

Global United Technology Services Co., Ltd.

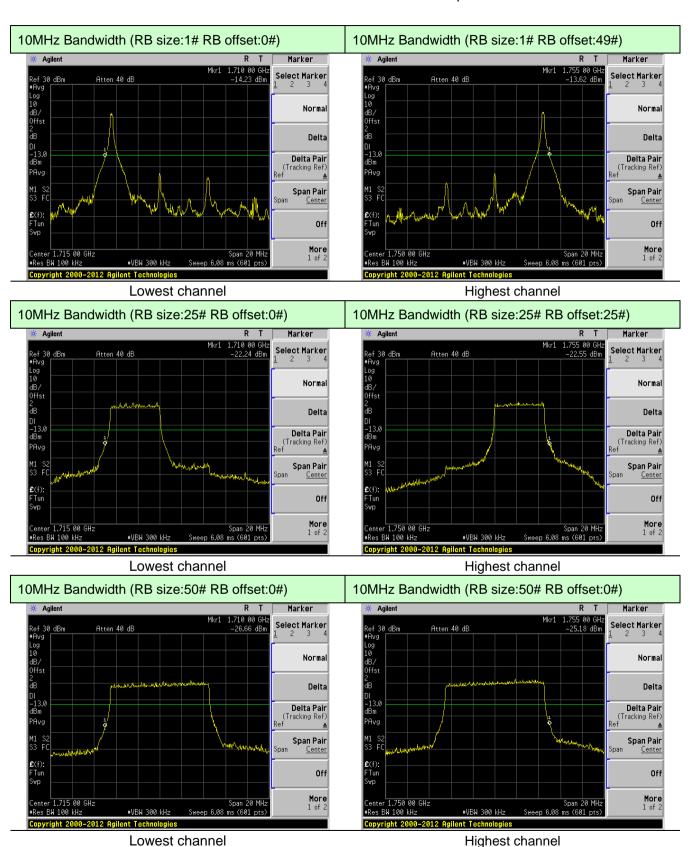
Lowest channel

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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Highest channel

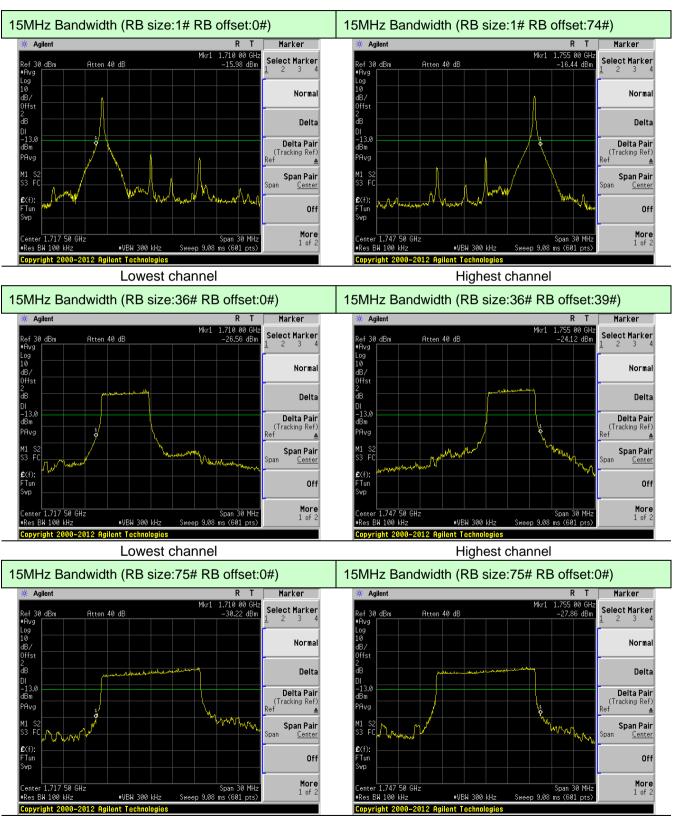




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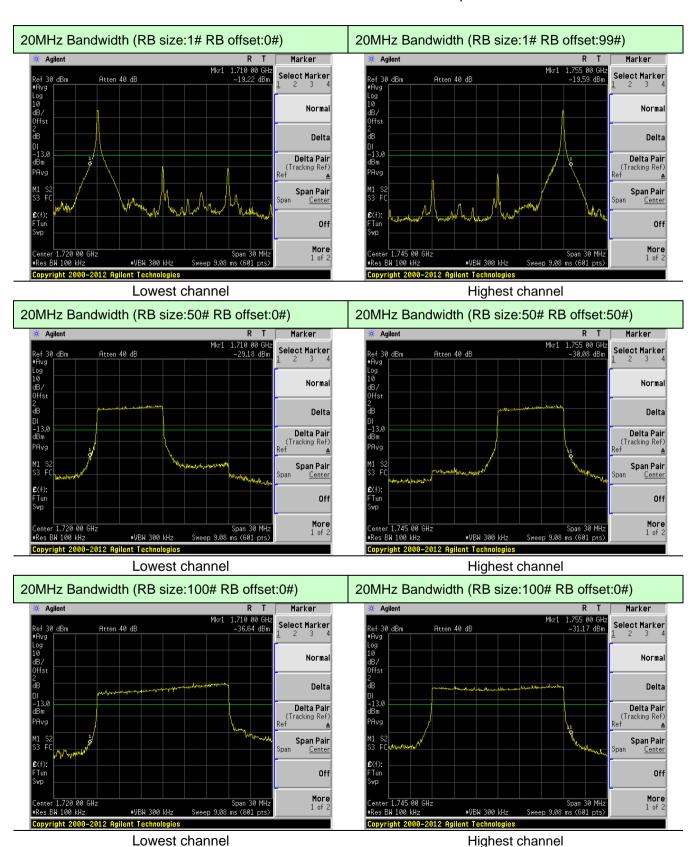
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Lowest channel Highest channel



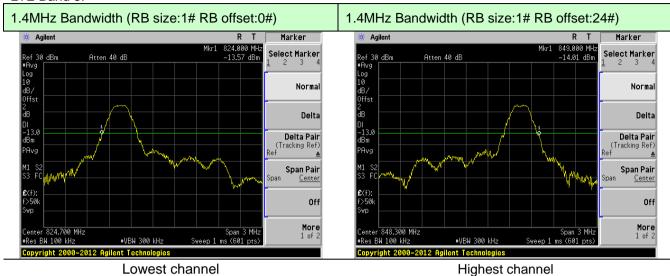


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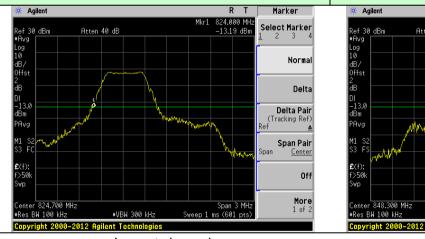
#### LTE Band 5:



2011001 0110111101

1.4MHz Bandwidth (RB size:12# RB offset:0#)

1.4MHz Bandwidth (RB size:12# RB offset:13#)

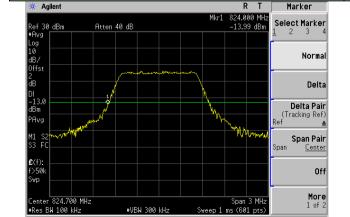


Marker

Lowest channel

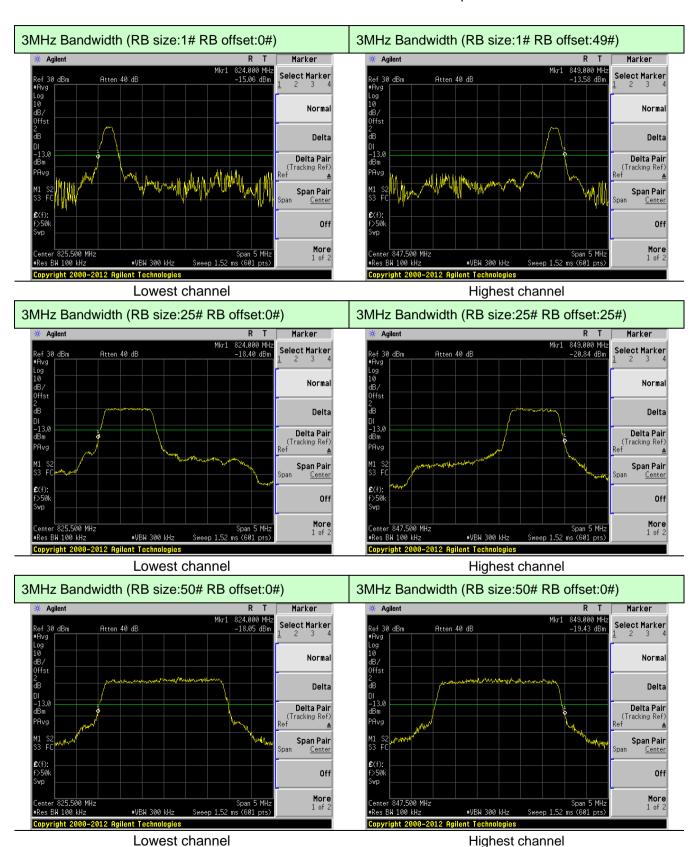
1.4MHz Bandwidth (RB size:25# RB offset:0#)

1.4MHz Bandwidth (RB size:25# RB offset:0#)



Lowest channel Highest channel

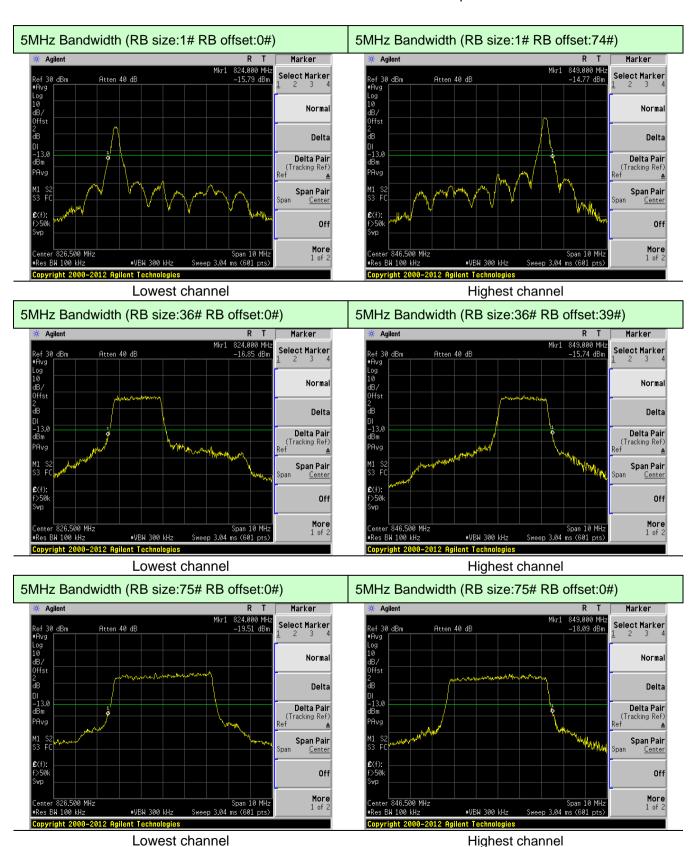




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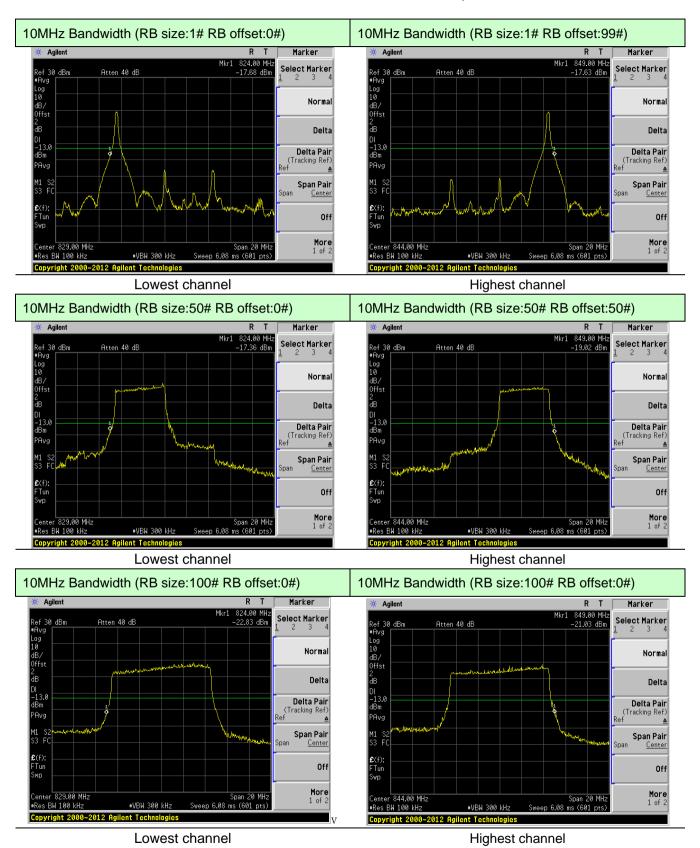


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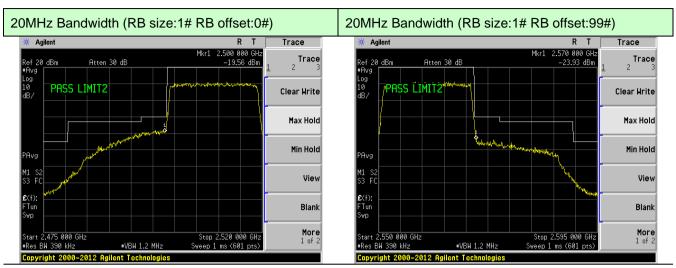
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#### LTE Band 7: 5MHz Bandwidth (RB size:1# RB offset:0#) 5MHz Bandwidth (RB size:1# RB offset:24#) Marker Agilent R T .500 00 GHz -18.73 dBm .570 00 GHz -22.31 dBm Trace Select Marker Atten 30 dB Atten 30 dB PASS LIMIT2 PASS LIMIT2 Clear Write Delta Max Hold **Delta Pair** (Tracking Ref) Min Hold Span Pair View Blank More 1 of 2 Stop 2.507 00 GH Sweep 9.68 ms (601 pts Copyright 2000-2012 Agilent Technologies Copyright 2000-2012 Agilent Technologies Lowest channel Highest channel 10MHz Bandwidth (RB size:1# RB offset:0#) 10MHz Bandwidth (RB size:1# RB offset:49#) \* Agilent Trace Trace PASS LIMIT2 PASS LIMITZ Clear Write Clear Write Max Hold Max Hold Min Hold Min Hold View View Blank Blank #VBW 620 kHz #VBW 620 kHz Lowest channel Highest channel 15MHz Bandwidth (RB size:1# RB offset:0#) 15MHz Bandwidth (RB size:1# RB offset:74#) Trace Trace Trace Atten 30 dB Atten 30 dE PASS LIMIT2 PASS LIMIT2 Clear Write Clear Write Max Hold Max Hold Min Hold Min Hold View View Blank Blank More 1 of 2 More 1 of 2 Stop 2.515 00 GH: Sweep 1.36 ms (601 pts) Stop 2.595 00 GHz

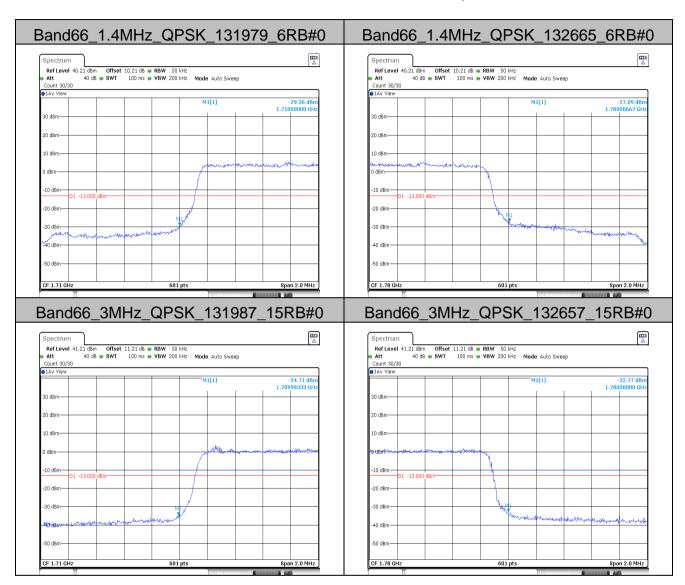
Lowest channel Highest channel



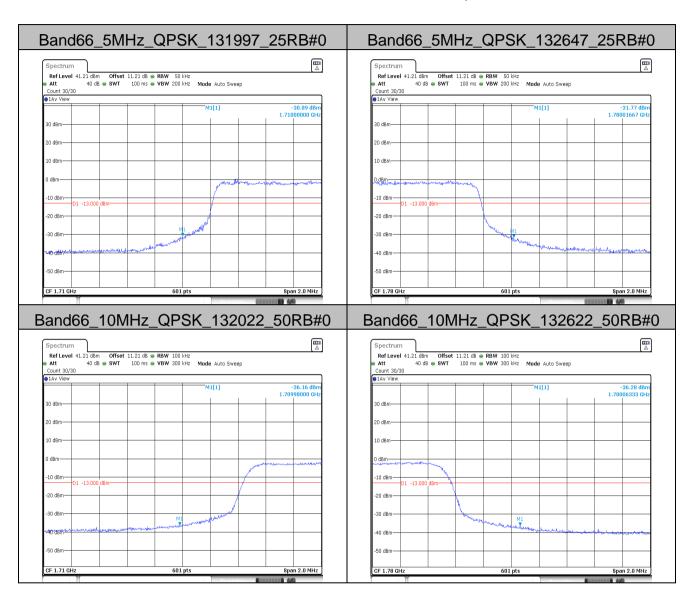


Lowest channel Highest channel



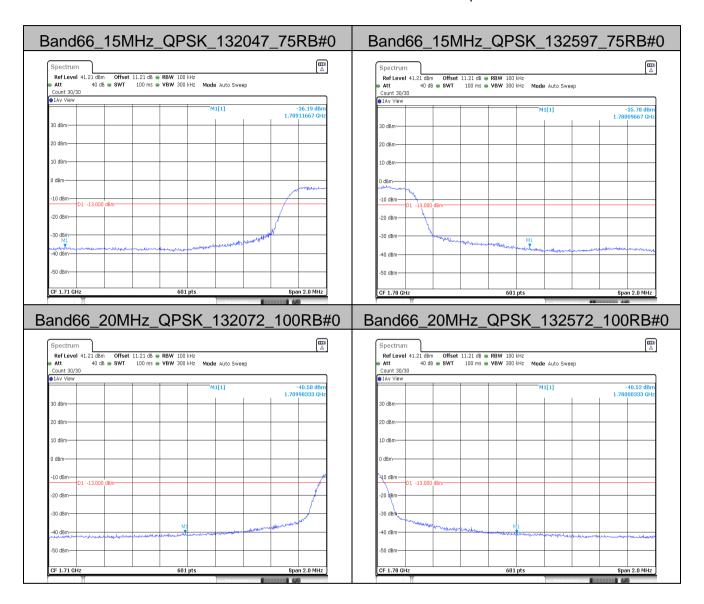






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#### LTE Band 4 (16QAM mode): 1.4MHz Bandwidth (RB size:1# RB offset:0#) 1.4MHz Bandwidth (RB size:1# RB offset:5#) Select Marker Select Marker Atten 40 dB Atten 40 dB Delta Delta **Delta Pair** (Tracking Ref) Delta Pair Span Pair Span Pair Off Off More 1 of 2 More 1 of 2 1.754 300 GHz Lowest channel Highest channel 1.4MHz Bandwidth (RB size:3# RB offset:0#) 1.4MHz Bandwidth (RB size:3# RB offset:2#) \* Agilent 🔆 Agilent 710 000 GHz -14.93 dBm 755 000 GHz –16.40 dBm Select Marker Select Marker Atten 40 dB Atten 40 dB lef 30 dBm Ref 30 dBm Normal Normal Delta **Delta Pair** (Tracking Ref) **Delta Pair** (Tracking Ref) Span Pair Center Span Pair Off Off Span 3 MHz Sweep 1 ms (601 pts) More More 1.754 300 GHz #VBW 300 kHz #VBW 300 kHz Copyright 2000-2012 Agilent Technologies Copyright 2000-2012 Agilent Technologies Lowest channel Highest channel 1.4MHz Bandwidth (RB size:6# RB offset:0#) 1.4MHz Bandwidth (RB size:6# RB offset:0#) Agilent Marker Agilent Marker 1.710 000 GH -14.50 dBm Select Marker Select Marker Atten 40 dE Atten 40 dE Norma Normal Delta Delta **Delta Pair** (Tracking Ref) Delta Pair Span Pair Off Off More 1 of 2 1.710 700 GHz 1.754 300 GHz #VBW 300 kHz #VBW 300 kHz

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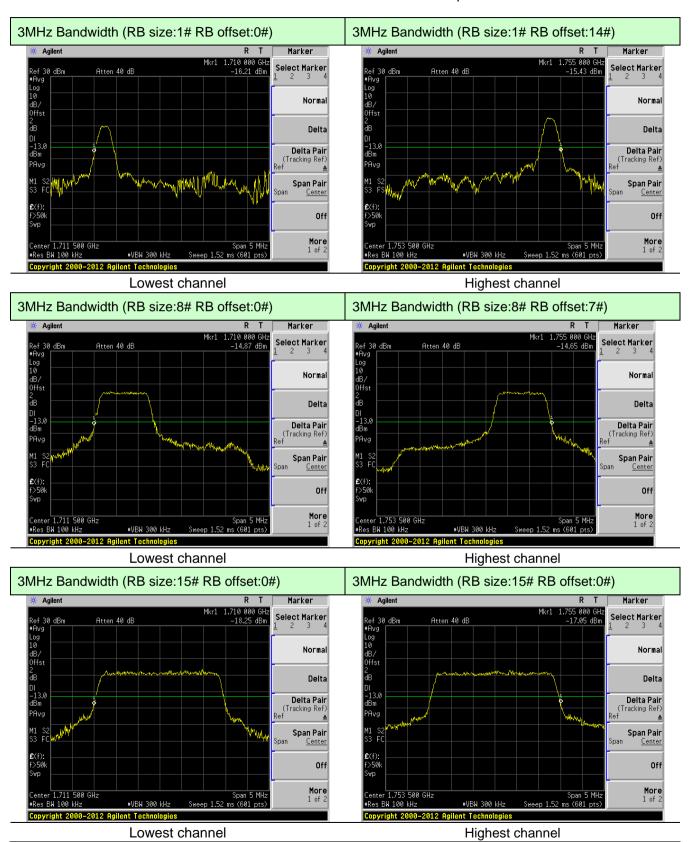
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Lowest channel

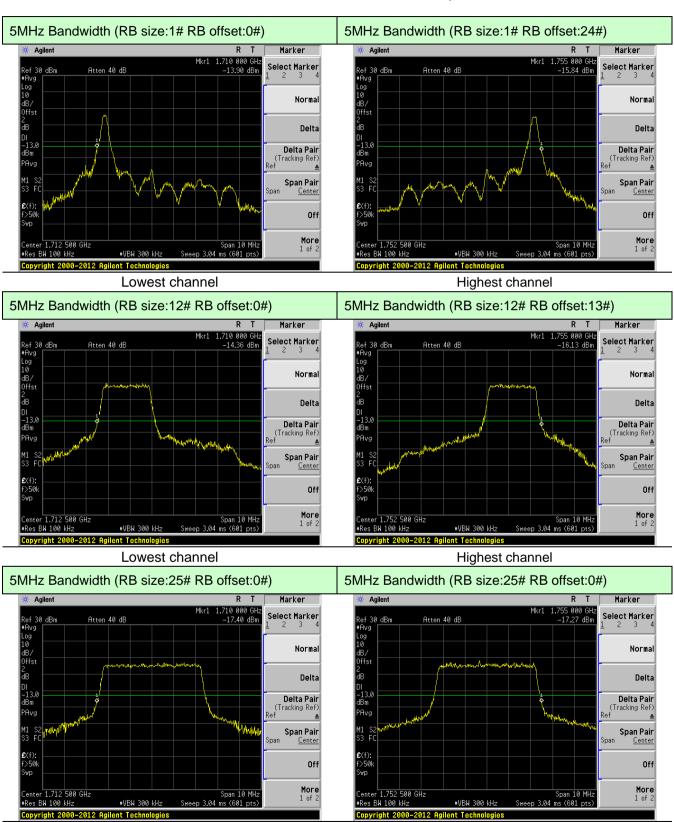
Highest channel

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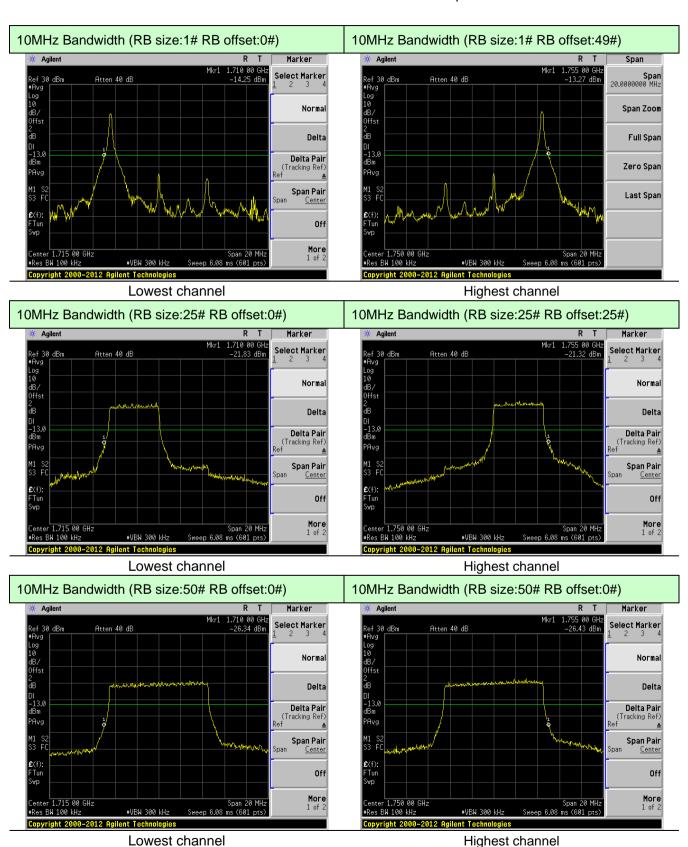




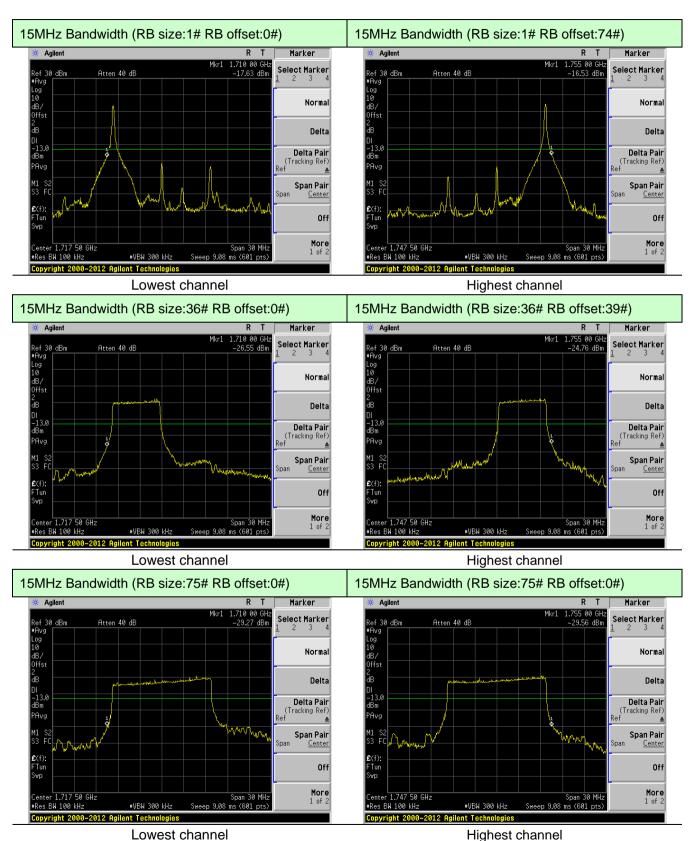


Lowest channel Highest channel



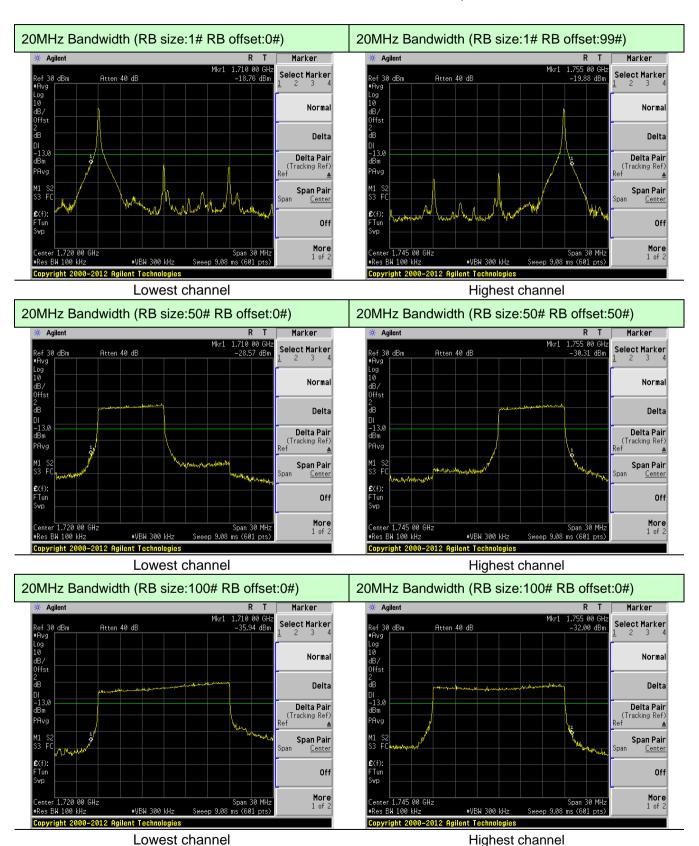






== ...g...g.....





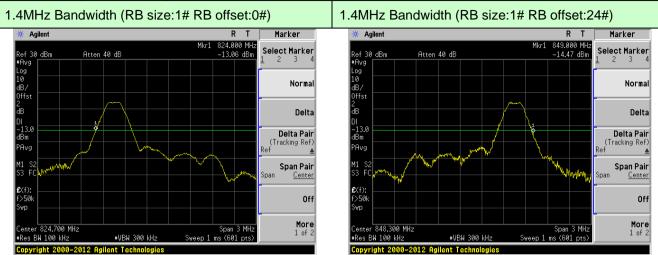
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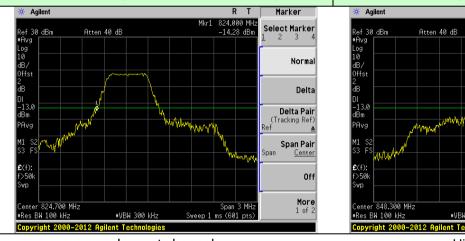
### LTE Band 5 (16QAM mode):



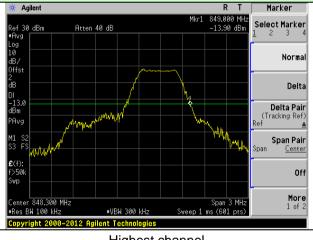
Lowest channel 1.4MHz Bandwidth (RB size:12# RB offset:0#)

1.4MHz Bandwidth (RB size:12# RB offset:13#)

Highest channel

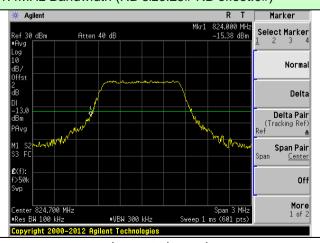


Lowest channel



Highest channel

1.4MHz Bandwidth (RB size:25# RB offset:0#)



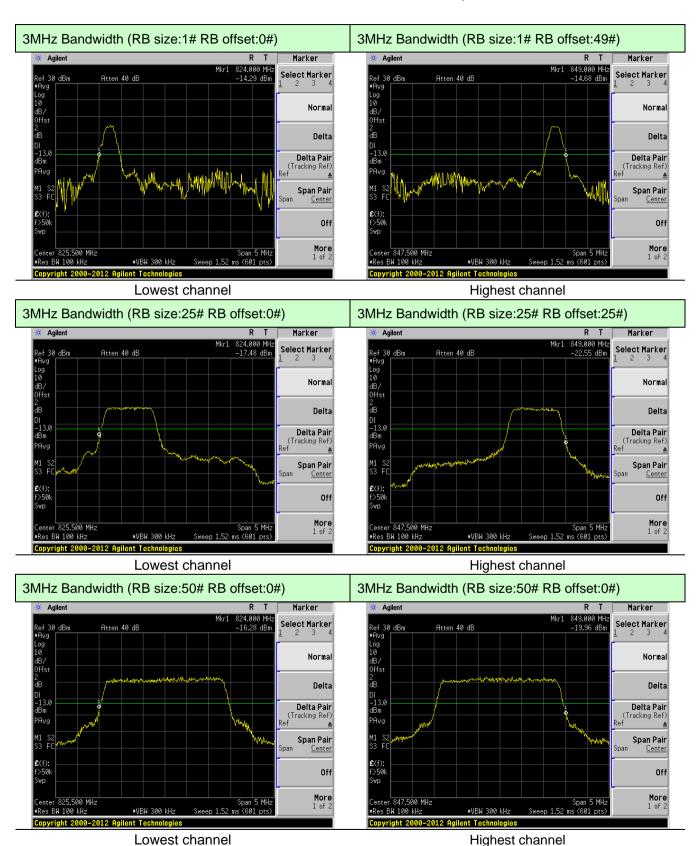
1.4MHz Bandwidth (RB size:25# RB offset:0#)



Lowest channel

Highest channel

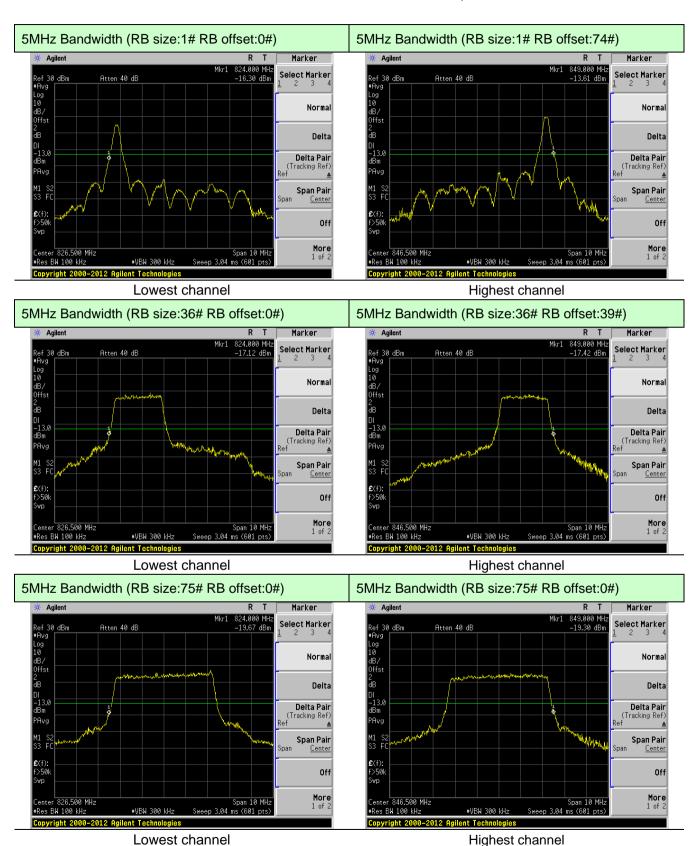




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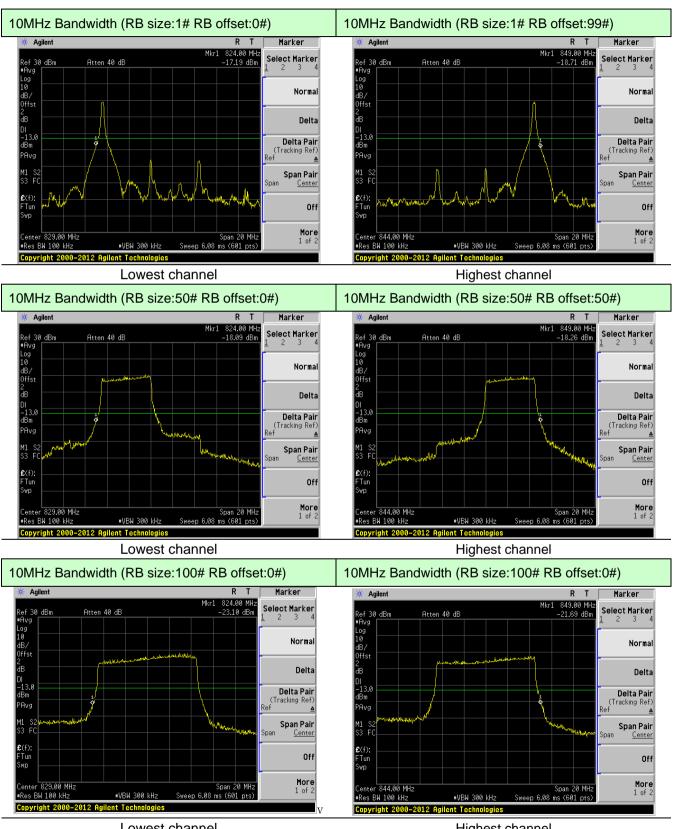


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Lowest channel Highest channel

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#### LTE Band 7 (16QAM mode): 5MHz Bandwidth (RB size:1# RB offset:0#) 5MHz Bandwidth (RB size:1# RB offset:24#) \* Agilent Marker Agilent R T .500 00 GHz -18.73 dBm .570 00 GHz -22.31 dBm Trace Select Marker Atten 30 dB Atten 30 dB PASS LIMIT2 PASS LIMIT2 Clear Write Delta Max Hold **Delta Pair** (Tracking Ref) Min Hold Span Pair View £(f)· Blank More 1 of 2 Stop 2.507 00 GH Sweep 9.68 ms (601 pts Start 2.565 00 GHz #Res BW 100 kHz #VBW 300 kHz #VBW 300 kHz Copyright 2000-2012 Agilent Technologies Copyright 2000-2012 Agilent Technologies Lowest channel Highest channel 10MHz Bandwidth (RB size:1# RB offset:0#) 10MHz Bandwidth (RB size:1# RB offset:49#) \* Agilent Trace Trace .570 00 GH: -22.31 dBm PASS LIMITZ LIMIT2 Clear Write Clear Write Max Hold Max Hold Min Hold Min Hold View View Blank Blank #VBW 620 kHz #VBW 300 kHz Lowest channel Highest channel 15MHz Bandwidth (RB size:1# RB offset:0#) 15MHz Bandwidth (RB size:1# RB offset:74#) Trace Trace Trace Atten 30 dB -17.71 dBm Atten 30 dB PASS LIMITZ PASS LIMIT2 Clear Write Clear Write Max Hold Max Hold Min Hold Min Hold View View Blank Blank

Lowest channel Highest channel

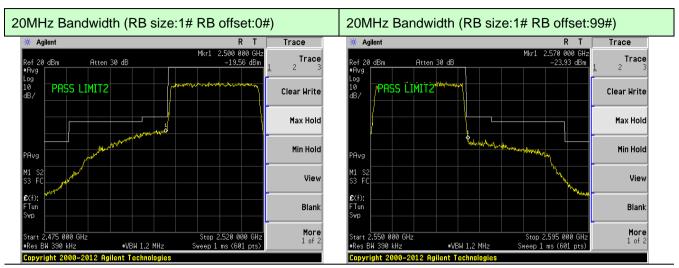
More

Stop 2.515 00 GH: Sweep 1.36 ms (601 pts)

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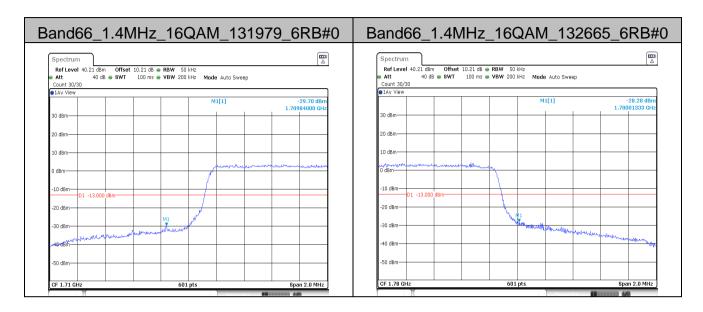
More

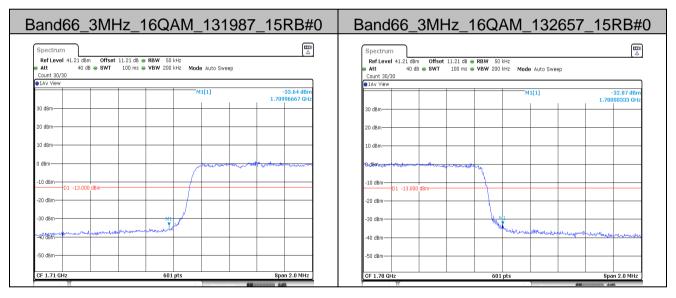




Lowest channel Highest channel





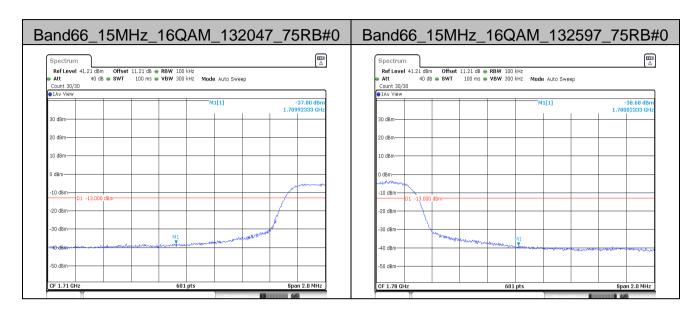


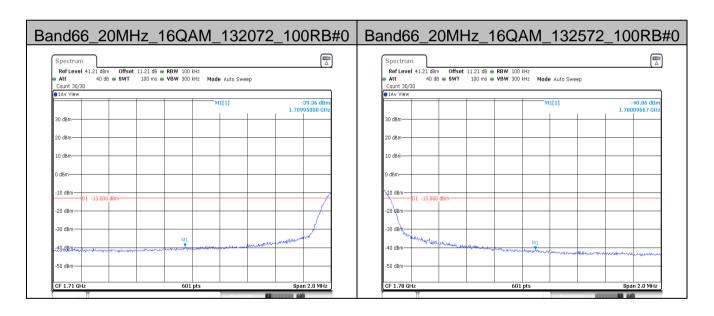






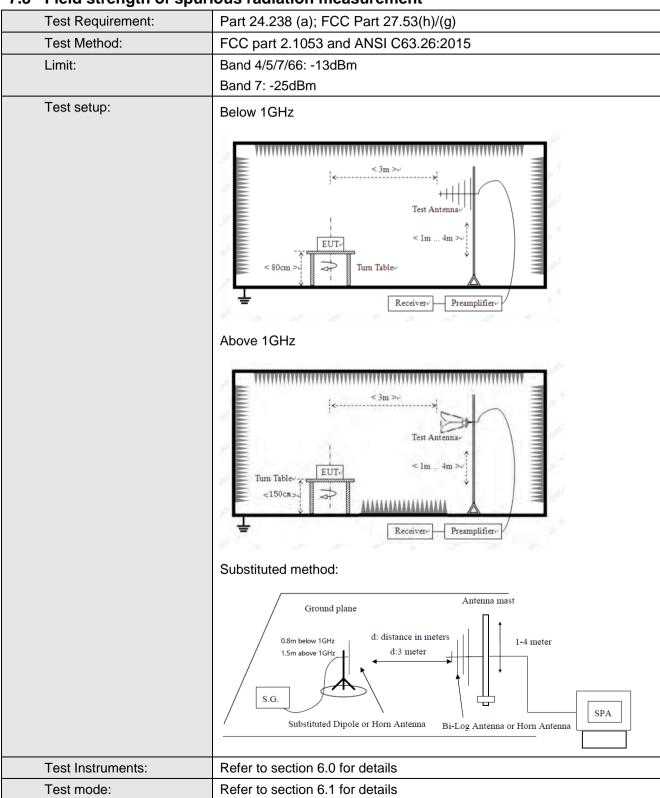








### 7.8 Field strength of spurious radiation measurement





	Report No.: GTS20190500	0145F05
Test results:	Pass	

#### **Measurement Data**

#### Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	Band 66	(1.4MHz)	Test channel:	Lowest	
Fraguesia (MIII-)	Spurious	Emission	Linnit (dDnn)	Decult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3701.40	Vertical	-42.04			
5552.10	V	-43.77			
7402.80	V	-41.03	-13.00	Pass	
9253.50	V	-43.19			
11104.20	V	-42.58			
3701.40	Horizontal	-41.27			
5552.10	Н	-45.14			
7402.80	Н	-44.70	-13.00	Pass	
9253.50	Н	-44.43			
11104.20	Н	-43.85			
Test mode:	Band 66	(1.4MHz)	Test channel:	Middle	
Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·	Emission	Limit (dBm)	Result	
Frequency (Miriz)	Polarization	Level (dBm)	LIIIII (UDIII)	Kesuit	
3760.00	Vertical	-43.16			
5640.00	V	-41.44			
7520.00	V	-41.34	-13.00	Pass	
9400.00	V	-43.15			
11280.00	V	-44.48		_	
3760.00	Horizontal	-41.54			
5640.00	Н	-44.78			
7520.00	Н	-44.09	-13.00	Pass	
9400.00	Н	-45.38			
11280.00	Н	-42.76			
Test mode:	Band 66	(1.4MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
3818.60	Vertical	-42.20			
5727.90	V	-43.24			
7637.20	V	-43.93	-13.00	Pass	
9546.50	V	-42.55			
11455.80	V	-42.75			
3818.60	Horizontal	-41.11			
5727.90	Н	-44.01			
7637.20	Н	-45.18	-13.00	Pass	
9546.50	Н	-47.23			
11455.80	Н	-44.03			



Test mode:	Band 4 (	1.4MHz)	Test channel:	Lowest	
[	Spurious	Emission	Lineit (dDne)	Desuit	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3421.40	Vertical	-41.25			
5132.10	V	-42.71			
6842.80	V	-43.76	-13.00	Pass	
8553.50	V	-41.69			
10264.20	V	-38.31			
3421.40	Horizontal	-39.96			
5132.10	Н	-43.44			
6842.80	Н	-41.87	-13.00	Pass	
8553.50	Н	-42.35			
10264.20	Н	-39.18			
Test mode:	Band 4 (	1.4MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (ubm)	Resuit	
3465.00	Vertical	-42.21			
5197.50	V	-43.74			
6930.00	V	-41.84	-13.00	Pass	
8662.50	V	-42.84			
10395.00	V	-38.62			
3465.00	Horizontal	-43.06			
5197.50	Н	-41.63			
6930.00	Н	-43.11	-13.00	Pass	
8662.50	Н	-41.66			
10395.00	Н	-39.95			
Test mode:	Band 4 (	1.4MHz)	Test channel:	Highest	
Frequency (MHz)		Emission	Limit (dBm)	Result	
	Polarization	Level (dBm)	Limit (dbin)	rtosuit	
3508.60	Vertical	-42.26			
5262.90	V	-43.72			
7017.20	V	-42.77	-13.00	Pass	
8771.50	V	-40.70			
10525.80	V	-39.64			
3508.60	Horizontal	-40.97			
5262.90	Н	-42.45			
7017.20	Н	-43.88	-13.00	Pass	
8771.50	Н	-42.36			
10525.80	Н	-39.99			



Test mode:	Band 5 (	1.4MHz)	Test channel:	Lowest
Г(NДЦ)	Spurious	Emission	Limeit (dDms)	Desuit
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1649.40	Vertical	-43.47		
2474.10	V	-42.57		
3298.80	V	-44.13	-13.00	Pass
4123.50	V	-42.59		
4948.20	V	-40.11		
1649.40	Horizontal	-44.41		
2474.10	Н	-44.78		
3298.80	Н	-45.06	-13.00	Pass
4123.50	Н	-43.56		
4948.20	Н	-41.13		
Test mode:	Band 5 (		Test channel:	Middle
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
Frequency (IVIFIZ)	Polarization	Level (dBm)	Limit (ubin)	Resuit
1673.00	Vertical	-43.05		
2509.50	V	-42.00		
3346.00	V	-44.43	-13.00	Pass
4182.50	V	-43.77		
5019.00	V	-41.68		
1673.00	Horizontal	-44.70		
2509.50	Н	-46.86		
3346.00	Н	-44.55	-13.00	Pass
4182.50	Н	-43.49		
5019.00	Н	-41.61		
Test mode:	Band 5 (	1.4MHz)	Test channel:	Highest
Frequency (MHz)		Emission	Limit (dBm)	Result
	Polarization	Level (dBm)	Lillik (dbill)	rtosuit
1696.60	Vertical	-44.16		
2544.90	V	-40.92		
3393.20	V	-43.19	-13.00	Pass
4241.50	V	-45.38		
5089.80	V	-41.86		
1696.60	Horizontal	-43.44		
2544.90	Н	-47.33		
3393.20	Н	-44.91	-13.00	Pass
4241.50	Н	-44.66		
5089.80	Н	-41.35		



Test mode:	Band 7	(5MHz)	Test channel:	Lowest	
Fraguanay (MHz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
5005.00	Vertical	-44.23			
7507.50	V	-43.02			
10010.00	V	-42.81	-25.00	Pass	
12512.50	V	-42.36			
15015.00	V	-41.77			
5005.00	Horizontal	-43.12			
7507.50	Н	-41.88			
10010.00	Н	-47.35	-25.00	Pass	
12512.50	Н	-45.04			
15015.00	Н	-42.77			
Test mode:	Band 7	(5MHz)	Test channel:	Middle	
Fraguerov (MHz)	Spurious	Emission	Limit (dDm)	Docult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
5070.00	Vertical	-43.16			
7605.00	V	-45.52			
10140.00	V	-43.20	-25.00	Pass	
12675.00	V	-42.69			
15210.00	V	-41.17			
5070.00	Horizontal	-44.71			
7605.00	Н	-42.69		Pass	
10140.00	Н	-44.30	-25.00		
12675.00	Н	-42.58			
15210.00	Н	-41.53			
Test mode:	Band 7	(5MHz)	Test channel:	Highest	
Eroguanay (MHz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
5135.00	Vertical	-44.58			
7702.50	V	-43.07			
10270.00	V	-41.76	-25.00	Pass	
12837.50	V	-43.68			
15405.00	V	-42.50			
5135.00	Horizontal	-42.12			
7702.50	Н	-42.53			
10270.00	Н	-43.97	-25.00	Pass	
12837.50	Н	-45.18			
15405.00	Н	-43.00			



# 7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Att.  Variable Power Supply
Toot propodure.	Note: Measurement setup for testing on Antenna connector  1. The equipment under test was connected to an external DC power
Test procedure:	supply and input rated voltage.
	2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
	3. The EUT was placed inside the temperature chamber.
	4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
	5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
	6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass



#### **Measurement Data**

Modulation Mode: QPSK Mode

Modulation Mode: Q	PSK Mode				
R	eference Frequency	/: LTE Band 4 M	iddle channel= 1	732.5MHz	
Power supplied	Temperature (°C)	Frequency error		Limit (nom)	Dogult
(Vdc)	remperature ( C)	Hz	ppm	Limit (ppm)	Result
	-30	56	0.0300		
	-20	64	0.0338		
	-10	54	0.0288		
	0	45	0.0238		
3.80	10	52	0.0275	2.5	Pass
	20	45	0.0238		
	30	73	0.0388		
	40	66	0.0351		
	50	64	0.0338		
F	Reference Frequenc	y: LTE Band 5 N	/liddle channel=	836.5MHz	
Power supplied (Vdc)	Tomporatura (°C)	Frequency error			Result
rowei supplied (vac)	Temperature (°C)	Hz	ppm		Nesuit
	-30	28	0.0164		
	-20	31	0.0180		
	-10	27	0.0155		
	0	24	0.0139		
3.80	10	25	0.0147	2.5	Pass
	20	23	0.0130		
	30	38	0.0222		
	40	33	0.0189		
	50	31	0.0180	1	



	Reference Frequency: LTE Band 7 Middle channel= 2535MHz						
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result		
(Vdc)	remperature ( C)	Hz	ppm	Еппі (рріп)	Result		
	-30	105	0.0414				
	-20	121	0.0477				
	-10	102	0.0401				
	0	89	0.0350				
3.80	10	99	0.0390	2.5	Pass		
	20	86	0.0341				
	30	145	0.0570				
	40	126	0.0498				
	50	120	0.0471				
	Reference Frequenc	y: LTE Band 66 I	Middle channel=	1745MHz			
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result		
(Vdc)	Temperature ( 0)	Hz	ppm	Еппт (ррпп)	rtoourt		
	-30	122	0.1725				
	-20	144	0.2042				
	-10	122	0.1725				
	0	103	0.1460				
3.80	10	122	0.1725	2.5	Pass		
	20	107	0.1513				
	30	171	0.2412				
	40	148	0.2095				
	50	141	0.1989				



Modulation Mode: 10	6QAM Mode				
R	eference Frequency	/: LTE Band 4 M	iddle channel= 1	732.5MHz	
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (nom)	Result
(Vdc)	remperature (°C)	Hz	ppm	Limit (ppm)	
	-30	115	0.1620		
	-20	133	0.1874		
	-10	108	0.1519		
	0	90	0.1265		
3.80	10	111	0.1569	2.5	Pass
	20	90	0.1265		
	30	151	0.2127		
	40	126	0.1772		
	50	133	0.1874		
R	Reference Frequenc	y: LTE Band 5 N	liddle channel=	836.5MHz	
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
Fower supplied (vdc)	remperature ( C)	Hz	ppm		Result
	-30	183	0.0975		
	-20	215	0.1142		
	-10	176	0.0938		
	0	146	0.0778		
3.80	10	178	0.0949	2.5	Pass
	20	151	0.0801		
	30	240	0.1278		
	40	202	0.1075		
	50	212	0.1127	1	



	Reference Frequency: LTE Band 7 Middle channel= 2535MHz						
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (nnm)	Result		
(Vdc)	remperature ( C)	Hz	ppm	Limit (ppm)	Result		
	-30	68	0.0956				
	-20	79	0.1107				
	-10	64	0.0896				
	0	53	0.0745				
3.80	10	66	0.0926	2.5	Pass		
	20	53	0.0745				
	30	89	0.1258				
	40	74	0.1047				
	50	79	0.1107				
F	Reference Frequenc	y: LTE Band 66 N	Middle channel=	1745MHz			
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result		
(Vdc)	Tomporatare ( o)	Hz	ppm	Σ (ββ)	rtooan		
	-30	147	0.0782				
	-20	172	0.0916				
	-10	141	0.0752				
	0	117	0.0625				
3.80	10	143	0.0761	2.5	Pass		
	20	121	0.0643				
	30	193	0.1025				
	40	162	0.0862				
	50	170	0.0904	1			



# 7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Variable Power Supply  Note: Measurement setup for testing on Antenna connector
Test procedure:	Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
	<ol> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>Reduce the input voltage to specified extreme voltage variation</li> </ol>
	(+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass



#### **Measurement Data**

### Modulation Mode: QPSK Mode

Wodulation Wode: Q					
R	eference Frequency	y: LTE Band 4 Mi	ddle channel= 1	732.5MHz	
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result
Temperature ( 0)	(Vdc)	Hz	ppm	Епти (ррпп)	rtosan
	4.37	30	0.0162		
25	3.80	35	0.0186	2.5	Pass
	3.23	40	0.0211		
F	Reference Frequenc	y: LTE Band 5 M	iddle channel=	836.5MHz	
Tomporatura (°C)	Power supplied	Frequei	ncy error	Limit (nnm)	Result
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	51	0.0297	]	
25	3.80	37	0.0216	2.5	Pass
	3.23	42	0.0243		
F	Reference Frequenc	y: LTE Band 7 M	liddle channel=	2535MHz	
Temperature (°C)	Power supplied	Freque	ncy error	Limit (ppm)	Result
remperature ( C)	(Vdc)	Hz	ppm	сини (ррин)	Result
	4.37	62	0.0874	]	
25	3.80	70	0.0996	2.5	Pass
	3.23	79	0.1115		
R	deference Frequenc	y: LTE Band 66 N	/liddle channel=	1745MHz	
Temperature (°C)	Power supplied	Freque	ncy error	Limait (none)	Result
remperature ( C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	18	0.0098		
25	3.80	21	0.0112	2.5	Pass
	3.23	24	0.0126		



### Modulation Mode: 16QAM Mode

Modulation Mode: 1	6QAM Mode				
R	eference Frequency	y: LTE Band 4 Mi	ddle channel= 1	1732.5MHz	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (nnm)	Popult
		Hz	ppm	Limit (ppm)	Result
25	4.37	30	0.0175	2.5	Pass
	3.80	22	0.0129		
	3.23	25	0.0145		
Reference Frequency: LTE Band 5 Middle channel= 836.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm	Еппі (рріп)	Result
25	4.37	36	0.0514	2.5	Pass
	3.80	41	0.0583		
	3.23	46	0.0651		
I	Reference Frequenc	y: LTE Band 7 N	liddle channel=	2535MHz	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm	Limit (ppm)	Result
25	4.37	20	0.0104	2.5	Pass
	3.80	22	0.0118		
	3.23	25	0.0133		
R	Reference Frequenc	y: LTE Band 66 N	/liddle channel=	: 1745MHz	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm	Ziiiii (ppiii)	rtoduit
25	4.37	38	0.0531	2.5	Pass
	3.80	42	0.0600		
	3.23	47	0.0668		



# 8 Test Setup Photo

Reference to the appendix I for details.

# 9 EUT Constructional Details

Reference to the appendix II for details.

----End-----