



RF TEST REPORT

Applicant ZTE Corporation

FCC ID SRQ-ZTEBLADEA521

Product LTE/WCDMA/GSM(GPRS) Multi-Mode
Digital Mobile Phone

Model ZTE BLADE A521/BLADE A521

Report No. RXA1704-0112RF03

Issue Date May 9, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2017)/ FCC CFR47 Part 27C (2017)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Isotropic Radiated power	27.50(d)(4) /27.50(h)(2)- Mobile and other user stations	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	27.53(h) /27.53(m)	PASS
5	Peak-to-Average Power Ratio	27.50(d)(5)/ KDB 971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 27.54	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 27.53(h) /27.53(m)	PASS
8	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m)	PASS
Date of Testing: April 11, 2017~ April 26, 2017			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

1.2 Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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2 General Description of Equipment under Test

Client Information

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

General information

EUT Description			
Model	ZTE BLADE A521; BLADE A521		
IMEI	863908030028104		
Hardware Version	csrB		
Software Version	ATT_MX_BA521_V1.0		
Power Supply:	Battery/AC adapter		
Antenna Type:	Internal Antenna		
Test Mode(s):	WCDMA Band IV; LTE Band 4; LTE Band 7;		
HSDPA UE Category:	24		
HSUPA UE Category:	6		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	22.44dBm	
	LTE Band 4:	21.89dBm	
	LTE Band 7:	22.74dBm	
Rated Power Supply Voltage:	3.85V		
Extreme Voltage:	Minimum: 3.6V Maximum: 4.4V		
Extreme Temperature:	Lowest: -10°C Highest: +55°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
EUT Accessory			
Adapter	Manufacturer: SHENZHEN RUIJING INDUSTRIAL CO LTD Model: STC-A51A-Z Input power:100-240 VAC 50-60Hz 250mA Output power:5V DC 1000mA		
Battery	Manufacturer: Zhongshan Tianmao Battery Co., Ltd Model: Li3824T44P4h716043 Power Rating: DC 3.85V, 2400mAh, Li-ion		
Earphone	Manufacturer: Shen zhen FDC Electronic Co.,Ltd.		



	Model: 500002134813
USB Cable	97cm Cable, Shielded
Note: 1. The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.	

2.1 Applied Standards

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

Test standards

FCC CFR47 Part 2 (2017)

FCC CFR47 Part 27C (2017)

ANSI/TIA-603-D (2010)

KDB 971168 D01 Power Meas License Digital Systems v02r02

3 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for **WCDMA Band IV**:

	Test items	Modulation
Conducted Test cases	RF power output	RMC/HSDPA/HSUPA/DC-HSDPA
	Effective Isotropic Radiated power	RMC
	Occupied Bandwidth	RMC
	Band Edge Compliance	RMC
	Peak-to-Average Power Ratio	RMC
	Frequency Stability	RMC
	Spurious Emissions at Antenna Terminals	RMC
Radiated Test cases	Radiates Spurious Emission	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF power output	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Effective Isotropic Radiated power	LTE 4	O	O	O	O	O	O	O	O	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

4 Test Information

4.1 RF Power Output

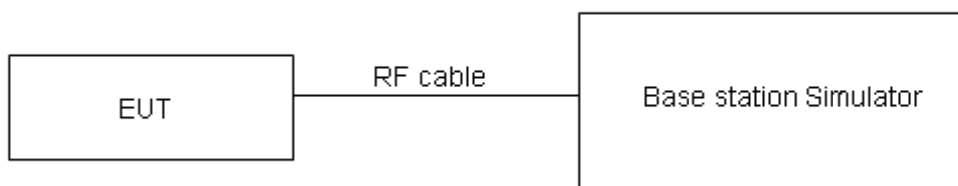
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB.

Test Results

WCDMA Band IV		AV Conducted Power(dBm)		
		Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6(MHz)
RMC		22.38	22.28	22.45
HSDPA	Sub - Test 1	22.21	22.11	22.28
	Sub - Test 2	22.29	22.19	22.36
	Sub - Test 3	21.78	21.68	21.85
	Sub - Test 4	21.77	21.67	21.84
HSUPA	Sub - Test 1	22.26	22.16	22.33
	Sub - Test 2	20.45	20.35	20.52
	Sub - Test 3	21.18	21.08	21.41
	Sub - Test 4	20.40	20.30	20.50
	Sub - Test 5	22.32	22.22	22.39
DC-HSDPA	Sub - Test 1	22.31	22.17	22.34
	Sub - Test 2	22.30	22.16	22.33
	Sub - Test 3	21.79	21.65	21.82
	Sub - Test 4	21.78	21.74	21.80
Note: 1) The maximum RF Output Power numbers are marks in bold. 2) The following testing in RMC based on the maximum RF Output Power.				

LTE TDD Band 4				AV Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	23.88	23.77	23.85
		1	2	23.70	23.88	23.91
		1	5	23.59	23.70	23.63
		3	0	23.52	23.56	23.41
		3	2	23.46	23.56	23.56
		3	3	23.40	23.31	23.45
		6	0	22.41	22.54	22.61
	16QAM	1	0	22.71	22.76	22.53
		1	2	22.94	22.82	22.84
		1	5	22.59	22.66	22.61
		3	0	22.77	22.43	22.51
		3	2	22.53	22.42	22.67
		3	3	22.30	22.46	22.40
		6	0	21.53	21.62	21.65
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.90	23.81	23.88
		1	7	23.73	23.93	23.95
		1	14	23.62	23.75	23.67
		8	0	22.62	22.68	22.54
		8	4	22.58	22.66	22.68
		8	7	22.50	22.42	22.55
		15	0	22.44	22.58	22.64
	16QAM	1	0	22.74	22.78	22.56
		1	7	22.97	22.87	22.88
		1	14	22.61	22.70	22.64
		8	0	21.88	21.56	21.63
		8	4	21.64	21.55	21.79
		8	7	21.40	21.58	21.53
		15	0	21.56	21.66	21.68
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	23.87	23.79	23.84
		1	13	23.71	23.89	23.92
		1	24	23.59	23.70	23.63
		12	0	22.59	22.63	22.50
		12	6	22.56	22.62	22.63
		12	13	22.48	22.40	22.51
		25	0	22.42	22.57	22.62



	16QAM	1	0	22.71	22.74	22.53
		1	13	22.94	22.85	22.85
		1	24	22.58	22.68	22.60
		12	0	21.86	21.52	21.60
		12	6	21.61	21.50	21.75
		12	13	21.37	21.53	21.49
		25	0	21.54	21.62	21.63
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20000/1715	20175/1732.5	20350/1750
10MHz	QPSK	1	0	23.89	23.80	23.87
		1	25	23.74	23.94	23.96
		1	49	23.61	23.74	23.66
		25	0	22.62	22.68	22.54
		25	13	22.59	22.67	22.67
		25	25	22.50	22.44	22.56
		50	0	22.50	22.59	22.66
	16QAM	1	0	22.73	22.77	22.55
		1	25	22.97	22.89	22.88
		1	49	22.61	22.70	22.63
		25	0	21.89	21.57	21.64
		25	13	21.63	21.54	21.78
		25	25	21.40	21.58	21.53
		50	0	21.57	21.67	21.67
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20025/1717.5	20175/1732.5	20325/1747.5
15MHz	QPSK	1	0	23.88	23.76	23.85
		1	38	23.72	23.93	23.93
		1	74	23.58	23.69	23.62
		36	0	22.60	22.64	22.51
		36	18	22.56	22.62	22.63
		36	39	22.47	22.41	22.52
		75	0	22.48	22.55	22.61
	16QAM	1	0	22.68	22.75	22.53
		1	38	22.95	22.86	22.86
		1	74	22.58	22.66	22.60
		36	0	21.86	21.55	21.61
		36	18	21.60	21.49	21.74
		36	39	21.38	21.54	21.50
		75	0	21.54	21.62	21.63
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0	23.85	23.72	23.82
		1	50	23.71	23.89	23.91



		1	99	23.56	23.68	23.59
		50	0	22.57	22.59	22.47
		50	25	22.54	22.58	22.60
		50	50	22.44	22.36	22.48
		100	0	22.45	22.50	22.57
	16QAM	1	0	22.66	22.71	22.48
		1	50	22.91	22.84	22.82
		1	99	22.56	22.63	22.58
		50	0	21.83	21.51	21.58
		50	25	21.57	21.47	21.71
		50	50	21.35	21.49	21.46
		100	0	21.52	21.58	21.60

Note:

1) The following testing in worst case based on the maximum RF Output Power.

LTE FDD Band 7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20775/2502.5	21100/2535	21425/2567.5
5MHz	QPSK	1	0	22.97	22.91	22.96
		1	13	22.73	22.61	22.89
		1	24	22.91	22.58	22.65
		12	0	21.61	21.87	22.14
		12	6	21.71	21.63	21.93
		12	13	21.56	21.52	21.48
		25	0	21.62	21.76	21.81
	16QAM	1	0	21.64	21.87	22.12
		1	13	21.89	21.52	22.07
		1	24	21.91	21.46	21.09
		12	0	20.28	20.50	20.88
		12	6	20.42	20.32	20.75
		12	13	20.26	20.22	20.26
		25	0	20.52	20.42	20.57
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20800/2505	21100/2535	21400/2565
10MHz	QPSK	1	0	22.99	22.92	22.99
		1	25	22.76	22.66	22.93
		1	49	22.93	22.62	22.68
		25	0	21.64	21.92	22.18
		25	13	21.74	21.68	21.97
		25	25	21.58	21.56	21.53
		50	0	21.70	21.78	21.85
	16QAM	1	0	21.66	21.90	22.14



		1	25	21.92	21.56	22.10
		1	49	21.94	21.48	21.12
		25	0	20.31	20.55	20.92
		25	13	20.44	20.36	20.78
		25	25	20.29	20.27	20.30
		50	0	20.55	20.47	20.61
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20825/2507.5	21100/2535	21375/2562.5
15MHz	QPSK	1	0	22.98	22.88	22.97
		1	38	22.74	22.65	22.90
		1	74	22.90	22.57	22.64
		36	0	21.62	21.88	22.15
		36	18	21.71	21.63	21.93
		36	39	21.55	21.53	21.49
		75	0	21.68	21.74	21.80
	16QAM	1	0	21.61	21.88	22.12
		1	38	21.90	21.53	22.08
		1	74	21.91	21.44	21.09
		36	0	20.28	20.53	20.89
		36	18	20.41	20.31	20.74
		36	39	20.27	20.23	20.27
		75	0	20.52	20.42	20.57
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency (MHz)		
				20850/2510	21100/2535	21350/2560
20MHz	QPSK	1	0	22.95	22.84	22.94
		1	50	22.73	22.61	22.88
		1	99	22.88	22.56	22.61
		50	0	21.59	21.83	22.11
		50	25	21.69	21.59	21.90
		50	50	21.52	21.48	21.45
		100	0	21.65	21.69	21.76
	16QAM	1	0	21.59	21.84	22.07
		1	50	21.86	21.51	22.04
		1	99	21.89	21.41	21.07
		50	0	20.25	20.49	20.86
		50	25	20.38	20.29	20.71
		50	50	20.24	20.18	20.23
		100	0	20.50	20.38	20.54

4.2 Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

The measurement procedures in TIA- 603-D are used.

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antennatower.
3. UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

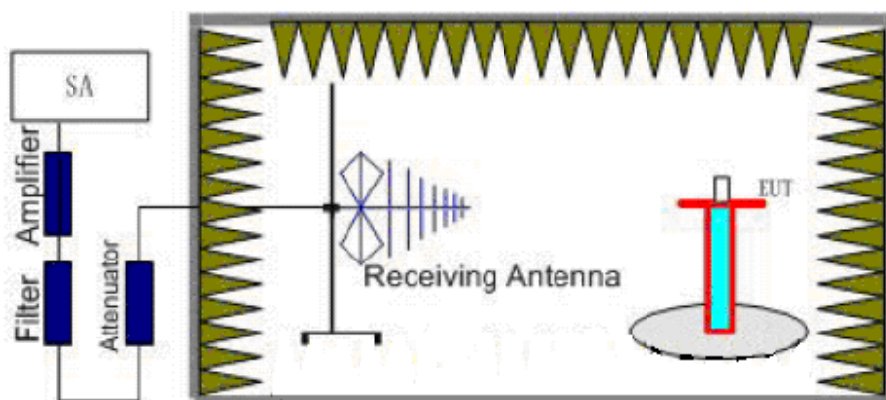
AF (dB/m) : Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

$EIRP = E.R.P + 2.15$

Test Setup



**Limits**

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

Part 27.50(d)(4) Limit (EIRP) -LTE 4/WCDMA Band 4	$\leq$ 1 W (30 dBm)
Part 27.50(h)(2) Limit (EIRP)-LTE 7	$\leq$ 2 W (33 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 1.19$ dB

Test Results

WCDMA Band IV							
Frequency (MHz)	Ant Pot (H/V)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	Conclusion
1712.4	H	-24.40	-45.44	0.00	1.13	22.44	Pass
1732.6	H	-24.40	-45.38	0.00	1.24	21.98	Pass
1752.6	H	-24.52	-45.38	0.00	1.35	21.35	Pass
1712.4	V	-23.45	-45.54	0.00	1.13	22.37	Pass
1732.6	V	-23.36	-45.46	0.00	1.24	21.83	Pass
1752.6	V	-23.43	-45.49	0.00	1.35	21.18	Pass

LTE Band 4								
Bandwidth	Frequency (MHz)	Ant Pot (H/V)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	Conclusion
1.4MHz (QPSK)	1710.7	H	-34.26	-54.30	0.00	1.44	21.48	Pass
	1732.5	H	-34.48	-54.32	0.00	1.57	21.40	Pass
	1754.3	H	-34.50	-54.10	0.00	1.72	21.32	Pass
	1710.7	V	-34.61	-54.35	0.00	1.44	21.18	Pass
	1732.5	V	-34.86	-54.41	0.00	1.57	21.12	Pass
	1754.3	V	-35.03	-54.52	0.00	1.72	21.21	Pass
1.4MHz (16QAM)	1710.7	H	-34.56	-54.30	0.00	1.44	21.18	Pass
	1732.5	H	-34.80	-54.32	0.00	1.57	21.08	Pass
	1754.3	H	-34.82	-54.10	0.00	1.72	21.00	Pass
	1710.7	V	-34.94	-54.35	0.00	1.44	20.85	Pass
	1732.5	V	-35.18	-54.41	0.00	1.57	20.80	Pass
	1754.3	V	-35.33	-54.52	0.00	1.72	20.91	Pass
3MHz (QPSK)	1711.5	H	-33.95	-54.33	0.00	1.44	21.82	Pass
	1732.5	H	-34.20	-54.32	0.00	1.57	21.68	Pass
	1753.5	H	-34.45	-54.11	0.00	1.72	21.38	Pass
	1711.5	V	-35.07	-54.35	0.00	1.44	20.72	Pass
	1732.5	V	-35.58	-54.41	0.00	1.57	20.40	Pass
	1753.5	V	-34.92	-54.48	0.00	1.72	21.28	Pass
3MHz (16QAM)	1711.5	H	-34.25	-54.33	0.00	1.44	21.52	Pass
	1732.5	H	-34.51	-54.32	0.00	1.57	21.37	Pass
	1753.5	H	-34.78	-54.11	0.00	1.72	21.05	Pass
	1711.5	V	-35.37	-54.35	0.00	1.44	20.42	Pass
	1732.5	V	-35.90	-54.41	0.00	1.57	20.08	Pass
	1753.5	V	-35.25	-54.48	0.00	1.72	20.95	Pass
5MHz (QPSK)	1712.5	H	-34.05	-54.34	0.00	1.44	21.73	Pass
	1732.5	H	-34.12	-54.32	0.00	1.57	21.76	Pass
	1752.5	H	-34.48	-54.13	0.00	1.72	21.36	Pass
	1712.5	V	-34.91	-54.38	0.00	1.44	20.91	Pass
	1732.5	V	-35.02	-54.41	0.00	1.57	20.96	Pass



	1752.5	V	-34.94	-54.47	0.00	1.72	21.25	Pass
5MHz (16QAM)	1712.5	H	-34.35	-54.34	0.00	1.44	21.43	Pass
	1732.5	H	-34.43	-54.32	0.00	1.57	21.45	Pass
	1752.5	H	-34.79	-54.13	0.00	1.72	21.05	Pass
	1712.5	V	-35.22	-54.38	0.00	1.44	20.60	Pass
	1732.5	V	-35.38	-54.41	0.00	1.57	20.60	Pass
	1752.5	V	-35.24	-54.47	0.00	1.72	20.95	Pass
10MHz (QPSK)	1715	H	-33.97	-54.33	0.00	1.44	21.80	Pass
	1732.5	H	-34.16	-54.32	0.00	1.57	21.72	Pass
	1750	H	-33.99	-54.12	0.00	1.66	21.79	Pass
	1715	V	-35.03	-54.32	0.00	1.44	20.73	Pass
	1732.5	V	-34.77	-54.41	0.00	1.57	21.21	Pass
	1750	V	-34.52	-54.52	0.00	1.66	21.66	Pass
10MHz (16QAM)	1715	H	-34.27	-54.33	0.00	1.44	21.50	Pass
	1732.5	H	-34.46	-54.32	0.00	1.57	21.42	Pass
	1750	H	-34.30	-54.12	0.00	1.66	21.48	Pass
	1715	V	-35.36	-54.32	0.00	1.44	20.40	Pass
	1732.5	V	-35.08	-54.41	0.00	1.57	20.90	Pass
	1750	V	-34.88	-54.52	0.00	1.66	21.30	Pass
15MHz (QPSK)	1717.5	H	-34.08	-54.35	0.00	1.49	21.75	Pass
	1732.5	H	-34.16	-54.32	0.00	1.57	21.72	Pass
	1747.5	H	-34.10	-54.17	0.00	1.66	21.73	Pass
	1717.5	V	-34.66	-54.39	0.00	1.49	21.22	Pass
	1732.5	V	-34.46	-54.41	0.00	1.57	21.52	Pass
	1747.5	V	-34.75	-54.51	0.00	1.66	21.42	Pass
15MHz (16QAM)	1717.5	H	-34.38	-54.35	0.00	1.49	21.45	Pass
	1732.5	H	-34.48	-54.32	0.00	1.57	21.40	Pass
	1747.5	H	-34.42	-54.17	0.00	1.66	21.41	Pass
	1717.5	V	-34.97	-54.39	0.00	1.49	20.91	Pass
	1732.5	V	-34.77	-54.41	0.00	1.57	21.21	Pass
	1747.5	V	-35.06	-54.51	0.00	1.66	21.11	Pass
20MHz (QPSK)	1720	H	-34.02	-54.37	0.00	1.49	21.84	Pass
	1732.5	H	-33.99	-54.32	0.00	1.57	21.89	Pass
	1745	H	-34.08	-54.23	0.00	1.63	21.78	Pass
	1720	V	-34.54	-54.44	0.00	1.49	21.39	Pass
	1732.5	V	-34.54	-54.41	0.00	1.57	21.44	Pass
	1745	V	-34.57	-54.59	0.00	1.63	21.65	Pass
20MHz (16QAM)	1720	H	-34.34	-54.37	0.00	1.49	21.52	Pass
	1732.5	H	-34.29	-54.32	0.00	1.57	21.59	Pass
	1745	H	-34.38	-54.23	0.00	1.63	21.48	Pass
	1720	V	-34.55	-54.44	0.00	1.49	21.38	Pass
	1732.5	V	-34.86	-54.41	0.00	1.57	21.12	Pass
	1745	V	-34.89	-54.59	0.00	1.63	21.33	Pass

LTE Band 7								
Band width	Frequency (MHz)	Ant Pot (H/V)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	Conclusion
5MHz (QPSK)	2502.5	H	-39.13	-59.64	0.00	1.81	22.32	Pass
	2535	H	-39.55	-59.72	0.00	1.81	21.98	Pass
	2567.5	H	-39.57	-59.98	0.00	1.83	22.24	Pass
	2502.5	V	-46.01	-59.31	0.00	1.81	15.11	Pass
	2535	V	-46.95	-59.11	0.00	1.81	13.97	Pass
	2567.5	V	-46.56	-59.59	0.00	1.83	14.86	Pass
5MHz (16QAM)	2502.5	H	-39.45	-59.64	0.00	1.81	22.00	Pass
	2535	H	-39.85	-59.72	0.00	1.81	21.68	Pass
	2567.5	H	-39.88	-59.98	0.00	1.83	21.93	Pass
	2502.5	V	-46.32	-59.31	0.00	1.81	14.80	Pass
	2535	V	-47.26	-59.11	0.00	1.81	13.66	Pass
	2567.5	V	-46.87	-59.59	0.00	1.83	14.55	Pass
10MHz (QPSK)	2505	H	-38.70	-59.61	0.00	1.82	22.73	Pass
	2535	H	-39.12	-59.72	0.00	1.81	22.41	Pass
	2565	H	-39.50	-60.02	0.00	1.81	22.33	Pass
	2505	V	-45.69	-59.33	0.00	1.82	15.46	Pass
	2535	V	-46.60	-59.11	0.00	1.81	14.32	Pass
	2565	V	-46.74	-59.59	0.00	1.81	14.66	Pass
10MHz (16QAM)	2505	H	-39.01	-59.61	0.00	1.82	22.42	Pass
	2535	H	-39.42	-59.72	0.00	1.81	22.11	Pass
	2565	H	-39.83	-60.02	0.00	1.81	22.00	Pass
	2505	V	-46.00	-59.33	0.00	1.82	15.15	Pass
	2535	V	-46.92	-59.11	0.00	1.81	14.00	Pass
	2565	V	-47.05	-59.59	0.00	1.81	14.35	Pass
15MHz (QPSK)	2507.5	H	-38.93	-59.71	0.00	1.80	22.58	Pass
	2535	H	-39.28	-59.72	0.00	1.81	22.25	Pass
	2562.5	H	-39.50	-60.08	0.00	1.82	22.40	Pass
	2507.5	V	-45.59	-59.29	0.00	1.80	15.50	Pass
	2535	V	-47.39	-59.72	0.00	1.81	14.14	Pass
	2562.5	V	-46.67	-59.46	0.00	1.82	14.61	Pass
15MHz (16QAM)	2507.5	H	-39.26	-59.71	0.00	1.80	22.25	Pass
	2535	H	-39.58	-59.72	0.00	1.81	21.95	Pass
	2562.5	H	-39.82	-60.08	0.00	1.82	22.08	Pass
	2507.5	V	-45.89	-59.29	0.00	1.80	15.20	Pass
	2535	V	-47.70	-59.72	0.00	1.81	13.83	Pass
	2562.5	V	-46.98	-59.46	0.00	1.82	14.30	Pass
20MHz (QPSK)	2510	H	-38.55	-59.52	0.00	1.77	22.74	Pass
	2535	H	-39.18	-59.72	0.00	1.81	22.35	Pass
	2560	H	-39.35	-60.01	0.00	1.82	22.48	Pass



	2510	V	-45.31	-59.09	0.00	1.77	15.55	Pass
	2535	V	-46.90	-59.72	0.00	1.81	14.63	Pass
	2560	V	-46.70	-59.52	0.00	1.82	14.64	Pass
20MHz (16QAM)	2510	H	-38.87	-59.52	0.00	1.77	22.42	Pass
	2535	H	-39.48	-59.72	0.00	1.81	22.05	Pass
	2560	H	-39.68	-60.01	0.00	1.82	22.15	Pass
	2510	V	-45.61	-59.09	0.00	1.77	15.25	Pass
	2535	V	-47.21	-59.72	0.00	1.81	14.32	Pass
	2560	V	-47.03	-59.52	0.00	1.82	14.31	Pass

Note: 1. EIRP= E.R.P+2.15

4.3 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to 51 kHz, VBW is set to 160 kHz for WCDMA Band IV.

RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 4 (1.4MHz).

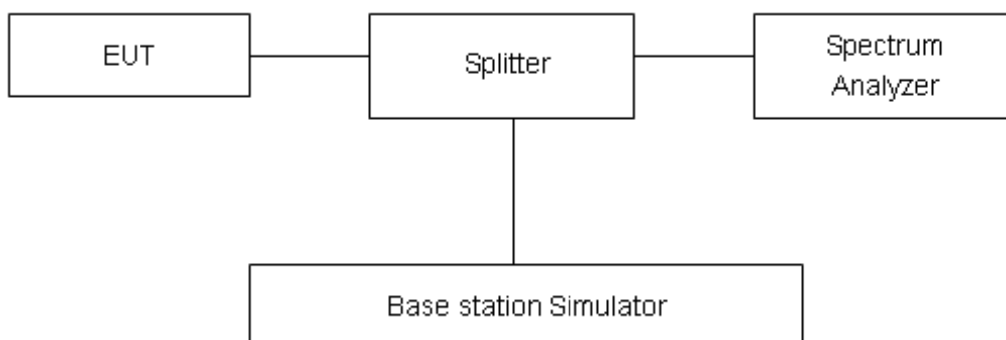
RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 4 (3MHz).

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 4/7 (5MHz).

RBW is set to 300 kHz, VBW is set to 1MHz for LTE Band 4/7 (10MHz/15MHz/20MHz).

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Result



Mode	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.1469	4.681
	1413	1732.6	4.1511	4.688
	1513	1752.6	4.1498	4.679

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.1150	1.329
			20175	1732.5	1.1286	1.340
			20393	1754.3	1.1264	1.334
		3	19965	1711.5	2.7367	3.045
			20175	1732.5	2.7431	3.070
			20385	1753.5	2.7403	3.049
		5	19975	1712.5	4.5187	5.050
			20175	1732.5	4.5397	5.008
			20375	1752.5	4.5101	4.986
		10	20000	1715	9.0334	10.09
			20175	1732.5	9.0436	10.14
			20350	1750	9.0538	10.08
		15	20025	1717.5	13.455	14.77
			20175	1732.5	13.512	14.85
			20325	1747.5	13.494	14.87
		20	20050	1720	17.888	19.31
			20175	1732.5	17.932	19.38
			20300	1745	17.928	19.45
	16QAM	1.4	19957	1710.7	1.1142	1.325
			20175	1732.5	1.1274	1.318
			20393	1754.3	1.1277	1.331
		3	19965	1711.5	2.7335	3.055
			20175	1732.5	2.7462	3.032
			20385	1753.5	2.7343	3.064
		5	19975	1712.5	4.5335	4.985
			20175	1732.5	4.5084	5.021
			20375	1752.5	4.5308	5.035
		10	20000	1715	9.0433	10.02
			20175	1732.5	9.0570	10.02
			20350	1750	9.0526	10.07
		15	20025	1717.5	13.503	14.79



			20175	1732.5	13.490	14.80
			20325	1747.5	13.502	14.87
		20	20050	1720	17.914	19.37
			20175	1732.5	17.896	19.35
			20300	1745	17.891	19.37

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.5197	5.053
			21100	2535	4.5233	5.050
			21425	2567.5	4.5064	5.002
		10	20800	2505	9.0454	10.15
			21100	2535	9.0681	10.14
			21400	2565	9.0519	10.10
		15	20825	2507.5	13.474	14.79
			21100	2535	13.539	14.84
			21375	2562.5	13.505	14.79
		20	20850	2510	17.930	19.30
			21100	2535	17.916	19.37
			21350	2560	17.924	19.43
	16QAM	5	20775	2502.5	4.5399	5.066
			21100	2535	4.5167	5.013
			21425	2567.5	4.5342	5.071
		10	20800	2505	9.0345	10.06
			21100	2535	9.0769	10.01
			21400	2565	9.0435	10.06
		15	20825	2507.5	13.521	14.77
			21100	2535	13.506	14.73
			21375	2562.5	13.492	14.68
		20	20850	2510	17.934	19.49
			21100	2535	17.961	19.52
			21350	2560	17.914	19.39



WCDMA Band IV CH-Low



WCDMA Band IV CH Middle

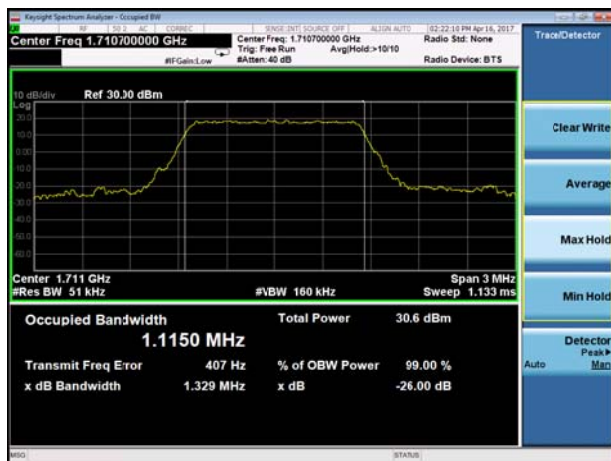


WCDMA Band IV CH High

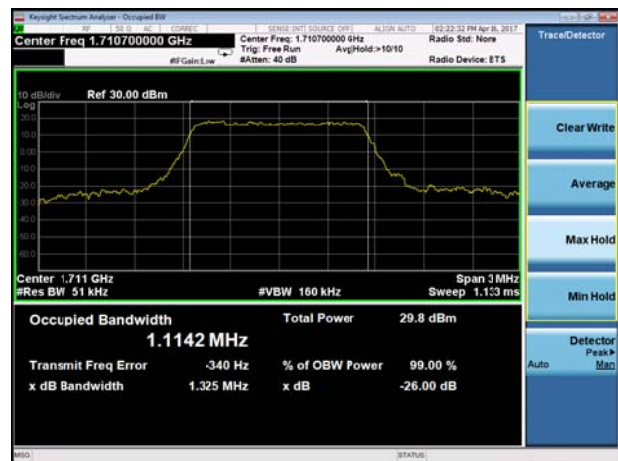




LTE Band 4 QPSK 1.4MHz CH-Low



LTE Band 4 16QAM 1.4MHz CH-Low



LTE Band 4 QPSK 1.4MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

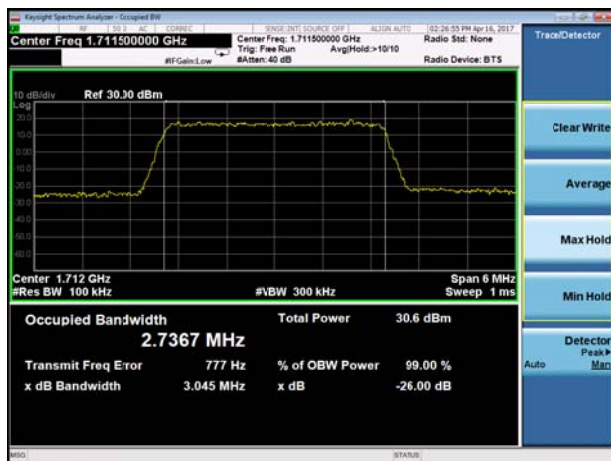


LTE Band 4 16QAM 1.4MHz CH-High





LTE Band 4 QPSK 3MHz CH-Low



LTE Band 4 16QAM 3MHz CH-Low



LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 QPSK 3MHz CH-High



LTE Band 4 16QAM 3MHz CH-High





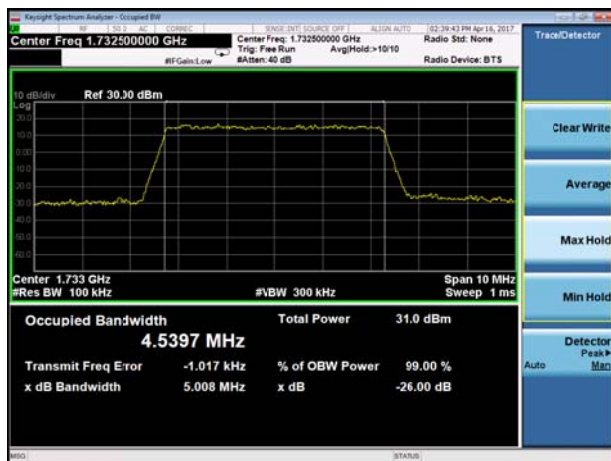
LTE Band 4 QPSK 5MHz CH-Low



LTE Band 4 16QAM 5MHz CH-Low



LTE Band 4 QPSK 5MHz CH-Middle



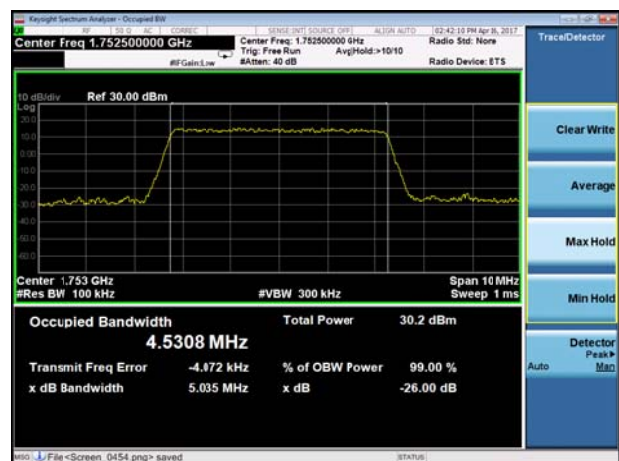
LTE Band 4 16QAM 5MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High



LTE Band 4 16QAM 5MHz CH-High





LTE Band 4 QPSK 10MHz CH-Low



LTE Band 4 16QAM 10MHz CH-Low



LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 QPSK 10MHz CH-High

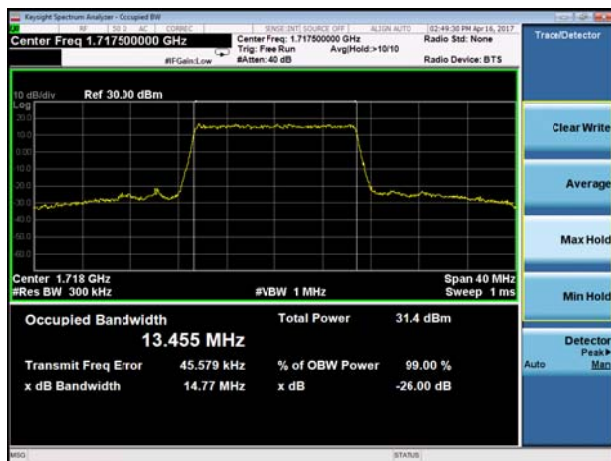


LTE Band 4 16QAM 10MHz CH-High

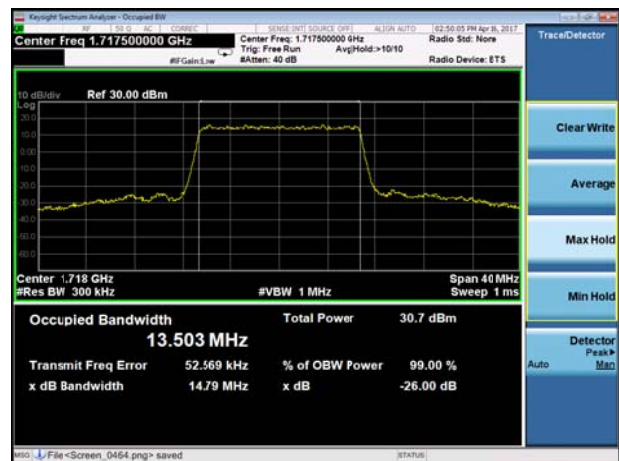




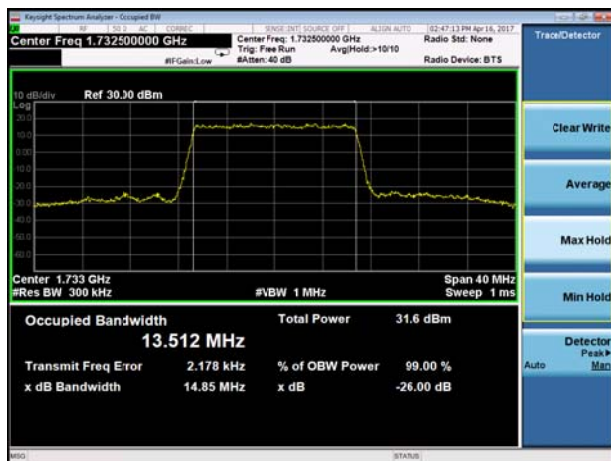
LTE Band 4 QPSK 15MHz CH-Low



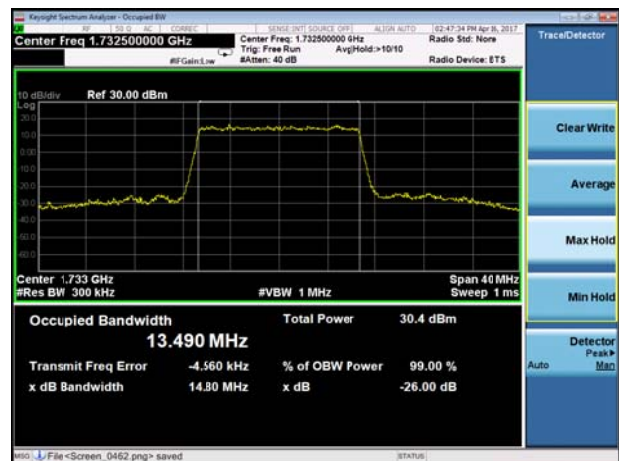
LTE Band 4 16QAM 15MHz CH-Low



LTE Band 4 QPSK 15MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-High

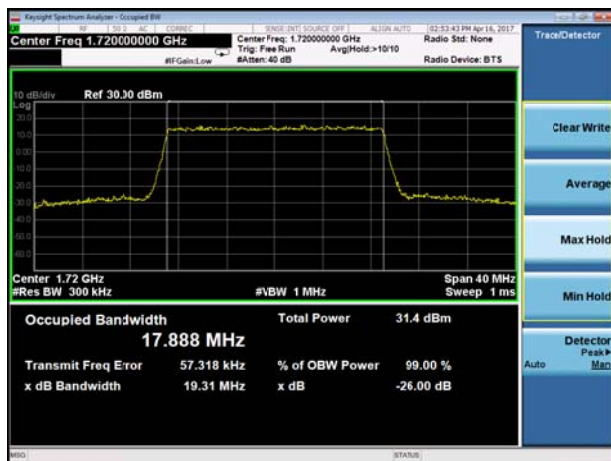


LTE Band 4 16QAM 15MHz CH-High





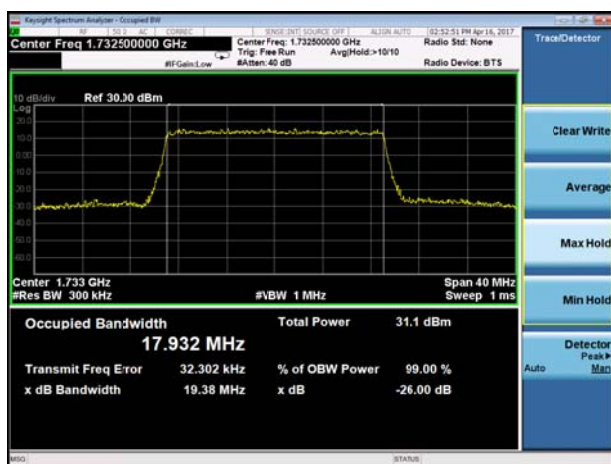
LTE Band 4 QPSK 20MHz CH-Low



LTE Band 4 16QAM 20MHz CH-Low



LTE Band 4 QPSK 20MHz CH-Middle



LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 QPSK 20MHz CH-High



LTE Band 4 16QAM 20MHz CH-High





LTE Band 7 QPSK 5MHz CH-Low



LTE Band 7 16QAM 5MHz CH-Low



LTE Band 7 QPSK 5MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High



LTE Band 7 16QAM 5MHz CH-High





LTE Band 7 QPSK 10MHz CH-Low



LTE Band 7 16QAM 10MHz CH-Low



LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 QPSK 10MHz CH-High



LTE Band 7 16QAM 10MHz CH-High





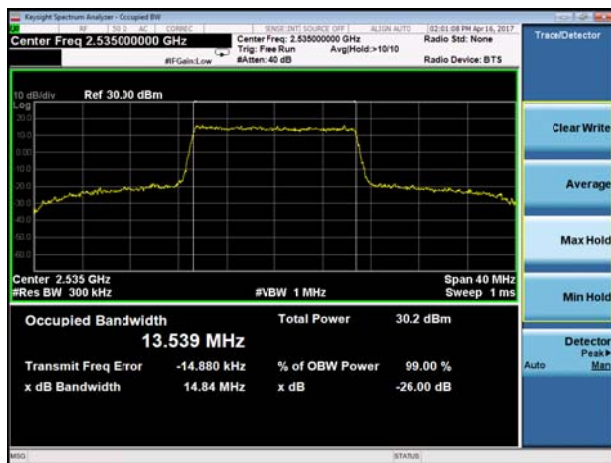
LTE Band 7 QPSK 15MHz CH-Low



LTE Band 7 16QAM 15MHz CH-Low



LTE Band 7 QPSK 15MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High

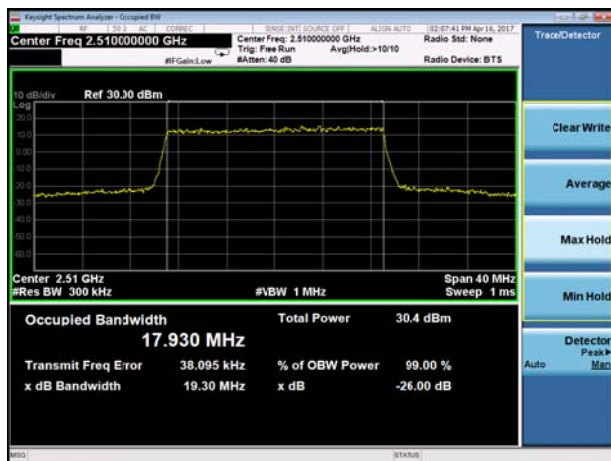


LTE Band 7 16QAM 15MHz CH-High

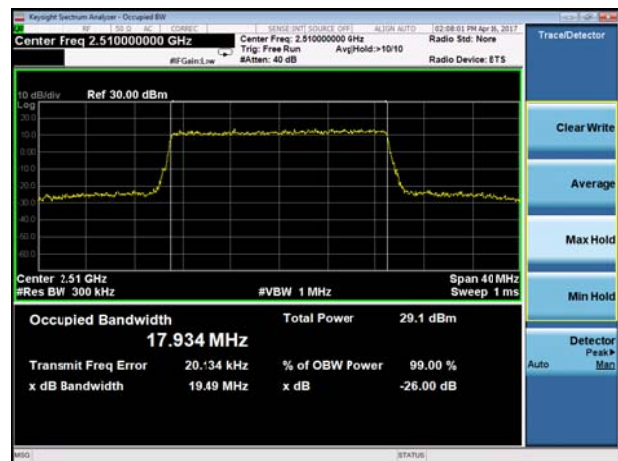




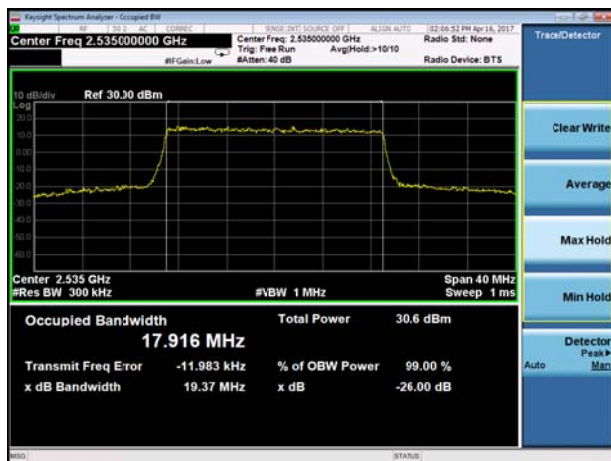
LTE Band 7 QPSK 20MHz CH-Low



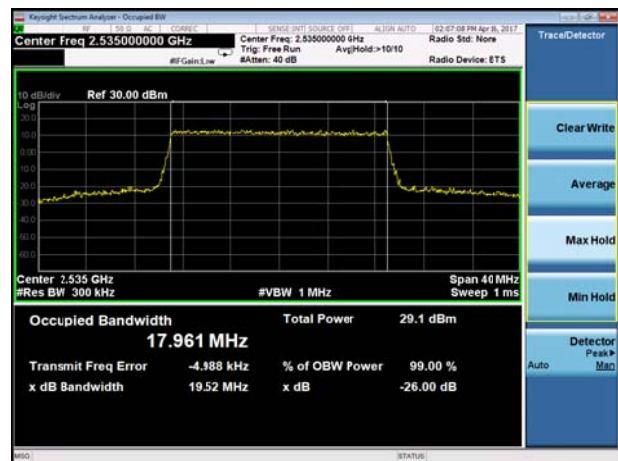
LTE Band 7 16QAM 20MHz CH-Low



LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 QPSK 20MHz CH-High



LTE Band 7 16QAM 20MHz CH-High



4.4 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

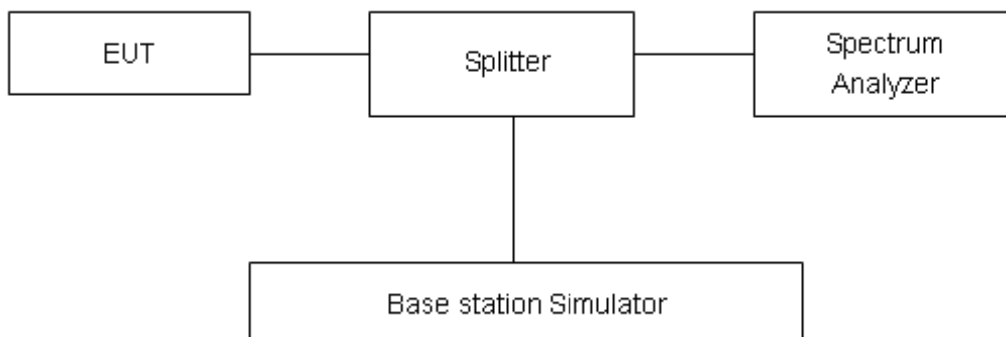
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 v02r02 Section 6.0

- 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. For LTE Band 41 Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
RBW is set to 51 kHz, VBW is set to 160 kHz for WCDMA Band IV.
RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 4 (1.4MHz).
RBW is set to 30 kHz, VBW is set to 100 kHz for LTE Band 4 (3MHz).
RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 4/7 (5MHz).
RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 4/7 (10MHz).
RBW is set to 150 kHz, VBW is set to 510 kHz for LTE Band 4/7 (15MHz).
RBW is set to 200 kHz, VBW is set to 620 kHz for LTE Band 4/7 (20MHz) on spectrum analyzer.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule Part 27.53(h)/ specifies that “ for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Part 27.53(m) (4)/ specifies that “for BRS and EBS stations. 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)(4) 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.

Example:

The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10 \log(P)] \text{ (dB)}$$

$$= [30 + 10 \log (P)] \text{ (dBm)} - [43 + 10 \log(P)] \text{ (dB)} = -13 \text{ dBm.}$$

Measurement Uncertainty

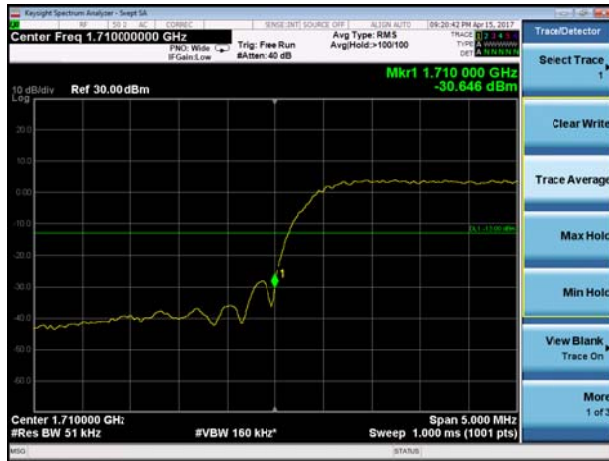
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684 \text{ dB}$.



Test Result

All the test traces in the plots shows the test results clearly.

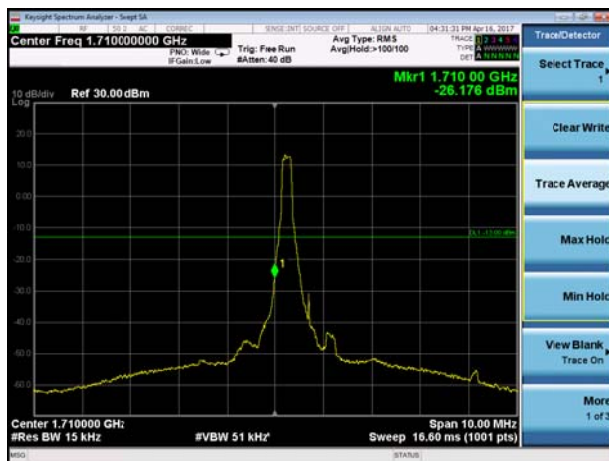
WCDMA Band IV CH-Low



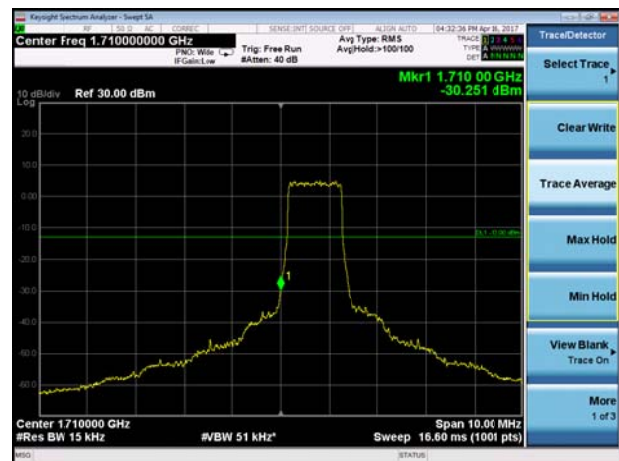
WCDMA Band IV CH1513



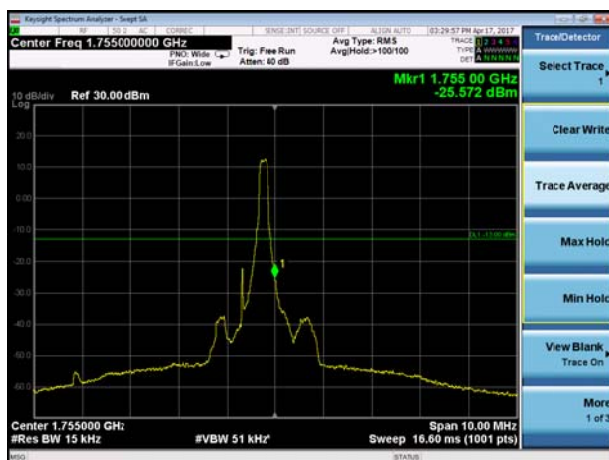
LTE Band 4 QPSK 1.4MHz CH-Low, RB 1



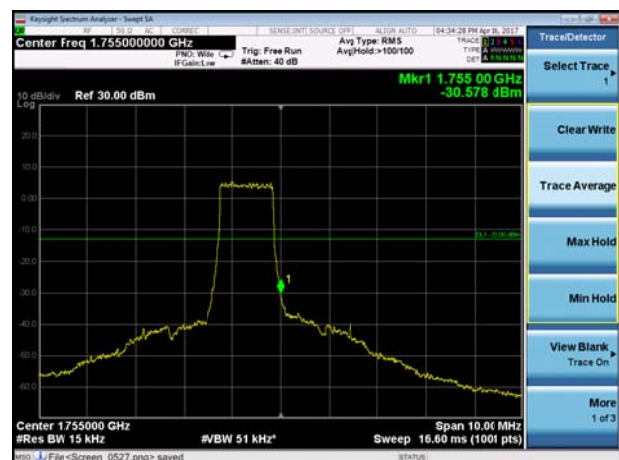
LTE Band 4 QPSK 1.4MHz CH-Low, RB 6



LTE Band 4 QPSK 1.4MHz CH-High, RB 1

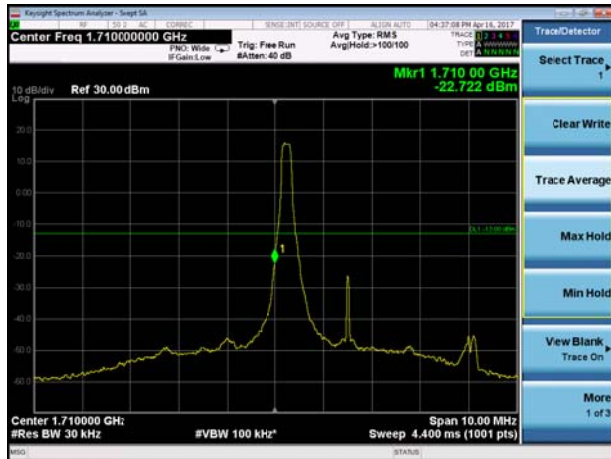


LTE Band 4 QPSK 1.4MHz CH-High, RB 6

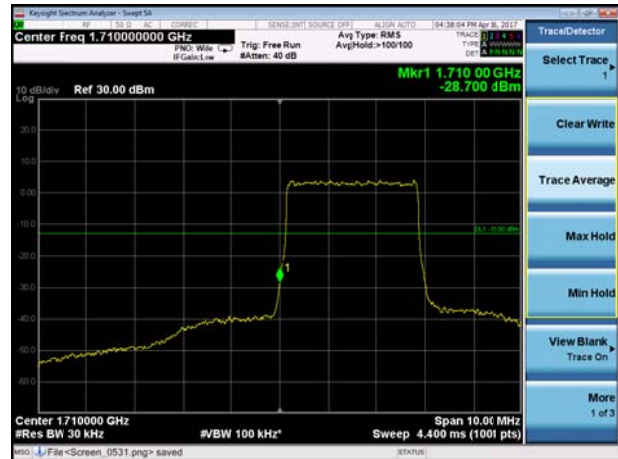




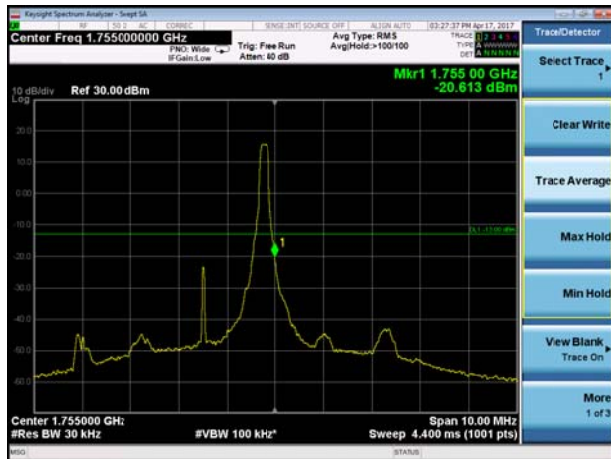
LTE Band 4 QPSK 3MHz CH-Low, RB 1



LTE Band 4 QPSK 3MHz CH-Low, RB 15



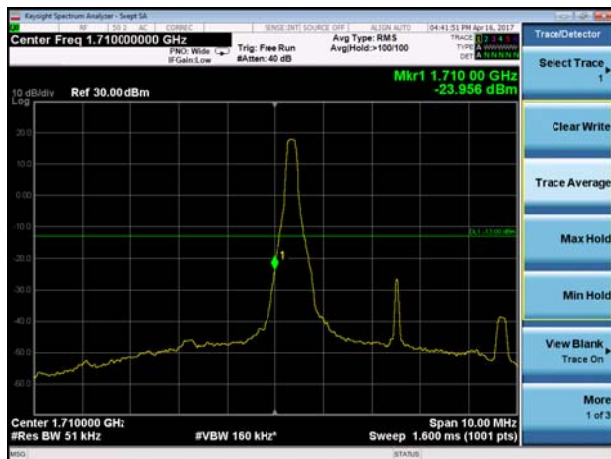
LTE Band 4 QPSK 3MHz CH-High, RB 1



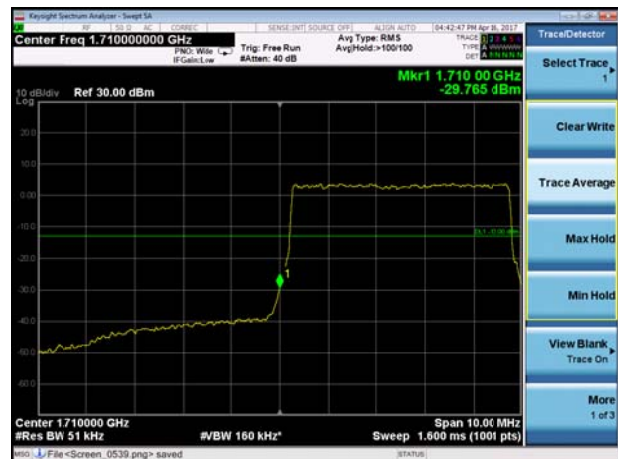
LTE Band 4 QPSK 3MHz CH-High, RB 15



LTE Band 4 QPSK 5MHz CH-Low, RB 1

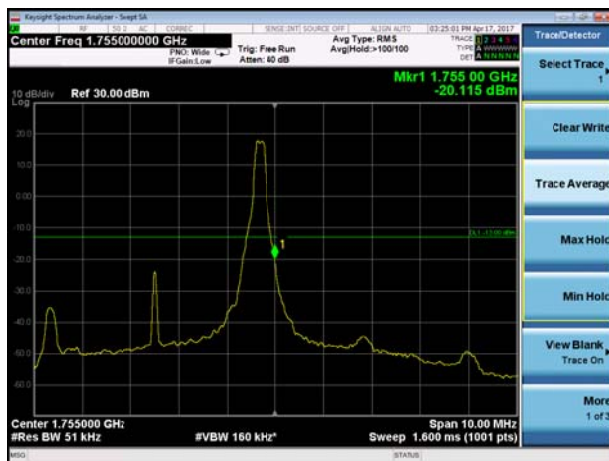


LTE Band 4 QPSK 5MHz CH-Low, RB 25





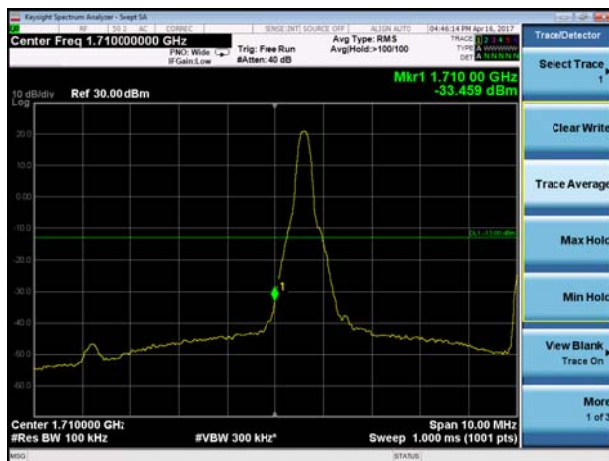
LTE Band 4 QPSK 5MHz CH-High, RB 1



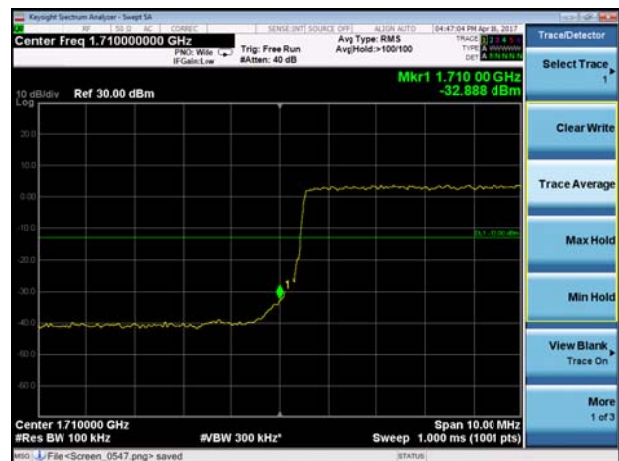
LTE Band 4 QPSK 5MHz CH-High, RB 25



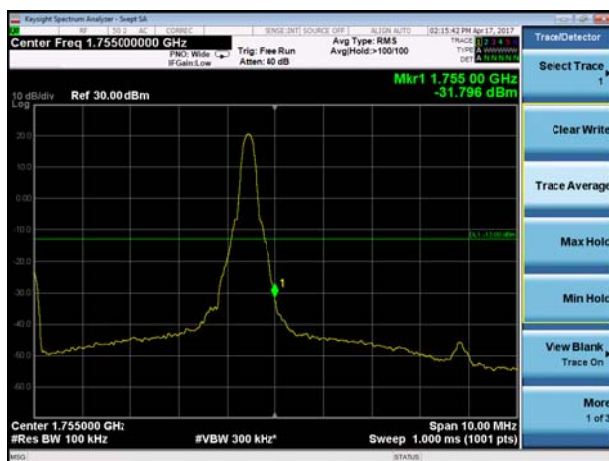
LTE Band 4 QPSK 10MHz CH-Low, RB 1



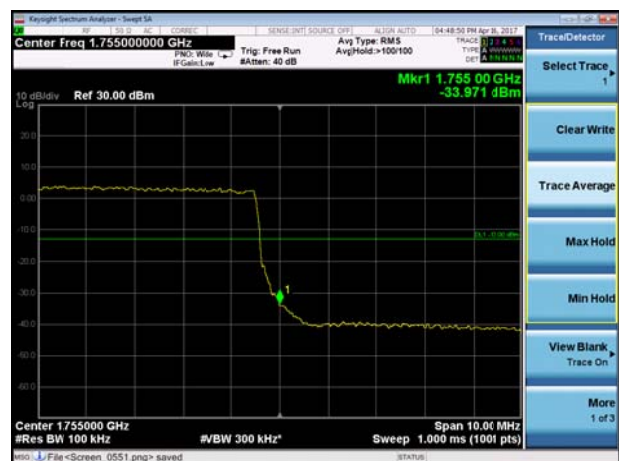
LTE Band 4 QPSK 10MHz CH-Low, RB 50



LTE Band 4 QPSK 10MHz CH-High, RB 1

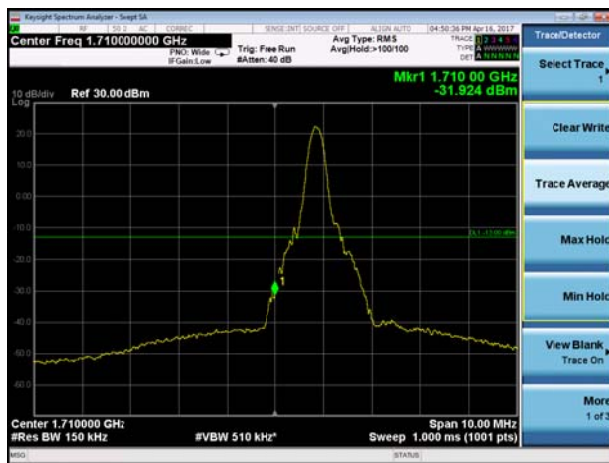


LTE Band 4 QPSK 10MHz CH-High, RB 50





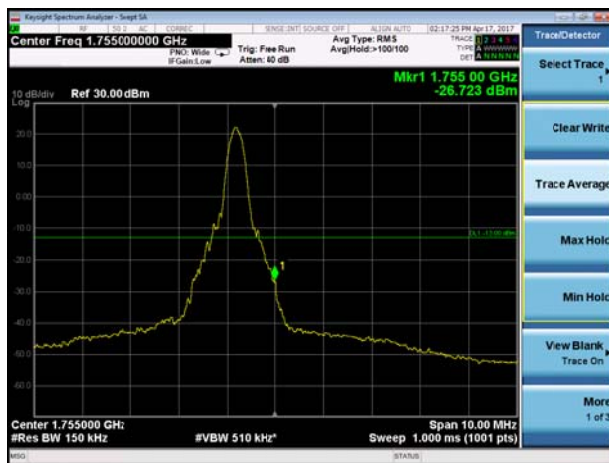
LTE Band 4 QPSK 15MHz CH-Low, RB 1



LTE Band 4 QPSK 15MHz CH-Low, RB 75



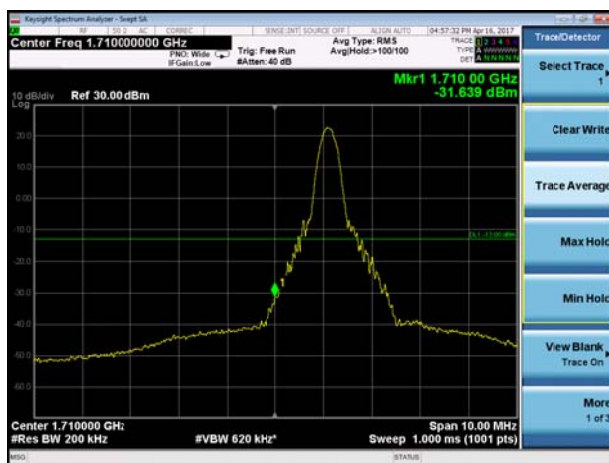
LTE Band 4 QPSK 15MHz CH-High, RB 1



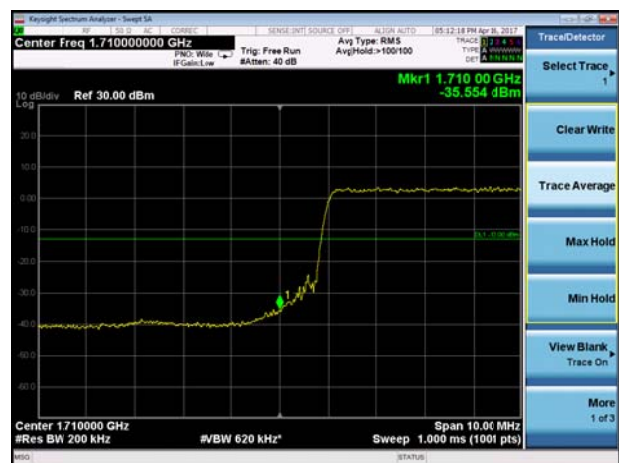
LTE Band 4 QPSK 15MHz CH-High, RB 75



LTE Band 4 QPSK 20MHz CH-Low, RB 1

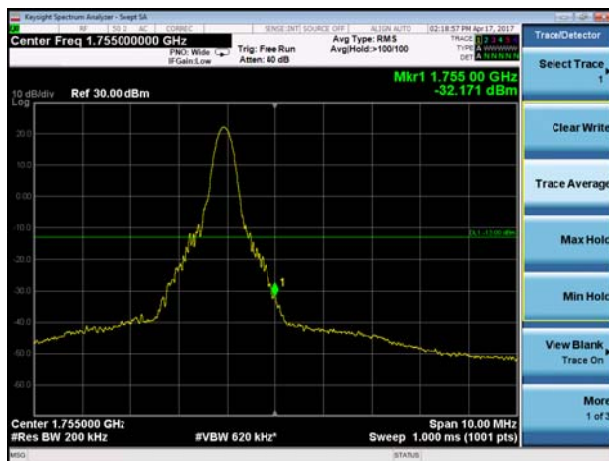


LTE Band 4 QPSK 20MHz CH-Low, RB 100





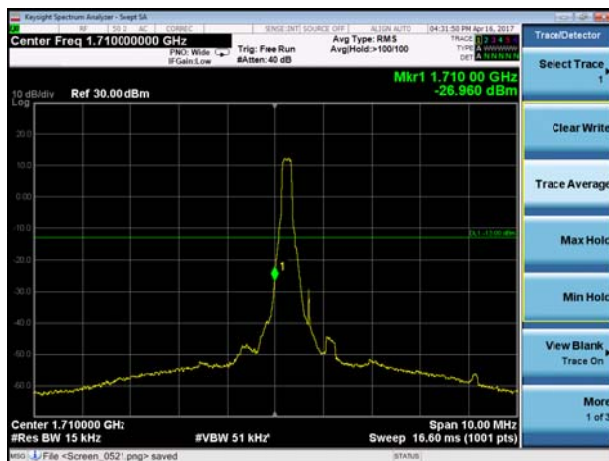
LTE Band 4 QPSK 20MHz CH-High, RB 1



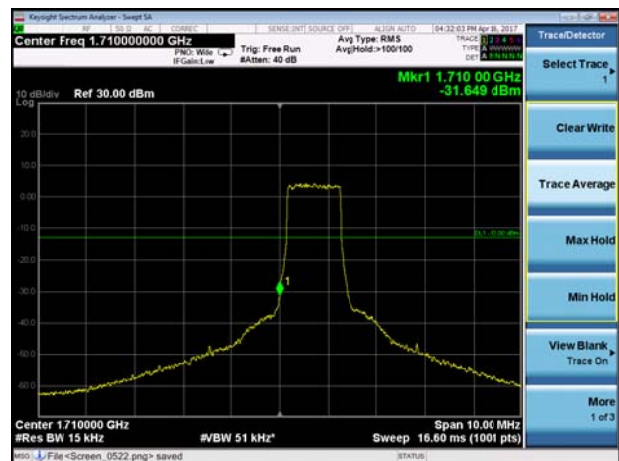
LTE Band 4 QPSK 20MHz CH-High, RB 100



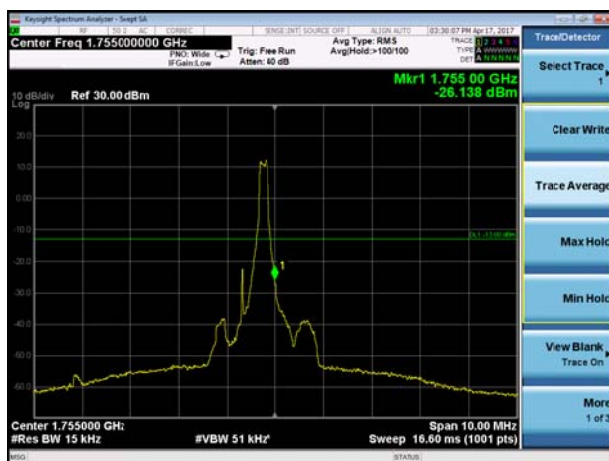
LTE Band 4 16QAM 1.4MHz CH-Low, RB 1



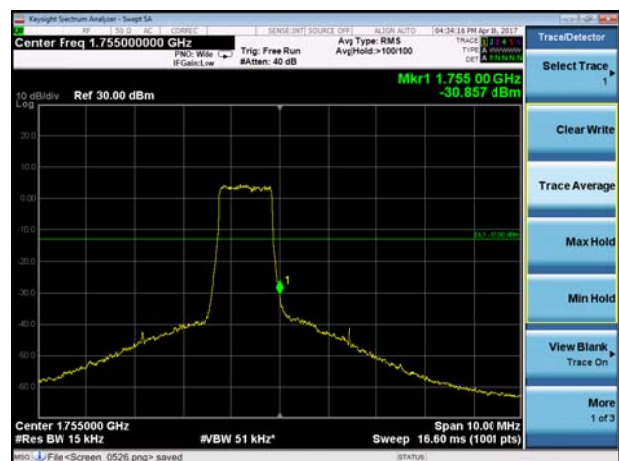
LTE Band 4 16QAM 1.4MHz CH-Low, RB 6



LTE Band 4 16QAM 1.4MHz CH-High, RB 1

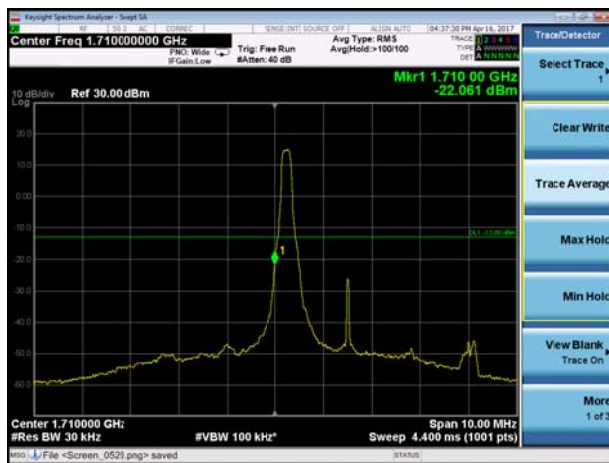


LTE Band 4 16QAM 1.4MHz CH-High, RB 6





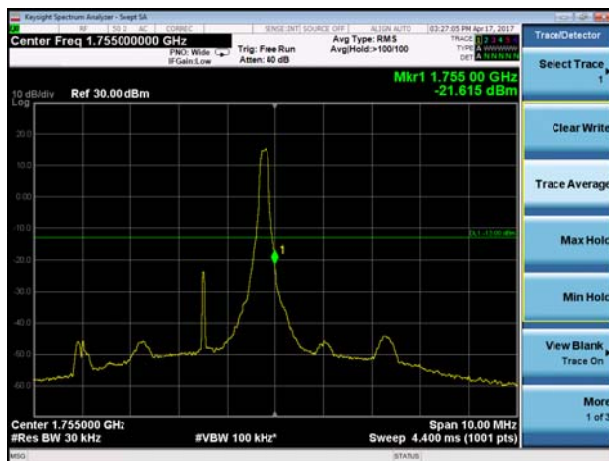
LTE Band 4 16QAM 3MHz CH-Low, RB 1



LTE Band 4 16QAM 3MHz CH-Low, RB 15



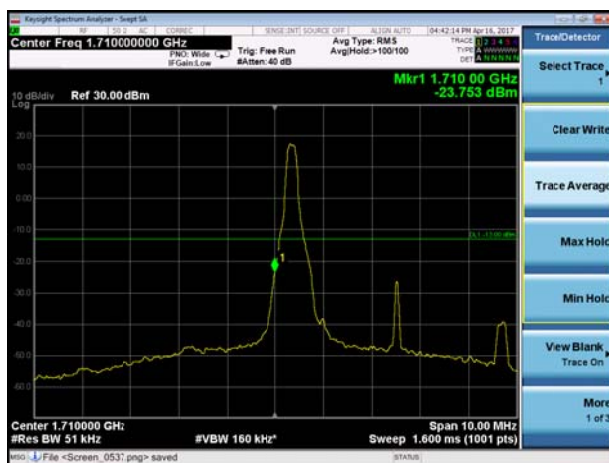
LTE Band 4 16QAM 3MHz CH-High, RB 1



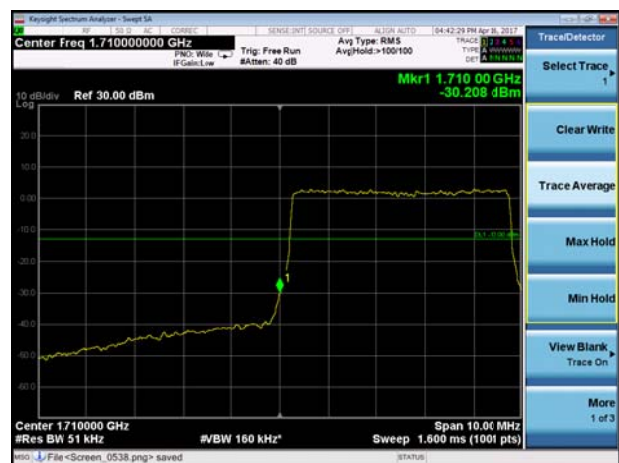
LTE Band 4 16QAM 3MHz CH-High, RB 15



LTE Band 4 16QAM 5MHz CH-Low, RB 1

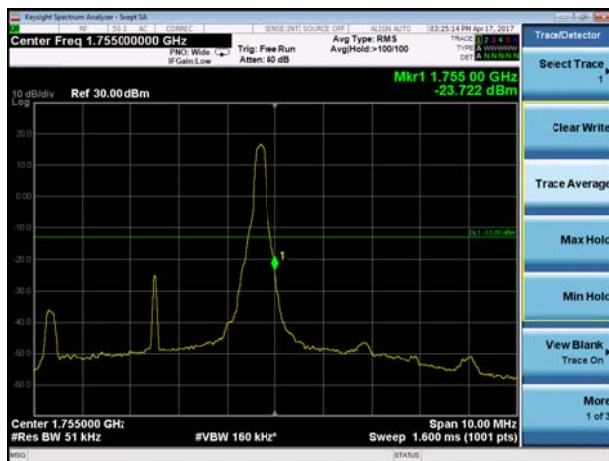


LTE Band 4 16QAM 5MHz CH-Low, RB 25





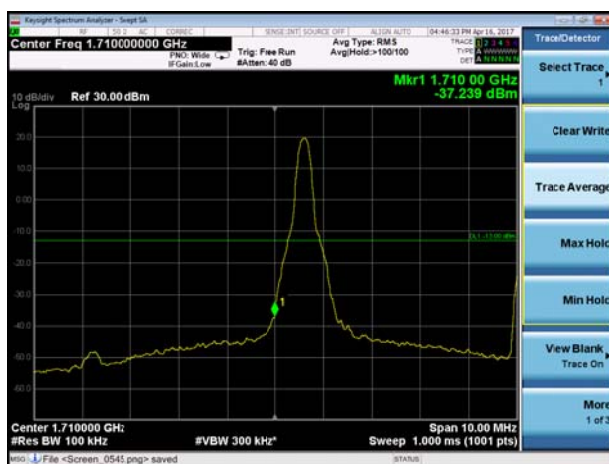
LTE Band 4 16QAM 5MHz CH-High, RB 1



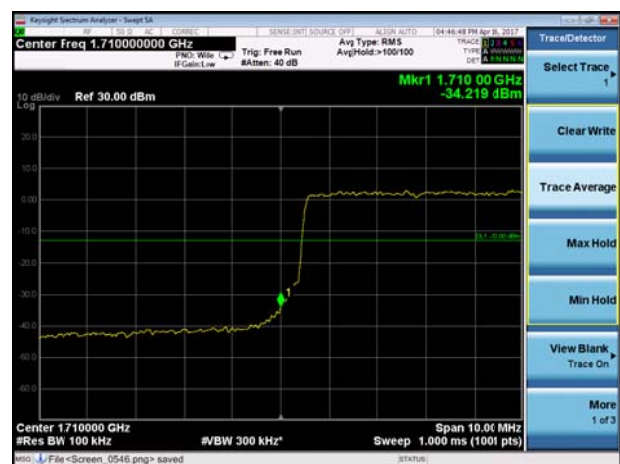
LTE Band 4 16QAM 5MHz CH-High, RB 25



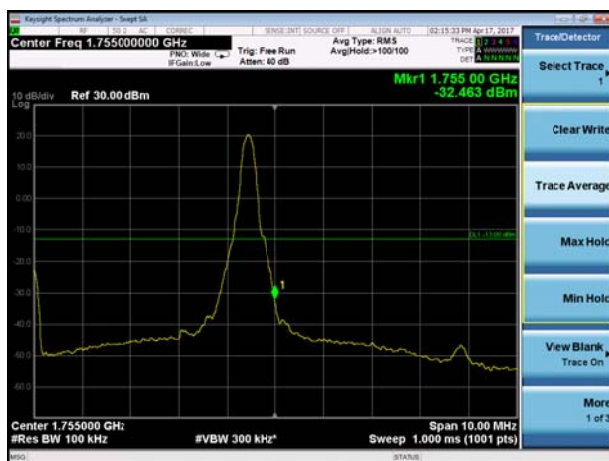
LTE Band 4 16QAM 10MHz CH-Low, RB 1



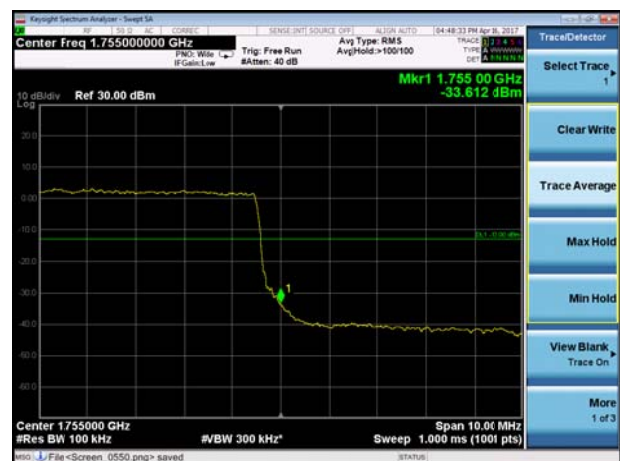
LTE Band 4 16QAM 10MHz CH-Low, RB 50



LTE Band 4 16QAM 10MHz CH-High, RB 1

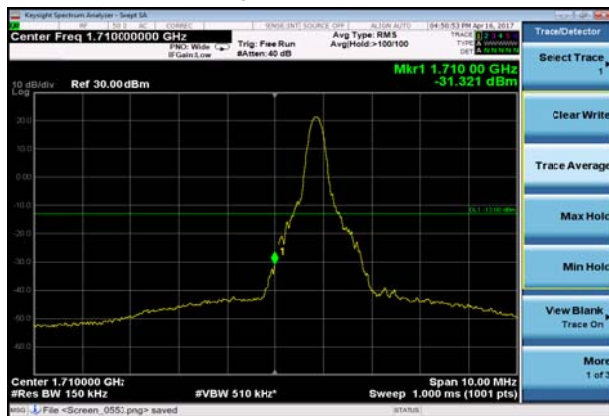


LTE Band 4 16QAM 10MHz CH-High, RB 50





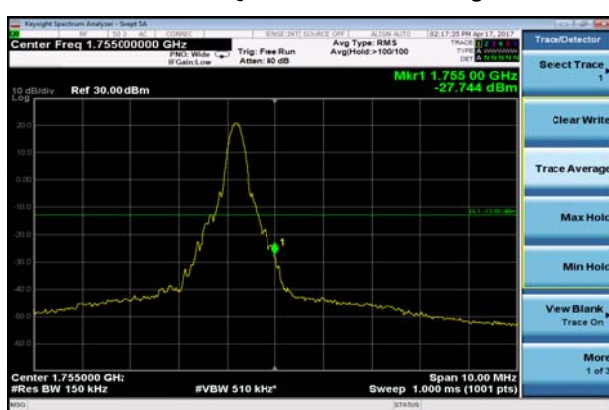
LTE Band 4 16QAM 15MHz CH-Low, RB 1



LTE Band 4 16QAM 15MHz CH-Low, RB 75



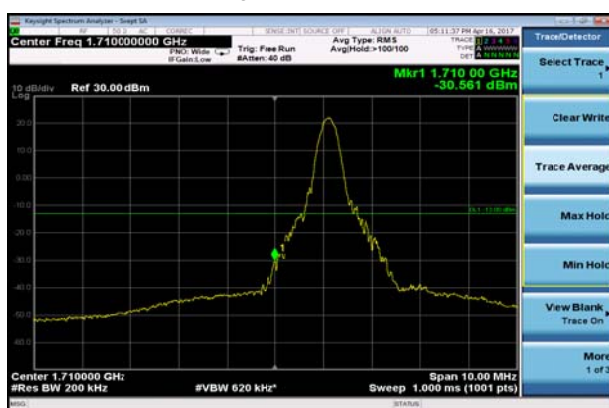
LTE Band 4 16QAM 15MHz CH-High, RB 1



LTE Band 4 16QAM 15MHz CH-High, RB 75



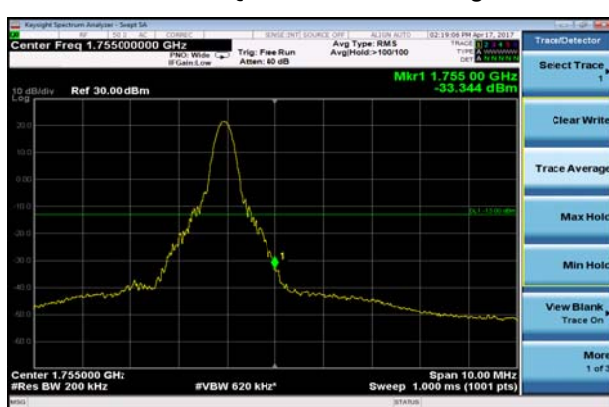
LTE Band 4 16QAM 20MHz CH-Low, RB 1



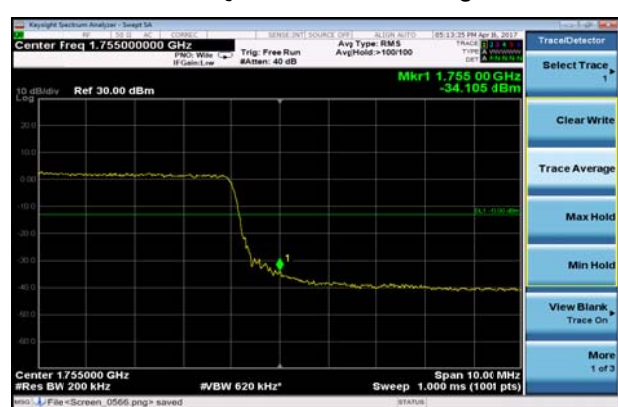
LTE Band 4 16QAM 20MHz CH-Low, RB 100



LTE Band 4 16QAM 20MHz CH-High, RB 1

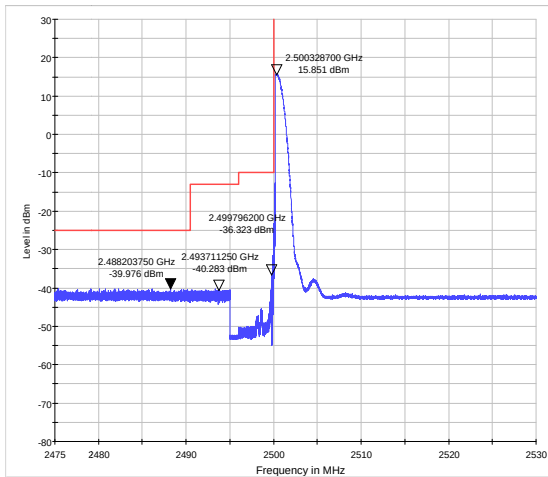


LTE Band 4 16QAM 20MHz CH-High, RB 100

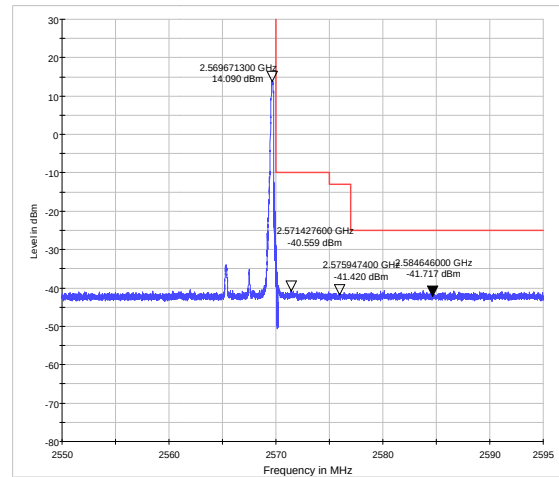




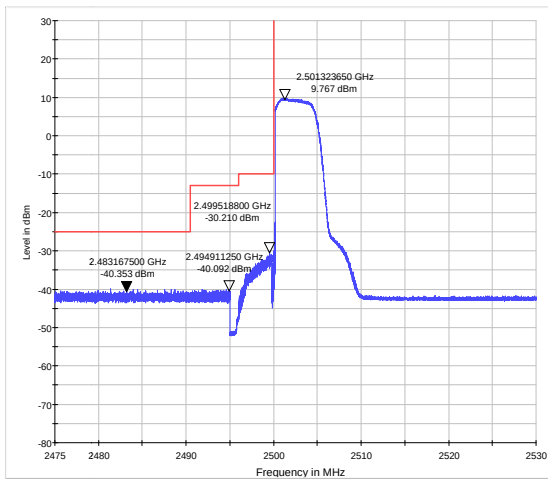
LTE Band 7 QPSK 5MHz CH-Low, RB 1



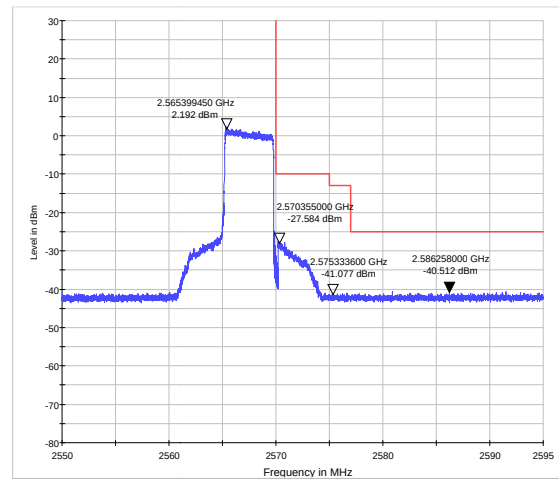
LTE Band 7 QPSK 5MHz CH-High, RB 1



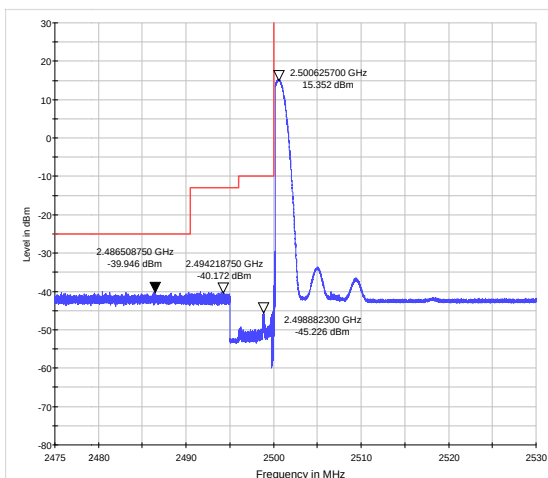
LTE Band 7 QPSK 5MHz CH-Low, RB 25



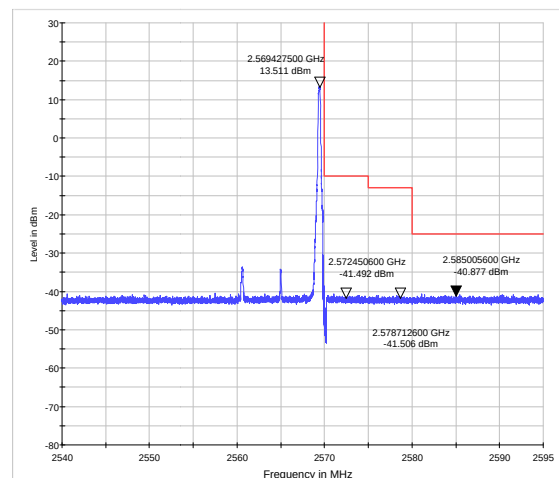
LTE Band 7 QPSK 5MHz CH-High, RB 25



LTE Band 7 QPSK 10MHz CH-Low, RB 1

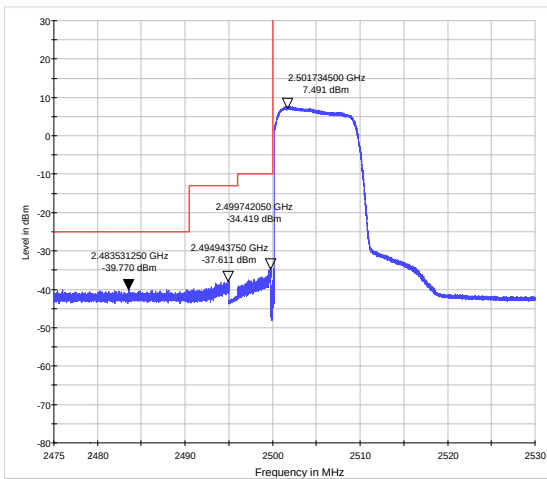


LTE Band 7 QPSK 10MHz CH-High, RB 1

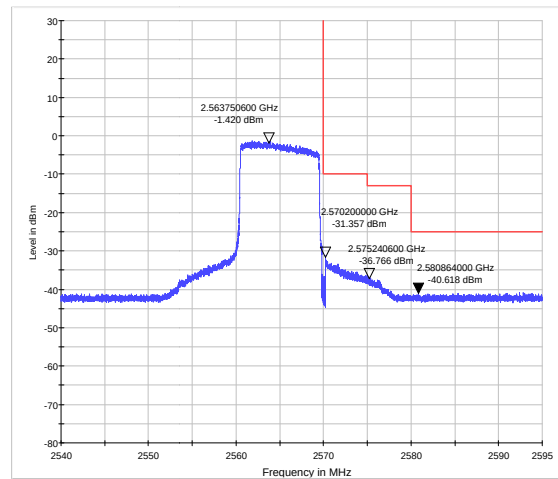




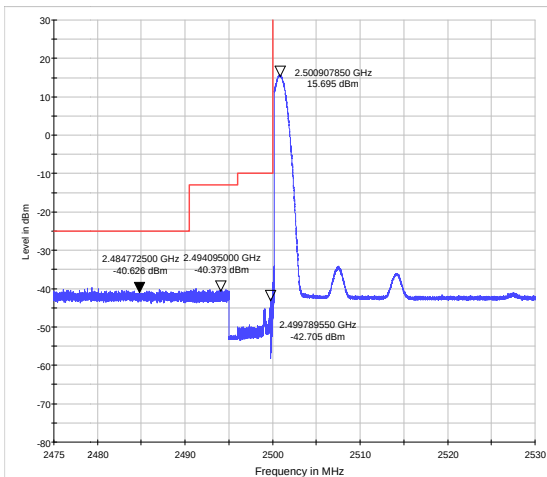
LTE Band 7 QPSK 10MHz CH-Low, RB 50



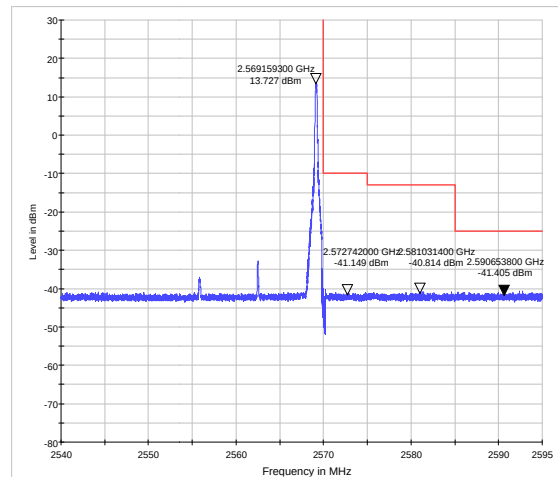
LTE Band 7 QPSK 10MHz CH-High, RB 50



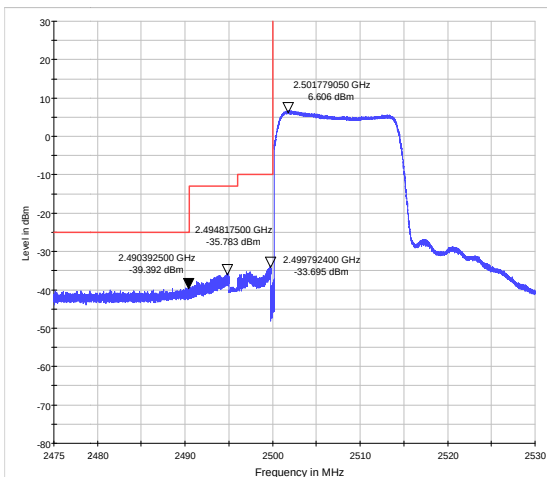
LTE Band 7 QPSK 15MHz CH-Low, RB 1



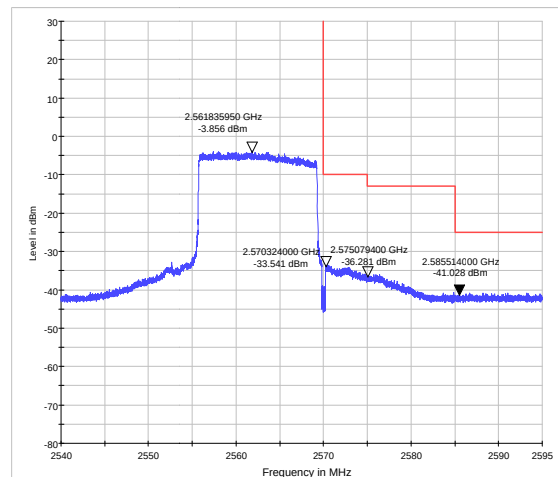
LTE Band 7 QPSK 15MHz CH-High, RB 1



LTE Band 7 QPSK 15MHz CH-Low, RB 75

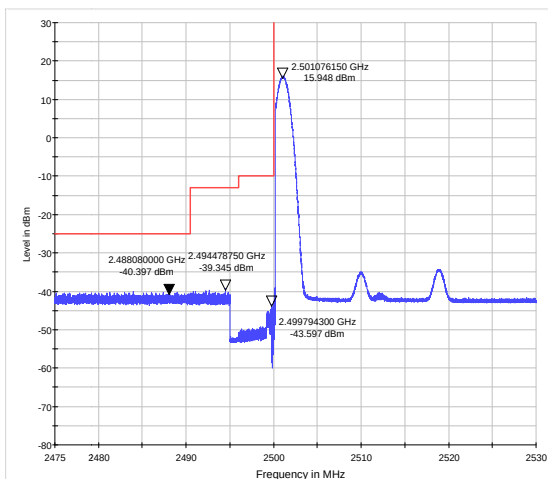


LTE Band 7 QPSK 15MHz CH-High, RB 75

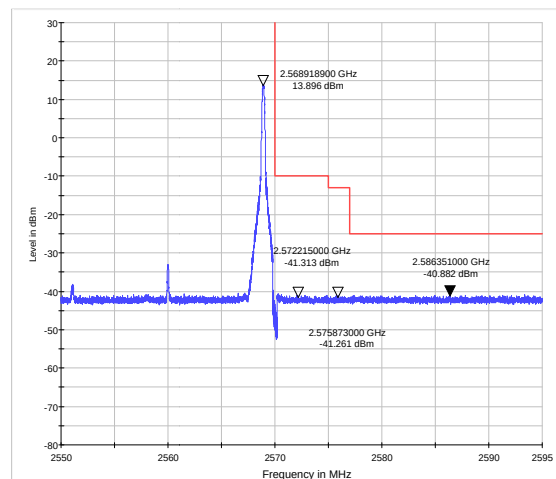




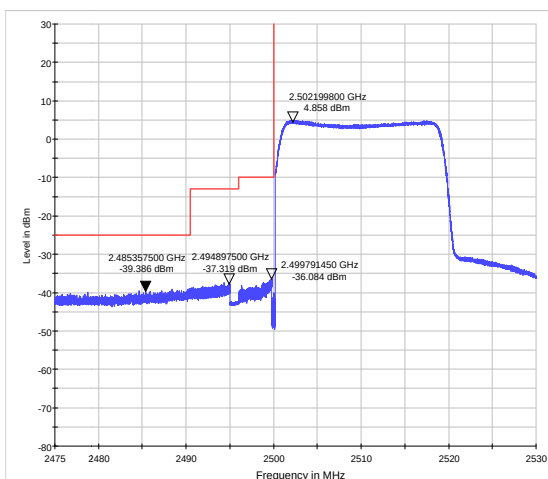
LTE Band 7 QPSK 20MHz CH-Low, RB 1



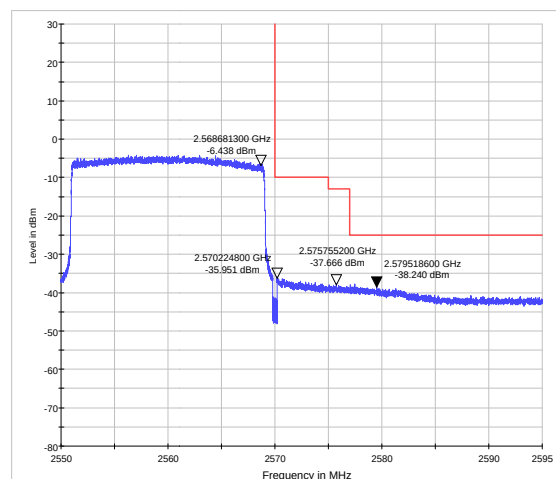
LTE Band 7 QPSK 20MHz CH-High, RB 1



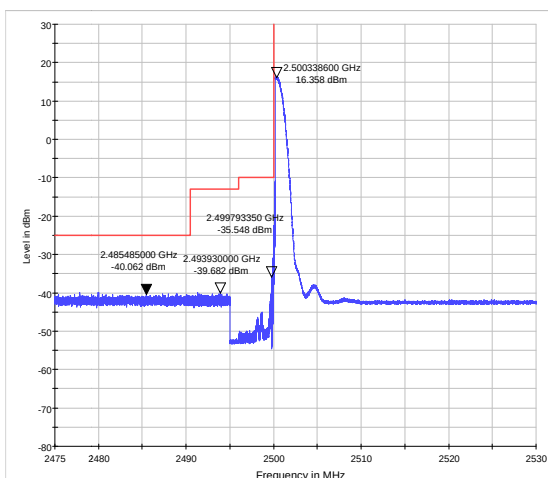
LTE Band 7 QPSK 20MHz CH-Low, RB 100



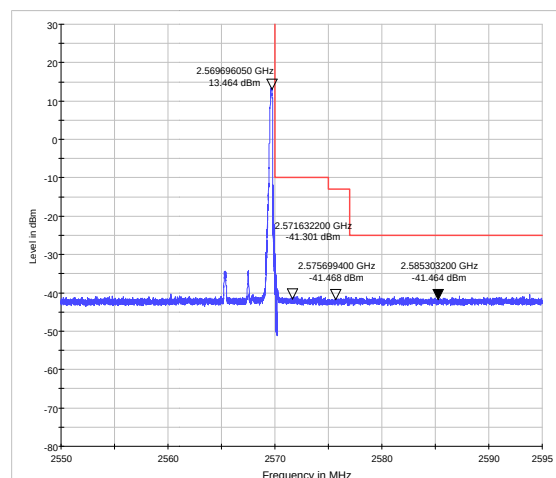
LTE Band 7 QPSK 20MHz CH-High, RB 100



LTE Band 7 16QAM 5MHz CH-Low, RB 1

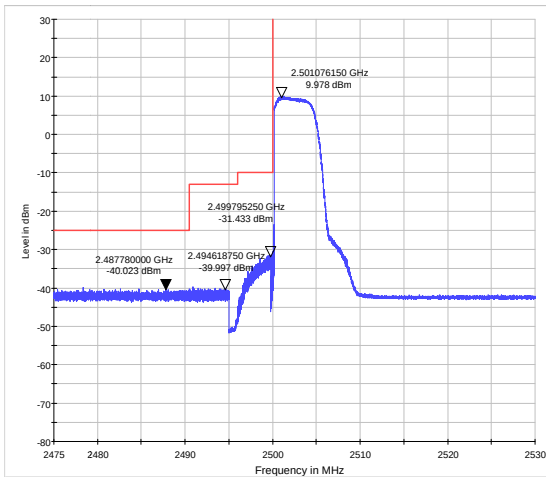


LTE Band 7 16QAM 5MHz CH-High, RB 1

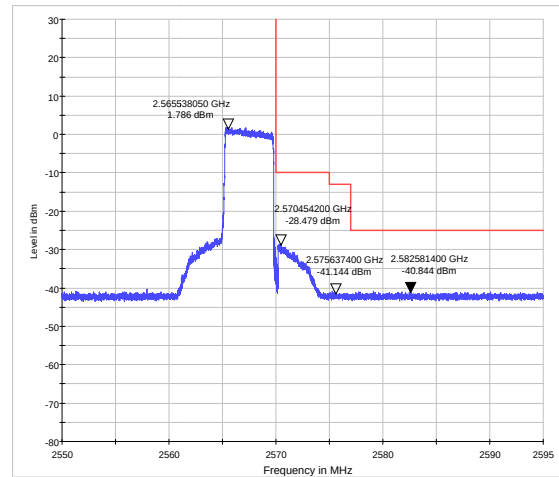




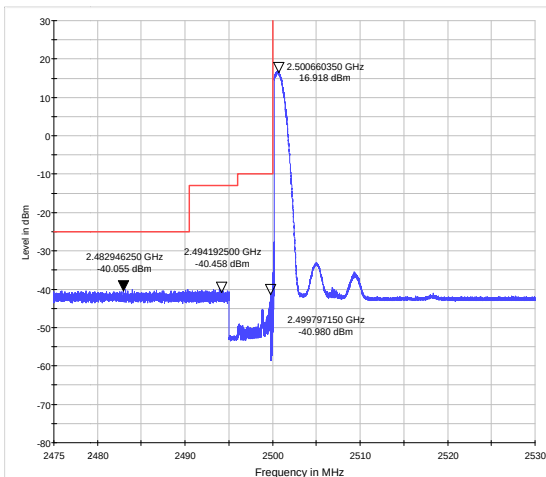
LTE Band 7 16QAM 5MHz CH-Low, RB 25



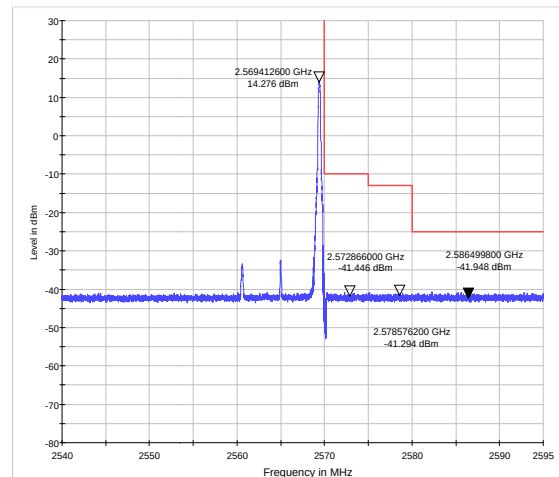
LTE Band 7 16QAM 5MHz CH-High, RB 25



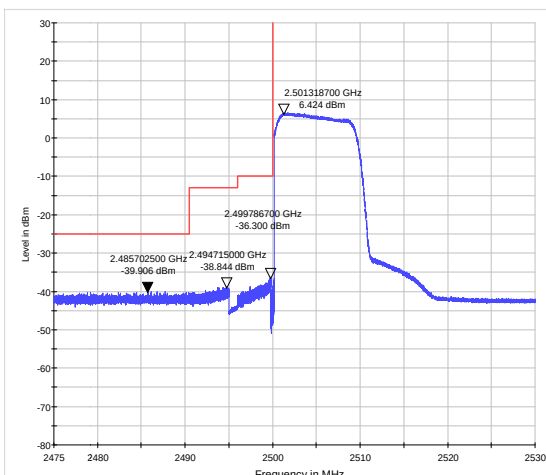
LTE Band 7 16QAM 10MHz CH-Low, RB 1



LTE Band 7 16QAM 10MHz CH-High, RB 1



LTE Band 7 16QAM 10MHz CH-Low, RB 50



LTE Band 7 16QAM 10MHz CH-High, RB 50

