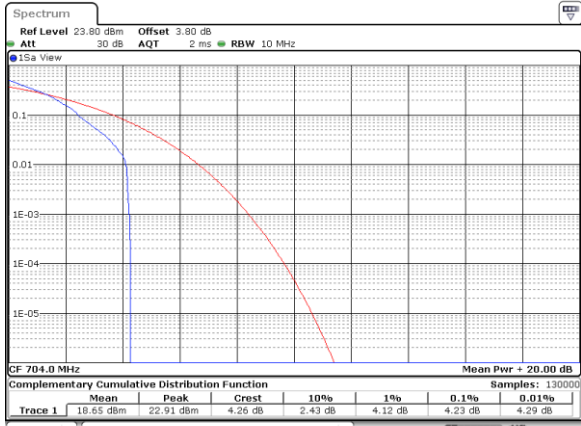


Date: 23.OCT.2017 10:39:30



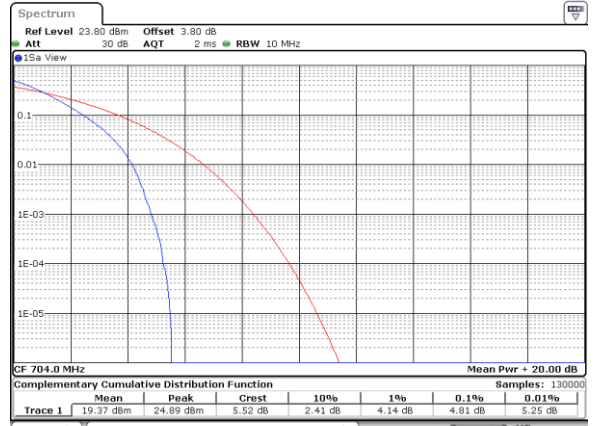
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



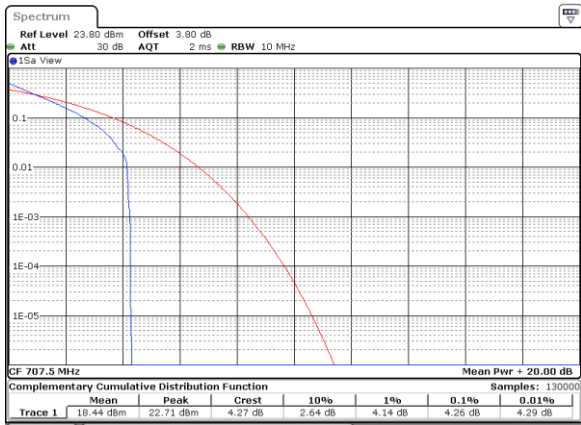
Date: 20 OCT 2017 21:26:56

Lowest Channel / Full RB



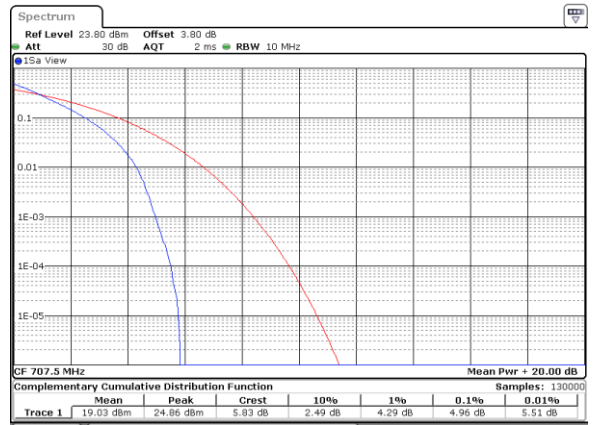
Date: 20 OCT 2017 21:27:05

Middle Channel / 1RB



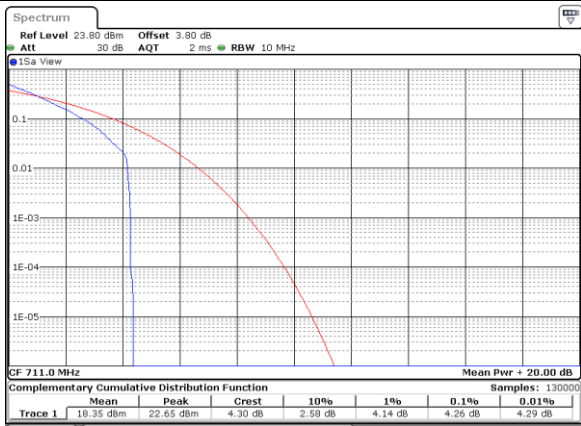
Date: 20 OCT 2017 21:27:40

Middle Channel / Full RB



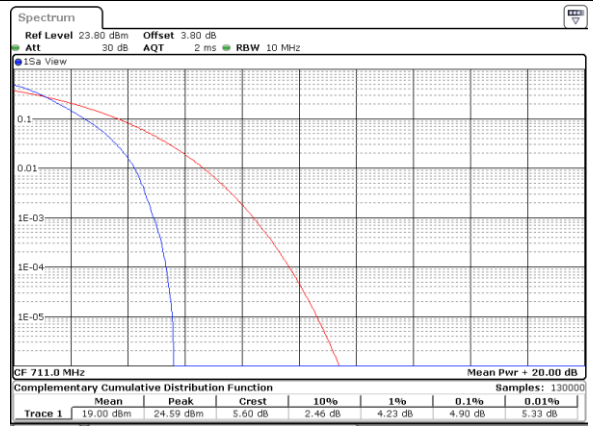
Date: 20 OCT 2017 21:27:31

Highest Channel / 1RB



Date: 20 OCT 2017 21:28:06

Highest Channel / Full RB



Date: 20 OCT 2017 21:28:14



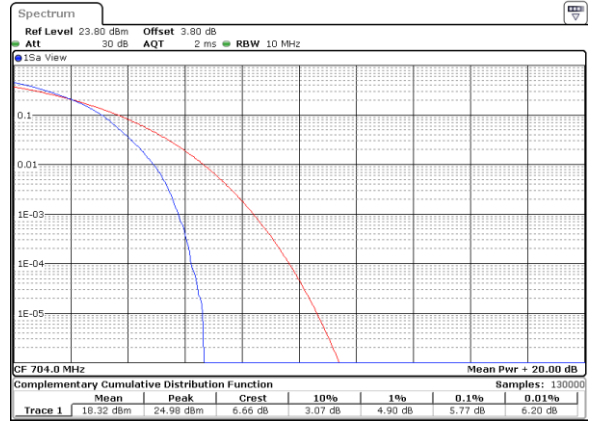
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



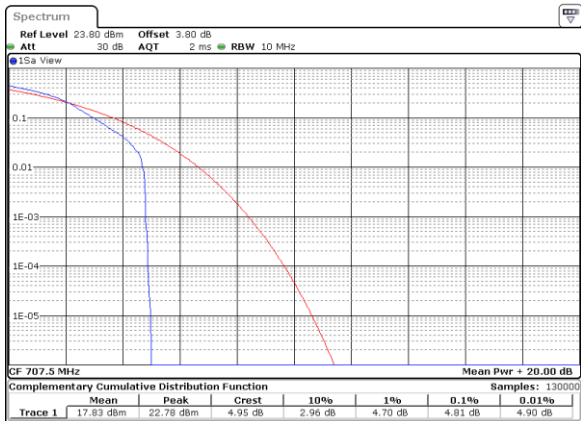
Date: 20 OCT 2017 21:26:46

Lowest Channel / Full RB



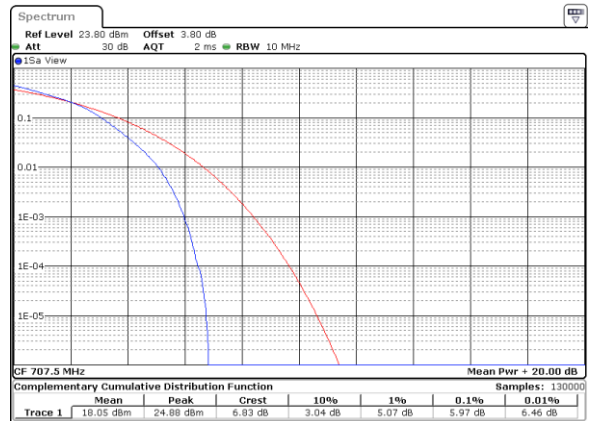
Date: 20 OCT 2017 21:27:13

Middle Channel / 1RB



Date: 20 OCT 2017 21:27:48

Middle Channel / Full RB



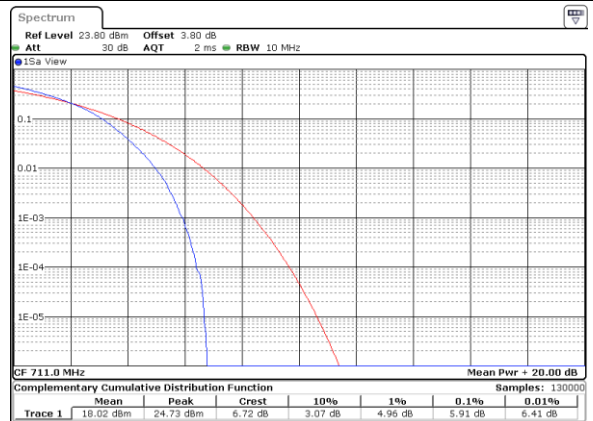
Date: 20 OCT 2017 21:27:22

Highest Channel / 1RB



Date: 20 OCT 2017 21:27:57

Highest Channel / Full RB

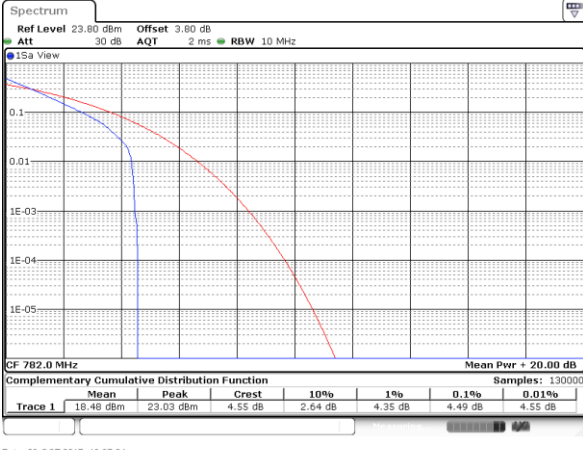


Date: 20 OCT 2017 21:28:23



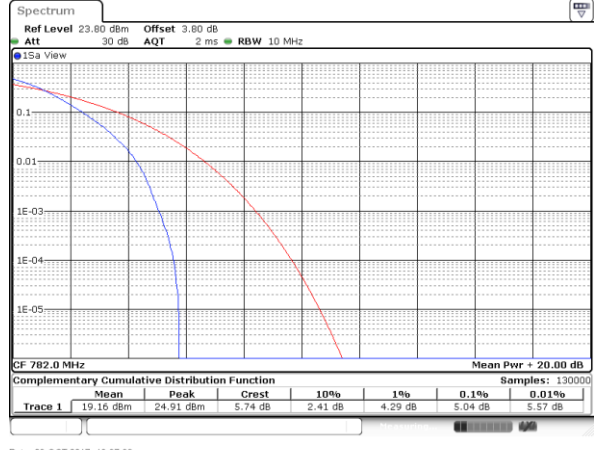
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 23.OCT.2017 13:37:04

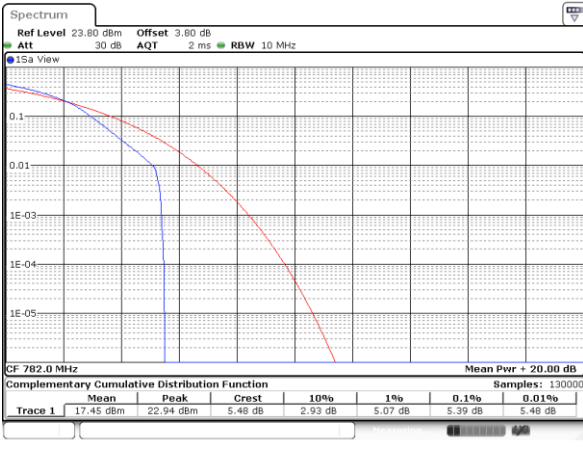
Middle Channel / Full RB



Date: 23.OCT.2017 13:37:39

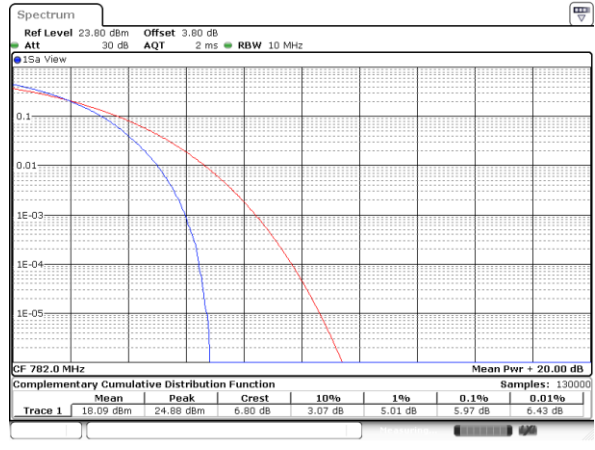
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 23.OCT.2017 13:37:13

Middle Channel / Full RB

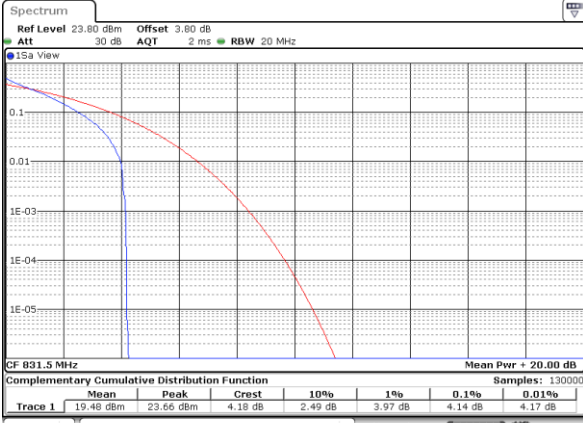


Date: 23.OCT.2017 13:37:30



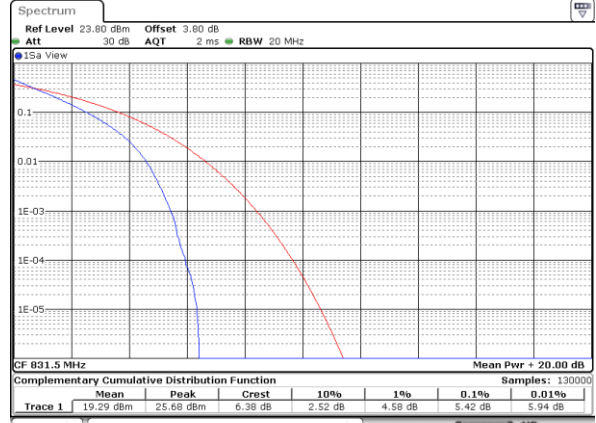
LTE Band 26 / 15MHz / QPSK

Lowest Channel / 1RB



Date: 23.OCT.2017 15:40:02

Lowest Channel / Full RB



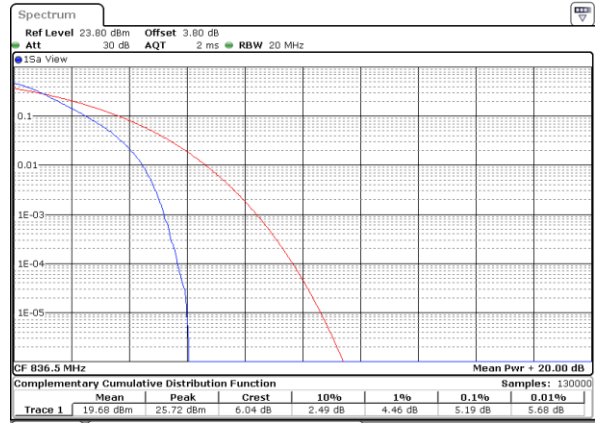
Date: 23.OCT.2017 15:40:50

Middle Channel / 1RB



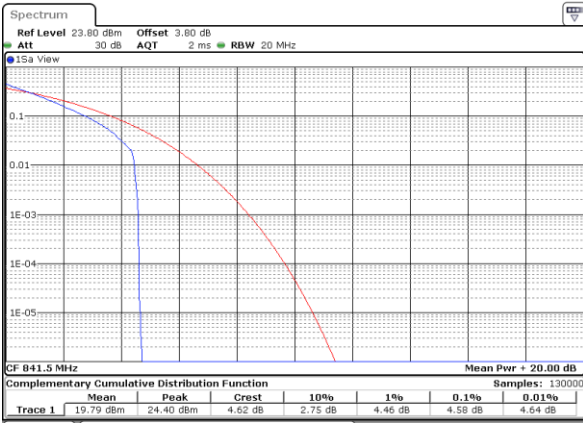
Date: 23.OCT.2017 15:43:03

Middle Channel / Full RB



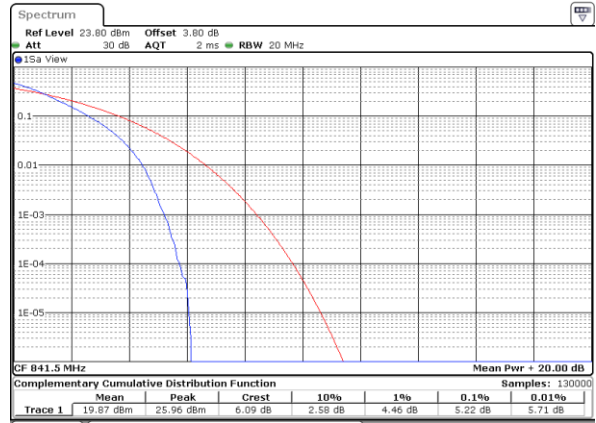
Date: 23.OCT.2017 15:43:29

Highest Channel / 1RB



Date: 23.OCT.2017 15:43:55

Highest Channel / Full RB

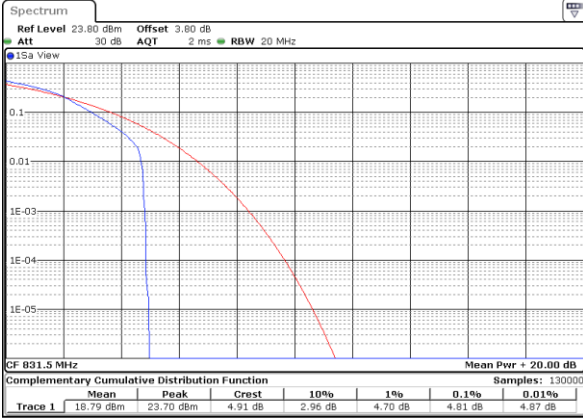


Date: 23.OCT.2017 15:44:21



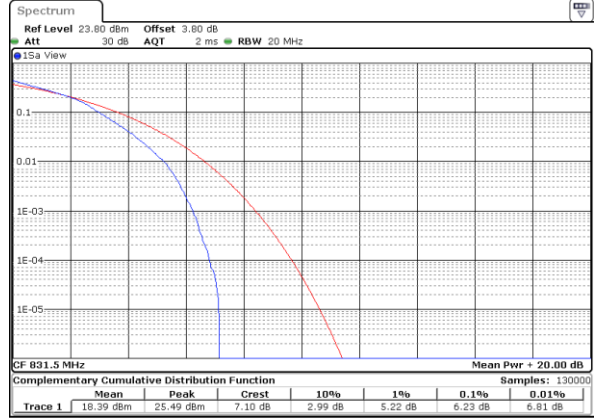
LTE Band 26 / 15MHz / 16QAM

Lowest Channel / 1RB



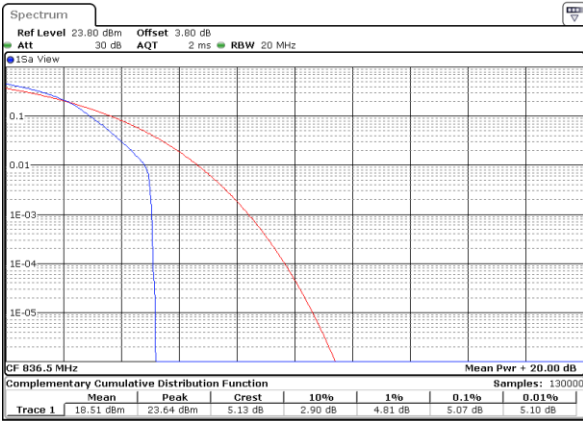
Date: 23.OCT.2017 15:40:21

Lowest Channel / Full RB



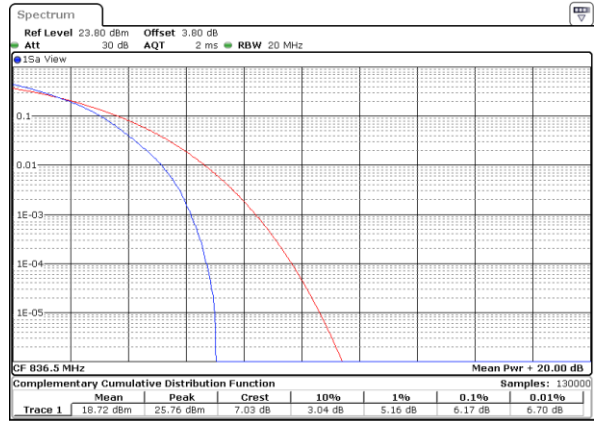
Date: 23.OCT.2017 15:41:02

Middle Channel / 1RB



Date: 23.OCT.2017 15:43:15

Middle Channel / Full RB



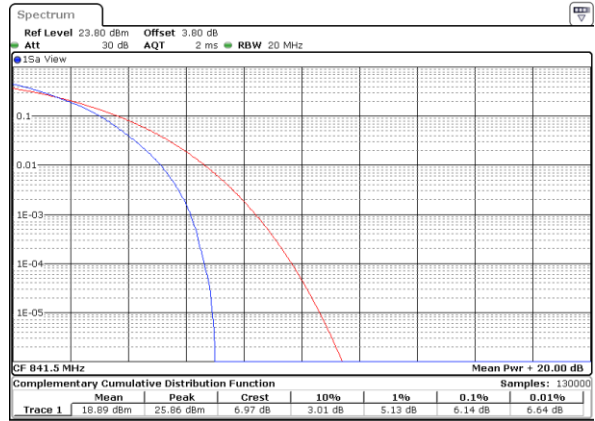
Date: 23.OCT.2017 15:43:41

Highest Channel / 1RB



Date: 23.OCT.2017 15:44:07

Highest Channel / Full RB



Date: 23.OCT.2017 15:44:32



26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.214	1.228	3.015	3.009	4.955	4.915	9.75	9.87	14.146	14.386	20.18	20.18
Middle CH	1.222	1.228	3.003	3.039	4.885	4.845	9.79	9.89	14.206	14.236	20.14	20.38
Highest CH	1.228	1.217	3.033	3.015	4.945	4.815	9.77	9.75	14.476	14.356	20.18	20.22

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.228	1.236	3.033	3.003	4.885	4.875	9.73	9.73	14.476	14.386	20.06	20.10
Middle CH	1.234	1.225	3.021	3.003	4.905	4.885	9.71	9.97	14.356	14.446	20.30	19.98
Highest CH	1.236	1.236	3.015	3.057	4.925	4.865	9.67	9.77	14.356	14.296	20.22	20.26

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.905	4.895	9.79	9.87	14.176	14.505	20.22	20.02
Middle CH	-	-	-	-	4.935	4.805	9.81	9.63	14.476	14.446	20.06	20.10
Highest CH	-	-	-	-	4.915	4.825	9.75	9.85	14.386	14.565	20.18	20.06

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.228	1.228	3.057	2.997	4.925	4.875	9.81	9.63	-	-	-	-
Middle CH	1.236	1.220	3.027	3.045	4.885	4.925	9.69	9.81	-	-	-	-
Highest CH	1.236	1.211	3.057	3.021	4.815	4.955	9.81	9.83	-	-	-	-



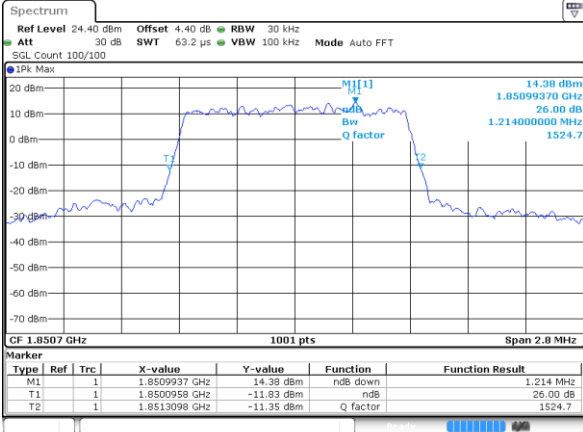
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.915	4.885	-	-	-	-	-	-
Middle CH	-	-	-	-	4.895	4.935	9.85	9.67	-	-	-	-
Highest CH	-	-	-	-	4.955	4.855	-	-	-	-	-	-

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		CH26765	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.234	1.220	3.051	3.039	4.835	4.895	9.95	9.79	14.476	14.296	14.266	14.116
Middle CH	1.222	1.217	3.015	3.027	4.935	4.845	9.81	9.85	14.446	14.595	-	-
Highest CH	1.222	1.225	3.045	2.997	4.845	4.945	9.81	9.79	14.386	14.266	-	-



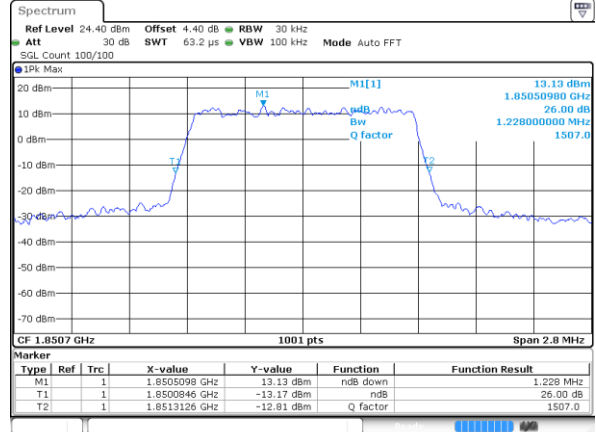
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



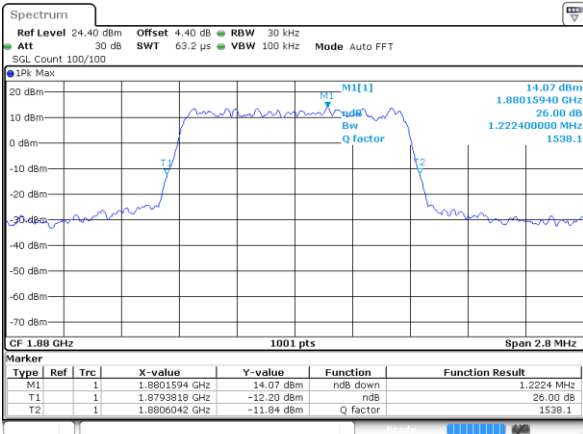
Date: 20 OCT 2017 19:37:43

Lowest Channel / 1.4MHz / 16QAM



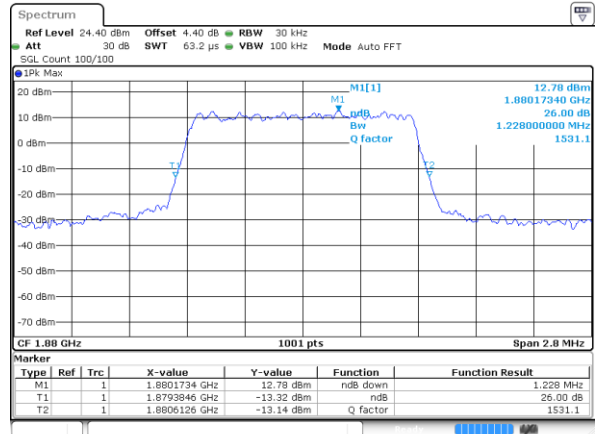
Date: 20 OCT 2017 19:37:53

Middle Channel / 1.4MHz / QPSK



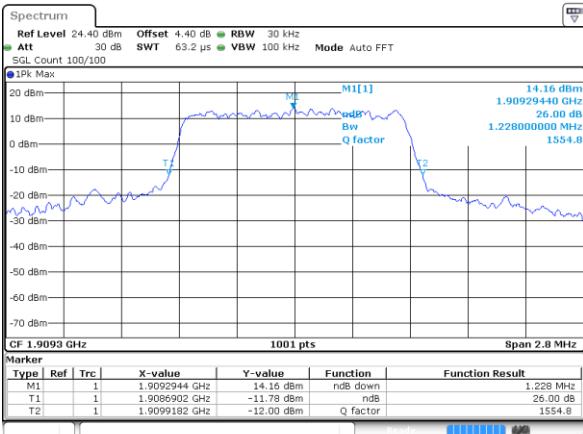
Date: 20 OCT 2017 19:44:43

Middle Channel / 1.4MHz / 16QAM



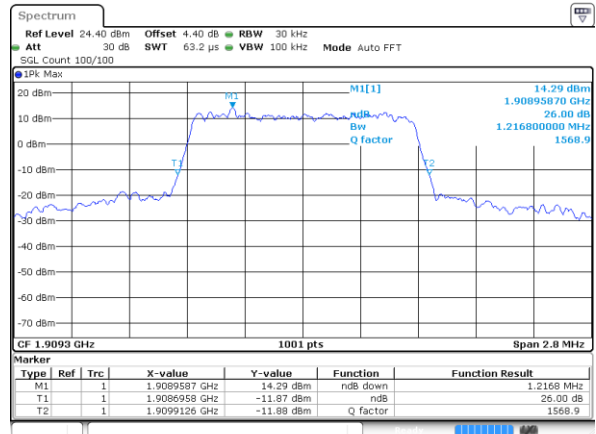
Date: 20 OCT 2017 19:44:53

Highest Channel / 1.4MHz / QPSK



Date: 20 OCT 2017 19:47:13

Highest Channel / 1.4MHz / 16QAM

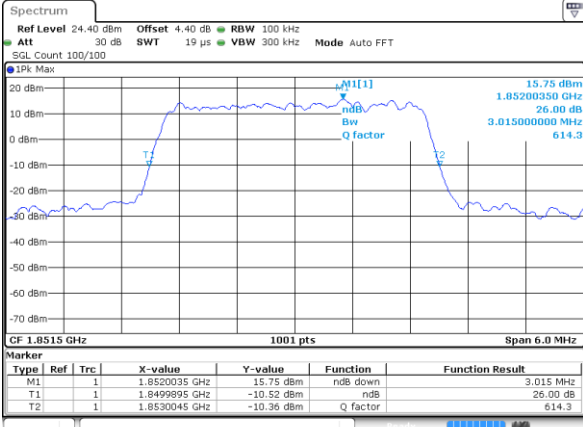


Date: 20 OCT 2017 19:47:23



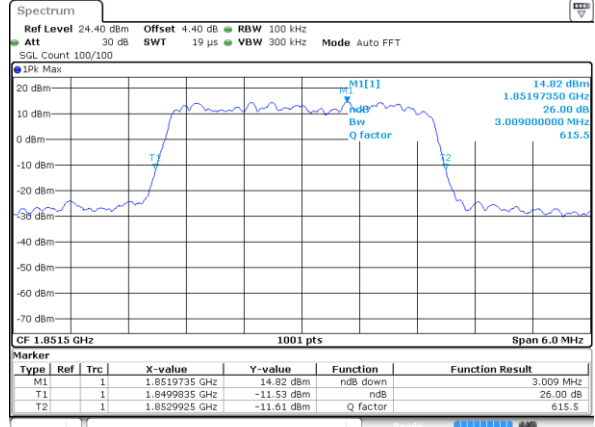
LTE Band 2

Lowest Channel / 3MHz / QPSK



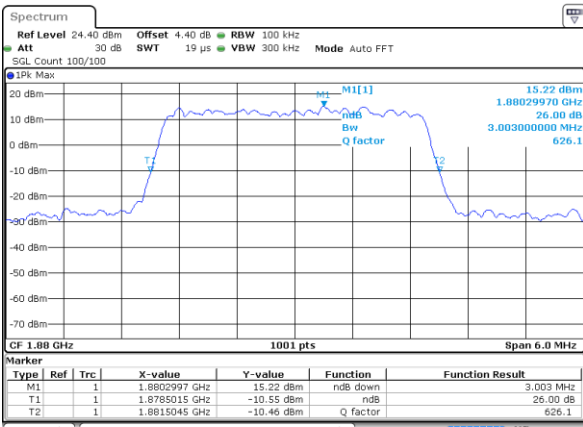
Date: 20.OCT.2017 19:54:13

Lowest Channel / 3MHz / 16QAM



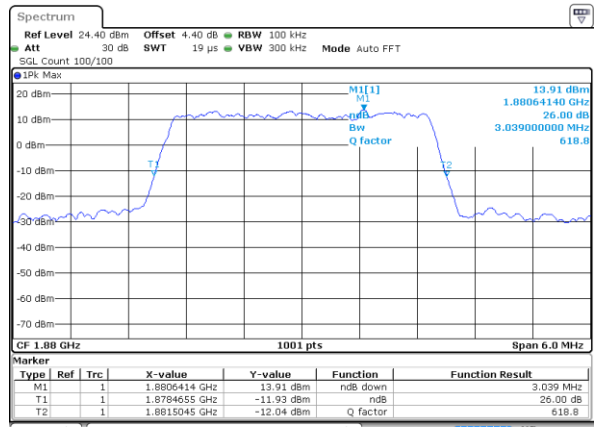
Date: 20.OCT.2017 19:54:23

Middle Channel / 3MHz / QPSK



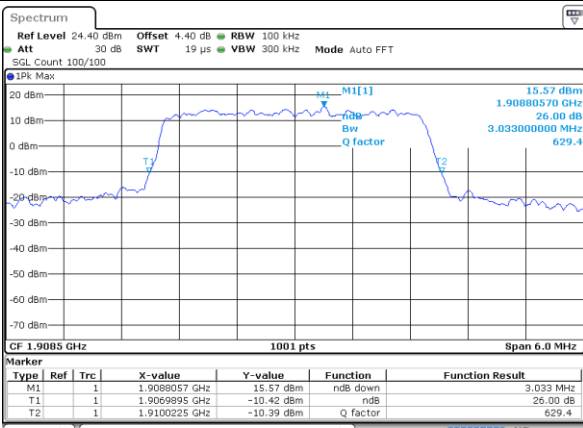
Date: 20.OCT.2017 20:01:14

Middle Channel / 3MHz / 16QAM



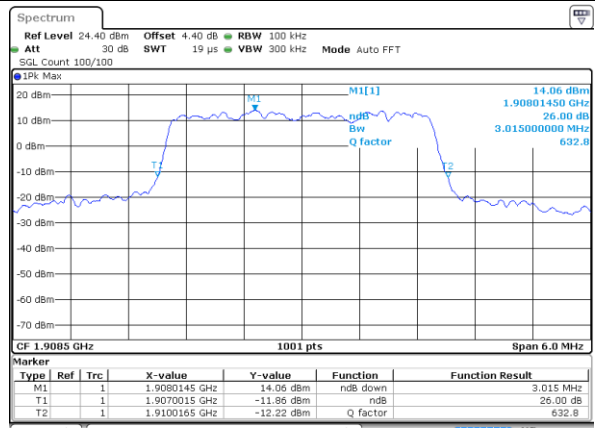
Date: 20.OCT.2017 20:01:24

Highest Channel / 3MHz / QPSK



Date: 20.OCT.2017 20:03:44

Highest Channel / 3MHz / 16QAM

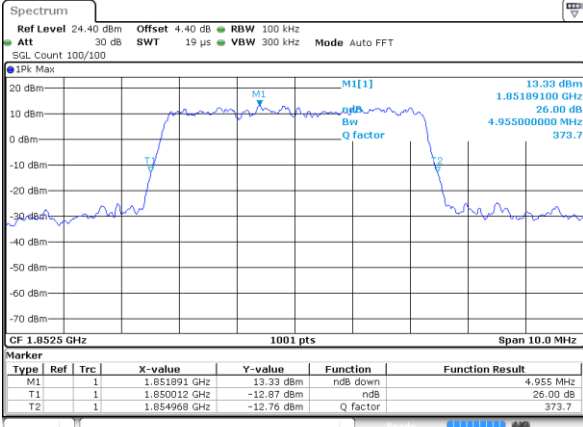


Date: 20.OCT.2017 20:03:54



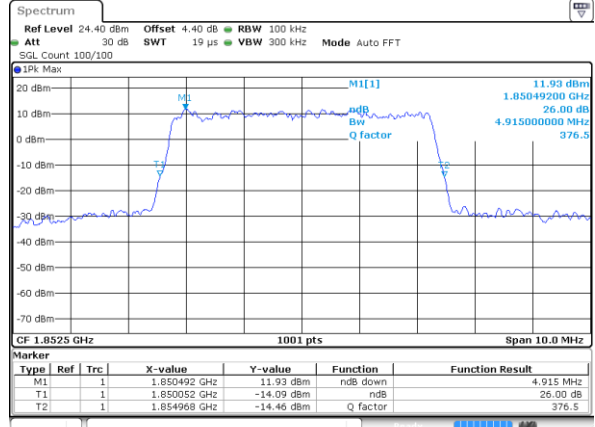
LTE Band 2

Lowest Channel / 5MHz / QPSK



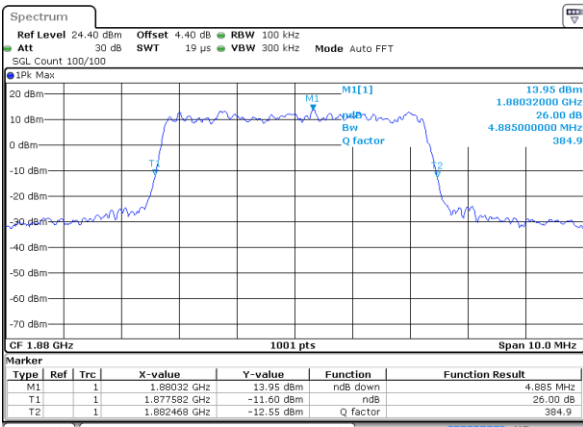
Date: 20.OCT.2017 20:10:45

Lowest Channel / 5MHz / 16QAM



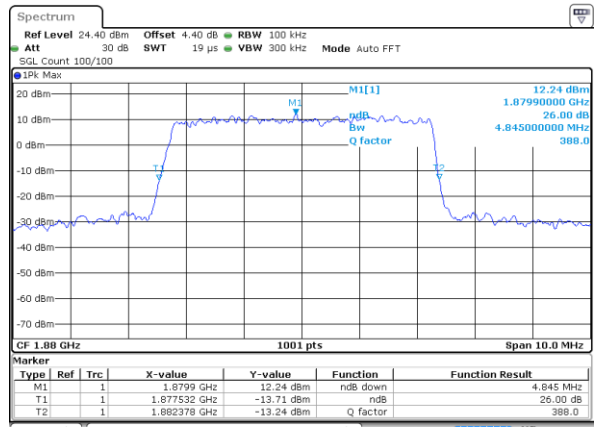
Date: 20.OCT.2017 20:10:55

Middle Channel / 5MHz / QPSK



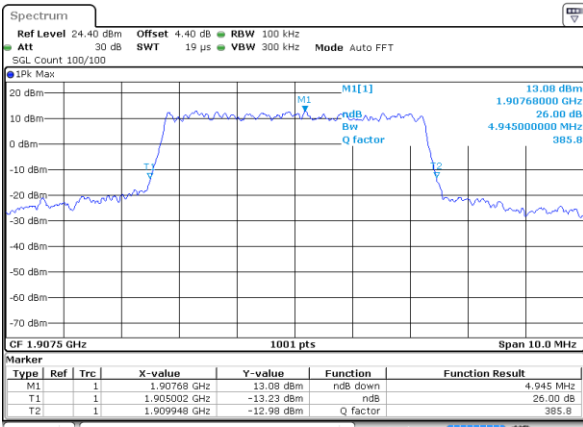
Date: 20.OCT.2017 20:17:45

Middle Channel / 5MHz / 16QAM



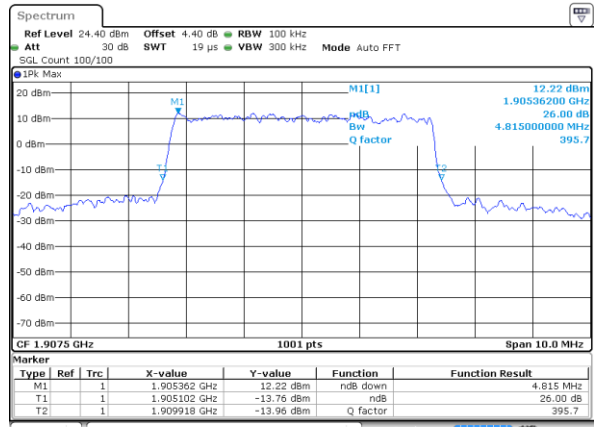
Date: 20.OCT.2017 20:15:55

Highest Channel / 5MHz / QPSK



Date: 20.OCT.2017 20:20:15

Highest Channel / 5MHz / 16QAM

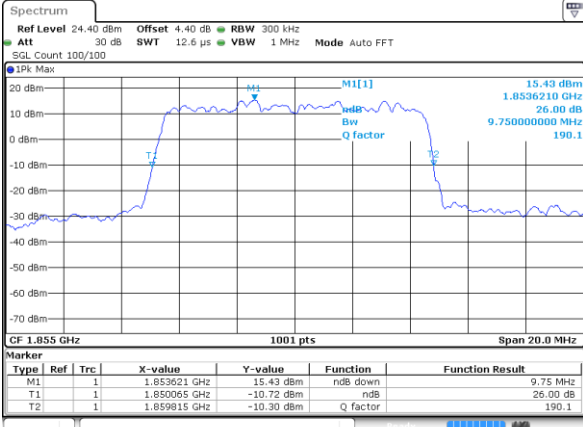


Date: 20.OCT.2017 20:20:25



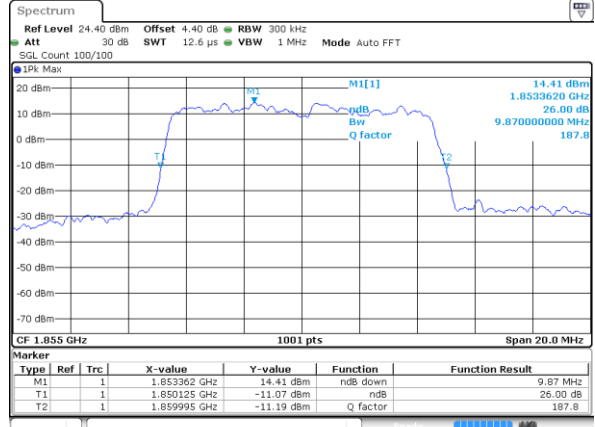
LTE Band 2

Lowest Channel / 10MHz / QPSK



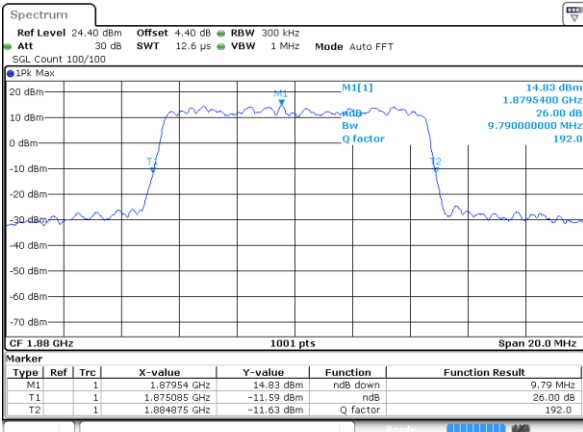
Date: 20 OCT 2017 20:27:16

Lowest Channel / 10MHz / 16QAM



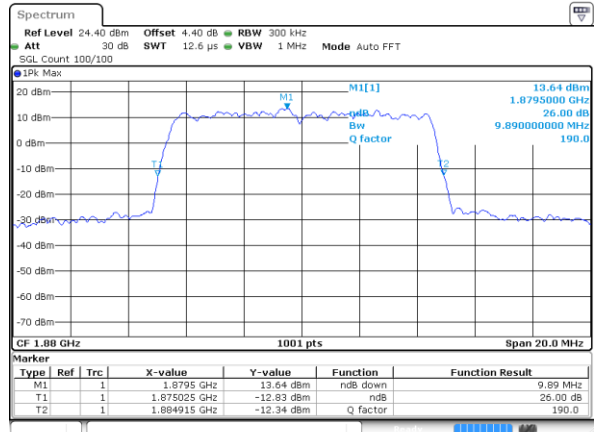
Date: 20 OCT 2017 20:27:26

Middle Channel / 10MHz / QPSK



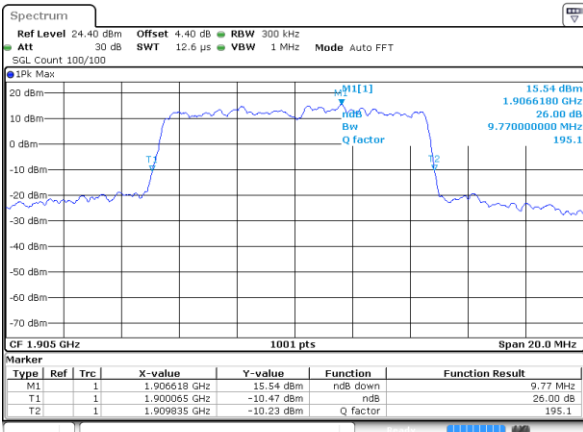
Date: 20 OCT 2017 20:34:16

Middle Channel / 10MHz / 16QAM



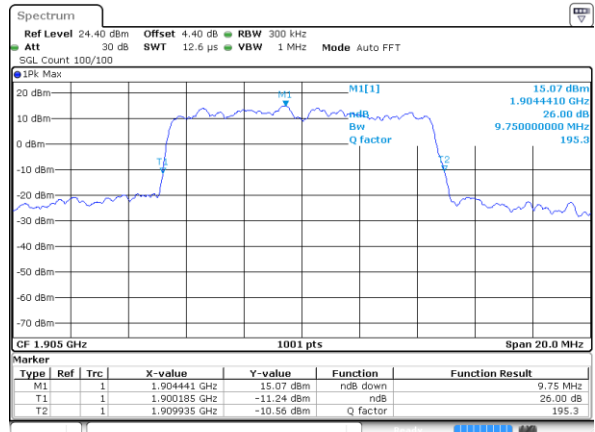
Date: 20 OCT 2017 20:34:26

Highest Channel / 10MHz / QPSK



Date: 20 OCT 2017 20:36:46

Highest Channel / 10MHz / 16QAM

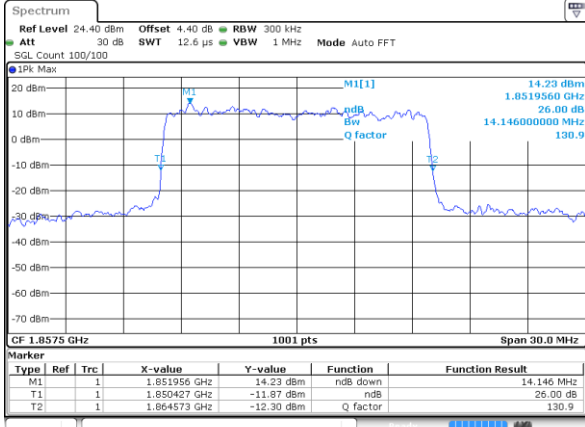


Date: 20 OCT 2017 20:36:57



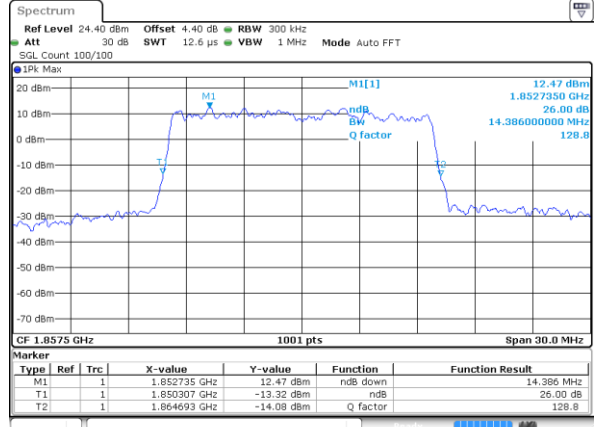
LTE Band 2

Lowest Channel / 15MHz / QPSK



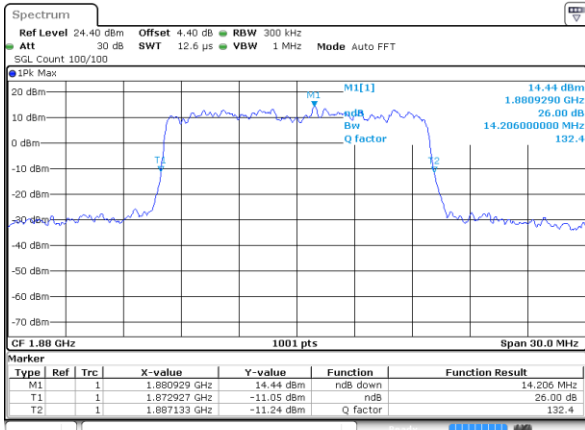
Date: 20 OCT 2017 20:43:47

Lowest Channel / 15MHz / 16QAM



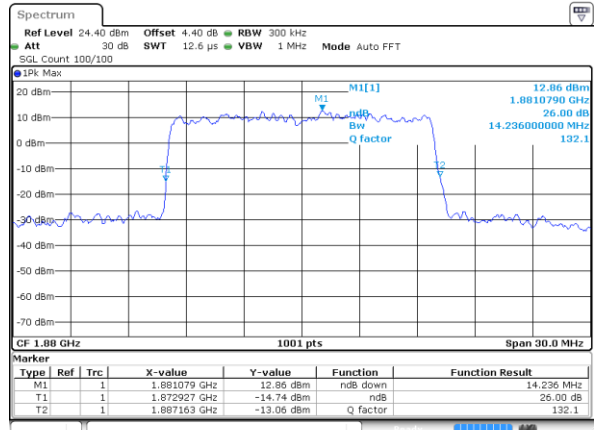
Date: 20 OCT 2017 20:43:57

Middle Channel / 15MHz / QPSK



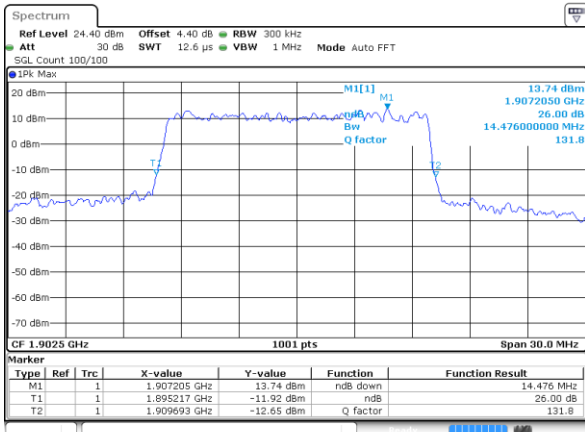
Date: 20 OCT 2017 20:50:47

Middle Channel / 15MHz / 16QAM



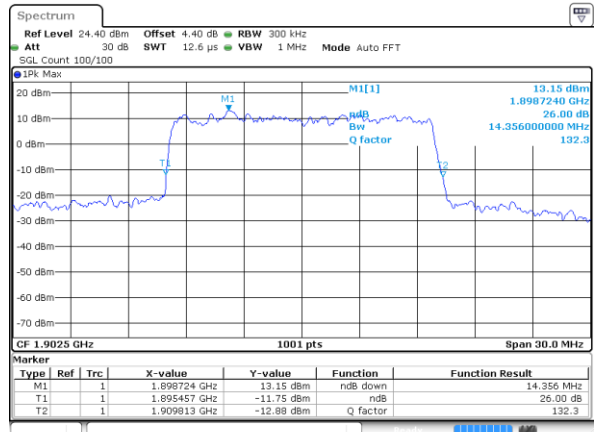
Date: 20 OCT 2017 20:50:57

Highest Channel / 15MHz / QPSK



Date: 20 OCT 2017 20:53:17

Highest Channel / 15MHz / 16QAM

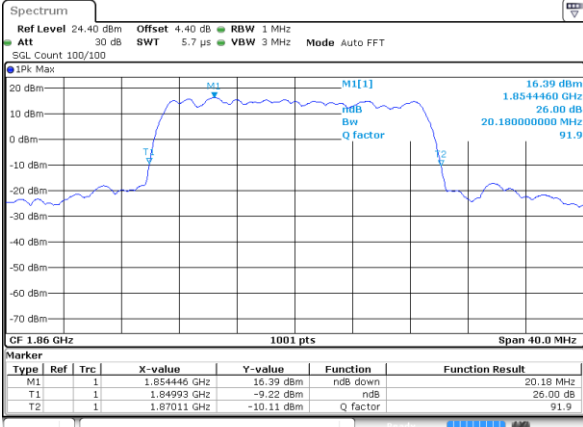


Date: 20 OCT 2017 20:53:27



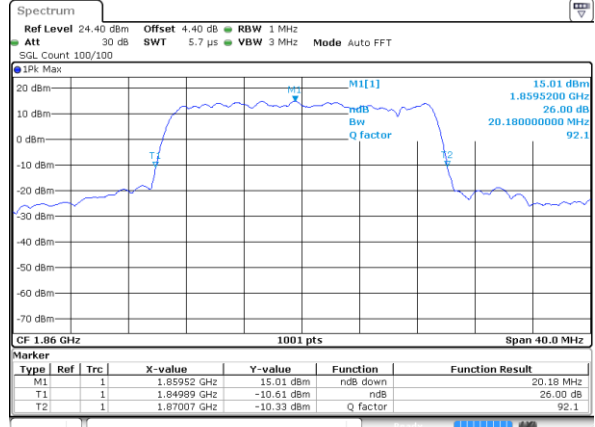
LTE Band 2

Lowest Channel / 20MHz / QPSK



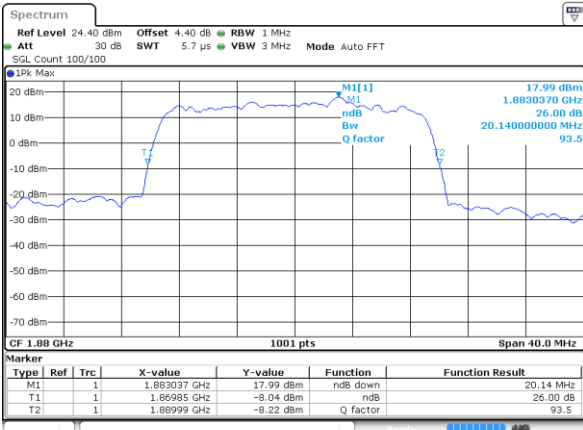
Date: 20.OCT.2017 21:00:18

Lowest Channel / 20MHz / 16QAM



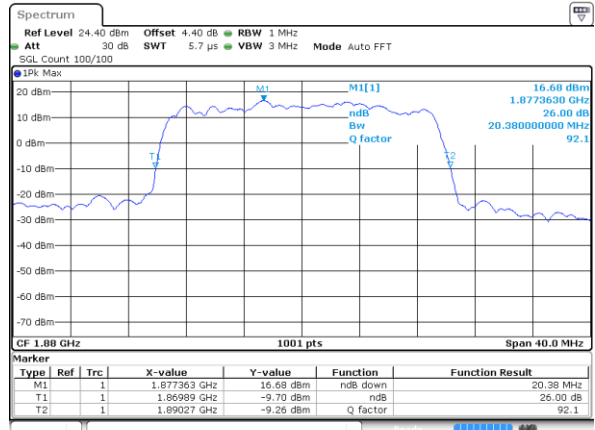
Date: 20.OCT.2017 21:00:28

Middle Channel / 20MHz / QPSK



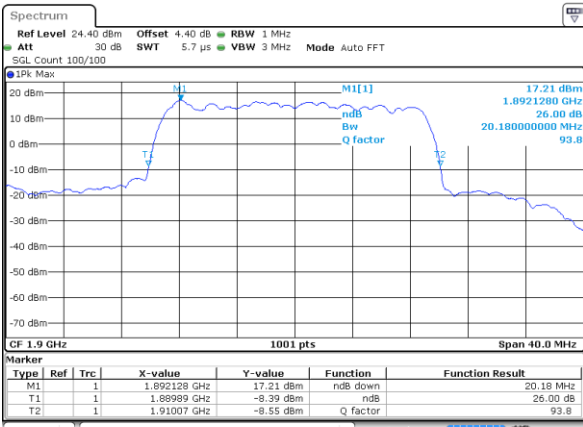
Date: 20.OCT.2017 21:07:18

Middle Channel / 20MHz / 16QAM



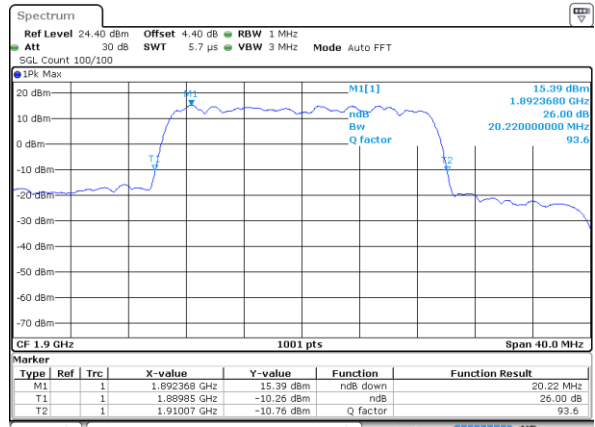
Date: 20.OCT.2017 21:07:28

Highest Channel / 20MHz / QPSK



Date: 20.OCT.2017 21:09:48

Highest Channel / 20MHz / 16QAM

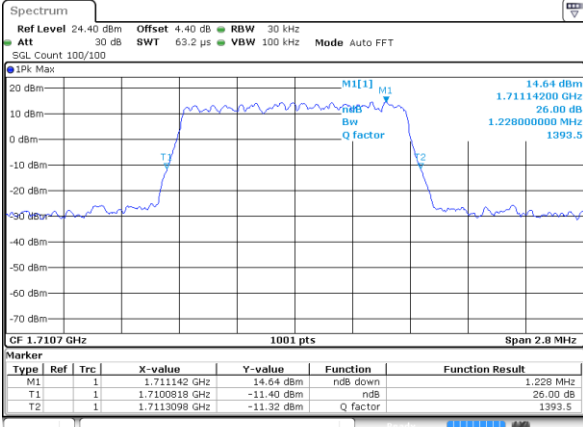


Date: 20.OCT.2017 21:09:59



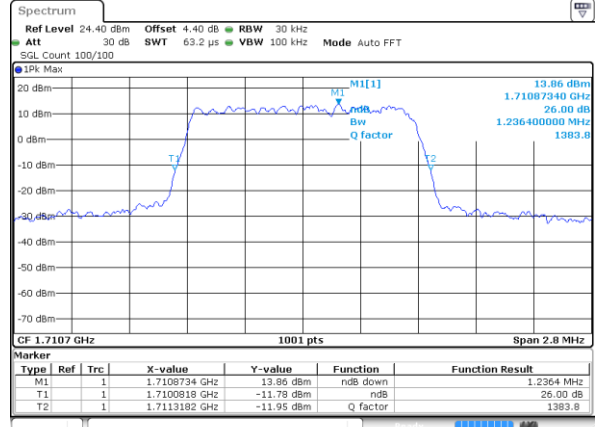
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



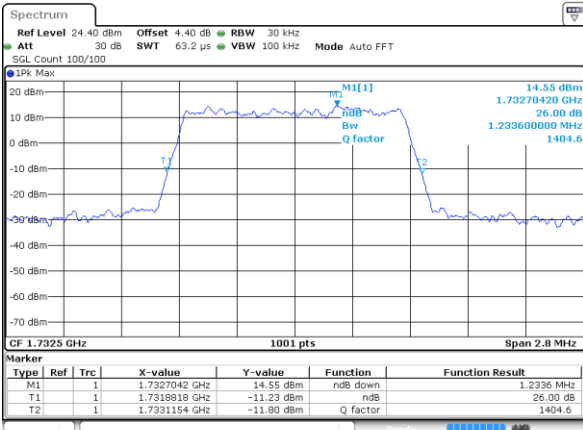
Date: 20.OCT.2017 22:09:40

Lowest Channel / 1.4MHz / 16QAM



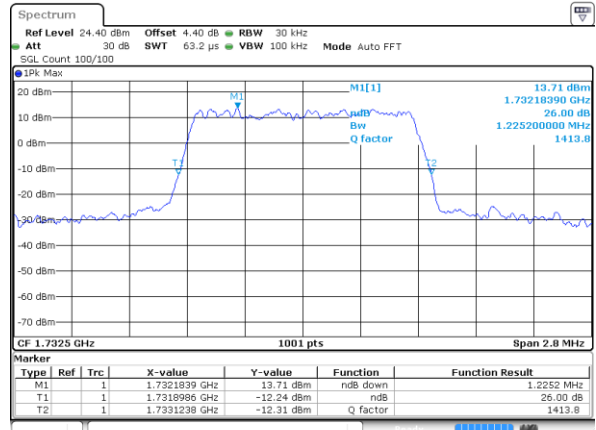
Date: 20.OCT.2017 22:09:50

Middle Channel / 1.4MHz / QPSK



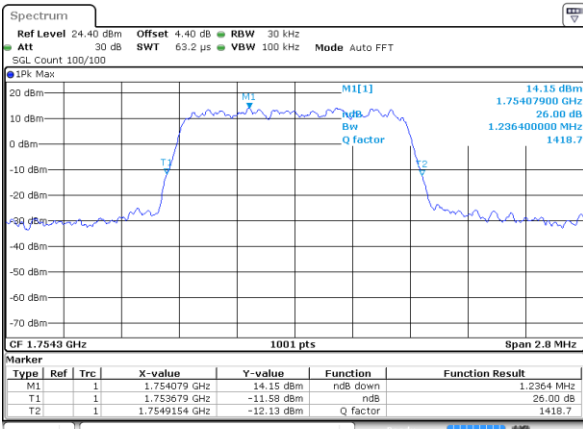
Date: 20.OCT.2017 22:16:41

Middle Channel / 1.4MHz / 16QAM



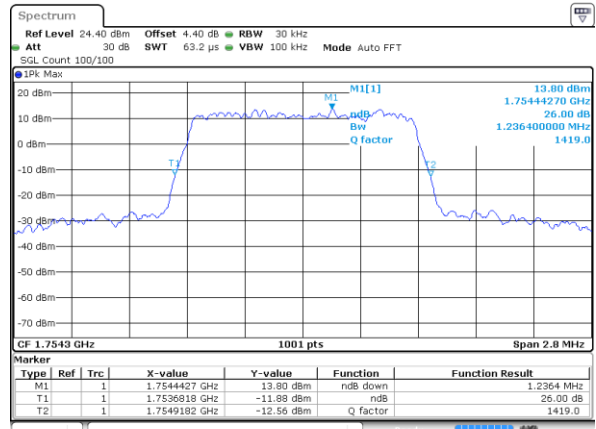
Date: 20.OCT.2017 22:16:51

Highest Channel / 1.4MHz / QPSK



Date: 20.OCT.2017 22:19:10

Highest Channel / 1.4MHz / 16QAM



Date: 20.OCT.2017 22:19:21