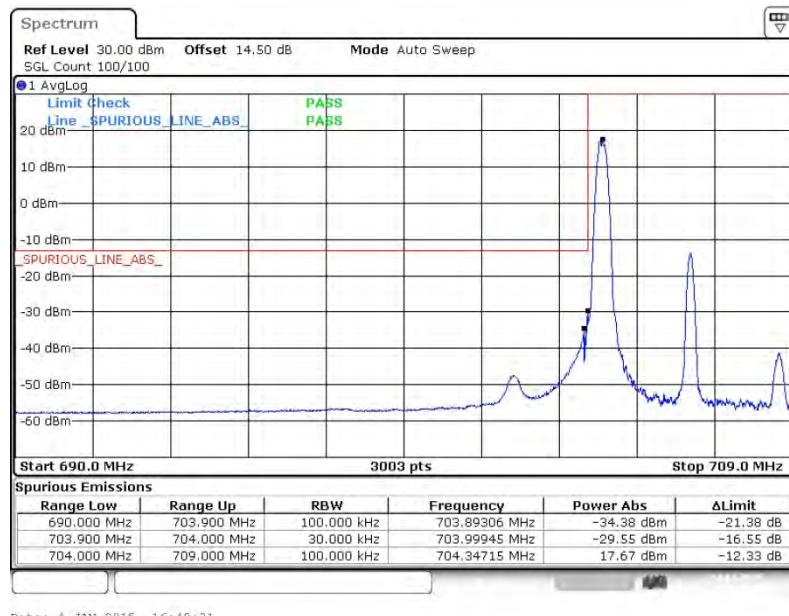
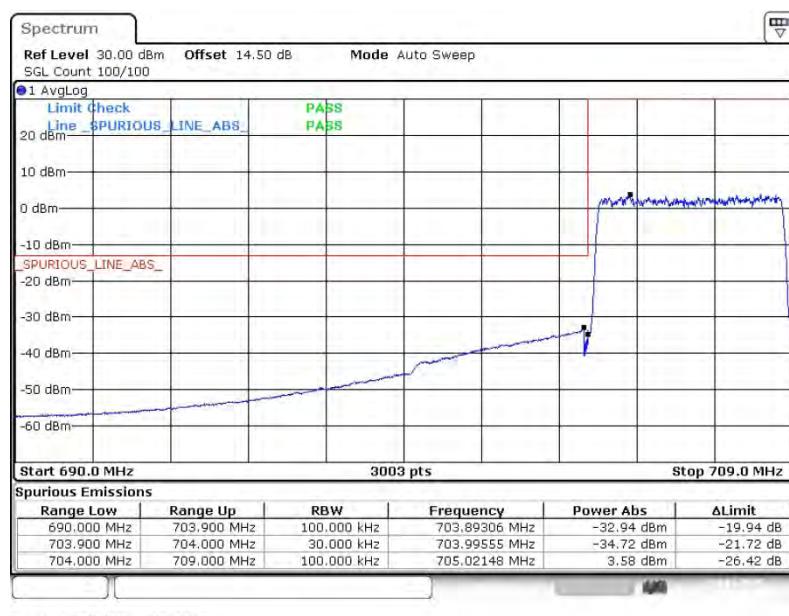




Band :	LTE Band 17	Band Width :	5MHz / 16QAM
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**Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0**

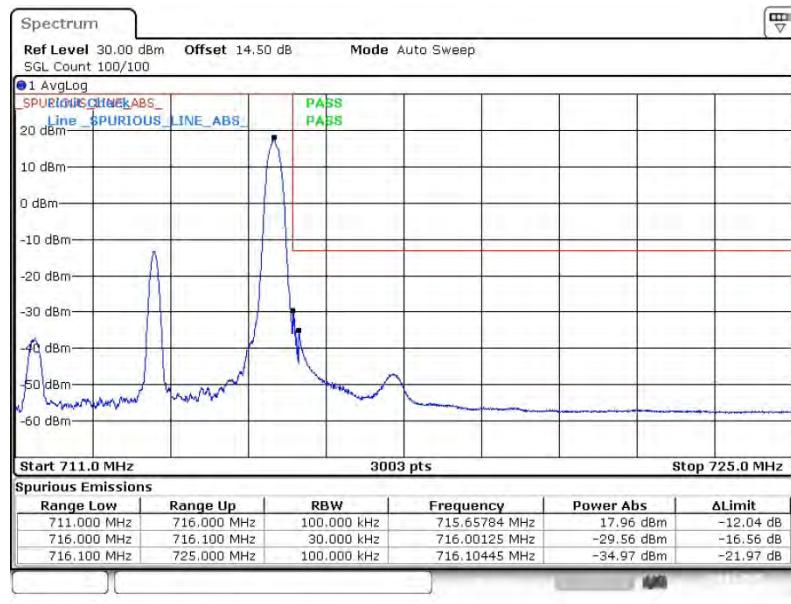
Date: 4.JAN.2015 16:49:31

**Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0**

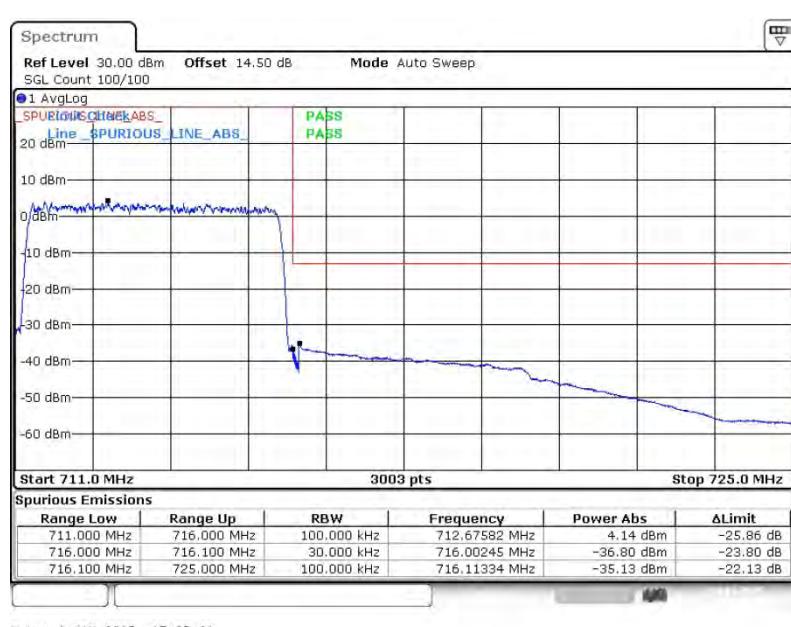
Date: 4.JAN.2015 16:52:30



## Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24

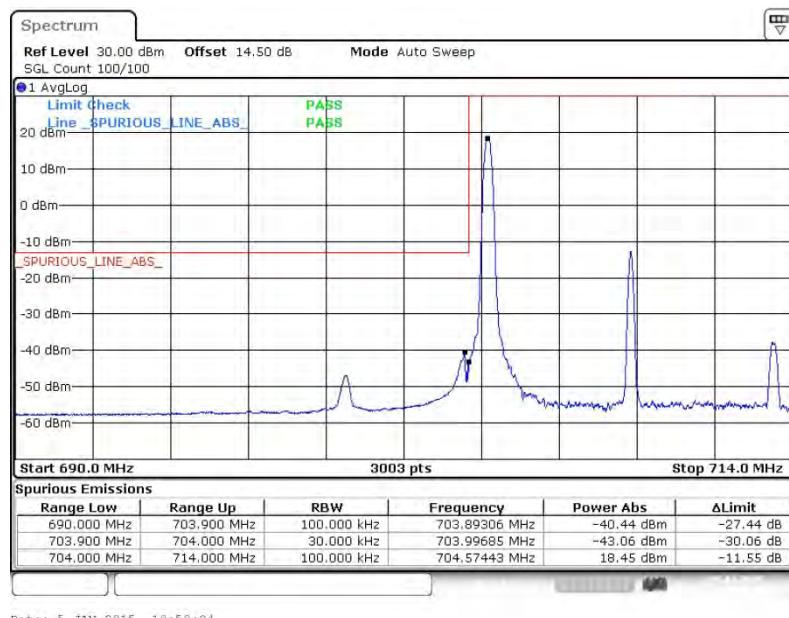
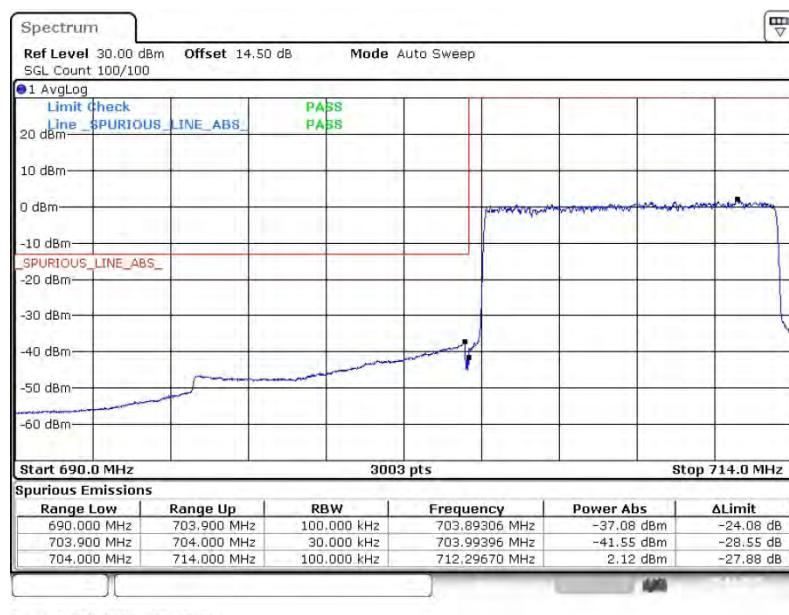


## Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



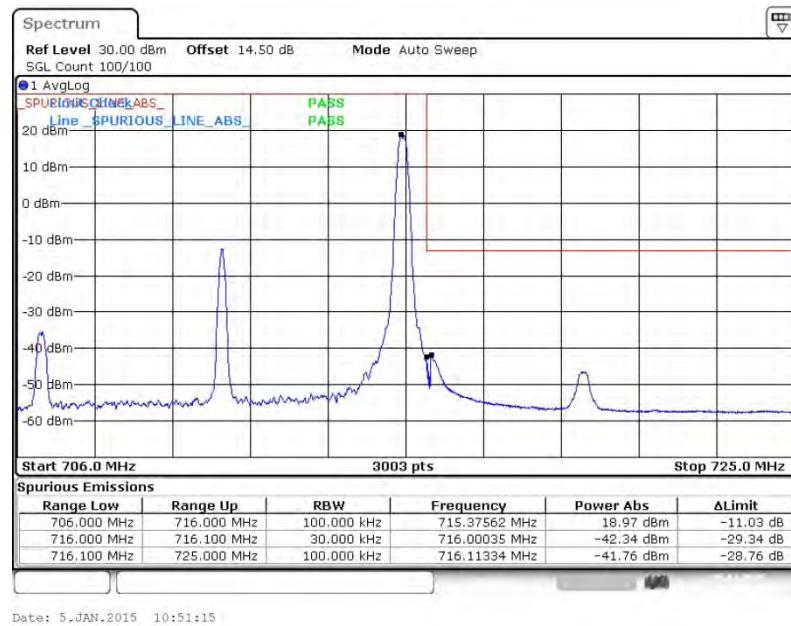


Band :	LTE Band 17	Band Width :	10MHz / QPSK
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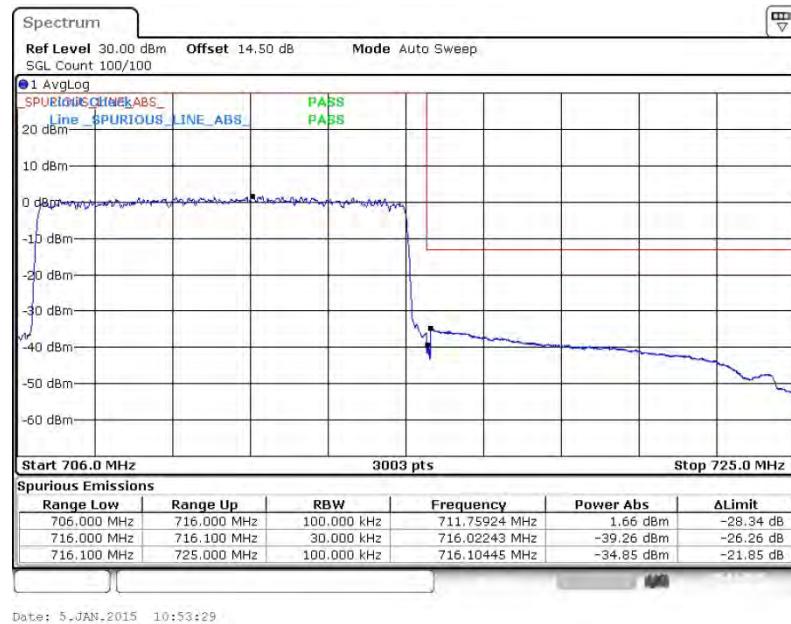
**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0****Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0**



## Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49

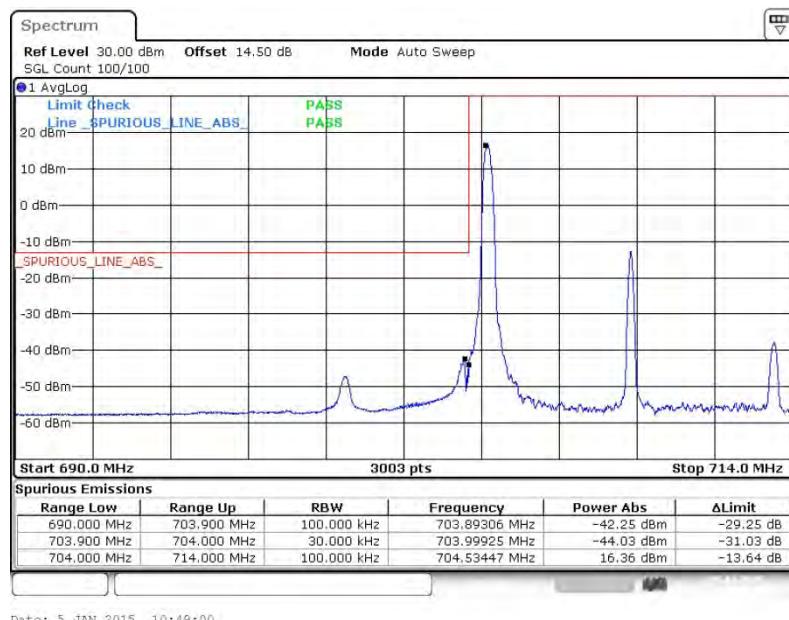
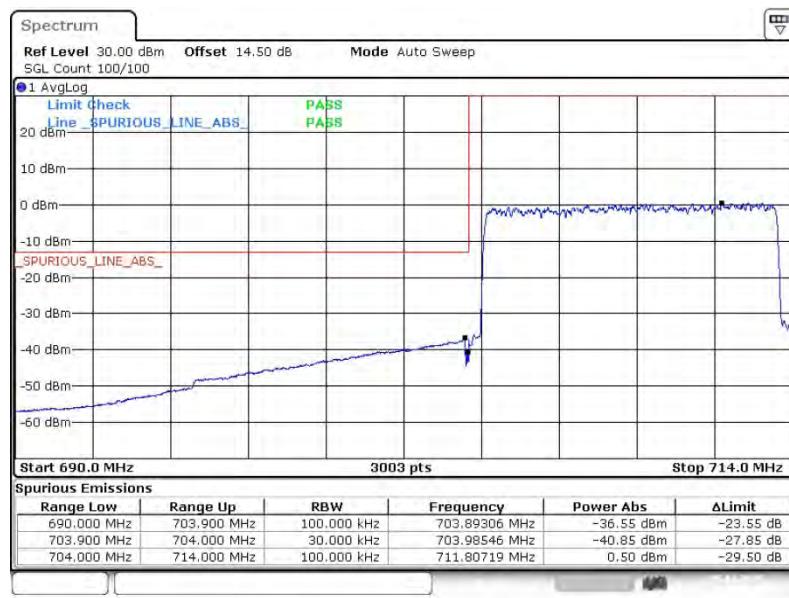


## Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



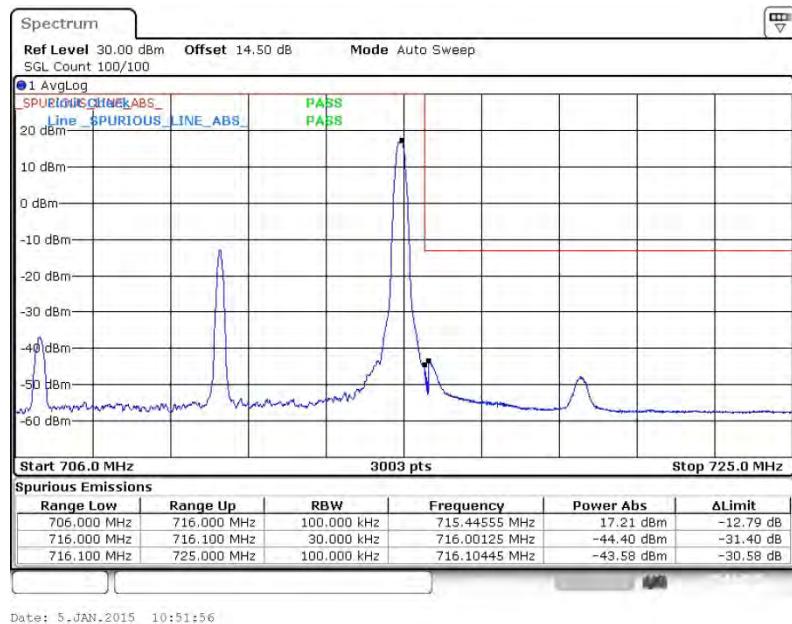


Band :	LTE Band 17	Band Width :	10MHz / 16QAM
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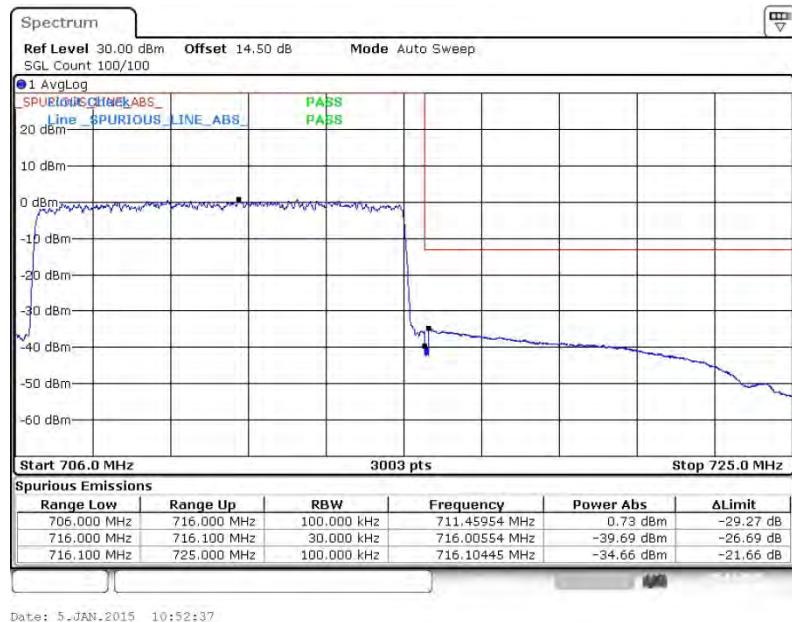
**Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0****Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0**



## Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



## Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0





## 3.6 Conducted Spurious Emission Measurement

### 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

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 9 kHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

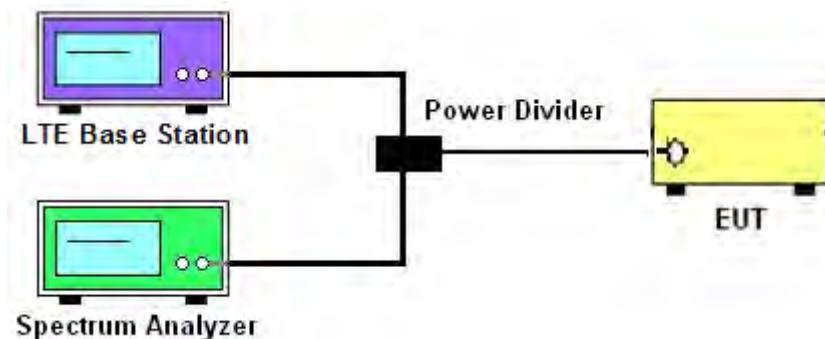
1. The EUT was connected to spectrum analyzer and LTE base station via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within 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, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$  dBm.

For Band 7

The limit line is derived from  $55 + 10\log(P)$  dB below the transmitter power P(Watts)

$$\begin{aligned} &= P(W) - [55 + 10\log(P)] \text{ (dB)} \\ &= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ &= -25 \text{ dBm.} \end{aligned}$$

### 3.6.4 Test Setup

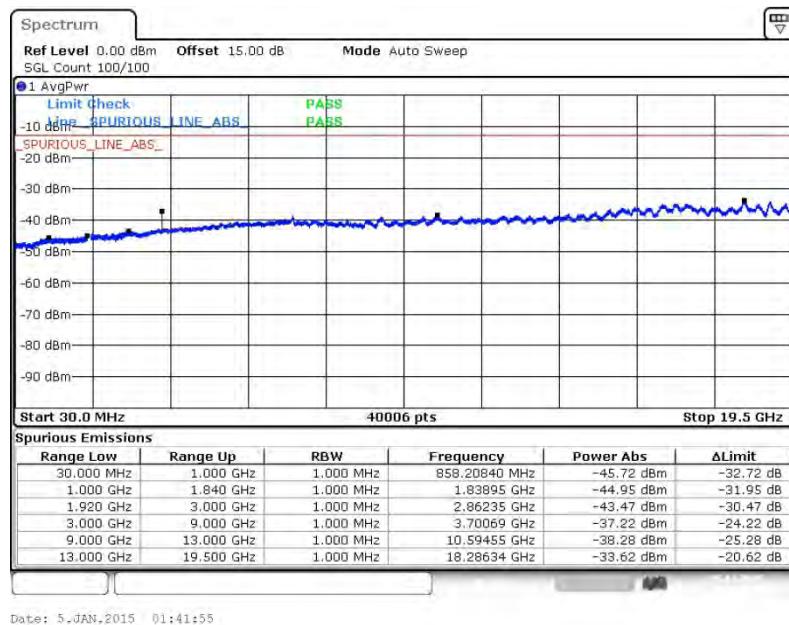




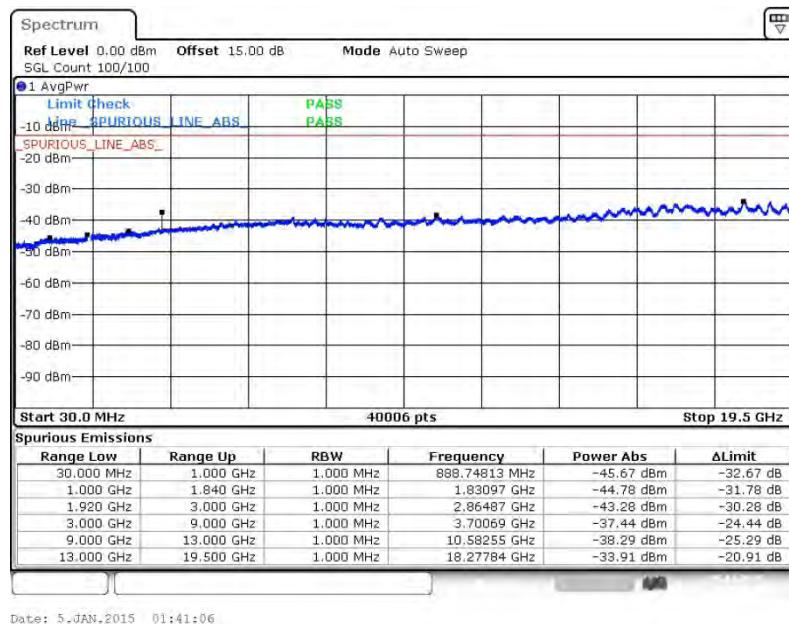
### 3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	LTE Band 2	Channel :	CH18607 (Low)
Band Width :	1.4MHz		

#### QPSK (RB Size 3, RB Offset 0)



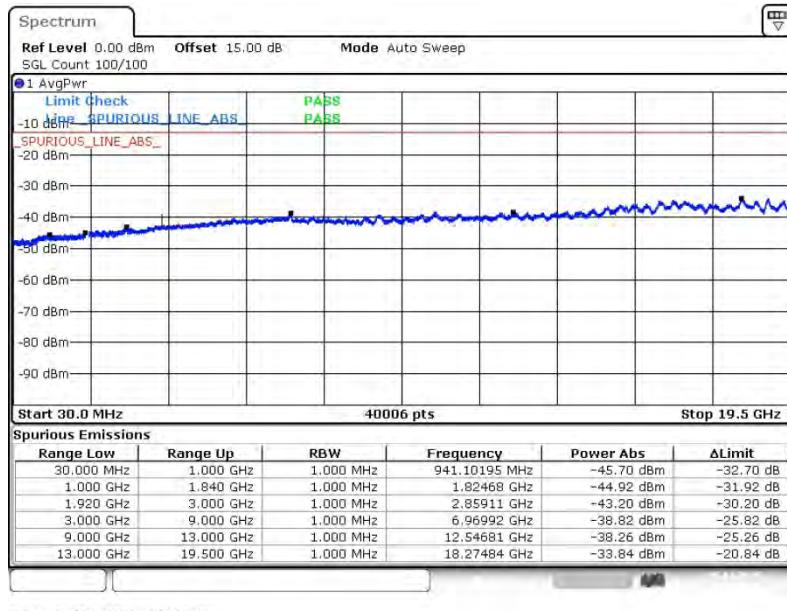
#### 16QAM (RB Size 3, RB Offset 0)



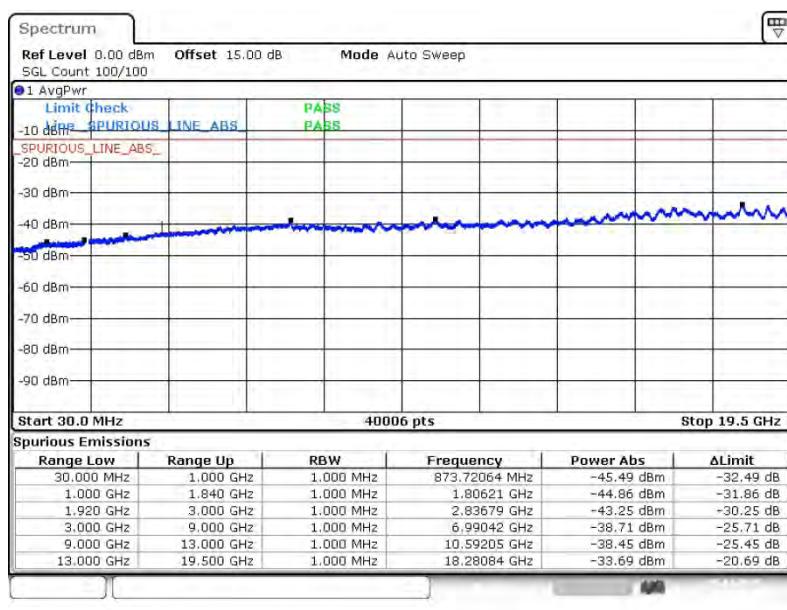


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	1.4MHz		

## QPSK (RB Size 3, RB Offset 0)



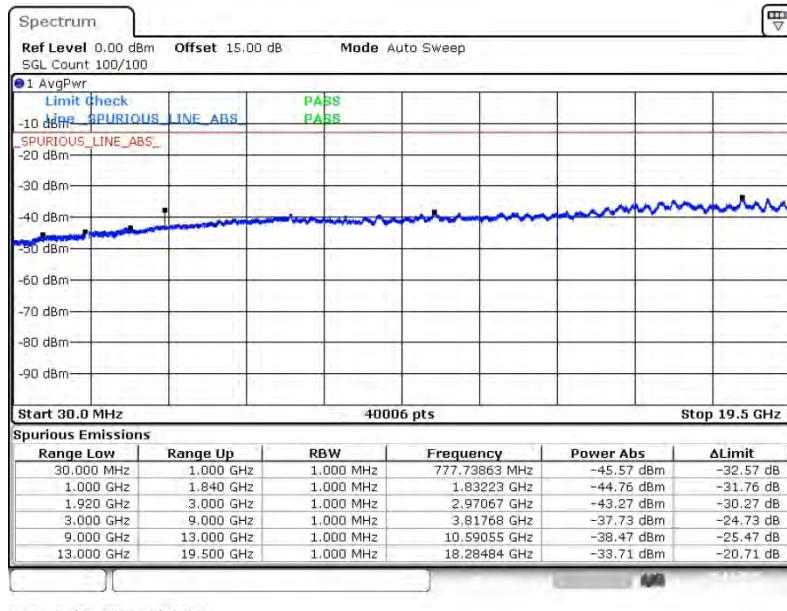
## 16QAM (RB Size 3, RB Offset 0)



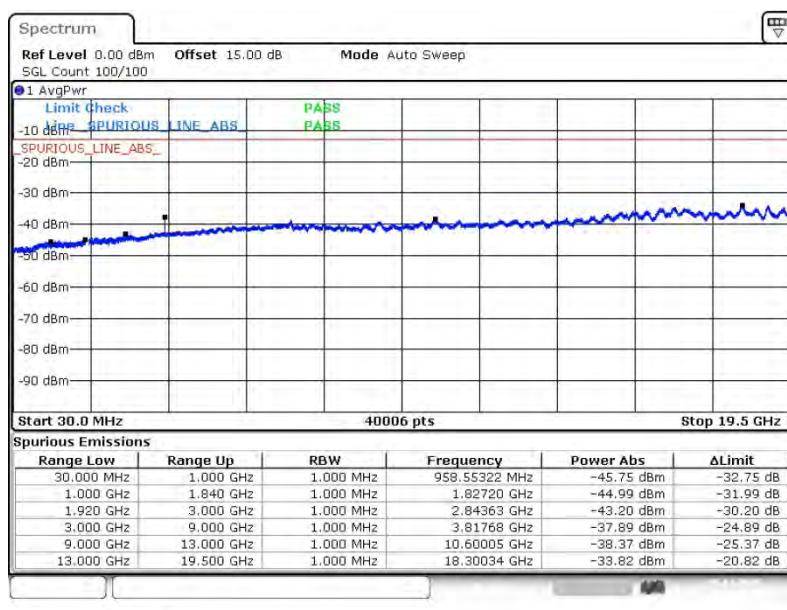


Band :	LTE Band 2	Channel :	CH19193 (High)
Band Width :	1.4MHz		

## QPSK (RB Size 3, RB Offset 0)



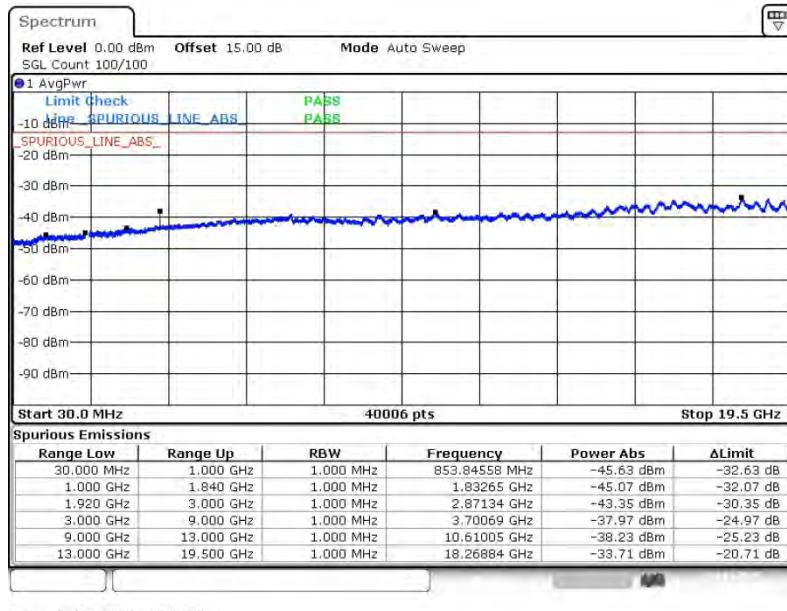
## 16QAM (RB Size 3, RB Offset 0)



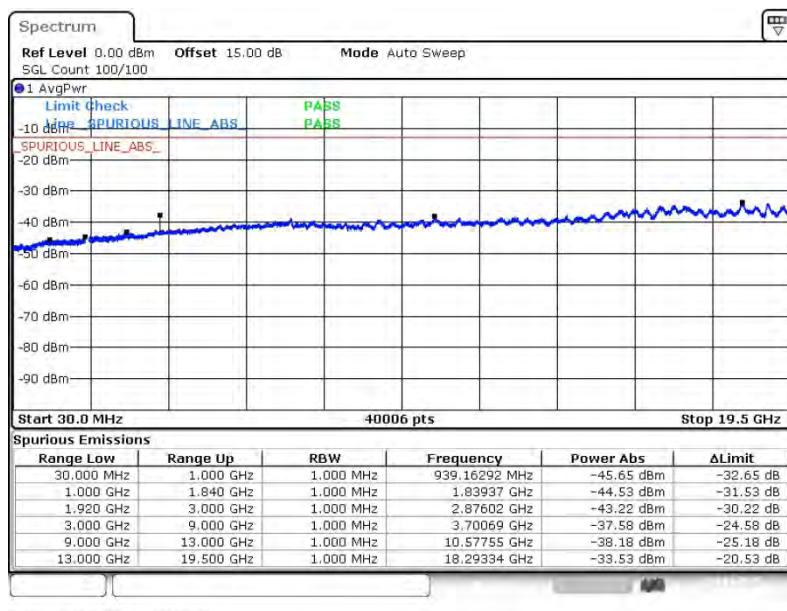


Band :	LTE Band 2	Channel :	CH18615 (Low)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



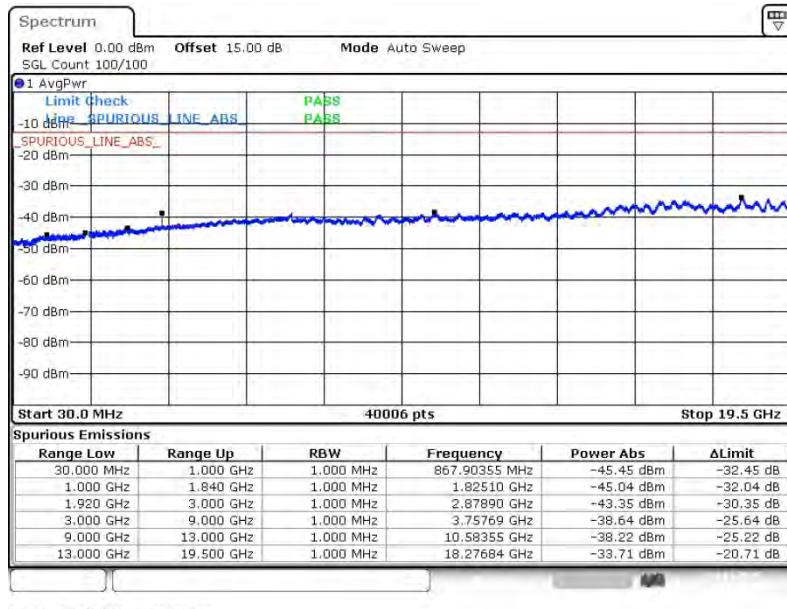
## 16QAM (RB Size 1, RB Offset 0)



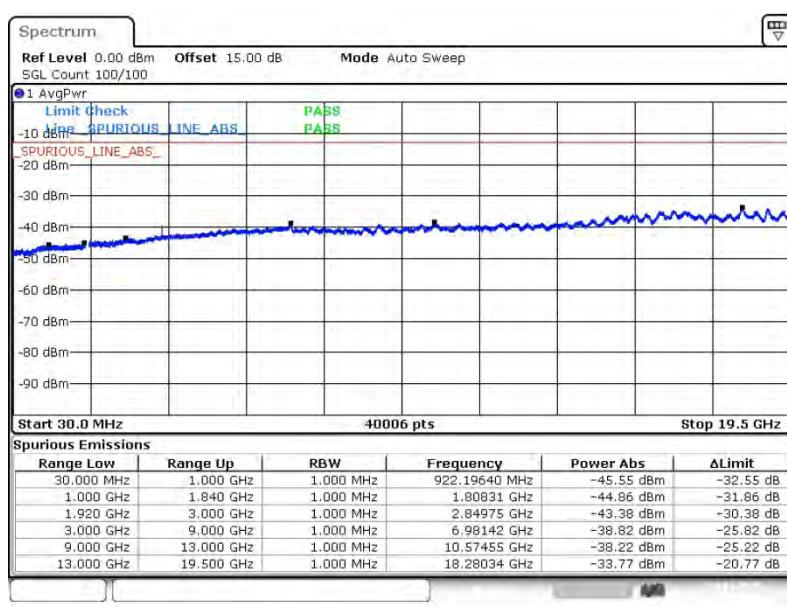


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



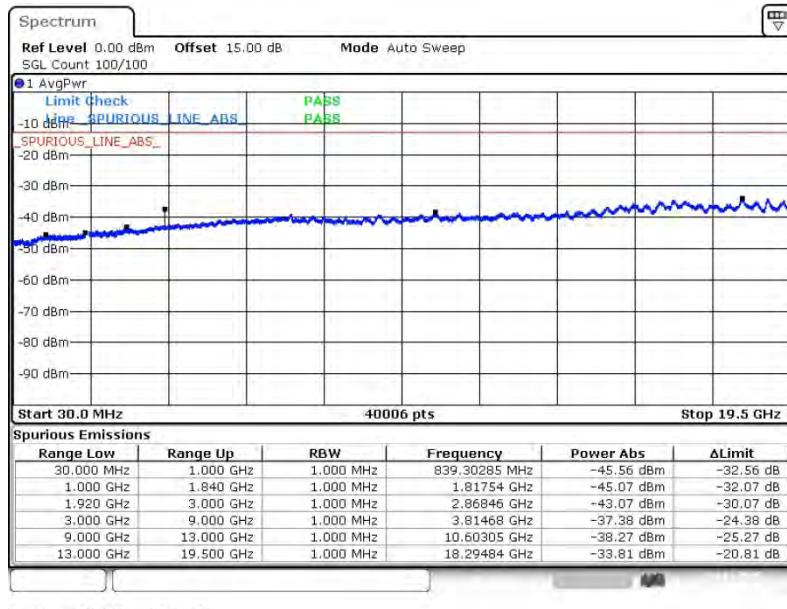
## 16QAM (RB Size 1, RB Offset 0)



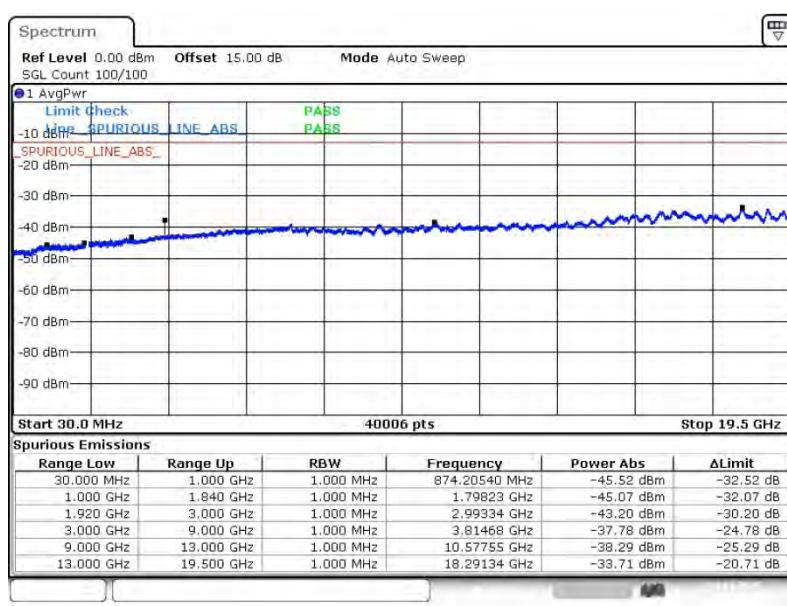


Band :	LTE Band 2	Channel :	CH19185 (High)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



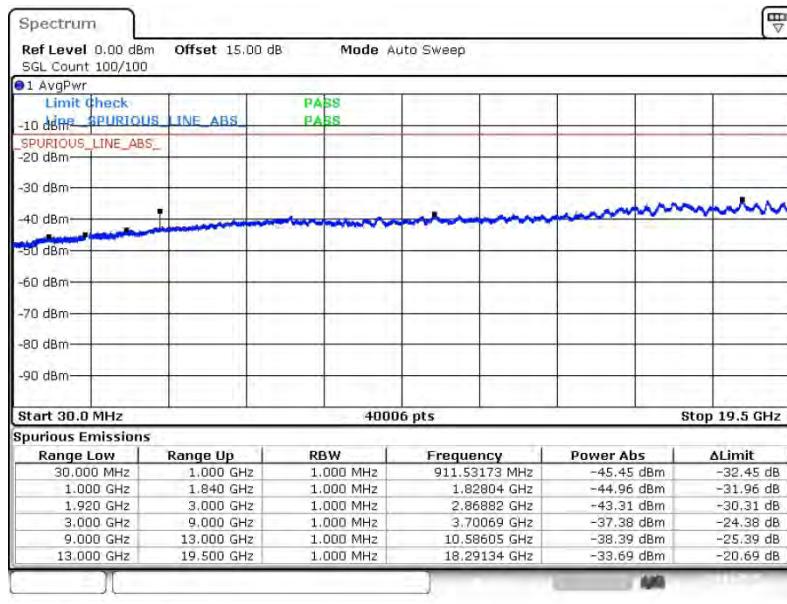
## 16QAM (RB Size 1, RB Offset 0)



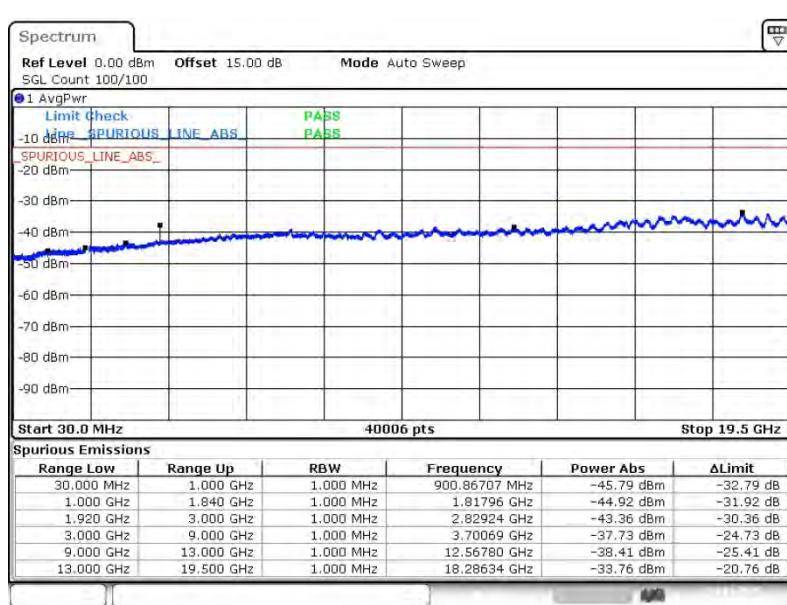


Band :	LTE Band 2	Channel :	CH18625 (Low)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 0)



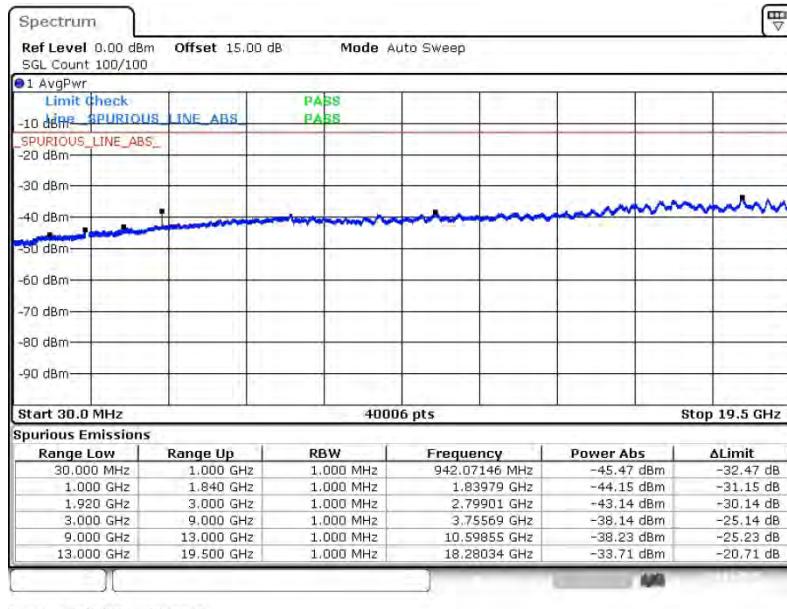
## 16QAM (RB Size 1, RB Offset 0)



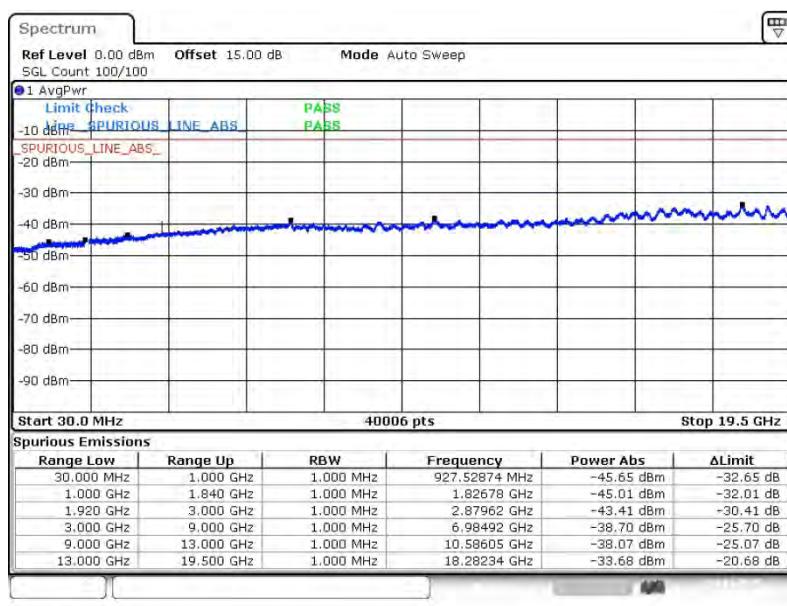


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 0)



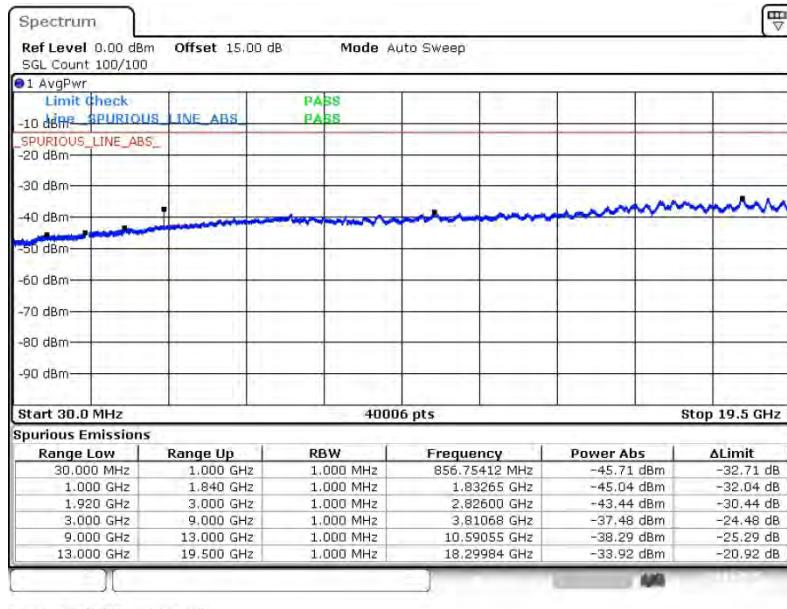
## 16QAM (RB Size 1, RB Offset 0)



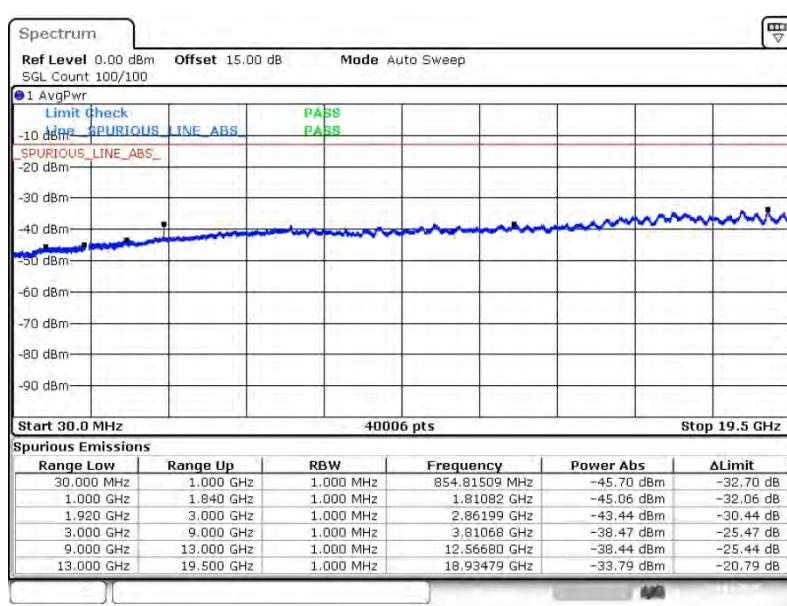


Band :	LTE Band 2	Channel :	CH19175 (High)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 0)



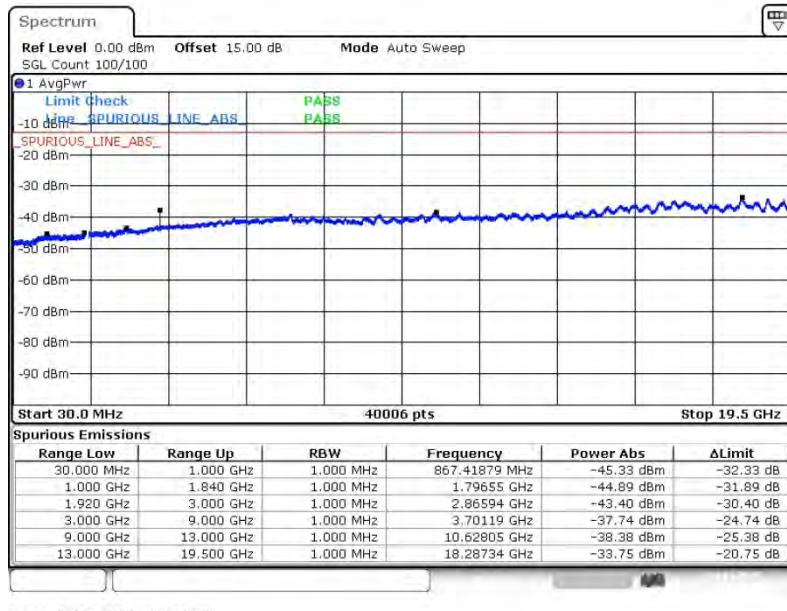
## 16QAM (RB Size 1, RB Offset 0)



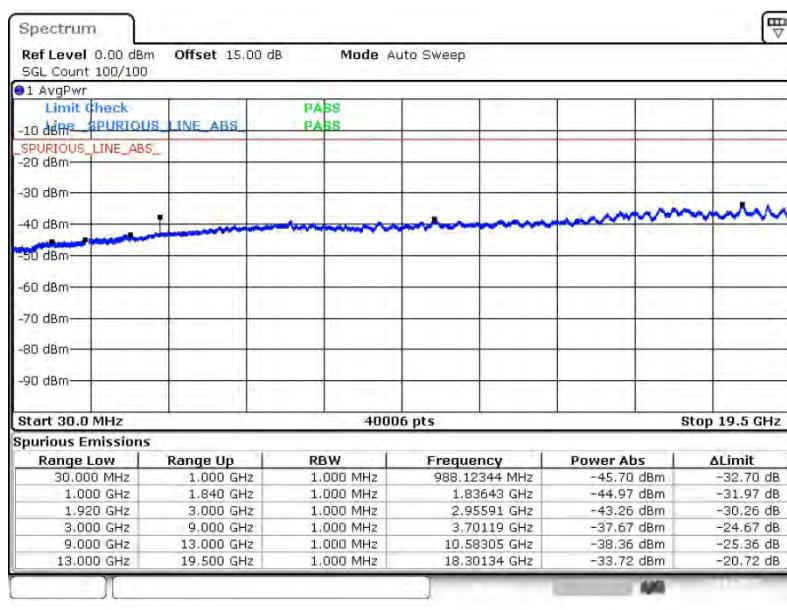


Band :	LTE Band 2	Channel :	CH18650 (Low)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



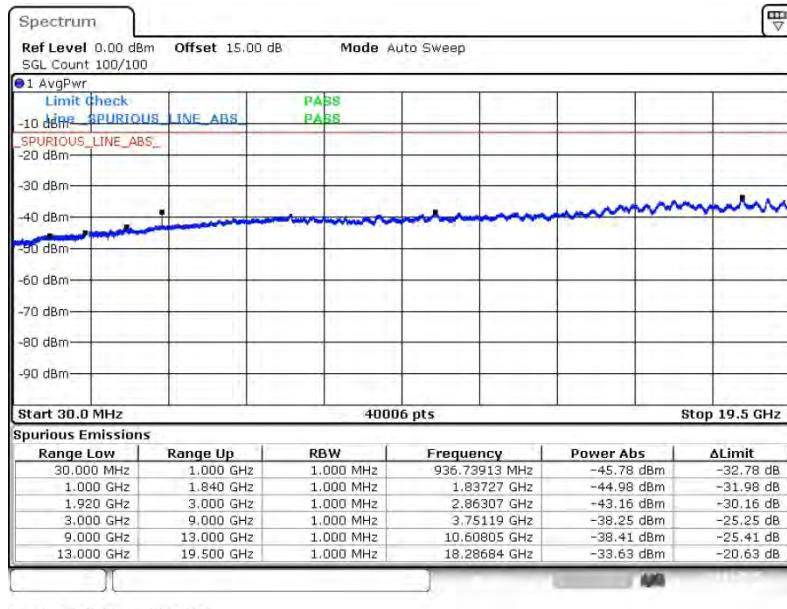
## 16QAM (RB Size 1, RB Offset 0)



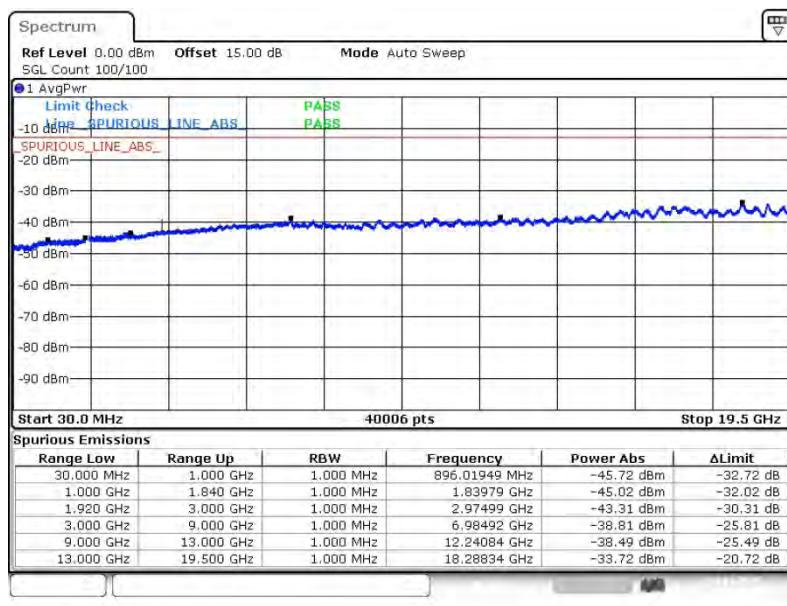


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



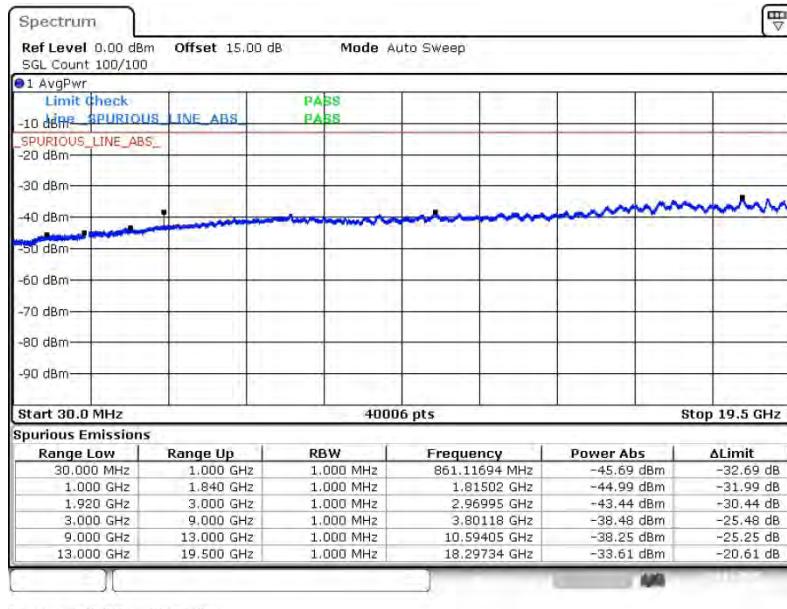
## 16QAM (RB Size 1, RB Offset 0)



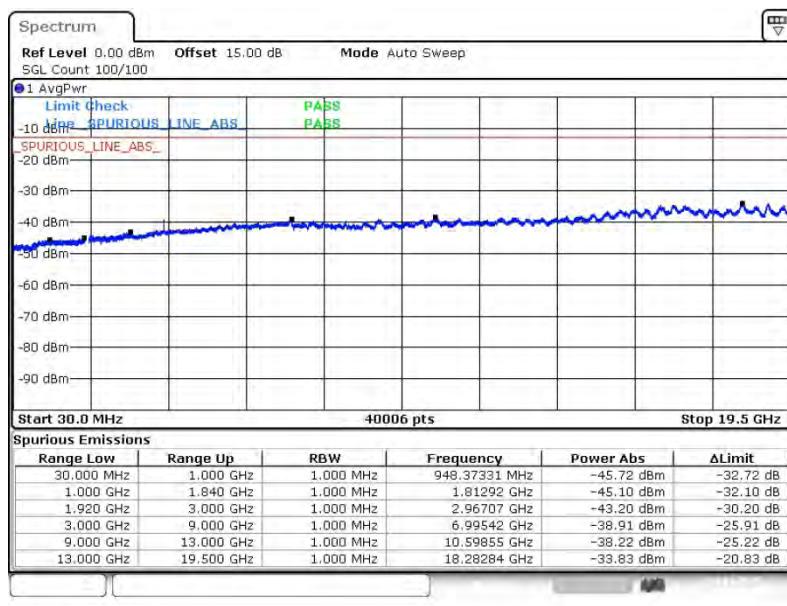


Band :	LTE Band 2	Channel :	CH19150 (High)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



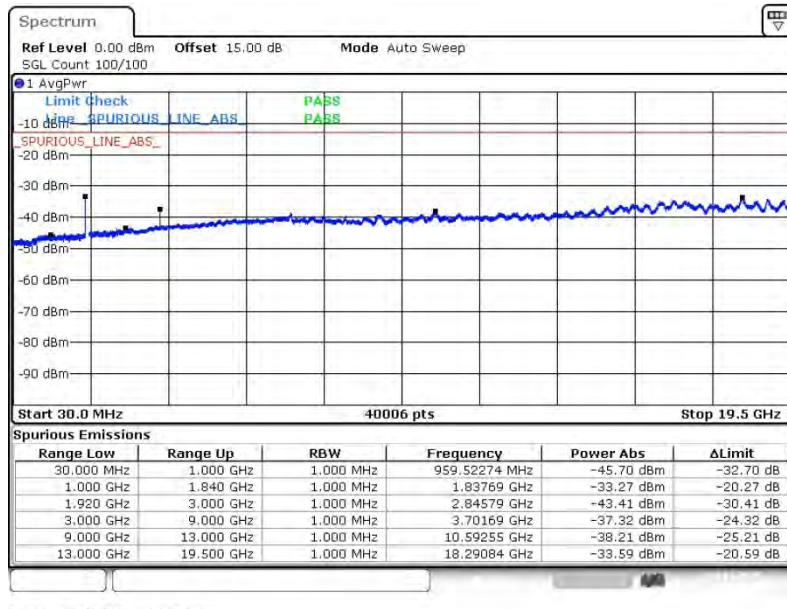
## 16QAM (RB Size 1, RB Offset 0)



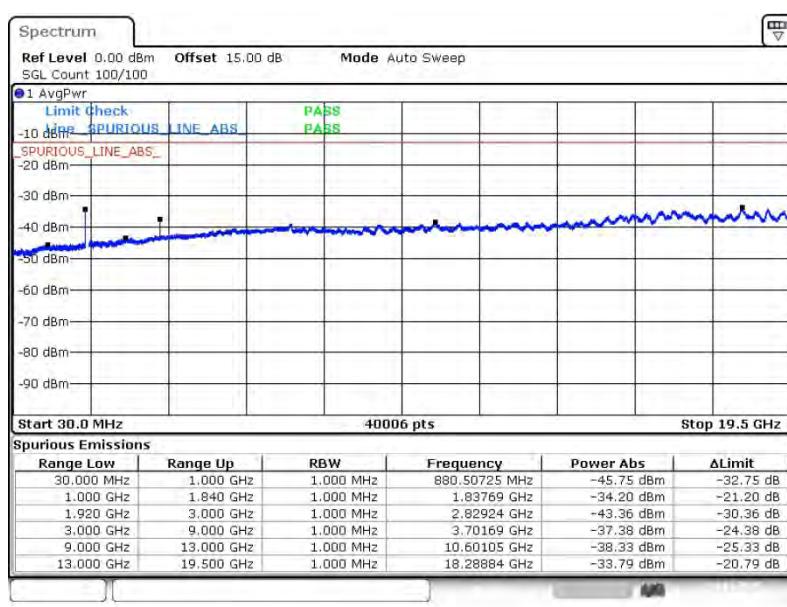


Band :	LTE Band 2	Channel :	CH18675 (Low)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 0)



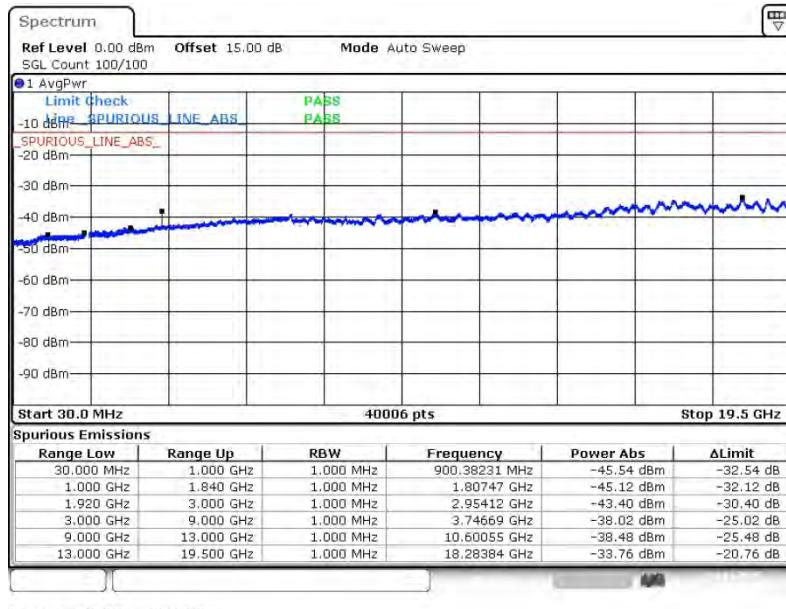
## 16QAM (RB Size 1, RB Offset 0)



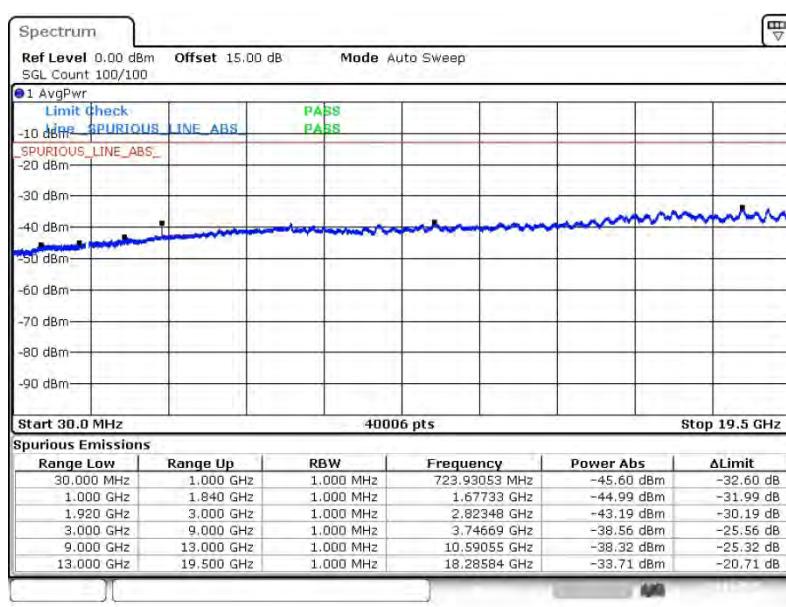


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 0)



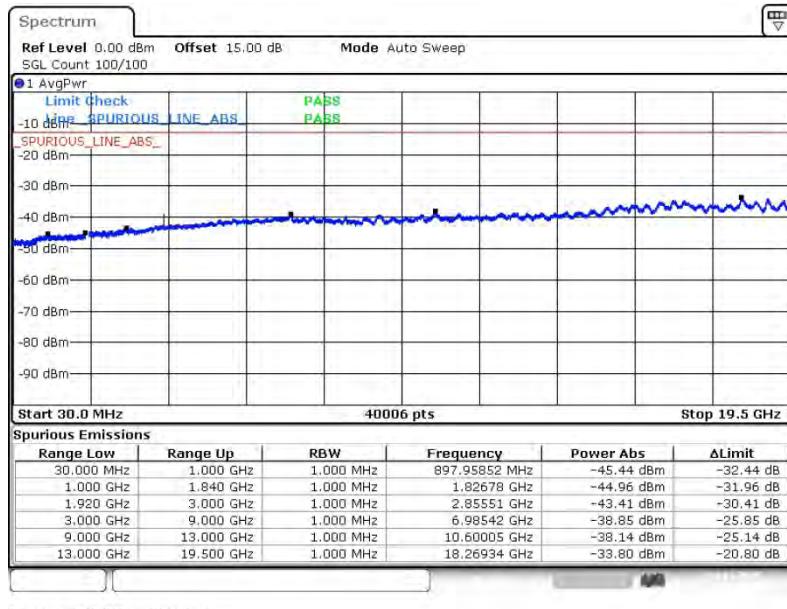
## 16QAM (RB Size 1, RB Offset 0)



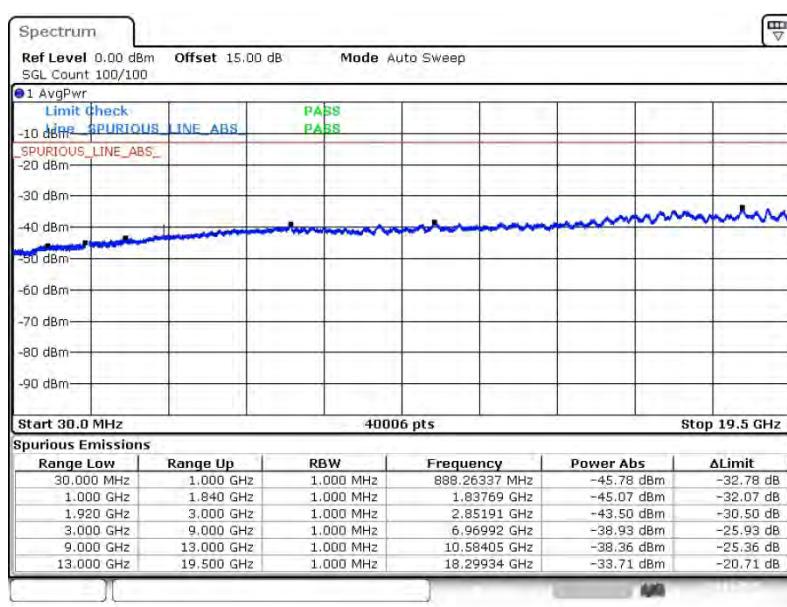


Band :	LTE Band 2	Channel :	CH19125 (High)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 0)

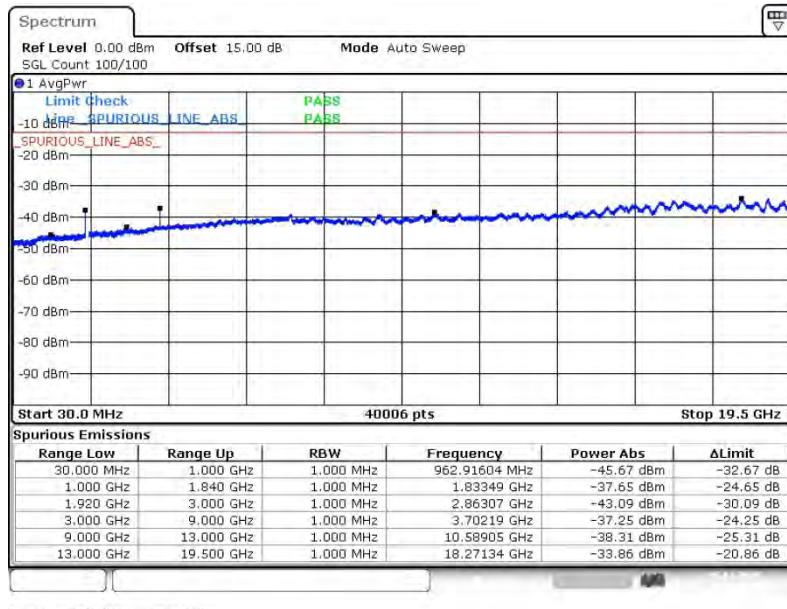
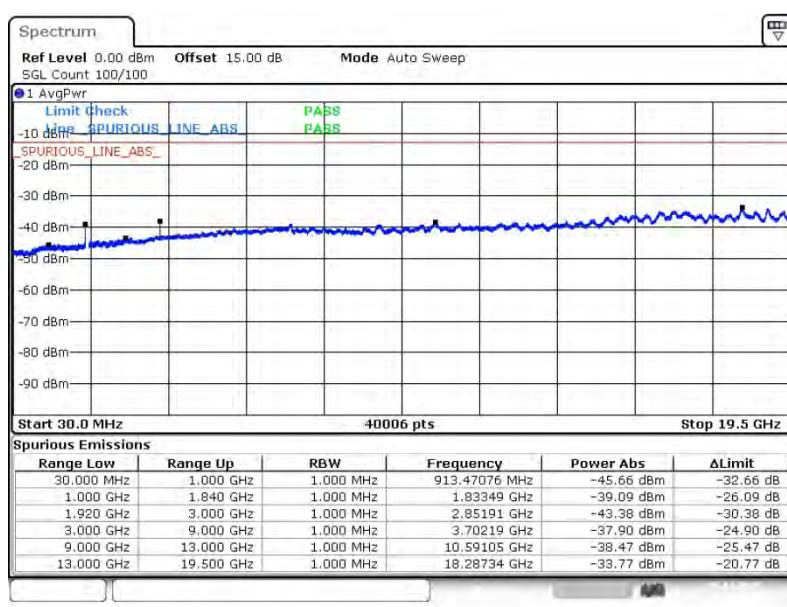


## 16QAM (RB Size 1, RB Offset 0)





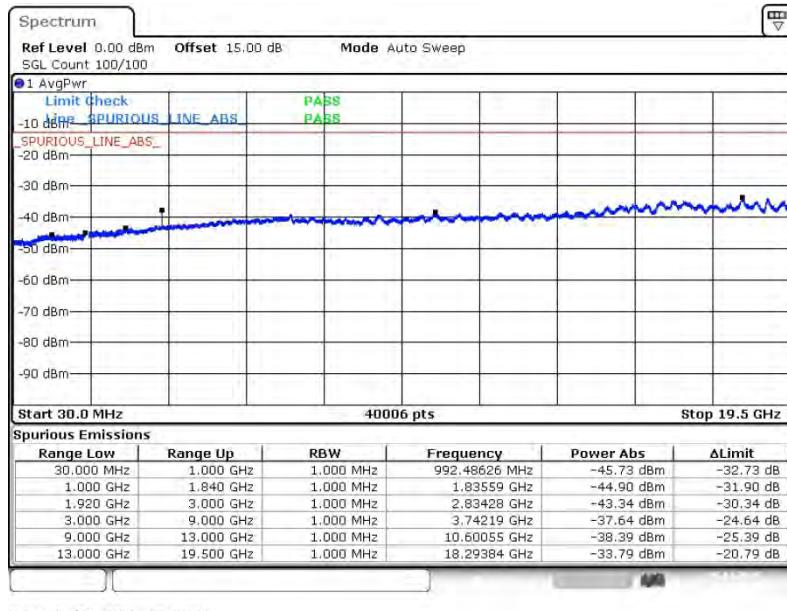
Band :	LTE Band 2	Channel :	CH18700 (Low)
Band Width :	20MHz		

**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**

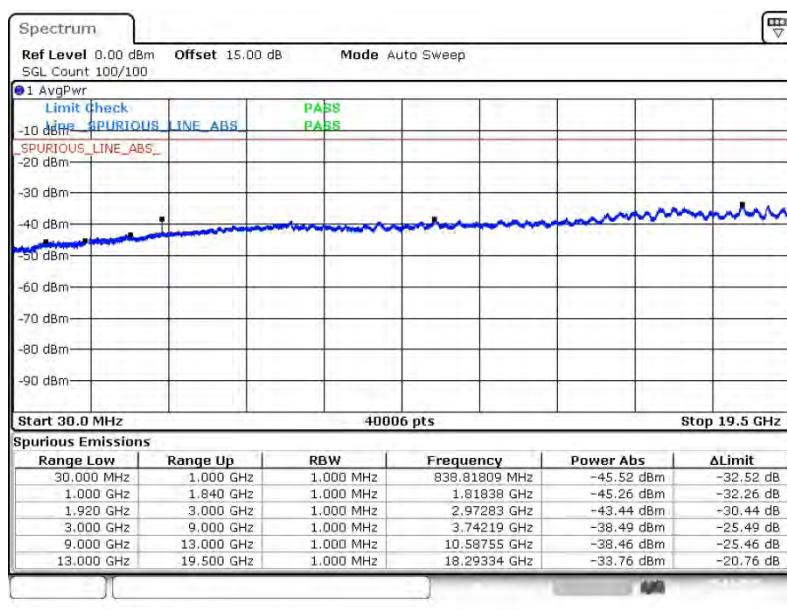


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	20MHz		

## QPSK (RB Size 1, RB Offset 49)



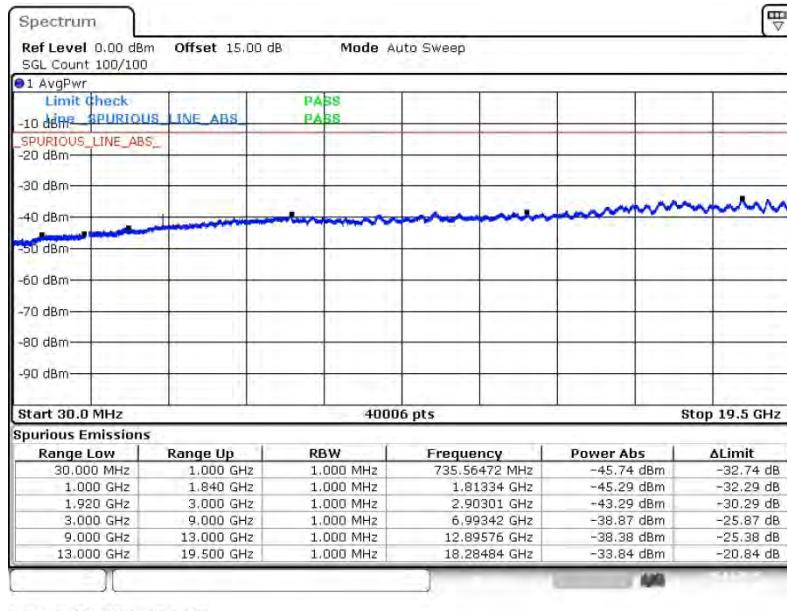
## 16QAM (RB Size 1, RB Offset 49)



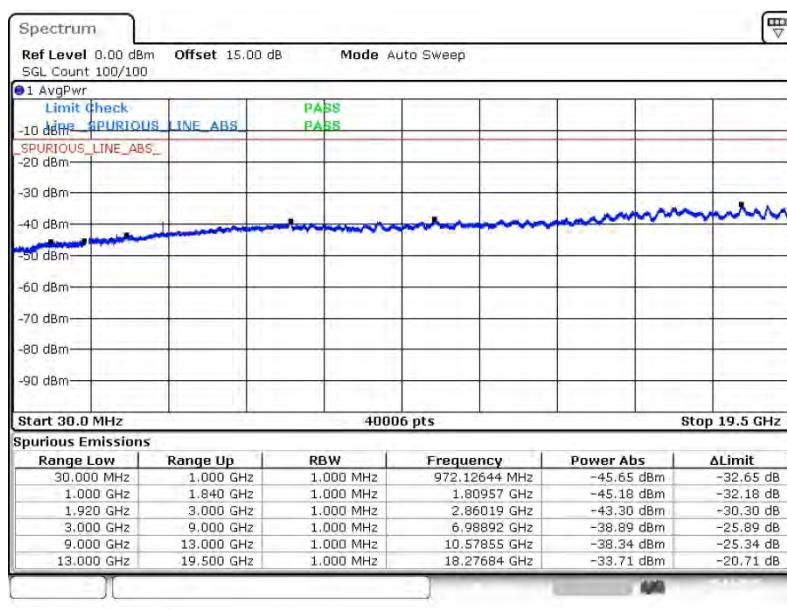


Band :	LTE Band 2	Channel :	CH19100 (High)
Band Width :	20MHz		

## QPSK (RB Size 1, RB Offset 49)



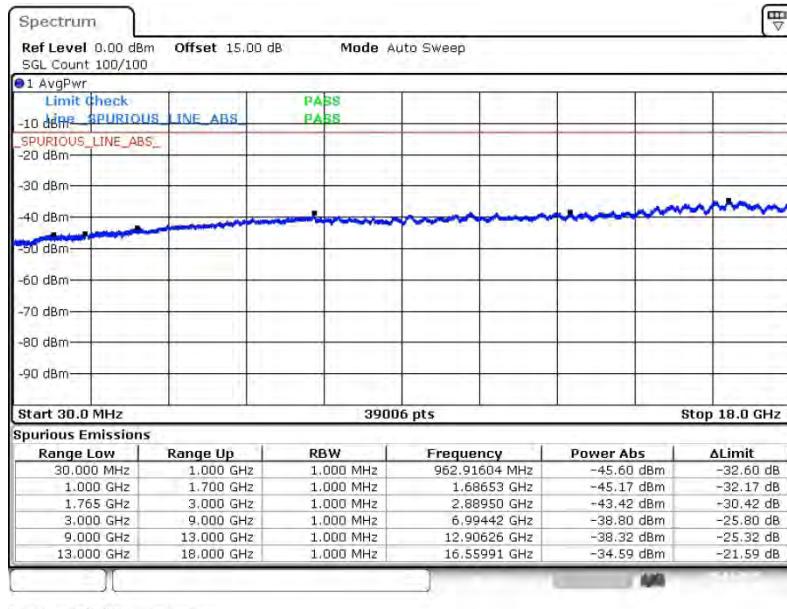
## 16QAM (RB Size 1, RB Offset 49)



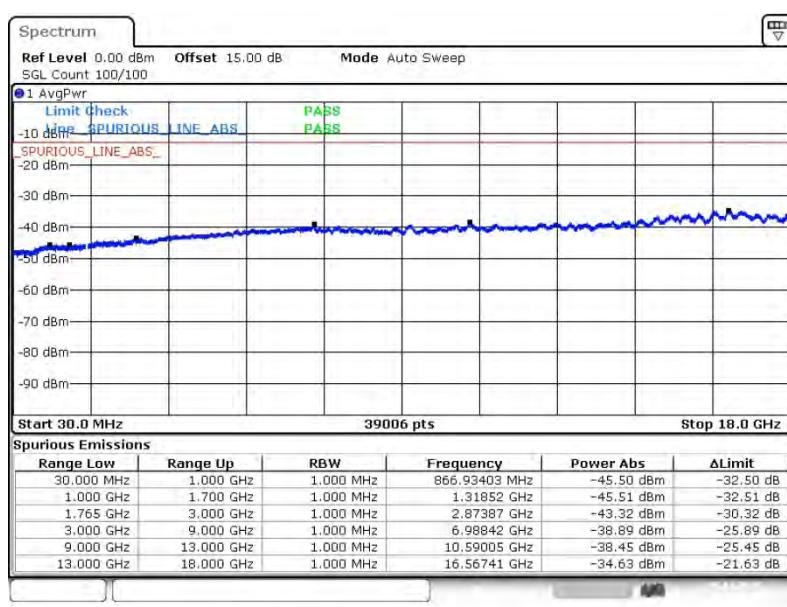


Band :	LTE Band 4	Channel :	CH19957 (Low)
Band Width :	1.4MHz		

## QPSK (RB Size 1, RB Offset 2)



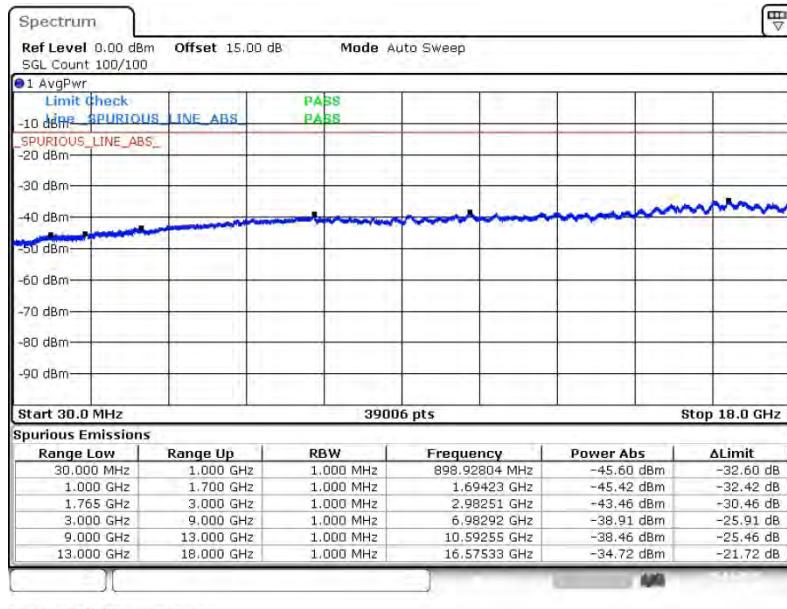
## 16QAM (RB Size 1, RB Offset 0)



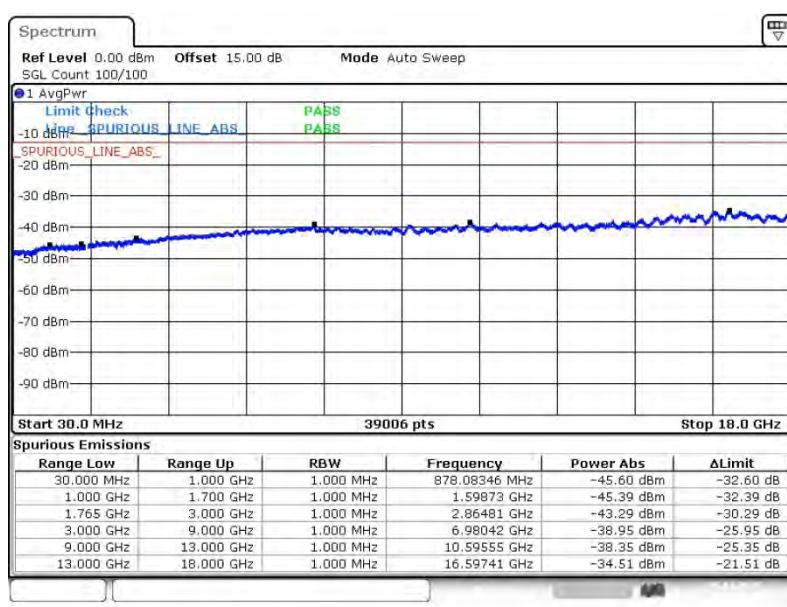


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	1.4MHz		

## QPSK (RB Size 3, RB Offset 0)



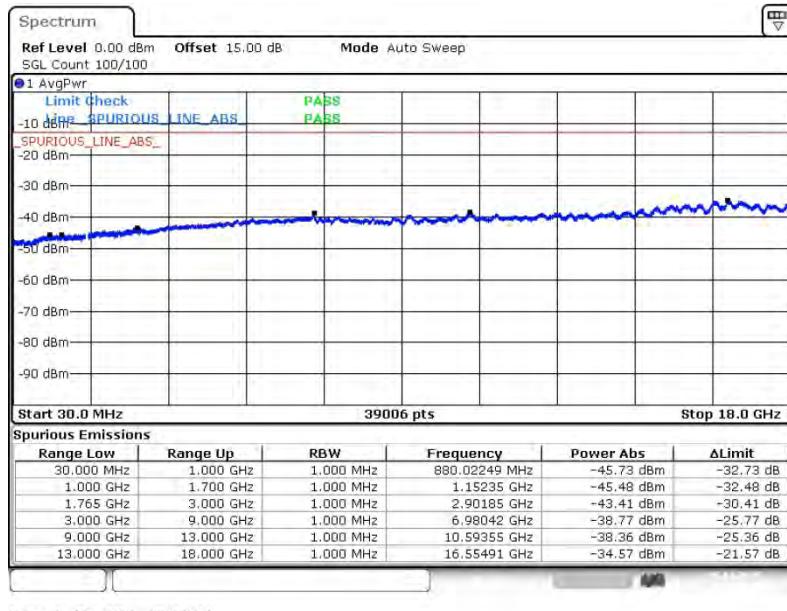
## 16QAM (RB Size 3, RB Offset 0)



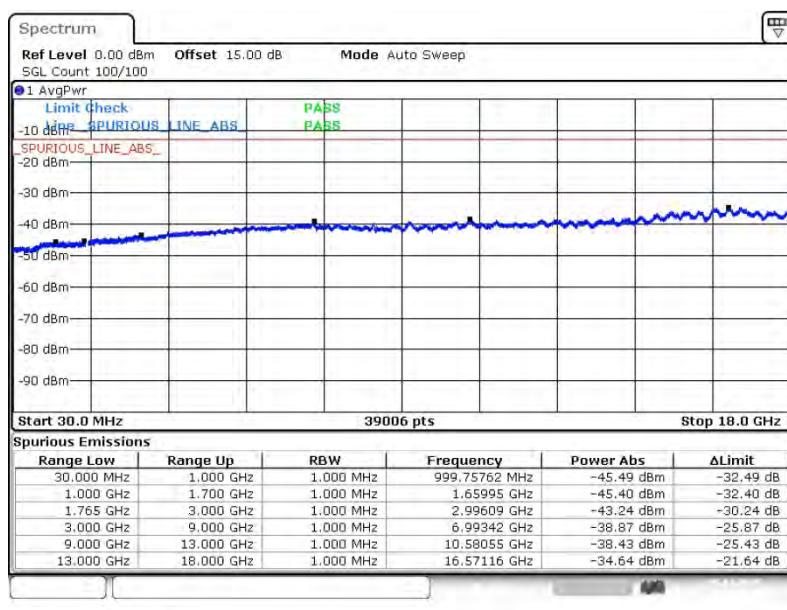


Band :	LTE Band 4	Channel :	CH20393 (High)
Band Width :	1.4MHz		

## QPSK (RB Size 1, RB Offset 2)



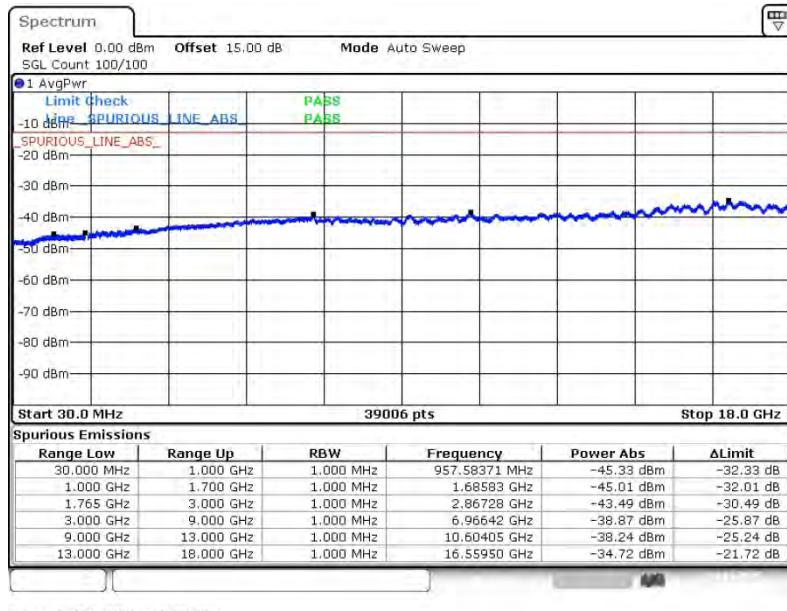
## 16QAM (RB Size 3, RB Offset 1)



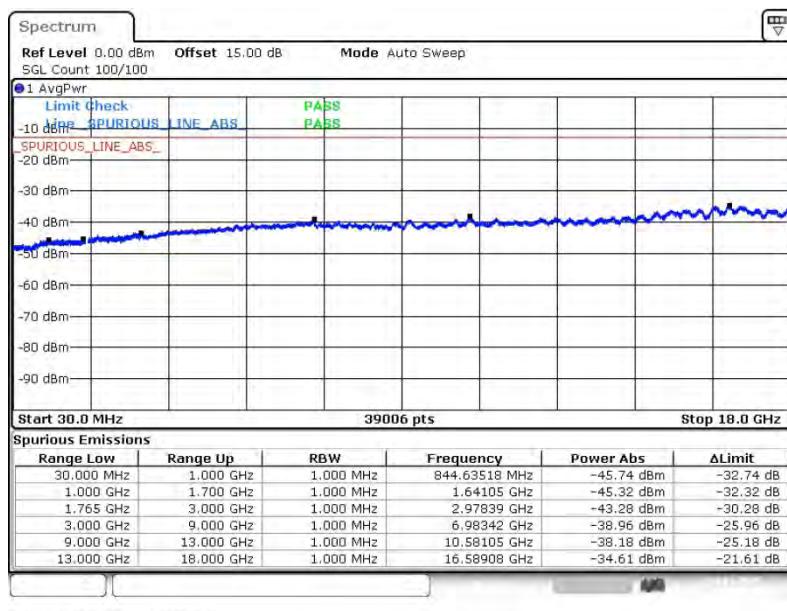


Band :	LTE Band 4	Channel :	CH19965 (Low)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 14)



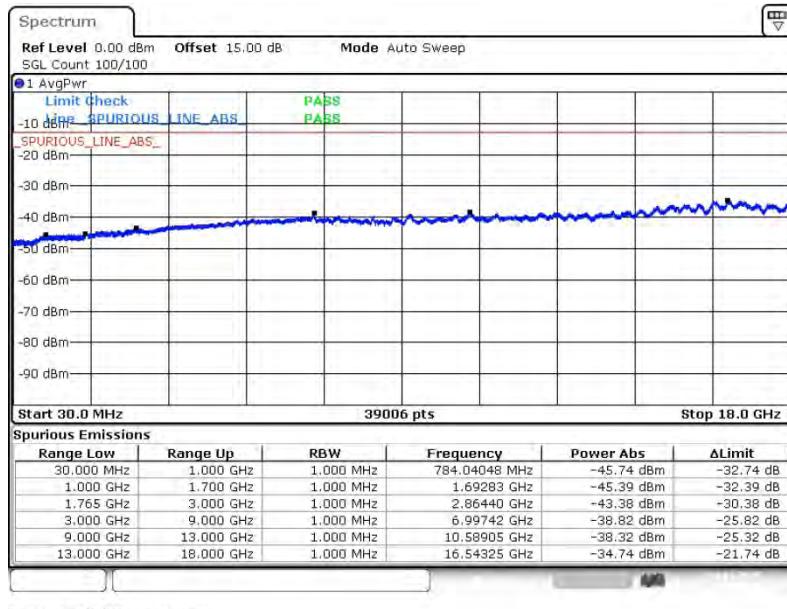
## 16QAM (RB Size 1, RB Offset 0)



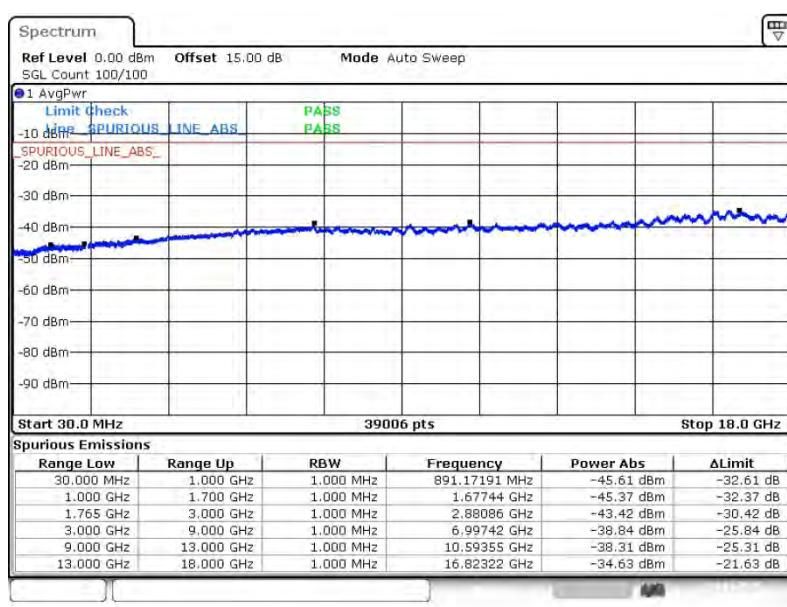


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



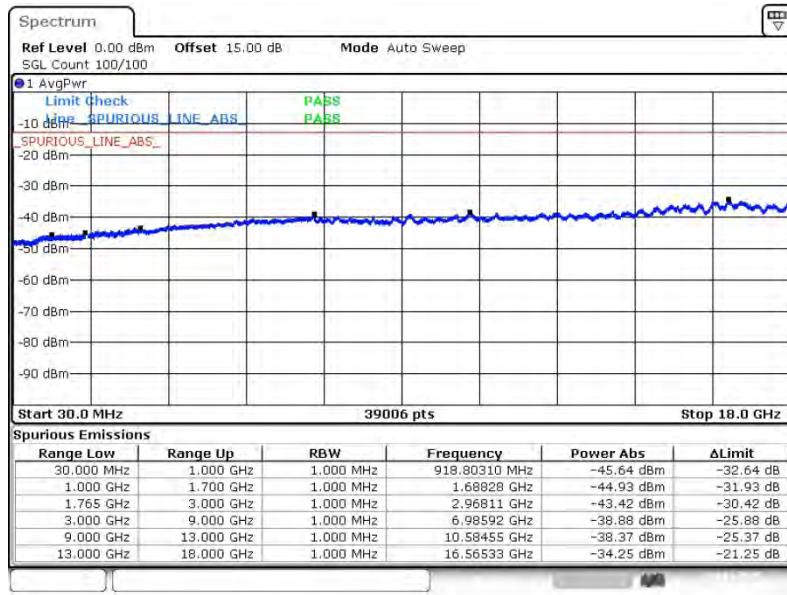
## 16QAM (RB Size 1, RB Offset 0)



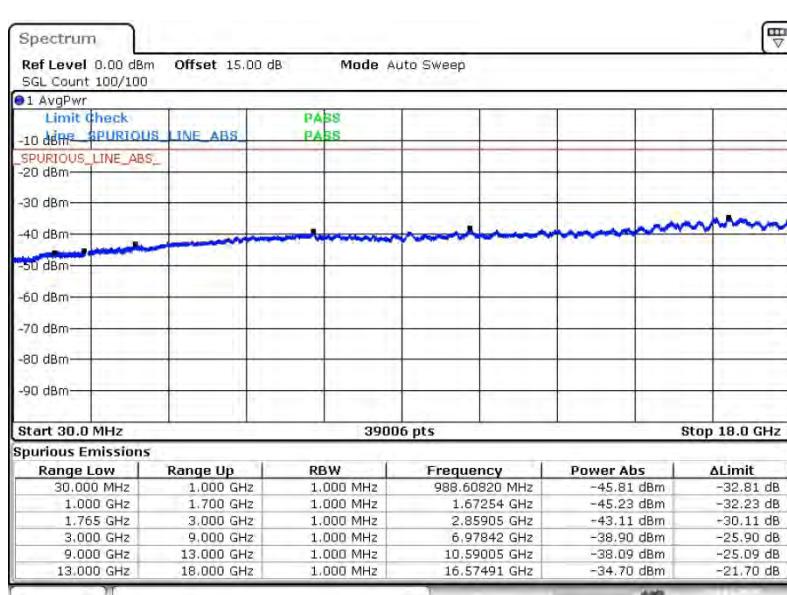


Band :	LTE Band 4	Channel :	CH20385 (High)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 7)



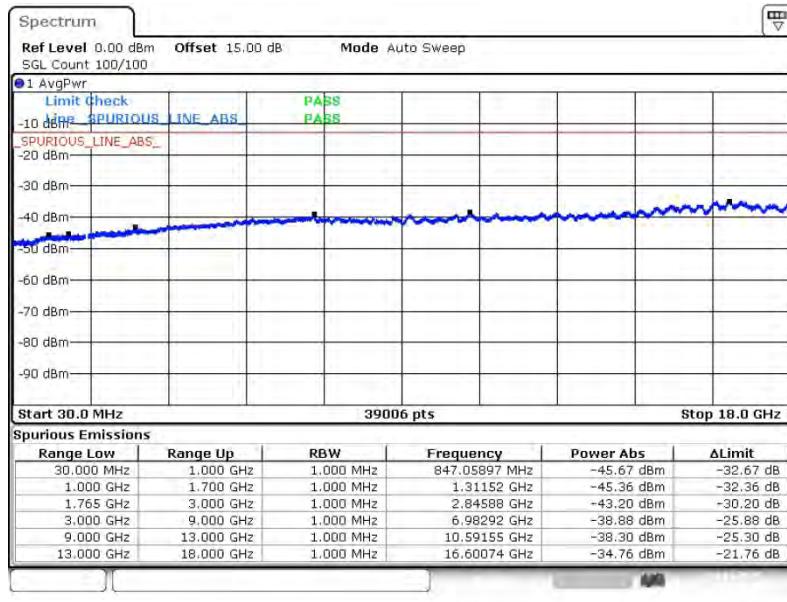
## 16QAM (RB Size 1, RB Offset 14)



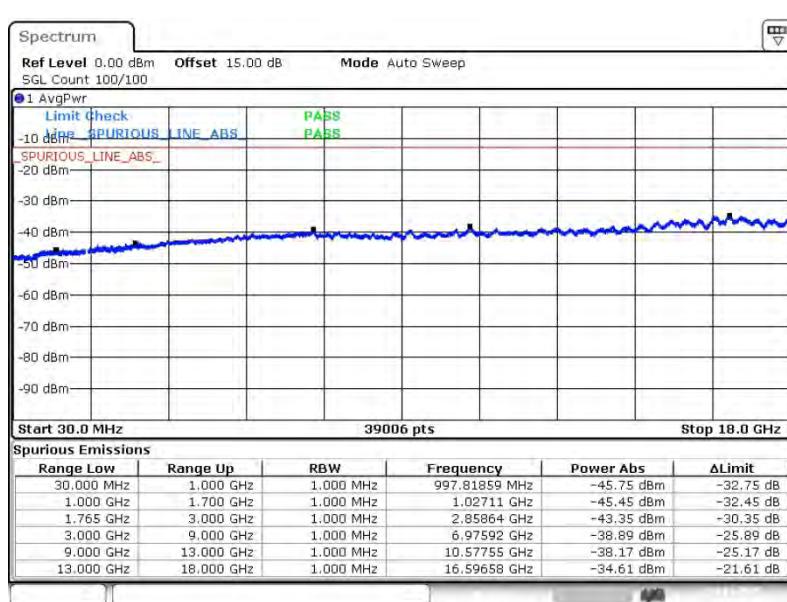


Band :	LTE Band 4	Channel :	CH19975 (Low)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 12)



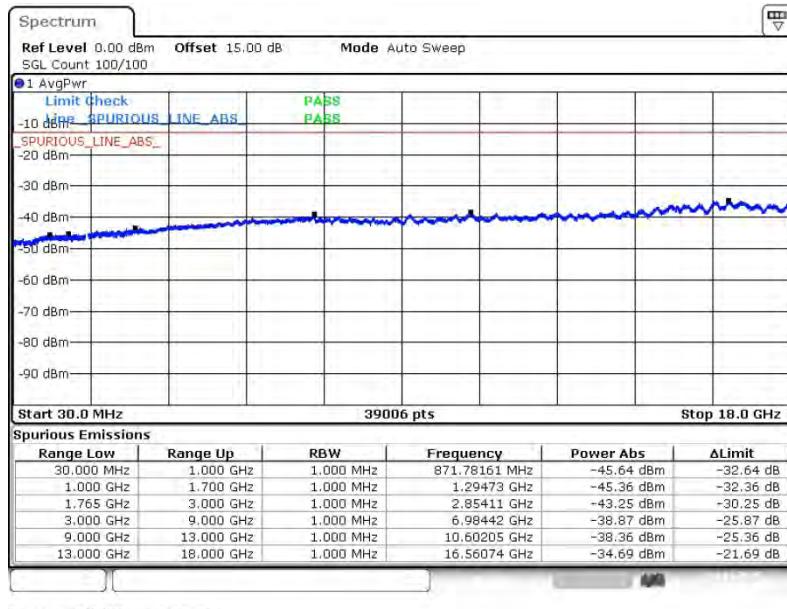
## 16QAM (RB Size 1, RB Offset 0)





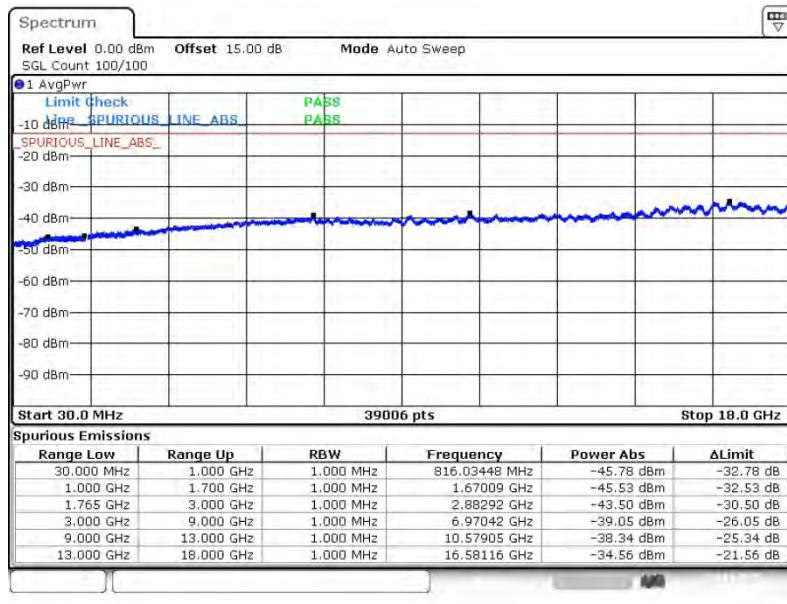
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 14:51:09

## 16QAM (RB Size 1, RB Offset 0)

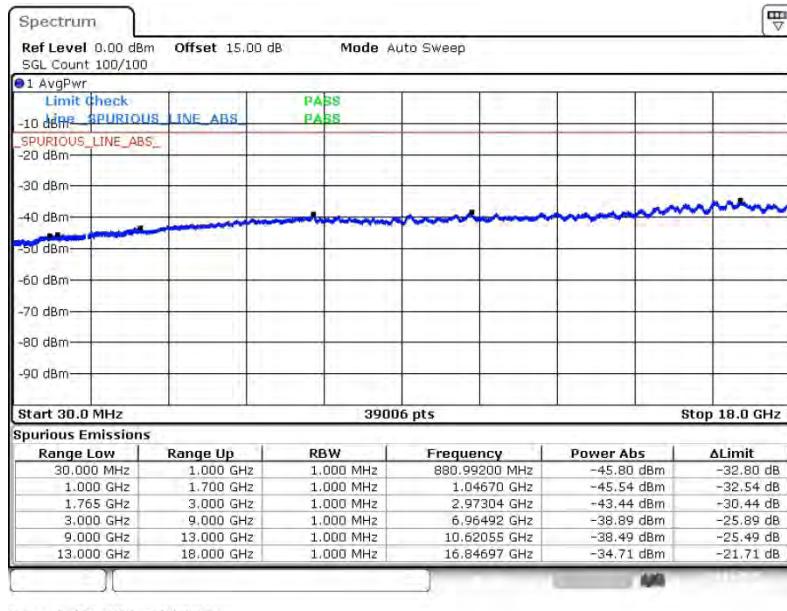


Date: 4.JAN.2015 14:52:29

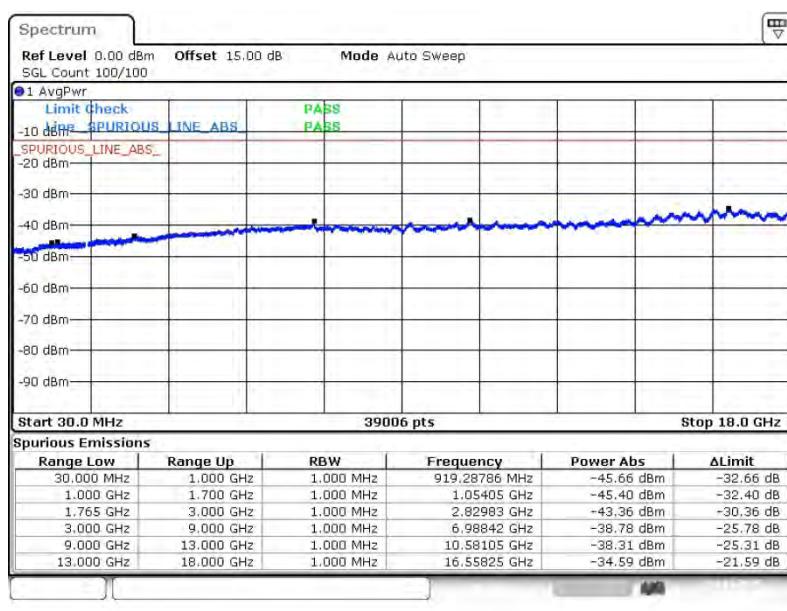


Band :	LTE Band 4	Channel :	CH20375 (High)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 24)



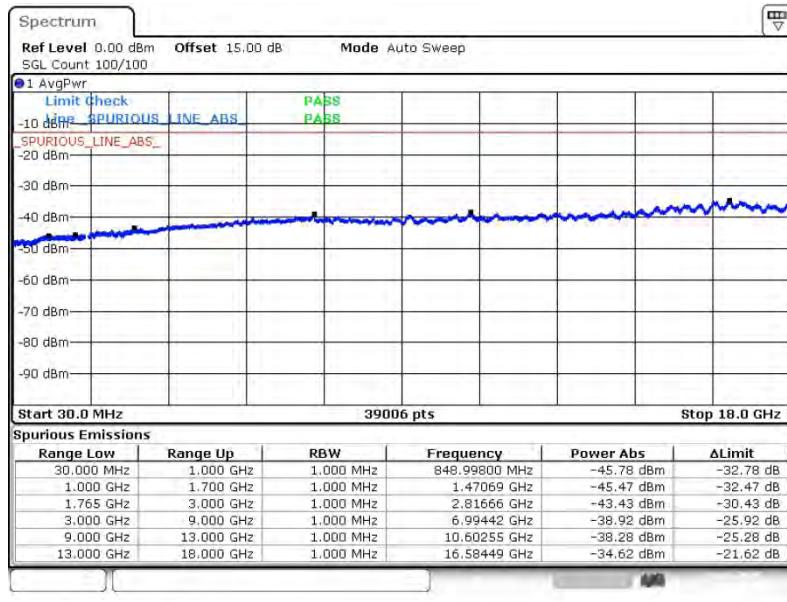
## 16QAM (RB Size 1, RB Offset 0)



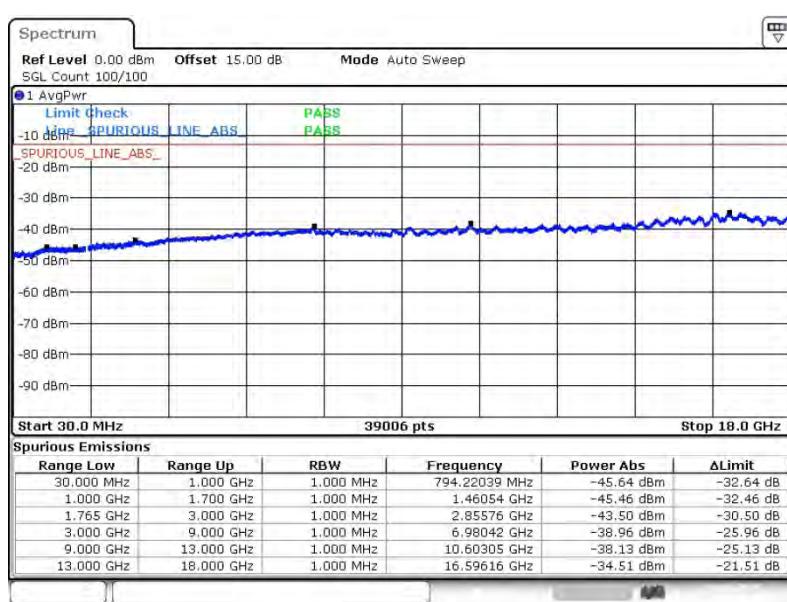


Band :	LTE Band 4	Channel :	CH20000 (Low)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 24)



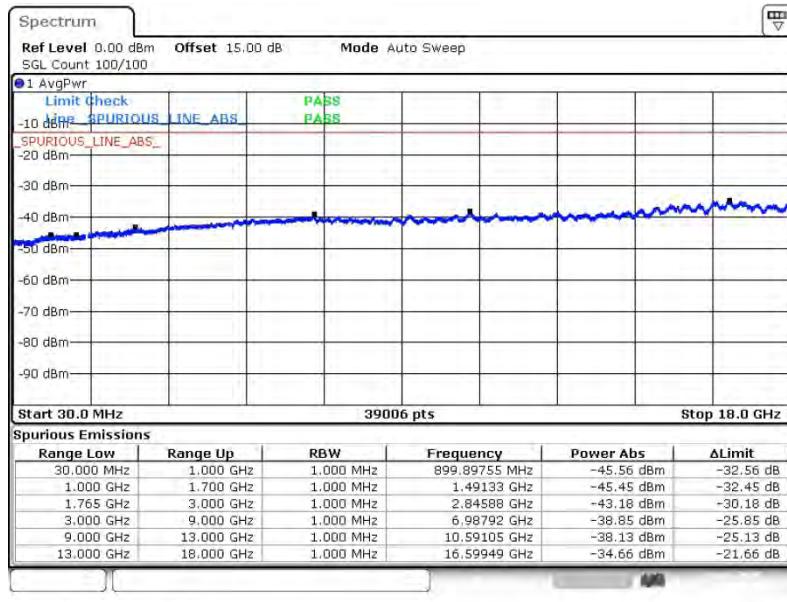
## 16QAM (RB Size 1, RB Offset 0)





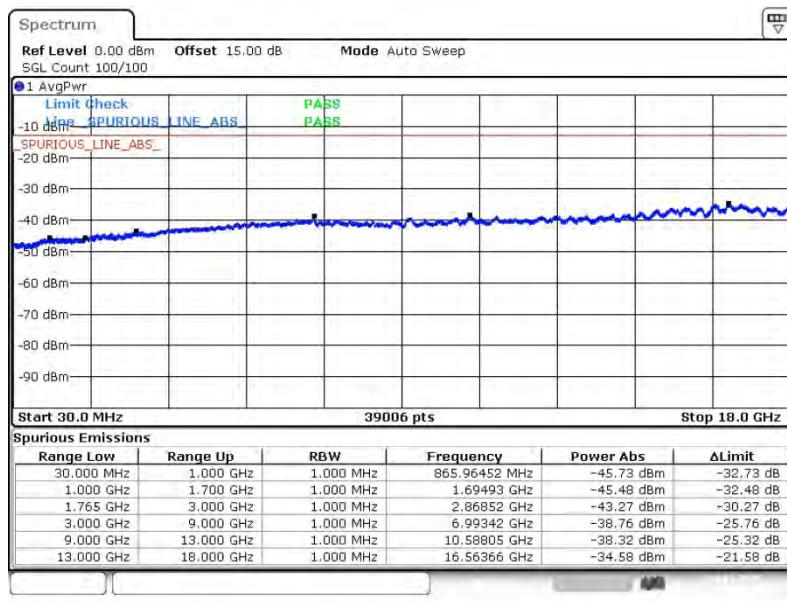
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 15:08:54

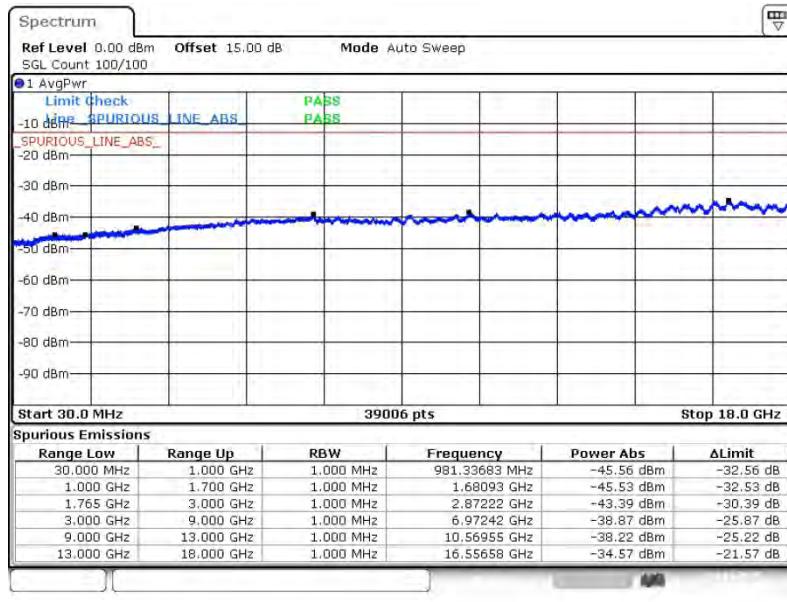
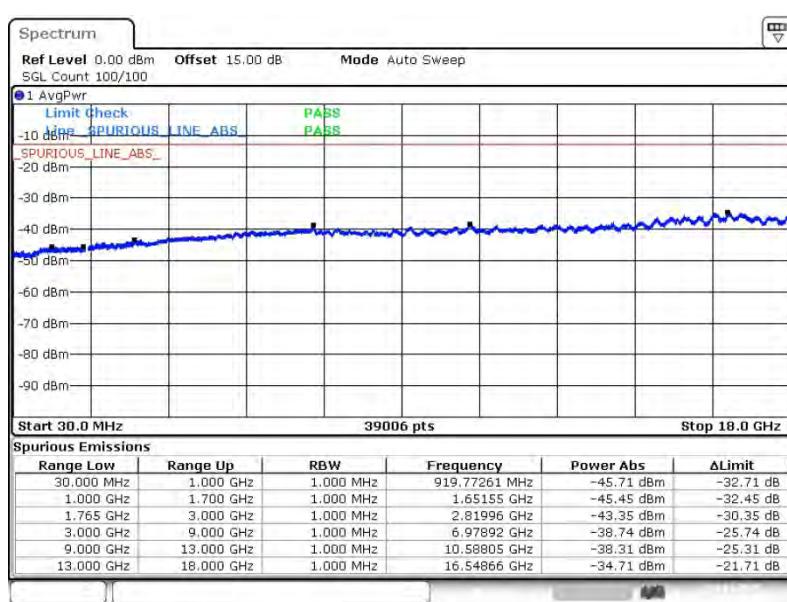
## 16QAM (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 15:10:14



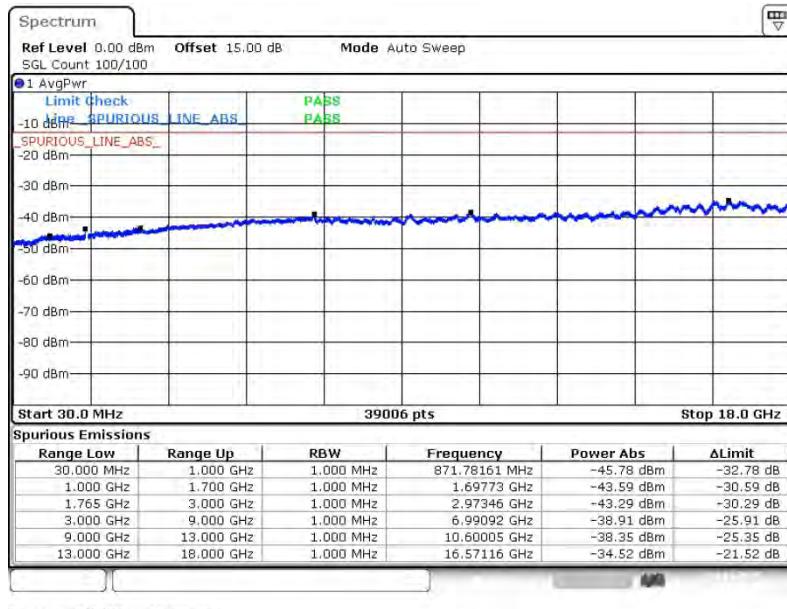
Band :	LTE Band 4	Channel :	CH20350 (High)
Band Width :	10MHz		

**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**

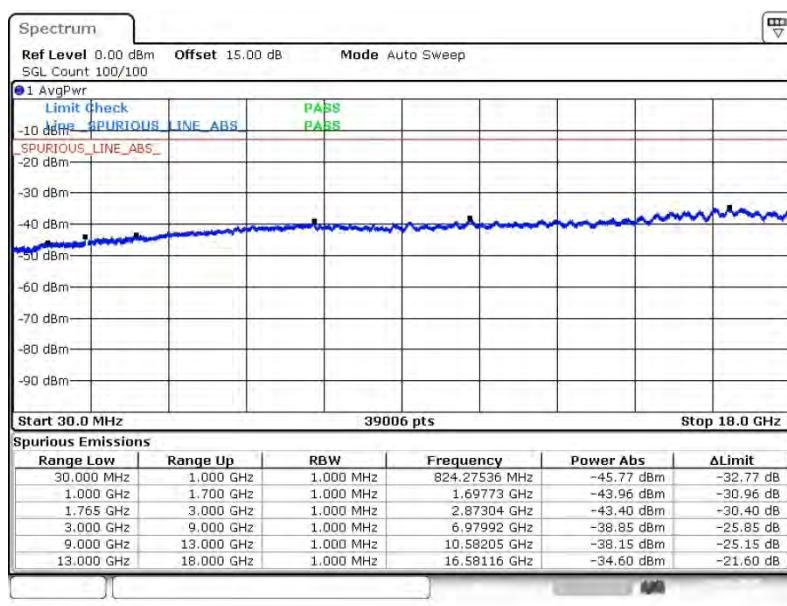


Band :	LTE Band 4	Channel :	CH20025 (Low)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 37)



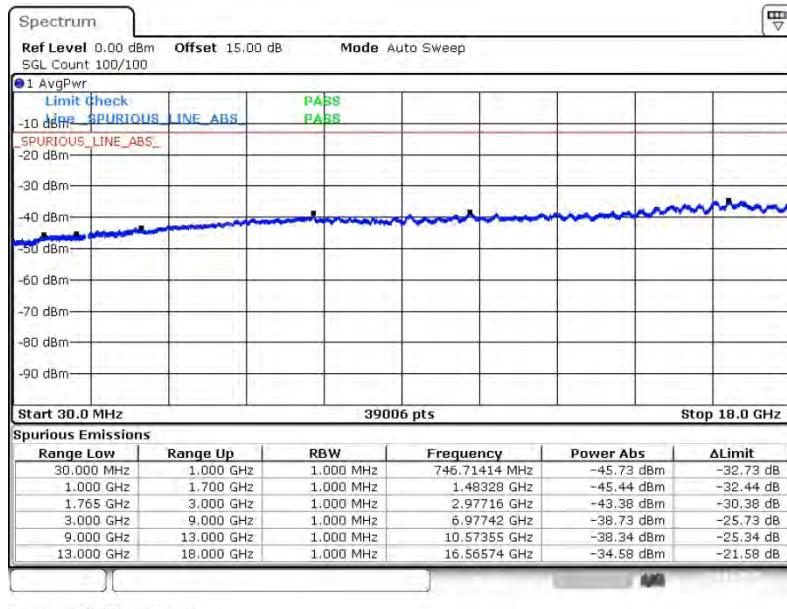
## 16QAM (RB Size 1, RB Offset 0)



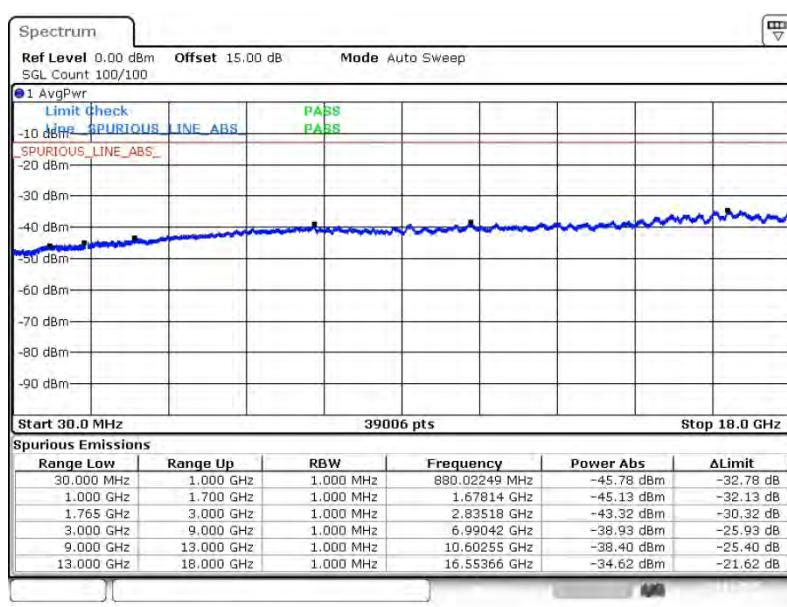


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 0)

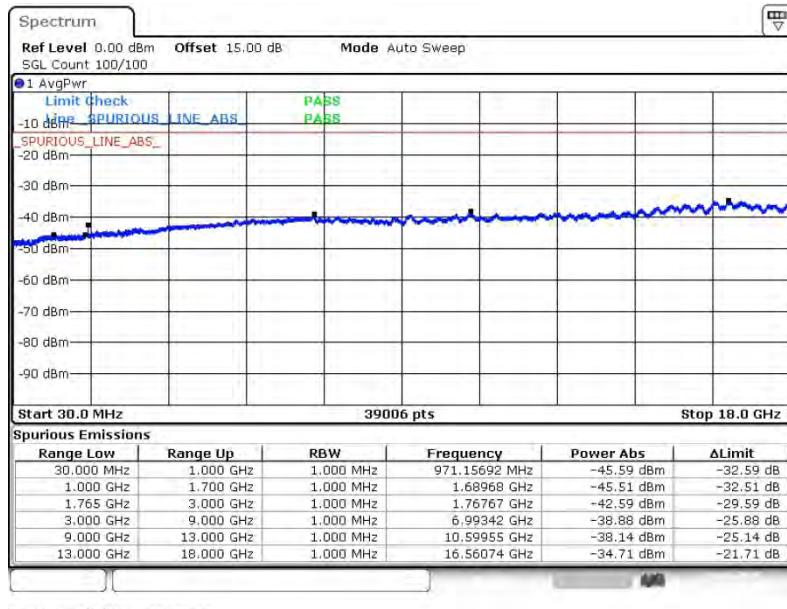
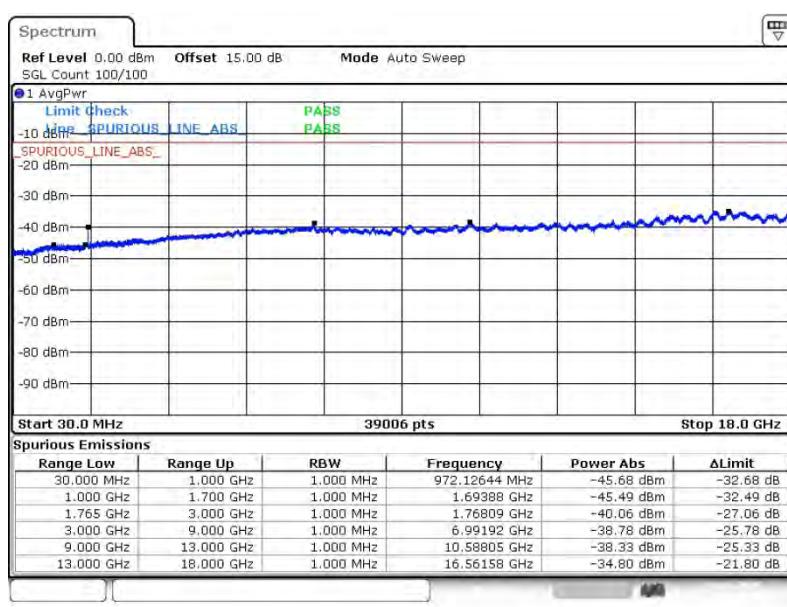


## 16QAM (RB Size 1, RB Offset 0)



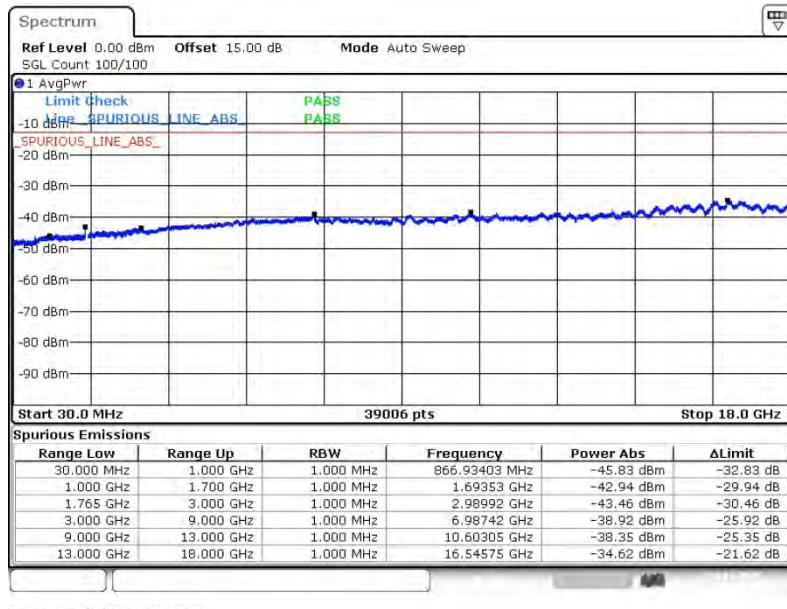
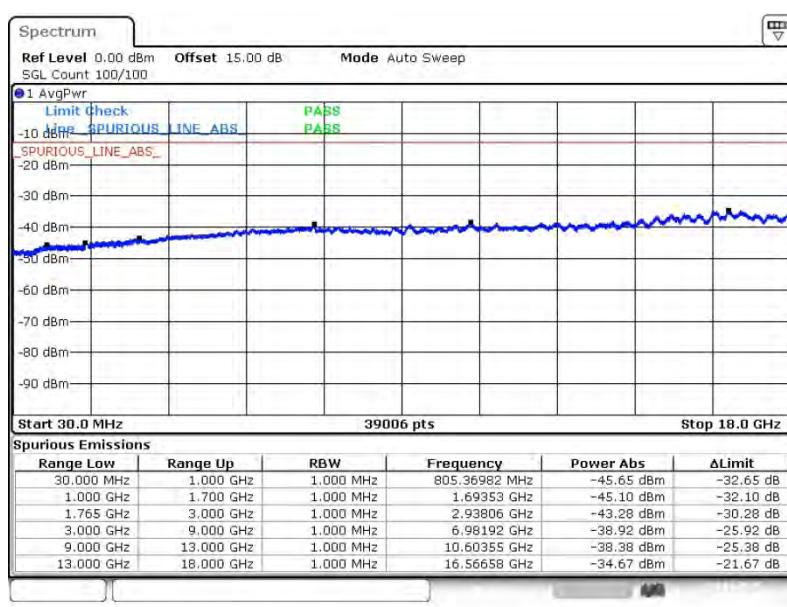


Band :	LTE Band 4	Channel :	CH20325 (High)
Band Width :	15MHz		

**QPSK (RB Size 1, RB Offset 74)****16QAM (RB Size 1, RB Offset 74)**

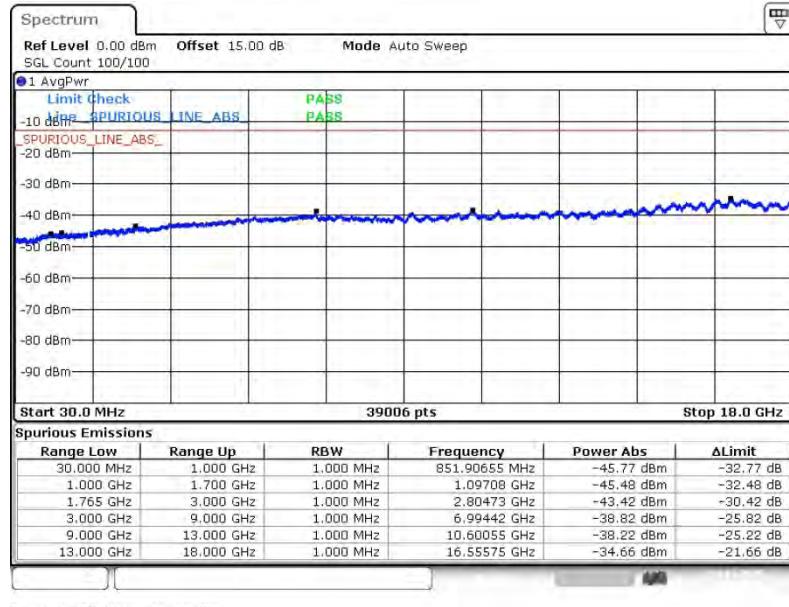
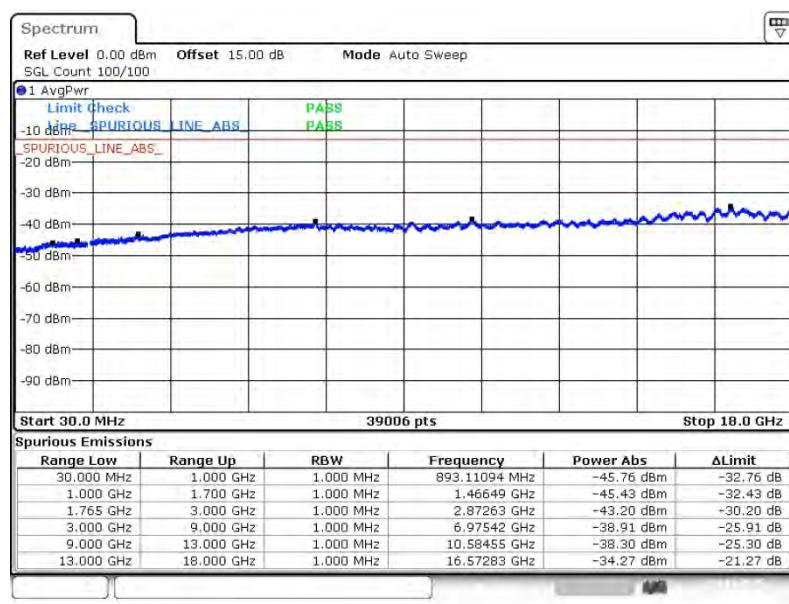


Band :	LTE Band 4	Channel :	CH20050 (Low)
Band Width :	20MHz		

**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**

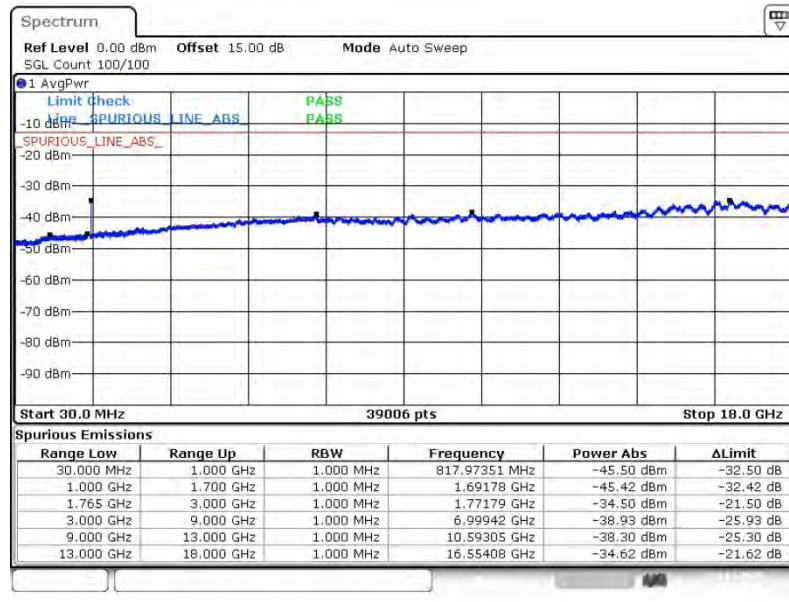
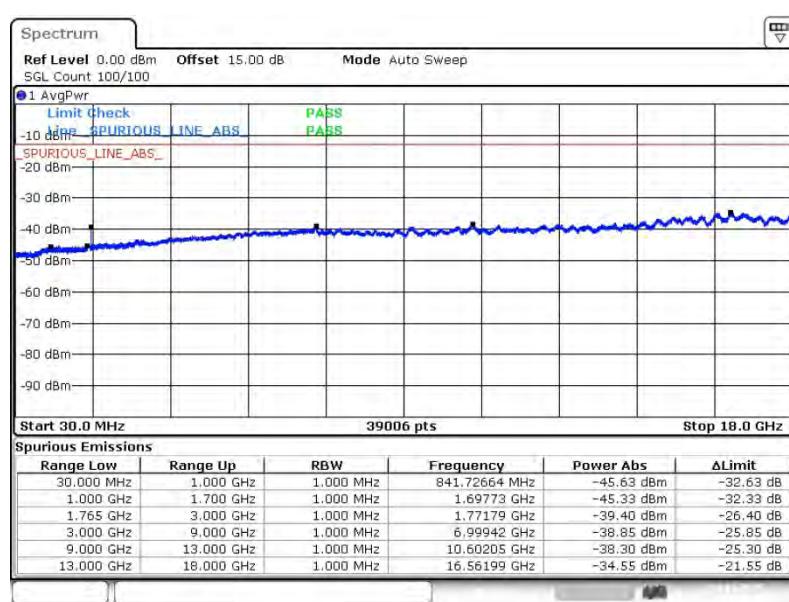


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	20MHz		

**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**

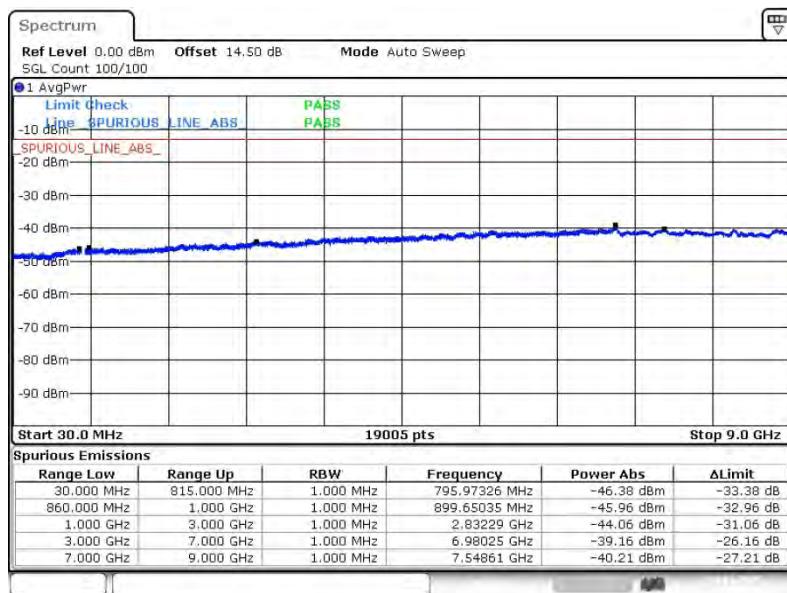


Band :	LTE Band 4	Channel :	CH20300 (High)
Band Width :	20MHz		

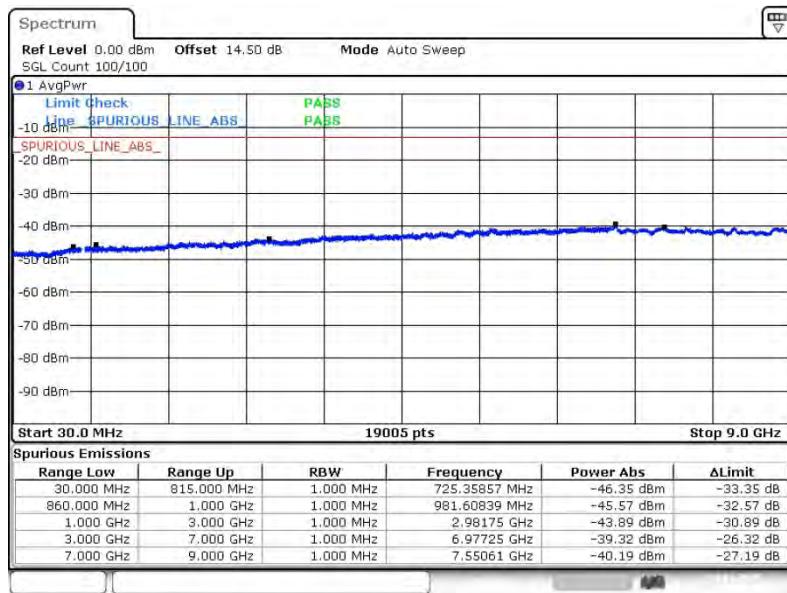
**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**



<b>Band :</b>	LTE Band 5	<b>Channel :</b>	CH20407 (Low)
<b>Band Width :</b>	1.4MHz		

**QPSK (RB Size 3, RB Offset 1)**

Date: 4.JAN.2015 17:51:42

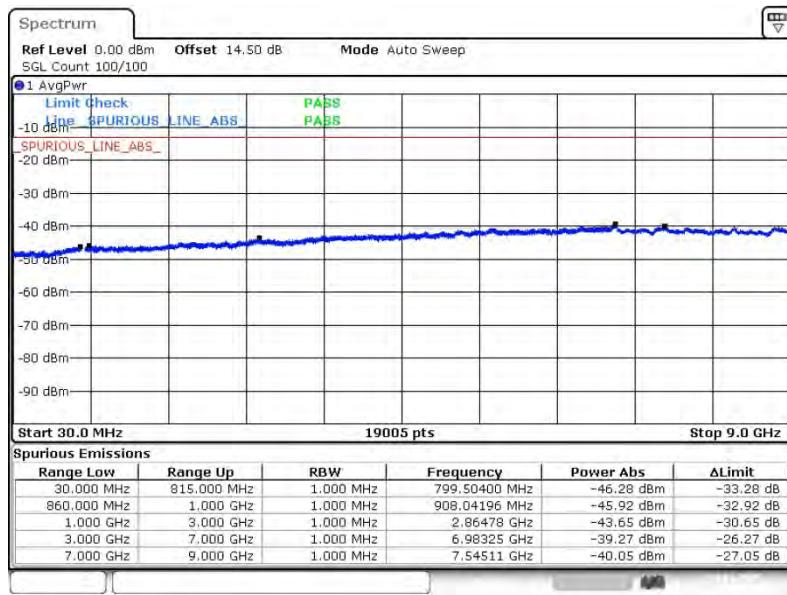
**16QAM (RB Size 3, RB Offset 1)**

Date: 4.JAN.2015 17:53:01



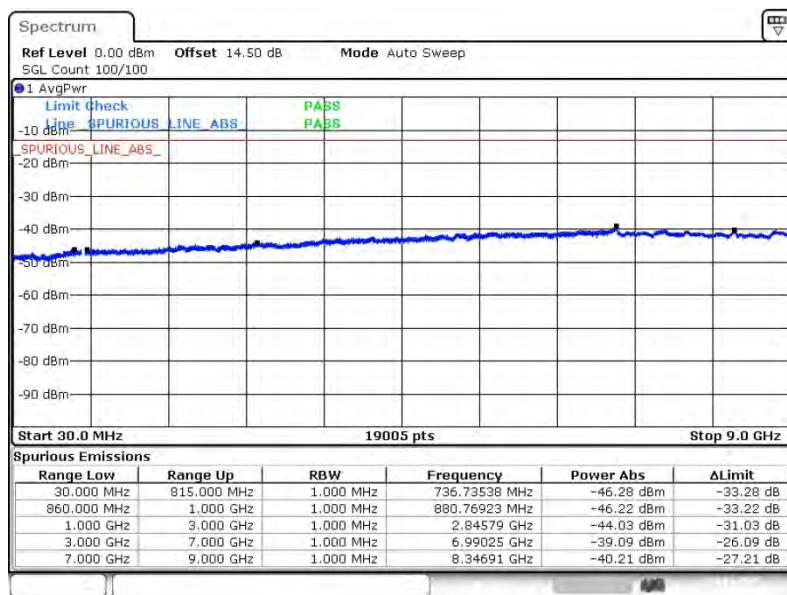
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	1.4MHz		

## QPSK (RB Size 3, RB Offset 1)



Date: 4.JAN.2015 17:55:06

## 16QAM (RB Size 3, RB Offset 1)

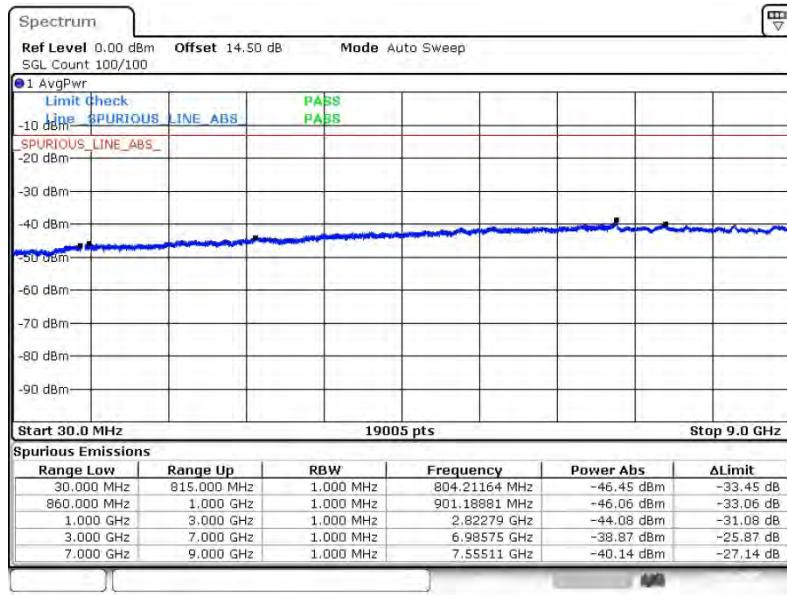


Date: 4.JAN.2015 17:56:25

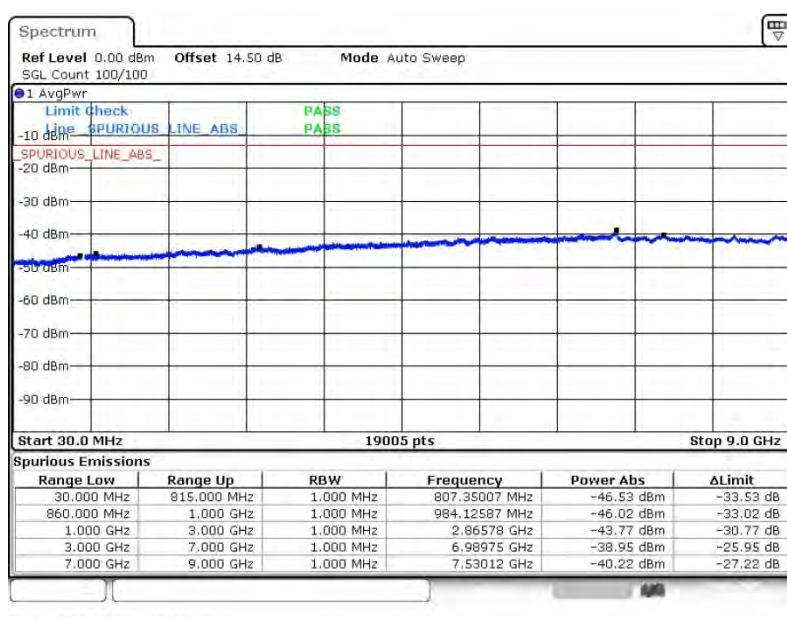


Band :	LTE Band 5	Channel :	CH20643 (High)
Band Width :	1.4MHz		

## QPSK (RB Size 3, RB Offset 0)



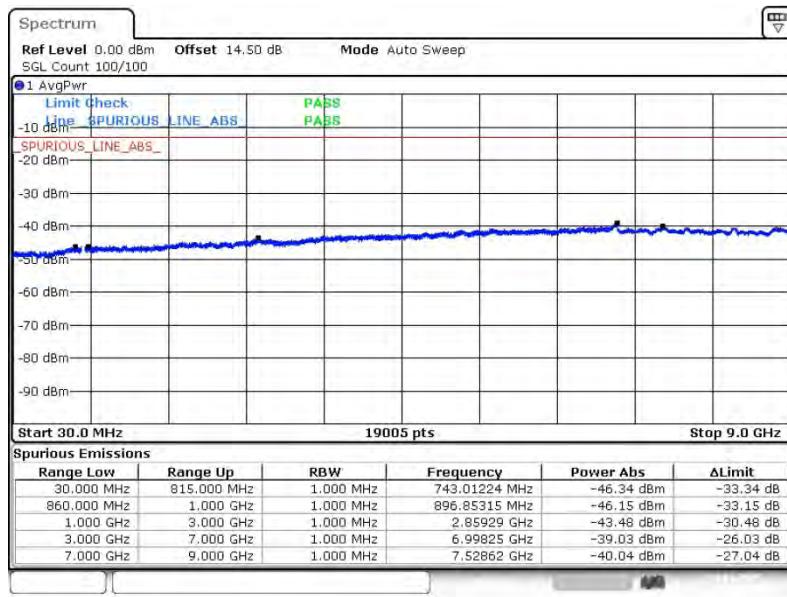
## 16QAM (RB Size 3, RB Offset 1)



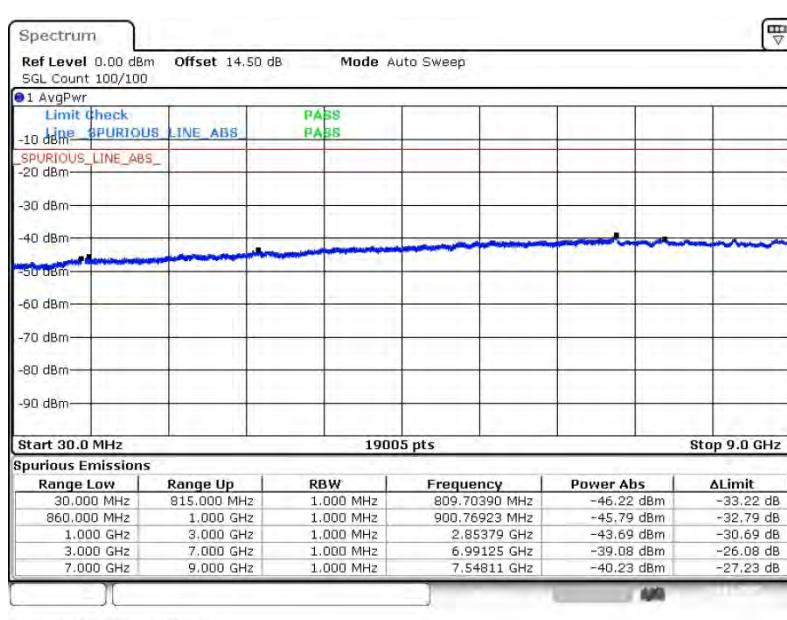


Band :	LTE Band 5	Channel :	CH20415 (Low)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



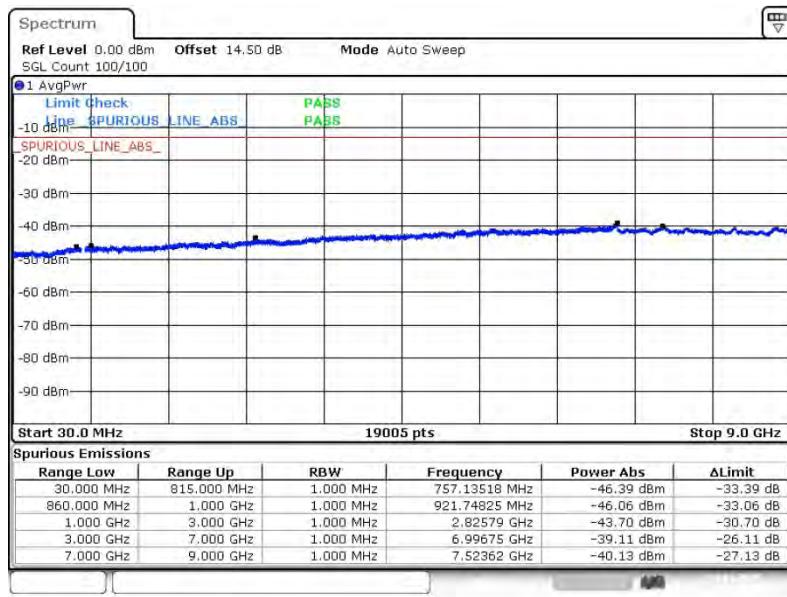
## 16QAM (RB Size 1, RB Offset 0)





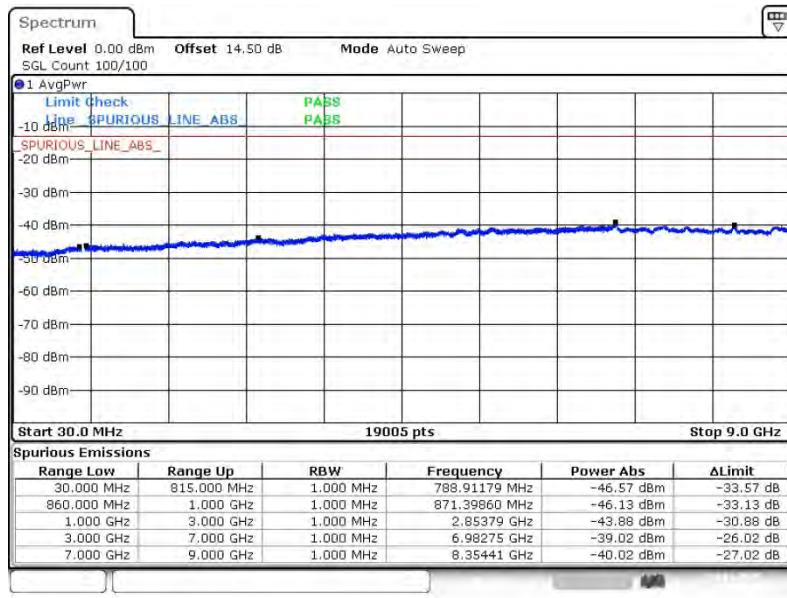
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 18:17:30

## 16QAM (RB Size 1, RB Offset 0)

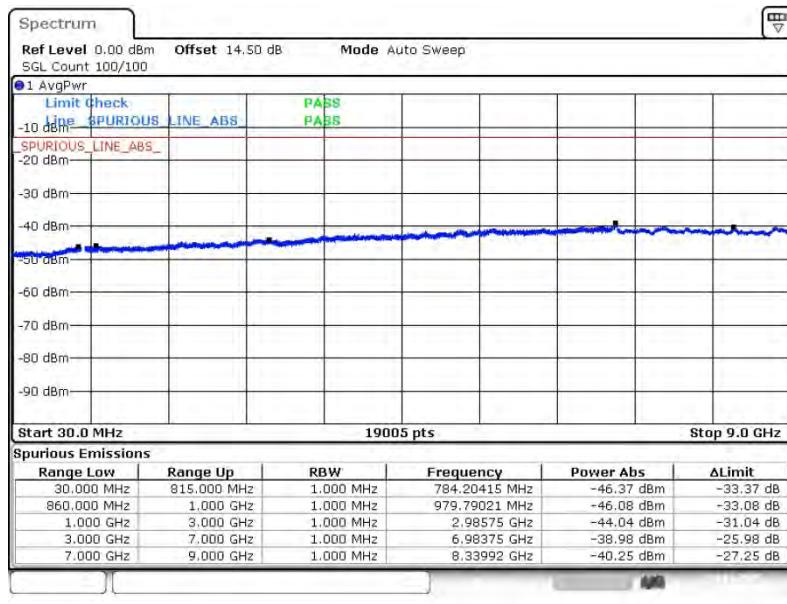


Date: 4.JAN.2015 18:18:49



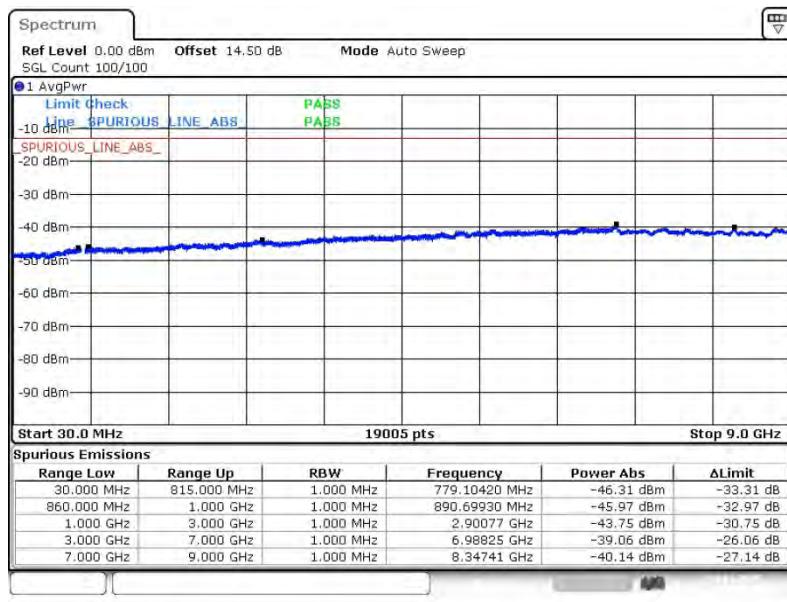
Band :	LTE Band 5	Channel :	CH20635 (High)
Band Width :	3MHz		

## QPSK (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 18:26:51

## 16QAM (RB Size 1, RB Offset 0)

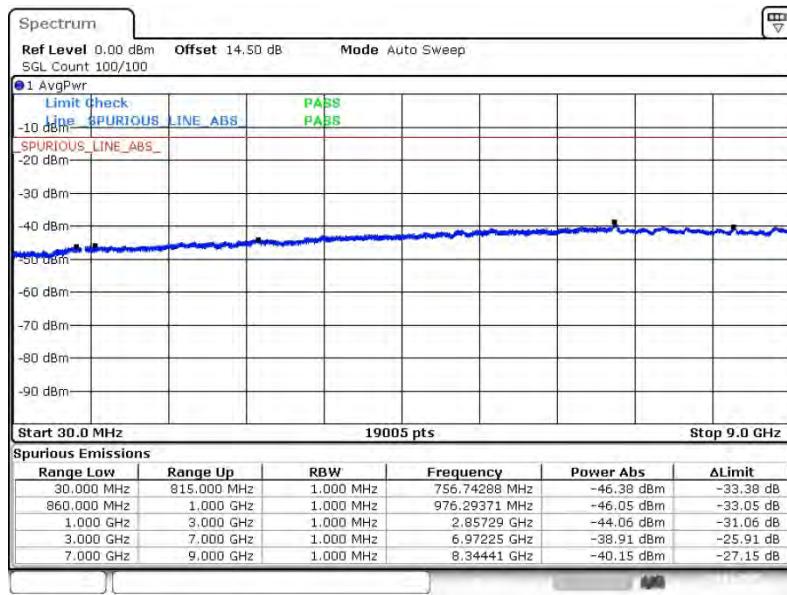


Date: 4.JAN.2015 18:28:10



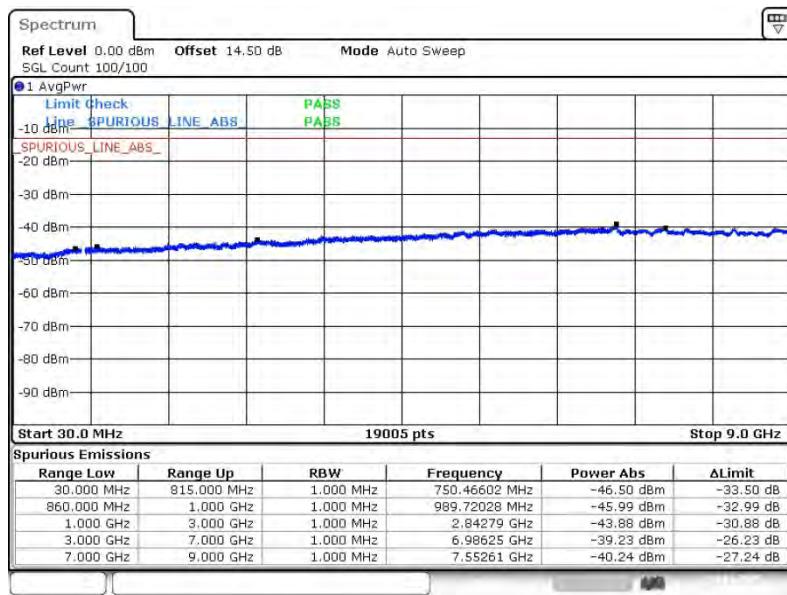
Band :	LTE Band 5	Channel :	CH20425 (Low)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 24)



Date: 4.JAN.2015 18:36:12

## 16QAM (RB Size 1, RB Offset 24)

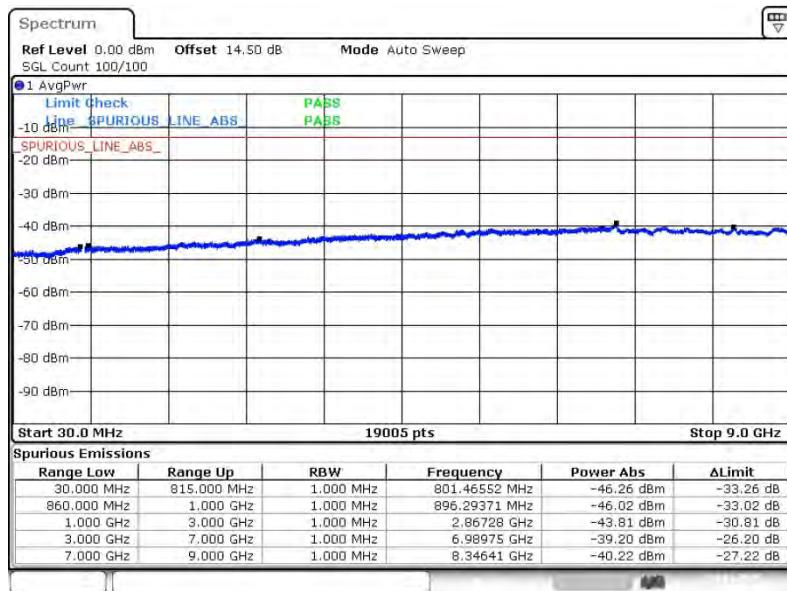


Date: 4.JAN.2015 18:37:31



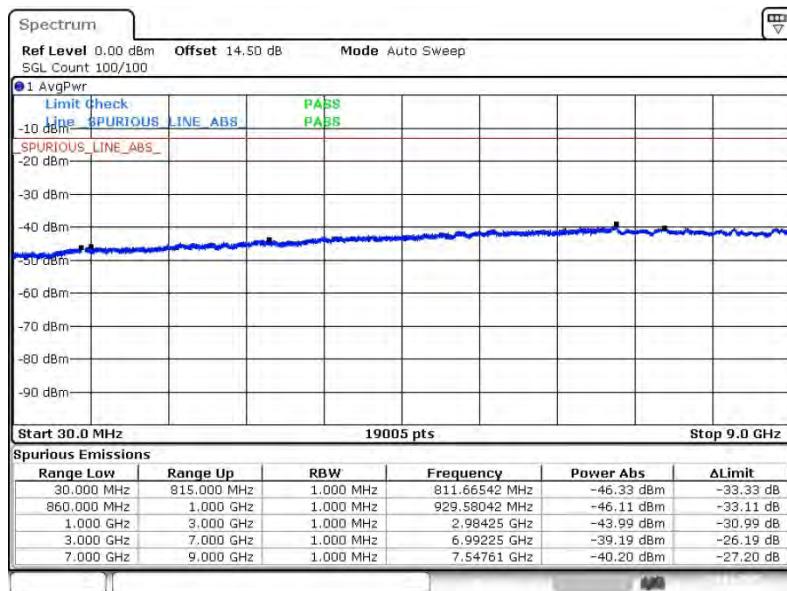
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 12)



Date: 4.JAN.2015 18:39:35

## 16QAM (RB Size 1, RB Offset 24)

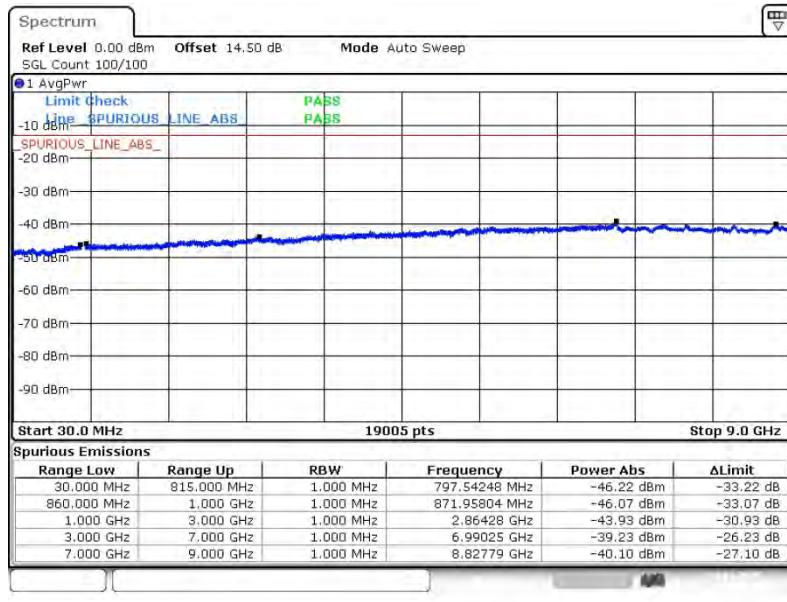


Date: 4.JAN.2015 18:40:55

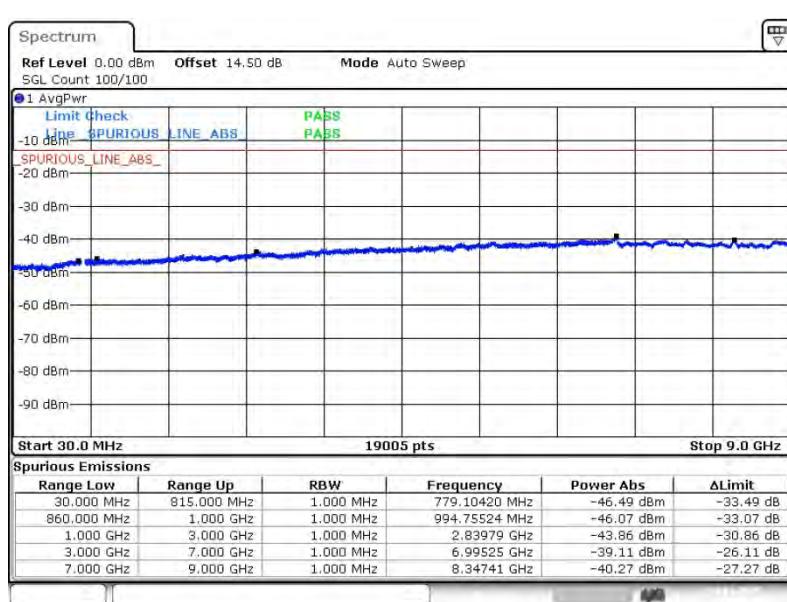


Band :	LTE Band 5	Channel :	CH20625 (High)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 24)



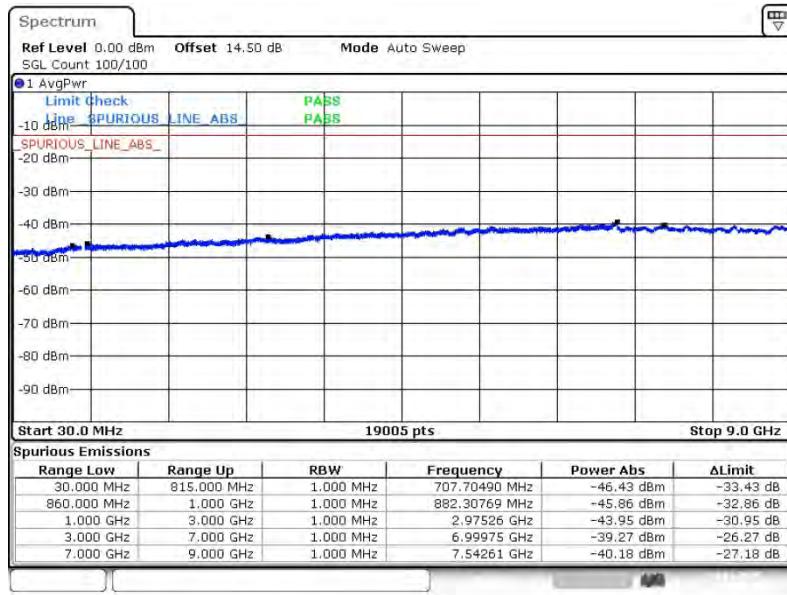
## 16QAM (RB Size 1, RB Offset 24)





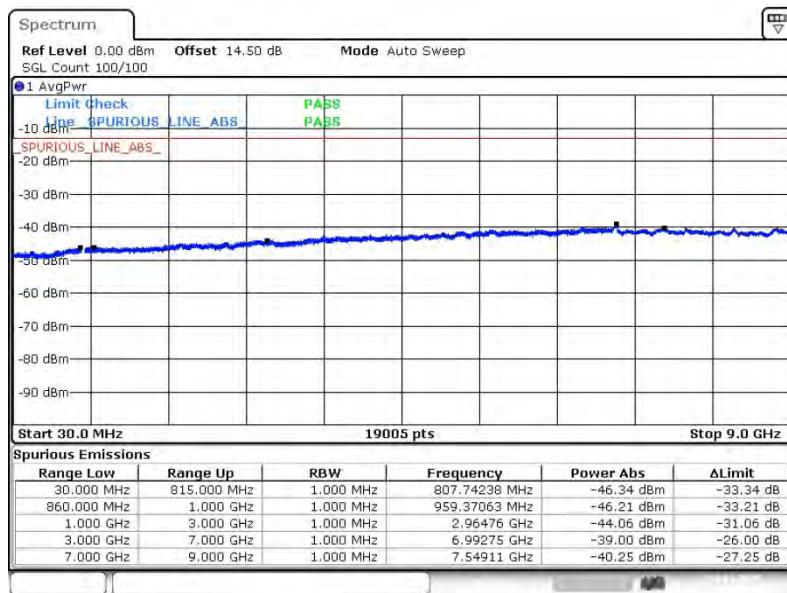
Band :	LTE Band 5	Channel :	CH20450 (Low)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 18:58:17

## 16QAM (RB Size 1, RB Offset 49)

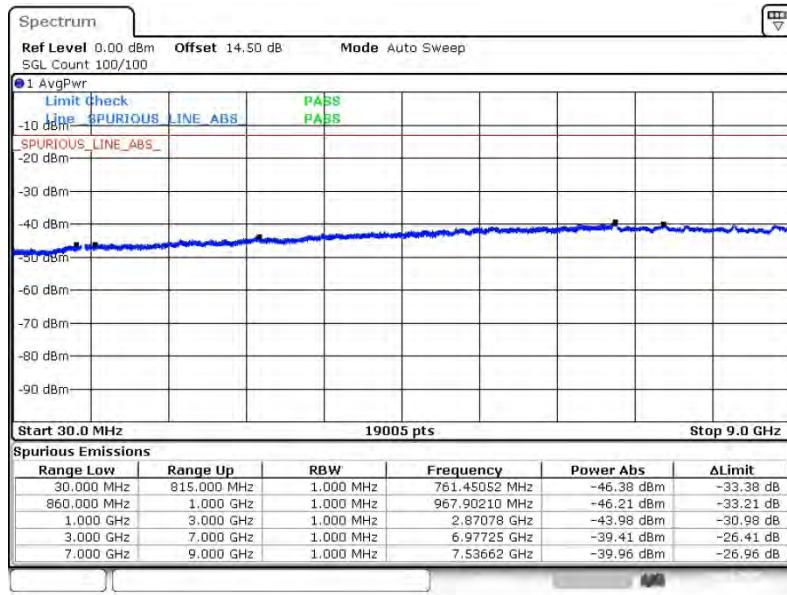


Date: 4.JAN.2015 18:59:36



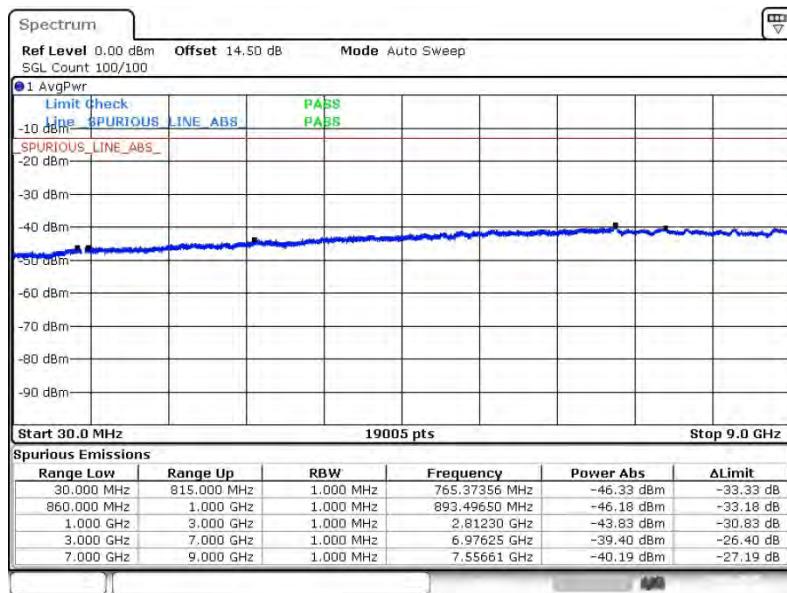
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 19:01:41

## 16QAM (RB Size 1, RB Offset 49)

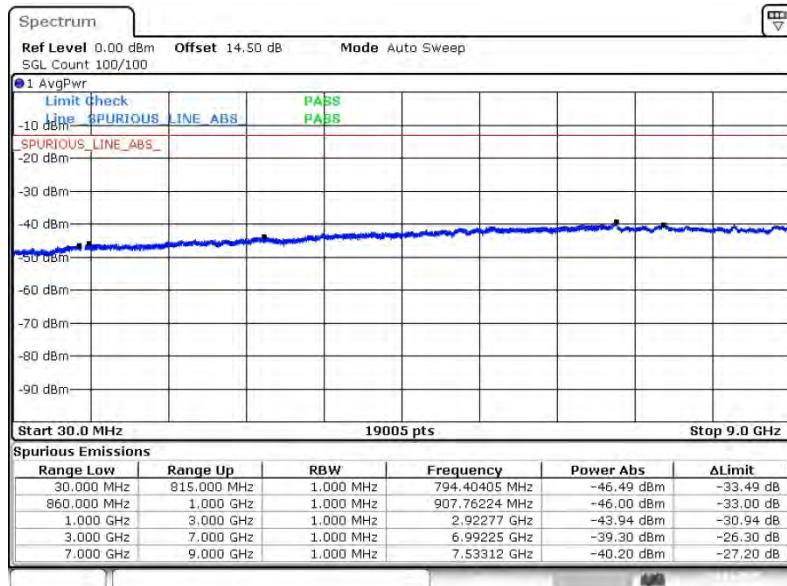


Date: 4.JAN.2015 19:03:00



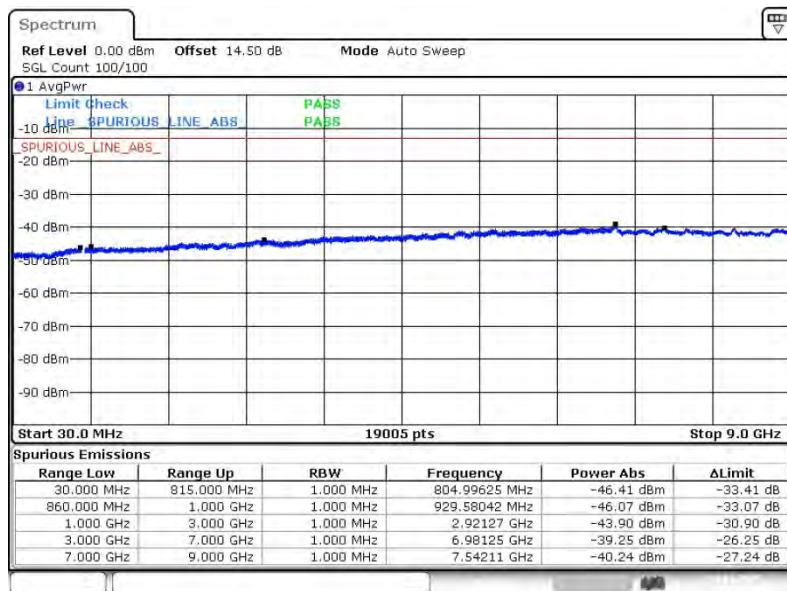
Band :	LTE Band 5	Channel :	CH20600 (High)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 49)



Date: 4.JAN.2015 19:11:01

## 16QAM (RB Size 1, RB Offset 49)

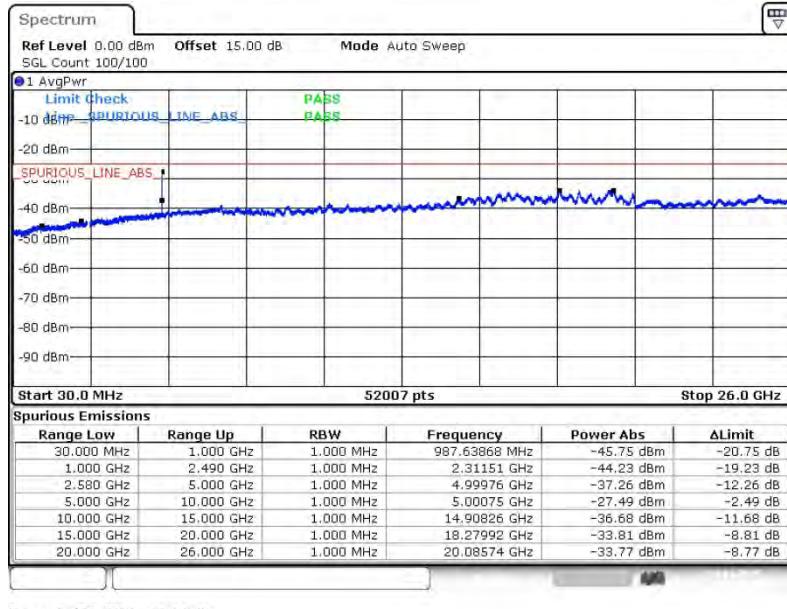


Date: 4.JAN.2015 19:12:21

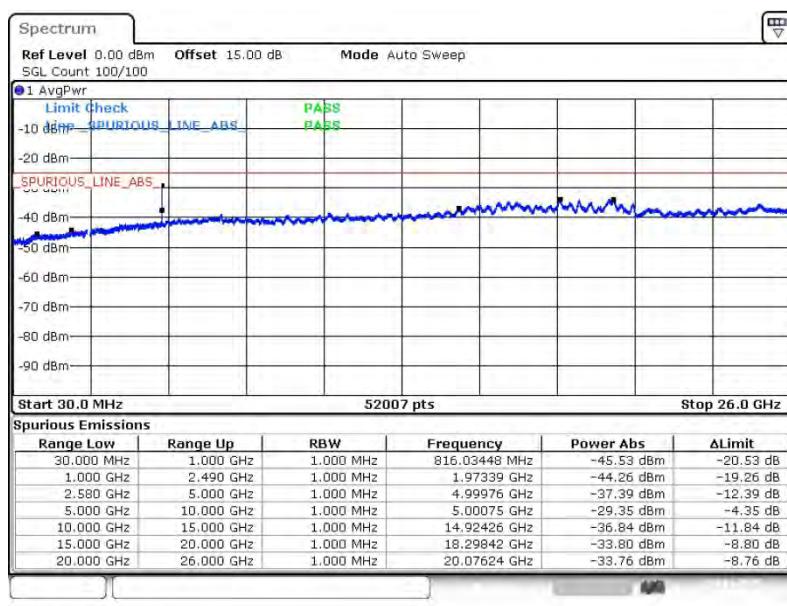


Band :	LTE Band 7	Channel :	CH20775 (Low)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 12)

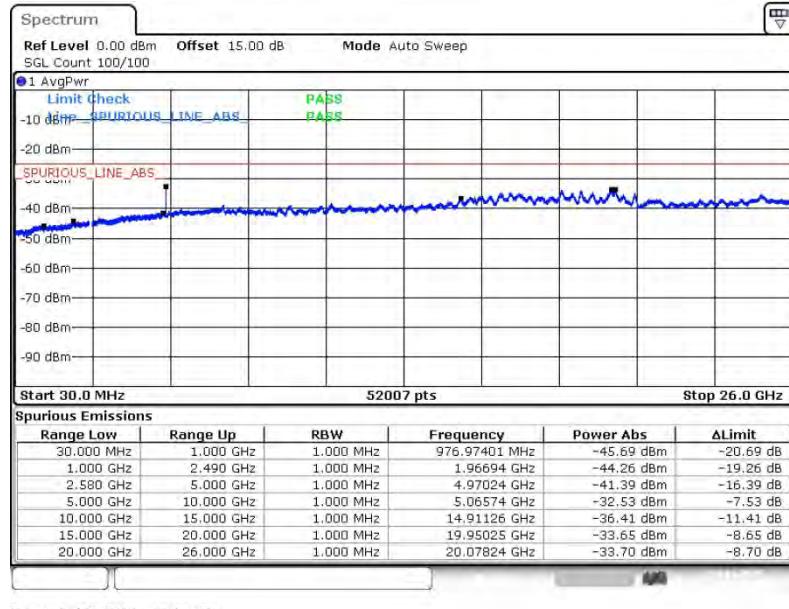
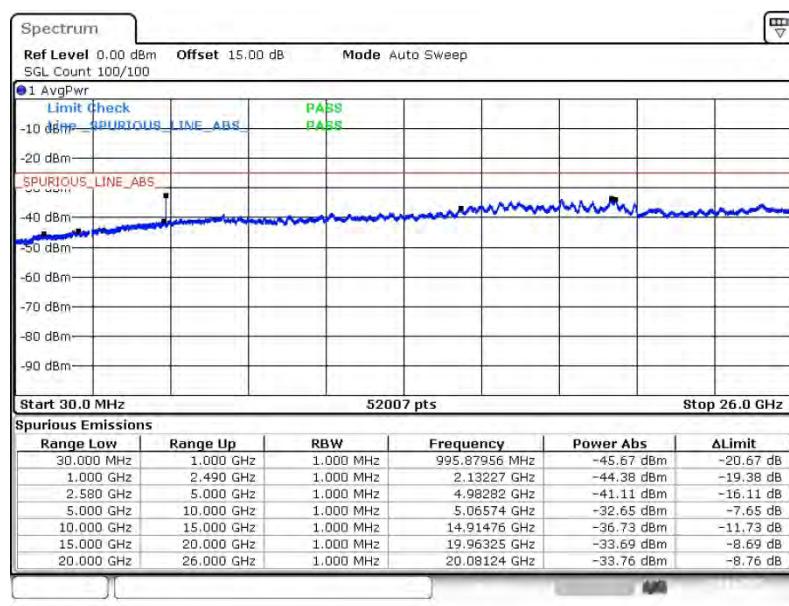


## 16QAM(RB Size 1, RB Offset 12)





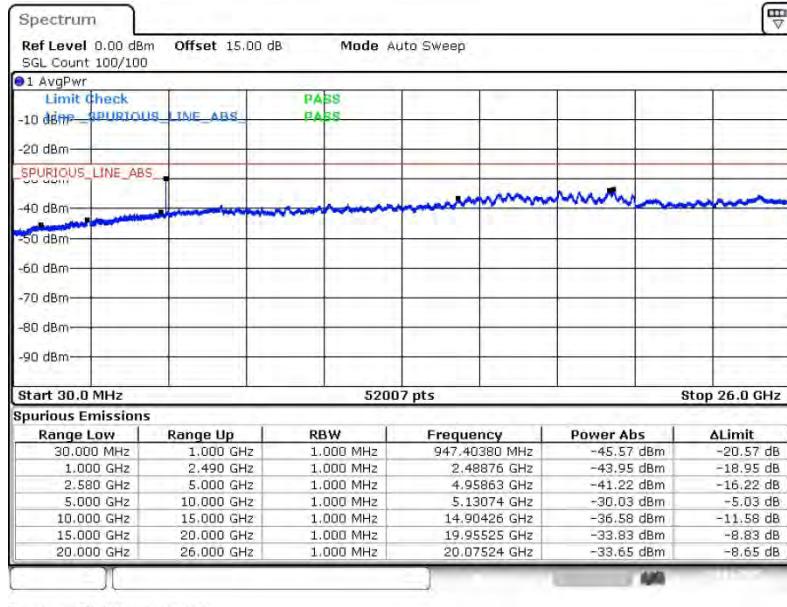
Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	5MHz		

**QPSK (RB Size 1, RB Offset 24)****16QAM (RB Size 1, RB Offset 24)**

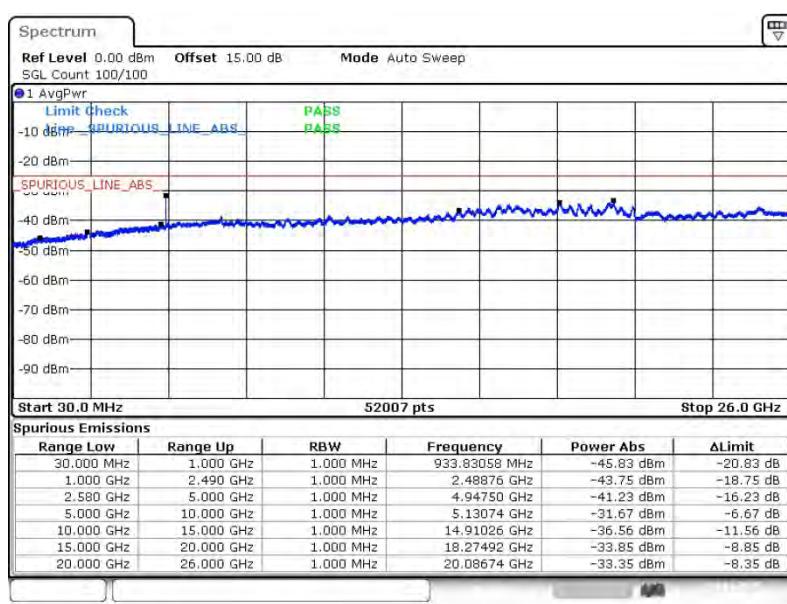


Band :	LTE Band 7	Channel :	CH21425 (High)
Band Width :	5MHz		

## QPSK (RB Size 1, RB Offset 0)



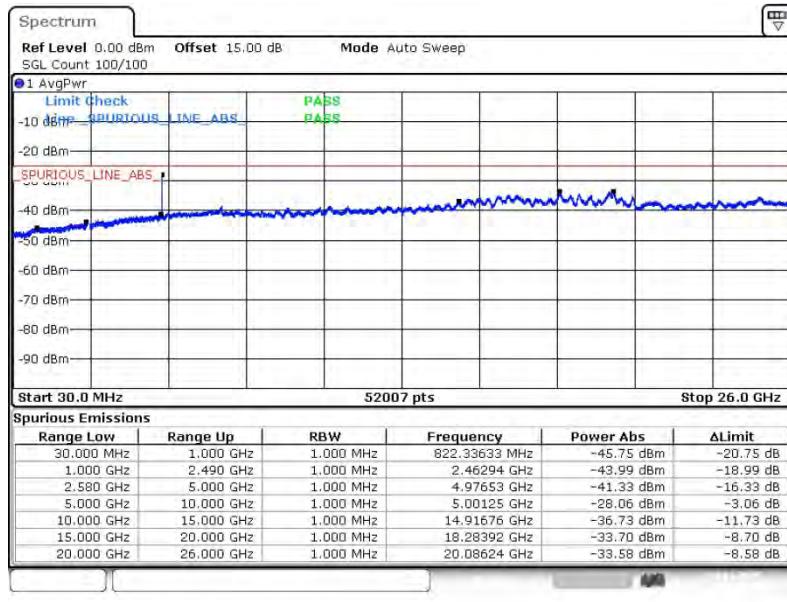
## 16QAM (RB Size 1, RB Offset 0)





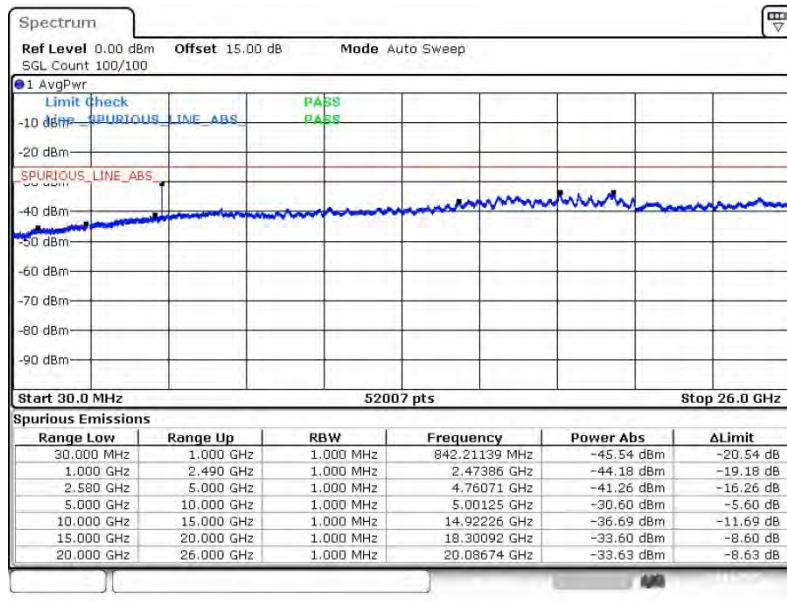
Band :	LTE Band 7	Channel :	CH20800 (Low)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 11:13:16

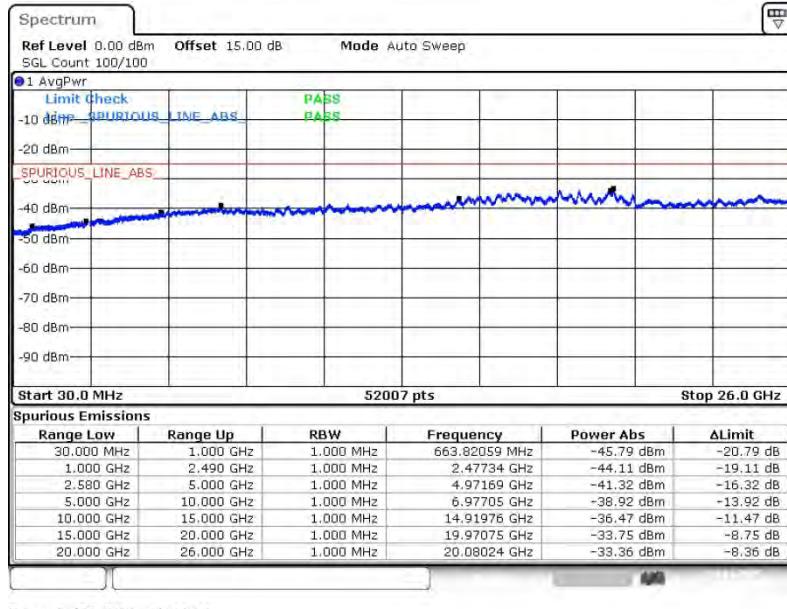
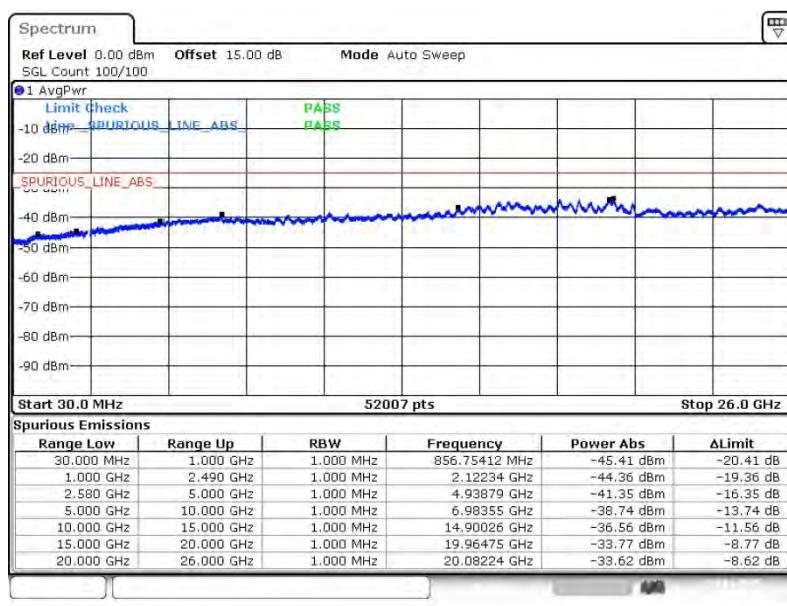
## 16QAM (RB Size 1, RB Offset 0)



Date: 4.JAN.2015 11:14:36



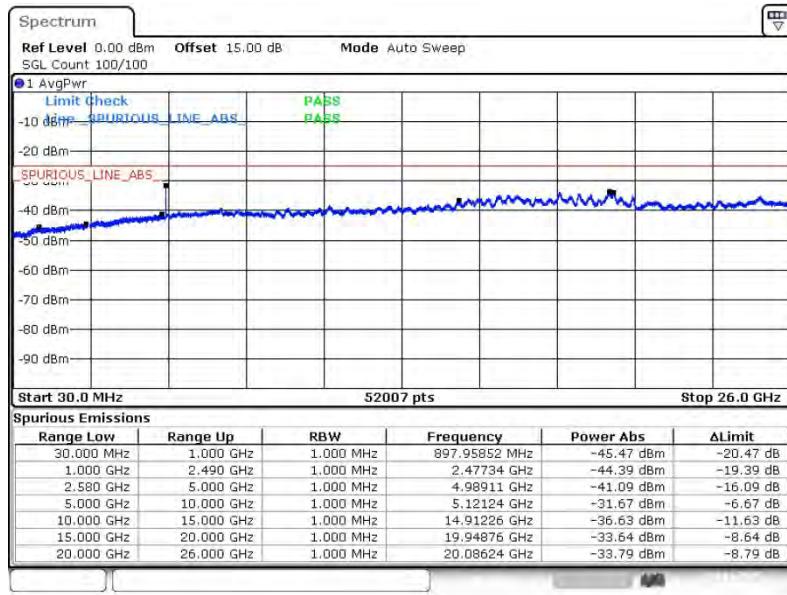
Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	10MHz		

**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**

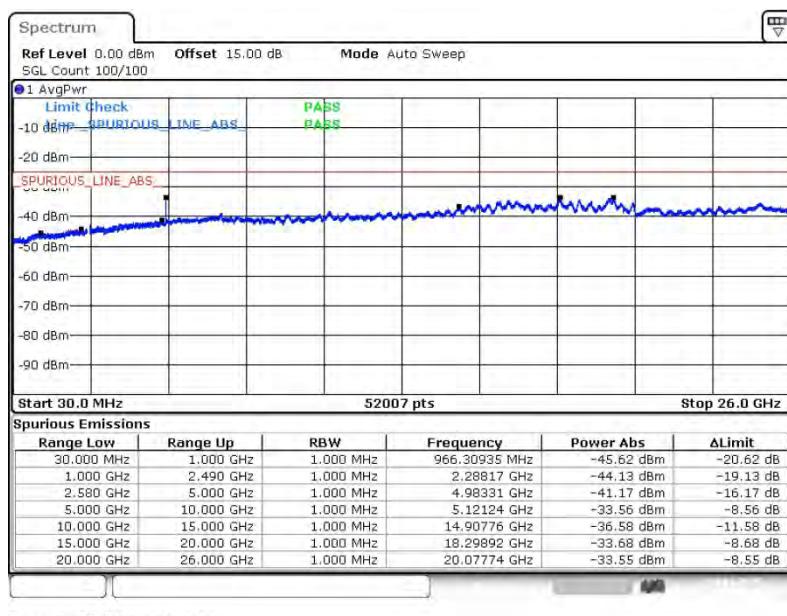


Band :	LTE Band 7	Channel :	CH21400 (High)
Band Width :	10MHz		

## QPSK (RB Size 1, RB Offset 0)



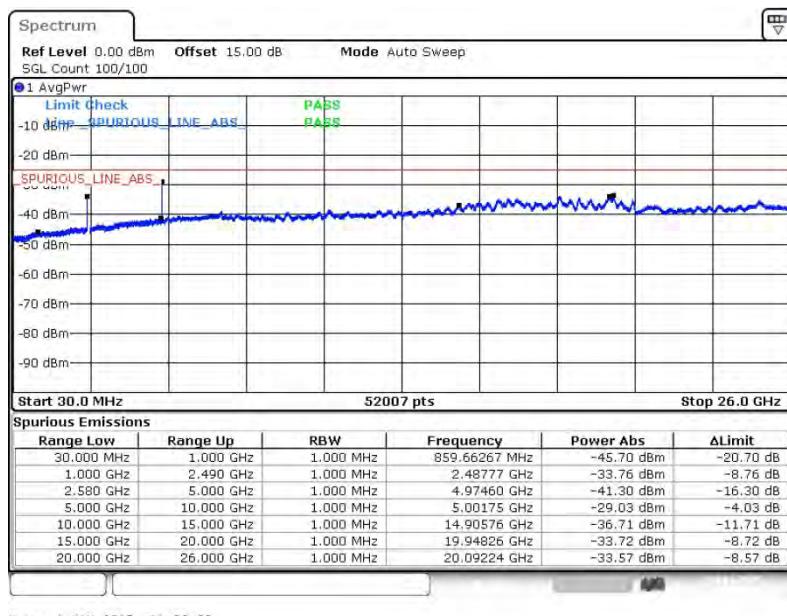
## 16QAM (RB Size 1, RB Offset 0)



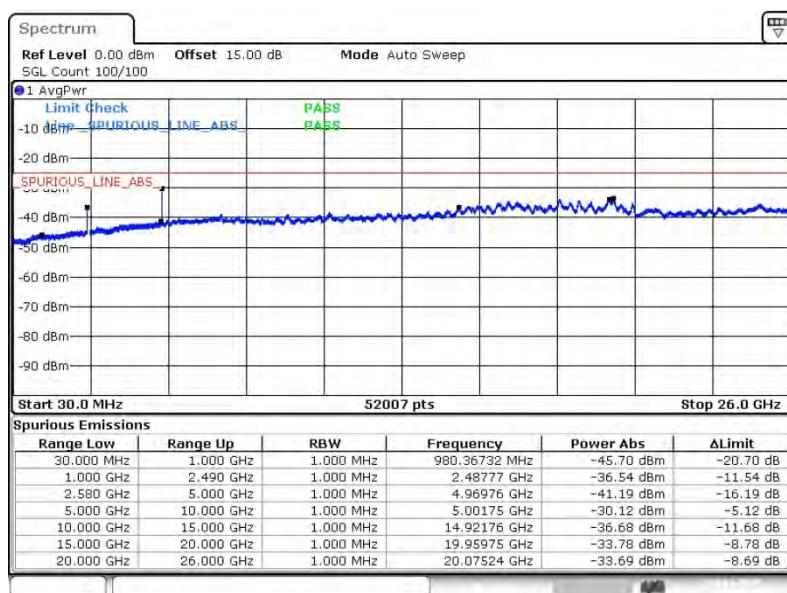


Band :	LTE Band 7	Channel :	CH20825 (Low)
Band Width :	15MHz		

## QPSK (RB Size 1, RB Offset 0)

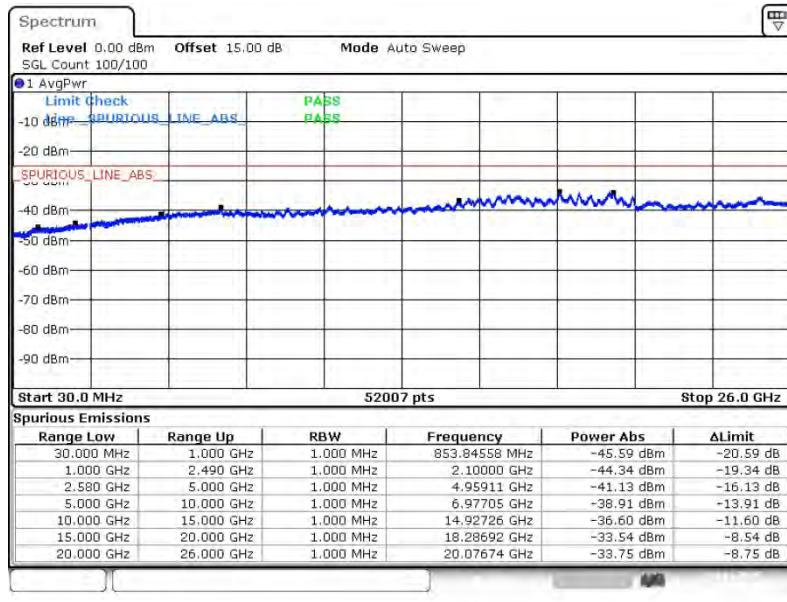
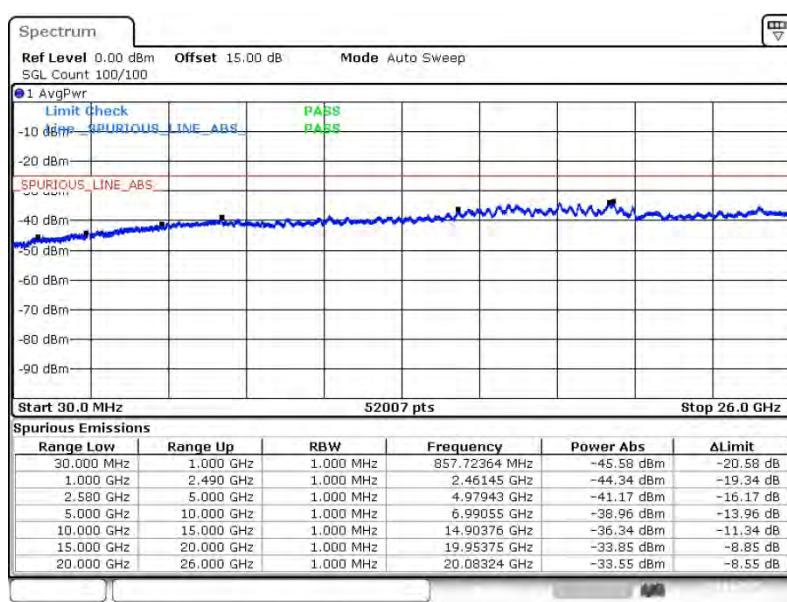


## 16QAM (RB Size 1, RB Offset 0)



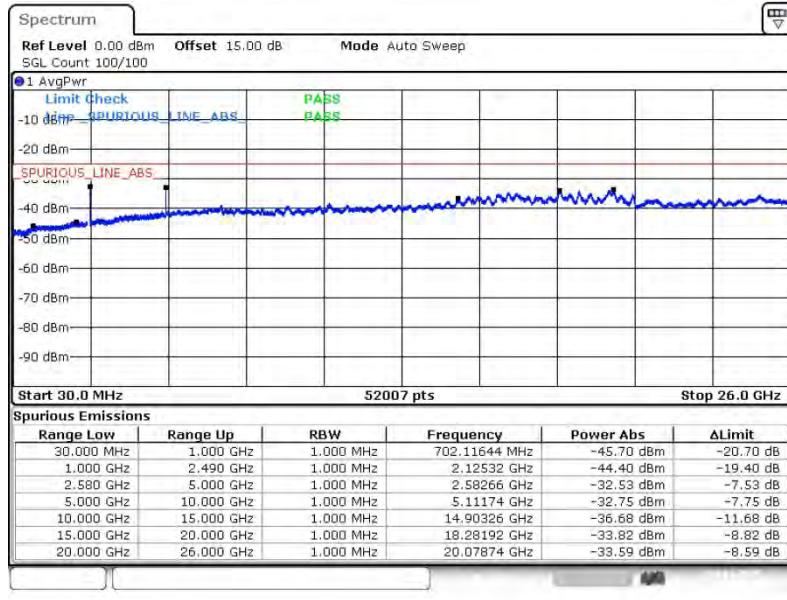
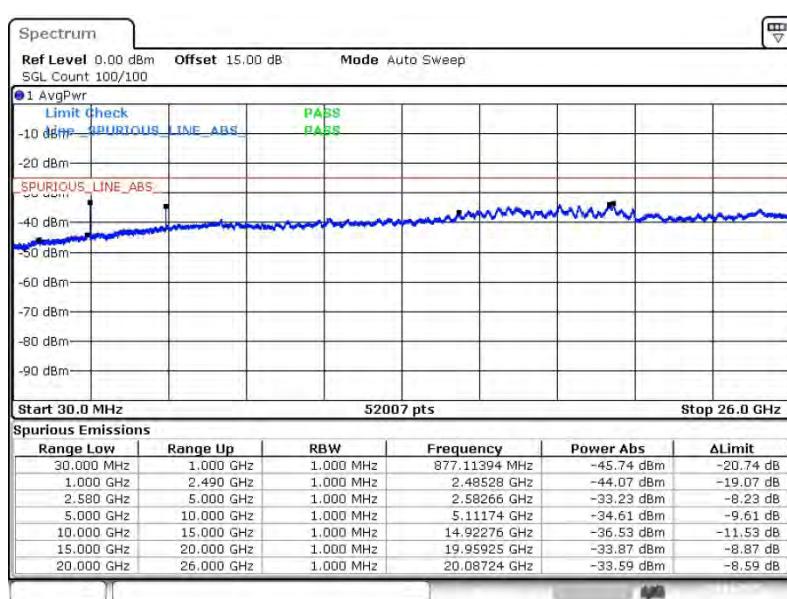


Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	15MHz		

**QPSK (RB Size 1, RB Offset 74)****16QAM (RB Size 1, RB Offset 74)**



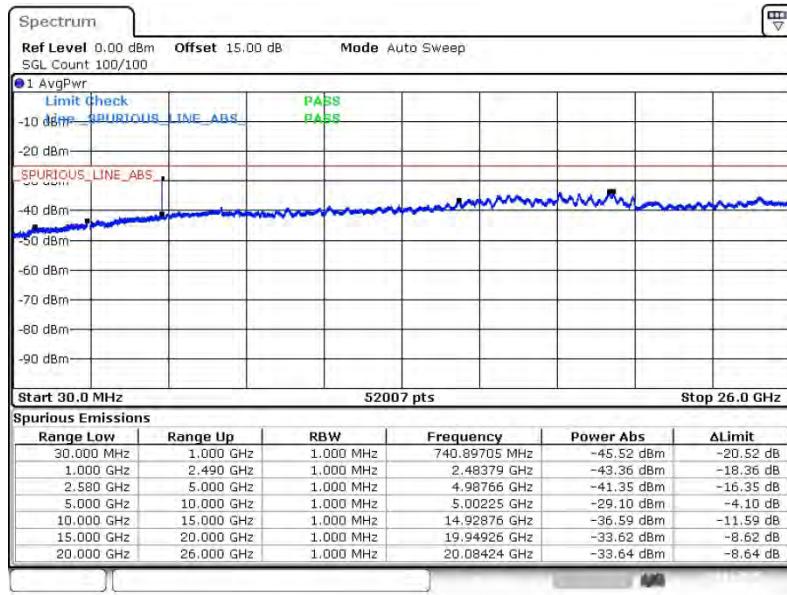
Band :	LTE Band 7	Channel :	CH21375 (High)
Band Width :	15MHz		

**QPSK (RB Size 1, RB Offset 74)****16QAM (RB Size 1, RB Offset 74)**

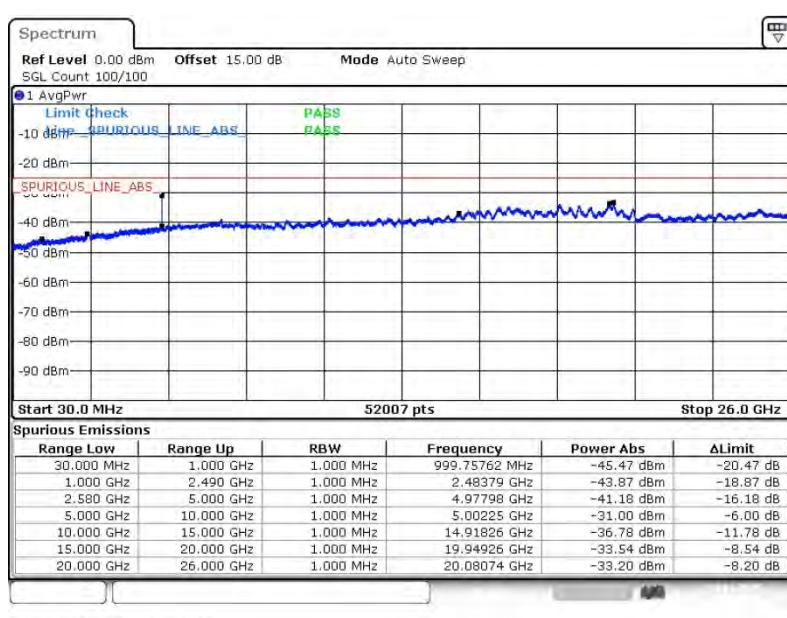


Band :	LTE Band 7	Channel :	CH20850 (Low)
Band Width :	20MHz		

## QPSK (RB Size 1, RB Offset 49)



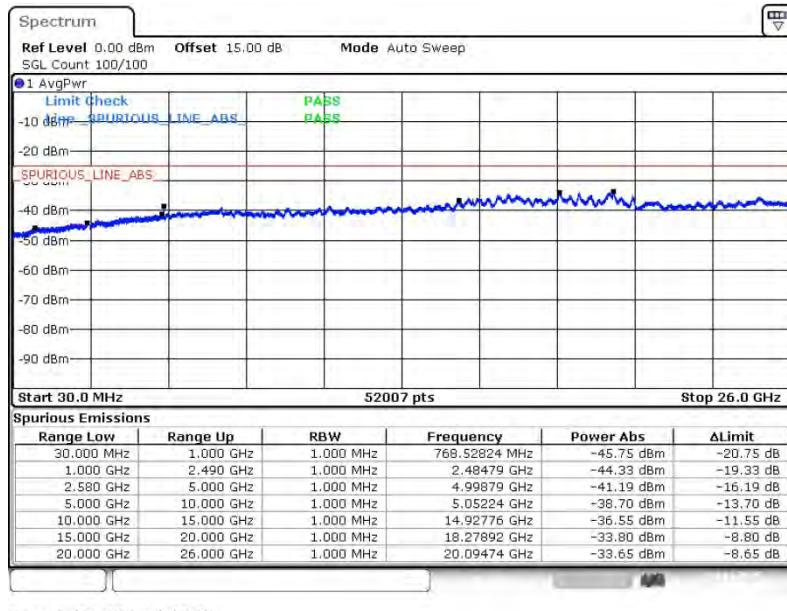
## 16QAM (RB Size 1, RB Offset 49)



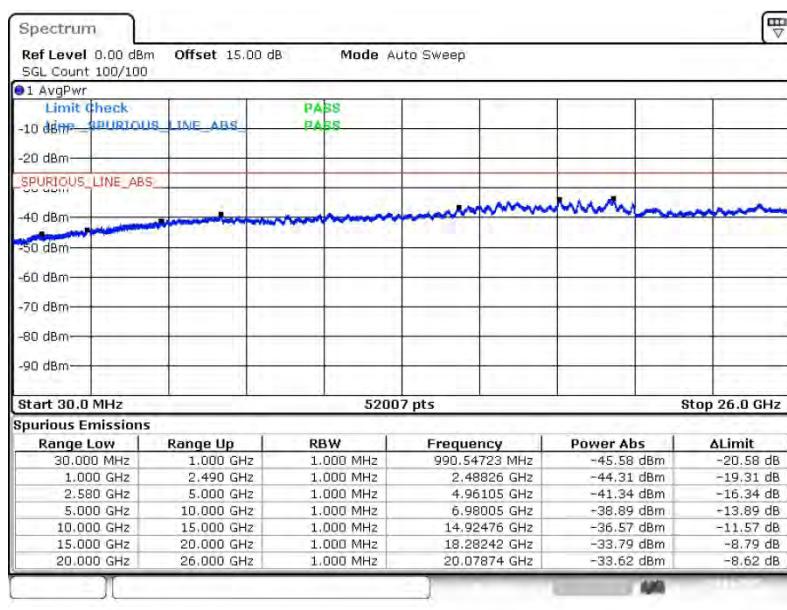


Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	20MHz		

## QPSK (RB Size 1, RB Offset 49)

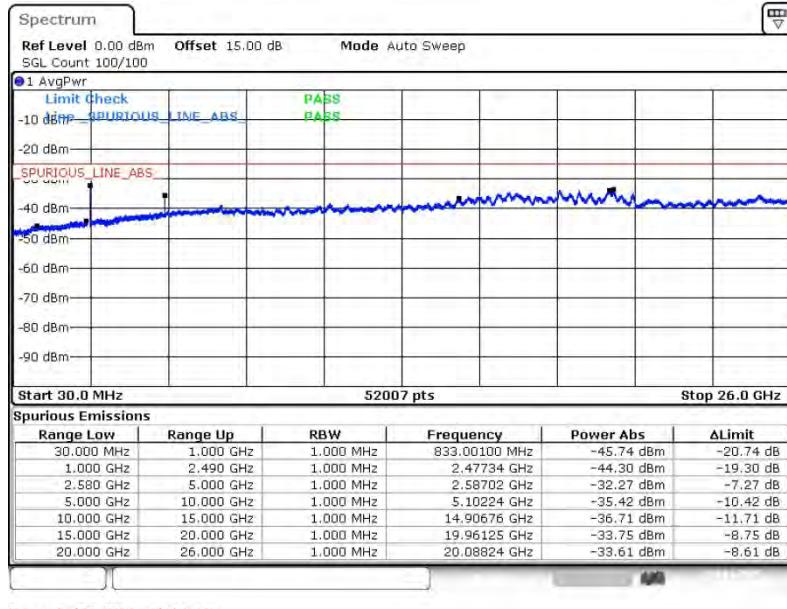
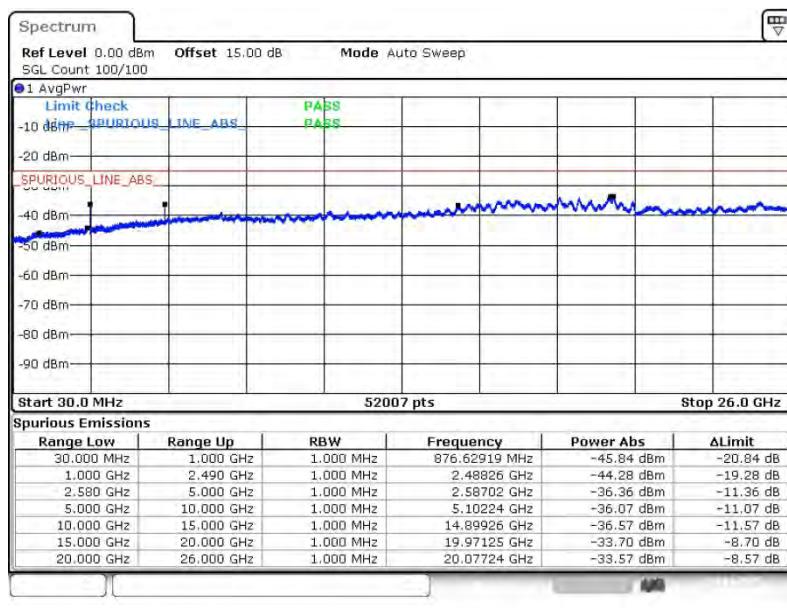


## 16QAM (RB Size 1, RB Offset 49)



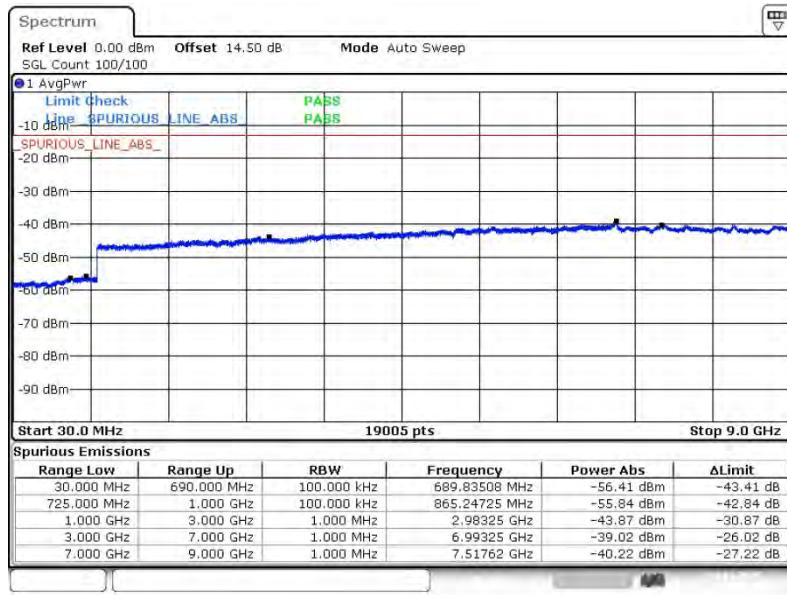


Band :	LTE Band 7	Channel :	CH21350 (High)
Band Width :	20MHz		

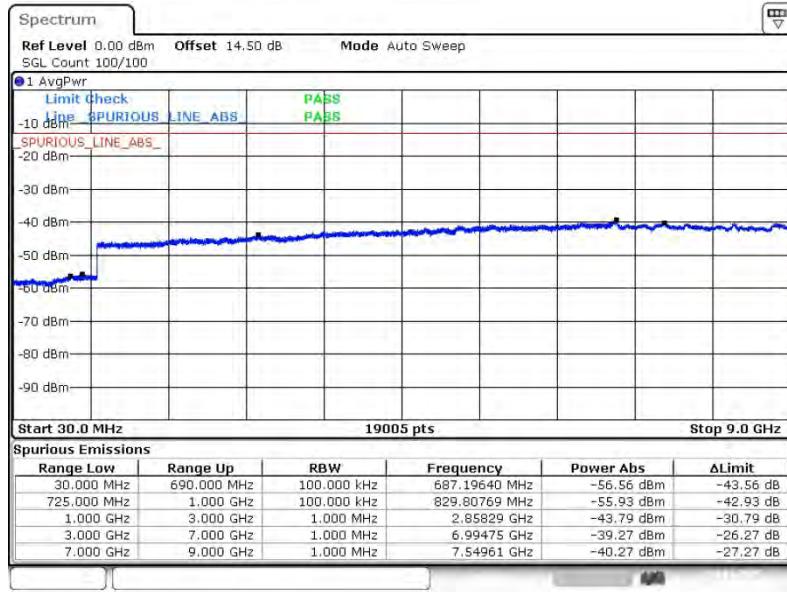
**QPSK (RB Size 1, RB Offset 49)****16QAM (RB Size 1, RB Offset 49)**



Band :	LTE Band 17	Channel :	CH23755 (Low)
Band Width :	5MHz		

**QPSK (RB Size 1, RB Offset 12)**

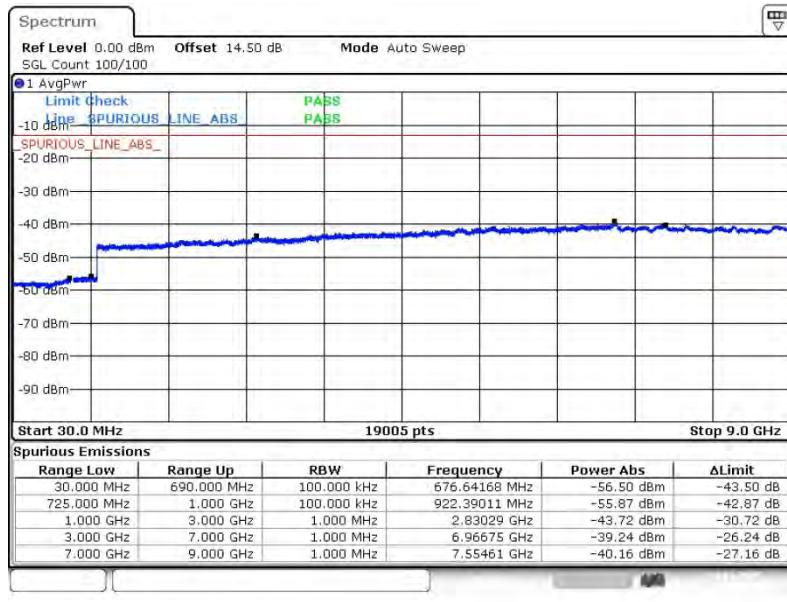
Date: 4.JAN.2015 16:53:49

**16QAM (RB Size 1, RB Offset 12)**

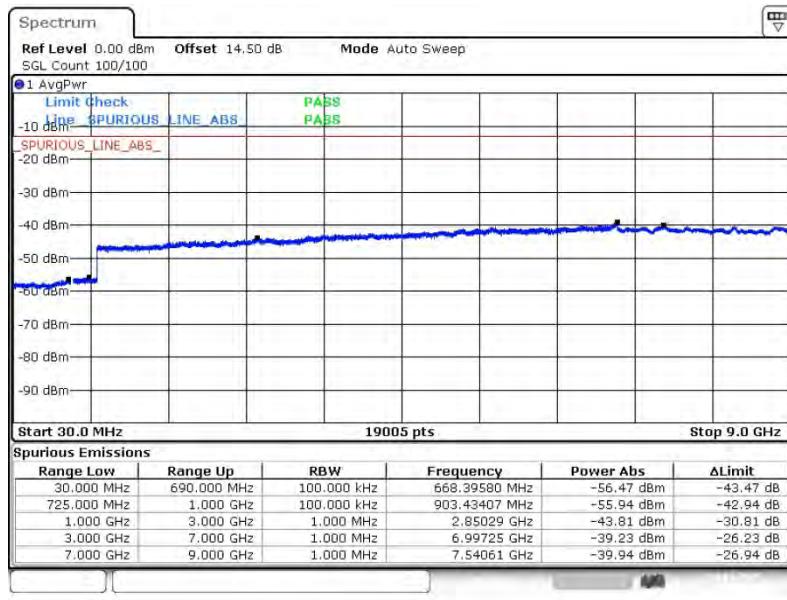
Date: 4.JAN.2015 16:55:09



Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	5MHz		

**QPSK (RB Size 1, RB Offset 24)**

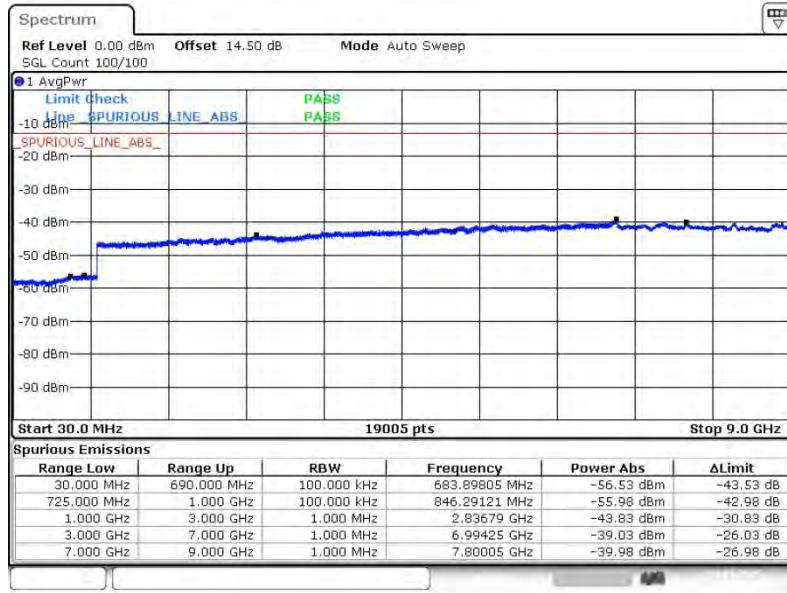
Date: 4.JAN.2015 16:57:14

**16QAM (RB Size 1, RB Offset 24)**

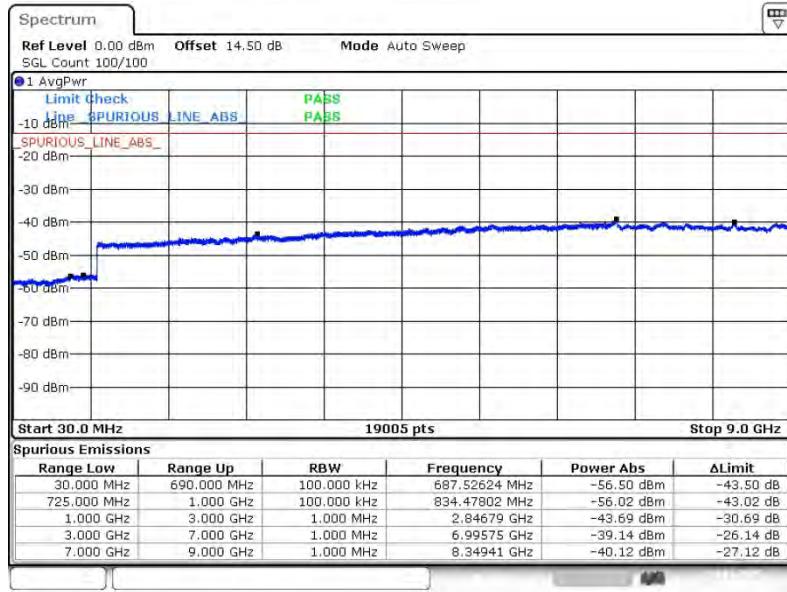
Date: 4.JAN.2015 16:58:33



Band :	LTE Band 17	Channel :	CH23825 (High)
Band Width :	5MHz		

**QPSK (RB Size 1, RB Offset 12)**

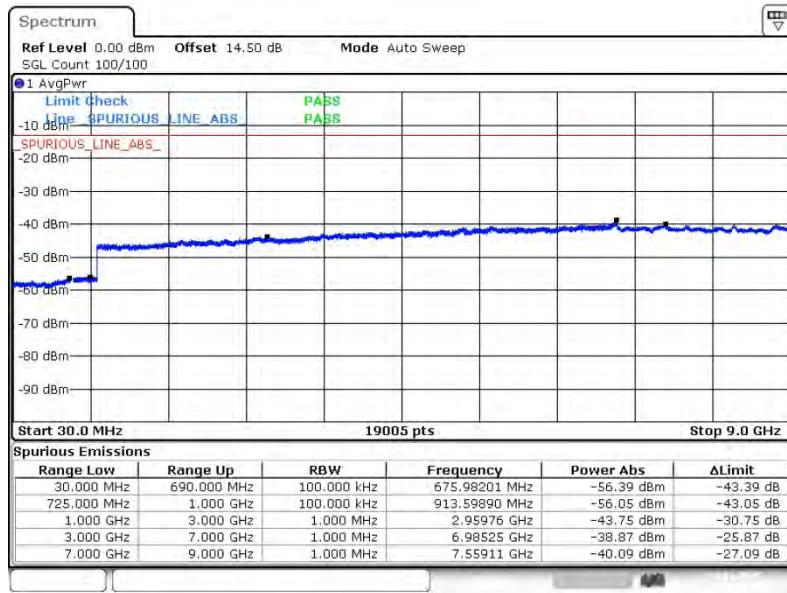
Date: 4.JAN.2015 17:06:41

**16QAM (RB Size 1, RB Offset 12)**

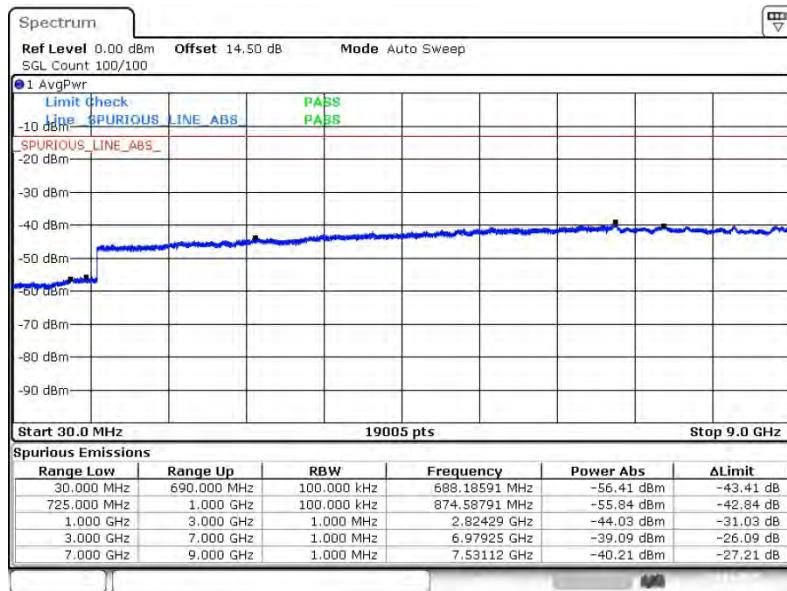
Date: 4.JAN.2015 17:08:01



Band :	LTE Band 17	Channel :	CH23780 (Low)
Band Width :	10MHz		

**QPSK (RB Size 1, RB Offset 49)**

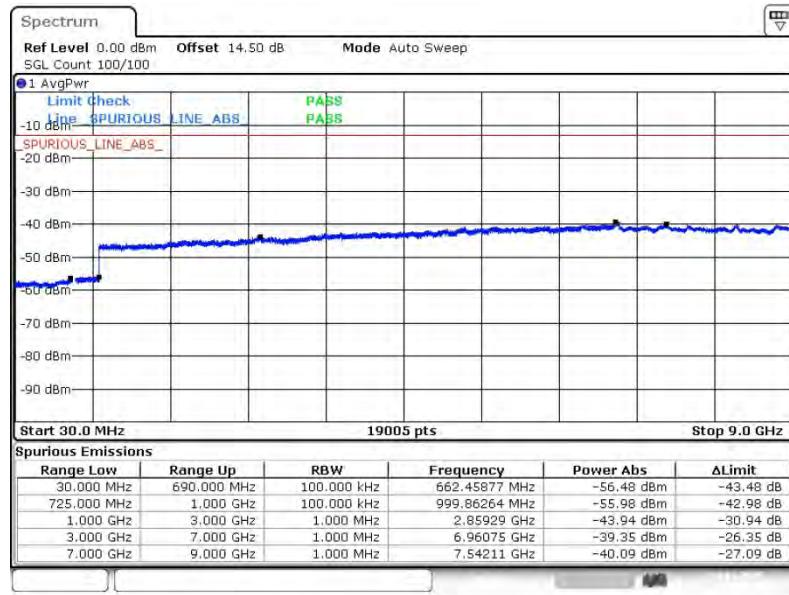
Date: 4.JAN.2015 17:14:40

**16QAM (RB Size 1, RB Offset 49)**

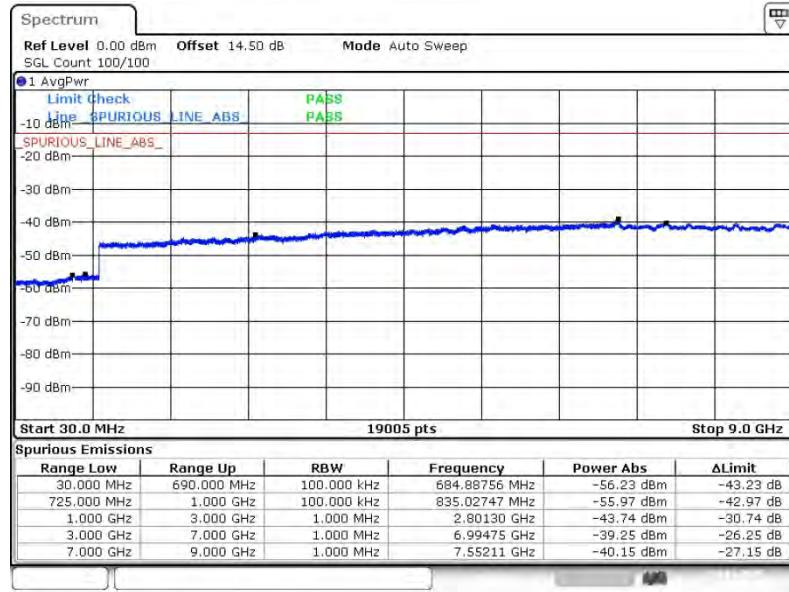
Date: 4.JAN.2015 17:16:00



Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	10MHz		

**QPSK (RB Size 1, RB Offset 49)**

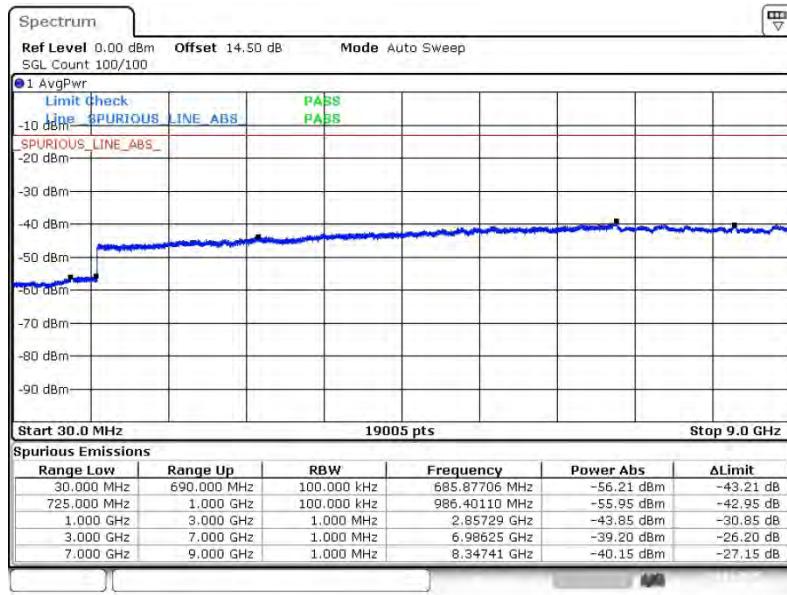
Date: 4.JAN.2015 17:18:05

**16QAM (RB Size 1, RB Offset 49)**

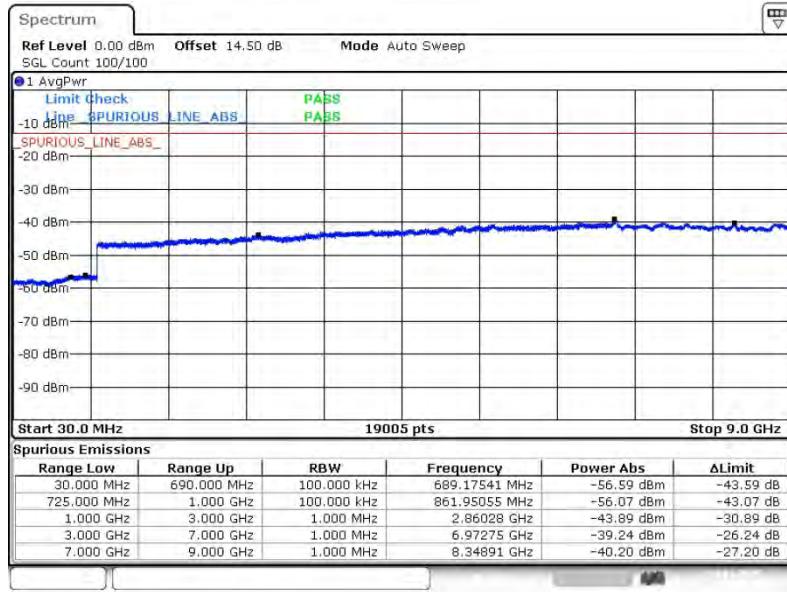
Date: 4.JAN.2015 17:19:24



Band :	LTE Band 17	Channel :	CH23800 (High)
Band Width :	10MHz		

**QPSK (RB Size 1, RB Offset 49)**

Date: 4.JAN.2015 17:26:05

**16QAM (RB Size 1, RB Offset 49)**

Date: 4.JAN.2015 17:27:25



## 3.7 Radiated Spurious Emission Measurement

### 3.7.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log(P)$  dB.

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

### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.7.3 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter 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)

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

For Band 7:

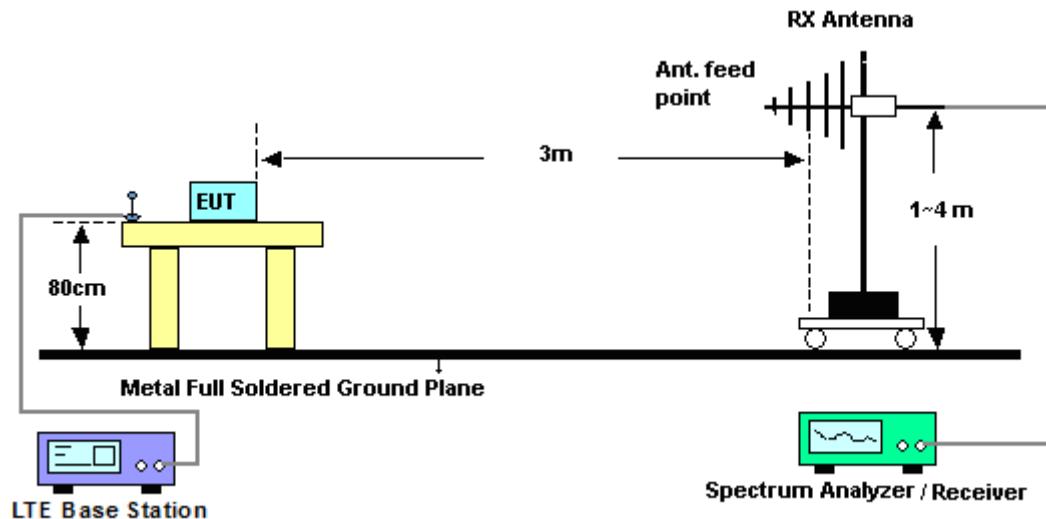
The limit line is derived from  $55 + 10\log(P)$  dB below the transmitter power P(Watts)

$$\begin{aligned} &= P(W) - [55 + 10\log(P)] \text{ (dB)} \\ &= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ &= -25 \text{ dBm}. \end{aligned}$$

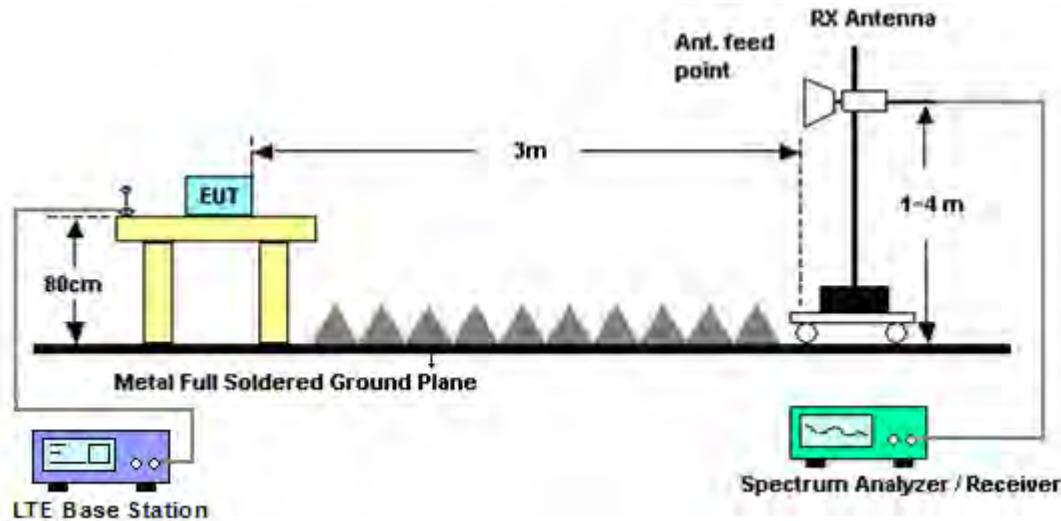
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15

### 3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### 3.7.5 Test Result of Field Strength of Spurious Radiated

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18607 (Low)			<b>Frequency :</b>		1850.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.32	-43.04	-13	-30.04	-71.68	-54.77	0.87	12.60	H	Pass
5550.48	-37.08	-13	-24.08	-68.31	-49.11	1.07	13.10	H	Pass
7400.64	-43.83	-13	-30.83	-75.49	-53.26	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18607 (Low)			<b>Frequency :</b>		1850.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.32	-41.06	-13	-28.06	-70	-52.79	0.87	12.6	V	Pass
5550.48	-41.36	-13	-28.36	-72.49	-53.39	1.07	13.1	V	Pass
7400.64	-44.87	-13	-31.87	-76.76	-54.30	1.87	11.3	V	Pass



Band :	LTE Band 2			Temperature :	23~25°C				
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0			Relative Humidity :	50~52%				
Channel :	18900 (Middle)			Frequency :	1880				
Test Engineer :	Leo Liao			Polarization :	Horizontal				
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3758.92	-34.02	-13	-21.02	-67.37	-45.75	0.87	12.60	H	Pass
5638.38	-32.77	-13	-19.77	-65.54	-44.80	1.07	13.10	H	Pass
7517.84	-44.40	-13	-31.40	-76.06	-53.83	1.87	11.30	H	Pass

Band :	LTE Band 2			Temperature :	23~25°C				
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0			Relative Humidity :	50~52%				
Channel :	18900 (Middle)			Frequency :	1880				
Test Engineer :	Leo Liao			Polarization :	Vertical				
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3758.92	-39.08	-13	-26.08	-69.18	-50.81	0.87	12.6	V	Pass
5638.38	-40.85	-13	-27.85	-71.98	-52.88	1.07	13.1	V	Pass
7517.84	-44.54	-13	-31.54	-76.43	-53.97	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19193 (High)			<b>Frequency :</b>		1909.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3760	-34.65	-13	-21.65	-67.68	-46.38	0.87	12.60	H	Pass
5640	-33.90	-13	-20.90	-66.25	-45.93	1.07	13.10	H	Pass
7520	-45.04	-13	-32.04	-76.70	-54.47	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19193 (High)			<b>Frequency :</b>		1909.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3760	-36.14	-13	-23.14	-67.16	-47.87	0.87	12.6	V	Pass
5640	-37.88	-13	-24.88	-70.03	-49.91	1.07	13.1	V	Pass
7520	-44.54	-13	-31.54	-76.43	-53.97	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18615 (Low)			<b>Frequency :</b>		1851.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.48	-42.65	-13	-29.65	-71.29	-54.38	0.87	12.60	H	Pass
5550.72	-36.64	-13	-23.64	-68.07	-48.67	1.07	13.10	H	Pass
7400.96	-44.72	-13	-31.72	-76.38	-54.15	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18615 (Low)			<b>Frequency :</b>		1851.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.48	-44.14	-13	-31.14	-72.59	-55.87	0.87	12.6	V	Pass
5550.72	-42.64	-13	-29.64	-73.77	-54.67	1.07	13.1	V	Pass
7400.96	-44.01	-13	-31.01	-75.9	-53.44	1.87	11.3	V	Pass



Band :	LTE Band 2			Temperature :		23~25°C			
Test Mode :	3MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	18900 (Middle)			Frequency :		1880			
Test Engineer :	Leo Liao			Polarization :		Horizontal			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3758.92	-31.17	-13	-18.17	-65.77	-42.90	0.87	12.60	H	Pass
5638.38	-33.77	-13	-20.77	-66.17	-45.80	1.07	13.10	H	Pass
7517.84	-44.72	-13	-31.72	-76.38	-54.15	1.87	11.30	H	Pass

Band :	LTE Band 2			Temperature :		23~25°C			
Test Mode :	3MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	18900 (Middle)			Frequency :		1880			
Test Engineer :	Leo Liao			Polarization :		Vertical			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3758.92	-33.85	-13	-20.85	-65.61	-45.58	0.87	12.6	V	Pass
5638.38	-41.13	-13	-28.13	-72.26	-53.16	1.07	13.1	V	Pass
7517.84	-44.79	-13	-31.79	-76.68	-54.22	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19185 (High)			<b>Frequency :</b>		1908.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3814.48	-29.57	-13	-16.57	-64.63	-41.30	0.87	12.60	H	Pass
5721.72	-35.77	-13	-22.77	-67.56	-47.80	1.07	13.10	H	Pass
7628.96	-44.76	-13	-31.76	-76.42	-54.19	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19185 (High)			<b>Frequency :</b>		1908.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3814.48	-33.20	-13	-20.20	-65.26	-44.93	0.87	12.6	V	Pass
5721.72	-42.22	-13	-29.22	-73.35	-54.25	1.07	13.1	V	Pass
7628.96	-43.60	-13	-30.60	-75.49	-53.03	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18625 (Low)			<b>Frequency :</b>		1852.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.68	-42.19	-13	-29.19	-70.83	-53.92	0.87	12.60	H	Pass
5551.02	-37.66	-13	-24.66	-68.65	-49.69	1.07	13.10	H	Pass
7401.36	-44.61	-13	-31.61	-76.27	-54.04	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18625 (Low)			<b>Frequency :</b>		1852.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3700.68	-38.30	-13	-25.30	-68.82	-50.03	0.87	12.6	V	Pass
5551.02	-40.07	-13	-27.07	-71.2	-52.10	1.07	13.1	V	Pass
7401.36	-44.65	-13	-31.65	-76.54	-54.08	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3755.68	-32.12	-13	-19.12	-66.41	-43.85	0.87	12.60	H	Pass
5633.52	-35.68	-13	-22.68	-67.49	-47.71	1.07	13.10	H	Pass
7511.36	-44.73	-13	-31.73	-76.39	-54.16	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3755.68	-30.41	-13	-17.41	-63.63	-42.14	0.87	12.6	V	Pass
5633.52	-40.45	-13	-27.45	-71.58	-52.48	1.07	13.1	V	Pass
7511.36	-44.39	-13	-31.39	-76.28	-53.82	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19175 (High)			<b>Frequency :</b>		1907.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3814.48	-29.69	-13	-16.69	-64.76	-41.42	0.87	12.60	H	Pass
5721.72	-34.02	-13	-21.02	-69.57	-46.05	1.07	13.10	H	Pass
7628.96	-44.30	-13	-31.30	-75.96	-53.73	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19175 (High)			<b>Frequency :</b>		1907.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3814.48	-34.40	-13	-21.40	-65.9	-46.13	0.87	12.6	V	Pass
5721.72	-42.76	-13	-29.76	-73.89	-54.79	1.07	13.1	V	Pass
7628.96	-44.51	-13	-31.51	-76.4	-53.94	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18650 (Low)			<b>Frequency :</b>		1855			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3701.18	-38.60	-13	-25.60	-69.43	-50.33	0.87	12.60	H	Pass
5551.77	-38.69	-13	-25.69	-69.33	-50.72	1.07	13.10	H	Pass
7402.36	-44.84	-13	-31.84	-76.50	-54.27	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18650 (Low)			<b>Frequency :</b>		1855			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3701.18	-38.06	-13	-25.06	-68.71	-49.79	0.87	12.6	V	Pass
5551.77	-40.38	-13	-27.38	-71.51	-52.41	1.07	13.1	V	Pass
7402.36	-44.92	-13	-31.92	-76.81	-54.35	1.87	11.3	V	Pass



<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3751.18	-32.94	-13	-19.94	-66.88	-44.67	0.87	12.60	H	Pass
5626.77	-34.92	-13	-21.92	-66.91	-46.95	1.07	13.10	H	Pass
7502.36	-44.86	-13	-31.86	-76.52	-54.29	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3751.18	-30.99	-13	-17.99	-64.21	-42.72	0.87	12.6	V	Pass
5626.77	-40.89	-13	-27.89	-72.02	-52.92	1.07	13.1	V	Pass
7502.36	-44.66	-13	-31.66	-76.55	-54.09	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19150 (High)			<b>Frequency :</b>		1905			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3801.18	-30.81	-13	-17.81	-65.55	-42.54	0.87	12.60	H	Pass
5701.77	-37.76	-13	-24.76	-68.71	-49.79	1.07	13.10	H	Pass
7602.36	-44.83	-13	-31.83	-76.49	-54.26	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19150 (High)			<b>Frequency :</b>		1905			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3801.18	-34.63	-13	-21.63	-66.02	-46.36	0.87	12.6	V	Pass
5701.77	-40.94	-13	-27.94	-72.07	-52.97	1.07	13.1	V	Pass
7602.36	-44.68	-13	-31.68	-76.57	-54.11	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18675 (Low)			<b>Frequency :</b>		1857.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3701.68	-40.83	-13	-27.83	-70.17	-52.56	0.87	12.60	H	Pass
5552.52	-37.00	-13	-24.00	-68.26	-49.03	1.07	13.10	H	Pass
7403.36	-45.26	-13	-32.26	-76.92	-54.69	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18675 (Low)			<b>Frequency :</b>		1857.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3701.68	-37.33	-13	-24.33	-68.24	-49.06	0.87	12.6	V	Pass
5552.52	-41.04	-13	-28.04	-72.17	-53.07	1.07	13.1	V	Pass
7403.36	-44.70	-13	-31.70	-76.59	-54.13	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3746.68	-28.02	-13	-15.02	-63.56	-39.75	0.87	12.60	H	Pass
5620.02	-38.69	-13	-25.69	-69.33	-50.72	1.07	13.10	H	Pass
7493.36	-44.68	-13	-31.68	-76.34	-54.11	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3746.68	-32.33	-13	-19.33	-64.83	-44.06	0.87	12.6	V	Pass
5620.02	-43.06	-13	-30.06	-74.19	-55.09	1.07	13.1	V	Pass
7493.36	-44.94	-13	-31.94	-76.83	-54.37	1.87	11.3	V	Pass



Band :	LTE Band 2			Temperature :		23~25°C			
Test Mode :	15MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	19125 (High)			Frequency :		1902.5			
Test Engineer :	Leo Liao			Polarization :		Horizontal			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3791.68	-41.42	-13	-28.42	-70.41	-53.15	0.87	12.60	H	Pass
5687.52	-35.42	-13	-22.42	-67.29	-47.45	1.07	13.10	H	Pass
7583.36	-45.28	-13	-32.28	-76.94	-54.71	1.87	11.30	H	Pass

Band :	LTE Band 2			Temperature :		23~25°C			
Test Mode :	15MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	19125 (High)			Frequency :		1902.5			
Test Engineer :	Leo Liao			Polarization :		Vertical			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3791.68	-42.06	-13	-29.06	-70.51	-53.79	0.87	12.6	V	Pass
5687.52	-37.87	-13	-24.87	-70.01	-49.90	1.07	13.1	V	Pass
7583.36	-44.60	-13	-31.60	-76.49	-54.03	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18700 (Low)			<b>Frequency :</b>		1860			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3702.18	-41.70	-13	-28.70	-70.52	-53.43	0.87	12.60	H	Pass
5553.27	-34.03	-13	-21.03	-66.33	-46.06	1.07	13.10	H	Pass
7404.36	-43.36	-13	-30.36	-75.02	-52.79	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18700 (Low)			<b>Frequency :</b>		1860			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3702.18	-40.61	-13	-27.61	-69.8	-52.34	0.87	12.6	V	Pass
5553.27	-41.03	-13	-28.03	-72.16	-53.06	1.07	13.1	V	Pass
7404.36	-43.94	-13	-30.94	-75.83	-53.37	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3742.18	-31.18	-13	-18.18	-65.78	-42.91	0.87	12.60	H	Pass
5613.27	-39.71	-13	-26.71	-70.10	-51.74	1.07	13.10	H	Pass
7484.36	-44.98	-13	-31.98	-76.64	-54.41	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	18900 (Middle)			<b>Frequency :</b>		1880			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3742.18	-31.22	-13	-18.22	-64.32	-42.95	0.87	12.6	V	Pass
5613.27	-43.13	-13	-30.13	-74.26	-55.16	1.07	13.1	V	Pass
7484.36	-44.72	-13	-31.72	-76.61	-54.15	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19100 (High)			<b>Frequency :</b>		1900			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3782.18	-43.27	-13	-30.27	-71.91	-55.00	0.87	12.60	H	Pass
5673.27	-35.49	-13	-22.49	-67.34	-47.52	1.07	13.10	H	Pass
7564.36	-45.25	-13	-32.25	-76.91	-54.68	1.87	11.30	H	Pass

<b>Band :</b>	LTE Band 2			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19100 (High)			<b>Frequency :</b>		1900			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3782.18	-42.39	-13	-29.39	-70.84	-54.12	0.87	12.6	V	Pass
5673.27	-41.10	-13	-28.10	-72.23	-53.13	1.07	13.1	V	Pass
7564.36	-44.58	-13	-31.58	-76.47	-54.01	1.87	11.3	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19957 (Low)			<b>Frequency :</b>		1710.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.32	-44.25	-13	-31.25	-70.88	-56.04	0.81	12.60	H	Pass
5130.48	-43.26	-13	-30.26	-72.78	-55.01	0.95	12.70	H	Pass
6840.64	-45.55	-13	-32.55	-75.95	-56.12	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19957 (Low)			<b>Frequency :</b>		1710.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.32	-48.88	-13	-35.88	-71.16	-60.67	0.81	12.6	V	Pass
5130.48	-49.40	-13	-36.40	-73.93	-61.15	0.95	12.7	V	Pass
6840.64	-43.60	-13	-30.60	-75.41	-54.17	1.13	11.7	V	Pass



Band :	LTE Band 4				Temperature :	23~25°C			
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0				Relative Humidity :	50~52%			
Channel :	20175 (Middle)				Frequency :	1732.5			
Test Engineer :	Leo Liao				Polarization :	Horizontal			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3463.92	-44.83	-13	-31.83	-71.46	-56.62	0.81	12.60	H	Pass
5195.88	-43.49	-13	-30.49	-73.01	-55.24	0.95	12.70	H	Pass
6927.84	-45.09	-13	-32.09	-75.49	-55.66	1.13	11.70	H	Pass

Band :	LTE Band 4				Temperature :	23~25°C			
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0				Relative Humidity :	50~52%			
Channel :	20175 (Middle)				Frequency :	1732.5			
Test Engineer :	Leo Liao				Polarization :	Vertical			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3463.92	-49.14	-13	-36.14	-71.42	-60.93	0.81	12.6	V	Pass
5195.88	-49.36	-13	-36.36	-73.89	-61.11	0.95	12.7	V	Pass
6927.84	-42.34	-13	-29.34	-74.15	-52.91	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20393 (High)			<b>Frequency :</b>		1754.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3507.52	-44.34	-13	-31.34	-70.97	-56.13	0.81	12.60	H	Pass
5261.28	-44.03	-13	-31.03	-73.55	-55.78	0.95	12.70	H	Pass
7015.04	-45.11	-13	-32.11	-75.51	-55.68	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20393 (High)			<b>Frequency :</b>		1754.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3507.52	-48.89	-13	-35.89	-71.17	-60.68	0.81	12.6	V	Pass
5261.28	-48.17	-13	-35.17	-72.7	-59.92	0.95	12.7	V	Pass
7015.04	-43.36	-13	-30.36	-75.17	-53.93	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19965 (Low)			<b>Frequency :</b>		1711.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.48	-44.73	-13	-31.73	-71.36	-56.52	0.81	12.60	H	Pass
5130.72	-44.49	-13	-31.49	-74.01	-56.24	0.95	12.70	H	Pass
6840.96	-43.65	-13	-30.65	-74.05	-54.22	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19965 (Low)			<b>Frequency :</b>		1711.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.48	-47.50	-13	-34.50	-69.78	-59.29	0.81	12.6	V	Pass
5130.72	-49.07	-13	-36.07	-73.6	-60.82	0.95	12.7	V	Pass
6840.96	-43.63	-13	-30.63	-75.44	-54.20	1.13	11.7	V	Pass



<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3462.48	-44.72	-13	-31.72	-71.35	-56.51	0.81	12.60	H	Pass
5193.72	-44.48	-13	-31.48	-74.00	-56.23	0.95	12.70	H	Pass
6924.96	-44.72	-13	-31.72	-75.12	-55.29	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3462.48	-49.01	-13	-36.01	-71.29	-60.80	0.81	12.6	V	Pass
5193.72	-49.03	-13	-36.03	-73.56	-60.78	0.95	12.7	V	Pass
6924.96	-44.16	-13	-31.16	-75.97	-54.73	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20385 (High)			<b>Frequency :</b>		1753.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3504.48	-44.93	-13	-31.93	-71.56	-56.72	0.81	12.60	H	Pass
5256.72	-44.17	-13	-31.17	-73.69	-55.92	0.95	12.70	H	Pass
7008.96	-45.98	-13	-32.98	-76.38	-56.55	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20385 (High)			<b>Frequency :</b>		1753.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3504.48	-49.54	-13	-36.54	-71.82	-61.33	0.81	12.6	V	Pass
5256.72	-49.16	-13	-36.16	-73.69	-60.91	0.95	12.7	V	Pass
7008.96	-44.23	-13	-31.23	-76.04	-54.80	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19975 (Low)			<b>Frequency :</b>		1712.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.68	-44.39	-13	-31.39	-71.02	-56.18	0.81	12.60	H	Pass
5131.02	-43.41	-13	-30.41	-72.93	-55.16	0.95	12.70	H	Pass
6841.36	-44.04	-13	-31.04	-74.44	-54.61	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	19975 (Low)			<b>Frequency :</b>		1712.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3420.68	-48.81	-13	-35.81	-71.09	-60.60	0.81	12.6	V	Pass
5131.02	-48.04	-13	-35.04	-72.57	-59.79	0.95	12.7	V	Pass
6841.36	-44.00	-13	-31.00	-75.81	-54.57	1.13	11.7	V	Pass



<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3460.68	-45.15	-13	-32.15	-71.78	-56.94	0.81	12.60	H	Pass
5191.02	-44.39	-13	-31.39	-73.91	-56.14	0.95	12.70	H	Pass
6921.36	-44.84	-13	-31.84	-75.24	-55.41	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3460.68	-48.52	-13	-35.52	-70.8	-60.31	0.81	12.6	V	Pass
5191.02	-49.34	-13	-36.34	-73.87	-61.09	0.95	12.7	V	Pass
6921.36	-44.15	-13	-31.15	-75.96	-54.72	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20375 (High)			<b>Frequency :</b>		1752.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3500.68	-45.22	-13	-32.22	-71.85	-57.01	0.81	12.60	H	Pass
5251.02	-44.20	-13	-31.20	-73.72	-55.95	0.95	12.70	H	Pass
7001.36	-44.69	-13	-31.69	-75.09	-55.26	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20375 (High)			<b>Frequency :</b>		1752.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3500.68	-49.43	-13	-36.43	-71.71	-61.22	0.81	12.6	V	Pass
5251.02	-48.92	-13	-35.92	-73.45	-60.67	0.95	12.7	V	Pass
7001.36	-44.18	-13	-31.18	-75.99	-54.75	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20000 (Low)			<b>Frequency :</b>		1715			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3421.18	-44.61	-13	-31.61	-71.24	-56.40	0.81	12.60	H	Pass
5131.77	-43.76	-13	-30.76	-73.28	-55.51	0.95	12.70	H	Pass
6842.36	-45.01	-13	-32.01	-75.41	-55.58	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20000 (Low)			<b>Frequency :</b>		1715			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3421.18	-49.19	-13	-36.19	-71.47	-60.98	0.81	12.6	V	Pass
5131.77	-49.40	-13	-36.40	-73.93	-61.15	0.95	12.7	V	Pass
6842.36	-43.46	-13	-30.46	-75.27	-54.03	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3456.18	-44.59	-13	-31.59	-71.22	-56.38	0.81	12.60	H	Pass
5184.27	-44.04	-13	-31.04	-73.56	-55.79	0.95	12.70	H	Pass
6912.36	-44.90	-13	-31.90	-75.30	-55.47	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3456.18	-49.30	-13	-36.30	-71.58	-61.09	0.81	12.6	V	Pass
5184.27	-48.87	-13	-35.87	-73.4	-60.62	0.95	12.7	V	Pass
6912.36	-43.82	-13	-30.82	-75.63	-54.39	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20350 (High)			<b>Frequency :</b>		1750			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3491.18	-44.21	-13	-31.21	-70.84	-56.00	0.81	12.60	H	Pass
5236.77	-43.86	-13	-30.86	-73.38	-55.61	0.95	12.70	H	Pass
6982.36	-45.89	-13	-32.89	-76.29	-56.46	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20350 (High)			<b>Frequency :</b>		1750			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3491.18	-49.18	-13	-36.18	-71.46	-60.97	0.81	12.6	V	Pass
5236.77	-49.04	-13	-36.04	-73.57	-60.79	0.95	12.7	V	Pass
6982.36	-44.10	-13	-31.10	-75.91	-54.67	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20025 (Low)			<b>Frequency :</b>		1717.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3421.68	-44.67	-13	-31.67	-71.30	-56.46	0.81	12.60	H	Pass
5132.52	-44.18	-13	-31.18	-73.70	-55.93	0.95	12.70	H	Pass
6843.36	-44.17	-13	-31.17	-74.57	-54.74	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20025 (Low)			<b>Frequency :</b>		1717.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3421.68	-49.42	-13	-36.42	-71.7	-61.21	0.81	12.6	V	Pass
5132.52	-48.89	-13	-35.89	-73.42	-60.64	0.95	12.7	V	Pass
6843.36	-43.45	-13	-30.45	-75.26	-54.02	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3451.68	-44.81	-13	-31.81	-71.44	-56.60	0.81	12.60	H	Pass
5177.52	-44.36	-13	-31.36	-73.88	-56.11	0.95	12.70	H	Pass
6903.36	-44.94	-13	-31.94	-75.34	-55.51	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3451.68	-49.32	-13	-36.32	-71.6	-61.11	0.81	12.6	V	Pass
5177.52	-49.19	-13	-36.19	-73.72	-60.94	0.95	12.7	V	Pass
6903.36	-43.00	-13	-30.00	-74.81	-53.57	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20325 (High)			<b>Frequency :</b>		1747.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3481.68	-44.73	-13	-31.73	-71.36	-56.52	0.81	12.60	H	Pass
5222.52	-44.04	-13	-31.04	-73.56	-55.79	0.95	12.70	H	Pass
6963.36	-45.30	-13	-32.30	-75.70	-55.87	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20325 (High)			<b>Frequency :</b>		1747.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3481.68	-48.77	-13	-35.77	-71.05	-60.56	0.81	12.6	V	Pass
5222.52	-48.90	-13	-35.90	-73.43	-60.65	0.95	12.7	V	Pass
6963.36	-44.02	-13	-31.02	-75.83	-54.59	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20050 (Low)			<b>Frequency :</b>		1720			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3422.18	-45.03	-13	-32.03	-71.66	-56.82	0.81	12.60	H	Pass
5133.27	-43.94	-13	-30.94	-73.46	-55.69	0.95	12.70	H	Pass
6844.36	-45.14	-13	-32.14	-75.54	-55.71	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20050 (Low)			<b>Frequency :</b>		1720			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3422.18	-48.60	-13	-35.60	-70.88	-60.39	0.81	12.6	V	Pass
5133.27	-48.76	-13	-35.76	-73.29	-60.51	0.95	12.7	V	Pass
6844.36	-44.01	-13	-31.01	-75.82	-54.58	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3447.18	-44.99	-13	-31.99	-71.62	-56.78	0.81	12.60	H	Pass
5170.77	-43.68	-13	-30.68	-73.20	-55.43	0.95	12.70	H	Pass
6894.36	-44.59	-13	-31.59	-74.99	-55.16	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20175 (Middle)			<b>Frequency :</b>		1732.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3447.18	-48.94	-13	-35.94	-71.22	-60.73	0.81	12.6	V	Pass
5170.77	-48.90	-13	-35.90	-73.43	-60.65	0.95	12.7	V	Pass
6894.36	-43.66	-13	-30.66	-75.47	-54.23	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20300 (High)			<b>Frequency :</b>		1745			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3472.18	-45.03	-13	-32.03	-71.66	-56.82	0.81	12.60	H	Pass
5208.27	-44.22	-13	-31.22	-73.74	-55.97	0.95	12.70	H	Pass
6944.36	-45.52	-13	-32.52	-75.92	-56.09	1.13	11.70	H	Pass

<b>Band :</b>	LTE Band 4			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20300 (High)			<b>Frequency :</b>		1745			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
3472.18	-48.77	-13	-35.77	-71.05	-60.56	0.81	12.6	V	Pass
5208.27	-49.37	-13	-36.37	-73.9	-61.12	0.95	12.7	V	Pass
6944.36	-44.10	-13	-31.10	-75.91	-54.67	1.13	11.7	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20407 (Low)			<b>Frequency :</b>		824.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1649.92	-56.62	-13	-43.62	-69.04	-59.87	0.92	6.32	H	Pass
2474.88	-46.64	-13	-33.64	-69.31	-49.19	1.2	5.90	H	Pass
3299.84	-59.84	-13	-46.84	-71.04	-64.29	1.2	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20407 (Low)			<b>Frequency :</b>		824.7			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1649.92	-58.95	-13	-45.95	-69.08	-62.20	0.92	6.32	V	Pass
2474.88	-50.80	-13	-37.80	-70.34	-53.35	1.20	5.90	V	Pass
3299.84	-60.17	-13	-47.17	-72.60	-64.62	1.20	7.80	V	Pass



<b>Band :</b>	LTE Band 5				<b>Temperature :</b>	23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0				<b>Relative Humidity :</b>	50~52%			
<b>Channel :</b>	20525 (Middle)				<b>Frequency :</b>	836.5			
<b>Test Engineer :</b>	Leo Liao				<b>Polarization :</b>	Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1671.92	-56.11	-13	-43.11	-69.03	-59.08	0.88	6.00	H	Pass
2507.88	-47.31	-13	-34.31	-69.82	-49.92	1.08	5.84	H	Pass
3343.84	-61.49	-13	-48.49	-72.09	-65.86	1.14	7.66	H	Pass

<b>Band :</b>	LTE Band 5				<b>Temperature :</b>	23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0				<b>Relative Humidity :</b>	50~52%			
<b>Channel :</b>	20525 (Middle)				<b>Frequency :</b>	836.5			
<b>Test Engineer :</b>	Leo Liao				<b>Polarization :</b>	Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1671.92	-58.76	-13	-45.76	-69.39	-61.73	0.88	6.00	V	Pass
2507.88	-51.59	-13	-38.59	-70.39	-54.20	1.08	5.84	V	Pass
3343.84	-59.57	-13	-46.57	-71.40	-63.94	1.14	7.66	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20643 (High)			<b>Frequency :</b>		848.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1695.52	-55.07	-13	-42.07	-68.34	-58.06	0.75	5.89	H	Pass
2543.28	-46.53	-13	-33.53	-69.61	-49.24	1.12	5.98	H	Pass
3391.04	-60.99	-13	-47.99	-72.19	-65.39	1.25	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	1.4MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20643 (High)			<b>Frequency :</b>		848.3			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1695.52	-57.70	-13	-44.70	-68.68	-60.69	0.75	5.89	V	Pass
2543.28	-50.36	-13	-37.36	-70.49	-53.07	1.12	5.98	V	Pass
3391.04	-59.77	-13	-46.77	-72.20	-64.17	1.25	7.80	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20415 (Low)			<b>Frequency :</b>		825.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1648.48	-56.35	-13	-43.35	-69.27	-59.60	0.92	6.32	H	Pass
2472.72	-49.12	-13	-36.12	-70.56	-51.67	1.2	5.90	H	Pass
3296.96	-61.00	-13	-48.00	-71.60	-65.45	1.2	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20415 (Low)			<b>Frequency :</b>		825.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1648.48	-57.93	-13	-44.93	-68.56	-61.18	0.92	6.32	V	Pass
2472.72	-50.49	-13	-37.49	-70.17	-53.04	1.20	5.90	V	Pass
3296.96	-59.67	-13	-46.67	-71.50	-64.12	1.20	7.80	V	Pass



<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1670.48	-56.58	-13	-43.58	-69.50	-59.55	0.88	6.00	H	Pass
2505.72	-49.19	-13	-36.19	-70.64	-51.80	1.08	5.84	H	Pass
3340.96	-61.41	-13	-48.41	-72.01	-65.78	1.14	7.66	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1670.48	-57.26	-13	-44.26	-67.89	-60.23	0.88	6.00	V	Pass
2505.72	-51.55	-13	-38.55	-70.65	-54.16	1.08	5.84	V	Pass
3340.96	-59.88	-13	-46.88	-71.71	-64.25	1.14	7.66	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20635 (High)			<b>Frequency :</b>		847.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1692.48	-55.87	-13	-42.87	-69.14	-58.86	0.75	5.89	H	Pass
2538.72	-47.82	-13	-34.82	-70.40	-50.53	1.12	5.98	H	Pass
3384.96	-60.55	-13	-47.55	-71.75	-64.95	1.25	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	3MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20635 (High)			<b>Frequency :</b>		847.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1692.48	-58.03	-13	-45.03	-69.01	-61.02	0.75	5.89	V	Pass
2538.72	-50.38	-13	-37.38	-70.50	-53.09	1.12	5.98	V	Pass
3384.96	-59.30	-13	-46.30	-71.73	-63.70	1.25	7.80	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20425 (Low)			<b>Frequency :</b>		826.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1648.68	-54.97	-13	-41.97	-67.89	-58.22	0.92	6.32	H	Pass
2473.02	-48.93	-13	-35.93	-70.40	-51.48	1.2	5.90	H	Pass
3297.36	-60.95	-13	-47.95	-71.55	-65.40	1.2	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20425 (Low)			<b>Frequency :</b>		826.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1648.68	-58.11	-13	-45.11	-68.74	-61.36	0.92	6.32	V	Pass
2473.02	-49.90	-13	-36.90	-69.84	-52.45	1.20	5.90	V	Pass
3297.36	-59.60	-13	-46.60	-71.43	-64.05	1.20	7.80	V	Pass



<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1668.68	-55.97	-13	-42.97	-68.89	-58.94	0.88	6.00	H	Pass
2503.02	-47.30	-13	-34.30	-69.74	-49.91	1.08	5.84	H	Pass
3337.36	-60.04	-13	-47.04	-70.64	-64.41	1.14	7.66	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1668.68	-58.22	-13	-45.22	-68.85	-61.19	0.88	6.00	V	Pass
2503.02	-49.57	-13	-36.57	-69.63	-52.18	1.08	5.84	V	Pass
3337.36	-59.25	-13	-46.25	-71.08	-63.62	1.14	7.66	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20625 (High)			<b>Frequency :</b>		846..5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1688.68	-56.26	-13	-43.26	-69.53	-59.25	0.75	5.89	H	Pass
2533.02	-47.57	-13	-34.57	-70.27	-50.28	1.12	5.98	H	Pass
3377.36	-60.58	-13	-47.58	-71.78	-64.98	1.25	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20625 (High)			<b>Frequency :</b>		846..5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1688.68	-58.54	-13	-45.54	-69.52	-61.53	0.75	5.89	V	Pass
2533.02	-50.76	-13	-37.76	-70.71	-53.47	1.12	5.98	V	Pass
3377.36	-58.84	-13	-45.84	-71.27	-63.24	1.25	7.80	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20450 (Low)			<b>Frequency :</b>		829			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1649.18	-55.62	-13	-42.62	-68.54	-58.87	0.92	6.32	H	Pass
2473.77	-47.71	-13	-34.71	-69.95	-50.26	1.2	5.90	H	Pass
3298.36	-60.83	-13	-47.83	-71.43	-65.28	1.2	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20450 (Low)			<b>Frequency :</b>		829			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1649.18	-57.51	-13	-44.51	-68.14	-60.76	0.92	6.32	V	Pass
2473.77	-49.30	-13	-36.30	-69.46	-51.85	1.20	5.90	V	Pass
3298.36	-59.33	-13	-46.33	-71.16	-63.78	1.20	7.80	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1664.18	-57.14	-13	-44.14	-70.06	-60.11	0.88	6.00	H	Pass
2496.27	-49.45	-13	-36.45	-70.94	-52.06	1.08	5.84	H	Pass
3328.36	-61.70	-13	-48.70	-72.30	-66.07	1.14	7.66	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20525 (Middle)			<b>Frequency :</b>		836.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1664.18	-60.45	-13	-47.45	-71.08	-63.42	0.88	6.00	V	Pass
2496.27	-52.45	-13	-39.45	-71.28	-55.06	1.08	5.84	V	Pass
3328.36	-59.78	-13	-46.78	-71.61	-64.15	1.14	7.66	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20600 (High)			<b>Frequency :</b>		844			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1679.18	-55.85	-13	-42.85	-69.12	-58.84	0.75	5.89	H	Pass
2518.77	-45.52	-13	-32.52	-68.81	-48.23	1.12	5.98	H	Pass
3358.36	-60.73	-13	-47.73	-71.93	-65.13	1.25	7.80	H	Pass

<b>Band :</b>	LTE Band 5			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20600 (High)			<b>Frequency :</b>		844			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1679.18	-58.07	-13	-45.07	-69.05	-61.06	0.75	5.89	V	Pass
2518.77	-49.92	-13	-36.92	-70.24	-52.63	1.12	5.98	V	Pass
3358.36	-59.66	-13	-46.66	-72.09	-64.06	1.25	7.80	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20775 (Low)			<b>Frequency :</b>		2502.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5000.68	-42.69	-25	-17.69	-74.67	-54.44	0.95	12.70	H	Pass
7501.02	-39.52	-25	-14.52	-76.41	-49.76	1.46	11.70	H	Pass
10001.36	-39.44	-25	-14.44	-77.91	-50.23	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20775 (Low)			<b>Frequency :</b>		2502.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5000.68	-43.00	-25	-18.00	-74.23	-54.75	0.95	12.70	V	Pass
7501.02	-38.94	-25	-13.94	-75.82	-49.18	1.46	11.70	V	Pass
10001.36	-40.79	-25	-15.79	-77.69	-51.58	1.31	12.10	V	Pass



Band :	LTE Band 7			Temperature :	23~25°C				
Test Mode :	5MHz QPSK RB Size 1 Offset 0			Relative Humidity :	50~52%				
Channel :	21100 (Middle)			Frequency :	2535				
Test Engineer :	Leo Liao			Polarization :	Horizontal				
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5065.68	-34.05	-25	-9.05	-68.57	-45.80	0.95	12.70	H	Pass
7598.52	-39.57	-25	-14.57	-76.46	-49.81	1.46	11.70	H	Pass
10131.36	-38.92	-25	-13.92	-77.39	-49.71	1.31	12.10	H	Pass

Band :	LTE Band 7			Temperature :	23~25°C				
Test Mode :	5MHz QPSK RB Size 1 Offset 0			Relative Humidity :	50~52%				
Channel :	21100 (Middle)			Frequency :	2535				
Test Engineer :	Leo Liao			Polarization :	Vertical				
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5065.68	-30.51	-25	-5.51	-66.53	-42.26	0.95	12.70	V	Pass
7598.52	-39.66	-25	-14.66	-76.54	-49.90	1.46	11.70	V	Pass
10131.36	-40.70	-25	-15.70	-77.6	-51.49	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21425 (High)			<b>Frequency :</b>		2567.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5130.68	-36.12	-25	-11.12	-70.23	-47.87	0.95	12.70	H	Pass
7696.02	-39.99	-25	-14.99	-75.88	-49.83	1.46	11.30	H	Pass
10261.36	-39.50	-25	-14.50	-77.97	-50.29	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21425 (High)			<b>Frequency :</b>		2567.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5130.68	-33.10	-25	-8.10	-68.4	-44.85	0.95	12.70	V	Pass
7696.02	-40.24	-25	-15.24	-76.12	-50.08	1.46	11.30	V	Pass
10261.36	-41.43	-25	-16.43	-77.99	-52.22	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20800 (Low)			<b>Frequency :</b>		2505			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5001.18	-37.52	-25	-12.52	-70.84	-49.27	0.95	12.70	H	Pass
7501.77	-39.67	-25	-14.67	-76.56	-49.91	1.46	11.70	H	Pass
10002.36	-38.74	-25	-13.74	-77.21	-49.53	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20800 (Low)			<b>Frequency :</b>		2505			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5001.18	-33.85	-25	-8.85	-68.91	-45.60	0.95	12.70	V	Pass
7501.77	-39.64	-25	-14.64	-76.52	-49.88	1.46	11.70	V	Pass
10002.36	-40.78	-25	-15.78	-77.68	-51.57	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21100 (Middle)			<b>Frequency :</b>		2535			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5061.18	-31.81	-25	-6.81	-67.00	-43.56	0.95	12.70	H	Pass
7591.77	-39.66	-25	-14.66	-76.55	-49.90	1.46	11.70	H	Pass
10122.36	-38.75	-25	-13.75	-77.22	-49.54	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21100 (Middle)			<b>Frequency :</b>		2535			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5061.18	-30.03	-25	-5.03	-66.13	-41.78	0.95	12.70	V	Pass
7591.77	-39.00	-25	-14.00	-75.88	-49.24	1.46	11.70	V	Pass
10122.36	-40.53	-25	-15.53	-77.43	-51.32	1.31	12.10	V	Pass



## FCC RF Test Report

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21400 (High)			<b>Frequency :</b>		2565			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5121.18	-35.06	-25	-10.06	-69.30	-46.81	0.95	12.70	H	Pass
7681.77	-40.77	-25	-15.77	-76.66	-50.61	1.46	11.30	H	Pass
10242.36	-39.36	-25	-14.36	-77.83	-50.15	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21400 (High)			<b>Frequency :</b>		2565			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5121.18	-32.90	-25	-7.90	-68.33	-44.65	0.95	12.70	V	Pass
7681.77	-40.47	-25	-15.47	-76.35	-50.31	1.46	11.30	V	Pass
10242.36	-40.99	-25	-15.99	-77.55	-51.78	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20825 (Low)			<b>Frequency :</b>		2507.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5001.68	-41.45	-25	-16.45	-73.43	-53.20	0.95	12.70	H	Pass
7502.52	-38.69	-25	-13.69	-75.58	-48.93	1.46	11.70	H	Pass
10003.36	-38.71	-25	-13.71	-77.18	-49.50	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20825 (Low)			<b>Frequency :</b>		2507.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5001.68	-39.65	-25	-14.65	-72.86	-51.40	0.95	12.70	V	Pass
7502.52	-39.06	-25	-14.06	-75.94	-49.30	1.46	11.70	V	Pass
10003.36	-41.13	-25	-16.13	-78.03	-51.92	1.31	12.10	V	Pass



Band :	LTE Band 7			Temperature :		23~25°C			
Test Mode :	15MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	21100 (Middle)			Frequency :		2535			
Test Engineer :	Leo Liao			Polarization :		Horizontal			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5056.68	-42.28	-25	-17.28	-74.26	-54.03	0.95	12.70	H	Pass
7585.02	-39.43	-25	-14.43	-76.32	-49.67	1.46	11.70	H	Pass
10131.36	-38.65	-25	-13.65	-77.12	-49.44	1.31	12.10	H	Pass

Band :	LTE Band 7			Temperature :		23~25°C			
Test Mode :	15MHz QPSK RB Size 1 Offset 0			Relative Humidity :		50~52%			
Channel :	21100 (Middle)			Frequency :		2535			
Test Engineer :	Leo Liao			Polarization :		Vertical			
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5056.68	-43.00	-25	-18.00	-73.67	-54.75	0.95	12.70	V	Pass
7585.02	-39.14	-25	-14.14	-76.02	-49.38	1.46	11.70	V	Pass
10131.36	-40.05	-25	-15.05	-76.95	-50.84	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21375 (High)			<b>Frequency :</b>		2562.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5111.68	-41.25	-25	-16.25	-73.23	-53.00	0.95	12.70	H	Pass
7667.52	-39.83	-25	-14.83	-75.72	-49.67	1.46	11.30	H	Pass
10223.36	-77.53	-25	-52.53	-77.53	-88.32	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	15MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21375 (High)			<b>Frequency :</b>		2562.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5111.68	-43.00	-25	-18.00	-73.58	-54.75	0.95	12.70	V	Pass
7667.52	-39.46	-25	-14.46	-75.34	-49.30	1.46	11.30	V	Pass
10223.36	-41.41	-25	-16.41	-77.97	-52.20	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20850 (Low)			<b>Frequency :</b>		2510			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5002.18	-42.87	-25	-17.87	-74.85	-54.62	0.95	12.70	H	Pass
7503.27	-39.01	-25	-14.01	-75.90	-49.25	1.46	11.70	H	Pass
10004.36	-39.75	-25	-14.75	-78.22	-50.54	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	20850 (Low)			<b>Frequency :</b>		2510			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5002.18	-43.00	-25	-18.00	-74.19	-54.75	0.95	12.70	V	Pass
7503.27	-39.76	-25	-14.76	-76.64	-50.00	1.46	11.70	V	Pass
10004.36	-40.75	-25	-15.75	-77.65	-51.54	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21100 (Middle)			<b>Frequency :</b>		2535			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5052.18	-42.29	-25	-17.29	-74.27	-54.04	0.95	12.70	H	Pass
7578.27	-39.70	-25	-14.70	-76.59	-49.94	1.46	11.70	H	Pass
10104.36	-39.54	-25	-14.54	-78.01	-50.33	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21100 (Middle)			<b>Frequency :</b>		2535			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5052.18	-43.00	-25	-18.00	-74.2	-54.75	0.95	12.70	V	Pass
7578.27	-39.56	-25	-14.56	-76.44	-49.80	1.46	11.70	V	Pass
10104.36	-41.11	-25	-16.11	-78.01	-51.90	1.31	12.10	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21350 (High)			<b>Frequency :</b>		2560			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5102.18	-42.00	-25	-17.00	-73.98	-53.75	0.95	12.70	H	Pass
7653.27	-40.80	-25	-15.80	-76.69	-50.64	1.46	11.30	H	Pass
10204.36	-39.31	-25	-14.31	-77.78	-50.10	1.31	12.10	H	Pass

<b>Band :</b>	LTE Band 7			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	20MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	21350 (High)			<b>Frequency :</b>		2560			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
5102.18	-43.00	-25	-18.00	-74.07	-54.75	0.95	12.70	V	Pass
7653.27	-40.66	-25	-15.66	-76.54	-50.50	1.46	11.30	V	Pass
10204.36	-41.58	-25	-16.58	-78.14	-52.37	1.31	12.10	V	Pass



<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23755 (Low)			<b>Frequency :</b>		706.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1408.68	-54.31	-13	-41.31	-68.52	-60.99	0.57	9.40	H	Pass
2113.02	-52.58	-13	-39.58	-72.24	-60.28	0.75	10.60	H	Pass
2817.36	-48.14	-13	-35.14	-72.51	-57.72	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23755 (Low)			<b>Frequency :</b>		706.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1408.68	-54.38	-13	-41.38	-69.02	-61.06	0.57	9.40	V	Pass
2113.02	-48.69	-13	-35.69	-71.39	-56.39	0.75	10.60	V	Pass
2817.36	-44.35	-13	-31.35	-72.85	-53.93	0.87	12.60	V	Pass



<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23790 (Middle)			<b>Frequency :</b>		710			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1415.68	-55.05	-13	-42.05	-69.26	-61.73	0.57	9.40	H	Pass
2123.52	-52.12	-13	-39.12	-71.78	-59.82	0.75	10.60	H	Pass
2831.36	-48.45	-13	-35.45	-72.82	-58.03	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23790 (Middle)			<b>Frequency :</b>		710			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1415.68	-54.42	-13	-41.42	-69.07	-61.10	0.57	9.40	V	Pass
2123.52	-50.62	-13	-37.62	-72.08	-58.32	0.75	10.60	V	Pass
2831.36	-43.51	-13	-30.51	-72.36	-53.09	0.87	12.60	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23825 (High)			<b>Frequency :</b>		713.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1422.68	-55.35	-13	-42.35	-69.56	-62.03	0.57	9.40	H	Pass
2134.02	-50.81	-13	-37.81	-71.31	-58.51	0.75	10.60	H	Pass
2845.36	-48.41	-13	-35.41	-72.78	-57.99	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	5MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23825 (High)			<b>Frequency :</b>		713.5			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1422.68	-55.13	-13	-42.13	-69.91	-61.81	0.57	9.40	V	Pass
2134.02	-51.27	-13	-38.27	-72.41	-58.97	0.75	10.60	V	Pass
2845.36	-43.76	-13	-30.76	-72.58	-53.34	0.87	12.60	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23780 (Low)			<b>Frequency :</b>		709			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1409.18	-55.84	-13	-42.84	-70.05	-62.52	0.57	9.40	H	Pass
2113.77	-52.19	-13	-39.19	-71.85	-59.89	0.75	10.60	H	Pass
2818.36	-48.01	-13	-35.01	-72.38	-57.59	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23780 (Low)			<b>Frequency :</b>		709			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1409.18	-54.74	-13	-41.74	-69.47	-61.42	0.57	9.40	V	Pass
2113.77	-50.88	-13	-37.88	-72.19	-58.58	0.75	10.60	V	Pass
2818.36	-43.66	-13	-30.66	-72.49	-53.24	0.87	12.60	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23790 (Middle)			<b>Frequency :</b>		710			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1411.18	-55.08	-13	-42.08	-69.29	-61.76	0.57	9.40	H	Pass
2116	-52.47	-13	-39.47	-72.13	-60.17	0.75	10.60	H	Pass
2822.36	-48.42	-13	-35.42	-72.79	-58.00	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23790 (Middle)			<b>Frequency :</b>		710			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1411.18	-54.24	-13	-41.24	-68.85	-60.92	0.57	9.40	V	Pass
2116	-51.00	-13	-38.00	-72.24	-58.70	0.75	10.60	V	Pass
2822.36	-43.61	-13	-30.61	-72.45	-53.19	0.87	12.60	V	Pass

**FCC RF Test Report**

Report No. : FG4D0805-02B

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23800 (High)			<b>Frequency :</b>		711			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Horizontal			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1413.18	-54.05	-13	-41.05	-68.26	-60.73	0.57	9.40	H	Pass
2119.77	-51.35	-13	-38.35	-71.49	-59.05	0.75	10.60	H	Pass
2826.36	-47.90	-13	-34.90	-72.32	-57.48	0.87	12.60	H	Pass

<b>Band :</b>	LTE Band 17			<b>Temperature :</b>		23~25°C			
<b>Test Mode :</b>	10MHz QPSK RB Size 1 Offset 0			<b>Relative Humidity :</b>		50~52%			
<b>Channel :</b>	23800 (High)			<b>Frequency :</b>		711			
<b>Test Engineer :</b>	Leo Liao			<b>Polarization :</b>		Vertical			
<b>Remark :</b>	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.								
Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading ( dBm )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain ( dBi )	Polarization ( H/V )	Result
1413.18	-54.92	-13	-41.92	-69.69	-61.60	0.57	9.40	V	Pass
2119.77	-49.90	-13	-36.90	-71.78	-57.60	0.75	10.60	V	Pass
2826.36	-43.76	-13	-30.76	-72.58	-53.34	0.87	12.60	V	Pass



## 3.8 Frequency Stability Measurement

### 3.8.1 Description of Frequency Stability Measurement

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

### 3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

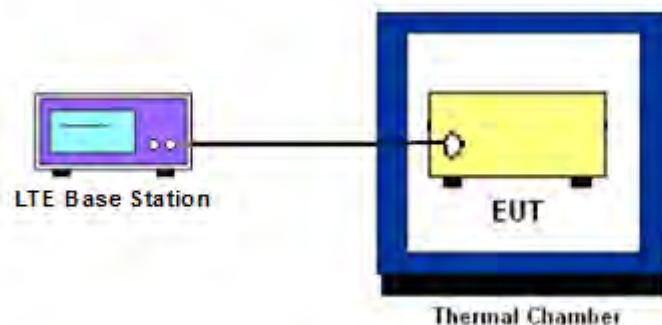
### 3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the LTE base station.
2. With power OFF, the temperature was decreased to  $-30^\circ\text{C}$  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  $10^\circ\text{C}$  step up to  $50^\circ\text{C}$ . 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.

### 3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $25 \pm 5^\circ\text{C}$  and connected with the LTE base station.
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.

### **3.8.5 Test Setup**





### 3.8.6 Test Result of Temperature Variation (FCC)

Band :	LTE Band 2 (QPSK)	Limit (ppm) :	within authorized band
Temperature (°C)	BW 10MHz		Result
	Deviation (ppm)		
50	0.0106		PASS
40	0.0101		
30	0.0011		
20(Ref.)	0.0000		
10	0.0112		
0	0.0011		
-10	0.0122		
-20	0.0005		
-30	0.0011		

**Note:** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Band :	LTE Band 4 (QPSK)	Limit (ppm) :	within authorized band
Temperature (°C)	BW 10MHz		Result
	Deviation (ppm)		
50	0.0012		PASS
40	0.0006		
30	0.0006		
20(Ref.)	0.0000		
10	0.0017		
0	0.0012		
-10	0.0006		
-20	0.0006		
-30	0.0000		

**Note:** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Band :	LTE Band 5 (QPSK)	Limit (ppm) :	2.5
Temperature (°C)	BW 10MHz		Result
	Deviation (ppm)		
50	0.0024		PASS
40	0.0012		
30	0.0012		
20(Ref.)	0.0000		
10	0.0024		
0	0.0012		
-10	0.0012		
-20	0.0012		
-30	0.0036		

Band :	LTE Band 7 (QPSK)	Limit (ppm) :	within authorized band
Temperature (°C)	BW 10MHz		Result
	Deviation (ppm)		
50	0.0122		PASS
40	0.0118		
30	0.0126		
20(Ref.)	0.0000		
10	0.0004		
0	0.0008		
-10	0.0012		
-20	0.0016		
-30	0.0020		

**Note:** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Band :	LTE Band 17 (QPSK)	Limit (ppm) :	within authorized band
Temperature (°C)	BW 10MHz	Deviation (ppm)	Result
50	0.0028		
40	0.0014		
30	0.0014		
20(Ref.)	0.0000		
10	0.0042		
0	0.0014		
-10	0.0028		
-20	0.0014		
-30	0.0028		



### 3.8.7 Test Result of Voltage Variation (FCC)

Band	Bandwidth	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2	10M	4.35	0.0112	(Note 3.)	PASS
		Normal	0.0000		
		3.70	0.0011		
LTE Band 4	10M	4.35	0.0006	(Note 3.)	PASS
		Normal	0.0000		
		3.70	0.0012		
LTE Band 5	10M	4.35	0.0012	2.5	PASS
		Normal	0.0000		
		3.70	0.0012		
LTE Band 7	10M	4.35	0.0008	(Note 3.)	PASS
		Normal	0.0000		
		3.70	0.0114		
LTE Band 17	10M	4.35	0.0028	(Note 3.)	PASS
		Normal	0.0000		
		3.70	0.0014		

**Note:**

1. Normal Voltage = 3.90V.
2. The manufacturer declared that the EUT could work properly between voltage 3.70V ~ 4.35V.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Jan. 04, 2015~Jan. 05, 2015	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40°C~150°C	Feb. 21, 2014	Jan. 04, 2015~Jan. 05, 2015	Feb. 20, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jan. 05, 2015~Jan. 14, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Jan. 05, 2015~Jan. 14, 2015	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Jan. 05, 2015~Jan. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jan. 05, 2015~Jan. 14, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Jan. 05, 2015~Jan. 14, 2015	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jan. 05, 2015~Jan. 14, 2015	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jan. 05, 2015~Jan. 14, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	Jan. 05, 2015~Jan. 14, 2015	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jan. 05, 2015~Jan. 14, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jan. 05, 2015~Jan. 14, 2015	NCR	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Jul. 17, 2014	Jan. 05, 2015~Jan. 23, 2015	Jul. 16, 2015	ERP/EIRP (OTA02-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MHz	N/A	Jan. 05, 2015~Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Jan. 05, 2015~Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Jan. 05, 2015~Jan. 23, 2015	N/A	ERP/EIRP (OTA02-SZ)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{c(y)}$ )	3.9 dB
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