

🥇 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE171000606

FCC REPORT

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: LTE mobile phone

Model No.: N5702L, G2, G3

Trade mark: NUU

FCC ID: 2ADINN5702L

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

FCC CFR Title 47 Part 27 Subpart L, M & H

Date of sample receipt: 09 Oct., 2017

Date of Test: 09 Oct., to 03 Nov., 2017

Date of report issued: 06 Nov., 2017

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	06 Nov., 2017	Original

Test Engine

Date: 06 Nov., 2017

Project Enginee

Reviewed by:





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4. Test Summary

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307	Passed
IXI Exposure (SAIX)	Part 2.1093	(Please refer to SAR Report)
	Part 2.1046	
	Part 22.913 (a)(2)	
DE Output Dower	Part 24.232 (c)	Pass
RF Output Power	Part 27.50 (c)(10)	Pass
	Part 27.50 (d)(4)	
	Part 27.50 (h)(2)	
Dook to Average Datio	Part 24.232 (d)	Dage
Peak-to-Average Ratio	Part 27.50 (d)(5)	Pass
Modulation Characteristics	Part 2.1047	Pass
	Part 2.1049	
	Part 22.917(b)	
	Part 24.238(b)	_
99% & -26 dB Occupied Bandwidth	Part 27.53(g)	Pass
	Part 27.53(h)	
	Part 27.53(m)	
	Part 2.1051	
	Part 22.917(a)	
	Part 24.238 (a)	_
Spurious Emissions at Antenna Terminal	Part 27.53 (g)	Pass
	Part 27.53 (h)	
	Part 27.53(m)	
	Part 2.1053	
	Part 22.917(a)	
F: 110: # 10 : B !! !!	Part 24.238 (a)	
Field Strength of Spurious Radiation	Part 27.53 (g)	Pass
	Part 27.53 (h)	
	Part 27.53(m)	
	Part 22.917(a)	
	Part 24.238 (a)	
Out of band emission, Band Edge	Part 27.53 (g)	Pass
	Part 27.53 (h)	
	Part 27.53(m)	
	Part 22.355	
Francisco et al. illih error ta arang anatoma	Part 24.235	Dani
Frequency stability vs. temperature	Part 27.54	Pass
	Part 2.1055(a)(1)(b)	
	Part 22.355	
	Part 24.235	
Frequency stability vs. voltage	Part 27.54	Pass
	Part 2.1055(d)(1)(2)	
Pass: The EUT complies with the essential re		1



Report No: CCISE171000606

5. General Information

5.1 Client Information

Applicant:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory:	SUNCUPID (ShenZhen) Electronic Ltd
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A7, China.

5.2 General Description of E.U.T.

Product Name:	LTE mobile phone
Model No.:	N5702L,G2, G3
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz LTE Band 4:TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz LTE Band 5:TX: 824MHz-849MHz, RX: 869MHz-894MHz LTE Band 7: TX: 2500MHz -2570MHz, RX: 2620MHz-2690MHz LTE Band 12: TX: 699MHz -716MHz, RX: 729MHz-746MHz LTE Band 17: TX: 704MHz -716MHz, RX: 734MHz-746MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 2: -2.60 dBi LTE Band 4: -2.91dBi LTE Band 5: -3.54dBi LTE Band 7: -2.17dBi LTE Band 12: -4.42dBi LTE Band 17: -4.42dBi
AC adapter with two plugs :	Model: HNEM050200UU Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2000mA
Power supply:	Rechargeable Li-ion Battery DC3.8V-3000mAh
Remark:	Model No.: N5702L, G2, G3 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.





<u> </u>			
2(1.4MHz)	LTE Band 2(3MHz)		
Frequency (MHz)	Channel	Frequency (MHz)	
1850.70	18615	1851.50	
1850.80	18616	1851.60	
1879.90	18899	1879.90	
1880.00	18900	1880.00	
1880.10	18901	1880.10	
1909.20	19185	1908.40	
1909.30	19186	1908.50	
I 2(5MHz)	LTE Band	d 2(10MHz)	
Frequency (MHz)	Channel	Frequency (MHz)	
1852.50	18650	1855.00	
1852.60	18651	1855.10	
1879.90	18899	1879.90	
1880.00	18900	1880.00	
1880.10	18901	1880.10	
1907.40	19150	1904.90	
1907.50	19151	1905.00	
2(15MHz)	LTE Band 2(20MHz)		
Frequency (MHz)	Channel	Frequency (MHz)	
1857.50	18700	1860.00	
1857.60	18701	1860.10	
1879.90	18899	1879.90	
1880.00	18900	1880.00	
1880.10	18901	1880.10	
•••			
1902.40	19100	1899.90	
1902.50	19101	1900.00	
	2(1.4MHz) Frequency (MHz) 1850.70 1850.80 1879.90 1880.00 1880.10 1909.20 1909.30 12(5MHz) Frequency (MHz) 1852.50 1852.60 1879.90 1880.00 1880.10 1907.40 1907.50 2(15MHz) Frequency (MHz) 1857.50 1857.60 1879.90 1880.00 1880.10 1902.40	Z(1.4MHz) LTE Bar Frequency (MHz) Channel 1850.70 18615 1850.80 18616 1879.90 18899 1880.00 18900 1880.10 18901 1909.20 19185 1909.30 19186 2(5MHz) LTE Ban Frequency (MHz) Channel 1852.50 18650 1852.60 18651 1879.90 18899 1880.10 18900 1880.10 19150 1907.50 19151 2(15MHz) LTE Ban Frequency (MHz) Channel 1857.50 18700 1857.60 18701 1879.90 18899 1880.00 18900 1880.10 18900 1880.10 18901	





LTE Band 4(1.4MHz)		LTE Band 4(3MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
19957	1710.70	19965	1711.50	
19958	1710.80	19966	1711.60	
••••				
20174	1732.40	20174	1732.40	
20175	1732.50	20175	1732.50	
20176	1732.60	20176	1732.60	
20392	1754.20	20384	1753.40	
20393	1754.30	20385	1753.50	
LTE Band	d 4(5MHz)	LTE Ban	d 4(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
19975	1712.50	20000	1715.00	
19976	1712.60	20001	1715.10	
20174	1732.40	20174	1732.40	
20175	1732.50	20175	1732.50	
20176	1732.60	20176	1732.60	
20374	1752.40	20349	1749.90	
20375	1752.50	20350	1750.00	
LTE Band	4(15MHz)	LTE Band 4(20MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
20025	1717.50	20050	1720.00	
20026	1717.60	20051	1720.10	
20174	1732.40	20174	1732.40	
20175	1732.50	20175	1732.50	
20176	1732.60	20176	1732.60	
20324	1747.40	20299	1744.90	
20325	1747.50	20300	1745.00	





LTE Band 5(1.4MHz)		LTE Band 5(3MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
20407	824.70	20415	825.50	
20408	824.80	20416	825.60	
20524	836.40	20524	836.40	
20525	836.50	20525	836.50	
20525	836.60	20525	836.60	
20642	848.20	20634	847.40	
20643	848.30	20635	847.50	
LTE Ba	nd 5(5MHz)	LTE Band 5(10MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
20425	826.50	20450	829.00	
20426	826.60	20451	829.10	
20524	836.40	20524	836.40	
20525	836.50	20525	836.50	
20525	836.60	20525	836.60	
20624	846.40	20599	843.90	
20625	846.50	20600	844.00	





LTE Band 7(5MHz)		LTE Band 7(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.50	20800	2505.00
20776	2502.60	20801	2502.10
••••			
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
21424	2567.40	21399	2564.90
21425	2567.50	21400	2565.00
LTE Bar	nd 7(15MHz)	LTE Band 7(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.50	20850	2510.00
20826	2507.60	20851	2510.10
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
	0505.00	21101	2535.20
21101	2535.20	21101	2000.20
21101	2535.20		





LTE Band 12(1.4MHz)		LTE Band 12(3MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
23017	699.70	23025	700.50	
23018	699.80	23026	700.60	
23094	707.40	23094	707.40	
23095	707.50	23095	707.50	
23096	707.60	23096	707.60	
23174	715.20	23164	714.40	
23175	715.30	23165	714.50	
LTE Band	1 12(5MHz)	LTE Band 12(10MHz)		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
23035	701.50	23060	704.00	
23036	701.60	23061	704.10	
			••••	
23094	707.40	23094	707.40	
23095	707.50	23095	707.50	
23096	707.60	23096	707.60	
23154	713.40	23129	710.90	
23155	713.50	23130	711.00	

LTE Band 17(5MHz)		LTE Band 17(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23755	706.50	23780	709.00
23756	706.60	23781	709.10
23789	709.90	23789	709.90
23790	710.00	23790	710.00
23791	710.10	23791	710.10
23824	713.40	23799	710.90
23825	713.50	23800	711.00





Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 2(1.4MHz)		LTE Band 2(3MHz)			
Channe	Channel		Channel		Frequency (MHz)
Lowest channel	18607	1850.70	Lowest channel	18615	1851.50
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19193	1909.30	Highest channel	19185	1908.50
LT	E Band 2(5MH	z)	LTE	E Band 2(10MF	Hz)
Channe	el	Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18625	1852.50	Lowest channel	18650	1855.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19175	1907.50	Highest channel	19150	1905.00
LTE	E Band 2(15MF	łz)	LTE Band 2(20MHz)		Hz)
Channe	el	Frequency (MHz)	Channe	el	Frequency (MHz)
Lowest channel	18675	1857.50	Lowest channel	18700	1860.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19125	1902.50	Highest channel	19100	1900.00

LTE	E Band 4(1.4Ml	Hz)	LTE Band 4(3MHz)			
Channe	l:	Frequency (MHz)	Channe	Channel		
Lowest channel	19957	1710.70	Lowest channel	19965	1711.50	
Middle channel	20175	1732.50	Middle channel	20175	1732.50	
Highest channel	20393	1754.30	Highest channel	20385	1753.50	
LT	E Band 4(5MH	z)	LTE	E Band 4(10MF	Hz)	
Channe	el	Frequency (MHz)	Channel		Frequency (MHz)	
Lowest channel	19975	1712.50	Lowest channel	20000	1715.00	
Middle channel	20175	1732.50	Middle channel	20175	1732.50	
Highest channel	20375	1752.50	Highest channel 20350		1750.00	
LTE	E Band 4(15MF	łz)	LTE Band 4(20MHz)		Hz)	
Channe	el	Frequency (MHz)	Channe	ı	Frequency (MHz)	
Lowest channel	20025	1717.50	Lowest channel	20050	1720.00	
Middle channel	20175	1732.50	Middle channel	20175	1732.50	
Highest channel	20325	1747.50	Highest channel	20300	1745.00	





LTE	Band 5(1.4Ml	Hz)	LTE Band 5(3MHz)			
Channel		Frequency (MHz)	Channe	el	Frequency (MHz)	
Lowest channel	20407	824.70	Lowest channel	20415	825.50	
Middle channel	Middle channel 20525		Middle channel	20525	836.50	
Highest channel	Highest channel 20643		Highest channel 20635		847.50	
LT	E Band 5(5MH	z)	LTE Band 5(10MHz)			
Channe	el	Frequency (MHz)	Channe	Frequency (MHz)		
Lowest channel	20425	826.50	Lowest channel	20450	829.00	
Middle channel 20525		836.50	Middle channel 20525		836.50	
Highest channel	Highest channel 20625		Highest channel	20600	844.00	

LT	E Band 7(5MH	z)	LTE Band 7(10MHz)			
Channel		Frequency (MHz)	Channel		Frequency (MHz)	
Lowest channel	20775	2502.50	Lowest channel	20800	2505.00	
Middle channel	21100	2535.00	Middle channel	21100	2535.00	
Highest channel	Highest channel 21425		Highest channel 21400		2565.00	
LTE	E Band 7(15MF	łz)	LTE Band 7(20MHz)			
Channe	el	Frequency (MHz)	Channe	Frequency (MHz)		
Lowest channel	20825	2507.50	Lowest channel	20850	2510.00	
Middle channel	21100	2535.00	Middle channel	21100	2535.00	
Highest channel	21375	2562.50	Highest channel	21350	2560.00	

LTE	Band 12(1.4M	Hz)	LTE Band 12(3MHz)			
Channe	el	Frequency (MHz)	Channel		Frequency (MHz)	
Lowest channel	23017	699.70	Lowest channel	23025	700.50	
Middle channel	Middle channel 23095		Middle channel	23095	707.50	
Highest channel 23175		715.30	Highest channel 23165		714.50	
LTE	E Band 12(5MF	Hz)	LTE Band 12(10MHz)			
Channe	el	Frequency (MHz)	Channe	Frequency (MHz)		
Lowest channel	23035	701.50	Lowest channel	23060	704.00	
Middle channel 23095		707.50	Middle channel 23095		707.50	
Highest channel	Highest channel 23155		Highest channel	23130	711.00	





	LTE	E Band 17(5MF	łz)	LTE Band 17(10MHz)			
	Channel Lowest channel 23755		Frequency (MHz)	Channel		Frequency (MHz)	
			706.50	Lowest channel	23780	709.00	
	Middle channel	23790	710.00	Middle channel	23790	710.00	
	Highest channel	23825	713.50	Highest channel	23800	711.00	



5.3 Test environment and mode

ľ	Operating Environmen	Operating Environment:						
I	Temperature:	Normal: 15℃ ~ 35℃, Extreme: -30℃ ~ +50℃						
I	Humidity:	20 % ~ 75 % RH						
I	Atmospheric Pressure:	1008 mbar						
	Voltage:	Nominal: 3.8Vdc, Extreme: Low 3.5 Vdc, High 4.35 Vdc						
I	Test mode:							
ĺ	LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode						
I	LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode						
- 1								

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Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes with power adaptor, earphone and Data cable. Just the worst case position (H mode) shown in report.

5.4 Description of Support Units

Test Equipment Manufacturer		Model No.	Serial No.	
Simulated Station	Anritsu	MT8820C	6201026545	

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

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5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	02-24-2018
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018
Spectrum Analyzer	Agilent	N9020A	MY50510123	10-29-2017	10-28-2018
Signal Generator	Rohde & Schwarz	SMX	835454/016	02-25-2017	02-24-2018
Signal Generator	R&S	SMR20	1008100050	02-25-2017	02-24-2018
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2017	02-24-2018
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2017	10-30-2018
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2017	09-23-2018
Simulated Station	Rohde & Schwarz	CMW500	140493	06-24-2017	06-23-2018





6. Test results

6.1 Conducted Output Power

Test Requirement:	Port 22 012 (a) ECCPort 24 222 (a) port 27 50(a) port 27 50(d)					
rest Requirement.	Part 22.913 (a), FCCPart 24.232 (c), part 27.50(c), part 27.50(d),					
	Part 27.50 (h)					
Test Method:	ANSI/TIA-603-D 2010					
Limit:	LTE Band2: 2W					
	LTE Band 4: 1W					
	LTE Band 5: 7W					
	LTE Band 7: 2W					
	LTE Band 12: 3W					
	LTE Band 17: 3W					
Test Setup:						
	System simulator ATT EUT					
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					





Measurement Data:

					Ave	erage Power (dE	Rm)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	18607	18900	19193
Dana	(MHz)	Modulation	ND 0120	IND Offset	1850.7MHz	1880.0MHz	1909.3MHz
			1	0	22.17	22.22	22.05
						22.12	
			1	2	22.09		22.07
		00014	1	5	22.21	22.23	22.09
		QPSK	3	0	22.25	22.12	22.18
			3	1	22.22	22.14	22.09
			3	2	22.26	22.18	22.15
2	1.4		6	0	21.25	21.15	21.18
_			1	0	21.30	21.30	21.03
			1	2	21.26	21.32	21.23
			1	5	21.21	21.04	21.27
		16QAM	3	0	21.30	21.27	21.50
			3	1	21.35	21.28	21.48
			3	2	21.30	21.36	21.31
			6	0	20.36	20.58	20.45
						erage Power (di	3m)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	18615	18900	19185
ZTZ Baria	(MHz)	· · · · · · · · · · · · · · · · · · ·	112 0.20	112 011001	1851.5MHz	1880.0MHz	1908.5MHz
			1	0	22.36	22.52	22.45
			1	7	22.24	22.48	22.38
			1	14	22.30	22.50	22.45
		QPSK					
			8	0	21.59	21.51	21.51
			8	4	21.51	21.49	21.49
			8	7	21.53	21.51	21.49
2	3		15	0	21.49	21.54	21.50
			1	0	21.52	21.55	21.75
			1	7	21.46	21.45	21.38
			1	14	21.80	21.47	21.41
		16QAM	8	0	21.60	20.59	20.56
			8	4	21.59	20.66	20.58
			8	7	21.70	20.55	20.50
			15	0	20.62	20.52	20.51
	Bandwidth				Ave	erage Power (de	3m)
LTE Band	(MHz)	Modulation	RB Size	RB Offset	18625	18900	19175
	(IVII IZ)				1852.5MHz	1880.0MHz	1907.5MHz
			1	0	22.62	22.54	22.40
			1	12	22.53	22.50	22.38
			1	24	21.36	22.50	22.38
		QPSK	12	0	21.39	21.38	21.32
			12	6	21.33	21.40	21.40
			12	11	21.35	21.32	21.33
			25	0	21.31	21.36	21.30
2	5		1	0	21.75	21.48	21.72
			1	12	21.64	21.27	21.65
			1	24	21.53	21.56	21.28
		16QAM	12	0	20.39	20.65	20.36
		IUQAW	12	6	20.56	20.56	20.40
			12	11			
			25	0	20.42 20.32	20.48 20.38	20.48 20.31
			20	U	20.32	20.30	20.31





					Λ.ν.	orago Dower (di	2m)	
LTE Band	Bandwidth	Modulation	RB Size	RB Offset		Average Power (dBm)		
LIE Band	(MHz)	Modulation	RB SIZE	RB Oliset	18650	18900	19150	
	, ,				1855.0MHz	1880.0MHz	1905.0MHz	
			1	0	22.49	22.51	22.52	
			1	24	22.35	22.42	22.45	
			1	49	22.46	22.42	22.46	
		QPSK	25	0	21.41	21.35	21.38	
			25	12	21.34	21.37	21.40	
			25	24	21.36	21.36	21.43	
2	10		50	0	21.37	21.38	21.44	
۷	10		1	0	21.78	21.54	21.35	
			1	24	21.67	21.63	21.65	
			1	49	21.66	21.75	21.53	
		16QAM	25	0	20.46	20.41	20.42	
			25	12	20.44	20.42	20.39	
			25	24	20.45	20.43	20.41	
			50	0	20.39	20.35	20.44	
						erage Power (di		
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	18675	18900	19125	
LTE Band	(MHz)	Wiodulation	TO OIZE	IND Offset	1857.5MHz	1880.0MHz	1902.5MHz	
			1	0	22.57	22.48	22.59	
				37		22.32	22.43	
			1		22.36			
	15	QPSK	1	74	22.47	22.41	22.47	
			36	0	21.44	21.39	21.59	
			36	16	21.39	21.37	21.54	
			36	35	21.40	21.40	21.49	
2			75	0	21.41	21.38	21.48	
_			1	0	21.65	21.85	21.86	
			1	37	21.69	21.65	21.70	
			1	74	21.80	21.72	21.19	
		16QAM	36	0	20.48	20.44	20.56	
			36	16	20.43	20.43	20.39	
			36	35	20.45	20.39	20.41	
			75	0	20.37	20.37	20.49	
	Dondwidth					Ave	erage Power (di	3m)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	18700	18900	19100	
	(MHz)				1860.0MHz	1880.0MHz	1900.0MHz	
			1	0	22.58	22.52	22.65	
			1	49	22.39	22.27	22.43	
			1	99	22.45	22.45	22.58	
		QPSK	50	0	21.51	21.44	21.68	
		<u> </u>	50	24	21.37	21.39	21.45	
			50	49	21.46	21.44	21.57	
			100	0	21.44	21.41	21.60	
2	20		1	0	21.96	21.84	21.33	
			1	49	21.36	21.59	21.66	
			1	99	21.85	21.59	21.42	
		160 484	50	0	20.42	20.42	20.62	
		16QAM						
			50	24	20.35	20.39	20.39	
			50	49	20.42	20.46	20.50	
			100	0	20.47	20.42	20.59	





	5 1				Ave	erage Power (dE	3m)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	19957	20175	20393
	(MHz)				1710.7MHz	1732.5MHz	1754.3MHz
			1	0	22.45	22.35	22.29
			1	2	22.33	22.35	22.35
			1	5	22.45	22.31	22.36
		QPSK	3	0	22.50	22.48	22.35
		QI OIX	3	1	22.45	22.41	22.40
					22.51	22.48	22.41
			6				21.44
4	1.4		1	0	21.44 21.38 21.81 21.78		21.60
			1	2	21.66	21.66	21.59
			1	5	21.66	21.74	21.31
		16QAM	3	0			21.27
		IOQAW			21.64	21.58	
			3	1	21.36	21.51	21.52
			3	2	21.58	21.53	21.48
			6	0	20.73	20.45	20.36
	Bandwidth		DD 0:	DD 011 1		erage Power (de	,
LTE Band	Band (MHz)	Modulation	RB Size	RB Offset	19965	20175	20385
			_		1711.5MHz	1732.5MHz	1753.5MHz
		0004	1	0	22.38	22.45	22.58
			1	7	22.51	22.40	22.51
			1	14	22.30	22.42	22.56
		QPSK	8	0	21.63	21.51	21.48
			8	4	21.60	21.49	21.50
			8	7	21.62	21.50	21.46
4	3		15	0	21.60	21.50	21.49
·	· ·	16QAM	1	0	21.52	21.68	21.80
			1	7	21.55	21.75	21.57
			1	14	21.85	21.51	21.60
			8	0	20.75	20.58	20.58
			8	4	20.66	20.56	20.55
			8	7	20.69	20.57	20.59
			15	0	20.68	20.49	20.51
	Bandwidth				Ave	erage Power (dE	Bm)
LTE Band		Modulation	RB Size	RB Offset	19975	20175	20375
	(MHz)				1712.5MHz	1732.5MHz	1752.5MHz
			1	0	22.42	22.51	22.52
			1	12	22.40	22.45	22.53
			1	24	22.44	22.45	22.51
		QPSK	12	0	21.52	21.42	21.44
			12	6	21.53	21.41	21.45
			12	11	21.49	21.39	21.43
4			25	0	21.51	21.40	21.42
4	5		1	0	21.91	21.75	21.71
			1	12	21.50	21.21	21.40
			1	24	21.30	21.21	21.37
		16QAM	12	0	20.65	20.58	20.48
			12	6	20.63	20.69	20.49
			12	11	20.52	20.46	20.58
			25	0	20.57	20.42	20.43





					Λνα	erage Power (di	Sm)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	20000	20175	20350
LTE Ballu	(MHz)	Modulation	ND SIZE	IND Offset			
			4		1715.0MHz	1732.5MHz	1750.0MHz
			1	0	22.63	22.65	22.50
			1	24	22.51	22.53	22.45
			1	49	22.51	22.49	22.47
		QPSK	25	0	21.54	21.46	21.49
			25	12	21.50	21.42	21.45
			25	24	21.51	21.39	21.37
4	10		50	0	21.53	21.44	21.44
7	10		1	0	21.55	21.58	21.64
			1	24	21.91	21.43	21.40
			1	49	21.73	21.64	21.71
		16QAM	25	0	20.62	20.56	20.49
			25	12	20.53	20.54	20.49
			25	24	20.55	20.45	20.38
			50	0	20.52	20.50	20.44
						erage Power (di	
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	20025	20175	20325
	(MHz)				1717.5MHz	1732.5MHz	1747.5MHz
			1	0	22.73	22.70	22.59
			1	37	22.50	22.42	22.40
			1	74	22.58	22.42	22.47
		QPSK	36	0	21.60	21.53	21.55
		QFSK					
			36	16	21.58	21.45	21.42
			36	35	21.57	21.41	21.43
4	15		75	0	21.57	21.46	21.48
		16QAM	1	0	21.68	21.68	21.92
			1	37	21.75	21.78	21.37
			1	74	21.96	21.79	21.60
			36	0	20.66	20.56	20.65
			36	16	20.61	20.55	20.58
			36	35	20.62	20.46	20.50
			75	0	20.58	20.48	20.53
	Bandwidth					erage Power (di	
LTE Band	(MHz)	Modulation	RB Size	RB Offset	20050	20175	20300
	(1011 12)				1720.0MHz	1732.5MHz	1745.0MHz
			1	0	22.89	22.86	22.75
			1	49	22.56	22.45	22.45
			1	99	22.68	22.59	22.60
		QPSK	50	0	21.63	21.57	21.86
		.,	50	24	21.55	21.49	21.48
			50	49	21.69	21.36	21.49
			100	0	21.65	21.49	21.61
4	20		1	0	22.12	21.76	21.69
			1	49	21.81	21.56	21.56
			1	99	21.95	21.85	21.92
		16QAM	50	0	20.67	20.53	20.81
		IOQAW	50	24	20.53	20.58	20.52
			50	49	20.53	20.39	20.52
			100	0	20.67	20.51	20.62





					Aver	age Power (dBr	m)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	20407	20525	20643
ETE Bana	(MHz)	Modulation	112 0120	TAB CHOOL	824.7MHz	836.5MHz	848.3MHz
			1	0	22.84	22.78	22.75
			1	2	22.79	22.72	22.74
			1	5			22.74
		ODOK			22.80	22.76	
		QPSK	3	0	21.85	21.88	21.84
			3	1	21.82	21.84	21.79
			3	2	21.83	21.91	21.86
5	1.4		6	0	21.91	21.88	21.89
			1	0	21.85	22.17	22.07
			1	2	21.94	22.06	21.67
			1	5	21.76	22.14	22.14
		16QAM	3	0	21.96	22.02	21.77
			3	1	22.02	21.76	21.75
			3	2	21.92	21.86	21.99
			6	0	20.85	20.83	20.91
					Aver	age Power (dBr	m)
LTE Band	Bandwidth	I MODITION	RB Size	RB Offset	20415	20525	20635
	(MHz)				825.5MHz	836.5MHz	847.5MHz
			1	0	22.98	22.95	22.88
			1	7	22.89	22.78	22.86
			1	14	22.91	22.86	22.91
		QPSK	8	0	21.97	21.95	21.97
		QI'OK	8	4	21.91	21.88	21.78
			8	7	21.95	21.90	21.78
			15	0	21.94	21.93	21.03
5	3	3					
			1	7	22.12	21.91	21.97
			1		22.11	22.02	22.10
		400 444	1	14	21.99	22.09	22.18
		16QAM	8	0	21.11	21.10	21.03
			8	4	21.13	21.04	20.85
			8	7	20.95	20.86	20.86
			15	0	20.99	20.95	20.95
	Bandwidth					age Power (dBi	, <i>'</i>
LTE Band	(MHz)	Modulation	RB Size	RB Offset	20425	20525	20625
	(1411 12)				826.5MHz	836.5MHz	846.5MHz
			1	0	22.89	22.88	22.80
			1	12	22.84	22.80	22.79
			1	24	22.93	22.79	22.85
		QPSK	12	0	21.85	21.80	21.80
			12	6	21.86	21.84	21.82
			12	11	21.85	21.80	21.78
			25	0	21.84	21.79	21.80
5	5		1	0	22.12	22.23	22.02
			1	12	22.11	21.98	21.75
			1	24	22.03	21.73	21.73
		16QAM	12	0	20.96	20.89	20.85
		IUQAW	12	6	20.82	20.77	20.90.
			12	11	20.73	20.77	20.90.
			25				
				0	20.88	20.79	20.75





	Bandwidth				Ave	erage Power (dE	3m)
LTE Band	(MHz)	Modulation	RB Size	RB Offset	20450	20525	20600
	(IVII IZ)				829MHz	836.5MHz	844MHz
			1	0	22.85	22.89	22.85
			1	24	22.80	22.83	22.75
			1	49	22.85	22.77	22.76
		QPSK	25	0	21.86	21.87	21.75
			25	12	21.77	21.80	21.76
			25	24	21.80	21.96	21.77
5	10		50	0	21.85	21.38	21.74
5	10		1	0	22.13	21.84	21.28
			1	24	22.03	21.75	21.66
			1	49	21.64	21.96	21.52
		16QAM	25	0	20.86	20.85	20.65
			25	12	20.86	20.86	20.70
			25	24	20.77	20.80	20.72
			50	0	20.80	20.81	20.73

	Danduidth				Ave	erage Power (dE	Bm)
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	20775	21100	21425
	(IVII IZ)				2502.5MHz	2535.0MHz	2567.5MHz
			1	0	21.25	21.38	21.58
			1	12	21.22	21.35	21.57
			1	24	21.25	21.36	21.65
		QPSK	12	0	20.53	20.28	20.52
			12	6	20.43	20.33	20.52
			12	11	20.43	20.31	20.54
7	5		25	0	20.32	20.31	20.54
,	5		1	0	20.53	20.45	20.82
			1	12	20.43	20.35	20.81
			1	24	20.58	20.53	20.56
		16QAM	12	0	19.17	19.36	19.47
			12	6	19.21	19.35	19.45
			12	11	19.36	19.31	19.45
			25	0	19.28	19.32	19.56
	Dondwidth	Modulation			Average Power (dBm)		
LTE Band	Bandwidth (MHz)		RB Size	RB Offset	20800	21100	21400
	(1011 12)				2505.0MHz	2535.0MHz	2565.0MHz
			1	0	21.34	21.42	21.56
			1	24	21.32	21.40	21.26
			1	49	21.40	21.50	21.72
		QPSK	25	0	20.32	20.35	20.58
			25	12	20.33	20.36	20.57
			25	24	20.32	20.37	20.57
7	10		50	0	20.31	20.34	20.51
′	10		1	0	20.53	20.58	20.78
			1	24	20.39	20.42	20.59
			1	49	20.72	20.50	20.85
		16QAM	25	0	19.34	19.35	19.35
			25	12	19.30	19.33	19.58
			25	24	19.41	19.43	19.63
			50	0	19.37	19.40	19.56





					Ave	erage Power (dE	3m)
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	20825	21100	21375
	(MHz)			1.2 0001	2507.5MHz	2535.0MHz	2562.5MHz
			1	0	21.43	21.42	21.68
			1	37	21.32	21.33	21.58
			1	74	21.48	21.50	21.74
		QPSK	36	0	20.39	20.40	20.62
			36	16	20.35	20.35	20.56
			36	35	20.37	20.42	20.61
_	45		75	0	20.36	20.38	20.59
7	15		1	0	20.75	20.35	20.98
			1	37	20.72	20.58	20.45
			1	74	20.65	20.41	20.58
		16QAM	36	0	19.47	19.40	19.67
			36	16	19.45	19.39	19.58
			36	35	19.38	19.48	19.68
			75	0	19.44	19.41	19.52
	Bandwidth	Modulation			Ave	erage Power (de	Bm)
LTE Band	(MHz)		RB Size	RB Offset	20850	21100	21350
	(1711 12)				2510.0MHz	2535.0MHz	2560.0MHz
			1	0	21.48	21.58	21.75
			1	49	21.28	21.37	21.58
			1	99	21.53	21.69	21.78
		QPSK	50	0	20.51	20.45	20.69
			50	24	20.40	20.40	20.64
			50	49	20.43	20.42	20.67
7	20		100	0	20.45	20.44	20.66
′	20		1	0	20.87	20.80	20.45
			1	49	20.70	20.67	20.85
			1	99	20.56	20.89	20.53
		16QAM	50	0	19.53	19.41	19.72
			50	24	19.58	19.36	19.62
			50	49	19.51	19.39	19.67
			100	0	19.50	19.47	19.66





LTEREN	Dondwidth		Dandwidth		Average Power (dBm)			
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	23017	23095	23175	
212 24114	(MHz)	modulation	112 0.20	112 011001	699.7MHz	707.5MHz	715.3MHz	
			1	0	22.65	22.75	22.86	
			1	2	22.65	22.75	22.78	
			1	5	22.74	22.89	22.86	
		QPSK	3	0	22.74	22.86	22.89	
		QFSIX	3	1	22.70	22.82	22.86	
			3	2	22.89	22.79	22.98	
			6	0	21.78	21.86	22.90	
12	1.4		1	0		21.75		
				2	21.69		21.89	
			1	5	21.58	22.02	22.12	
		400 4 14	1		21.49	21.75	21.79	
		16QAM	3	0	21.89	21.80	22.02	
			3	1	21.82	21.98	21.95	
			3	2	21.85	21.89	22.03	
			6	0	20.89	20.86	21.01	
	Bandwidth					age Power (dBr		
LTE Band	(MHz)	Modulation	RB Size	RB Offset	23025	23095	23165	
	,				700.5MHz	707.5MHz	714.5MHz	
			1	0	22.65	22.95	22.89	
			1	7	22.74	22.92	22.98	
			1	14	22.86	23.02	23.01	
		QPSK	8	0	21.85	21.95	22.05	
			8	4	21.88	21.93	22.01	
			8	7	21.87	22.01	22.06	
12	3		15	0	21.85	21.96	22.01	
12	9	3	1	0	21.80	22.13	21.98	
			1	7	21.86	21.79	22.12	
			1	14	21.45	21.99	21.95	
		16QAM	8	0	20.88	20.89	21.10	
			8	4	20.84	21.01	20.95	
			8	7	20.88	21.02	21.07	
			15	0	20.89	20.98	21.10	
	Dondwidth				Aver	age Power (dBr	n)	
LTE Band	Bandwidth	Modulation	RB Size	RB Offset	23035	23095	23155	
	(MHz)				701.5MHz	707.5MHz	713.5MHz	
			1	0	22.86	22.85	22.98	
			1	12	22.84	22.90	23.02	
			1	24	22.85	23.01	23.04	
		QPSK	12	0	21.67	21.85	21.95	
			12	6	21.83	21.91	22.02	
			12	11	21.89	21.95	21.99	
10	_		25	0	21.79	21.90	22.03	
12	5		1	0	21.73	22.09	21.95	
			1	12	21.89	21.88	22.23	
			1	24	21.76	22.31	22.18	
		16QAM	12	0	20.70	20.89	20.89	
			12	6	20.79	20.99	20.96	
			12	11	20.80	21.02	20.95	
			25	0	20.75	20.89	20.97	





	Bandwidth				Ave	Average Power (dBm)		
LTE Band	LTE Band (MHz)	Modulation	RB Size	RB Offset	23060	23095	23130	
	(1711 12)				704.0MHz	707.5MHz	711.0MHz	
			1	0	22.78	22.80	22.78	
			1	24	22.85	22.80	22.12	
			1	49	23.11	23.13	23.11	
		QPSK	25	0	21.70	21.89	21.98	
			25	12	21.85	21.93	22.04	
			25	24	21.86	22.02	22.09	
12	10		50	0	21.79	21.99	22.06	
12	10		1	0	21.78	22.04	22.15	
			1	24	22.05	22.28	22.05	
			1	49	22.12	22.18	22.16	
		16QAM	25	0	20.68	20.85	20.98	
			25	12	20.80	20.98	21.08	
			25	24	20.82	21.03	21.13	
			50	0	20.79	21.02	21.04	

	Bandwidth				Ave	erage Power (dE	22.95 23.01 22.86 23.00 22.84 22.89 21.89 21.90 21.98 22.10 22.02 21.98 21.95 21.95 21.68 21.92 22.29 22.08 22.23 22.11 20.89 20.99 21.01 20.83 20.99 20.79 20.98 20.95		
LTE Band	(MHz)	Modulation	RB Size	RB Offset	23755	23790	23825		
	(IVII IZ)				706.5MHz	710.0MHz	713.5MHz		
			1	0	22.87	22.95	23.01		
			1	12	22.78	22.86	23.00		
			1	24	22.96	22.84	22.89		
		QPSK	12	0	21.85	21.89	21.90		
			12	6	21.89	21.98	22.10		
			12	11	21.93	22.02	21.98		
17	5		25	0	21.86	21.95	21.95		
17	5		1	0	21.57	21.68	21.92		
			1	12	22.13	22.29	22.08		
			1	24	22.29	22.23	22.11		
		16QAM	12	0	20.98	20.89	20.99		
			12	6	20.75	21.01	20.83		
			12	11	20.86	20.99	20.79		
			25	0	20.94	20.98	20.95		
	Bandwidth	Modulation			Average Power (dBm)				
LTE Band	(MHz)		RB Size	RB Offset	23780	23790	23800		
	(IVII IZ)				709.0MHz	710.0MHz	711.0MHz		
			1	0	22.78	22.95	22.89		
			1	24	23.06	22.85	23.02		
			1	49	22.85	22.96	22.85		
		QPSK	25	0	21.96	21.95	21.95		
			25	12	21.93	21.96	21.99		
			25	24	21.94	21.95	21.97		
17	10		50	0	21.85	21.97	21.95		
1 ''	10		1	0	21.81	21.86	21.88		
			1	24	22.01	22.05	21.29		
			1	49	22.32	22.13	22.21		
		16QAM	25	0	20.95	20.95	20.94		
			25	12	20.89	21.01	20.98		
			25	24	20.97	20.99	20.95		
			50	0	20.95	20.94	20.92		





6.2 Peak-to-Average Ratio

Test Requirement:	Part 24.232 (d), Part 27.50(d)(5)
Test Method:	ANSI/TIA-603-D 2010
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	System simulator Splitter ATT EUT Spectrum Analyzer
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Set the CCDF option in spectrum analyzer, RBW ≥ OBW, Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data:

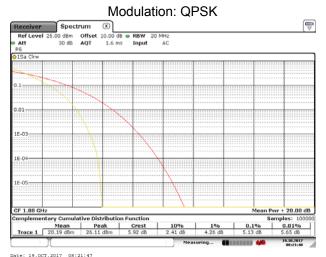
Measurement Data:				
Bandwidth	Modulation	RB Size	RB Offset	PAPR
	LTI	E Band 2 (Middle Chan	nel)	
20111-	QPSK	100	0	5.13
20MHz	16QAM	100	0	6.03
	LTI	E Band 4 (Middle Chan	nel)	
201411-	QPSK	100	0	5.39
20MHz	16QAM	100	0	6.26
	LTI	E Band 5 (Middle Chan	nel)	
408411-	QPSK	100	0	4.26
10MHz	16QAM	100	0	6.09
	LTI	E Band 7 (Middle Chan	nel)	
20111-	QPSK	100	0	4.38
20MHz	16QAM	100	0	6.14
	LTE	Band 12 (Middle Char	nnel)	
10MHz	QPSK	100	0	4.26
TUIVIEZ	16QAM	100	0	5.94
	LTE	Band 17 (Middle Char	nnel)	
10MHz	QPSK	50	0	4.20
ΙΟΙΝΙΠΖ	16QAM	50	0	5.94

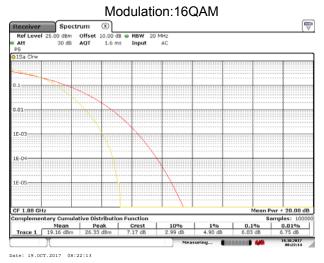




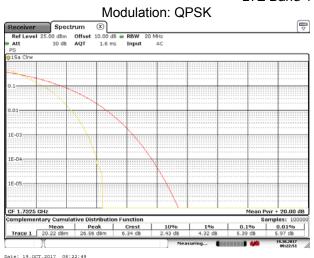
Test plots as below:

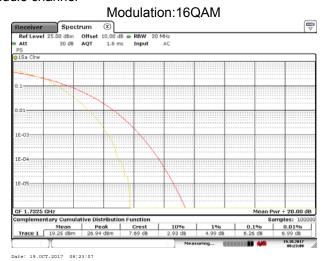
LTE Band 2 Middle channel



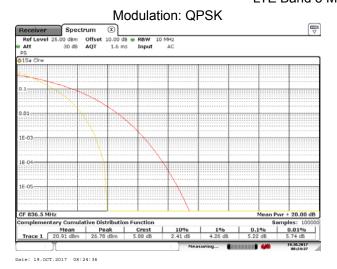


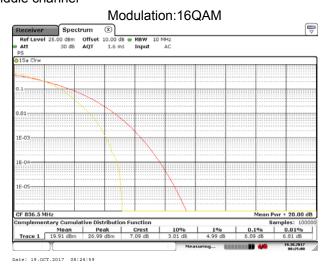
LTE Band 4 Middle channel





LTE Band 5 Middle channel



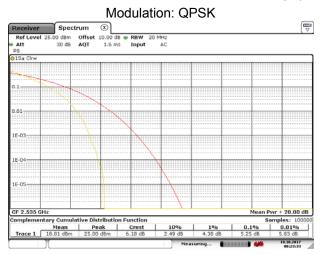


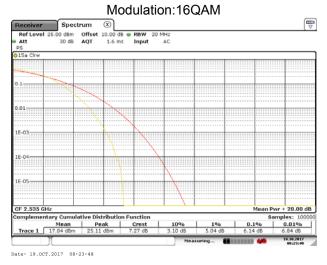
Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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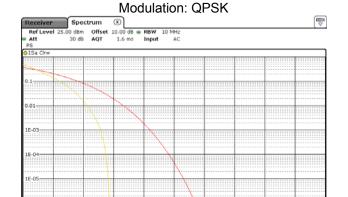
LTE Band 7 Middle channel

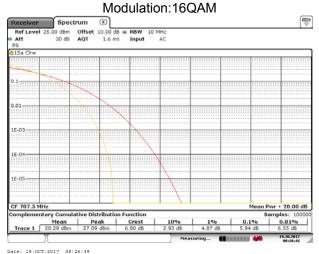




Date: 19.0CT.2017 08:23:33

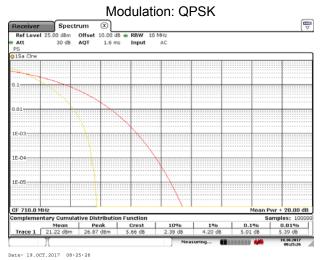
LTE Band 12 Middle channel

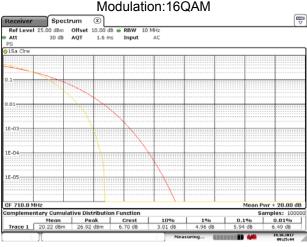




Date: 19.0CT.2017 08:26:19

LTE Band 17 Middle channel





Date: 19.0CT.2017 08:25:44





6.3 Occupy Bandwidth

0.5 Occupy Bandwidth	
Test Requirement:	FCC Part 22.917(b), Part 24.238(b), part 27.53(g), part 27.53(h), Part 27.53(m)
Test Method:	ANSI/TIA-603-D 2010
Test Setup:	
	System simulator Splitter ATT EUT Spectrum Analyzer
Test Procedure:	 The EUT's output RF connector was connected with a short cable to the spectrum analyzer RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data:

LTE Band 2 part:

Bandwidth	Channel	Frequency(MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
4 40411-	18607	1850.70	16QAM	1098	1260
			QPSK	1092	1284
	10000	1000.00	16QAM	1104	1254
1.4MHz	18900	1880.00	QPSK	1092	1272
	10102	1000.20	16QAM	1092	1248
	19193	1909.30	QPSK	1092	1284
	10615	1051 50	16QAM	2712	2988
	18615	1851.50	QPSK	2736	3024
3MHz	18900	1880.00	16QAM	2724	3012
SIVITZ	16900	1000.00	QPSK	2736	3024
	10105	1009.50	16QAM	2736	3000
	19185	1908.50	QPSK	2736	3036
	18625	1852.50	16QAM	4500	5000
	10025	1652.50	QPSK	4500	5100
5MHz	19000	1880.00	16QAM	4520	5020
SIVITZ	18900		QPSK	4520	4980
	19175	1907.50	16QAM	4520	4940
			QPSK	4520	5000
	18650	1855.00	16QAM	9040	10120
			QPSK	9120	10320
10MHz	18900	1880.00	16QAM	9120	10240
TOWN 12			QPSK	9120	10240
	19150	1905.00	16QAM	9040	10200
			QPSK	9120	10240
	18675	1857.50	16QAM	13560	14880
			QPSK	13560	15000
15MHz	18900	1880.00	16QAM	13620	14940
I JIVII IZ			QPSK	13560	15000
	19125	1902.50	16QAM	13560	14880
			QPSK	13560	15000
	18700	1860.00	16QAM	18000	19520
20MHz	10700	1000.00	QPSK	18000	19680
	18900	1880.00	16QAM	18000	19600
ZUIVII IZ	10900	1000.00	QPSK	18000	19520
	19100	1900.00	16QAM	17920	19600
			QPSK	18000	19680





LTE Band 4 part:

Bandwidth	Channel	Frequency(MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
	19957	1710.7	16QAM	1098	1248
	19937	17 10.7	QPSK	1098	1272
1.4MHz	20175	1732.5	16QAM	1092	1248
1.41011 12	20173	1732.3	QPSK	1092	1278
	20393	1754.3	16QAM	1092	1254
	20393	1754.5	QPSK	1098	1266
	19965	1711.5	16QAM	2712	3024
	19905	1711.5	QPSK	2736	3048
3MHz	20175	1732.5	16QAM	2712	2988
SIVITZ	20175	1732.5	QPSK	2736	3036
	20205	1750 F	16QAM	2736	3012
	20385	1750.5	QPSK	2736	3012
	40075	4740 F	16QAM	4540	4960
	19975	1712.5	QPSK	4520	5020
5 1 1 1 -	00475	4700.5	16QAM	4500	4980
5MHz	20175	1732.5	QPSK	4540	4960
	00075	1752.5	16QAM	4520	4960
	20375		QPSK	4520	5040
	20000	1715.0	16QAM	9120	10200
			QPSK	9120	10280
400411-	00475	1732.5	16QAM	9120	10080
10MHz	20175		QPSK	9080	10280
	20250	1750.0	16QAM	9080	10160
	20350		QPSK	9120	10240
	20025	4747 F	16QAM	13560	14820
		1717.5	QPSK	13560	15000
4=5411	20175	1732.5	16QAM	13560	14880
15MHz			QPSK	13560	15060
	20325	1747.5	16QAM	13560	14700
			QPSK	13500	14880
20MHz	00050	4700.0	16QAM	18080	19440
	20050	1720.0	QPSK	18000	19680
	20175	1732.5	16QAM	17920	19440
			QPSK	18000	19520
	20300	1745.0	16QAM	17920	19360
			QPSK	18000	19440





LTE Band 5 part:

EUT Mode	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dB EBW (kHz)
		,	16QAM	1092	1254
	20407	824.70	QPSK	1092	1266
1.4MHz	22525	836.50	16QAM	1092	1260
1.4101□∠	20525		QPSK	1098	1278
	00040	848.30	16QAM	1098	1260
	20643		QPSK	1098	1278
	00445		16QAM	2712	2988
	20415	825.50	QPSK	2736	1278 1260 1278 2988 3024 3012 3036 3000 3036 4960 4980 5000
3MHz	00505	836.50	16QAM	2712	3012
SIVITZ	20525		QPSK	2736	3036
	20635	847.50	16QAM	2724	3000
			QPSK	2724	3036
	00405	222.52	16QAM	4480	4960
	20425	826.50	QPSK	4520	4980
5MHz	00505	000.50	16QAM	4500	5000
SIVITZ	20525	836.50	QPSK	4520	5000
	20625	846.50	16QAM	4500	4980
			QPSK	4500	5020
10MHz			16QAM	9080	9960
	20450	829.00	QPSK	9160	1260 1278 2988 3024 3012 3036 3000 3036 4960 4980 5000 4980 5000 4980 5020
		16QAM 9080 QPSK 9120	16QAM	9080	10080
	20525		10280		
	00000	044.00	16QAM	9080	10080
	20600	844.00	QPSK	9080	10200





LTE Band 7 part:

Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dB EBW (kHz)
	20775	` '	16QAM	4520	4960
	20775	2502.5	16QAM 4520 4960 QPSK 4520 5000 16QAM 4520 5020 QPSK 4520 4980 16QAM 4520 5020 QPSK 4500 4980 16QAM 9080 10200 QPSK 9080 10280 16QAM 9040 10120 QPSK 9120 10200 16QAM 9120 10080 QPSK 9160 10280 16QAM 13560 14880 QPSK 13560 14880 QPSK 13560 14820 16QAM 13500 14820 QPSK 13560 15060 16QAM 17920 19440 QPSK 18000 19440 QPSK 18000 19440 QPSK 17920 19360 QPSK 17920 19440	5000	
ENALI-	21100	21100 2535.0	16QAM	4520	5020
5MHz	21100		QPSK	4520	4980
	21425	0E67 E	16QAM	4520	5020
	21425	2567.5	QPSK	4500	4980
	20800	0505.0	16QAM	9080	10200
	20000	2505.0	QPSK	9080	4960 5000 5020 4980 5020 4980 10200 10280 10120 10280 10280 10280 14880 14880 14880 14820 14820 15060 19440 19360
10MHz	21100	2535.0	16QAM	9040	10120
TUIVITZ	21100		QPSK	9120	10200
	21400	2565.0	16QAM	9120	10080
	21400		QPSK	9160	10280
	20825	2507.5	16QAM	13560	14880
	20025	2507.5	QPSK	13560	14880
15MHz	21100	2535.0	16QAM	13560	14880
13WI1Z	21100	2555.0	QPSK	13560	10280 14880 14880 14880 14820 14820
	21375	2562.5	16QAM	13500	14820
	21373		QPSK	13560	15060
20MHz	20850	2510.0	16QAM	17920	19440
	20000	2010.0	QPSK	18000	4960 5000 5020 4980 5020 4980 10200 10280 10120 10200 10080 10280 14880 14880 14880 14820 14820 15060 19440 19360
	21100	2525.0	16QAM	17920	19360
	21100	2535.0	QPSK	17920	19440
	04050	2560.0	16QAM	18000	19440
	21350	2500.0	QPSK	18000	19520





LTE Band 12 part:

EUT Mode	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dB EBW (kHz)
			16QAM	1092	1248
	23017	699.70	QPSK	1092	` '
1.4MHz	00005		16QAM	1086	1242
1.4101□∠	23095	707.50	QPSK	1098	1284
	00475		16QAM	1104	1254
	23175	715.30	QPSK	1098	1248 1272 1242 1284 1254 1272 2964 3012 3012 3012 2988 3060 4920 5000 4920 5000 4960 10040 10200 10040 10360 10040
	00005		16QAM	2724	2964
	23025	700.50	QPSK	2724	3012
3MHz	00005		16QAM	2724	3012
SIVITZ	23095	707.50	QPSK	2736	3012
	23165	714.50	16QAM	2712	2988
			QPSK	2748	3060
	00005	504.50	16QAM	4520	4920
	23035	701.50	QPSK	4500	1248 1272 1242 1284 1254 1272 2964 3012 3012 3012 2988 3060 4920 5000 4920 5000 4920 5000 4960 10040 10200 10040 10360 10040
5MHz	00005	707.50	16QAM	4520	4920
SIVII IZ	23095	707.50	QPSK	4520	1242 1284 1254 1272 2964 3012 3012 3012 2988 3060 4920 5000 4920 5000 4960 10040 10200 10360 10040
	23155	713.50	16QAM	4520	5000
			QPSK	4520	4960
10MHz			16QAM	9120	10040
	23060	704.00	QPSK	9120	10200
			16QAM	9120	10040
	23095	707.50	QPSK	9160	10360
	00400	744.00	16QAM	9040	10040
	23130	711.00	QPSK	9080	10320

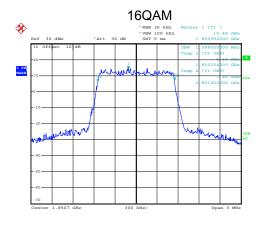
LTE Band 17 part:

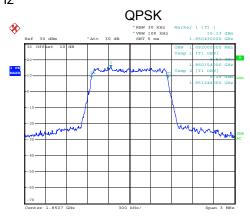
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dB EBW (kHz)
	23755	706.5	16QAM	4500	4860
	23755	700.5	QPSK	4520	5020
5MHz	23790	710.0	16QAM	4500	4980
	23790	7 10.0	QPSK	4520	5020
	23825	713.5	16QAM	4500	5020
			QPSK	4520	5100
10MHz	23780	709.0	16QAM	9080	10080
	23760	709.0	QPSK	9120	4860 5020 4980 5020 5020 5100
	23790	710.0	16QAM	9080	10200
	23790	7 10.0	QPSK	9160	10280
	00000	711.0	16QAM 9040	10160	
	23800	711.0	QPSK	9080	10160



Test plot as follows: LTE Band 2 part

99% Occupy bandwidth BW: 1.4MHz



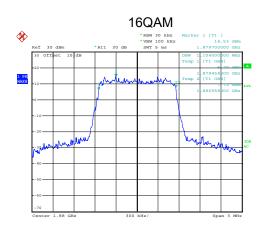


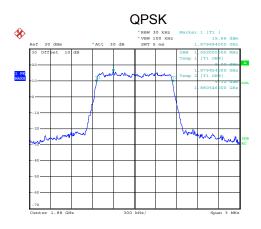
Date: 18.0CT.2017 08:34:21

Date: 18.0CT.2017 08:34:14

Date: 18.0CT.2017 08:34:45

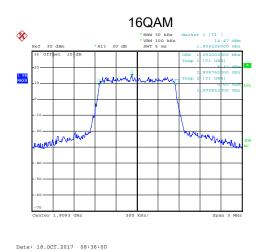
Lowest channel

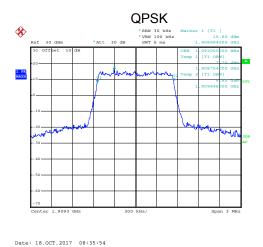




Date: 18.0CT.2017 08:34:51

Middle channel





ot obonnol

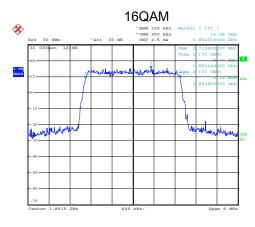
Page 36 of 300

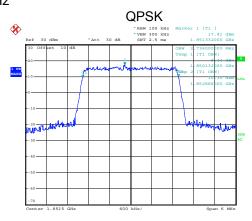
Project No.: CCISE1710006

Highest channel



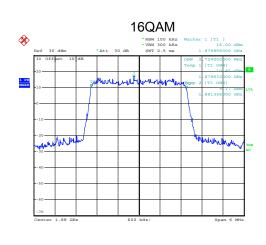
99% Occupy bandwidth BW: 3MHz

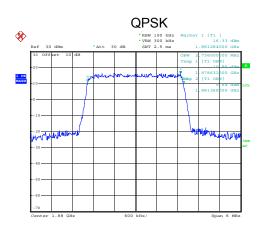




Date: 18.0CT.2017 08:36:5

Lowest channel

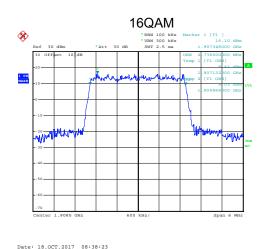


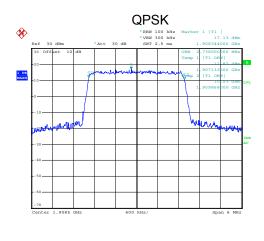


Date: 18.0CT.2017 08:37:56

Middle channel

Date: 18.OCT.2017 08:37:51



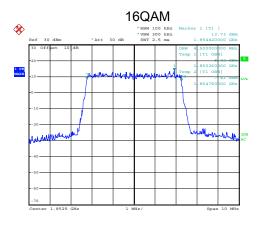


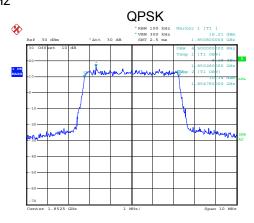
Date: 18.0CT.2017 08:38:18

Highest channel



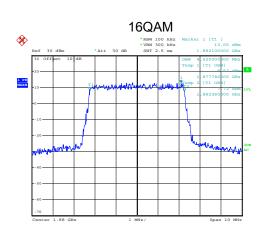
99% Occupy bandwidth BW: 5MHz

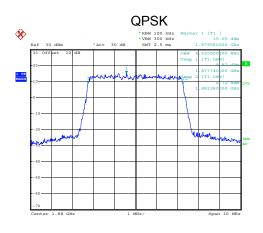




: 18.OCT.2017 08:39:46 Date: 18.OCT.2017 08:39

Lowest channel

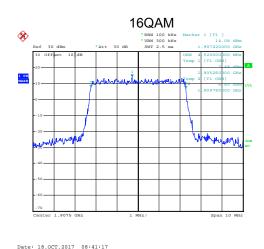


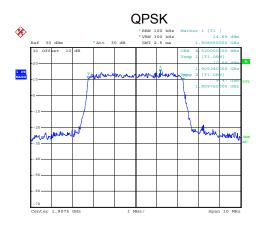


Date: 18.0CT.2017 08:40:12

Middle channel

Date: 18.0CT.2017 08:40:08



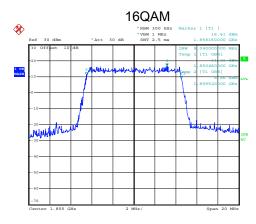


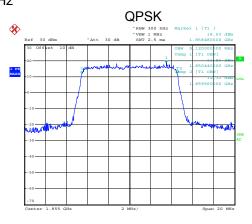
Date: 18.0CT.2017 08:41:11

Highest channel



99% Occupy bandwidth BW: 10MHz

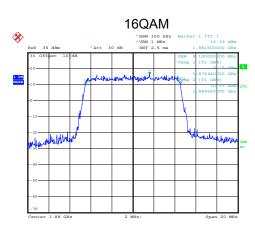


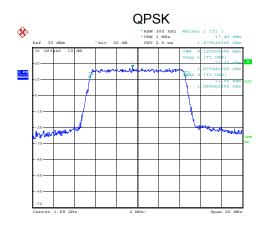


Date: 18.0CT.2017 08:42:21

Date: 18.OCT.2017 08:42:14

Lowest channel

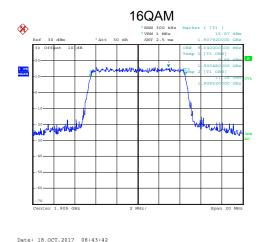


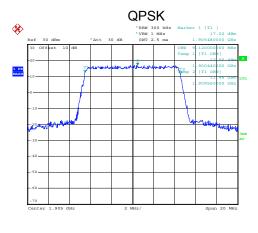


Date: 18.0CT.2017 08:43:15

Date: 18.0CT.2017 08:43:12

Middle channel



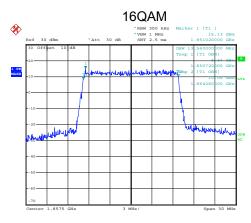


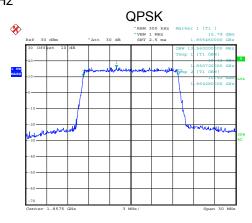
Date: 18.0CT.2017 08:43:37

Highest channel



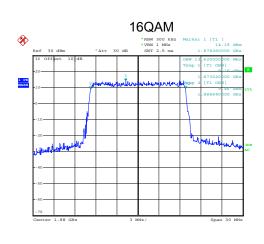
99% Occupy bandwidth BW: 15MHz

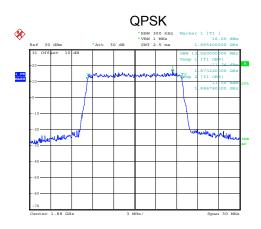




18.OCT.2017 08:44:59 Date: 18.OCT.2017 08:44

Lowest channel

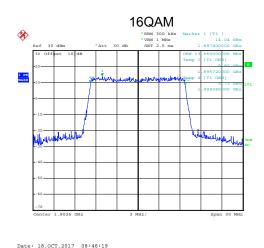


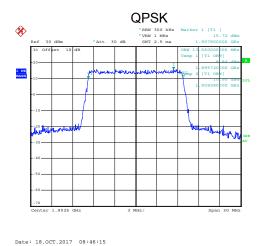


Date: 18.0CT.2017 08:45:18

Middle channel

Date: 18.0CT.2017 08:45:14

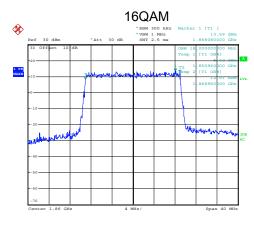


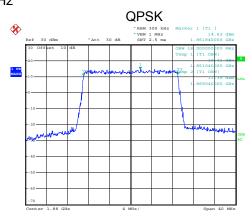


Highest channel



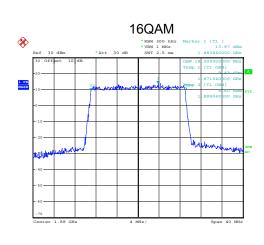
99% Occupy bandwidth BW: 20MHz

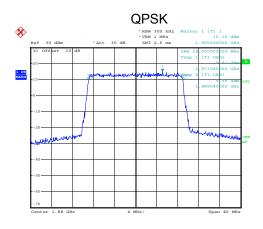




Date: 18.OCT.2017 08:47:

Lowest channel

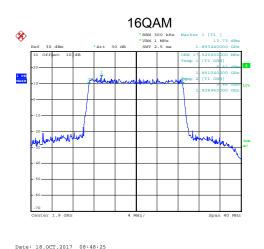


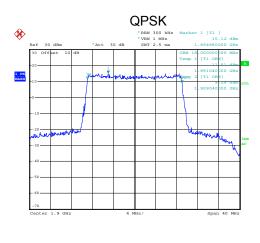


Date: 18.0CT.2017 08:48:04

Middle channel

Date: 18.0CT.2017 08:47:59



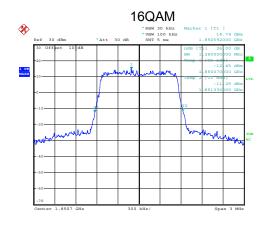


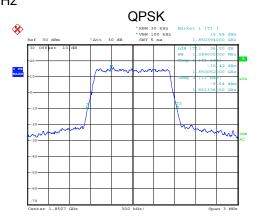
Date: 18.0CT.2017 08:48:21

Highest channel



-26dBc bandwidth BW: 1.4MHz



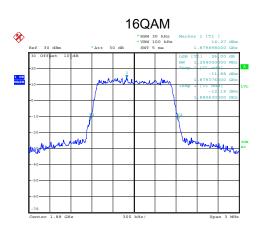


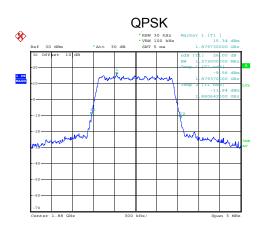
Date: 18.0CT.2017 08:34:04

Date: 18.0CT.2017 08:33:53

Date: 18.0CT.2017 08:35:00

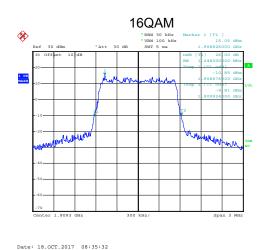
Lowest channel

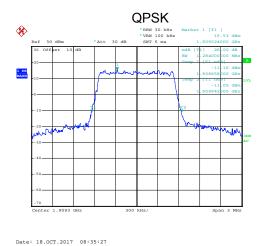




Date: 18.0CT.2017 08:35:05

Middle channel



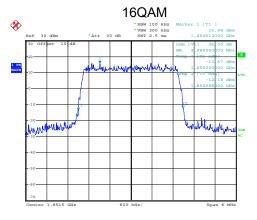


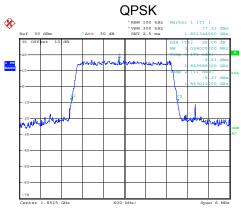
Highest channel

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



-26dBc bandwidth BW: 3MHz



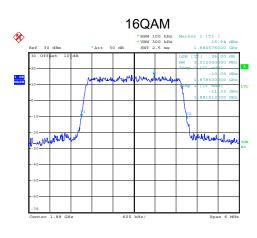


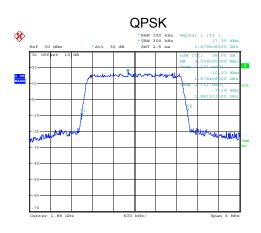
Date: 18.0CT.2017 08:37:08

Date: 18.0CT.2017 08:37:04

Date: 18.OCT.2017 08:37:36

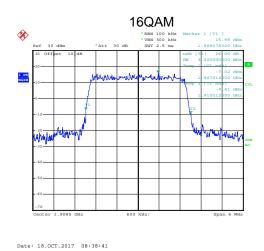
Lowest channel

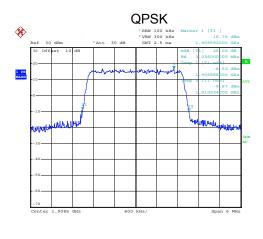




Date: 18.0CT.2017 08:37:41

Middle channel



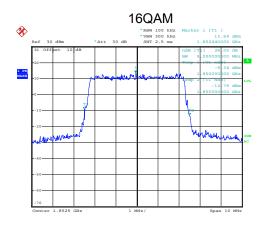


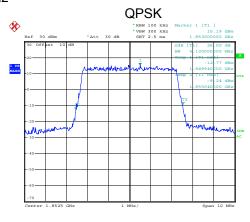
Date: 18.0CT.2017 08:38:37

Highest channel



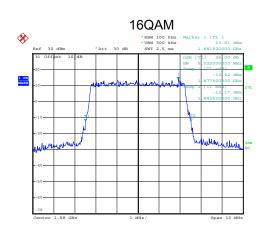
-26dBc bandwidth BW: 5MHz

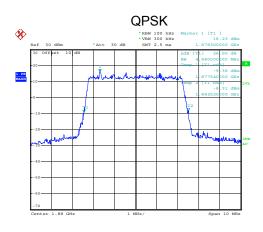




: 18.0CT.2017 08:39:33 Date: 18.0CT.

Lowest channel



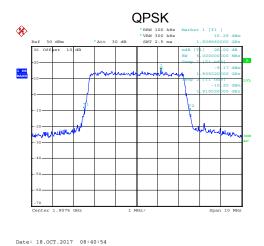


Date: 18.0CT.2017 08:40:28

Middle channel

Date: 18.OCT.2017 08:40:22

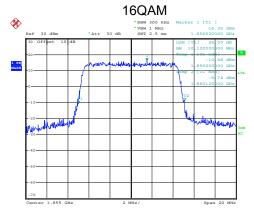


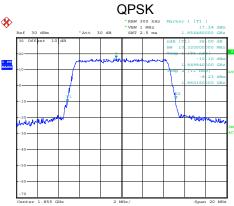


Highest channel



-26dBc bandwidth BW: 10MHz



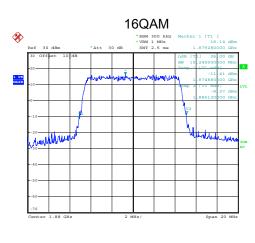


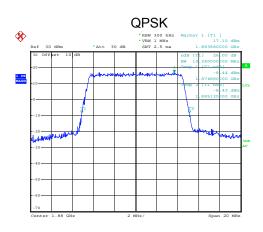
te: 18.OCT.2017 08:42:37

Date: 18.OCT.2017 08:42:33

Date: 18.OCT.2017 08:42:56

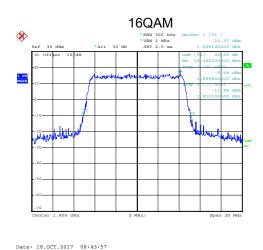
Lowest channel

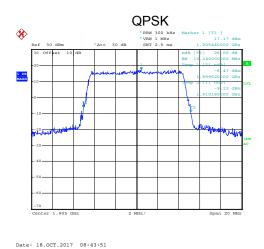




Date: 18.0CT.2017 08:43:00

Middle channel

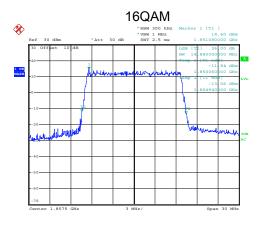


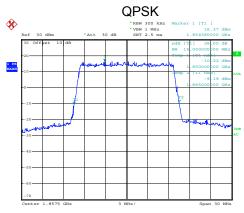


Highest channel



-26dBc bandwidth BW: 15MHz



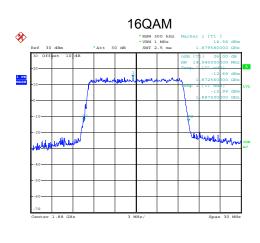


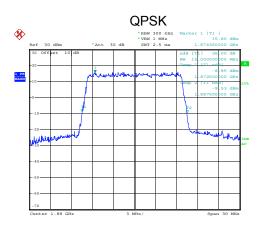
Date: 18.0CT.2017 08:44:46

Date: 18.0CT.2017 08:44:42

Date: 18.OCT.2017 08:45:29

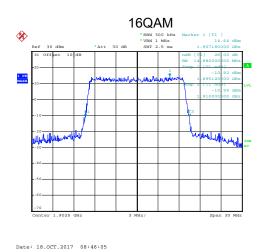
Lowest channel

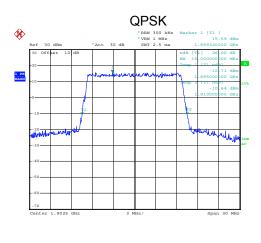




Date: 18.0CT.2017 08:45:34

Middle channel



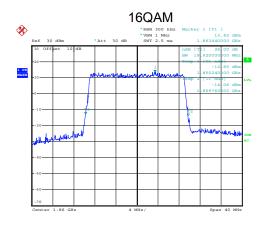


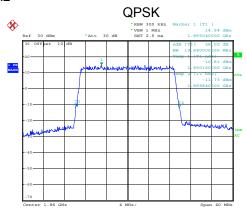
Date: 18.0CT.2017 08:46:00

Highest channel



-26dBc bandwidth BW: 20MHz



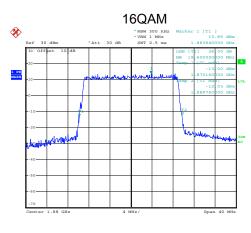


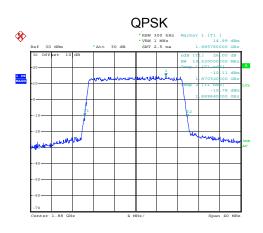
Date: 18.0CT.2017 08:47:24

Date: 18.OCT.2017 08:47:18

Date: 18.0CT.2017 08:47:43

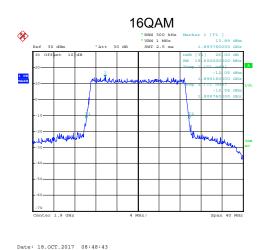
Lowest channel

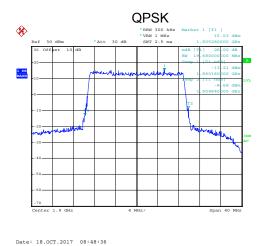




Date: 18.0CT.2017 08:47:49

Middle channel



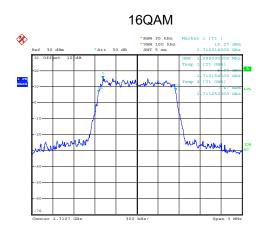


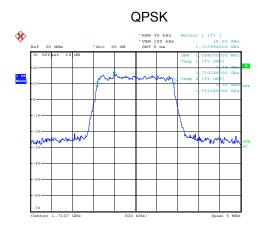
Highest channel



LTE Band 4 part

99% Occupy bandwidth BW: 1.4MHz

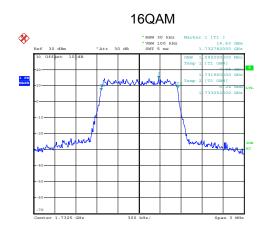


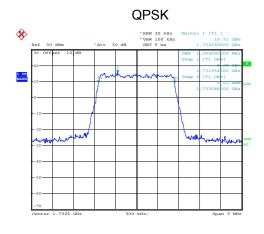


Date: 18.0CT.2017 08:50:03

Date: 18.0CT.2017 08:49:56

Lowest channel

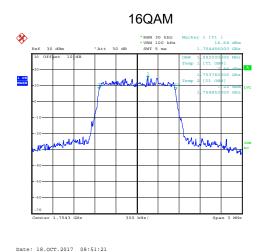


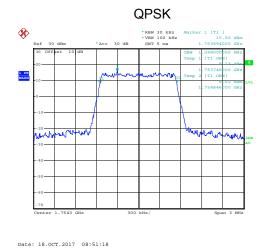


Date: 18.0CT.2017 08:50:27

Date: 18.OCT.2017 08:50:22

Middle channel

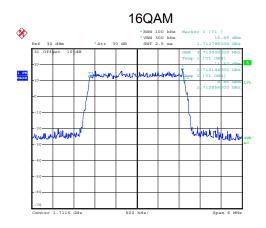


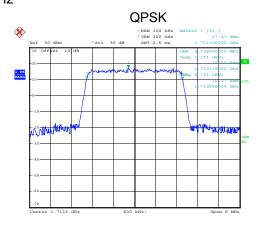


Highest channel



99% Occupy bandwidth BW: 3MHz



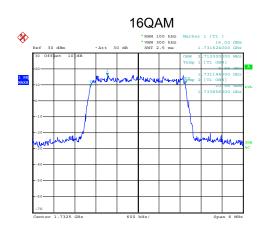


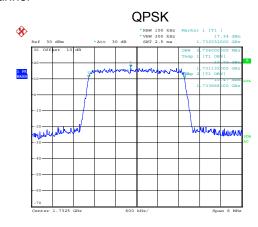
Date: 18.0CT.2017 08:52:10

Date: 18.0CT.2017 08:52:05

Date: 18.0CT.2017 08:53:02

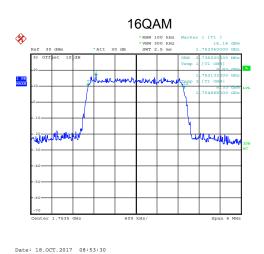
Lowest channel

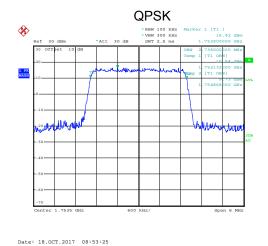




Date: 18.0CT.2017 08:53:06

Middle channel





Highest channel

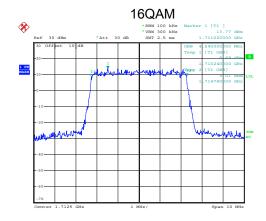


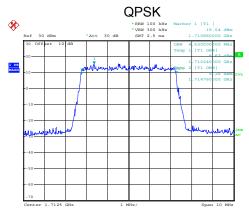




99% Occupy bandwidth

BW: 5MHz



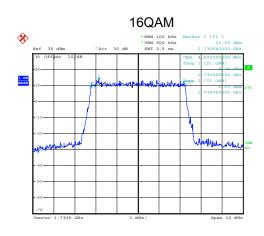


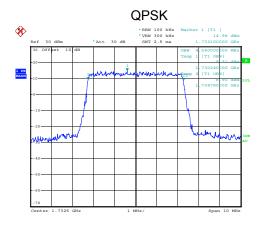
Date: 18.0CT.2017 08:54:53

Date: 18.0CT.2017 08:54:49

Date: 18.0CT.2017 08:55:16

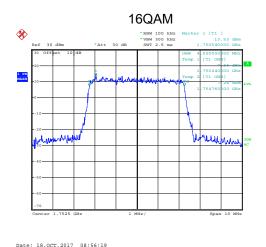
Lowest channel

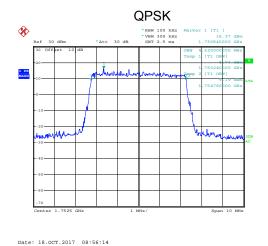




Date: 18.0CT.2017 08:55:20

Middle channel

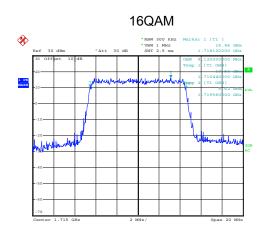


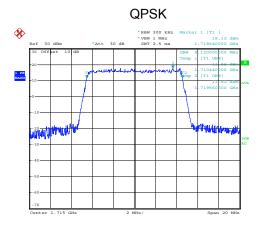


Highest channel



99% Occupy bandwidth BW: 10MHz

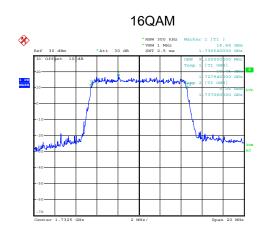


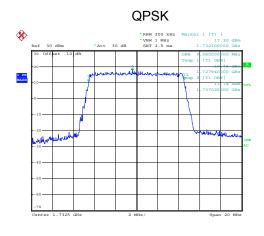


Date: 18.0CT.2017 08:57:06

Date: 18.OCT.2017 08:57:02

Lowest channel





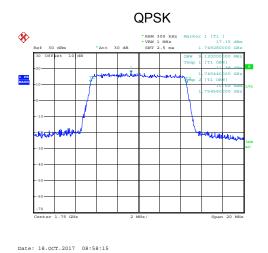
Date: 18.0CT.2017 08:57:57

Date: 18.0CT.2017 08:58:19

Date: 18.0CT.2017 08:57:52

Middle channel

**RBM 300 Mdz Marker 1 [71] **VBM 1 Mdz 16.59 dBm **Att 30 dB SWT 2.5 ma 1.745880000 GHs **Boot 10 dB Tomp 1 [71 GBt] **Page 1 [71 GBt] **Page 1 [71 GBt] **Page 1 [71 GBt] **Page 2 [71 GBt] **Page 2 [71 GBt] **Page 3 [71 GBt] **Page 4 [71 GBt] **



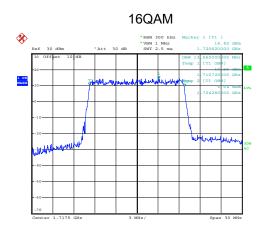
Highest channel

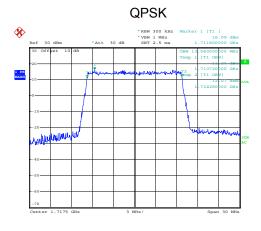






99% Occupy bandwidth BW: 15MHz



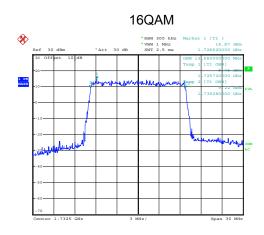


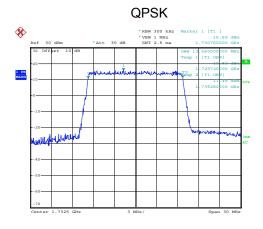
Date: 18.0CT.2017 08:59:32

Date: 18.OCT.2017 08:59:28

Date: 18.0CT.2017 08:59:54

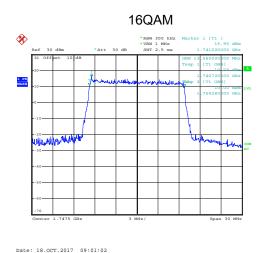
Lowest channel





Date: 18.0CT.2017 08:59:58

Middle channel

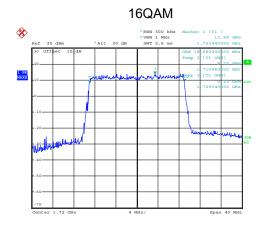


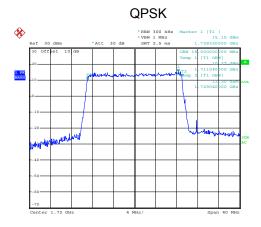


Highest channel



99% Occupy bandwidth BW: 20MHz

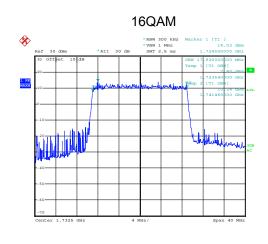


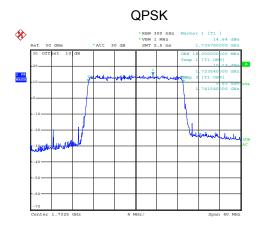


Date: 18.0CT.2017 09:01:49

Date: 18.0CT.2017 09:01:41

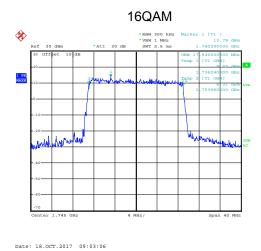
Lowest channel

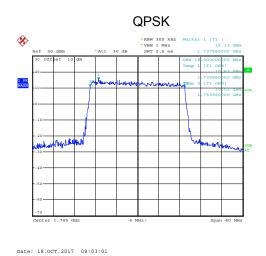




Date: 18.0CT.2017 09:02:42

Middle channel

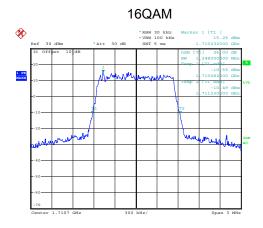


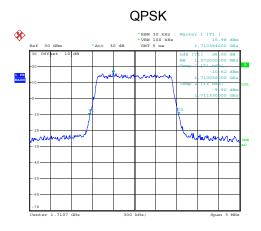


Highest channel



-26dBc bandwidth BW: 1.4MHz

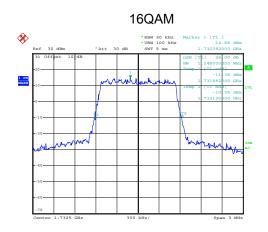


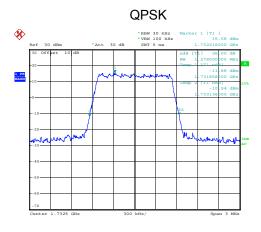


Date: 18.0CT.2017 08:49:46

Date: 18.OCT.2017 08:49:41

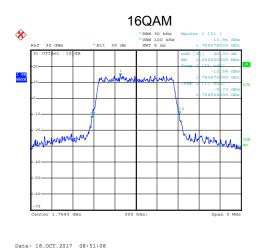
Lowest channel

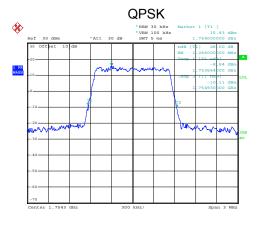




Date: 18.0CT.2017 08:50:42

Middle channel





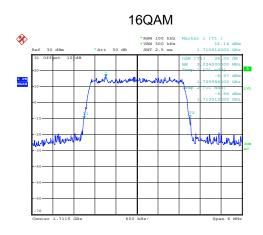
Date: 18.0CT.2017 08:51:03

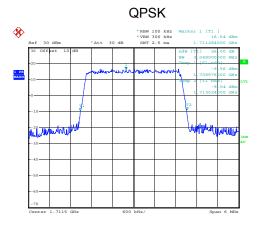
Date: 18.0CT.2017 08:50:37

Highest channel



-26dBc bandwidth BW: 3MHz



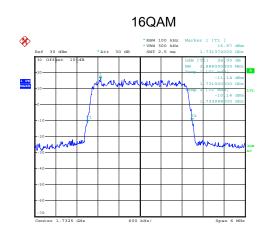


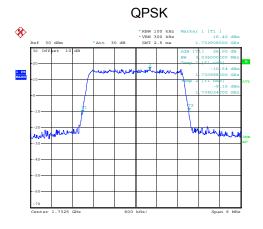
Date: 18.0CT.2017 08:52:28

Date: 18.0CT.2017 08:52:22

Date: 18.0CT.2017 08:52:48

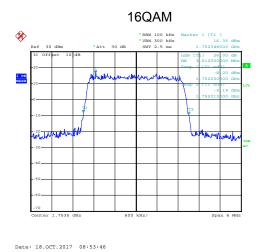
Lowest channel





Date: 18.0CT.2017 08:52:52

Middle channel

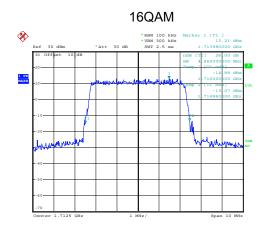


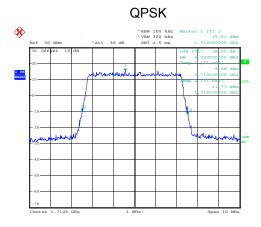


Highest channel



-26dBc bandwidth BW: 5MHz

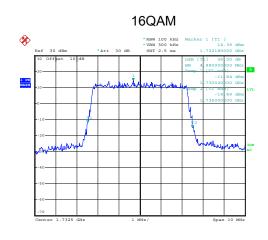


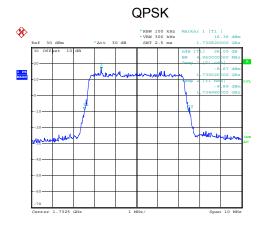


Date: 18.0CT.2017 08:54:38

Date: 18.OCT.2017 08:54:34

Lowest channel

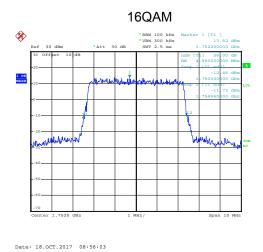




Date: 18.0CT.2017 08:55:37

Middle channel

Date: 18.0CT.2017 08:55:31

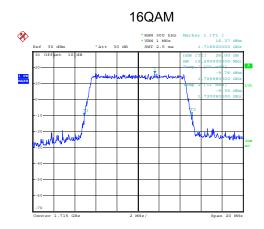


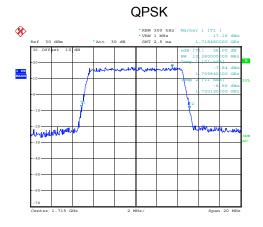


Highest channel



-26dBc bandwidth BW: 10MHz

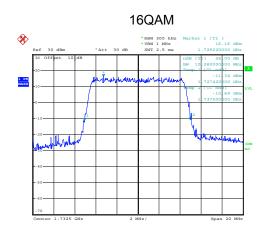


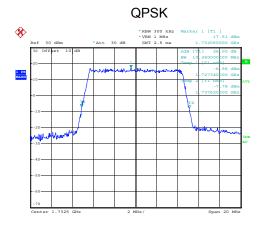


Date: 18.0CT.2017 08:57:21

Date: 18.OCT.2017 08:57:16

Lowest channel

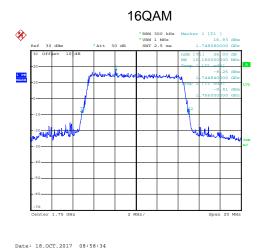




Date: 18.0CT.2017 08:57:43

Middle channel

Date: 18.0CT.2017 08:57:38

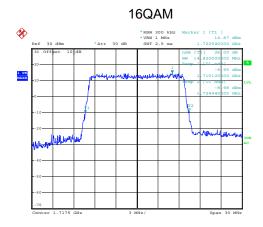


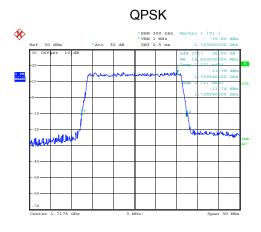






-26dBc bandwidth BW: 15MHz

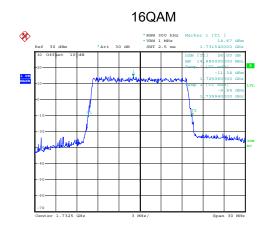


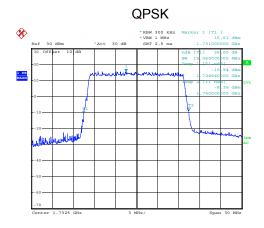


Date: 18.0CT.2017 08:59:16

Date: 18.0CT.2017 08:59:10

Lowest channel

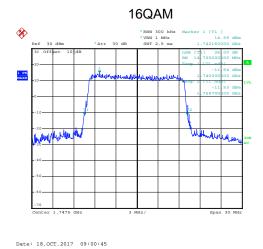


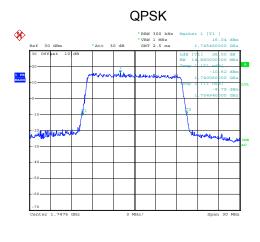


Date: 18.0CT.2017 09:00:12

Date: 18.0CT.2017 09:00:08

Middle channel





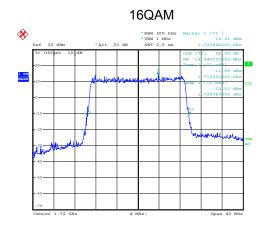
Date: 18.0CT.2017 09:00:41

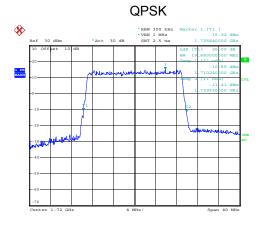
Highest channel





-26dBc bandwidth BW: 20MHz

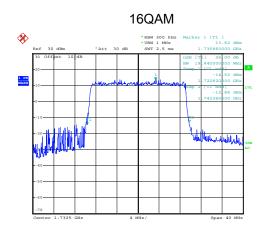


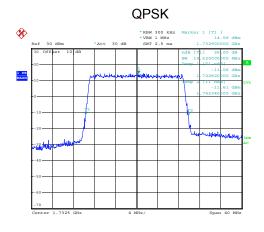


Date: 18.0CT.2017 09:02:04

Date: 18.0CT.2017 09:01:59

Lowest channel





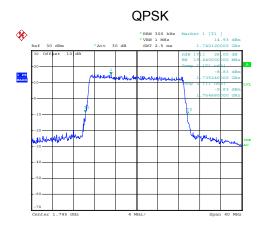
Date: 18.0CT.2017 09:02:29

Date: 18.0CT.2017 09:03:20

Date: 18.OCT.2017 09:02:21

Middle channel

RBM 300 NMs** **Narker** 1 [T]] **VBM** 3 Marker** 1 [T]] **VBM** 4 M



Date: 18.0CT.2017 09:03:15

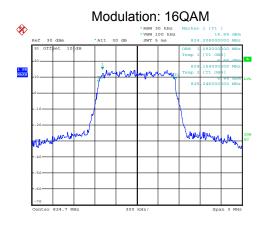
Highest channel

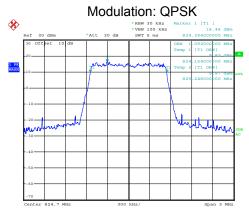


LTE Band 5 part

Test Item:99% Occupy bandwidth

BW: 1.4MHz



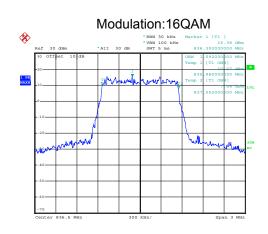


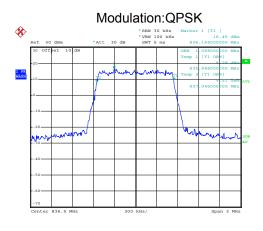
Date: 18.0CT.2017 09:16:34

Date: 18.0CT.2017 09:16:29

Date: 18.OCT.2017 09:17:21

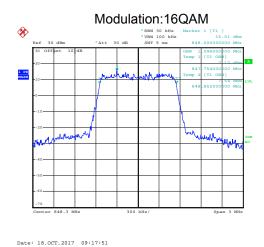
Lowest channel

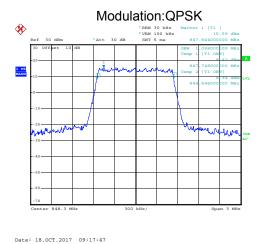




Date: 18.0CT.2017 09:17:26

Middle channel



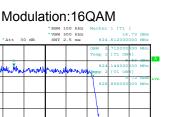


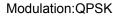
Highest channel

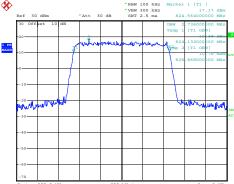


%

Test Item:99% Occupy bandwidth BW: 3MHz



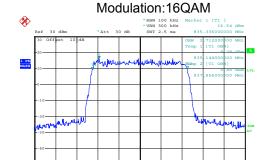




Date: 18.0CT.2017 09:19:03

Date: 18.0CT.2017 09:18:58

Lowest channel



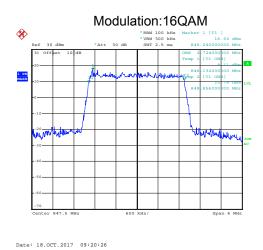
Modulation:QPSK

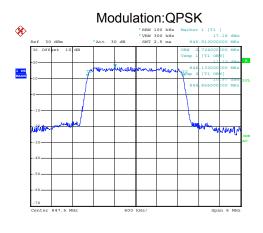


Date: 18.0CT.2017 09:19:31

Date: 18.0CT.2017 09:19:26

Middle channel



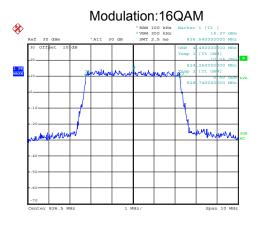


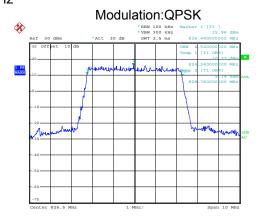
Date: 18.0CT.2017 09:20:21

Highest channel



Test Item:99% Occupy bandwidth BW: 5MHz



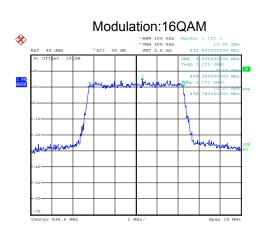


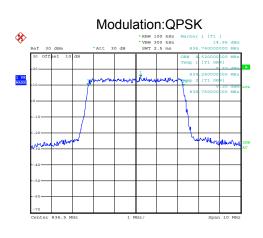
Date: 18.0CT.2017 09:21:16

Date: 18.0CT.2017 09:21:10

Date: 18.0CT.2017 09:22:05

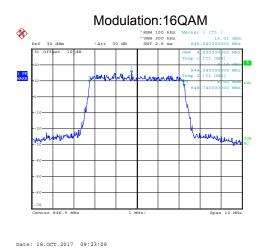
Lowest channel

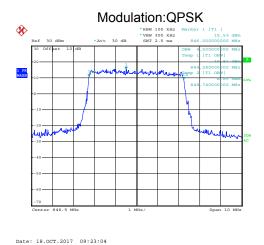




Date: 18.0CT.2017 09:22:11

Middle channel

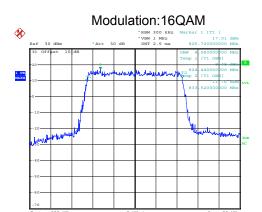


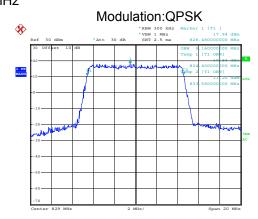


Highest channel



Test Item:99% Occupy bandwidth BW: 10MHz



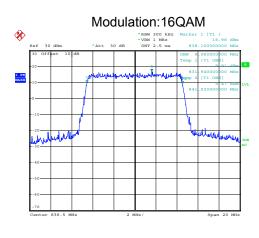


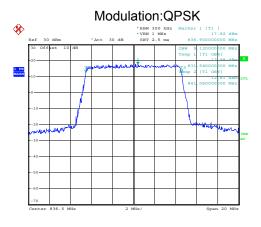
Date: 18.0CT.2017 09:24:19

Date: 18.OCT.2017 09:24:16

Date: 18.0CT.2017 09:24:38

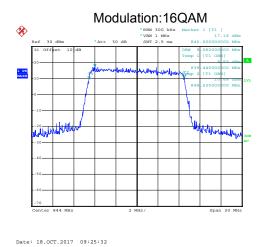
Lowest channel

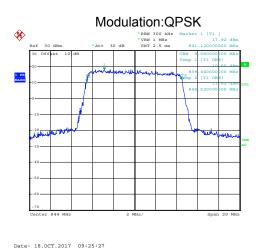




Date: 18.OCT.2017 09:24:42

Middle channel





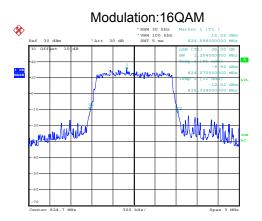
. . .

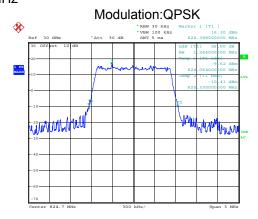
Highest channel





Test Item:-26dBc bandwidth BW: 1.4MHz



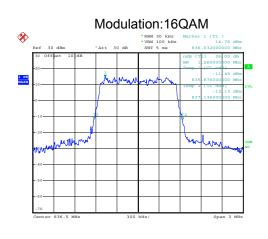


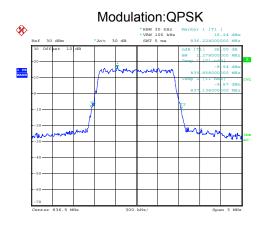
Date: 18.0CT.2017 09:16:47

Date: 18.0CT.2017 09:16:42

Date: 18.0CT.2017 09:17:05

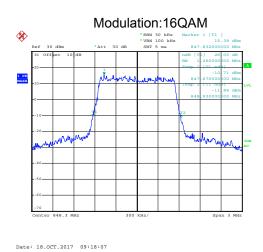
Lowest channel

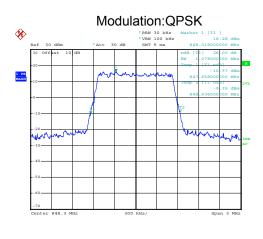




Date: 18.0CT.2017 09:17:10

Middle channel





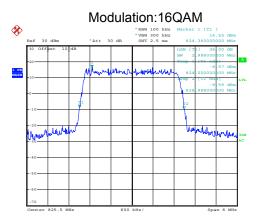
Date: 18.OCT.2017 09:18:02

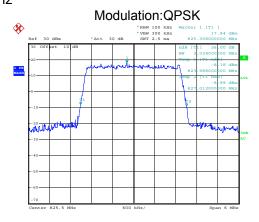
Highest channel





Test Item:-26dBc bandwidth BW: 3MHz



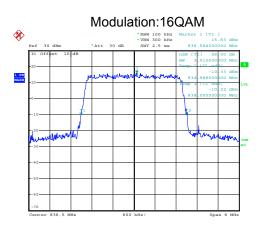


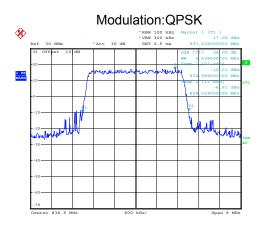
Date: 18.0CT.2017 09:18:48

Date: 18.0CT.2017 09:18:44

Date: 18.0CT.2017 09:19:41

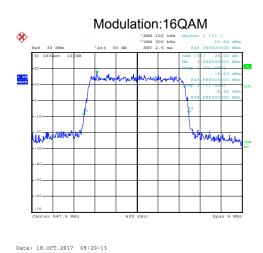
Lowest channel

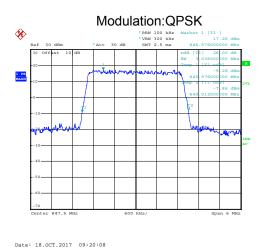




Date: 18.0CT.2017 09:19:46

Middle channel



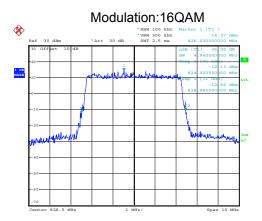


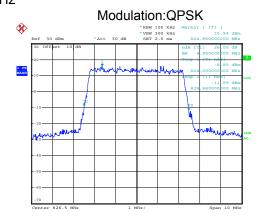
Highest channel





Test Item:-26dBc bandwidth BW: 5MHz



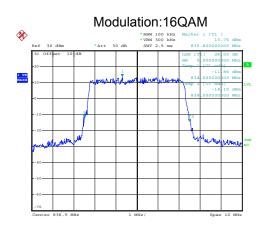


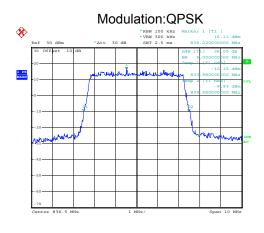
Date: 18.0CT.2017 09:21:31

Date: 18.OCT.2017 09:21:26

Date: 18.0CT.2017 09:21:50

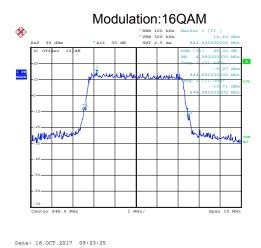
Lowest channel

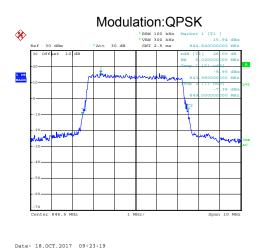




Date: 18.0CT.2017 09:21:55

Middle channel



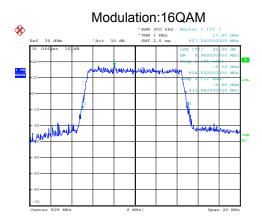


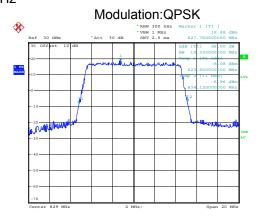
. .

Highest channel



Test Item:-26dBc bandwidth BW: 10MHz



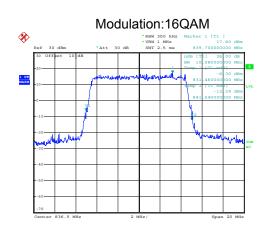


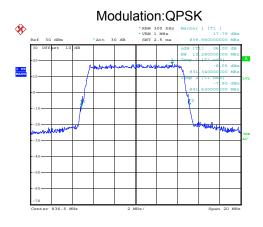
Date: 18.0CT.2017 09:24:06

Date: 18.0CT.2017 09:24:01

Date: 18.0CT.2017 09:24:50

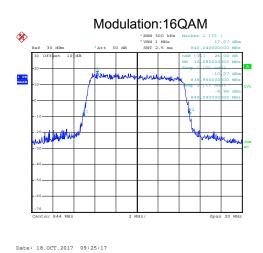
Lowest channel

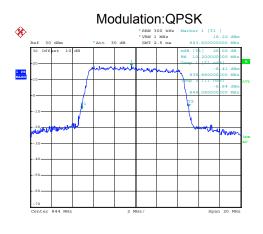




Date: 18.0CT.2017 09:24:54

Middle channel





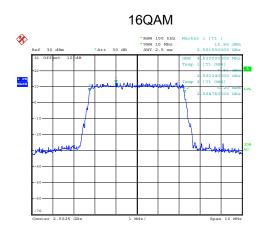
Date: 18.OCT.2017 09:25:13

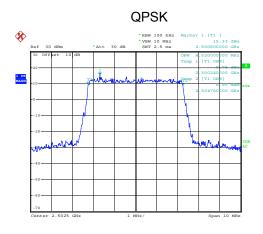
Highest channel



LTE-Band 7 part

99% Occupy bandwidth BW: 5MHz

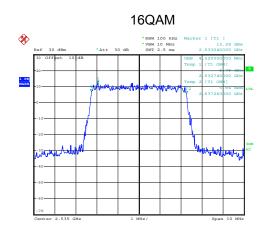


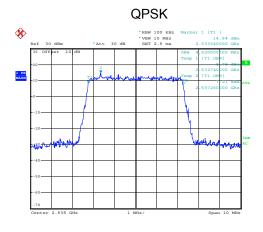


Date: 18.0CT.2017 09:05:03

Date: 18.0CT.2017 09:04:57

Lowest channel

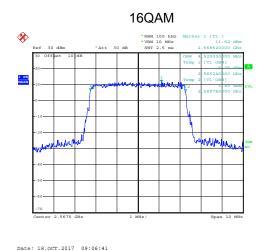


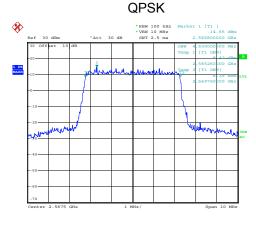


Date: 18.0CT.2017 09:05:28

Middle channel

Date: 18.0CT.2017 09:05:24



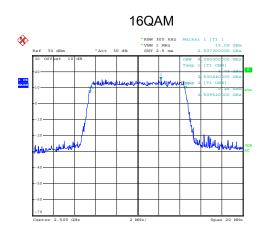


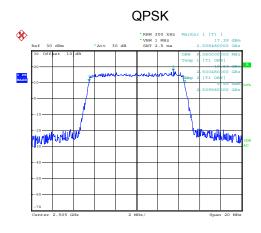
Date: 18.0CT.2017 09:06:36

Highest channel



99% Occupy bandwidth BW: 10MHz



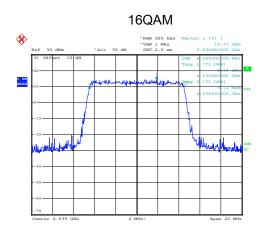


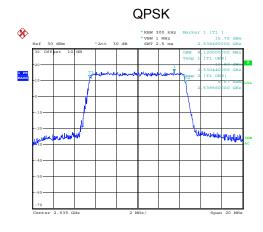
Date: 18.OCT.2017 09:07:24

Date: 18.0CT.2017 09:07:20

Date: 18.0CT.2017 09:08:20

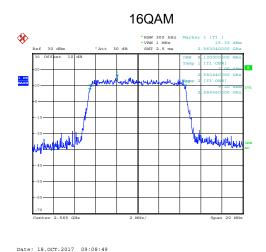
Lowest channel

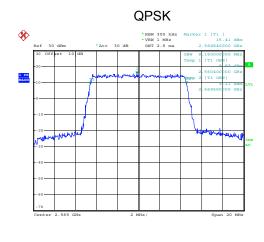




Date: 18.0CT.2017 09:08:24

Middle channel





Date: 18.OCT.2017 09:08:45

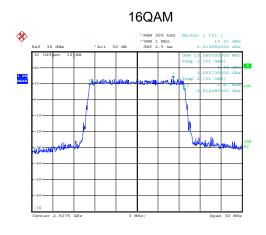
Highest channel

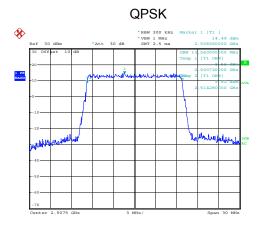






99% Occupy bandwidth BW: 15MHz

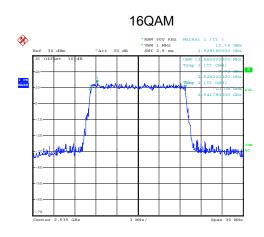


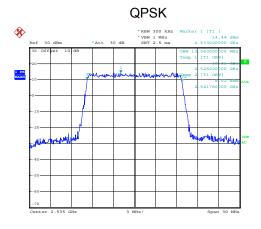


Date: 18.0CT.2017 09:09:57

Date: 18.OCT.2017 09:09:53

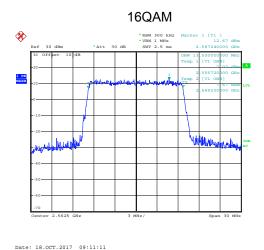
Lowest channel

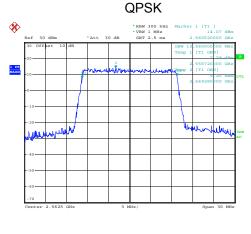




Date: 18.0CT.2017 09:10:20

Middle channel





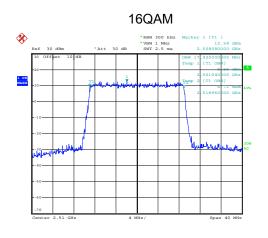
Date: 18.0CT.2017 09:11:07

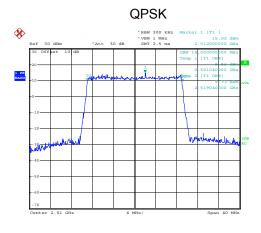
Date: 18.0CT.2017 09:10:15

Highest channel



99% Occupy bandwidth BW: 20MHz

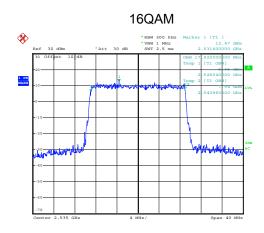


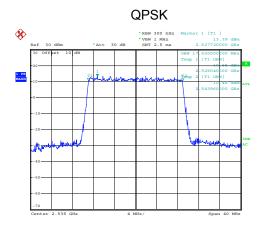


Date: 18.0CT.2017 09:11:53

Date: 18.0CT.2017 09:11:48

Lowest channel

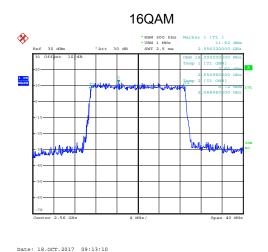


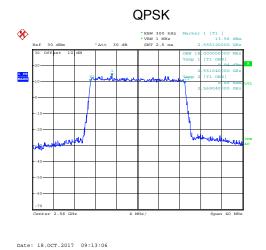


Date: 18.0CT.2017 09:12:48

Middle channel

Date: 18.0CT.2017 09:12:42

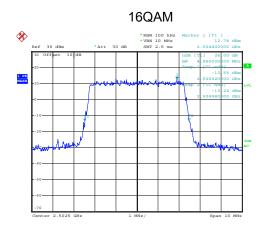


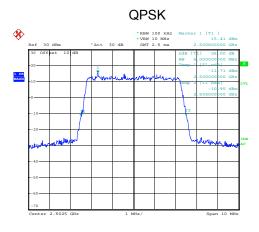


Highest channel



-26dBc bandwidth BW: 5MHz



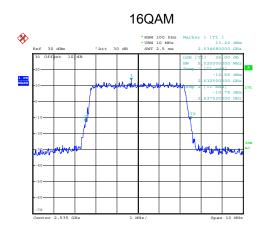


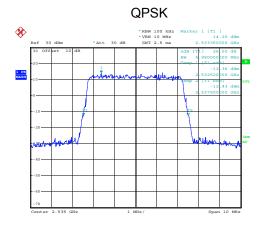
Date: 18.0CT.2017 09:04:47

Date: 18.0CT.2017 09:04:41

Date: 18.0CT.2017 09:05:40

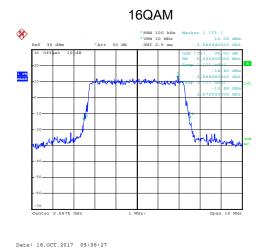
Lowest channel

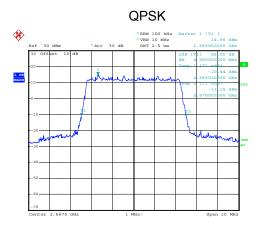




Date: 18.0CT.2017 09:05:46

Middle channel





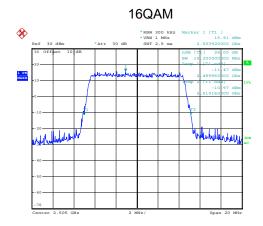
Date: 18.0CT.2017 09:06:21

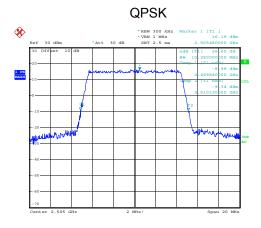
Highest channel





-26dBc bandwidth BW: 10MHz

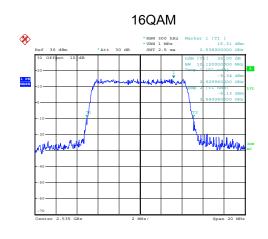


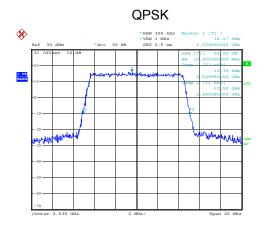


Date: 18.0CT.2017 09:07:45

Date: 18.0CT.2017 09:07:38

Lowest channel

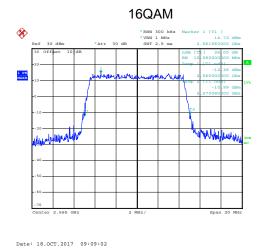


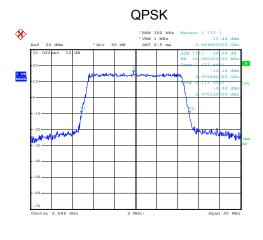


Date: 18.0CT.2017 09:08:10

Date: 18.OCT.2017 09:08:04

Middle channel





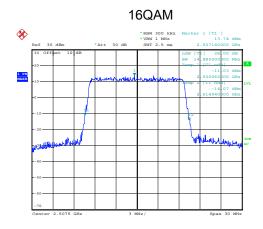
Date: 18.0CT.2017 09:08:58

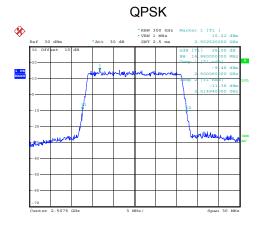
Highest channel





-26dBc bandwidth BW: 15MHz

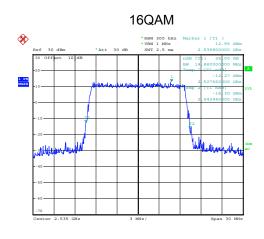


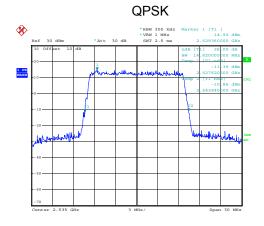


Date: 18.0CT.2017 09:09:43

Date: 18.0CT.2017 09:09:38

Lowest channel



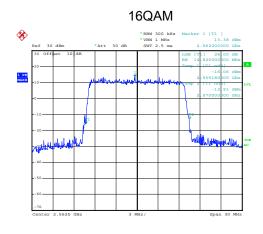


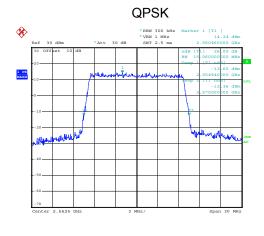
Date: 18.0CT.2017 09:10:33

Date: 18.0CT.2017 09:10:57

Middle channel

Date: 18.OCT.2017 09:10:29





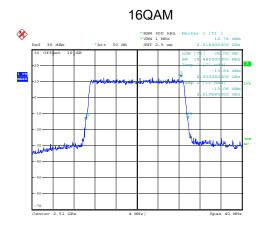
Date: 18.0CT.2017 09:10:53

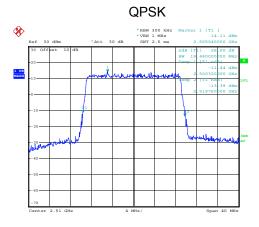
Highest channel





-26dBc bandwidth BW: 20MHz

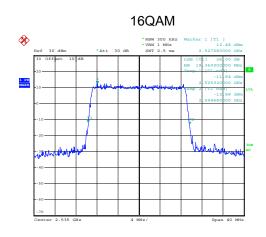


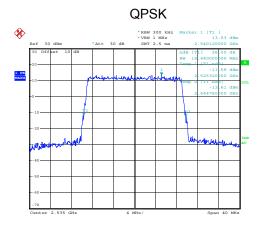


Date: 18.0CT.2017 09:12:06

Date: 18.0CT.2017 09:12:02

Lowest channel



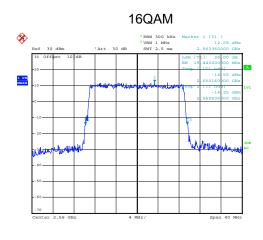


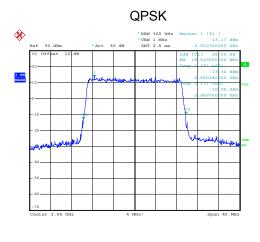
Date: 18.0CT.2017 09:12:27

Date: 18.0CT.2017 09:13:25

Date: 18.0CT.2017 09:12:21

Middle channel





Date: 18.0CT.2017 09:13:20

Highest channel

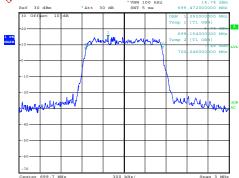


LTE-Band 12 part

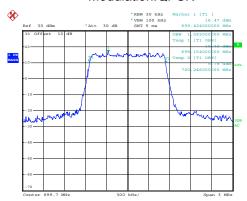
Test Item:99% Occupy bandwidth

BW: 1.4MHz

Modulation:16QAM



Modulation:QPSK



Date: 18.OCT.2017 09:26:16

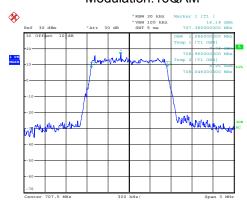
Date: 18.0CT.2017 09:26:21

Date: 18.OCT.2017 09:27:14

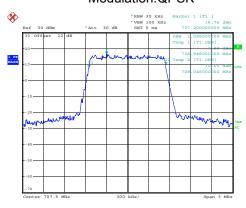
Date: 18.OCT.2017 09:27:36

Lowest channel

Modulation:16QAM



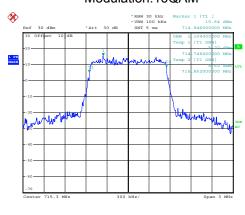
Modulation:QPSK



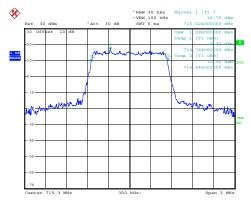
Date: 18.0CT.2017 09:27:09

Middle channel

Modulation:16QAM



Modulation:QPSK



Date: 18.0CT.2017 09:27:32

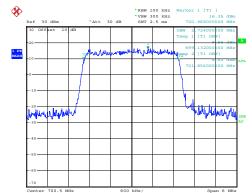
Highest channel



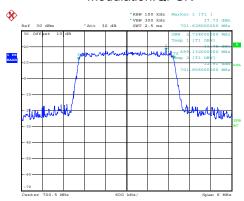
Test Item:99% Occupy bandwidth

BW: 3MHz

Modulation:16QAM



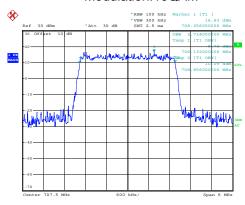
Modulation:QPSK



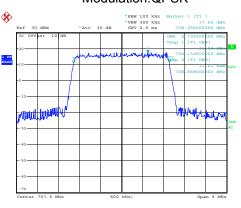
Date: 18.0CT.2017 09:28:45 Date: 18.0CT.2017 09:28:40

Lowest channel

Modulation:16QAM



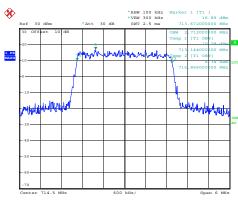
Modulation:QPSK



Date: 18.0CT.2017 09:29:07 Date: 18.0CT.2017 09:29:03

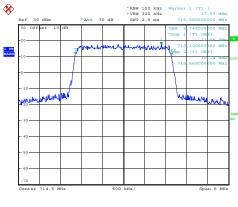
Middle channel

Modulation:16QAM



Date: 18.OCT.2017 09:30:56

Modulation:QPSK



Date: 18.OCT.2017 09:30:52

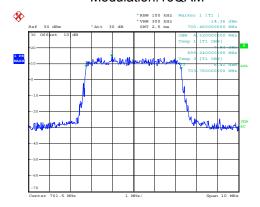
Highest channel



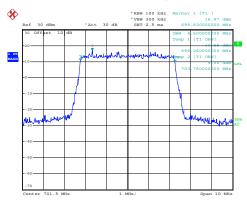


Test Item:99% Occupy bandwidth BW: 5MHz

Modulation:16QAM



Modulation:QPSK

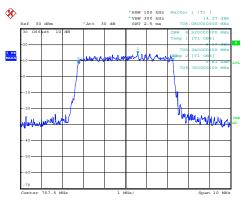


Date: 18.OCT.2017 09:31:35

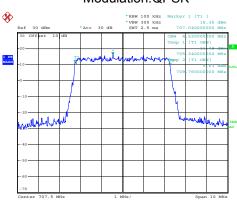
Date: 18.0CT.2017 09:31:30

Lowest channel

Modulation:16QAM



Modulation:QPSK



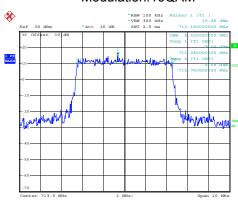
Date: 18.0CT.2017 09:32:34

Date: 18.0CT.2017 09:33:00

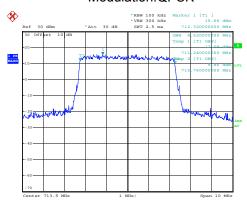
Date: 18.0CT.2017 09:32:29

Middle channel

Modulation:16QAM



Modulation:QPSK



Date: 18.OCT.2017 09:32:56

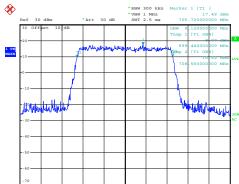
Highest channel



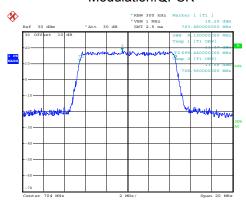
Test Item:99% Occupy bandwidth

BW: 10MHz

Modulation:16QAM



Modulation:QPSK

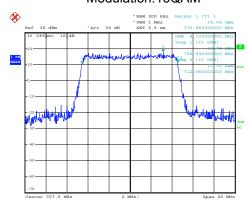


Date: 18.0CT.2017 09:34:26

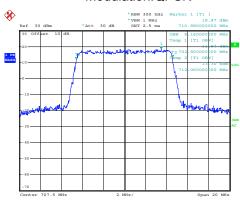
Date: 18.0CT.2017 09:34:32

Lowest channel

Modulation:16QAM



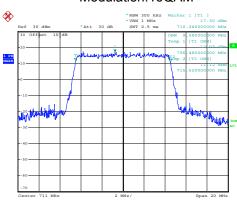
Modulation:QPSK



Date: 18.0CT.2017 09:35:04 Date: 18.0CT.2017 09:34:59

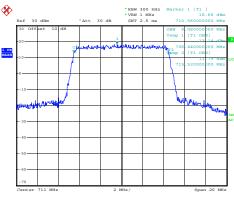
Middle channel

Modulation:16QAM



Date: 18.OCT.2017 09:36:19

Modulation:QPSK



Date: 18.0CT.2017 09:36:14

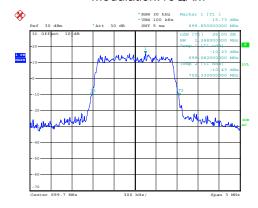
Highest channel



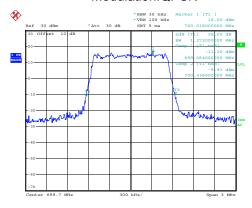


Test Item:-26dBc bandwidth BW: 1.4MHz

Modulation:16QAM



Modulation:QPSK

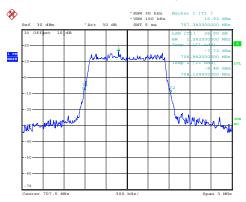


Date: 18.OCT.2017 09:26:35

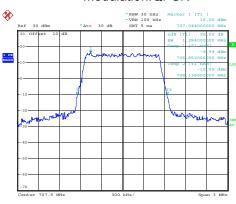
Date: 18.0CT.2017 09:26:30

Lowest channel

Modulation:16QAM



Modulation:QPSK



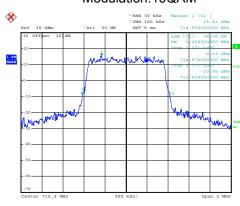
Date: 18.OCT.2017 09:26:58

Date: 18.0CT.2017 09:27:50

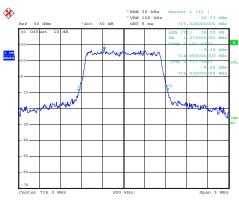
Date: 18.OCT.2017 09:26:53

Middle channel

Modulation:16QAM



Modulation:QPSK



Date: 18.OCT.2017 09:27:44

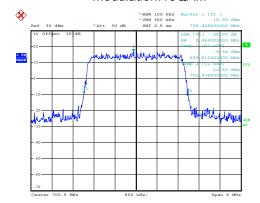
Highest channel



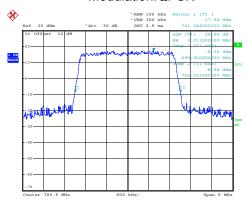


Test Item:-26dBc bandwidth BW: 3MHz

Modulation:16QAM



Modulation:QPSK

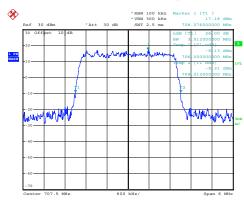


Date: 18.OCT.2017 09:28:32

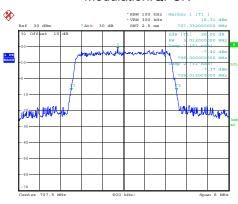
Date: 18.0CT.2017 09:28:25

Lowest channel

Modulation:16QAM



Modulation:QPSK



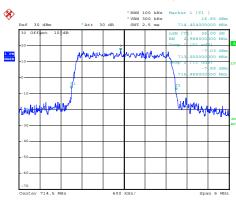
Date: 18.OCT.2017 09:29:22

Date: 18.0CT.2017 09:30:42

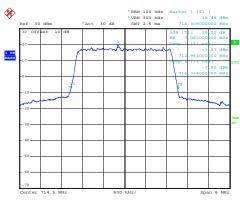
Date: 18.0CT.2017 09:29:16

Middle channel

Modulation:16QAM



Modulation:QPSK



Date: 18.OCT.2017 09:30:38

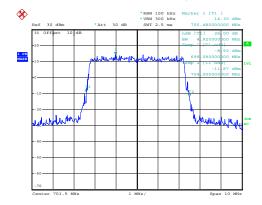
Highest channel



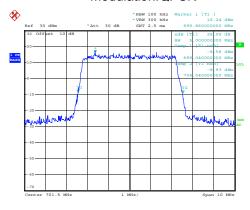


Test Item:-26dBc bandwidth BW: 5MHz

Modulation:16QAM



Modulation:QPSK

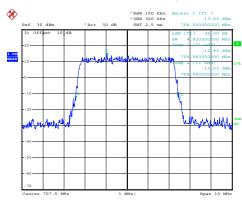


Date: 18.0CT.2017 09:31:53

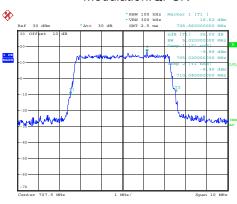
Date: 18.OCT.2017 09:31:48

Lowest channel

Modulation:16QAM



Modulation:QPSK



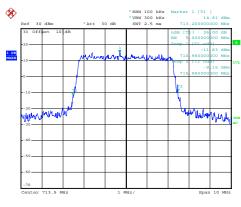
Date: 18.0CT.2017 09:32:19

Date: 18.0CT.2017 09:33:15

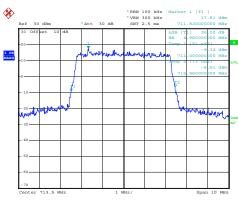
Date: 18.OCT.2017 09:32:14

Middle channel

Modulation:16QAM



Modulation:QPSK



Date: 18.0CT.2017 09:33:10

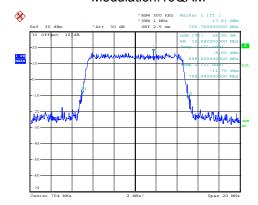
Highest channel



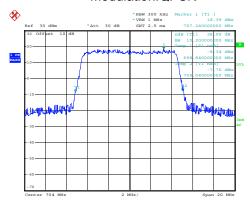


Test Item:-26dBc bandwidth BW: 10MHz

Modulation:16QAM



Modulation:QPSK

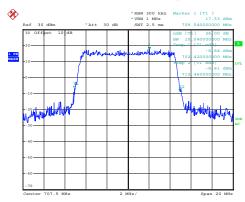


Date: 18.0CT.2017 09:34:15

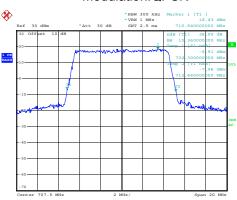
Date: 18.0CT.2017 09:34:10

Lowest channel

Modulation:16QAM



Modulation:QPSK



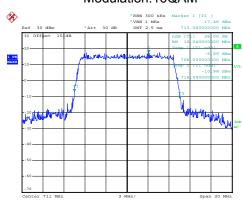
Date: 18.OCT.2017 09:35:39

Date: 18.0CT.2017 09:36:03

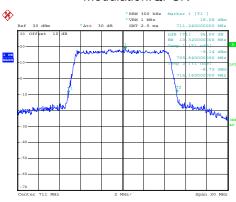
Date: 18.OCT.2017 09:35:34

Middle channel

Modulation:16QAM



Modulation:QPSK



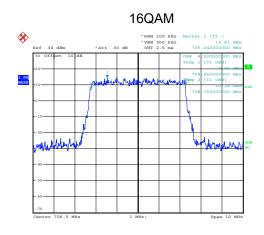
Date: 18.0CT.2017 09:35:58

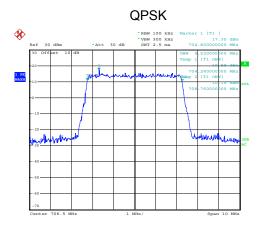
Highest channel



LTE-Band 17 part

99% Occupy bandwidth BW: 5MHz



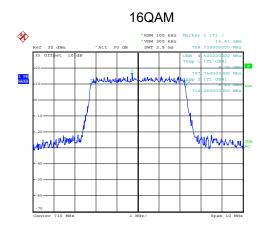


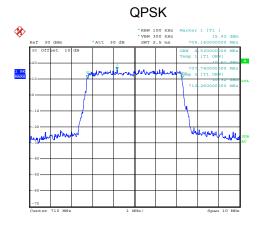
Date: 18.0CT.2017 09:37:15

Date: 18.OCT.2017 09:37:09

Date: 18.OCT.2017 09:38:06

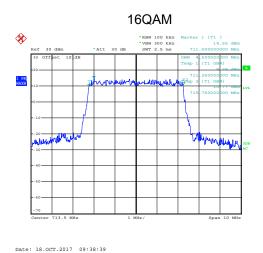
Lowest channel





Date: 18.0CT.2017 09:38:13

Middle channel



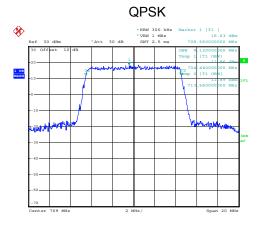


Highest channel





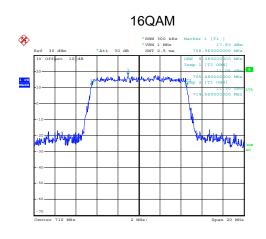
99% Occupy bandwidth BW: 10MHz

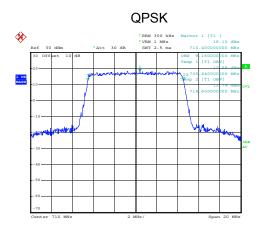


Date: 18.0CT.2017 09:39:52

Date: 18.0CT.2017 09:39:46

Lowest channel

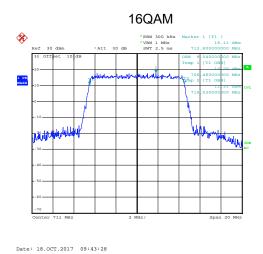


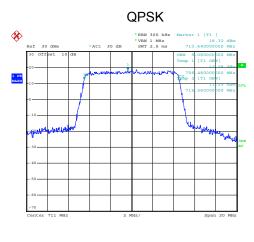


Date: 18.0CT.2017 09:42:18

Date: 18.OCT.2017 09:42:13

Middle channel



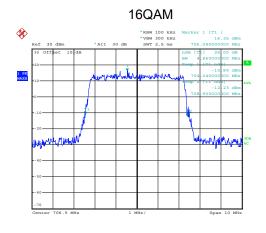


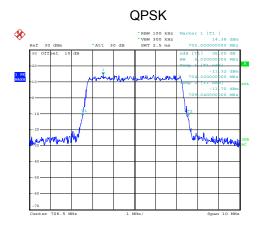
Date: 18.0CT.2017 09:43:21

Highest channel



-26dBc bandwidth BW: 5MHz

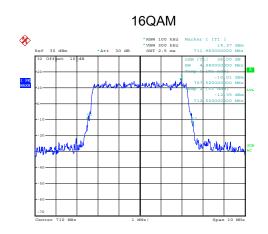


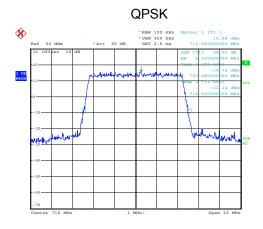


Date: 18.0CT.2017 09:37:29

Date: 18.OCT.2017 09:37:24

Lowest channel

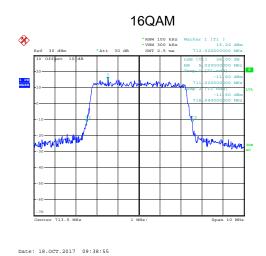


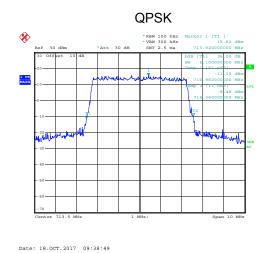


Date: 18.0CT.2017 09:37:51

Date: 18.0CT.2017 09:37:46

Middle channel





Highest channel