

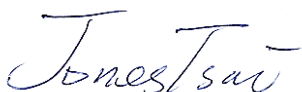
FCC RADIO TEST REPORT

FCC ID : NM82Q6U100
Equipment : Smart Hub
Model Name : 2Q6U100
Applicant : HTC Corporation
No.88, Sec. 3, Zhongxing Rd., Xindian
Dist., New Taipei City 231, Taiwan (R.O.C.)
Manufacturer : HTC Corporation
No.88, Sec. 3, Zhongxing Rd., Xindian
Dist., New Taipei City 231, Taiwan (R.O.C.)
Standard : 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Dec. 20, 2018 and testing was started from Jan. 02, 2019 and completed on Mar. 09, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG8D2018A	01	Initial issue of report	Mar. 13, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§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 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 41)		
3.6	§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 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 41)		

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§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 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 14.12 dB at 13356.000 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 41)		

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.

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, WiGig, and 5G NR.

Product Specification subjective to this standard	
Antenna Type	WWAN: <Ant. 1>: Fixed Internal PIFA Antenna <Ant. 2>: Fixed Internal Dipole Antenna <Ant. 3>: Fixed Internal PCB Antenna WLAN: <Ant. 1>: Fixed Internal PCB Antenna <Ant. 2>: Fixed Internal PIFA Antenna Bluetooth: Fixed Internal PCB Antenna WiGig: Fixed Internal Array Antenna 5G NR: Fixed Internal PCB Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH05-HY

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH10-HY

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

FCC Designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ 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.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (For Ant. 1: X plane for band 4, 12; Y plane for band 5, 7, 13, 25, 26, 41, 41 CA, 66, 71; Z plane for band 2; For Ant. 2: X plane for band 4, 5, 66; Y plane for band 2, 12, 13, 25, 26, 71) were recorded in this report.

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	2	v	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	v
	5	v	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	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	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	v
	4						v	v	v	v	v		v	v	v	v
	5				v	-	-	v	v	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	v	v	v
	25						v	v	v	v	v		v	v	v	v
	26					v	-	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
	66						v	v	v	v	v		v	v	v	v
	71						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	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	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
	5	v	v	v	v	-	-	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v	v	-	-	v	v	v			v	v	v	v
	25	v	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v	-	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v	v
	71	-	-	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		v
	4	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
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	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	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	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
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
	71	-	-	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	
	25				v			v					v		v	
	26				v		-	v					v		v	
	41	-	-		v			v					v		v	
	66				v			v					v		v	
	71	-	-		v			v					v		v	

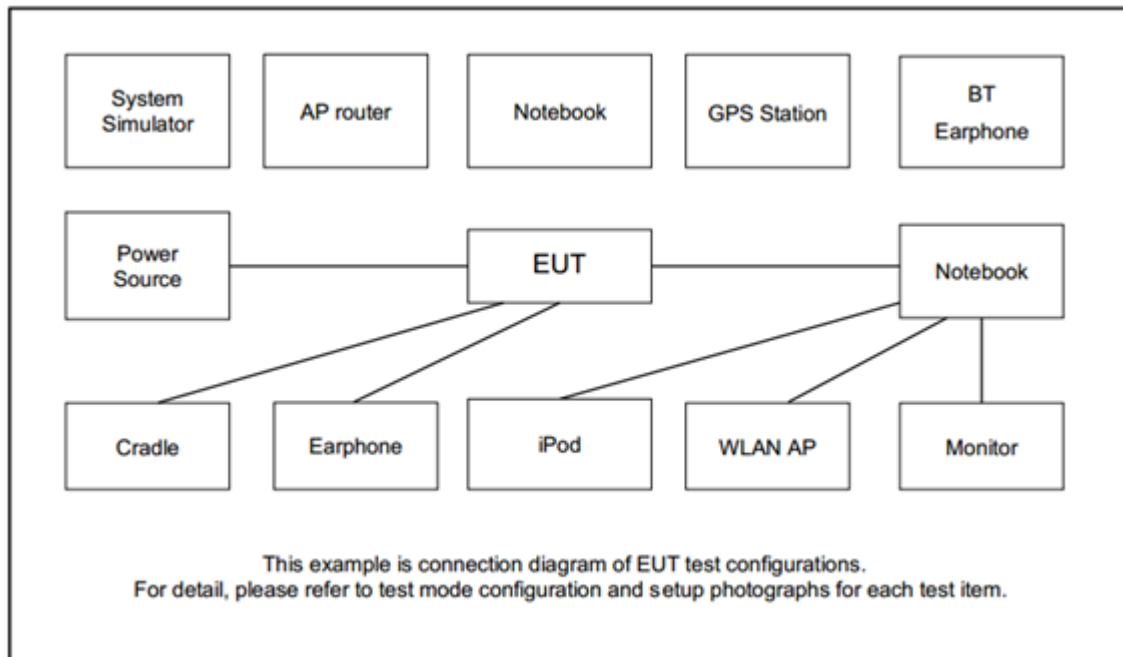


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case												v	v	v
	4	Worst Case												v	v	v
	5	Worst Case												v	v	v
	7	Worst Case												v	v	v
	12	Worst Case												v	v	v
	13	Worst Case												v	v	v
	25	Worst Case												v	v	v
	26	Worst Case												v	v	v
	41	Worst Case												v	v	v
	66	Worst Case												v	v	v
	71	Worst Case												v	v	v
Remark	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.															



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	41_CA	Worst Case																v	v	v
Remark	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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	USB Flash Drive	ADATA	ACH11	FCC DoC	Unshielded, 1.0 m	N/A

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 and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

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 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

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	829.0	836.5	844.0
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

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673	680.5	688
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668	680.5	693
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5

LTE Band 41 Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
20 + 15	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
15 + 20	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
		Channel	39849	40670	41490
	SCC	Frequency	2515.9	2598.0	2680.0
		Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	PCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
		Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
20 + 5	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
5 + 20	PCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0



LTE Band 41 Channel and Frequency List					
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

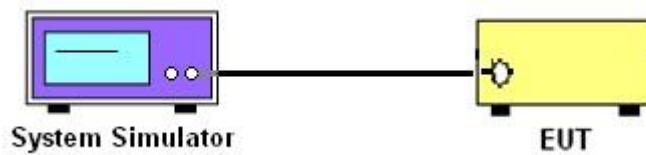
3 Conducted Test Items

3.1 Measuring Instruments

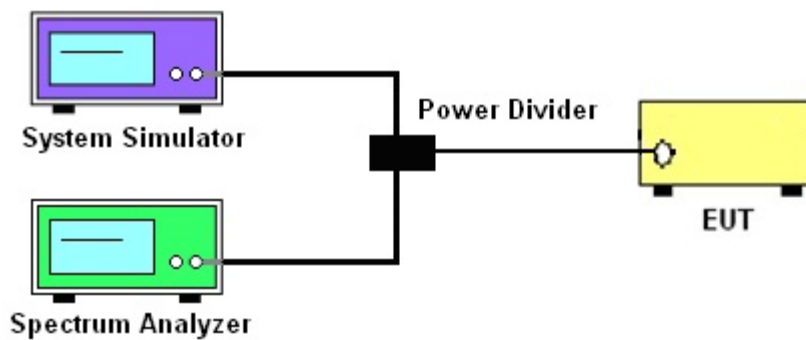
See list of measuring instruments of this test report.

3.1.1 Test Setup

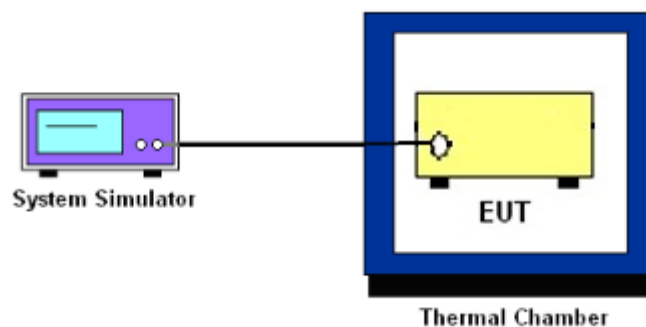
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 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 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

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

3.2.2 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.



3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 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 600MHz band and 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 than $43 + 10 \log (P)$ 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.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
8. For LTE Band 7, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.6 Conducted Spurious Emission

3.6.1 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, 41:

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.

3.6.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
10. For Band 7, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

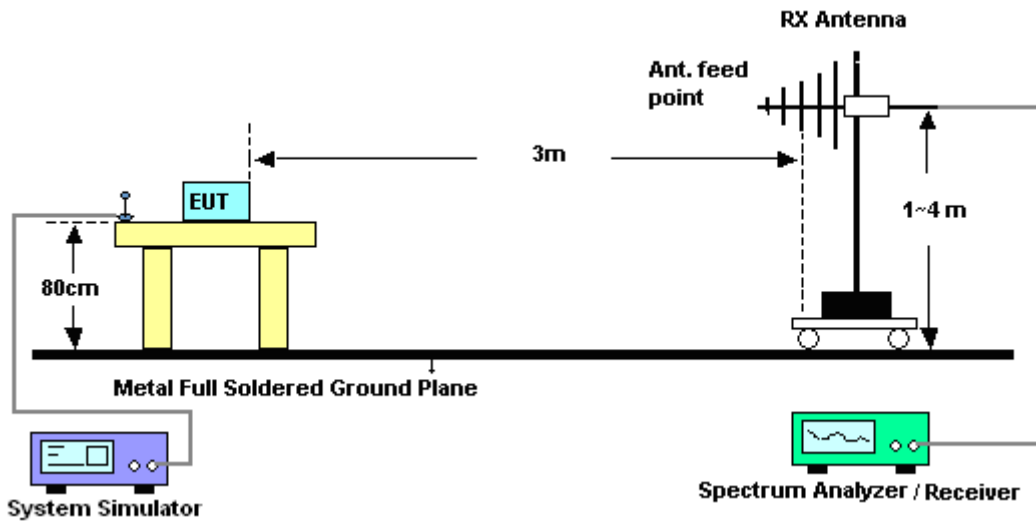
4 Radiated Test Items

4.1 Measuring Instruments

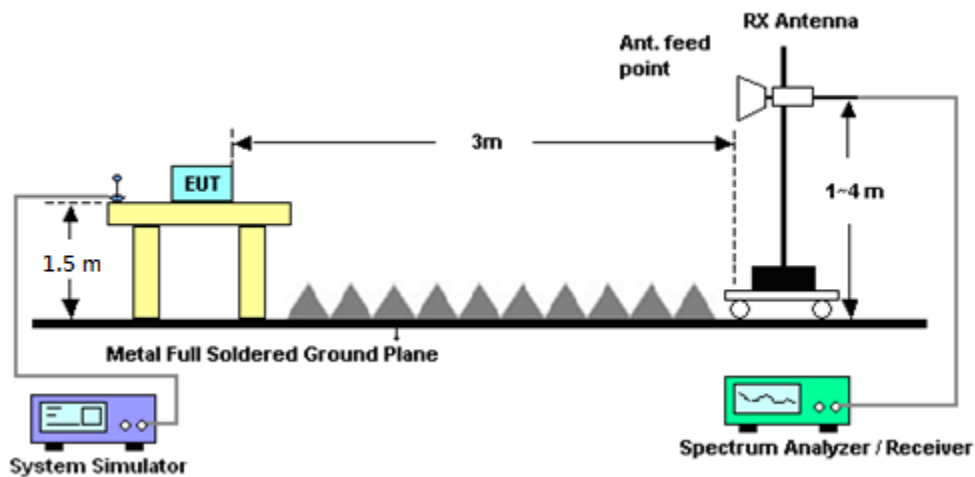
See list of measuring instruments of this test report.

4.1.1 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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, 41

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 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

11. For Band 7, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(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
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 14, 2018	Jan. 02, 2019~ Feb. 28, 2019	Oct. 13, 2019	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	6201664755	GSM / GPRS /WCDMA / LTE	Mar. 26, 2018	Jan. 02, 2019~ Feb. 28, 2019	Mar. 25, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jan. 02, 2019~ Feb. 28, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃~90℃	Aug. 29, 2018	Jan. 02, 2019~ Feb. 28, 2019	Aug. 28, 2019	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 02, 2018	Jan. 02, 2019~ Feb. 28, 2019	Oct. 01, 2019	Conducted (TH05-HY)
Coupler	Woken	0.5-18G 10dB 30W	DOM5CIW 3A1	0.5-18GHz	Feb. 21, 2018	Jan. 02, 2019~ Feb. 28, 2019	Feb. 20, 2019	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 14, 2019	Jan. 02, 2019~ Feb. 28, 2019	Jan. 13, 2020	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Jan. 04, 2019~ Mar. 09, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Jan. 04, 2019~ Mar. 09, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jan. 04, 2019~ Mar. 09, 2019	Dec. 04, 2019	Radiation (03CH10-HY)
Hygrometer	TECEPIL	DTM-303B	TP140320	N/A	Nov. 05, 2018	Jan. 04, 2019~ Mar. 09, 2019	Nov. 04, 2019	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Oct. 28, 2018	Jan. 04, 2019~ Mar. 09, 2019	Oct. 27, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Apr. 17, 2018	Jan. 04, 2019~ Mar. 09, 2019	Apr. 16, 2019	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Nov. 02, 2018	Jan. 04, 2019~ Mar. 09, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Filter	Woken	100-12750MHz SMA	0100V1H010001G	1.0G High Pass	N/A	Jan. 04, 2019~ Mar. 09, 2019	N/A	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 04, 2019~ Mar. 09, 2019	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 04, 2019~ Mar. 09, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jan. 04, 2019~ Mar. 09, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jan. 04, 2019~ Mar. 09, 2019	N/A	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz to 1GHz	Oct. 13, 2018	Jan. 04, 2019~ Mar. 09, 2019	Oct. 12, 2019	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Jan. 04, 2019~ Mar. 09, 2019	Oct. 31, 2019	Radiation (03CH10-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Jan. 04, 2019~ Mar. 09, 2019	Dec. 05, 2019	Radiation (03CH10-HY)
Filter	Wainwright	WHKX12-108 0-1200-1500- 60SS	SN2	1.2G High Pass	Sep. 16, 2018	Jan. 04, 2019~ Mar. 09, 2019	Sep. 15, 2019	Radiation (03CH10-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN4	3 GHz Highpass	Sep. 17, 2018	Jan. 04, 2019~ Mar. 09, 2019	Sep. 16, 2019	Radiation (03CH10-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.17
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.48
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.00
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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	24.15	24.10	24.16
20	1	49		23.45	23.80	23.58
20	1	99		23.96	24.07	24.04
20	50	0		23.26	23.22	23.28
20	50	24		23.13	23.17	23.22
20	50	50		23.08	23.14	23.20
20	100	0		23.13	23.16	23.23
20	1	0	16-QAM	23.37	23.38	23.33
20	1	49		23.05	23.14	22.90
20	1	99		23.24	23.38	23.32
20	50	0		22.19	22.22	22.28
20	50	24		22.13	22.17	22.24
20	50	50		22.08	22.13	22.19
20	100	0		22.11	22.16	22.21
20	1	0	64-QAM	22.34	22.33	22.27
20	1	49		21.65	21.79	22.08
20	1	99		22.19	22.30	22.29
20	50	0		21.21	21.24	21.28
20	50	24		21.13	21.19	21.25
20	50	50		21.10	21.13	21.20
20	100	0		21.14	21.18	21.24
15	1	0	QPSK	24.13	24.12	24.11
15	1	37		23.96	23.59	23.64
15	1	74		23.99	24.03	24.08
15	36	0		23.20	23.21	23.27
15	36	20		23.16	23.20	23.24
15	36	39		23.09	23.16	23.19
15	75	0		23.14	23.20	23.24
15	1	0	16-QAM	23.49	23.39	23.47
15	1	37		23.24	22.90	22.88
15	1	74		23.29	23.31	23.40
15	36	0		22.20	22.23	22.26
15	36	20		22.16	22.21	22.26
15	36	39		22.11	22.14	22.21
15	75	0		22.16	22.21	22.25
15	1	0	64-QAM	22.43	22.36	22.45
15	1	37		22.24	21.47	21.80
15	1	74		22.22	22.27	22.35
15	36	0		21.25	21.24	21.31
15	36	20		21.20	21.23	21.28
15	36	39		21.13	21.19	21.24
15	75	0		21.17	21.19	21.26



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.93	23.95	23.96
10	1	25		23.92	23.93	23.57
10	1	49		23.89	23.93	23.90
10	25	0		23.02	23.03	23.08
10	25	12		23.01	23.03	23.08
10	25	25		22.95	23.00	23.05
10	50	0		23.01	23.02	23.08
10	1	0	16-QAM	23.24	23.22	23.32
10	1	25		23.20	23.24	22.90
10	1	49		23.19	23.21	23.19
10	25	0		22.02	22.03	22.11
10	25	12		22.02	22.03	22.11
10	25	25		21.95	21.99	22.07
10	50	0		22.01	22.03	22.09
10	1	0	64-QAM	22.27	22.28	22.22
10	1	25		22.19	22.20	21.84
10	1	49		22.14	22.17	22.19
10	25	0		21.04	21.07	21.13
10	25	12		21.03	21.04	21.12
10	25	25		20.97	21.00	21.08
10	50	0		21.01	21.04	21.12
5	1	0	QPSK	23.95	23.86	23.95
5	1	12		23.96	23.95	24.02
5	1	24		23.93	23.92	23.97
5	12	0		23.09	23.03	23.08
5	12	7		23.10	23.12	23.12
5	12	13		23.05	23.07	23.12
5	25	0		23.06	23.07	23.07
5	1	0	16-QAM	23.23	23.20	23.21
5	1	12		23.27	23.28	23.35
5	1	24		23.20	23.22	23.28
5	12	0		22.10	22.04	22.12
5	12	7		22.12	22.13	22.13
5	12	13		22.06	22.09	22.15
5	25	0		22.07	22.07	22.08
5	1	0	64-QAM	22.23	22.13	22.24
5	1	12		22.23	22.22	22.27
5	1	24		22.16	22.16	22.23
5	12	0		21.14	21.07	21.15
5	12	7		21.16	21.18	21.20
5	12	13		21.10	21.12	21.20
5	25	0		21.07	21.08	21.11



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.92	23.89	24.02
3	1	8		24.00	23.99	24.07
3	1	14		23.90	23.93	24.01
3	8	0		23.04	22.96	23.08
3	8	4		23.03	23.04	23.11
3	8	7		23.02	23.03	23.09
3	15	0		23.05	23.09	23.10
3	1	0	16-QAM	23.24	23.16	23.33
3	1	8		23.29	23.32	23.39
3	1	14		23.19	23.23	23.27
3	8	0		22.13	22.05	22.15
3	8	4		22.11	22.13	22.18
3	8	7		22.08	22.10	22.16
3	15	0		22.08	22.09	22.15
3	1	0	64-QAM	22.24	22.16	22.26
3	1	8		22.25	22.26	22.32
3	1	14		22.15	22.21	22.29
3	8	0		21.11	21.06	21.19
3	8	4		21.11	21.12	21.17
3	8	7		21.09	21.10	21.15
3	15	0		21.09	21.08	21.16
1.4	1	0	QPSK	23.84	23.82	23.91
1.4	1	3		23.90	23.92	23.95
1.4	1	5		23.84	23.85	23.89
1.4	3	0		23.87	23.86	23.90
1.4	3	1		23.91	23.90	23.94
1.4	3	3		23.83	23.85	23.91
1.4	6	0		22.96	22.95	23.02
1.4	1	0	16-QAM	23.15	23.16	23.19
1.4	1	3		23.21	23.23	23.27
1.4	1	5		23.13	23.11	23.17
1.4	3	0		22.92	22.96	23.00
1.4	3	1		22.96	22.99	23.00
1.4	3	3		22.93	22.93	22.93
1.4	6	0		22.02	22.02	22.08
1.4	1	0	64-QAM	22.11	22.10	22.16
1.4	1	3		22.18	22.20	22.21
1.4	1	5		22.10	22.13	22.16
1.4	3	0		22.11	22.09	22.13
1.4	3	1		22.16	22.16	22.19
1.4	3	3		22.07	22.11	22.16
1.4	6	0		20.96	20.96	21.03



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.10	24.13	24.19
20	1	49		23.78	23.62	23.82
20	1	99		24.00	24.00	24.02
20	50	0		23.24	23.26	23.29
20	50	24		23.17	23.24	23.23
20	50	50		23.13	23.19	23.22
20	100	0		23.18	23.23	23.25
20	1	0	16-QAM	23.42	23.39	23.41
20	1	49		22.81	23.18	23.16
20	1	99		23.30	23.33	23.28
20	50	0		22.25	22.27	22.31
20	50	24		22.19	22.22	22.25
20	50	50		22.14	22.19	22.20
20	100	0		22.17	22.21	22.25
20	1	0	64-QAM	22.35	22.37	22.42
20	1	49		22.01	22.10	22.15
20	1	99		22.24	22.24	22.32
20	50	0		21.25	21.29	21.33
20	50	24		21.17	21.24	21.27
20	50	50		21.14	21.21	21.24
20	100	0		21.20	21.22	21.26
15	1	0	QPSK	24.16	24.15	24.15
15	1	37		24.04	23.59	23.19
15	1	74		24.04	24.03	24.11
15	36	0		23.25	23.26	23.29
15	36	20		23.22	23.26	23.26
15	36	39		23.16	23.20	23.20
15	75	0		23.21	23.23	23.26
15	1	0	16-QAM	23.50	23.44	23.45
15	1	37		23.33	22.46	22.88
15	1	74		23.33	23.37	23.36
15	36	0		22.25	22.27	22.29
15	36	20		22.23	22.25	22.27
15	36	39		22.16	22.19	22.22
15	75	0		22.20	22.25	22.26
15	1	0	64-QAM	22.50	22.41	22.46
15	1	37		22.23	21.47	21.89
15	1	74		22.28	22.34	22.34
15	36	0		21.29	21.30	21.32
15	36	20		21.25	21.28	21.31
15	36	39		21.19	21.24	21.27
15	75	0		21.21	21.25	21.29



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.94	24.00	23.96
10	1	25		23.92	23.95	23.59
10	1	49		23.84	23.87	23.90
10	25	0		23.04	23.04	23.09
10	25	12		23.03	23.05	23.07
10	25	25		23.01	23.00	23.04
10	50	0		23.03	23.05	23.09
10	1	0	16-QAM	23.26	23.32	23.23
10	1	25		23.22	23.24	22.84
10	1	49		23.18	23.22	23.22
10	25	0		22.06	22.08	22.08
10	25	12		22.04	22.07	22.08
10	25	25		21.98	22.01	22.05
10	50	0		22.02	22.05	22.08
10	1	0	64-QAM	22.27	22.25	22.27
10	1	25		22.19	22.20	21.81
10	1	49		22.13	22.19	22.18
10	25	0		21.06	21.07	21.11
10	25	12		21.06	21.07	21.11
10	25	25		21.00	21.03	21.08
10	50	0		21.05	21.08	21.10
5	1	0	QPSK	23.91	23.86	23.97
5	1	12		23.94	23.96	23.98
5	1	24		23.87	23.90	23.99
5	12	0		23.06	23.01	23.04
5	12	7		23.09	23.11	23.07
5	12	13		23.03	23.06	23.07
5	25	0		23.05	23.06	23.03
5	1	0	16-QAM	23.21	23.15	23.18
5	1	12		23.25	23.26	23.26
5	1	24		23.17	23.18	23.27
5	12	0		22.08	22.04	22.08
5	12	7		22.12	22.10	22.09
5	12	13		22.07	22.08	22.08
5	25	0		22.07	22.06	22.04
5	1	0	64-QAM	22.23	22.15	22.21
5	1	12		22.21	22.24	22.24
5	1	24		22.15	22.19	22.21
5	12	0		21.15	21.08	21.09
5	12	7		21.19	21.17	21.13
5	12	13		21.11	21.14	21.14
5	25	0		21.08	21.08	21.08



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.86	23.87	23.95
3	1	8		23.89	24.02	24.03
3	1	14		23.82	23.94	23.97
3	8	0		23.01	22.99	23.00
3	8	4		23.04	23.08	23.03
3	8	7		22.98	23.03	23.04
3	15	0		23.00	23.07	23.02
3	1	0	16-QAM	23.16	23.20	23.17
3	1	8		23.20	23.30	23.28
3	1	14		23.12	23.24	23.24
3	8	0		22.03	22.08	22.07
3	8	4		22.07	22.15	22.08
3	8	7		22.02	22.13	22.11
3	15	0		22.02	22.09	22.07
3	1	0	64-QAM	22.18	22.17	22.19
3	1	8		22.16	22.25	22.29
3	1	14		22.10	22.22	22.18
3	8	0		21.10	21.06	21.09
3	8	4		21.14	21.14	21.11
3	8	7		21.06	21.12	21.11
3	15	0		21.03	21.12	21.06
1.4	1	0	QPSK	23.84	23.81	23.84
1.4	1	3		23.91	23.91	23.96
1.4	1	5		23.79	23.82	23.88
1.4	3	0		23.85	23.90	23.88
1.4	3	1		23.91	23.92	23.96
1.4	3	3		23.89	23.88	23.92
1.4	6	0		22.96	22.98	22.99
1.4	1	0	16-QAM	23.15	23.14	23.13
1.4	1	3		23.22	23.22	23.23
1.4	1	5		23.12	23.14	23.14
1.4	3	0		22.94	22.94	22.96
1.4	3	1		22.99	23.00	22.98
1.4	3	3		22.92	22.93	22.94
1.4	6	0		22.03	22.04	22.04
1.4	1	0	64-QAM	22.12	22.13	22.11
1.4	1	3		22.20	22.17	22.21
1.4	1	5		22.08	22.11	22.11
1.4	3	0		22.11	22.13	22.08
1.4	3	1		22.16	22.18	22.17
1.4	3	3		22.10	22.12	22.10
1.4	6	0		20.98	20.97	21.01



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.29	24.27	24.28
20	1	49		24.06	24.05	24.07
20	1	99		24.01	24.03	24.07
20	50	0		23.30	23.31	23.30
20	50	24		23.24	23.26	23.23
20	50	50		23.18	23.19	23.21
20	100	0		23.22	23.24	23.23
20	1	0	16-QAM	23.50	23.42	23.50
20	1	49		23.35	23.35	23.41
20	1	99		23.33	23.34	23.39
20	50	0		22.30	22.29	22.31
20	50	24		22.23	22.21	22.25
20	50	50		22.19	22.17	22.21
20	100	0		22.21	22.20	22.23
20	1	0	64-QAM	22.42	22.49	22.46
20	1	49		22.31	22.30	22.36
20	1	99		22.30	22.33	22.34
20	50	0		21.32	21.30	21.32
20	50	24		21.25	21.23	21.25
20	50	50		21.20	21.18	21.23
20	100	0		21.24	21.25	21.25
15	1	0	QPSK	24.24	24.28	24.27
15	1	37		24.04	24.06	24.13
15	1	74		24.06	24.11	24.17
15	36	0		23.28	23.29	23.33
15	36	20		23.25	23.27	23.30
15	36	39		23.17	23.20	23.25
15	75	0		23.23	23.25	23.29
15	1	0	16-QAM	23.47	23.46	23.50
15	1	37		23.35	23.36	23.41
15	1	74		23.38	23.41	23.46
15	36	0		22.27	22.28	22.32
15	36	20		22.24	22.25	22.30
15	36	39		22.17	22.19	22.24
15	75	0		22.22	22.23	22.28
15	1	0	64-QAM	22.45	22.45	22.50
15	1	37		22.32	22.37	22.39
15	1	74		22.36	22.37	22.46
15	36	0		21.31	21.31	21.36
15	36	20		21.26	21.29	21.33
15	36	39		21.20	21.22	21.27
15	75	0		21.23	21.25	21.29



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.03	24.08	24.10
10	1	25		23.98	24.02	24.03
10	1	49		23.90	23.92	23.97
10	25	0		23.11	23.12	23.17
10	25	12		23.08	23.11	23.14
10	25	25		23.04	23.05	23.12
10	50	0		23.08	23.10	23.15
10	1	0	16-QAM	23.40	23.37	23.46
10	1	25		23.31	23.31	23.37
10	1	49		23.27	23.24	23.30
10	25	0		22.10	22.11	22.17
10	25	12		22.08	22.10	22.16
10	25	25		22.03	22.09	22.11
10	50	0		22.07	22.07	22.16
10	1	0	64-QAM	22.28	22.28	22.42
10	1	25		22.27	22.26	22.34
10	1	49		22.18	22.24	22.29
10	25	0		21.11	21.12	21.18
10	25	12		21.10	21.10	21.16
10	25	25		21.06	21.04	21.13
10	50	0		21.10	21.11	21.15
5	1	0	QPSK	23.92	23.94	23.97
5	1	12		24.02	24.05	24.03
5	1	24		23.95	23.97	24.00
5	12	0		23.12	23.12	23.12
5	12	7		23.16	23.17	23.19
5	12	13		23.11	23.14	23.15
5	25	0		23.12	23.13	23.15
5	1	0	16-QAM	23.24	23.22	23.28
5	1	12		23.35	23.34	23.39
5	1	24		23.28	23.25	23.29
5	12	0		22.16	22.09	22.12
5	12	7		22.18	22.18	22.21
5	12	13		22.11	22.11	22.17
5	25	0		22.12	22.12	22.15
5	1	0	64-QAM	22.21	22.21	22.30
5	1	12		22.29	22.28	22.34
5	1	24		22.26	22.27	22.29
5	12	0		21.18	21.14	21.17
5	12	7		21.22	21.23	21.24
5	12	13		21.18	21.14	21.19
5	25	0		21.14	21.18	21.17



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.98	23.98	24.01
3	1	8		24.07	24.06	24.11
3	1	14		24.01	24.02	24.03
3	8	0		23.10	23.04	23.09
3	8	4		23.11	23.10	23.16
3	8	7		23.07	23.08	23.12
3	15	0		23.13	23.16	23.18
3	1	0	16-QAM	23.31	23.25	23.34
3	1	8		23.37	23.39	23.44
3	1	14		23.30	23.32	23.36
3	8	0		22.15	22.11	22.19
3	8	4		22.17	22.17	22.22
3	8	7		22.14	22.14	22.18
3	15	0		22.13	22.13	22.19
3	1	0	64-QAM	22.18	22.26	22.28
3	1	8		22.33	22.35	22.40
3	1	14		22.29	22.28	22.32
3	8	0		21.15	21.09	21.17
3	8	4		21.16	21.18	21.23
3	8	7		21.14	21.13	21.18
3	15	0		21.14	21.13	21.18
1.4	1	0	QPSK	23.81	23.93	23.85
1.4	1	3		23.96	23.99	24.05
1.4	1	5		23.89	23.88	23.95
1.4	3	0		23.92	23.96	23.86
1.4	3	1		23.95	23.98	23.92
1.4	3	3		23.90	23.90	23.93
1.4	6	0		22.98	23.01	23.00
1.4	1	0	16-QAM	23.15	23.19	23.21
1.4	1	3		23.29	23.26	23.37
1.4	1	5		23.22	23.20	23.28
1.4	3	0		22.99	23.02	22.98
1.4	3	1		23.05	23.02	23.03
1.4	3	3		22.97	22.96	23.00
1.4	6	0		22.05	22.04	22.07
1.4	1	0	64-QAM	22.12	22.19	22.22
1.4	1	3		22.25	22.23	22.34
1.4	1	5		22.18	22.17	22.24
1.4	3	0		22.13	22.16	22.14
1.4	3	1		22.20	22.22	22.21
1.4	3	3		22.15	22.12	22.20
1.4	6	0		21.00	21.02	20.99



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.17	24.11	24.21
10	1	25		23.64	23.90	23.33
10	1	49		24.07	23.99	24.03
10	25	0		23.24	23.29	23.22
10	25	12		23.19	23.21	23.18
10	25	25		23.09	23.14	23.07
10	50	0		23.20	23.21	23.23
10	1	0	16-QAM	23.36	23.36	23.28
10	1	25		23.02	22.64	23.04
10	1	49		23.23	23.21	23.23
10	25	0		22.22	22.23	22.27
10	25	12		22.23	22.17	22.20
10	25	25		22.10	22.13	22.05
10	50	0		22.21	22.17	22.17
10	1	0	64-QAM	22.23	22.40	22.27
10	1	25		22.08	21.88	21.89
10	1	49		22.35	22.22	21.25
10	25	0		21.27	21.21	21.22
10	25	12		21.23	21.19	21.20
10	25	25		21.12	21.06	21.09
10	50	0		21.21	21.18	21.19
5	1	0	QPSK	24.00	24.06	24.06
5	1	12		24.07	24.15	24.10
5	1	24		24.11	24.07	24.03
5	12	0		23.22	23.20	23.19
5	12	7		23.32	23.27	23.25
5	12	13		23.22	23.22	23.18
5	25	0		23.21	23.19	23.13
5	1	0	16-QAM	23.30	23.26	23.31
5	1	12		23.34	23.40	23.36
5	1	24		23.29	23.34	23.22
5	12	0		22.16	22.18	22.16
5	12	7		22.30	22.26	22.27
5	12	13		22.27	22.20	22.19
5	25	0		22.24	22.23	22.19
5	1	0	64-QAM	22.26	22.34	22.24
5	1	12		22.32	22.33	22.40
5	1	24		22.27	22.26	22.24
5	12	0		21.23	21.21	21.20
5	12	7		21.34	21.29	21.33
5	12	13		21.31	21.32	21.35
5	25	0		21.27	21.30	21.31



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	24.07	24.09	24.06
3	1	8		24.20	24.19	24.13
3	1	14		24.14	24.16	24.10
3	8	0		23.15	23.17	23.17
3	8	4		23.29	23.18	23.20
3	8	7		23.24	23.18	23.16
3	15	0		23.24	23.23	23.21
3	1	0	16-QAM	23.33	23.36	23.34
3	1	8		23.35	23.49	23.43
3	1	14		23.38	23.42	23.26
3	8	0		22.24	22.24	22.25
3	8	4		22.26	22.23	22.30
3	8	7		22.30	22.28	22.21
3	15	0		22.29	22.22	22.21
3	1	0	64-QAM	22.27	22.29	22.26
3	1	8		22.36	22.45	22.39
3	1	14		22.30	22.33	22.36
3	8	0		21.19	21.23	21.22
3	8	4		21.23	21.25	21.27
3	8	7		21.26	21.24	21.22
3	15	0		21.27	21.26	21.25
1.4	1	0	QPSK	23.95	23.98	24.00
1.4	1	3		24.13	24.10	24.07
1.4	1	5		23.95	24.04	24.02
1.4	3	0		24.00	24.02	24.07
1.4	3	1		24.07	24.02	24.08
1.4	3	3		24.02	24.06	24.04
1.4	6	0		23.12	23.18	23.13
1.4	1	0	16-QAM	23.25	23.24	23.25
1.4	1	3		23.40	23.26	23.34
1.4	1	5		23.24	23.27	23.20
1.4	3	0		23.03	23.08	23.09
1.4	3	1		23.07	23.10	23.12
1.4	3	3		23.07	23.10	23.06
1.4	6	0		22.17	22.16	22.24
1.4	1	0	64-QAM	22.21	22.25	22.25
1.4	1	3		22.35	22.38	22.38
1.4	1	5		22.21	22.28	22.17
1.4	3	0		22.13	22.15	22.16
1.4	3	1		22.19	22.21	22.22
1.4	3	3		22.15	22.20	22.18
1.4	6	0		21.18	21.22	21.15



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.09	24.13	24.11
20	1	49		23.77	23.87	23.45
20	1	99		23.98	24.03	23.96
20	50	0		23.16	23.22	23.17
20	50	24		23.15	23.19	23.07
20	50	50		23.15	23.21	23.16
20	100	0		23.16	23.21	23.03
20	1	0	16-QAM	23.36	23.43	23.38
20	1	49		22.91	22.89	22.83
20	1	99		23.46	23.44	23.46
20	50	0		22.17	22.25	22.18
20	50	24		22.17	22.22	22.16
20	50	50		22.19	22.23	22.16
20	100	0		22.16	22.21	22.15
20	1	0	64-QAM	22.29	22.33	22.26
20	1	49		22.11	22.16	21.96
20	1	99		22.39	22.35	22.37
20	50	0		21.19	21.23	21.20
20	50	24		21.20	21.22	21.18
20	50	50		21.18	21.23	21.19
20	100	0		21.20	21.23	21.17
15	1	0	QPSK	24.00	24.03	23.88
15	1	37		23.54	23.57	23.09
15	1	74		24.06	24.08	24.03
15	36	0		23.13	23.18	23.02
15	36	20		23.15	23.21	23.13
15	36	39		23.14	23.18	23.14
15	75	0		23.15	23.20	23.05
15	1	0	16-QAM	23.40	23.41	23.21
15	1	37		22.57	22.92	22.45
15	1	74		23.46	23.45	23.46
15	36	0		22.13	22.21	22.07
15	36	20		22.17	22.22	22.14
15	36	39		22.16	22.21	22.14
15	75	0		22.14	22.20	22.13
15	1	0	64-QAM	22.33	22.34	22.11
15	1	37		21.78	21.85	21.36
15	1	74		22.35	22.39	22.39
15	36	0		21.19	21.22	21.15
15	36	20		21.19	21.24	21.17
15	36	39		21.18	21.23	21.17
15	75	0		21.17	21.20	21.15



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.82	23.87	23.56
10	1	25		23.43	23.55	23.45
10	1	49		23.84	23.95	23.86
10	25	0		22.92	23.02	22.93
10	25	12		22.96	23.01	22.95
10	25	25		22.92	23.01	22.93
10	50	0		22.94	23.01	22.94
10	1	0	16-QAM	23.23	23.23	22.84
10	1	25		22.83	22.90	22.80
10	1	49		23.24	23.26	23.24
10	25	0		21.94	22.02	21.94
10	25	12		21.96	22.02	21.99
10	25	25		21.94	22.02	21.95
10	50	0		21.96	22.02	21.95
10	1	0	64-QAM	22.16	22.22	21.72
10	1	25		21.67	21.85	21.74
10	1	49		22.16	22.23	22.11
10	25	0		20.94	21.04	20.97
10	25	12		20.98	21.03	20.97
10	25	25		20.97	21.02	20.96
10	50	0		20.97	21.03	20.96
5	1	0	QPSK	23.79	23.85	23.74
5	1	12		23.40	23.95	23.90
5	1	24		23.81	23.93	23.90
5	12	0		22.89	22.99	22.97
5	12	7		22.93	23.05	23.02
5	12	13		22.89	23.06	22.98
5	25	0		22.91	23.01	22.99
5	1	0	16-QAM	23.20	23.23	23.00
5	1	12		22.80	23.34	23.26
5	1	24		23.21	23.27	23.28
5	12	0		21.91	22.06	22.03
5	12	7		21.93	22.07	22.05
5	12	13		21.91	22.07	21.99
5	25	0		21.93	22.04	22.01
5	1	0	64-QAM	22.13	22.14	21.86
5	1	12		21.64	22.26	22.18
5	1	24		22.13	22.21	22.20
5	12	0		20.91	21.10	21.05
5	12	7		20.95	21.11	21.09
5	12	13		20.94	21.15	21.04
5	25	0		20.94	21.04	21.01



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.03	23.99	23.97
10	1	25		23.62	23.61	23.59
10	1	49		23.92	23.89	23.92
10	25	0		23.10	23.11	23.11
10	25	12		23.11	23.10	23.07
10	25	25		23.06	23.08	23.06
10	50	0		23.11	23.12	23.11
10	1	0	16-QAM	23.16	23.16	23.23
10	1	25		22.86	22.88	22.91
10	1	49		23.35	23.22	23.22
10	25	0		22.11	22.10	22.10
10	25	12		22.10	22.11	22.12
10	25	25		22.07	22.07	22.04
10	50	0		22.09	22.10	22.10
10	1	0	64-QAM	22.15	22.18	22.19
10	1	25		21.84	21.86	21.88
10	1	49		22.31	22.21	22.18
10	25	0		21.11	21.11	21.12
10	25	12		21.11	21.12	21.12
10	25	25		21.09	21.10	21.08
10	50	0		21.11	21.11	21.11
5	1	0	QPSK	23.89	23.89	23.87
5	1	12		24.00	24.00	24.01
5	1	24		23.97	23.94	23.95
5	12	0		23.06	23.05	23.05
5	12	7		23.15	23.15	23.14
5	12	13		23.12	23.13	23.12
5	25	0		23.11	23.12	23.10
5	1	0	16-QAM	23.12	23.16	23.13
5	1	12		23.22	23.27	23.24
5	1	24		23.23	23.21	23.23
5	12	0		22.05	22.06	22.05
5	12	7		22.17	22.19	22.14
5	12	13		22.12	22.14	22.12
5	25	0		22.12	22.13	22.10
5	1	0	64-QAM	22.10	22.13	22.14
5	1	12		22.18	22.26	22.20
5	1	24		22.21	22.18	22.15
5	12	0		21.09	21.12	21.10
5	12	7		21.20	21.21	21.20
5	12	13		21.19	21.18	21.19
5	25	0		21.15	21.13	21.13



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.91	23.94	23.94
3	1	8		24.00	24.02	24.01
3	1	14		24.01	24.01	24.00
3	8	0		23.02	23.04	23.00
3	8	4		23.11	23.10	23.09
3	8	7		23.08	23.07	23.04
3	15	0		23.13	23.11	23.10
3	1	0	16-QAM	23.15	23.20	23.22
3	1	8		23.31	23.31	23.31
3	1	14		23.27	23.27	23.20
3	8	0		22.10	22.09	22.07
3	8	4		22.16	22.18	22.15
3	8	7		22.13	22.14	22.11
3	15	0		22.12	22.13	22.12
3	1	0	64-QAM	22.16	22.13	22.15
3	1	8		22.23	22.29	22.24
3	1	14		22.24	22.24	22.21
3	8	0		21.10	21.11	21.07
3	8	4		21.17	21.17	21.15
3	8	7		21.16	21.13	21.10
3	15	0		21.13	21.15	21.10
1.4	1	0	QPSK	23.83	23.84	23.84
1.4	1	3		23.94	23.98	23.95
1.4	1	5		23.89	23.87	23.84
1.4	3	0		23.89	23.84	23.81
1.4	3	1		23.94	23.94	23.87
1.4	3	3		23.88	23.88	23.88
1.4	6	0		23.00	23.01	22.95
1.4	1	0	16-QAM	23.07	23.09	23.03
1.4	1	3		23.22	23.24	23.19
1.4	1	5		23.14	23.12	23.12
1.4	3	0		22.97	22.89	22.89
1.4	3	1		23.01	23.01	22.90
1.4	3	3		22.94	22.96	22.93
1.4	6	0		22.04	22.07	22.00
1.4	1	0	64-QAM	22.06	22.06	22.03
1.4	1	3		22.17	22.21	22.16
1.4	1	5		22.11	22.09	22.07
1.4	3	0		22.08	22.04	22.00
1.4	3	1		22.13	22.17	22.09
1.4	3	3		22.11	22.13	22.07
1.4	6	0		20.98	21.02	20.93



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		23.49	
10	1	25			23.60	
10	1	49			23.92	
10	25	0			22.60	
10	25	12			23.09	
10	25	25			23.04	
10	50	0			23.09	
10	1	0	16-QAM	-	22.75	-
10	1	25			22.85	
10	1	49			23.18	
10	25	0			21.75	
10	25	12			22.11	
10	25	25			22.04	
10	50	0			22.10	
10	1	0	64-QAM		21.73	
10	1	25			21.83	
10	1	49			22.18	
10	25	0			20.77	
10	25	12			21.13	
10	25	25			21.05	
10	50	0			21.13	
5	1	0	QPSK	23.50	23.21	23.81
5	1	12		23.06	23.87	23.88
5	1	24		23.90	23.89	23.91
5	12	0		22.16	23.06	23.07
5	12	7		22.27	23.09	23.10
5	12	13		23.05	23.12	23.10
5	25	0		22.44	23.07	23.07
5	1	0	16-QAM	22.74	22.46	23.25
5	1	12		22.33	23.26	23.27
5	1	24		23.25	23.26	23.26
5	12	0		21.29	22.08	22.08
5	12	7		21.37	22.10	22.12
5	12	13		22.11	22.14	22.11
5	25	0		21.63	22.08	22.07
5	1	0	64-QAM	21.71	21.43	22.22
5	1	12		21.30	22.23	22.22
5	1	24		22.22	22.21	22.21
5	12	0		20.36	21.12	21.12
5	12	7		20.45	21.17	21.15
5	12	13		21.15	21.16	21.17
5	25	0		20.66	21.10	21.08



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.13	24.23	24.17
15	1	37		23.67	23.72	23.22
15	1	74		24.18	24.22	24.06
15	36	0		23.37	23.43	23.37
15	36	20		23.32	23.38	23.33
15	36	39		23.28	23.31	23.25
15	75	0		23.33	23.37	22.62
15	1	0	16-QAM	23.43	23.45	23.42
15	1	37		22.59	22.66	22.91
15	1	74		23.50	23.50	23.43
15	36	0		22.38	22.40	22.38
15	36	20		22.34	22.37	22.35
15	36	39		22.28	22.30	22.25
15	75	0		22.34	22.36	22.26
15	1	0	64-QAM	22.38	22.46	22.45
15	1	37		21.85	21.59	21.54
15	1	74		22.46	22.45	22.35
15	36	0		21.37	21.46	21.39
15	36	20		21.36	21.40	21.35
15	36	39		21.30	21.32	21.28
15	75	0		21.33	21.36	20.97
10	1	0	QPSK	23.96	24.09	24.13
10	1	25		23.62	23.71	23.65
10	1	49		24.04	24.05	24.00
10	25	0		23.15	23.21	23.16
10	25	12		23.15	23.18	23.15
10	25	25		23.09	23.13	23.07
10	50	0		23.14	23.17	23.13
10	1	0	16-QAM	23.31	23.40	23.47
10	1	25		22.99	23.07	22.98
10	1	49		23.39	23.42	23.31
10	25	0		22.15	22.21	22.17
10	25	12		22.14	22.20	22.14
10	25	25		22.09	22.14	22.08
10	50	0		22.13	22.18	22.15
10	1	0	64-QAM	22.18	22.33	22.41
10	1	25		21.84	21.94	21.96
10	1	49		22.36	22.30	22.18
10	25	0		21.16	21.21	21.19
10	25	12		21.16	21.20	21.16
10	25	25		21.09	21.15	21.10
10	50	0		21.14	21.19	21.15



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.87	23.96	23.98
5	1	12		23.99	24.09	24.01
5	1	24		23.98	24.08	23.81
5	12	0		23.10	23.16	23.10
5	12	7		23.20	23.25	23.15
5	12	13		23.13	23.21	23.09
5	25	0		23.15	23.16	23.08
5	1	0	16-QAM	23.21	23.34	23.29
5	1	12		23.31	23.44	23.37
5	1	24		23.32	23.40	23.21
5	12	0		22.09	22.19	22.12
5	12	7		22.21	22.28	22.16
5	12	13		22.16	22.23	22.10
5	25	0		22.15	22.16	22.08
5	1	0	64-QAM	22.17	22.29	22.20
5	1	12		22.26	22.33	22.30
5	1	24		22.19	22.32	22.14
5	12	0		21.16	21.22	21.15
5	12	7		21.22	21.31	21.21
5	12	13		21.22	21.25	21.16
5	25	0		21.17	21.17	21.09
3	1	0	QPSK	23.95	24.01	24.03
3	1	8		24.08	24.11	24.06
3	1	14		24.02	24.11	23.70
3	8	0		23.06	23.14	23.10
3	8	4		23.13	23.22	23.11
3	8	7		23.13	23.17	23.08
3	15	0		23.12	23.14	23.10
3	1	0	16-QAM	23.26	23.32	23.34
3	1	8		23.36	23.50	23.41
3	1	14		23.33	23.44	23.10
3	8	0		22.15	22.20	22.16
3	8	4		22.22	22.27	22.16
3	8	7		22.18	22.24	22.12
3	15	0		22.14	22.18	22.14
3	1	0	64-QAM	22.21	22.31	22.31
3	1	8		22.28	22.44	22.28
3	1	14		22.23	22.37	22.16
3	8	0		21.13	21.19	21.17
3	8	4		21.20	21.28	21.16
3	8	7		21.17	21.25	21.12
3	15	0		21.15	21.17	21.13



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.86	23.92	23.92
1.4	1	3		23.96	24.07	23.96
1.4	1	5		23.91	23.98	23.62
1.4	3	0		23.94	23.95	23.94
1.4	3	1		24.01	24.03	23.96
1.4	3	3		23.92	24.01	23.82
1.4	6	0		23.05	23.10	23.01
1.4	1	0	16-QAM	23.19	23.26	23.24
1.4	1	3		23.31	23.39	23.27
1.4	1	5		23.24	23.35	22.99
1.4	3	0		23.04	23.03	22.97
1.4	3	1		23.05	23.11	23.02
1.4	3	3		23.01	23.13	23.00
1.4	6	0		22.11	22.18	22.06
1.4	1	0	64-QAM	22.10	22.20	22.12
1.4	1	3		22.22	22.32	22.18
1.4	1	5		22.14	22.28	22.05
1.4	3	0		22.12	22.15	22.11
1.4	3	1		22.17	22.25	22.17
1.4	3	3		22.18	22.25	22.11
1.4	6	0		21.04	21.12	20.99



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.15	24.28	24.23
20	1	49		23.54	24.10	24.07
20	1	99		24.09	24.01	23.89
20	50	0		23.33	23.35	23.32
20	50	24		23.25	23.25	23.27
20	50	50		23.22	23.16	23.20
20	100	0		23.27	23.28	23.26
20	1	0	16-QAM	23.32	23.48	23.40
20	1	49		23.06	23.28	23.20
20	1	99		23.27	23.17	23.06
20	50	0		22.33	22.37	22.37
20	50	24		22.30	22.29	22.27
20	50	50		22.26	22.28	22.19
20	100	0		22.32	22.31	22.31
20	1	0	64-QAM	21.94	22.02	21.99
20	1	49		21.23	21.85	21.81
20	1	99		21.86	21.75	21.67
20	50	0		21.34	21.29	21.31
20	50	24		21.30	21.26	21.29
20	50	50		21.23	21.20	21.20
20	100	0		21.31	21.22	21.29
15	1	0	QPSK	24.19	24.27	24.16
15	1	37		23.50	24.05	24.07
15	1	74		24.11	24.09	24.00
15	36	0		23.32	23.26	23.25
15	36	20		23.31	23.25	23.19
15	36	39		23.23	23.14	23.13
15	75	0		23.28	23.22	23.20
15	1	0	16-QAM	23.40	23.39	23.36
15	1	37		22.65	23.32	23.22
15	1	74		23.36	23.20	23.14
15	36	0		22.26	22.24	22.23
15	36	20		22.34	22.17	22.17
15	36	39		22.24	22.20	22.13
15	75	0		22.34	22.27	22.24
15	1	0	64-QAM	22.01	22.03	21.96
15	1	37		21.54	21.77	21.71
15	1	74		21.88	21.82	21.74
15	36	0		21.32	21.25	21.26
15	36	20		21.20	21.17	21.22
15	36	39		21.25	21.13	21.12
15	75	0		21.31	21.26	21.25



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.92	23.94	23.88
10	1	25		23.83	23.95	23.92
10	1	49		23.96	23.85	23.81
10	25	0		23.12	23.01	23.02
10	25	12		23.10	23.02	23.04
10	25	25		23.06	22.99	22.95
10	50	0		23.13	23.05	23.03
10	1	0	16-QAM	23.12	23.14	23.03
10	1	25		22.89	23.11	23.02
10	1	49		23.05	22.95	22.87
10	25	0		22.15	22.08	22.07
10	25	12		22.15	22.03	22.06
10	25	25		22.09	22.02	21.96
10	50	0		22.16	22.11	22.08
10	1	0	64-QAM	21.82	21.82	21.76
10	1	25		21.38	21.71	21.65
10	1	49		21.75	21.65	21.60
10	25	0		21.21	21.15	21.14
10	25	12		21.16	21.14	21.12
10	25	25		21.27	21.08	21.02
10	50	0		21.17	21.12	21.07
5	1	0	QPSK	24.15	23.93	23.94
5	1	12		24.09	24.04	23.92
5	1	24		24.03	23.95	23.84
5	12	0		23.14	23.06	23.07
5	12	7		23.18	23.06	23.09
5	12	13		23.18	23.08	23.03
5	25	0		23.18	23.04	23.05
5	1	0	16-QAM	23.30	23.12	23.11
5	1	12		23.25	23.18	23.10
5	1	24		23.25	23.15	23.03
5	12	0		22.18	22.07	22.06
5	12	7		22.16	22.04	22.05
5	12	13		22.13	22.07	21.99
5	25	0		22.20	22.08	22.07
5	1	0	64-QAM	21.91	21.69	21.68
5	1	12		21.83	21.81	21.73
5	1	24		21.91	21.74	21.65
5	12	0		21.22	21.13	21.12
5	12	7		21.26	21.12	21.17
5	12	13		21.24	21.15	21.11
5	25	0		21.26	21.17	21.11



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.48	24.22	23.90
20	1	49		24.02	24.11	23.51
20	1	99		23.98	24.10	23.35
20	50	0		23.00	23.23	23.32
20	50	24		23.21	23.19	23.25
20	50	50		23.14	23.12	23.30
20	100	0		23.14	23.26	23.26
20	1	0	16-QAM	22.80	23.36	23.50
20	1	49		23.41	23.50	23.02
20	1	99		23.48	23.44	22.83
20	50	0		22.02	22.20	22.39
20	50	24		22.16	22.33	22.32
20	50	50		22.17	22.14	22.19
20	100	0		22.11	22.20	22.31
20	1	0	64-QAM	21.46	22.33	22.48
20	1	49		22.31	22.46	21.97
20	1	99		22.38	22.27	22.49
20	50	0		20.80	21.21	21.37
20	50	24		21.14	21.25	21.15
20	50	50		21.18	21.31	21.26
20	100	0		21.13	21.23	21.31
15	1	0	QPSK	23.22	24.20	24.06
15	1	37		23.95	24.07	23.52
15	1	74		23.95	24.02	23.38
15	36	0		23.00	23.36	23.20
15	36	20		23.17	23.22	23.22
15	36	39		23.11	23.19	23.03
15	75	0		23.16	23.29	23.17
15	1	0	16-QAM	22.56	23.46	23.50
15	1	37		23.27	23.44	22.96
15	1	74		23.45	23.28	22.60
15	36	0		22.37	22.35	22.37
15	36	20		22.22	22.20	22.29
15	36	39		22.09	22.09	22.09
15	75	0		22.13	22.25	22.22
15	1	0	64-QAM	21.29	22.48	22.33
15	1	37		22.14	22.24	21.30
15	1	74		22.32	22.37	21.58
15	36	0		20.94	21.33	21.30
15	36	20		21.07	21.25	21.32
15	36	39		21.12	21.23	21.26
15	75	0		21.05	21.17	21.24



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.15	24.01	24.02
10	1	25		23.98	23.98	23.94
10	1	49		23.91	23.93	23.32
10	25	0		22.88	23.10	23.09
10	25	12		23.09	23.07	23.07
10	25	25		23.05	23.04	22.94
10	50	0		23.07	23.07	23.06
10	1	0	16-QAM	23.34	23.44	23.38
10	1	25		23.34	23.38	23.32
10	1	49		23.28	23.34	22.67
10	25	0		21.94	22.09	22.08
10	25	12		21.90	22.09	22.07
10	25	25		21.96	22.04	22.02
10	50	0		21.84	22.09	22.06
10	1	0	64-QAM	21.31	22.32	22.32
10	1	25		21.31	22.25	22.25
10	1	49		22.16	22.22	21.59
10	25	0		20.91	21.11	21.09
10	25	12		20.79	21.10	21.08
10	25	25		20.97	21.06	21.04
10	50	0		20.74	21.08	21.08
5	1	0	QPSK	23.07	23.98	24.09
5	1	12		24.00	23.99	23.96
5	1	24		23.88	24.00	23.25
5	12	0		22.90	23.01	23.11
5	12	7		23.12	23.11	23.08
5	12	13		23.04	23.08	22.84
5	25	0		23.12	23.02	22.96
5	1	0	16-QAM	23.42	23.48	23.30
5	1	12		23.40	23.39	23.29
5	1	24		23.30	23.42	22.61
5	12	0		22.03	22.09	22.18
5	12	7		21.83	22.06	22.16
5	12	13		21.86	22.14	22.00
5	25	0		21.81	22.05	21.97
5	1	0	64-QAM	21.38	22.41	22.34
5	1	12		21.30	22.33	22.17
5	1	24		22.06	22.27	21.64
5	12	0		20.91	21.13	21.00
5	12	7		20.76	21.05	21.13
5	12	13		20.91	21.04	20.99
5	25	0		20.83	21.14	20.99



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.14	24.07	23.97
3	1	8		24.05	23.91	23.88
3	1	14		23.89	24.03	23.36
3	8	0		22.85	23.13	22.99
3	8	4		23.04	23.13	23.15
3	8	7		22.97	23.10	22.92
3	15	0		23.06	23.05	23.02
3	1	0	16-QAM	23.40	23.32	23.30
3	1	8		23.34	23.34	23.22
3	1	14		23.21	23.39	22.62
3	8	0		21.87	22.07	22.16
3	8	4		21.86	22.01	22.02
3	8	7		21.89	22.07	21.92
3	15	0		21.88	22.03	22.11
3	1	0	64-QAM	21.31	22.27	22.30
3	1	8		21.29	22.21	22.24
3	1	14		22.16	22.13	21.53
3	8	0		20.94	21.18	21.11
3	8	4		20.86	21.02	21.15
3	8	7		20.91	21.08	21.10
3	15	0		20.73	20.99	21.13
1.4	1	0	QPSK	23.00	23.89	23.78
1.4	1	3		23.20	23.91	23.30
1.4	1	5		23.22	24.00	23.13
1.4	3	0		23.01	23.85	23.18
1.4	3	1		23.02	24.01	23.30
1.4	3	3		23.12	23.95	23.12
1.4	6	0		22.74	23.01	22.45
1.4	1	0	16-QAM	22.33	23.17	22.51
1.4	1	3		22.38	23.29	22.47
1.4	1	5		22.43	23.25	22.34
1.4	3	0		22.09	22.98	22.27
1.4	3	1		22.16	23.03	22.30
1.4	3	3		22.16	23.04	22.16
1.4	6	0		21.79	22.02	21.74
1.4	1	0	64-QAM	21.00	22.19	21.34
1.4	1	3		21.05	22.32	21.44
1.4	1	5		21.18	22.22	21.36
1.4	3	0		21.14	22.16	21.33
1.4	3	1		21.12	22.19	21.45
1.4	3	3		21.22	22.18	21.36
1.4	6	0		20.73	21.01	20.73



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	24.19	24.21	24.22
20	1	49		24.10	24.09	24.09
20	1	99		24.07	24.07	24.06
20	50	0		23.30	23.31	23.32
20	50	24		23.27	23.25	23.27
20	50	50		23.20	23.21	23.21
20	100	0		23.26	23.25	23.27
20	1	0	16-QAM	23.45	23.46	23.48
20	1	49		23.47	23.48	23.48
20	1	99		23.45	23.47	23.49
20	50	0		22.32	22.32	22.32
20	50	24		22.27	22.28	22.28
20	50	50		22.22	22.21	22.22
20	100	0		22.25	22.25	22.25
20	1	0	64-QAM	22.49	22.45	22.49
20	1	49		22.40	22.39	22.39
20	1	99		22.38	22.32	22.36
20	50	0		21.34	21.34	21.32
20	50	24		21.25	21.27	21.27
20	50	50		21.23	21.22	21.22
20	100	0		21.27	21.26	21.27
15	1	0	QPSK	24.17	24.18	24.19
15	1	37		23.59	23.58	23.19
15	1	74		23.26	23.27	23.27
15	36	0		23.25	23.28	23.27
15	36	20		23.23	23.23	23.23
15	36	39		23.11	23.11	23.11
15	75	0		23.21	23.21	23.21
15	1	0	16-QAM	23.48	23.50	23.49
15	1	37		22.56	22.57	22.97
15	1	74		22.60	22.60	22.60
15	36	0		22.24	22.26	22.25
15	36	20		22.22	22.22	22.23
15	36	39		22.17	22.16	22.16
15	75	0		22.23	22.22	22.23
15	1	0	64-QAM	22.40	22.40	22.39
15	1	37		21.85	21.81	21.44
15	1	74		21.53	21.53	21.53
15	36	0		21.29	21.28	21.29
15	36	20		21.24	21.25	21.26
15	36	39		21.16	21.20	21.19
15	75	0		21.22	21.22	21.22



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.01	24.03	24.01
10	1	25		23.97	23.99	23.98
10	1	49		23.31	23.31	23.31
10	25	0		23.10	23.09	23.09
10	25	12		23.06	23.07	23.08
10	25	25		22.93	22.92	22.93
10	50	0		23.07	23.06	23.06
10	1	0	16-QAM	23.39	23.42	23.37
10	1	25		23.33	23.33	23.31
10	1	49		22.64	22.64	22.64
10	25	0		22.09	22.10	22.11
10	25	12		22.09	22.08	22.08
10	25	25		22.02	22.02	22.02
10	50	0		22.07	22.08	22.08
10	1	0	64-QAM	22.28	22.30	22.34
10	1	25		22.24	22.24	22.24
10	1	49		21.58	21.58	21.58
10	25	0		21.09	21.09	21.09
10	25	12		21.09	21.08	21.08
10	25	25		21.05	21.04	21.05
10	50	0		21.08	21.06	21.06
5	1	0	QPSK	23.90	23.91	23.92
5	1	12		23.48	23.49	23.49
5	1	24		23.19	23.20	23.20
5	12	0		23.03	23.01	23.02
5	12	7		22.86	22.86	22.87
5	12	13		22.67	22.67	22.67
5	25	0		22.77	22.77	22.77
5	1	0	16-QAM	23.24	23.24	23.24
5	1	12		22.83	22.81	22.81
5	1	24		22.53	22.52	22.53
5	12	0		22.05	22.05	22.05
5	12	7		21.98	21.98	21.98
5	12	13		21.78	21.78	21.78
5	25	0		21.90	21.90	21.90
5	1	0	64-QAM	22.20	22.21	22.22
5	1	12		21.78	21.76	21.77
5	1	24		21.46	21.45	21.47
5	12	0		21.10	21.09	21.10
5	12	7		21.08	21.08	21.08
5	12	13		20.87	20.88	20.88
5	25	0		20.98	20.98	20.98



LTE Band 41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	25.91	26.04	25.91
20	1	49		25.39	25.86	25.83
20	1	99		25.44	25.78	25.69
20	50	0		25.19	25.18	25.11
20	50	24		25.16	25.10	25.08
20	50	50		25.01	25.05	25.01
20	100	0		25.17	25.12	25.01
20	1	0	16-QAM	25.33	25.44	25.26
20	1	49		24.80	25.24	25.20
20	1	99		24.78	25.14	25.11
20	50	0		24.25	24.26	24.18
20	50	24		24.23	24.19	24.15
20	50	50		24.05	24.10	24.04
20	100	0		24.21	24.17	24.12
20	1	0	64-QAM	24.14	24.24	23.98
20	1	49		23.59	24.06	23.99
20	1	99		23.55	23.95	23.89
20	50	0		23.25	23.22	23.14
20	50	24		23.19	23.15	23.16
20	50	50		23.06	23.09	23.04
20	100	0		23.18	23.15	23.12
15	1	0	QPSK	25.99	26.03	26.01
15	1	37		25.47	25.98	26.02
15	1	74		25.91	25.89	25.95
15	36	0		25.18	25.14	25.17
15	36	20		25.15	25.12	25.15
15	36	39		25.09	25.03	25.08
15	75	0		25.15	25.10	25.13
15	1	0	16-QAM	25.31	25.40	25.43
15	1	37		24.84	25.27	25.31
15	1	74		25.17	25.21	25.21
15	36	0		24.20	24.15	24.19
15	36	20		24.19	24.09	24.16
15	36	39		24.11	24.04	24.08
15	75	0		24.21	24.09	24.16
15	1	0	64-QAM	24.15	24.20	24.25
15	1	37		23.59	24.08	24.10
15	1	74		24.00	23.98	24.03
15	36	0		23.20	23.19	23.22
15	36	20		23.18	23.17	23.24
15	36	39		23.16	23.08	23.12
15	75	0		23.20	23.14	23.17



LTE Band 41 (HPUE) Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	25.88	25.86	25.83
10	1	25		25.63	25.84	25.79
10	1	49		25.84	25.80	25.73
10	25	0		25.08	25.08	25.00
10	25	12		25.08	25.04	24.97
10	25	25		25.05	24.99	24.95
10	50	0		25.08	25.07	24.99
10	1	0	16-QAM	25.23	25.30	25.23
10	1	25		24.97	25.26	25.16
10	1	49		25.23	25.16	25.07
10	25	0		24.12	24.15	24.08
10	25	12		24.12	24.07	24.03
10	25	25		24.09	24.04	23.97
10	50	0		24.16	24.10	24.05
10	1	0	64-QAM	24.05	24.09	24.07
10	1	25		23.84	24.05	23.99
10	1	49		24.04	23.95	23.93
10	25	0		23.22	23.20	23.11
10	25	12		23.20	23.13	23.08
10	25	25		23.15	23.13	23.06
10	50	0		23.12	23.10	23.05
5	1	0	QPSK	26.03	25.87	25.86
5	1	12		25.97	25.93	25.86
5	1	24		25.95	25.82	25.80
5	12	0		25.18	25.07	25.03
5	12	7		25.19	25.07	25.06
5	12	13		25.14	25.09	25.02
5	25	0		25.16	25.00	25.00
5	1	0	16-QAM	25.41	25.21	25.20
5	1	12		25.39	25.33	25.23
5	1	24		25.40	25.26	25.10
5	12	0		24.21	24.09	24.09
5	12	7		24.22	24.14	24.14
5	12	13		24.21	24.15	24.08
5	25	0		24.21	24.07	24.08
5	1	0	64-QAM	24.21	24.04	24.03
5	1	12		24.19	24.11	24.04
5	1	24		24.18	24.06	23.94
5	12	0		23.30	23.15	23.16
5	12	7		23.30	23.20	23.16
5	12	13		23.27	23.22	23.07
5	25	0		23.26	23.13	23.07



LTE Band 41_CA Maximum Average Power [dBm]								
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest
	RB Size	RB Offset	RB Size	RB Offset				
20+20	0	0	1	99	QPSK	22.72	22.07	21.42
20+20	1	0	0	0		21.51	21.66	21.64
20+20	100	0	0	0		21.15	20.23	21.07
20+20	100	0	100	0		20.36	20.18	20.44
20+20	1	0	1	99		16.51	16.30	16.62
20+20	1	0	1	0		19.10	19.22	19.01
20+20	1	99	1	0		21.89	21.77	21.75
20+20	100	0	1	99		21.67	21.51	21.81
20+20	0	0	1	99	16-QAM	21.76	21.62	20.61
20+20	1	0	0	0		21.10	21.15	21.25
20+20	100	0	0	0		20.33	19.23	20.07
20+20	100	0	100	0		19.41	19.23	19.53
20+20	1	0	1	99		16.70	16.51	16.67
20+20	1	0	1	0		19.34	19.22	19.28
20+20	1	99	1	0		21.07	20.96	21.05
20+20	100	0	1	99		21.76	21.60	21.93
20+20	0	0	1	99	64-QAM	20.34	20.38	19.21
20+20	1	0	0	0		19.75	19.73	19.79
20+20	100	0	0	0		19.22	19.23	19.07
20+20	100	0	100	0		19.40	19.24	19.31
20+20	1	0	1	99		16.51	16.13	16.29
20+20	1	0	1	0		19.21	18.54	18.86
20+20	1	99	1	0		18.74	18.61	18.71
20+20	100	0	1	99		21.53	21.47	21.69
20+15	100	0	75	0	QPSK	20.38	20.14	20.45
20+15	1	0	1	74		16.63	16.56	16.77
20+15	1	99	1	0		21.89	21.81	21.64
20+15	100	0	75	0	16-QAM	19.45	19.20	19.24
20+15	1	0	1	74		16.82	16.55	16.51
20+15	1	99	1	0		21.12	20.84	20.80
20+15	100	0	75	0	64-QAM	19.47	19.21	19.34
20+15	1	0	1	74		16.44	16.37	15.91
20+15	1	99	1	0		18.80	18.76	21.72
15+20	75	0	100	0	QPSK	20.35	20.02	19.94
15+20	1	0	1	99		16.53	16.44	16.09
15+20	1	74	1	0		21.80	21.47	21.46
15+20	75	0	100	0	16-QAM	19.43	19.07	19.04
15+20	1	0	1	99		16.66	16.47	16.28
15+20	1	74	1	0		21.03	20.62	20.67
15+20	75	0	100	0	64-QAM	19.43	19.09	19.04
15+20	1	0	1	99		16.28	16.30	15.90
15+20	1	74	1	0		19.13	19.04	18.77



LTE Band 41_CA Maximum Average Power [dBm]								
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest
	RB Size	RB Offset	RB Size	RB Offset				
20+10	100	0	50	0	QPSK	19.97	19.58	20.60
20+10	1	0	1	49		16.68	16.55	16.94
20+10	1	99	1	0		21.86	21.65	22.13
20+10	100	0	50	0	16-QAM	19.00	19.37	19.62
20+10	1	0	1	49		16.85	16.49	16.91
20+10	1	99	1	0		21.06	20.92	20.77
20+10	100	0	50	0	64-QAM	19.49	19.10	19.62
20+10	1	0	1	49		16.49	16.40	16.77
20+10	1	99	1	0		18.70	18.59	22.51
10+20	50	0	100	0	QPSK	20.29	19.70	19.65
10+20	1	0	1	99		16.61	16.35	16.05
10+20	1	49	1	0		21.71	21.59	21.40
10+20	50	0	100	0	16-QAM	19.40	18.58	18.74
10+20	1	0	1	99		16.80	16.28	16.58
10+20	1	49	1	0		20.87	20.62	20.59
10+20	50	0	100	0	64-QAM	19.36	19.10	19.24
10+20	1	0	1	99		16.50	16.16	15.85
10+20	1	49	1	0		20.03	19.72	19.67
20+5	100	0	25	0	QPSK	20.33	20.09	20.20
20+5	1	0	1	24		16.58	16.52	16.25
20+5	1	99	1	0		21.73	21.26	21.39
20+5	100	0	25	0	16-QAM	19.00	18.57	18.66
20+5	1	0	1	24		16.77	16.45	16.41
20+5	1	99	1	0		20.97	20.29	20.80
20+5	100	0	25	0	64-QAM	19.51	19.08	19.19
20+5	1	0	1	24		16.39	16.29	15.98
20+5	1	99	1	0		18.59	18.26	21.53
5+20	25	0	100	0	QPSK	20.12	20.46	20.31
5+20	1	0	1	99		16.48	16.86	16.84
5+20	1	24	1	0		22.06	22.46	22.33
5+20	25	0	100	0	16-QAM	20.73	19.05	19.00
5+20	1	0	1	99		16.66	16.92	16.99
5+20	1	24	1	0		21.25	21.56	21.43
5+20	25	0	100	0	64-QAM	20.83	18.97	19.49
5+20	1	0	1	99		16.38	16.74	16.79
5+20	1	24	1	0		20.41	21.66	20.79



LTE Band 41_CA Maximum Average Power [dBm]								
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest
	RB Size	RB Offset	RB Size	RB Offset				
15+10	75	0	50	0	QPSK	20.40	20.18	20.28
15+10	1	0	1	49		16.63	16.60	16.53
15+10	1	74	1	0		21.85	21.83	21.47
15+10	75	0	50	0	16-QAM	18.94	18.72	18.54
15+10	1	0	1	49		16.83	16.61	16.55
15+10	1	74	1	0		21.06	20.96	20.78
15+10	75	0	50	0	64-QAM	19.36	19.26	19.32
15+10	1	0	1	49		16.47	16.47	16.14
15+10	1	74	1	0		19.19	19.17	21.65
10+15	50	0	75	0	QPSK	20.30	20.16	20.19
10+15	1	49	1	0		21.64	21.55	21.45
10+15	1	0	1	74		16.62	16.41	16.20
10+15	50	0	75	0	16-QAM	18.90	18.34	18.82
10+15	1	49	1	0		20.81	20.75	20.82
10+15	1	0	1	74		16.82	16.58	16.41
10+15	50	0	75	0	64-QAM	19.38	18.85	19.01
10+15	1	49	1	0		19.99	19.43	19.98
10+15	1	0	1	74		16.45	16.15	16.23
15+15	75	0	75	0	QPSK	19.85	19.74	19.76
15+15	1	0	1	74		16.66	16.34	16.50
15+15	1	74	1	0		21.84	21.54	21.81
15+15	75	0	75	0	16-QAM	18.91	18.60	18.50
15+15	1	0	1	74		16.84	16.41	16.63
15+15	1	74	1	0		21.02	20.92	20.62
15+15	75	0	75	0	64-QAM	19.44	19.15	19.34
15+15	1	0	1	74		16.48	16.00	15.92
15+15	1	74	1	0		19.15	19.07	19.06



LTE Band 2

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	3.54	4.46	4.26	5.54	PASS
Middle CH	3.51	4.49	4.14	5.48	
Highest CH	3.48	4.46	4.35	5.51	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.28	6.29	-	-	PASS
Middle CH	5.22	6.17	-	-	
Highest CH	5.07	6.20	-	-	

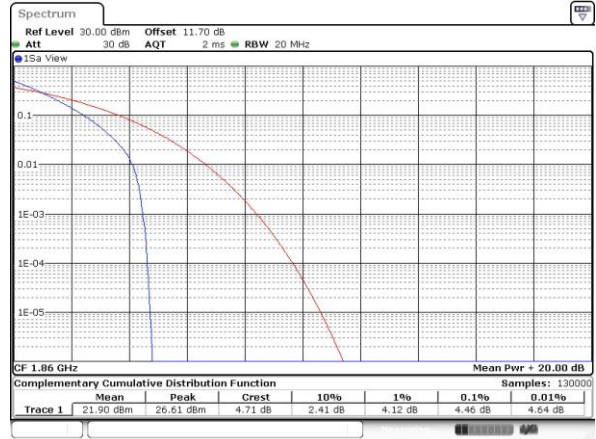


LTE Band 2 / 20MHz / QPSK

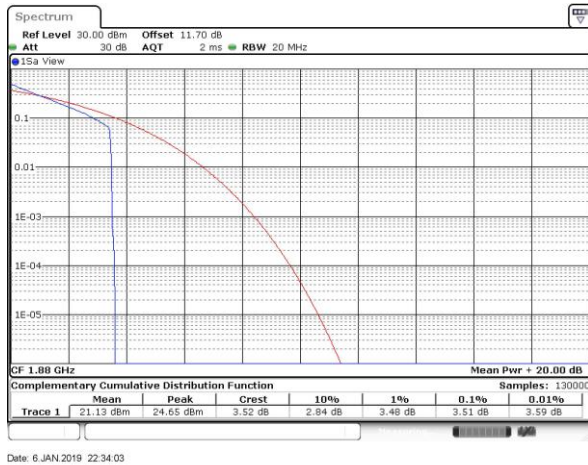
Lowest Channel / 1RB



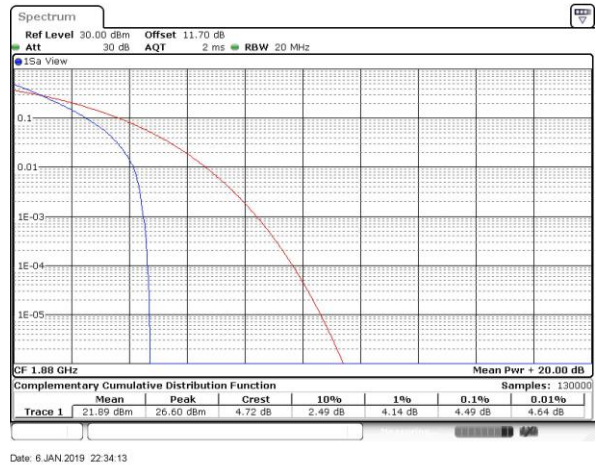
Lowest Channel / Full RB



Middle Channel / 1RB



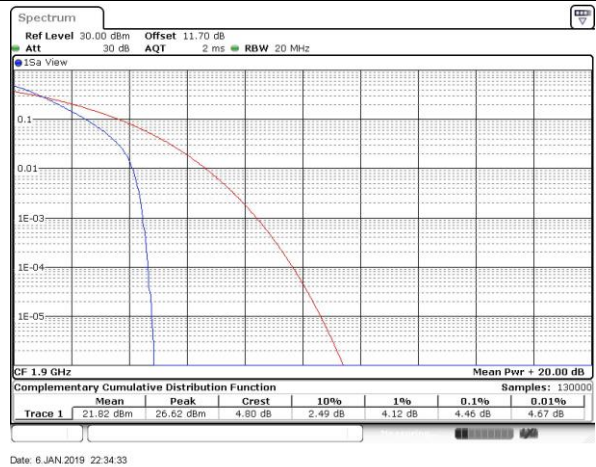
Middle Channel / Full RB



Highest Channel / 1RB



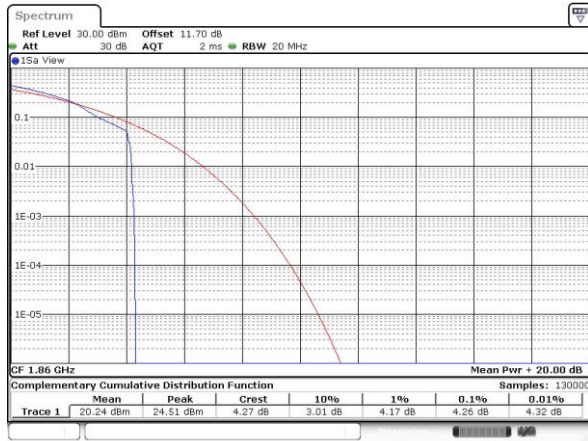
Highest Channel / Full RB



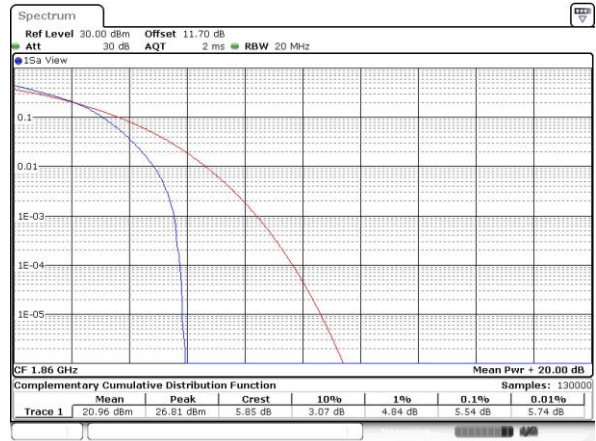


LTE Band 2 / 20MHz / 16QAM

Lowest Channel / 1RB



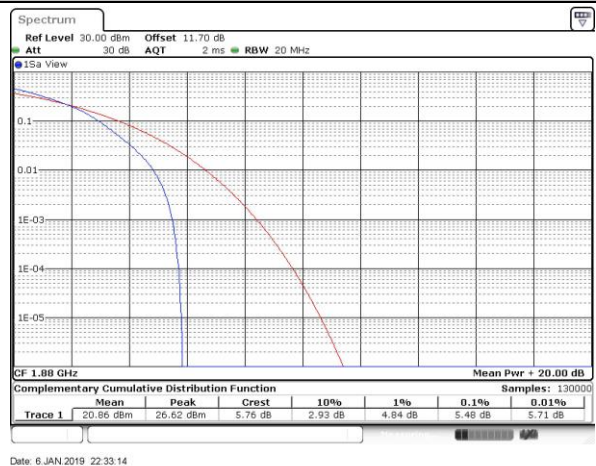
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB

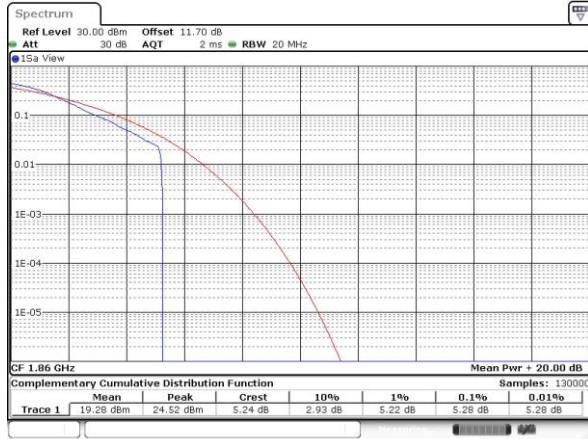


Highest Channel / Full RB



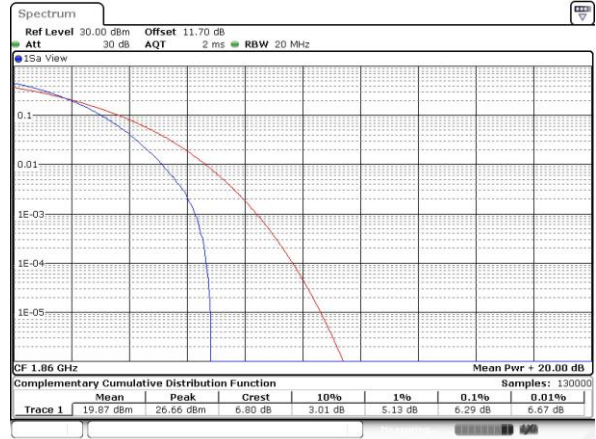
LTE Band 2 / 20MHz / 64QAM

Lowest Channel / 1RB



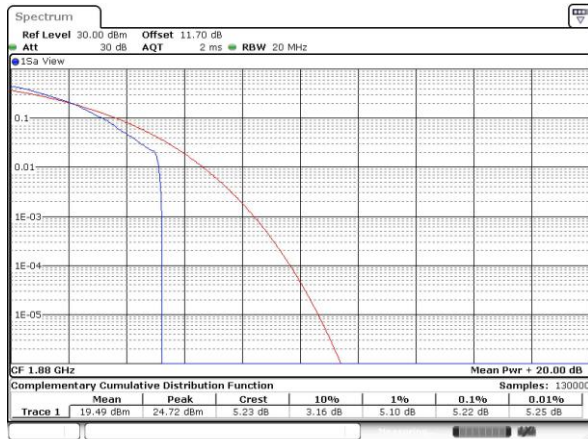
Date: 6 JAN 2019 22:34:43

Lowest Channel / Full RB



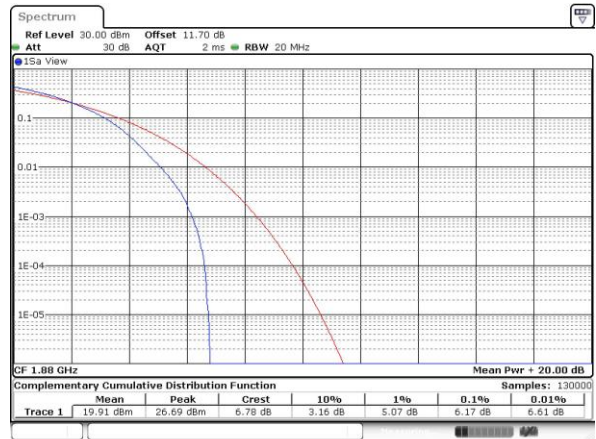
Date: 6 JAN 2019 22:34:53

Middle Channel / 1RB



Date: 6 JAN 2019 22:35:03

Middle Channel / Full RB



Date: 6 JAN 2019 22:35:13

Highest Channel / 1RB



Date: 6 JAN 2019 22:35:23

Highest Channel / Full RB



Date: 6 JAN 2019 22:35:33

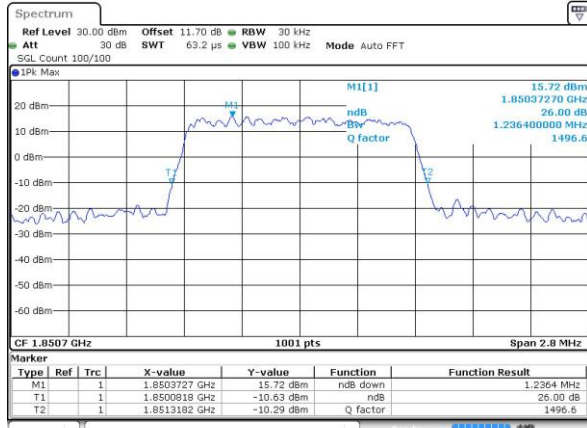
**26dB Bandwidth**

Mode	LTE Band 2 : 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	1.24	1.22	3.00	3.01	4.96	4.89	9.87	9.75	14.30	14.36	20.22	20.10
Middle CH	1.22	1.22	3.03	3.06	4.88	4.92	9.69	9.69	14.48	14.66	20.30	20.30
Highest CH	1.23	1.23	3.07	3.00	4.93	4.89	9.75	9.85	14.54	14.39	20.22	20.14
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.02	-	4.89	-	9.97	-	14.39	-	20.14	-
Middle CH	1.22	-	2.97	-	4.83	-	9.89	-	14.45	-	20.18	-
Highest CH	1.24	-	3.01	-	4.93	-	9.71	-	14.27	-	20.02	-



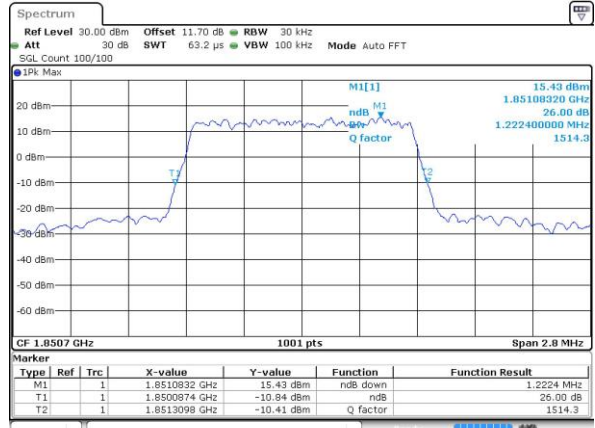
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



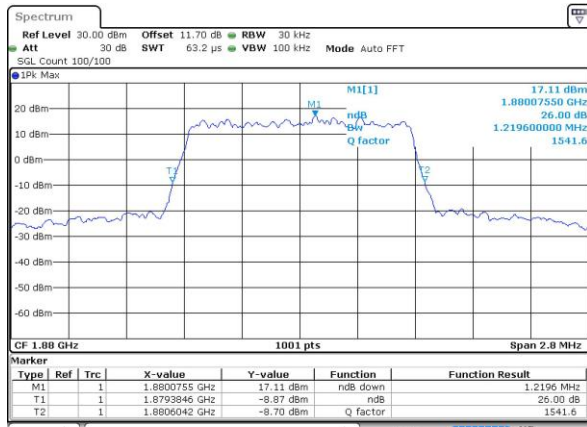
Date: 6 JAN 2019 22:16:17

Lowest Channel / 1.4MHz / 16QAM



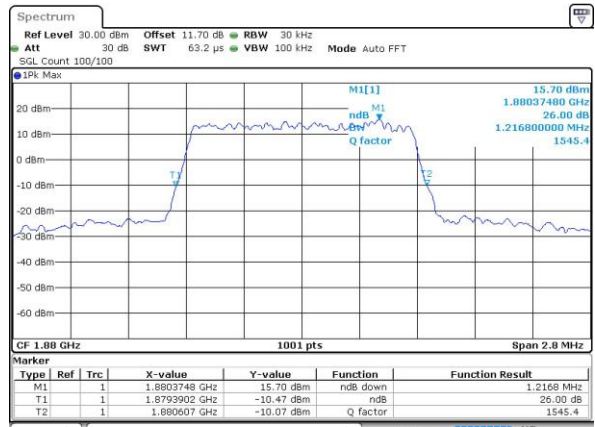
Date: 6 JAN 2019 22:16:29

Middle Channel / 1.4MHz / QPSK



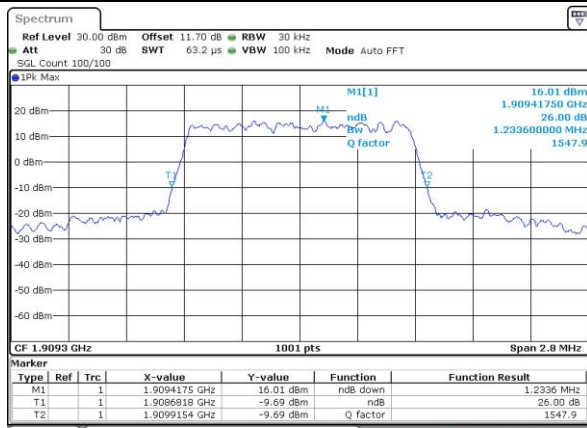
Date: 6 JAN 2019 22:23:18

Middle Channel / 1.4MHz / 16QAM



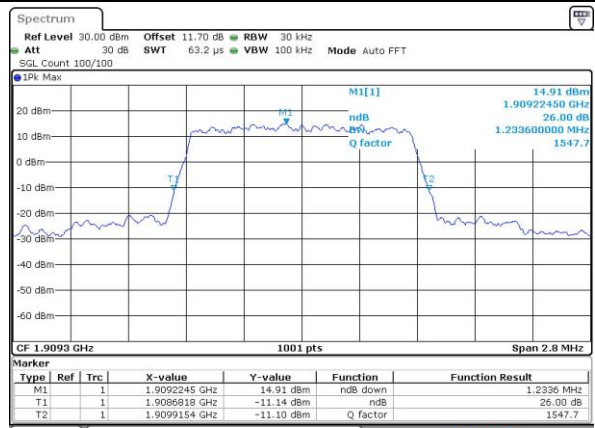
Date: 6 JAN 2019 22:23:29

Highest Channel / 1.4MHz / QPSK



Date: 6 JAN 2019 22:26:04

Highest Channel / 1.4MHz / 16QAM

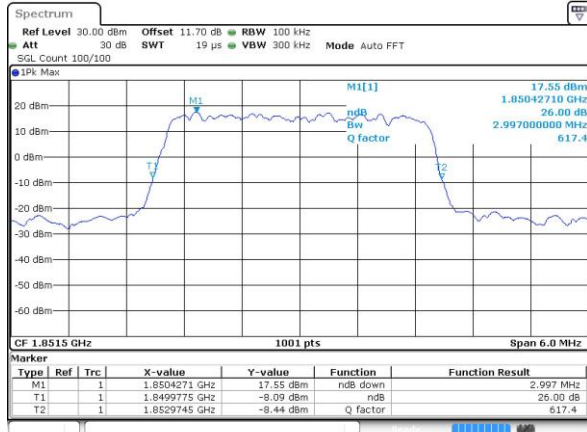


Date: 6 JAN 2019 22:26:16



LTE Band 2

Lowest Channel / 3MHz / QPSK



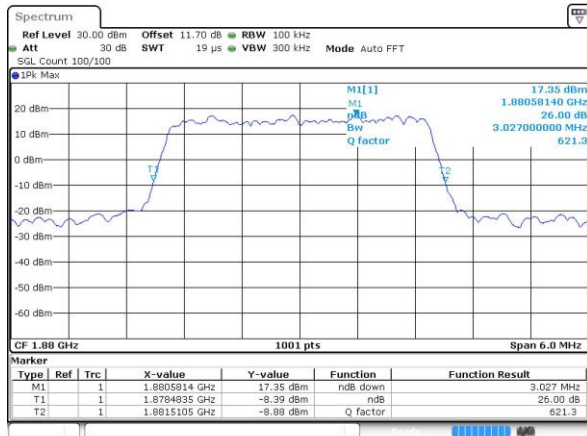
Date: 6 JAN 2019 19:48:17

Lowest Channel / 3MHz / 16QAM



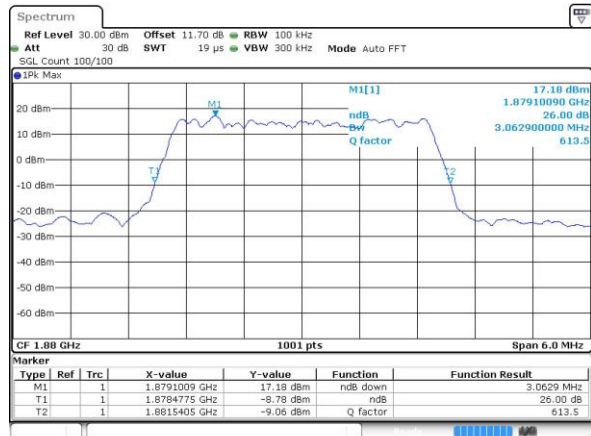
Date: 6 JAN 2019 19:48:28

Middle Channel / 3MHz / QPSK



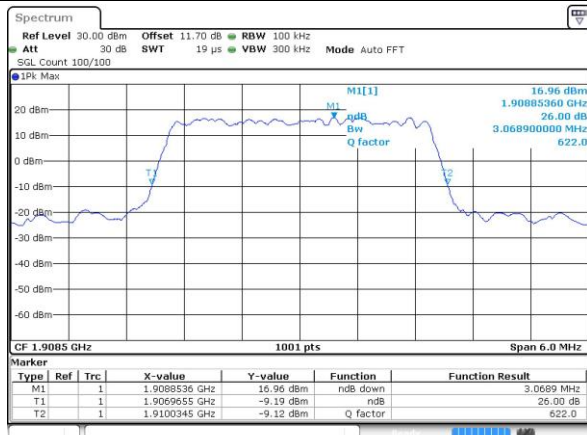
Date: 6 JAN 2019 19:55:04

Middle Channel / 3MHz / 16QAM



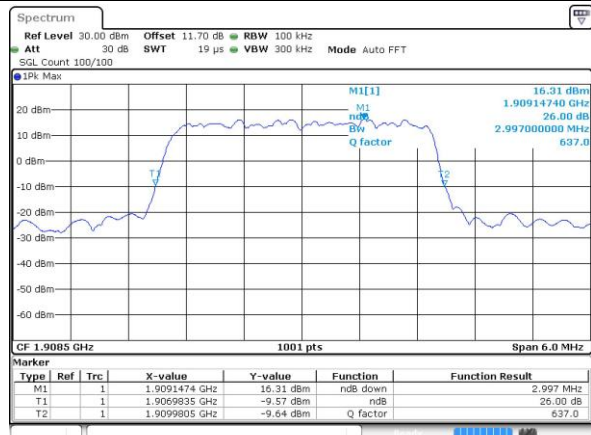
Date: 6 JAN 2019 19:55:15

Highest Channel / 3MHz / QPSK



Date: 6 JAN 2019 19:57:50

Highest Channel / 3MHz / 16QAM

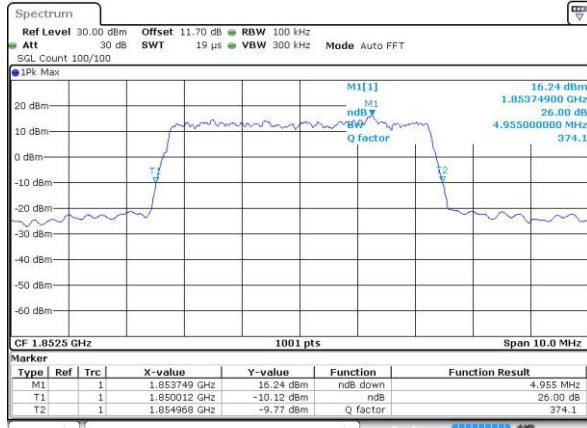


Date: 6 JAN 2019 19:58:02



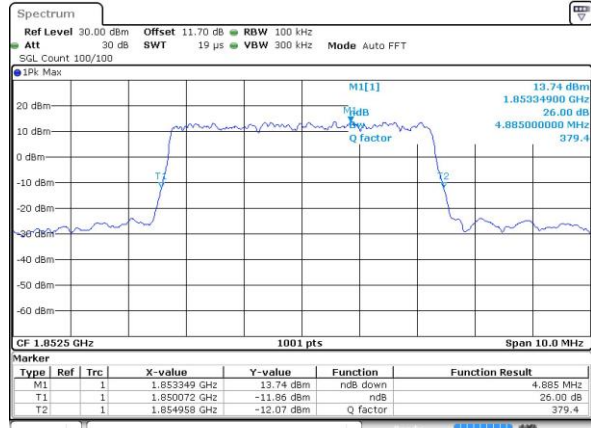
LTE Band 2

Lowest Channel / 5MHz / QPSK



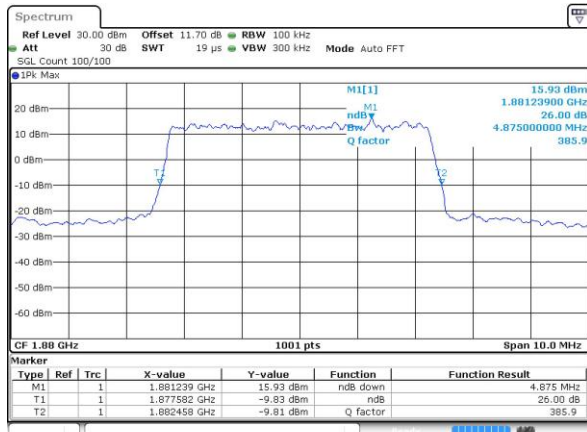
Date: 6 JAN 2019 20:04:38

Lowest Channel / 5MHz / 16QAM



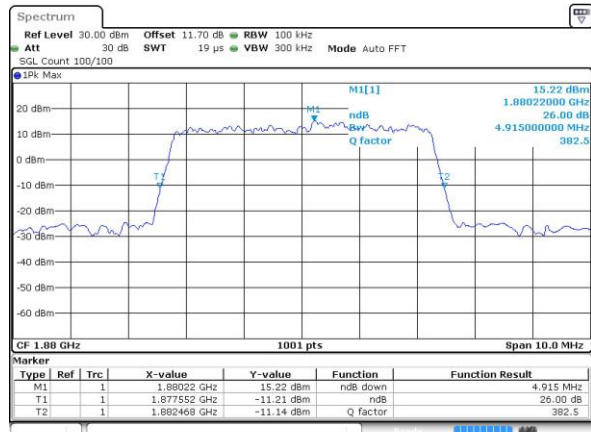
Date: 6 JAN 2019 20:04:49

Middle Channel / 5MHz / QPSK



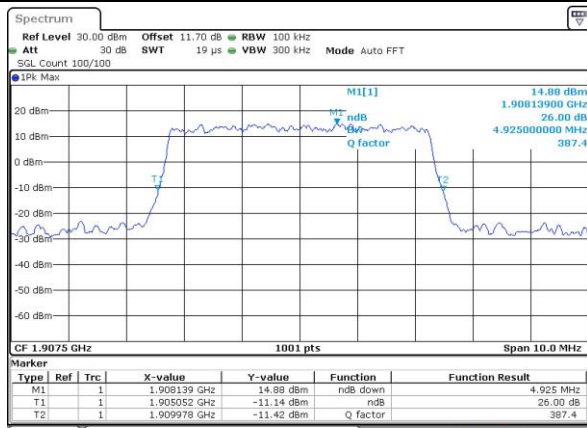
Date: 6 JAN 2019 20:11:25

Middle Channel / 5MHz / 16QAM



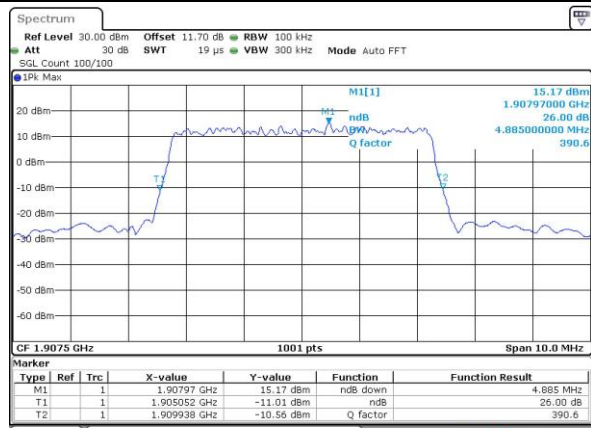
Date: 6 JAN 2019 20:11:36

Highest Channel / 5MHz / QPSK



Date: 6 JAN 2019 20:14:12

Highest Channel / 5MHz / 16QAM

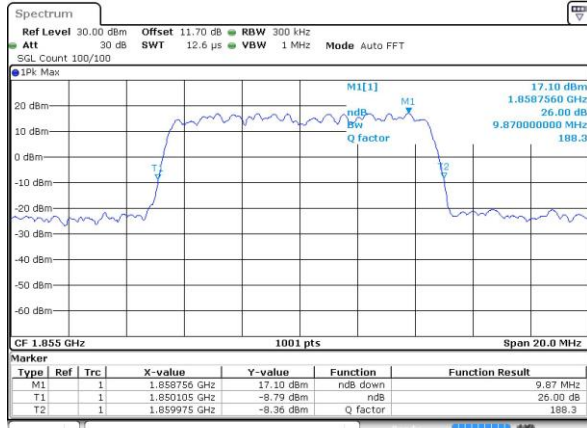


Date: 6 JAN 2019 20:14:23



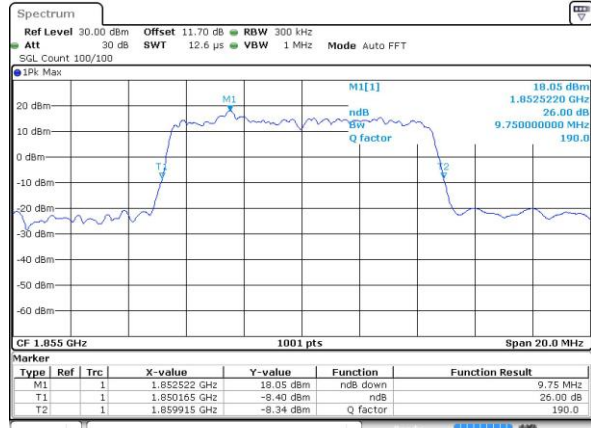
LTE Band 2

Lowest Channel / 10MHz / QPSK



Date: 6 JAN 2019 20:20:59

Lowest Channel / 10MHz / 16QAM



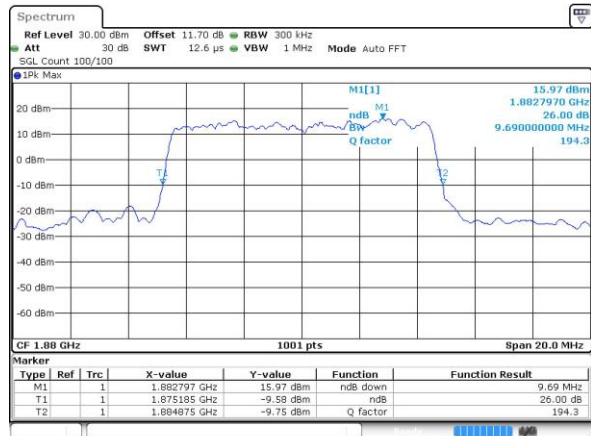
Date: 6 JAN 2019 20:21:10

Middle Channel / 10MHz / QPSK



Date: 6 JAN 2019 20:27:46

Middle Channel / 10MHz / 16QAM



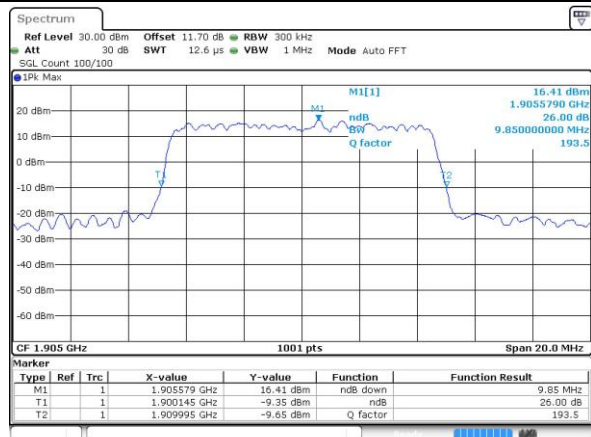
Date: 6 JAN 2019 20:27:58

Highest Channel / 10MHz / QPSK



Date: 6 JAN 2019 20:30:33

Highest Channel / 10MHz / 16QAM

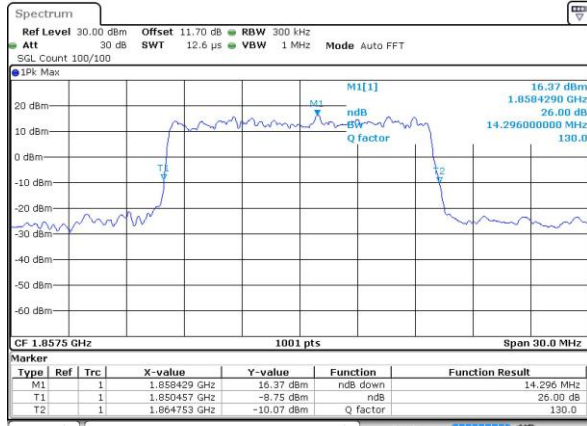


Date: 6 JAN 2019 20:30:44



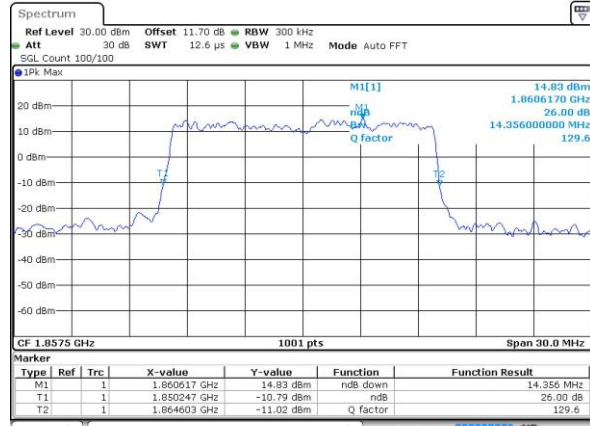
LTE Band 2

Lowest Channel / 15MHz / QPSK



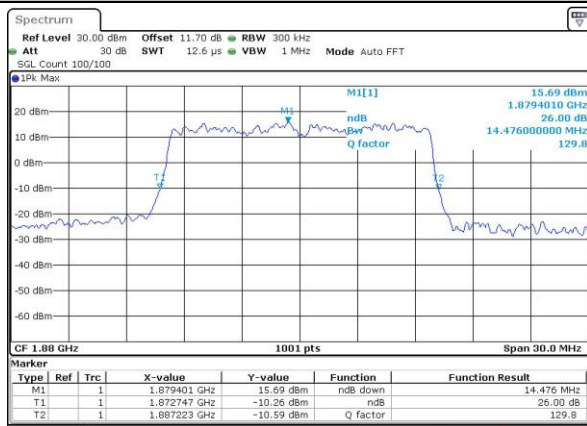
Date: 6 JAN 2019 20:37:21

Lowest Channel / 15MHz / 16QAM



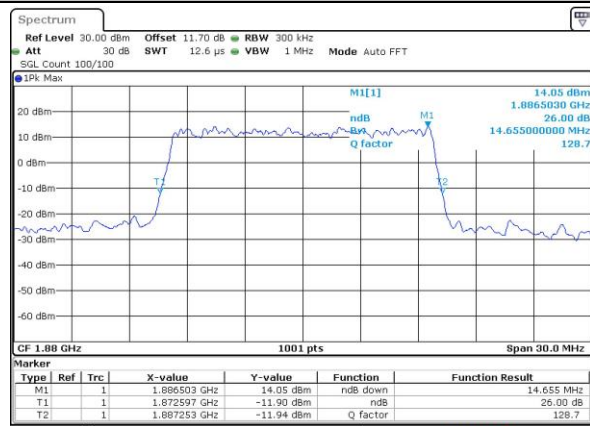
Date: 6 JAN 2019 20:37:32

Middle Channel / 15MHz / QPSK



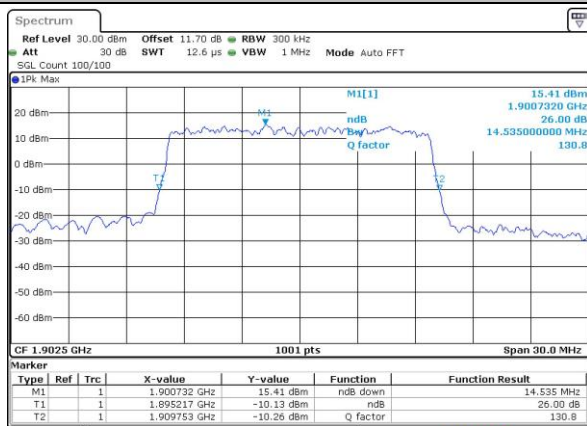
Date: 6 JAN 2019 20:44:08

Middle Channel / 15MHz / 16QAM



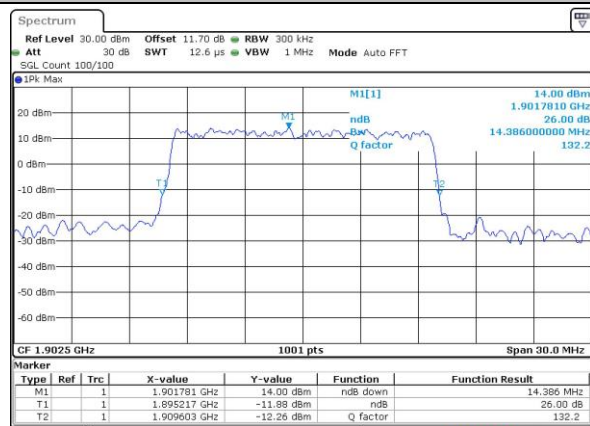
Date: 6 JAN 2019 20:44:19

Highest Channel / 15MHz / QPSK



Date: 6 JAN 2019 20:46:54

Highest Channel / 15MHz / 16QAM

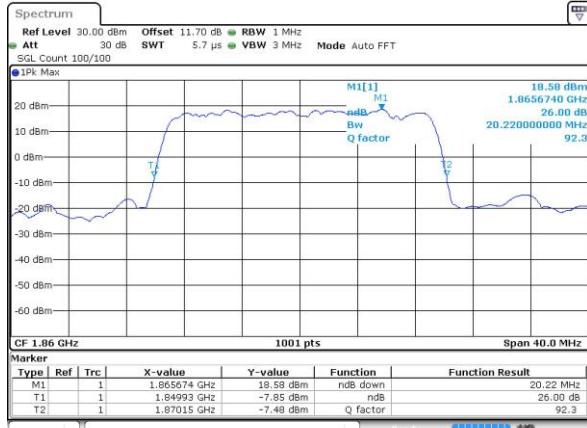


Date: 6 JAN 2019 20:47:06

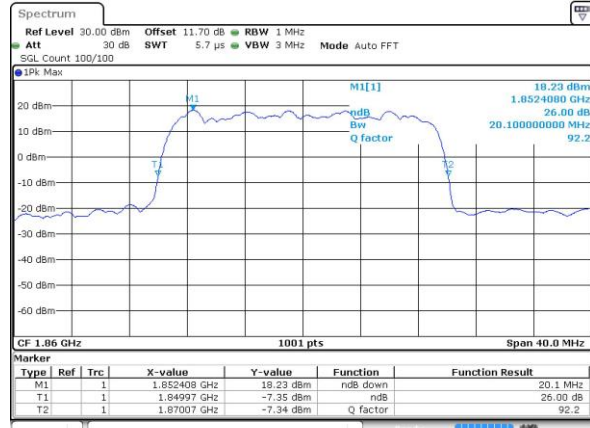


LTE Band 2

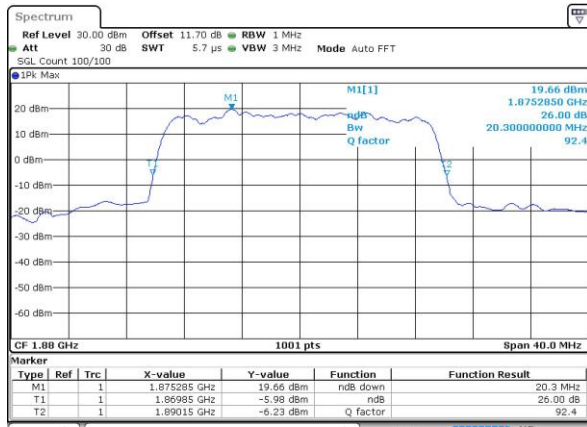
Lowest Channel / 20MHz / QPSK



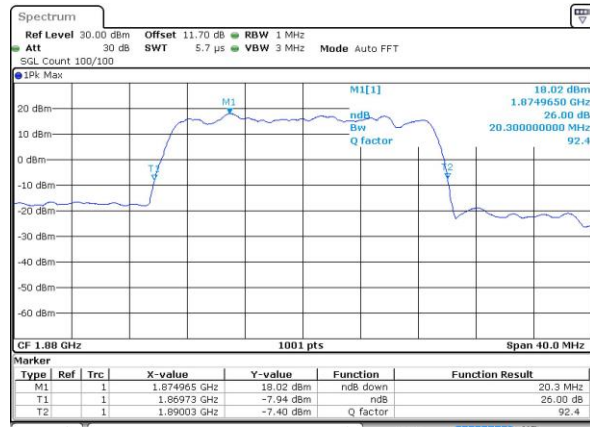
Lowest Channel / 20MHz / 16QAM



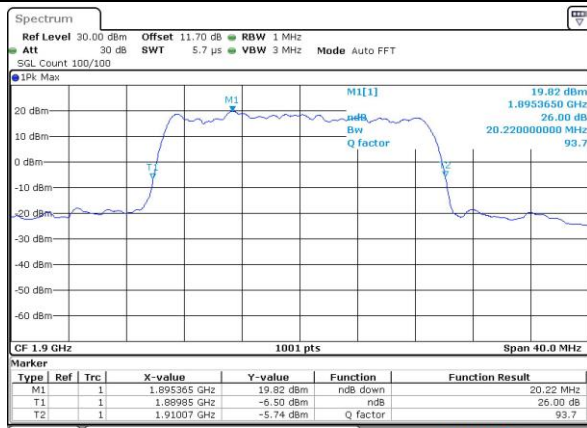
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

