

Global United Technology Services Co., Ltd.

Report No.: GTS201904000070F01

Spectrum Report (LTE)

Applicant: Positioning Universal Inc

4660 La Jolla Village Drive Suite 1100, San Diego, California **Address of Applicant:**

92122, United States

Manufacturer: Positioning Universal Inc

Address of 4660 La Jolla Village Drive Suite 1100, San Diego, California

92122, United States Manufacturer:

Equipment Under Test (EUT)

Product Name: LTE Cat 1 Vehicle Telematics and Radio Telecommunications

Device

Model No.: **FJ1000LS**

FCC ID: 2AHRH-FJ1000LS

FCC CFR Title 47 Part 2 **Applicable standards:**

> FCC CFR Title 47 Part 22 FCC CFR Title 47 Part 24 FCC CFR Title 47 Part 27

April 09, 2019 Date of sample receipt:

Date of Test: April 10, 2019-May 17, 2019

Date of report issued: May 17, 2019

Test Result: PASS *

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

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	May 17, 2019	Original

Prepared By:	Tiger. Chen	Date:	May 17, 2019
	Project Engineer		
Check By:	Reviewer	Date:	May 17, 2019



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4 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1091	Pass* (Please refer to MPE Report)
RF Output Power	Part 2.1046 Part 22.913 Part 24.232 (c) Part 27.50(c)(10)/(d)(4)	Pass
Peak-to-Average Ratio	FCC part24.232(d) FCC Part 27.50	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238 Part 27.53(h)/(g)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 (a) Part 27.53(h)/(g)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 Part 24.238 (a) Part 27.53(h)/(g)	Pass
Out of band emission, Band Edge	Part 22.917 Part 24.238 (a) Part 27.53(h)/(g)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

N/A: Not applicable.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes				
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)				
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)				
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)				
Note (1): The measurement unce	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 General Description of EUT

Product Name:	LTE Cat 1 Vehicle Telematics and Radio Telecommunications Device
Model No.:	FJ1000LS
S/N:	50HS92000100
Tested Sample(s) ID:	GTS201904000070-1
Hardware Version:	P5
Software Version:	LR4.3.4.3-42551
Support Networks:	LTE
Support Bands:	LTE Band 12, LTE Band 25, LTE Band 26
Channel Bandwidth:	LTE Band 12: 5MHz; 10MHz
	LTE Band 25: 5MHz; 10MHz; 15MHz; 20MHz
	LTE Band 26: 5MHz; 10MHz; 15MHz
TX Frequency:	LTE Band 12: 701.5MHz-713.5MHz
	LTE Band 25: 1852.5MHz-1912.5MHz
	LTE Band 26 : 826.5MHz-846.5MHz
Modulation type:	LTE Band 12/25/26: QPSK, 16QAM
Antenna type:	Integral antenna
Antenna gain:	LTE Band 12: 0.7dBi
	LTE Band 25: -0.6dBi
	LTE Band 26: 0.7dBi
Power supply:	DC 12V



5.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 27 and Part 24, Part 22 of the FCC CFR 47 Rules.

5.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI / TIA / EIA-603-D-2010 and FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01 and ANSI C63.26, FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

b Rad	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020			
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A			
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019			
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019			
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019			
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019			
12	Amplifier(100kHz-3GHz)	HP	HP 8347A GTS204 June. 27 20		June. 27 2018	June. 26 2019			
13	Amplifier(2GHz-20GHz)	HP	HP 84722A GTS206 June. 27		June. 27 2018	June. 26 2019			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019			
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019			
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019			
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019			
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019			
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019			
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019			



Gene	General used equipment:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019				
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019				



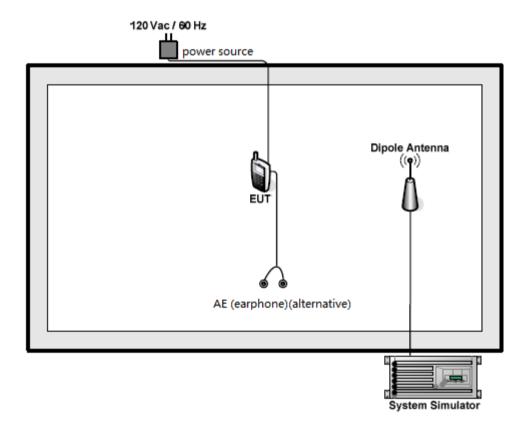
7 System test configuration

7.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes								
Band	Radiated	Conducted						
LTE Band 12	■ QPSK and 16QAM link	■ QPSK and 16QAM link						
LTE Band 25	■ QPSK and 16QAM link	■ QPSK and 16QAM link						
LTE Band 26	■ QPSK and 16QAM link	■ QPSK and 16QAM link						

7.2 Configuration of Tested System





7.3 Conducted Output Power

Test Requirement:	Part 24.232 (c); Part 27.50(c)(10)/(d)(4); FCC part22.913
Test Method:	FCC part2.1046
Limit:	LTE Band 12: 3W
	LTE Band 25: 2W
	LTE Band 26: 7W
Test setup:	EUT Splitter Communication Tester Power meter
	Note: Measurement setup for testing on Antenna connector
Test Procedure:	The transmitter output port was connected to base station.
	The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
	Set EUT at maximum power through base station.
	Select lowest, middle, and highest channels for each band and different modulation.
	5. Measure the maximum burst average power.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass



Measurement Data

	Band 12								
				Act	ual output power(dl	3m)			
Bandwidth	Mode	RB Size	RB Offset	Channel 23035 701.5MHz	Channel 23095 707.5MHz	Channel 23155 713.5MHz			
		1	0	22.38	22.26	22.68			
		1	12	22.85	22.96	22.74			
		1	24	23.72	22.59	22.97			
	QPSK	12	0	22.51	23.20	23.41			
		12	6	22.52	23.87	22.77			
		12	13	23.08	22.07	22.78			
5MHz		25	0	22.24	22.73	23.04			
SIVITZ		1	0	23.19	22.15	23.64			
		1	12	23.17	22.07	22.16			
		1	24	22.40	22.52	22.08			
	16QAM	12	0	22.33	22.66	22.14			
		12	6	23.43	23.05	22.70			
		12	13	23.60	23.43	22.36			
		25	0	22.71	23.18	23.48			
				Act	ual output power(dl	Bm)			
Bandwidth	Mode	RB Size	RB Offset	Channel 23060 704.0MHz	Channel 23095 707.5MHz	Channel 23130 711.0MHz			
		1	0	22.18	22.44	22.32			
		1	24	22.44	22.21	22.46			
		1	49	22.09	22.44	22.86			
	QPSK	25	0	22.54	23.21	23.87			
		25	12	22.67	22.03	23.95			
		25	25	22.49	23.48	22.36			
10MHz		50	0	22.01	22.35	23.58			
TUIVITL	_	1	0	22.65	23.80	23.78			
		1	24	23.70	22.70	22.58			
		1	49	22.97	22.99	22.99			
	16QAM	25	0	22.88	23.89	22.66			
		25	12	22.89	22.83	23.14			
		25	25	22.47	23.70	22.48			
		50	0	22.72	23.34	23.52			



Band 25								
				Act	Actual output power(dBm)			
Bandwidth	Mode	RB Size	RB Offset	Channel 26065 1852.5MHz	Channel 26365 1882.5MHz	Channel 26665 1912.5MHz		
		1	0	22.98	22.75	22.09		
		1	12	21.08	21.88	22.46		
		1	24	22.55	22.32	21.78		
	QPSK	12	0	22.00	22.57	22.54		
		12	6	21.03	22.09	22.04		
		12	13	22.52	22.44	21.37		
51411		25	0	21.40	21.54	22.87		
5MHz		1	0	22.41	22.84	22.48		
		1	12	21.03	22.57	22.48		
		1	24	21.80	21.01	22.89		
	16QAM	12	0	21.26	21.15	21.61		
		12	6	22.37	21.76	22.58		
		12	13	21.35	21.79	21.15		
		25	0	22.24	21.71	21.43		
				Actual output power(dBm)				
Bandwidth	Mode	RB Size	RB Offset	Channel 26090 1855.0MHz	Channel 26365 1882.5MHz	Channel 16640 1910.0MHz		
		1	0	21.76	22.26	22.75		
		1	24	21.04	22.30	21.79		
		1	49	21.72	22.83	21.73		
	QPSK	25	0	21.13	22.88	22.34		
		25	12	22.62	21.93	21.64		
		25	25	21.69	22.31	21.48		
40141-		50	0	22.77	22.82	22.59		
10MHz		1	0	22.46	21.78	22.66		
		1	24	22.07	21.76	21.22		
		1	49	22.35	21.30	21.98		
	16QAM	25	0	21.49	21.04	21.41		
		25	12	22.72	22.14	22.65		
		25	25	22.93	22.70	21.34		
		50	0	21.57	21.42	21.66		



				Act	ual output power(di	3m)	
Bandwidth	Mode	RB Size	RB Offset	Channel 26115 1857.5MHz	Channel 26365 1882.5MHz	Channel 26615 1907.5MHz	
		1	0	21.79	21.74	22.39	
		1	38	21.43	21.01	22.68	
		1	74	22.72	22.47	21.70	
	QPSK	38	0	21.64	21.18	21.08	
		38	18	21.57	22.01	22.94	
		38	37	22.36	22.04	21.55	
15MHz		75	0	21.67	21.36	22.56	
ISIVIEZ		1	0	22.64	21.15	21.42	
		1	38	21.68	22.34	22.42	
		1	74	22.24	22.19	21.76	
	16QAM	38	0	22.16	22.10	21.43	
		38	18	22.42	22.96	21.05	
		38	37	21.06	21.19	22.43	
		75	0	21.55	22.90	21.72	
				Actual output power(dBm)			
Bandwidth	Mode	RB Size	RB Offset	Channel 26140 1860.0MHz	Channel 26365 1882.5MHz	Channel 26590 1905.0MHz	
		1	0	22.06	21.46	21.32	
		1	49	22.09	22.50	22.85	
		1	99	21.25	21.35	21.81	
	QPSK	50	0	22.41	21.87	21.75	
		50	25	22.38	22.47	21.24	
		50	50	22.42	22.54	22.79	
20MHz		100	0	22.77	22.12	21.45	
ZUIVIПZ		1	0	21.07	21.78	22.11	
		1	49	21.62	22.28	21.64	
		1	99	21.65	21.31	22.19	
	16QAM	50	0	21.40	21.73	22.18	
		50	25	21.17	21.38	22.55	
		50	50	22.71	21.81	21.19	
		100	0	22.00	21.93	21.72	



Band 26										
				Act	ual output power(di	3m)				
Bandwidth	Mode	RB Size	RB Offset	Channel 26815 826.5MHz	Channel 26915 836.5MHz	Channel 27015 846.5MHz				
		1	0	22.75	22.80	21.73				
		1	12	22.73	21.12	22.15				
		1	24	22.71	22.50	22.05				
	QPSK	12	0	22.52	22.53	21.30				
		12	6	21.69	22.21	22.53				
		12	13	22.69	22.18	21.20				
C N 41 1—		25	0	21.71	22.03	22.15				
5MHz		1	0	22.40	21.47	22.04				
		1	12	22.70	22.29	21.71				
	16QAM	1	24	22.60	22.55	22.35				
		12	0	22.97	21.36	21.94				
		12	6	22.03	22.01	22.96				
		12	13	21.04	22.94	22.17				
		25	0	22.68	21.09	21.12				
				Actual output power(dBm)						
Bandwidth	Mode	RB Size	RB Offset	Channel 26840 829.0MHz	Channel 26915 836.5MHz	Channel 26990 844.0MHz				
		1	0	22.69	22.31	21.69				
		1	24	21.86	22.62	22.86				
		1	49	22.79	22.98	22.79				
	QPSK	25	0	22.51	21.19	22.51				
		25	12	22.02	22.55	21.02				
		25	25	21.05	22.31	22.05				
10MHz		50	0	22.50	22.28	22.50				
TUIVITL	_	1	0	22.15	21.15	22.15				
		1	24	22.05	22.97	21.05				
		1	49	22.49	21.66	22.49				
	16QAM	25	0	22.93	22.06	21.93				
		25	12	21.48	22.50	22.48				
		25	25	22.62	22.72	21.62				
		50	0	22.64	21.07	22.64				



				Actual output power(dBm)			
Bandwidth	Mode	RB Size	RB Offset	Channel 26865 831.5MHz	Channel 26915 836.5MHz	Channel 26965 841.5MHz	
		1	0	21.88	22.71	21.08	
		1	38	21.42	22.30	22.70	
		1	74	21.75	22.04	21.06	
	QPSK	38	0	22.22	22.19	21.77	
		38	18	22.58	21.54	22.47	
		38	37	21.90	21.32	21.25	
15MHz		75	0	22.78	22.98	22.13	
ISIVIDZ		1	0	21.56	22.00	21.36	
		1	38	22.62	22.63	22.69	
		1	74	21.08	22.06	22.28	
	16QAM	38	0	22.55	21.59	22.30	
		38	18	21.56	21.68	22.79	
		38	37	22.24	21.40	21.87	
		75	0	21.93	22.18	21.03	



7.4 Peak-to-Average Ratio

Test Requirement:	FCC part24.232(d) & FCC Part 27.50; Part 90							
Test Method:	FCC part2.1046							
Limit:	13db							
Test setup:	Splitter Communication Tester spectrum Note: Measurement setup for testing on Antenna connector							
Test Procedure:	 The transmitter output port was connected to base station. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each band and different modulation. Measure the maximum burst average power. Record the maximum peak-to-average ratio value. 							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 7.1 for details							
Test results:	Pass							



Measurement data:

QPSK mode:

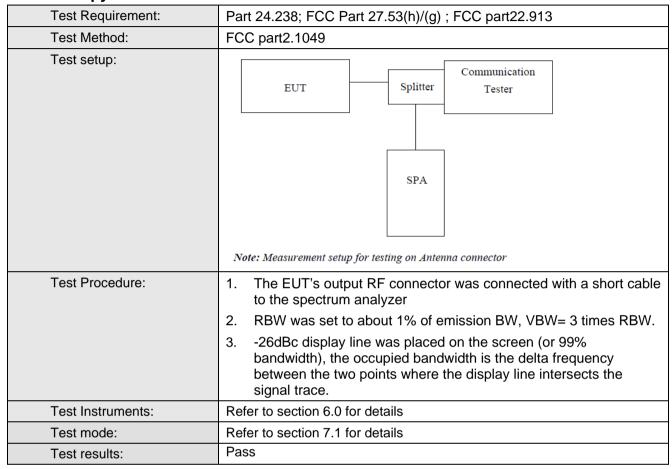
Test Band	Bandwidth	Peak to	Average Rati	Limit	Result		
Test ballu	Danawiani	Low Ch.	Low Ch. Middle Ch. High Ch.		(dB)	Result	
1.TE D 1.40	5MHz	5.11	6.10	4.39	13	PASS	
LTE Band 12	10MHz	5.43	5.65	4.79	13	PASS	
	5MHz	6.44	4.74	6.15	13	PASS	
LTE Band 25	10MHz	5.27	5.22	4.50	13	PASS	
LIE Ballu 25	15MHz	6.63	5.37	5.73	13	PASS	
	20MHz	5.09	4.35	5.85	13	PASS	
LTE Band 26	5MHz	4.21	5.64	5.90	13	PASS	
	10MHz	5.68	6.94	4.65	13	PASS	
	15MHz	4.65	5.73	4.51	13	PASS	

16QAM mode:

Test Band	Bandwidth	Peak to	Average Ration	Limit	Result		
rest band	bandwidth	Low Ch.	Middle Ch.	High Ch.	(dB)	Result	
1.TE D 1.40	5MHz	6.24	5.24	5.37	13	PASS	
LTE Band 12	10MHz	4.71	5.36	6.74	13	PASS	
	5MHz	6.16	5.50	6.83	13	PASS	
LTE Band 25	10MHz	5.54	4.78	5.64	13	PASS	
LIE Band 25	15MHz	5.30	4.67	6.15	13	PASS	
	20MHz	6.03	5.20	4.15	13	PASS	
LTE Band 26	5MHz	4.06	4.92	6.09	13	PASS	
	10MHz	4.69	6.29	4.01	13	PASS	
	15MHz	5.91	5.81	4.40	13	PASS	



7.5 Occupy Bandwidth



Measurement Data:

EUT Channel Mode Bandwidth	Channel	RB Configure		QPSK(MHz)		16QAM(MHz)		
		RB Size	RB Offset	99% OCB	-26dB bandwidth	99% OCB	-26dB bandwidth	
	Lowest	25	0	4.5847	5.767	4.5505	5.550	
	5MHz	Middle	25	0	4.5357	5.851	4.5835	5.827
LTE		Highest	25	0	4.5527	5.752	4.5274	5.663
Band 12		Lowest	50	0	8.9086	10.499	8.9155	10.099
	10MHz	Middle	50	0	8.9642	10.582	8.9750	10.495
		Highest	50	0	8.9836	10.932	8.9884	10.933

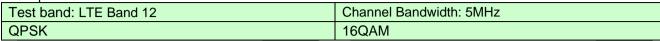


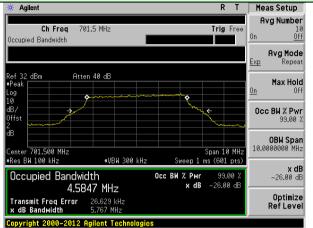
EUT Channel Mode Bandwidth		RB Configure		QPSK(MHz)		16QAM(MHz)		
		Channel	RB Size	RB Offset	99% OCB	-26dB bandwidth	99% OCB	-26dB bandwidth
		Lowest	25	0	4.5558	5.794	4.5485	5.725
	5MHz	Middle	25	0	4.5468	5.854	4.5387	5.749
		Highest	25	0	4.5657	5.961	4.5384	5.745
		Lowest	50	0	8.9590	10.600	8.9508	10.600
	10MHz	Middle	50	0	8.9691	10.862	8.9709	10.565
LTE		Highest	50	0	8.9366	10.377	8.9341	10.421
Band 25		Lowest	75	0	13.4831	16.219	13.4666	15.779
	15MHz	Middle	75	0	13.5063	15.859	13.4878	16.244
201		Highest	75	0	13.4655	15.947	13.4649	16.064
		Lowest	100	0	17.9057	20.123	17.8945	20.250
	20MHz	Middle	100	0	17.9310	20.165	17.9557	20.001
		Highest	100	0	17.9522	20.248	17.8917	19.897

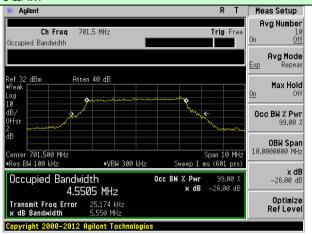
EUT Channel Mode Bandwidth		RB Configure		QPSK(MHz)		16QAM(MHz)		
		Channel	RB Size	RB Offset	99% OCB	-26dB bandwidth	99% OCB	-26dB bandwidth
	5MHz	Lowest	25	0	4.5664	5.917	4.5526	5.868
		Middle	25	0	4.5705	5.876	4.5581	5.831
		Highest	25	0	4.5724	5.786	4.5741	5.994
LTE		Lowest	50	0	8.9697	10.568	8.9356	9.993
Band	10MHz	Middle	50	0	8.9542	10.291	8.9611	10.624
26		Highest	50	0	8.9206	10.263	8.9445	10.318
15M		Lowest	75	0	13.4580	15.814	13.4325	15.784
	15MHz	Middle	75	0	13.5103	16.047	13.5174	15.995
		Highest	75	0	13.4498	15.594	13.4509	15.901



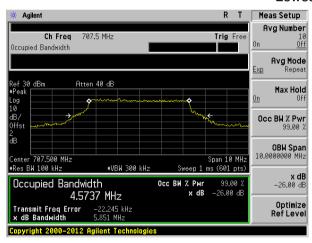
Test plot as follows:

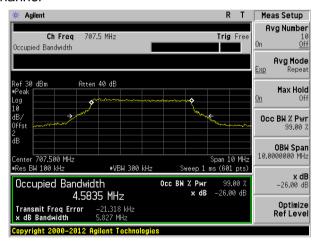




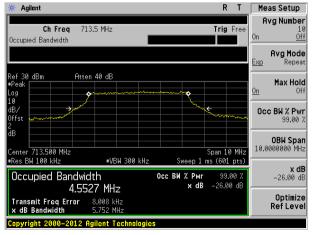


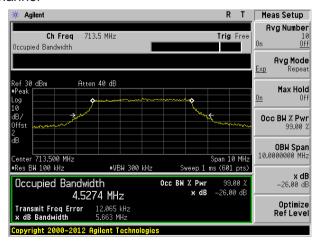
Lowest channel





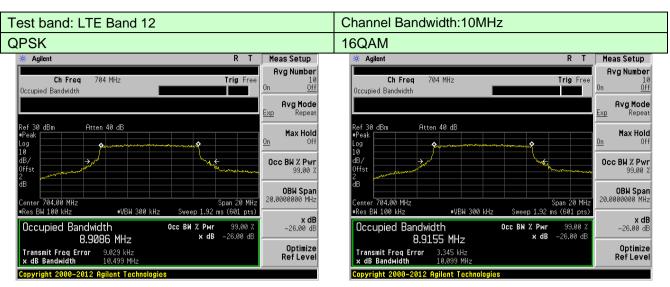
Middle channel



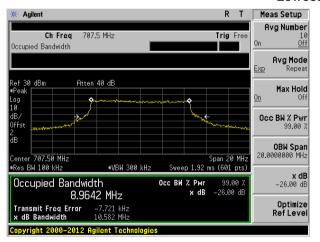


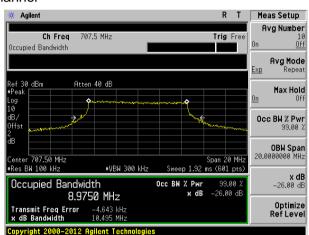
Highest channel



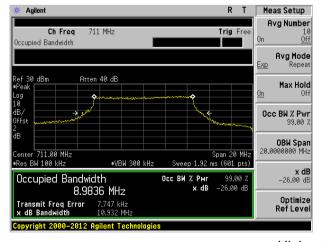


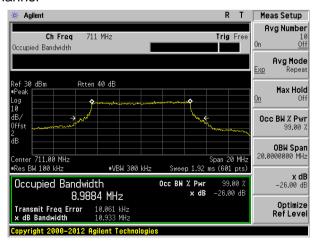
Lowest channel





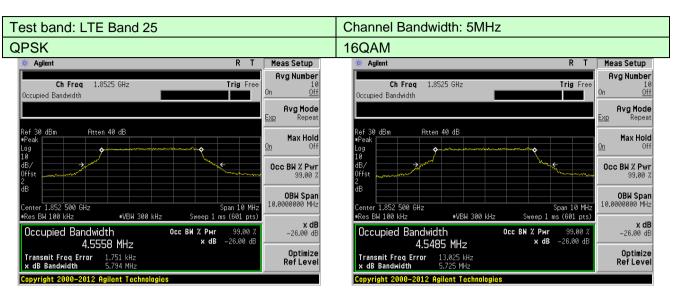
Middle channel



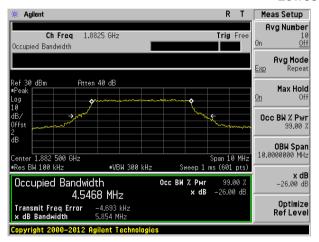


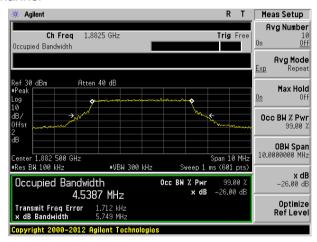
Highest channel



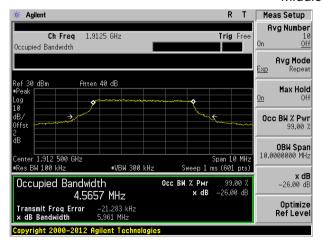


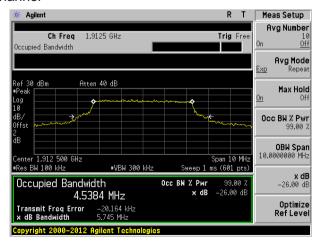
Lowest channel





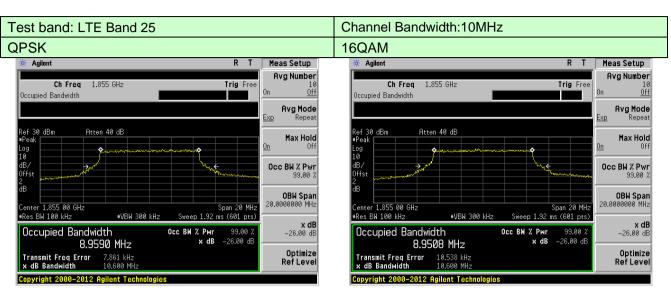
Middle channel



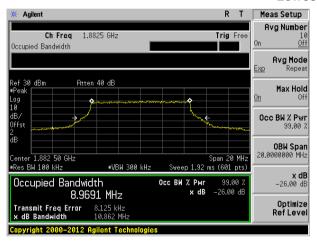


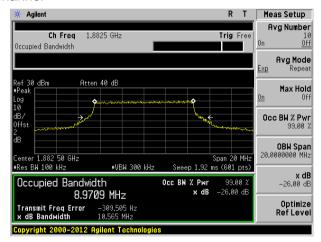
Highest channel



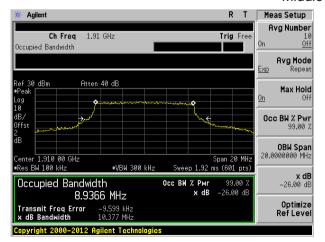


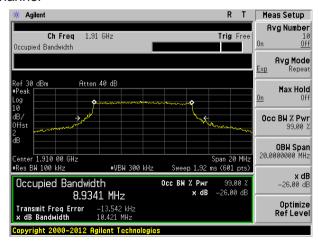
Lowest channel





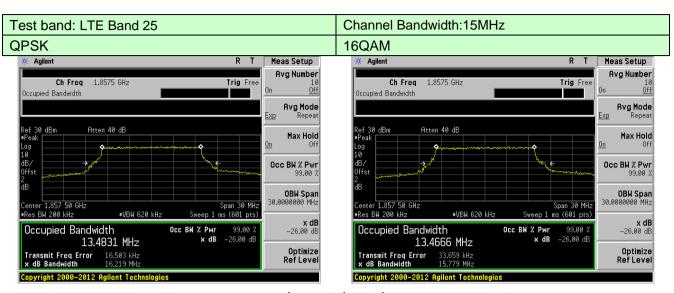
Middle channel



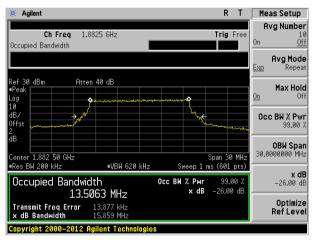


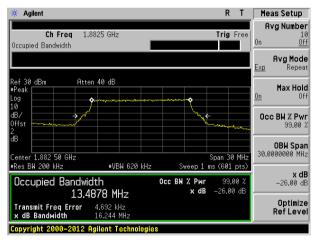
Highest channel



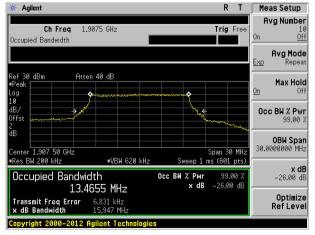


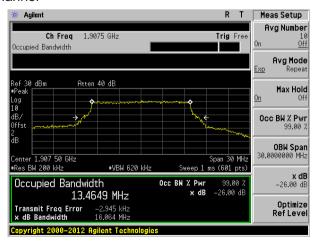
Lowest channel





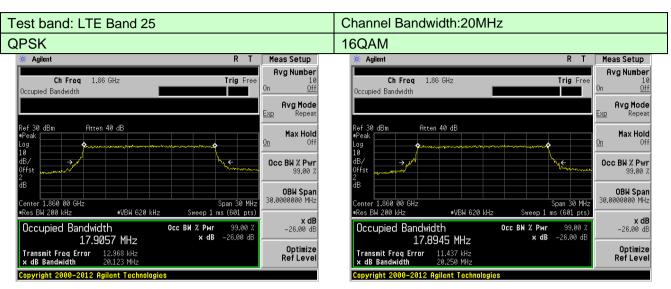
Middle channel



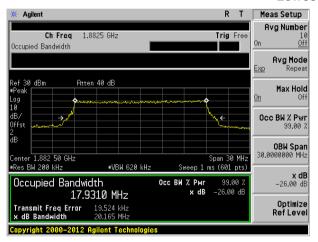


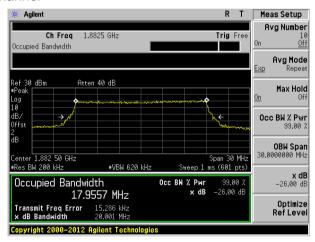
Highest channel



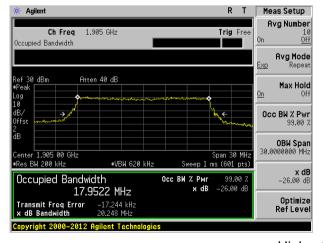


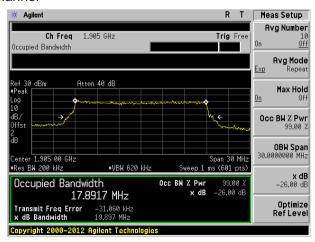
Lowest channel





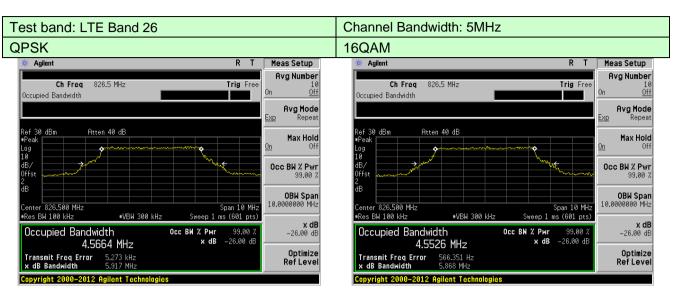
Middle channel



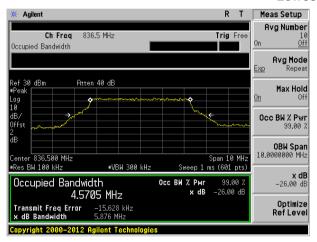


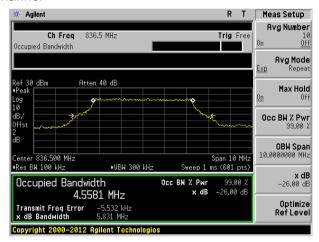
Highest channel



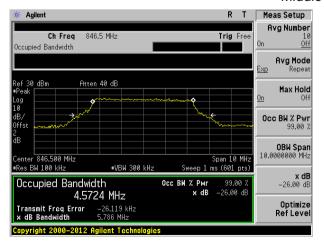


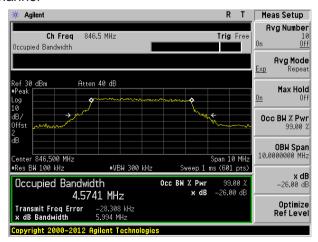
Lowest channel





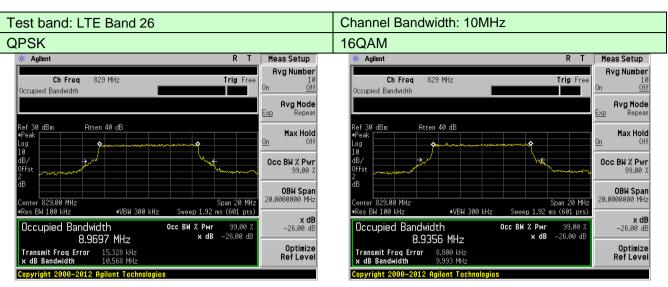
Middle channel



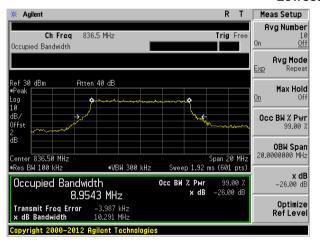


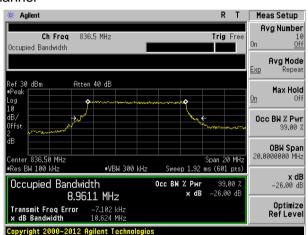
Highest channel



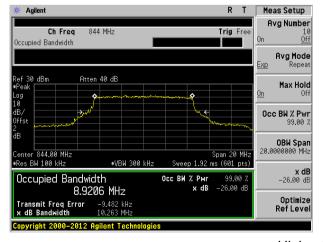


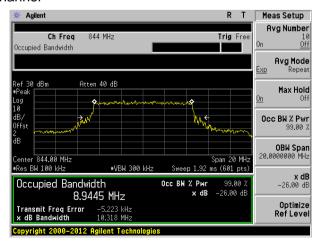
Lowest channel





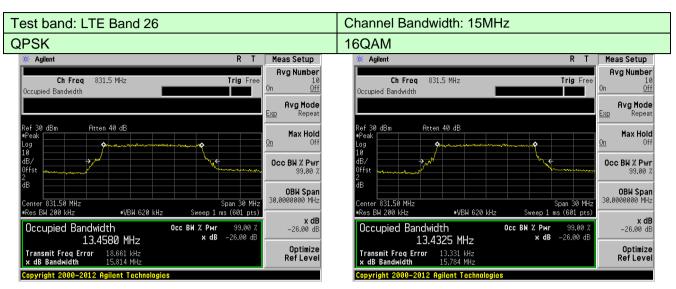
Middle channel



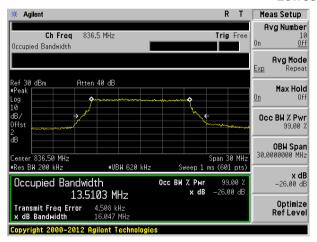


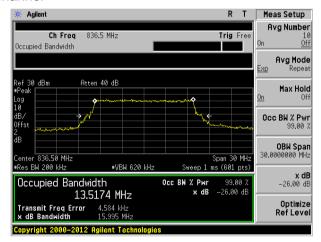
Highest channel



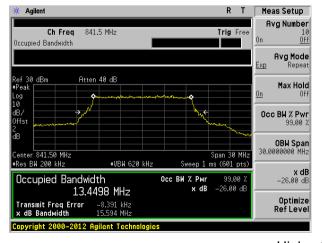


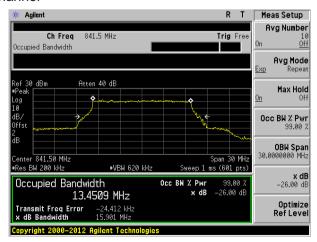
Lowest channel





Middle channel





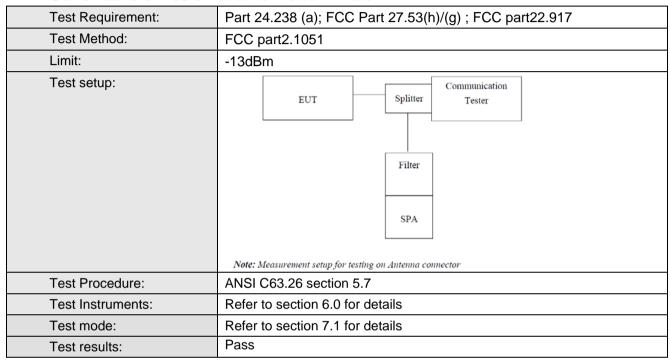
Highest channel



7.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7.7 Out of band emission at antenna terminals

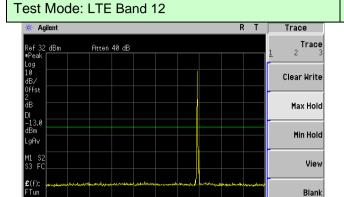




Test plot as follows:

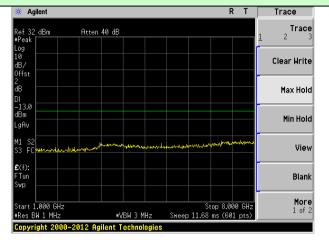
Res BW 100 kHz

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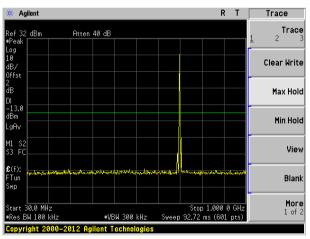
#VBW 300 kHz

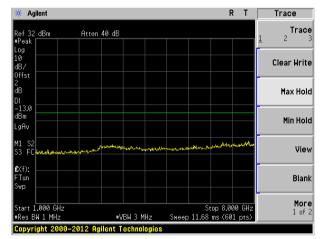
Channel Bandwidth: 5MHz



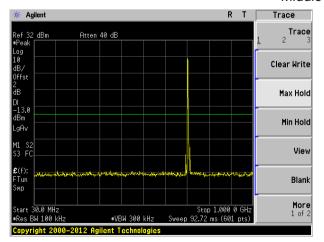
Lowest channel

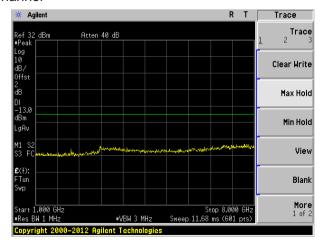
More 1 of 2





Middle channel

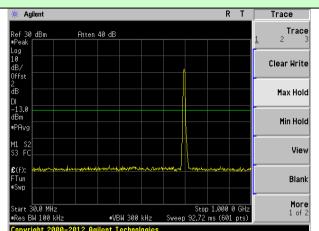




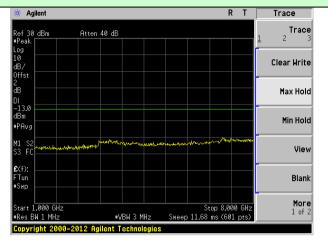
Highest channel



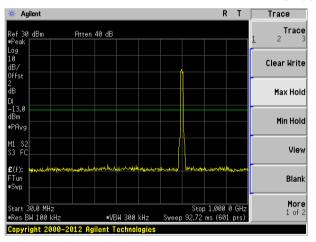
Test Mode: LTE Band 12

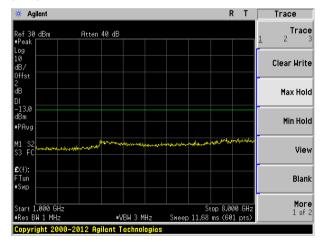


Channel Bandwidth: 10MHz

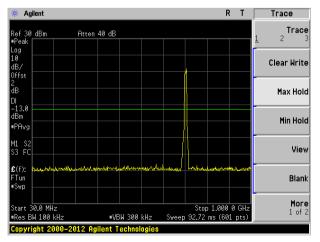


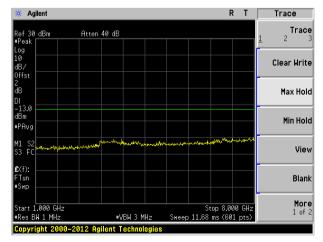
Lowest channel





Middle channel

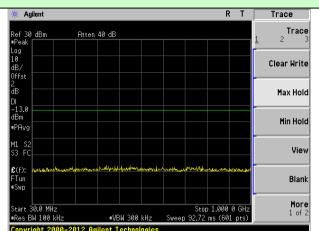




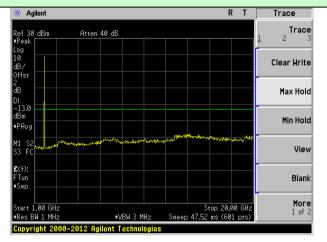
Highest channel



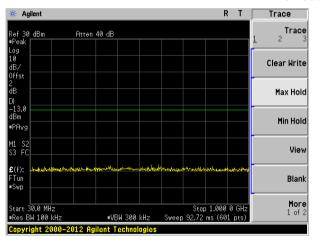
Test Mode: LTE Band 25

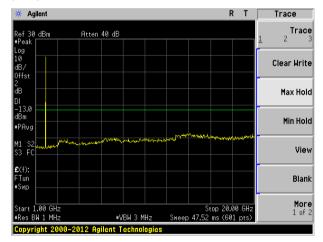


Channel Bandwidth: 5MHz

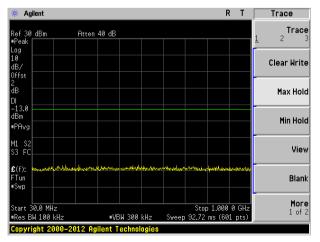


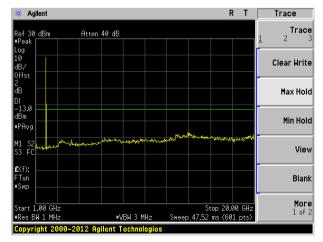
Lowest channel





Middle channel

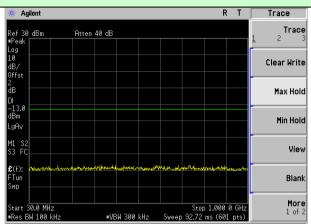




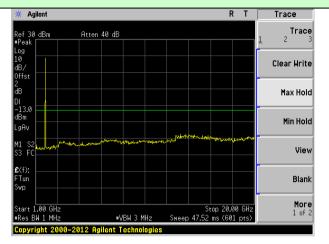
Highest channel



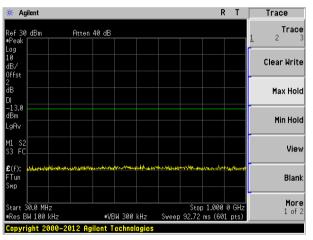
Test Mode: LTE Band 25

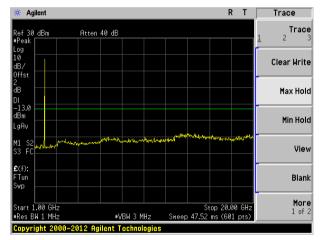


Channel Bandwidth: 10MHz

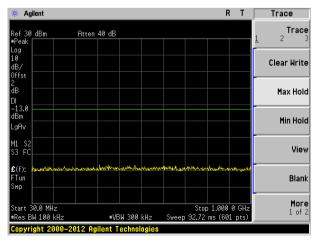


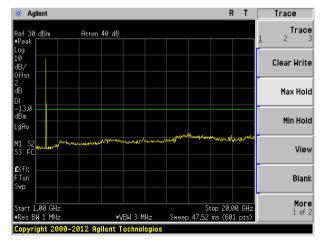
Lowest channel





Middle channel





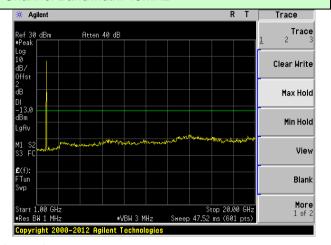
Highest channel



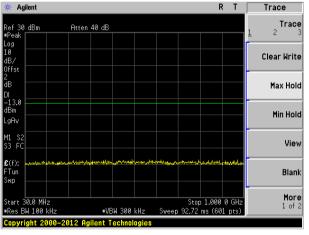
Convright 2000-2012 Agilent Technolo

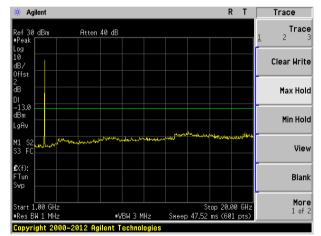
Report No.: GTS201904000070F01

Channel Bandwidth: 15MHz

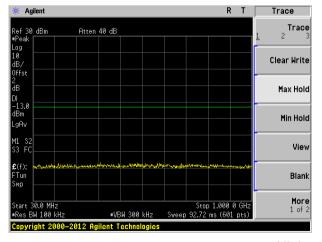


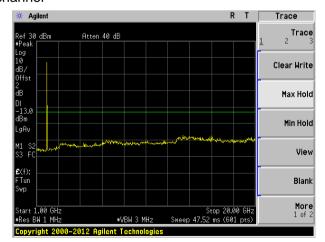
Lowest channel





Middle channel



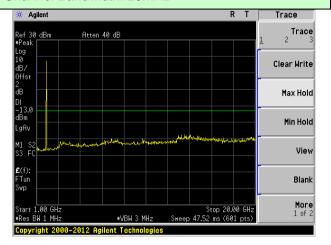


Highest channel

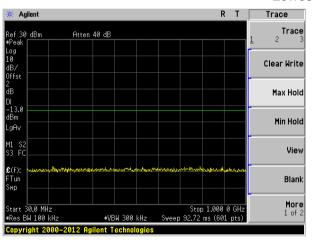


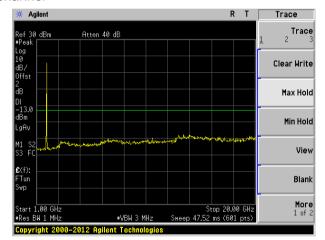
Test Mode: LTE Band 25 ** Aglient R T Trace Ref 30 dBm Atten 40 dB **Peak Log 10 dB/ Offst 2 dB DI -13.0 dBm LgHv Min Hold LgHv ** E(f): FTun Swp Start 30.0 MHz **Res BW 100 kHz **VBM 300 kHz ** Sweep 92.72 ms (691 pts) ** WBM 300 kHz ** Sweep 92.72 ms (691 pts)

Channel Bandwidth: 20MHz

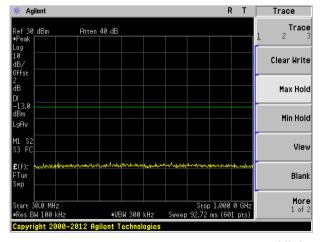


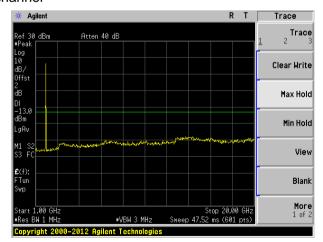
Lowest channel





Middle channel





Highest channel

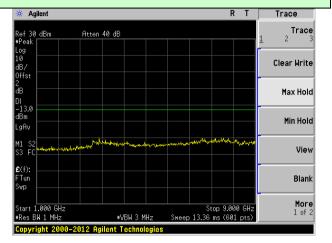


£(f):

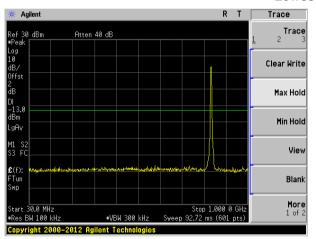
Report No.: GTS201904000070F01

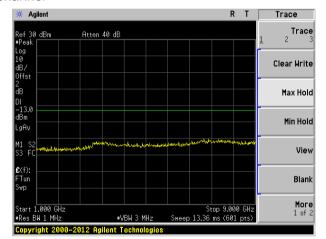
Stop 1.000 0 GH: Sweep 92.72 ms (601 pts)

Channel Bandwidth: 5MHz

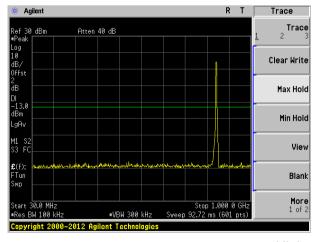


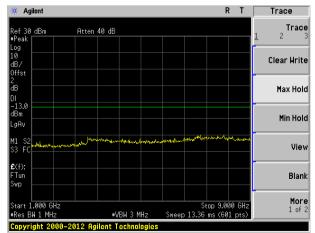
Lowest channel





Middle channel

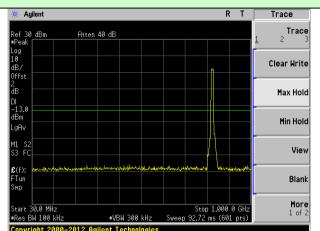




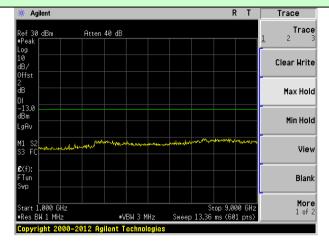
Highest channel



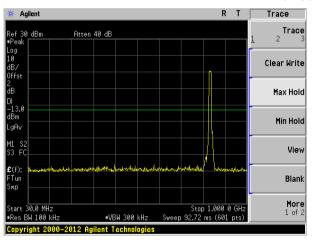
Test Mode: LTE Band 26

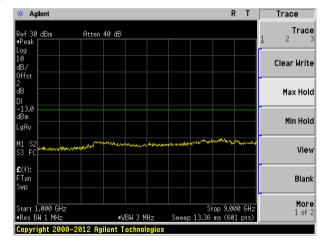


Channel Bandwidth: 10MHz

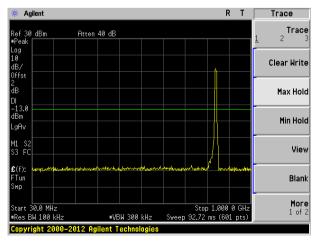


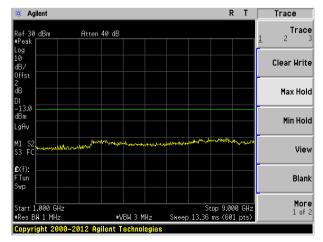
Lowest channel





Middle channel

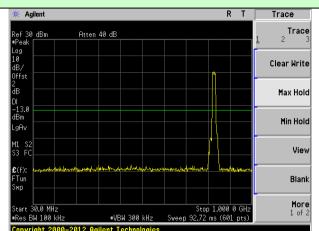




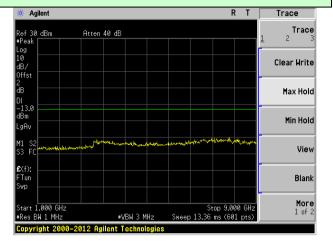
Highest channel



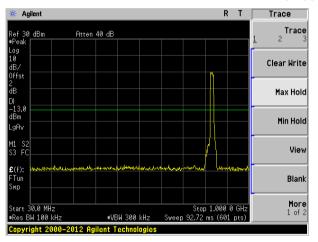
Test Mode: LTE Band 26

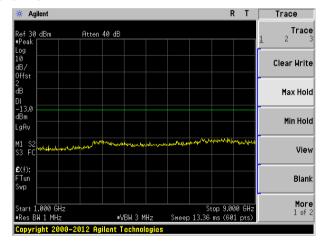


Channel Bandwidth: 15MHz

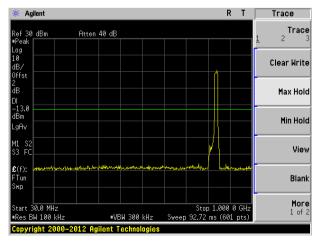


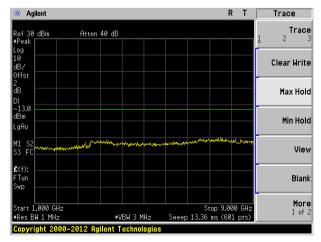
Lowest channel





Middle channel

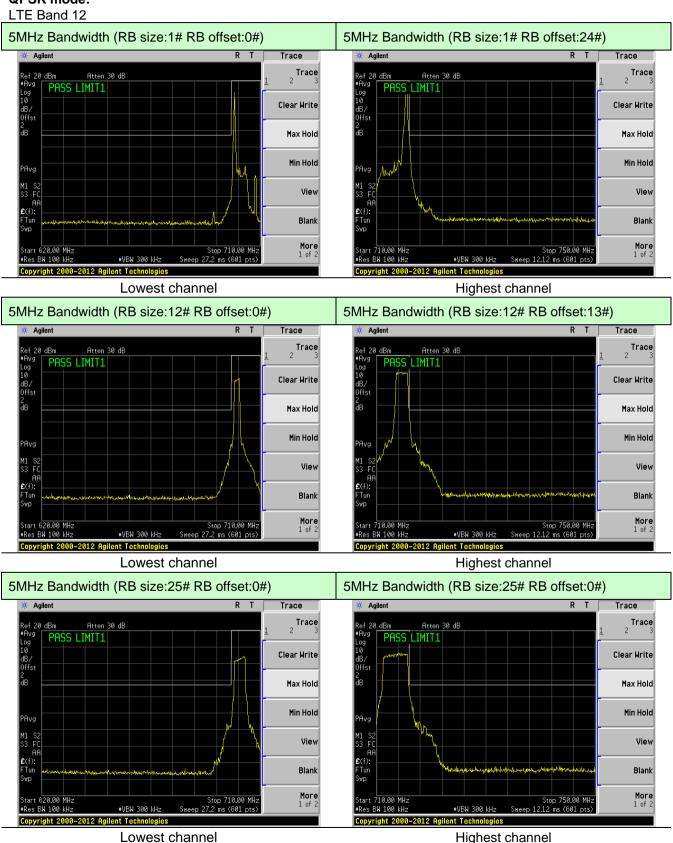




Highest channel



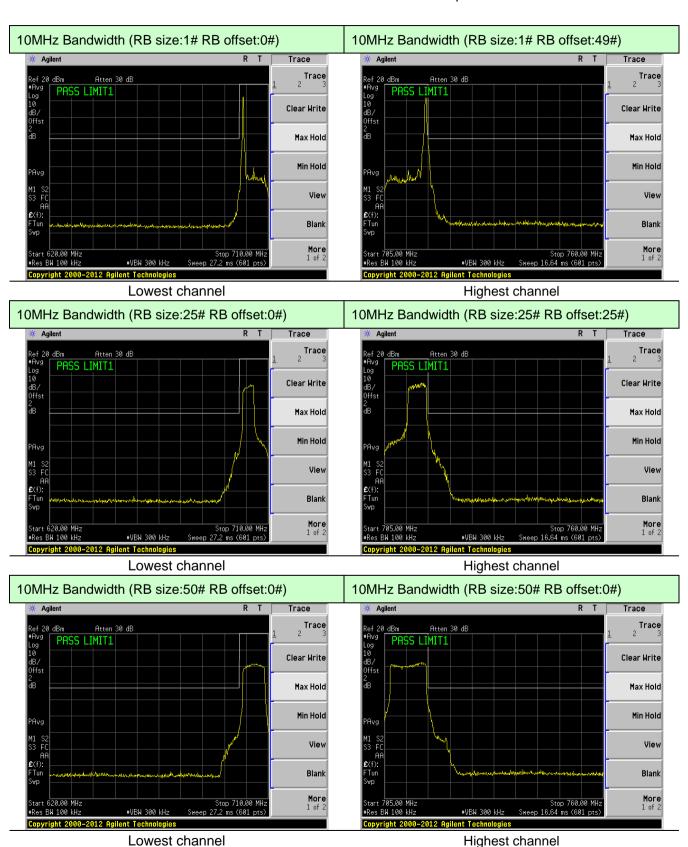
Band Edge: QPSK mode:



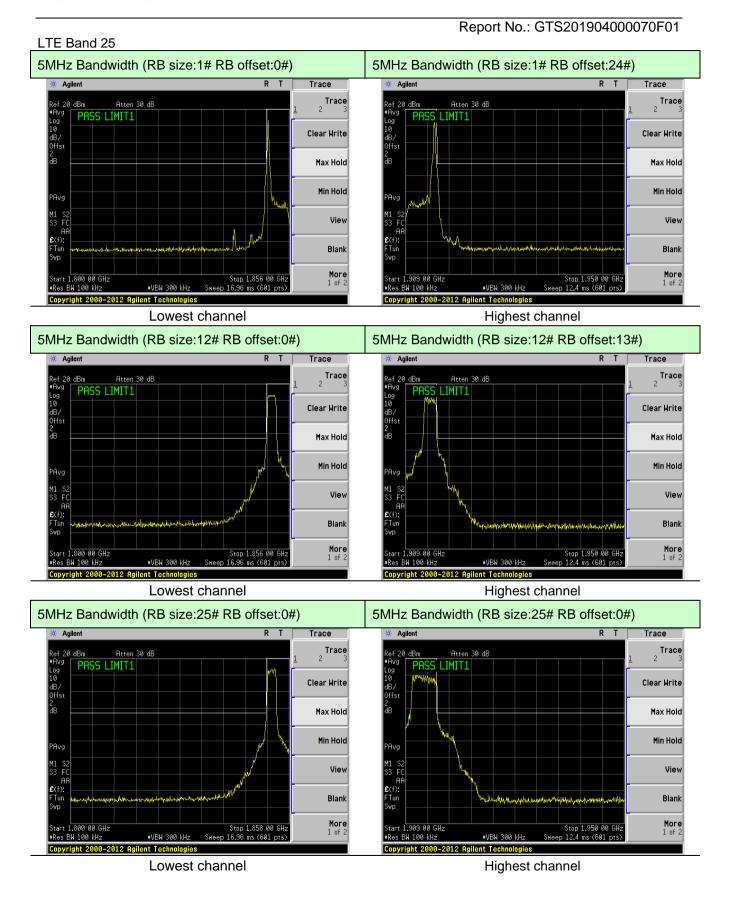
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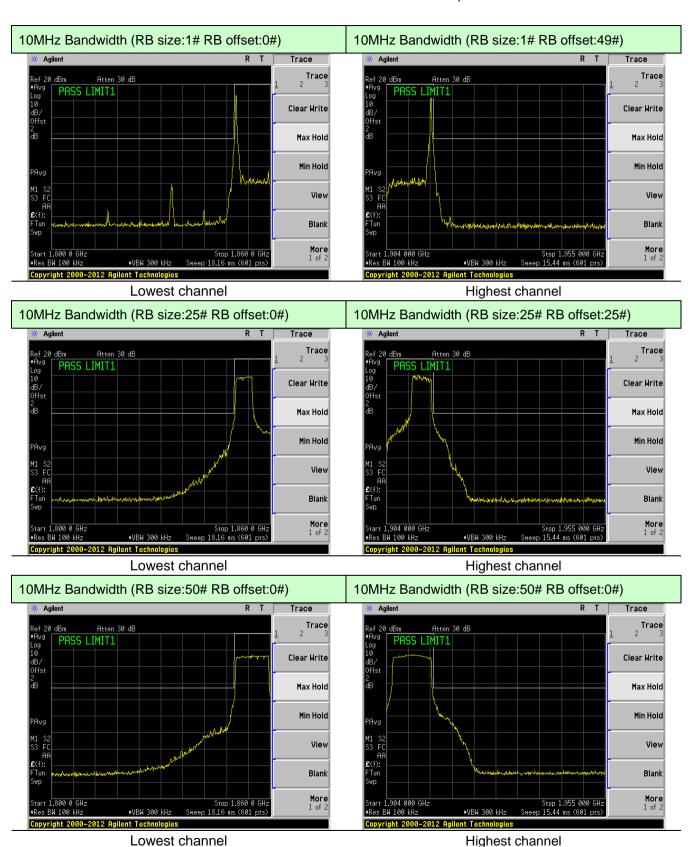




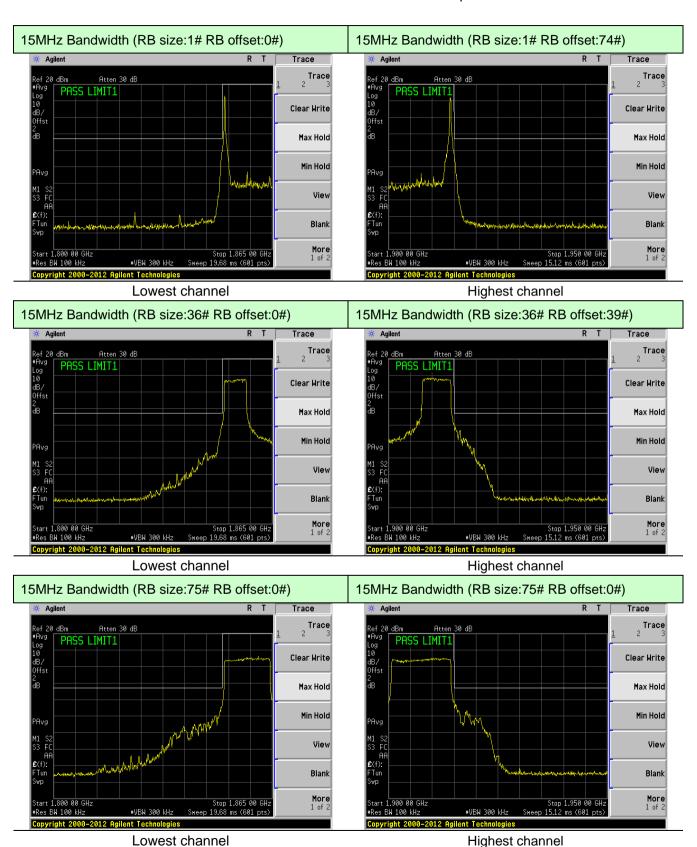
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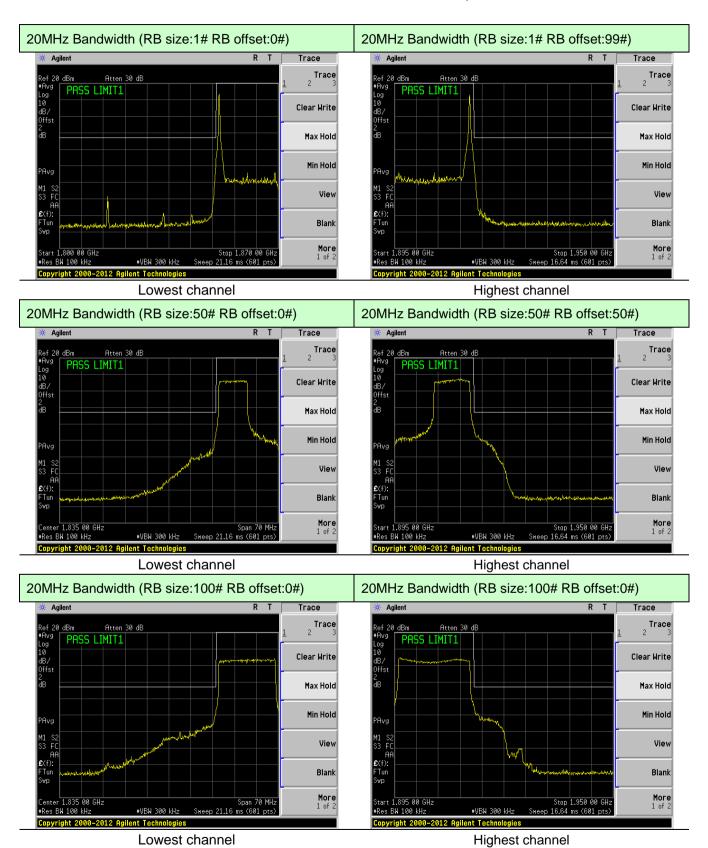




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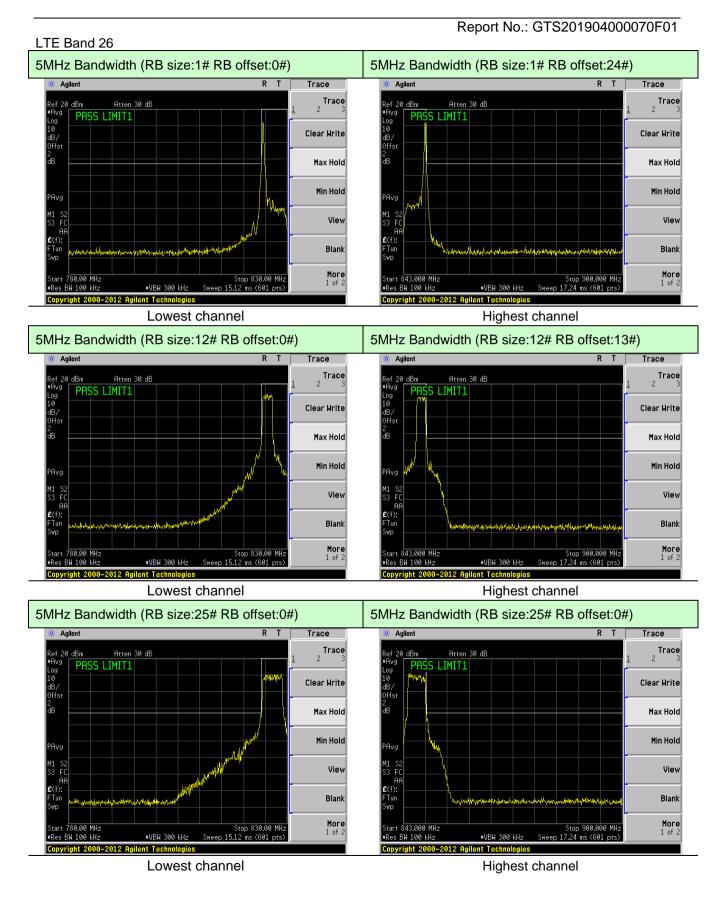


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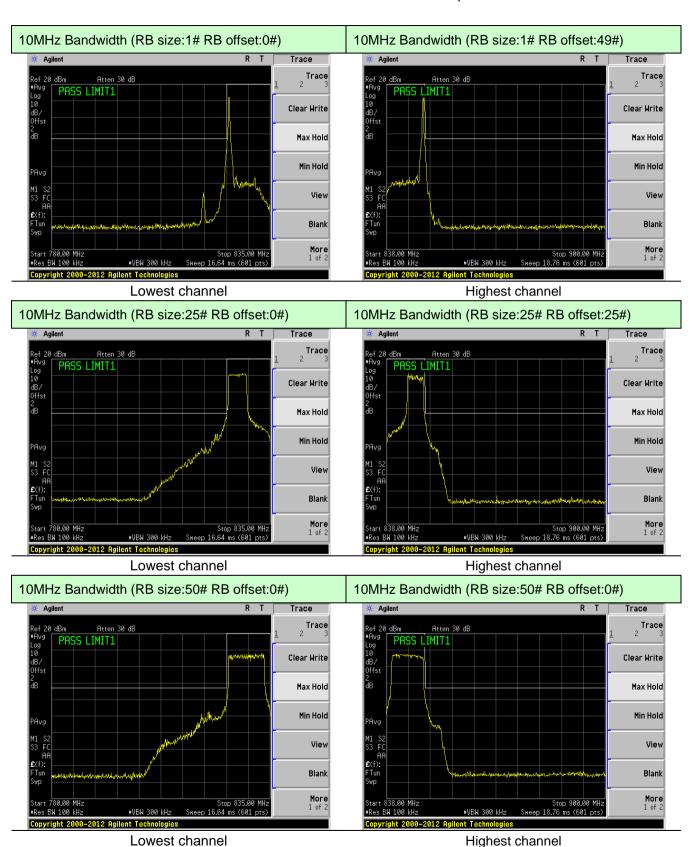


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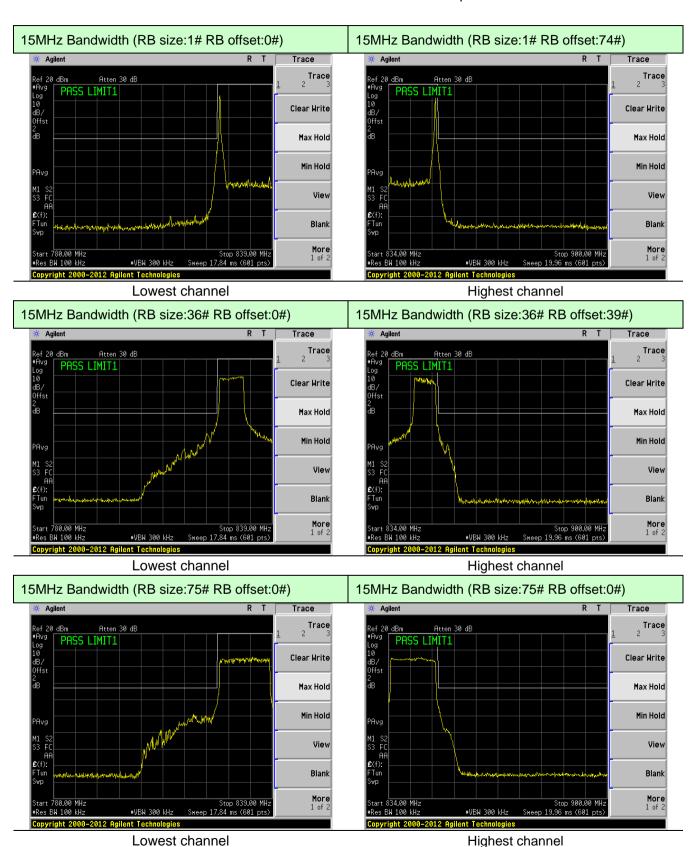
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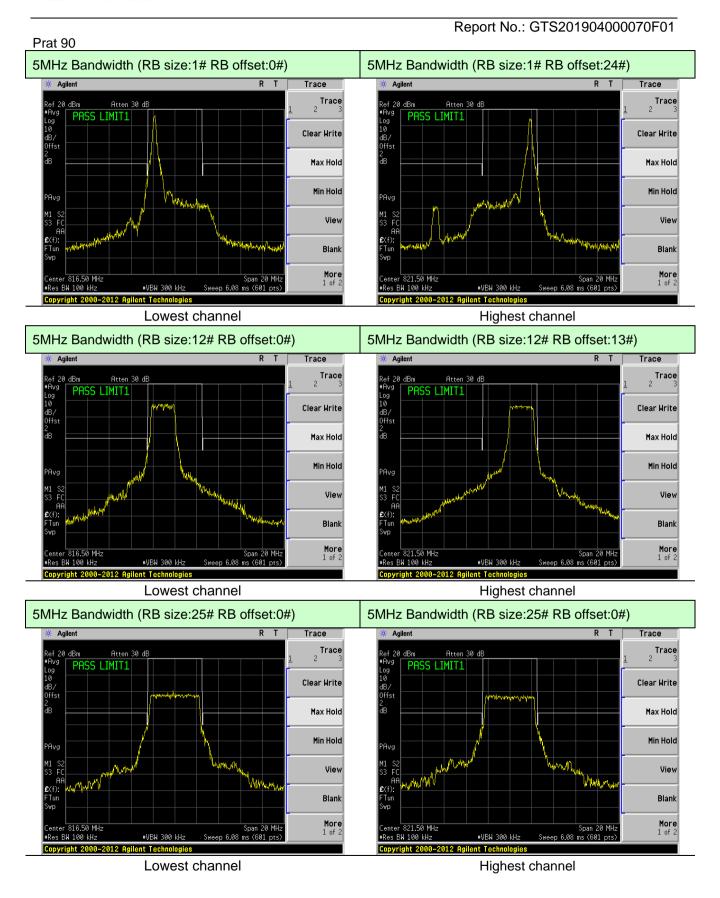


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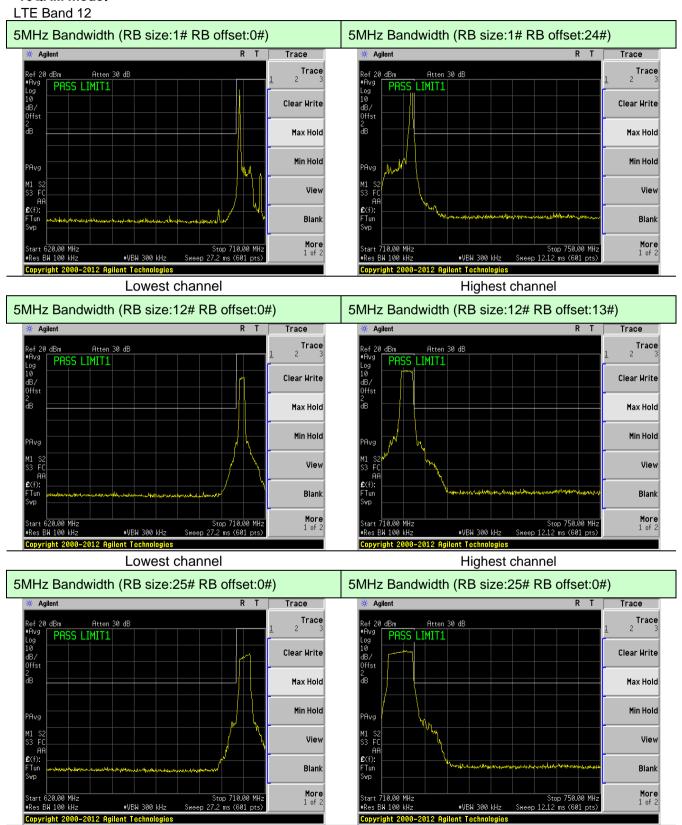


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16QAM mode:



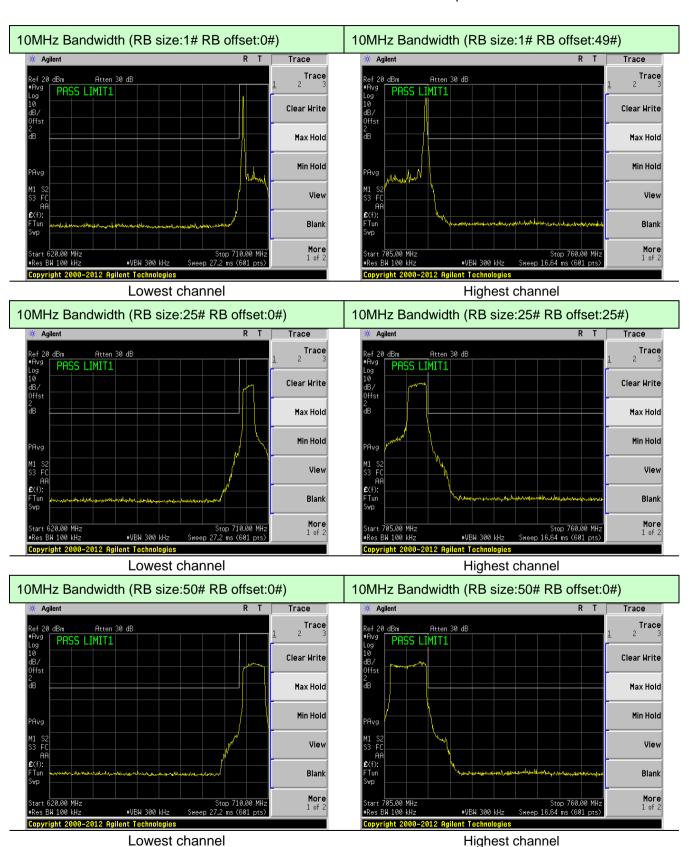
Lowest channel

Highest channel

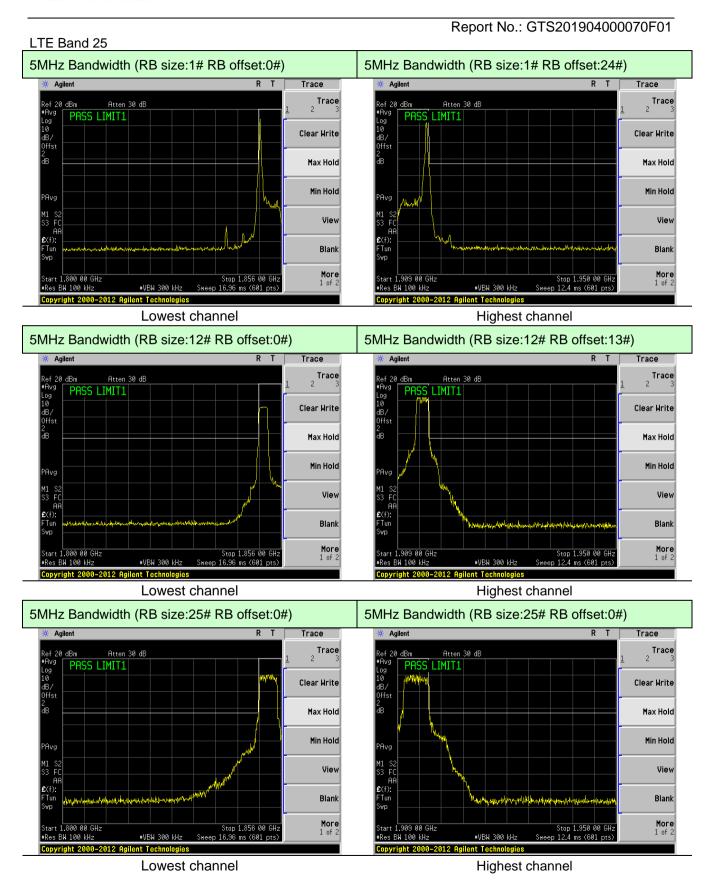
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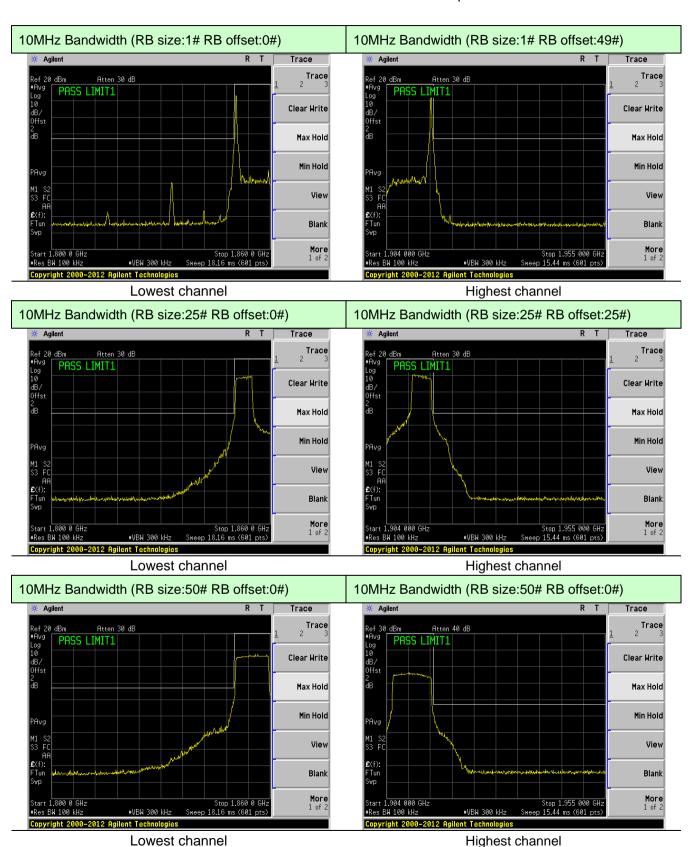


Global United Technology Services Co., Ltd.

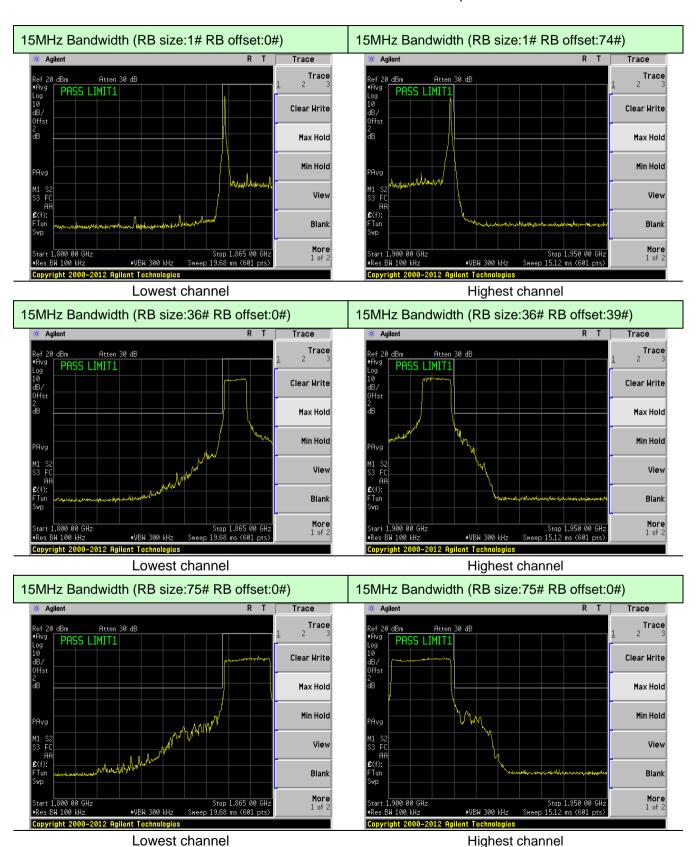
No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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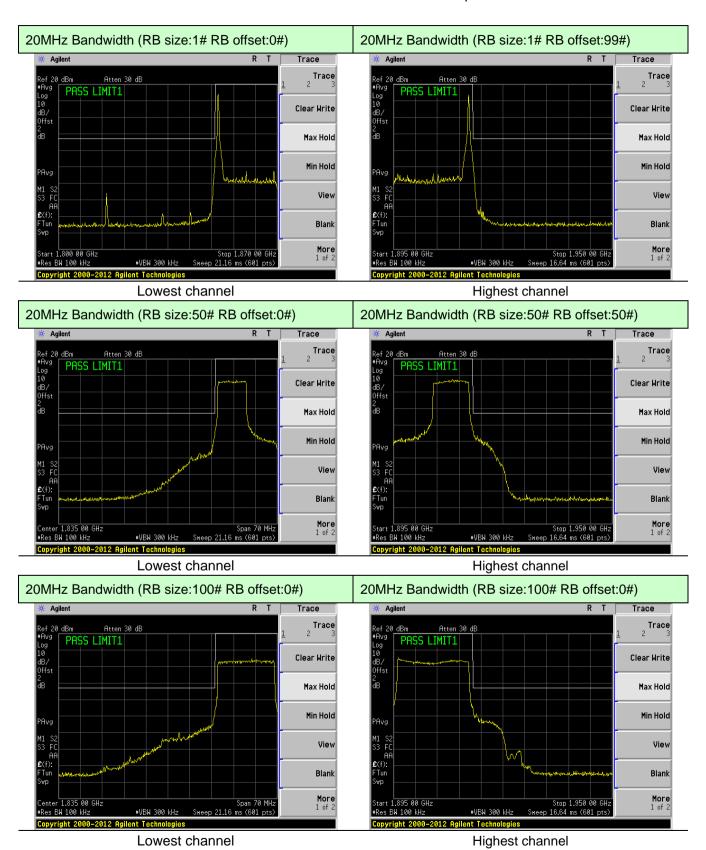




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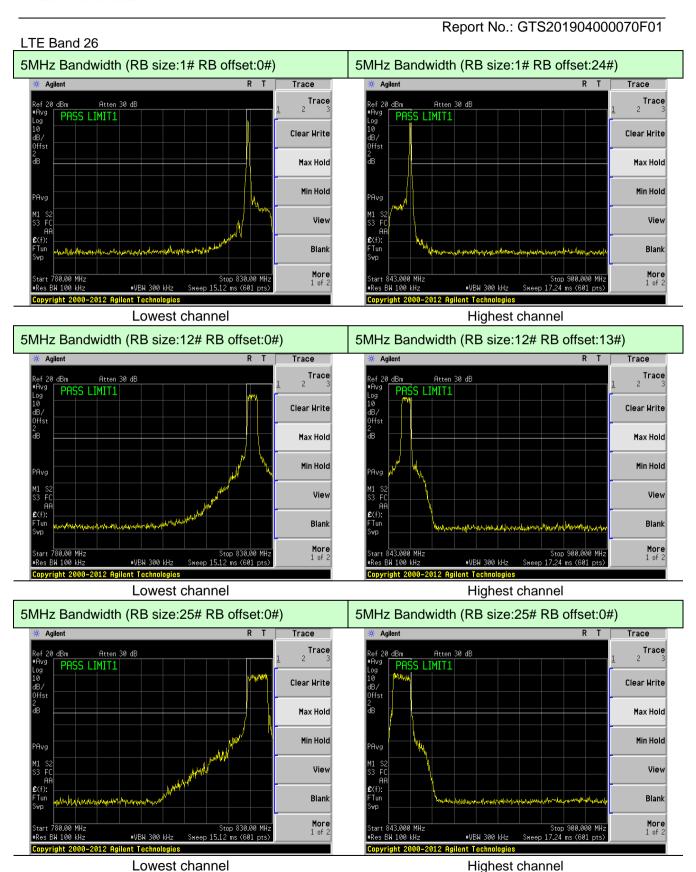


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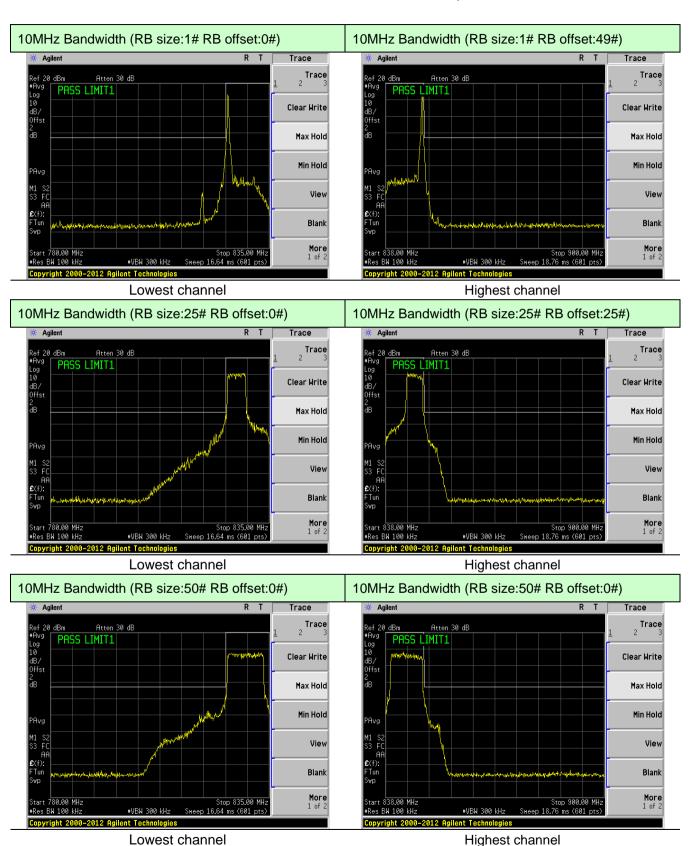
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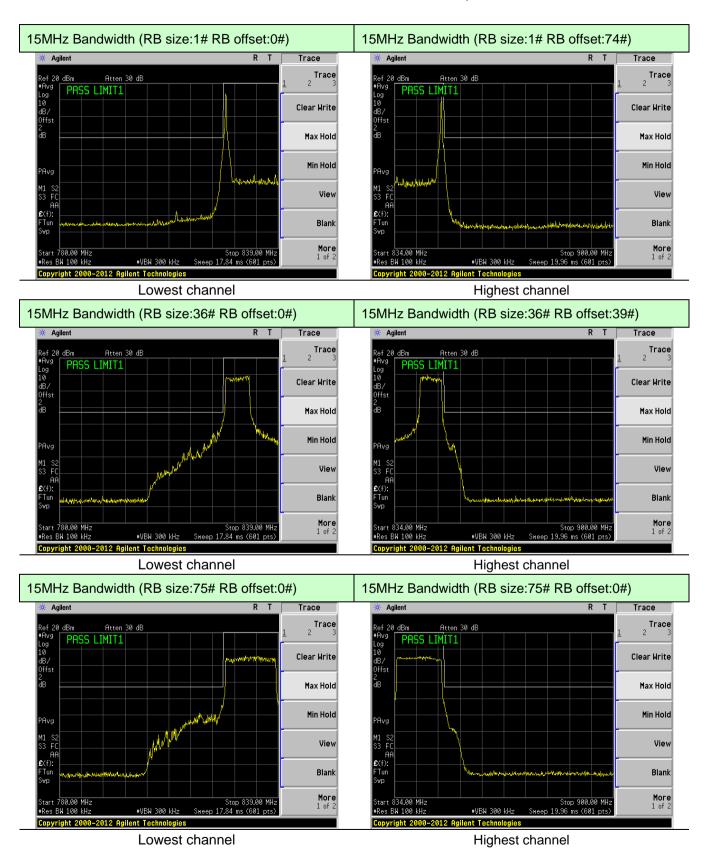


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7.8 ERP. EIRP Measurement

7.8	ERP, EIRP Measurem	CIIL
	Test Requirement:	Part 24.238 (a); Part 27.50(c)(10)/(d)(4); FCC part22.913
	Test Method:	FCC part2.1046
	Limit:	LTE Band 12: 3W (ERP) LTE Band 25: 2W (ERP) LTE Band 26: 7W (ERP)
	Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz
		Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m A Im A Amplifier
		Substituted method:
		Ground plane O.8m below 1GHz 1.5m above 1GHz S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna SPA SPA
	Test Procedure:	The EUT was placed on an non-conductive turntable using a non-
		·



	Report No.: GTS201904000070F01
	conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
	3. ERP in frequency band 777–787MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)
	4. EIRP in frequency band 1710–1755MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass



Measurement Data

The maximum value has been record:

EUT	Channe	Modulat	Polari	SGP	Substitution	Cable	EIRP	Limit	Result
mode	ı	ion	zation	[dBm]	Gain[dBi]	loss[dB]	(dBm)	(dBm)	
	Lowest	QPSK	Н	22.58	-2.46	1.45	21.57	34.77	Pass
	Middle	QPSK	Н	22.63	-2.46	1.49	21.66	34.77	Pass
LTE Band 12	Highest	QPSK	Н	22.65	-2.46	1.53	21.72	34.77	Pass
(5M)	Lowest	16-QAM	Н	21.8	-2.46	1.45	20.79	34.77	Pass
	Middle	16-QAM	Н	22.82	-2.46	1.49	21.85	34.77	Pass
	Highest	16-QAM	Н	21.61	-2.46	1.53	20.68	34.77	Pass

EUT	Channe	Modulat	Polari	SGP	Substitution	Cable	EIRP	Limit	Result
mode	I	ion	zation	[dBm]	Gain[dBi]	loss[dB]	(dBm)	(dBm)	
	Lowest	QPSK	Н	22.74	-2.46	1.45	21.73	34.77	Pass
	Middle	QPSK	Н	23.38	-2.46	1.49	22.41	34.77	Pass
LTE Band 12	Highest	QPSK	Н	21.45	-2.46	1.53	20.52	34.77	Pass
(10M)	Lowest	16-QAM	Н	21.28	-2.46	1.45	20.27	34.77	Pass
	Middle	16-QAM	Н	22.82	-2.46	1.49	21.85	34.77	Pass
	Highest	16-QAM	Н	22.64	-2.46	1.53	21.71	34.77	Pass

EUT	Channe	Modulat	Polari	SGP	Substitution	Cable	EIRP	Limit	Result
mode	I	ion	zation	[dBm]	Gain[dBi]	loss[dB]	(dBm)	(dBm)	
	Lowest	QPSK	Н	22.25	-1.93	1.13	21.45	33.00	Pass
	Middle	QPSK	Н	22.88	-1.93	1.22	22.17	33.00	Pass
LTE Band 25	Highest	QPSK	Н	22.22	-1.93	1.34	21.63	33.00	Pass
(5M)	Lowest	16-QAM	Н	23.24	-1.93	1.13	22.44	33.00	Pass
	Middle	16-QAM	Н	22.12	-1.93	1.22	21.41	33.00	Pass
	Highest	16-QAM	Н	22.45	-1.93	1.34	21.86	33.00	Pass



EUT mode	Channe I	Modulat ion	Polari zation	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Result
	Lowest	QPSK	Н	22.56	-1.93	1.13	21.76	33.00	Pass
	Middle	QPSK	Н	23.36	-1.93	1.22	22.65	33.00	Pass
LTE Band 25	Highest	QPSK	Н	21.95	-1.93	1.34	21.36	33.00	Pass
(10M)	Lowest	16-QAM	Η	22.28	-1.93	1.13	21.48	33.00	Pass
	Middle	16-QAM	Η	21.68	-1.93	1.22	20.97	33.00	Pass
	Highest	16-QAM	Н	21.86	-1.93	1.34	21.27	33.00	Pass

EUT mode	Channe I	Modulat ion	Polari zation	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Result
	Lowest	QPSK	Н	22.3	-1.93	1.13	21.50	33.00	Pass
	Middle	QPSK	Н	23.69	-1.93	1.22	22.98	33.00	Pass
LTE Band	Highest	QPSK	Н	23.38	-1.93	1.34	22.79	33.00	Pass
25(15M)	Lowest	16-QAM	Н	23.31	-1.93	1.13	22.51	33.00	Pass
, ,	Middle	16-QAM	Н	21.95	-1.93	1.22	21.24	33.00	Pass
	Highest	16-QAM	Н	23.44	-1.93	1.34	22.85	33.00	Pass

EUT	Channe	Modulat	Polari	SGP	Substitution	Cable	EIRP	Limit	Result
mode		ion	zation	[dBm]	Gain[dBi]	loss[dB]	(dBm)	(dBm)	
	Lowest	QPSK	Η	23.22	-1.93	1.13	22.42	33.00	Pass
	Middle	QPSK	Η	23.51	-1.93	1.22	22.80	33.00	Pass
LTE Band 25	Highest	QPSK	Н	21.83	-1.93	1.34	21.24	33.00	Pass
(20M)	Lowest	16-QAM	Н	23.26	-1.93	1.13	22.46	33.00	Pass
, ,	Middle	16-QAM	Η	23.11	-1.93	1.22	22.40	33.00	Pass
	Highest	16-QAM	Η	21.93	-1.93	1.34	21.34	33.00	Pass



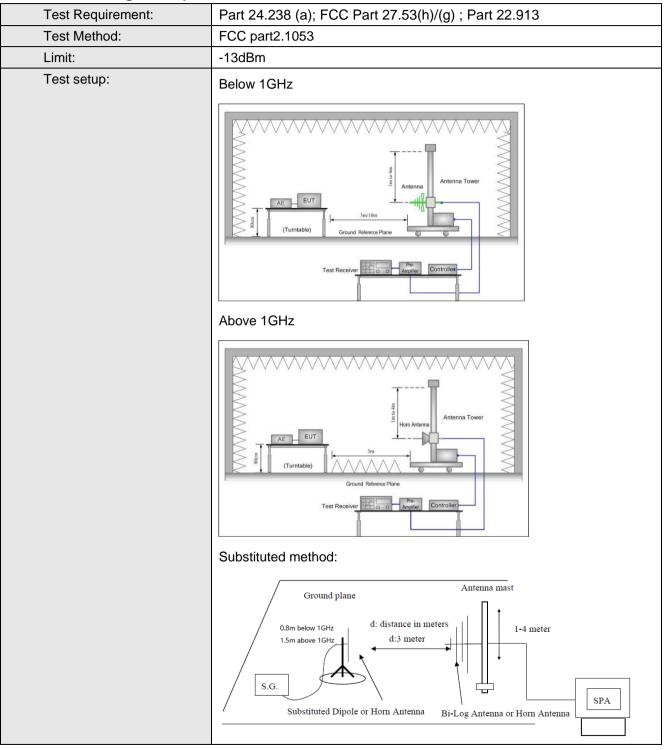
EUT mode	Channe I	Modulat ion	Polari zation	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Result
	Lowest	QPSK	Н	23.41	-2.08	1.55	22.88	38.45	Pass
	Middle	QPSK	Н	22.97	-2.08	1.6	22.49	38.45	Pass
LTE Band 26	Highest	QPSK	Н	21.63	-2.08	1.65	21.20	38.45	Pass
(5M)	Lowest	16-QAM	Η	23.28	-2.08	1.55	22.75	38.45	Pass
	Middle	16-QAM	Η	22.01	-2.08	1.6	21.53	38.45	Pass
	Highest	16-QAM	Н	23.38	-2.08	1.65	22.95	38.45	Pass

EUT	Channe	Modulat	Polari	SGP	Substitution	Cable	EIRP	Limit	Result
mode	I	ion	zation	[dBm]	Gain[dBi]	loss[dB]	(dBm)	(dBm)	
	Lowest	QPSK	Н	22.44	-2.08	1.55	21.91	38.45	Pass
	Middle	QPSK	Н	23.23	-2.08	1.6	22.75	38.45	Pass
LTE Band 26	Highest	QPSK	Н	23.74	-2.08	1.65	23.31	38.45	Pass
(10M)	Lowest	16-QAM	Н	22.16	-2.08	1.55	21.63	38.45	Pass
	Middle	16-QAM	Н	23.42	-2.08	1.6	22.94	38.45	Pass
	Highest	16-QAM	Н	23.01	-2.08	1.65	22.58	38.45	Pass

EUT mode	Channe I	Modulat ion	Polari zation	SGP [dBm]	Substitution Gain[dBi]	Cable loss[dB]	EIRP (dBm)	Limit (dBm)	Result
	Lowest	QPSK	Н	21.63	-2.08	1.55	21.10	38.45	Pass
	Middle	QPSK	Н	23.07	-2.08	1.6	22.59	38.45	Pass
LTE Band	Highest	QPSK	Н	23.06	-2.08	1.65	22.63	38.45	Pass
26(15M)	Lowest	16-QAM	Н	23.62	-2.08	1.55	23.09	38.45	Pass
, ,	Middle	16-QAM	Н	21.84	-2.08	1.6	21.36	38.45	Pass
	Highest	16-QAM	Н	21.64	-2.08	1.65	21.21	38.45	Pass



7.9 Field strength of spurious radiation measurement





Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	 During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.
	 The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) –
	Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass



Measurement Data

Remark:

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

QPSK mode:

Test mode:	LTE Band	12(5MHz)	Test channel:	Lowest
- (141)		Emission	11. 14. (15.)	Б. "
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1403.00	Н	-43.19		
2104.50	Н	-44.96	-13.00	
2806.00	Н	-45.42		Pass
3507.50	Н	-44.45		
4209.00	Н	-42.74		
1403.00	V	-45.12	_	
2104.50	V	-42.36		_
2806.00	V	-44.31	-13.00	Pass
3507.50	V	-45.43	_	
4209.00	•	-44.09		BA* 1 11
Test mode:		12(5MHz)	Test channel:	Middle
Frequency (MHz)	•	Emission	Limit (dBm)	Result
1 requeries (IVII 12)	Polarization	Level (dBm)	Ellin (dBill)	rtoodit
1415.00	Н	-44.08		Pass
2122.50	Н	-42.57		
2830.00	Н	-44.73	-13.00	
3537.50	Н	-44.95		
4245.00	Н	-42.61		
1415.00	V	-45.34		
2122.50	V	-45.76		
2830.00	V	-45.67	-13.00	Pass
3537.50	V	-42.73		
4245.00	V	-42.11		
Test mode:	LTE Band	12(5MHz)	Test channel:	Highest
Fraguesov (MILIT)	Spurious	Emission	Limit (dDm)	Dogult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1427.00	Н	-45.67		
2140.50	Н	-43.67		
2854.00	Н	-44.17	-13.00	Pass
3567.50	Н	-44.56		
4281.00	Н	-42.69		
1427.00	V	-44.01		
2140.50	V	-42.07		
2854.00	V	-42.61	-13.00	Pass
3567.50	V	-42.12		
4281.00	V	-43.93		



Test mode:	LTE Band	12(10MHz)	Test channel:	Lowest	
F (MIL)	Spurious	Emission	1: :: (15.)	6 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1408.00	Н	-44.77			
2112.00	Н	-44.66	-13.00		
2816.00	Н	-44.90		Pass	
3520.00	Н	-42.71			
4224.00	Н	-42.96			
1408.00	V	-45.39			
2112.00	V	-43.19			
2816.00	V	-44.67	-13.00	Pass	
3520.00	V	-42.46			
4224.00	V	-42.88			
Test mode:	LTE Band	12(10MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit	
1415.00	Ι	-45.75			
2122.50	Н	-45.34		Pass	
2830.00	Н	-45.73	-13.00		
3537.50	Н	-44.86			
4245.00	Н	-46.00			
1415.00	V	-45.33			
2122.50	V	-42.11		Pass	
2830.00	V	-44.25	-13.00		
3537.50	V	-42.24			
4245.00	V	-44.72			
Test mode:	LTE Band	12(10MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (IVII 12)	Polarization	Level (dBm)	Limit (abin)	Nesuit	
1422.00	Н	-45.28			
2133.00	Ι	-44.65			
2844.00	Η	-45.24	-13.00	Pass	
3555.00	Ι	-45.33			
4266.00	H	-44.53			
1422.00	V	-44.26			
2133.00	V	-44.56			
2844.00	V	-43.43	-13.00	Pass	
3555.00	V	-43.79			
4266.00	V	-43.66			



Test mode:	LTE Band	d 25(5MHz)	Test channel:	Lowest	
Farmer (MILL)	Spurious	Emission	L':'((JD)	D !!	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3705.00	Н	-42.54			
5557.50	Н	-43.38	-13.00		
7410.00	Н	-42.85		Pass	
9262.50	Н	-43.51			
11115.00	Н	-44.00			
3705.00	V	-45.51			
5557.50	V	-44.92			
7410.00	V	-43.58	-13.00	Pass	
9262.50	V	-43.36			
11115.00	V	-43.69			
Test mode:	LTE Band	25(5MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit	
3765.00	Η	-44.18			
5647.50	Н	-42.94		Pass	
7530.00	Н	-42.06	-13.00		
9412.50	Н	-42.16			
11295.00	Н	-42.44			
3765.00	V	-43.73			
5647.50	V	-44.93			
7530.00	V	-43.84	-13.00	Pass	
9412.50	V	-43.00			
11295.00	V	-42.15			
Test mode:	LTE Band	d 25(5MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (ivii iz)	Polarization	Level (dBm)	Limit (abin)	Nesuit	
3825.00	Н	-43.48			
5737.50	Η	-43.65			
7650.00	Н	-43.21	-13.00	Pass	
9562.50	Н	-44.36			
11475.00	Н	-44.70			
3825.00	V	-43.36			
5737.50	V	-45.84			
7650.00	V	-45.71	-13.00	Pass	
9562.50	V	-44.30			
11475.00	V	-44.95			



Test mode:	LTE Band	25(20MHz)	Test channel:	Lowest	
	Spurious	Emission	Limit (dDay)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3720.00	Н	-42.57			
5580.00	Н	-42.79	-13.00		
7440.00	Н	-42.14		Pass	
9300.00	Н	-42.85			
11160.00	Н	-45.81			
3720.00	V	-42.09			
5580.00	V	-44.18			
7440.00	V	-44.72	-13.00	Pass	
9300.00	V	-42.17			
11160.00	V	-42.45			
Test mode:	LTE Band	25(20MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (Wir 12)	Polarization	Level (dBm)	Lilliit (dbill)	Nesuit	
3765.00	Н	-43.09			
5647.50	Н	-43.41		Pass	
7530.00	Н	-45.62	-13.00		
9412.50	Н	-45.68			
11295.00	Н	-44.79			
3765.00	V	-44.97			
5647.50	V	-42.04			
7530.00	V	-42.56	-13.00	Pass	
9412.50	V	-45.26			
11295.00	V	-45.87			
Test mode:	LTE Band	25(20MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (wir iz)	Polarization	Level (dBm)	Lilliit (dbill)	Nesuit	
3810.00	Н	-44.28			
5715.00	Н	-44.98			
7620.00	Н	-43.23	-13.00	Pass	
9525.00	Н	-44.67			
11430.00	Н	-43.76			
3810.00	V	-45.53			
5715.00	V	-45.79	_		
7620.00	V	-44.15	-13.00	Pass	
9525.00	V	-43.72	_		
11430.00	V	-44.32			



Test mode:	LTE Band	d 26(5MHz)	Test channel:	Lowest	
Farmer (NALL)	Spurious	Emission	Line (CAD co)	D !!	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1653.00	Н	-43.15			
2479.50	Н	-43.54	-13.00		
3306.00	Н	-42.92		Pass	
4132.50	Н	-43.18			
4959.00	Н	-42.99			
1653.00	V	-43.82			
2479.50	V	-45.39			
3306.00	V	-44.25	-13.00	Pass	
4132.50	V	-42.52			
4959.00	V	-42.23			
Test mode:	LTE Band	26(5MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
1673.00	Ι	-42.18			
2509.50	Н	-43.26			
3346.00	Н	-44.60	-13.00	Pass	
4182.50	Ι	-44.67			
5019.00	Н	-42.54			
1673.00	V	-43.40			
2509.50	V	-42.52			
3346.00	V	-43.53	-13.00	Pass	
4182.50	V	-44.91			
5019.00	V	-44.77			
Test mode:	LTE Band	d 26(5MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
1693.00	Н	-43.59			
2539.50	Ι	-45.22			
3386.00	Η	-43.56	-13.00	Pass	
4232.50	Ι	-43.50			
5079.00	H	-42.42			
1693.00	V	-45.88			
2539.50	V	-45.98			
3386.00	V	-42.48	-13.00	Pass	
4232.50	V	-42.62	_		
5079.00	V	-43.16			



Test mode:	LTE Band	26(15MHz)	Test channel:	Lowest	
F (8411.)	Spurious	Emission	1: :: (15.)	6 "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1663.00	Н	-45.56			
2494.50	Н	-42.58	-13.00		
3326.00	Н	-45.36		Pass	
4157.50	Н	-42.61			
4989.00	Н	-42.89			
1663.00	V	-43.68			
2494.50	V	-42.76			
3326.00	V	-44.99	-13.00	Pass	
4157.50	V	-45.52			
4989.00	V	-44.60			
Test mode:	LTE Band	26(15MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
1673.00	Η	-43.03			
2509.50	Н	-45.39			
3346.00	Н	-45.54	-13.00	Pass	
4182.50	Н	-44.83			
5019.00	Н	-44.52			
1673.00	V	-45.35			
2509.50	V	-43.71		Pass	
3346.00	V	-45.15	-13.00		
4182.50	V	-45.51			
5019.00	V	-42.05			
Test mode:	LTE Band	26(15MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit	
1683.00	Н	-43.68			
2524.50	Η	-43.14			
3366.00	Н	-45.01	-13.00	Pass	
4207.50	Н	-43.48			
5049.00	Н	-45.29			
1683.00	V	-43.62			
2524.50	V	-45.79			
3366.00	V	-43.39	-13.00	Pass	
4207.50	V	-42.88			
5049.00	V	-42.32			



16QAM mode:

Test mode:	LTE Band	12(5MHz)	Test channel:	Lowest
F		Emission	11	D "
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1403.00	Н	-43.27		
2104.50	Н	-42.82	-13.00	
2806.00	Н	-45.95		Pass
3507.50	Н	-43.76		
4209.00	Н	-44.31		
1403.00	V	-44.71		
2104.50	V	-44.16		
2806.00	V	-43.17	-13.00	Pass
3507.50	V	-45.80		
4209.00	V	-45.91		
Test mode:	LTE Band	12(5MHz)	Test channel:	Middle
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit
1415.00	Н	-42.49		
2122.50	Н	-44.71		Pass
2830.00	Н	-45.76	-13.00	
3537.50	Н	-44.26		
4245.00	Н	-44.02		
1415.00	V	-45.16		
2122.50	V	-42.64		
2830.00	V	-45.65	-13.00	Pass
3537.50	V	-45.92		
4245.00	V	-42.73		
Test mode:	LTE Band	12(5MHz)	Test channel:	Highest
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
1 requericy (Wir 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit
1427.00	Н	-43.37		
2140.50	Н	-43.38	_	
2854.00	Н	-43.26	-13.00	Pass
3567.50	Н	-43.96	_	
4281.00	Н	-44.26		
1427.00	V	-45.92	_	
2140.50	V	-44.72	_	
2854.00	V	-42.26	-13.00	Pass
3567.50	V	-44.22	_	
4281.00	V	-45.85		



Test mode:	LTE Band	12(10MHz)	Test channel:	Lowest	
Farmer (NALL)	Spurious	Emission	L''(/ ID)	D #	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1408.00	Н	-42.85			
2112.00	Н	-45.03	-13.00		
2816.00	Н	-43.26		Pass	
3520.00	Н	-42.73			
4224.00	Н	-42.84			
1408.00	V	-44.94			
2112.00	V	-42.95			
2816.00	V	-44.93	-13.00	Pass	
3520.00	V	-44.12			
4224.00	V	-43.95			
Test mode:	LTE Band	12(10MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
1415.00	Ι	-43.88			
2122.50	Н	-43.95			
2830.00	Н	-44.62	-13.00	Pass	
3537.50	Н	-42.53			
4245.00	Н	-45.07			
1415.00	V	-42.05			
2122.50	V	-42.74			
2830.00	V	-44.92	-13.00	Pass	
3537.50	V	-42.55			
4245.00	V	-42.56			
Test mode:	LTE Band	12(10MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit	
1422.00	Н	-43.47			
2133.00	Ι	-43.42			
2844.00	Н	-42.38	-13.00	Pass	
3555.00	Η	-45.31			
4266.00	Н	-43.81			
1422.00	V	-42.86			
2133.00	V	-44.99			
2844.00	V	-42.93	-13.00	Pass	
3555.00	V	-45.62			
4266.00	V	-44.56			



Test mode:	LTE Band	d 25(5MHz)	Test channel:	Lowest	
Farmer (MILL)	Spurious	Emission	L''(/ ID)	D #	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3705.00	Н	-44.20			
5557.50	Н	-45.70	-13.00		
7410.00	Н	-44.56		Pass	
9262.50	Н	-42.91			
11115.00	Н	-43.70			
3705.00	V	-42.95			
5557.50	V	-44.79			
7410.00	V	-42.12	-13.00	Pass	
9262.50	V	-44.07			
11115.00	V	-44.72			
Test mode:	LTE Band	d 25(5MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
3765.00	Η	-44.41			
5647.50	Н	-43.70			
7530.00	Н	-45.41	-13.00	Pass	
9412.50	Η	-43.57			
11295.00	Н	-43.75			
3765.00	V	-44.21			
5647.50	V	-45.91			
7530.00	V	-44.94	-13.00	Pass	
9412.50	V	-45.93			
11295.00	V	-44.94			
Test mode:	LTE Band	d 25(5MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (Wir 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
3825.00	Н	-44.08			
5737.50	Н	-44.01			
7650.00	Н	-42.17	-13.00	Pass	
9562.50	Н	-44.48			
11475.00	Н	-44.72			
3825.00	V	-44.29			
5737.50	V	-43.22			
7650.00	V	-42.69	-13.00	Pass	
9562.50	V	-43.16			
11475.00	V	-45.39			



Test mode:	LTE Band	25(20MHz)	Test channel:	Lowest	
	Spurious	Emission	Limit (dDay)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3720.00	Н	-45.55			
5580.00	Н	-45.98	-13.00		
7440.00	Н	-45.19		Pass	
9300.00	Н	-44.51			
11160.00	Н	-42.51			
3720.00	V	-45.35			
5580.00	V	-42.45			
7440.00	V	-42.99	-13.00	Pass	
9300.00	V	-43.41			
11160.00	V	-42.05			
Test mode:	LTE Band	25(20MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (Wir 12)	Polarization	Level (dBm)	Lilliit (dbill)	Nesuit	
3765.00	Н	-43.53			
5647.50	Н	-42.22			
7530.00	Н	-43.13	-13.00	Pass	
9412.50	Н	-44.07			
11295.00	Н	-45.61			
3765.00	V	-44.68			
5647.50	V	-43.20		Pass	
7530.00	V	-44.17	-13.00		
9412.50	V	-42.59			
11295.00	V	-43.17			
Test mode:	LTE Band	25(20MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
r requericy (wir iz)	Polarization	Level (dBm)	Lilliit (dbill)	Nesuit	
3810.00	Н	-44.21			
5715.00	Н	-42.80			
7620.00	Н	-42.54	-13.00	Pass	
9525.00	Н	-45.40			
11430.00	Н	-45.78			
3810.00	V	-45.60			
5715.00	V	-42.58	_		
7620.00	V	-43.89	-13.00	Pass	
9525.00	V	-42.67	_		
11430.00	V	-43.34			



Test mode:	LTE Band	d 26(5MHz)	Test channel:	Lowest	
Farmer (NALL)	Spurious	Emission	L''(/ ID)	D II	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1653.00	Н	-43.17			
2479.50	Н	-43.19	-13.00		
3306.00	Н	-42.08		Pass	
4132.50	Н	-42.52			
4959.00	Н	-43.34			
1653.00	V	-43.58			
2479.50	V	-45.09			
3306.00	V	-43.01	-13.00	Pass	
4132.50	V	-43.70			
4959.00	V	-42.31			
Test mode:	LTE Band	26(5MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
1673.00	Η	-45.48			
2509.50	Н	-42.71			
3346.00	Н	-45.92	-13.00	Pass	
4182.50	Η	-45.48			
5019.00	Н	-45.66			
1673.00	V	-42.91			
2509.50	V	-43.82			
3346.00	V	-42.92	-13.00	Pass	
4182.50	V	-44.77			
5019.00	V	-44.11			
Test mode:	LTE Band	d 26(5MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Kesuit	
1693.00	Н	-44.91			
2539.50	Η	-44.00			
3386.00	Η	-45.88	-13.00	Pass	
4232.50	Η	-42.96			
5079.00	H	-43.35			
1693.00	V	-45.87			
2539.50	V	-42.45			
3386.00	V	-43.13	-13.00	Pass	
4232.50	V	-43.03			
5079.00	V	-45.89			



Test mode:	LTE Band	26(15MHz)	Test channel:	Lowest	
Farmer (NALL)	Spurious	Emission	Line (CAD ex)	D #	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1663.00	Н	-43.58			
2494.50	Н	-42.73	-13.00		
3326.00	Н	-44.85		Pass	
4157.50	Н	-43.89			
4989.00	Н	-43.85			
1663.00	V	-43.75			
2494.50	V	-43.01			
3326.00	V	-42.39	-13.00	Pass	
4157.50	V	-44.10			
4989.00	V	-44.00			
Test mode:	LTE Band	26(15MHz)	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Kesuit	
1673.00	Н	-44.33			
2509.50	Н	-43.84			
3346.00	Н	-43.67	-13.00	Pass	
4182.50	Н	-42.20			
5019.00	Н	-45.28			
1673.00	V	-45.15			
2509.50	V	-45.25			
3346.00	V	-43.56	-13.00	Pass	
4182.50	V	-42.01			
5019.00	V	-44.25			
Test mode:	LTE Band	26(15MHz)	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (IVII 12)	Polarization	Level (dBm)	Lilliit (dbill)	Nesuit	
1683.00	Н	-44.19			
2524.50	Н	-42.80			
3366.00	Н	-43.93	-13.00	Pass	
4207.50	Н	-44.15			
5049.00	Н	-42.07			
1683.00	V	-45.67			
2524.50	V	-43.40			
3366.00	V	-45.21	-13.00	Pass	
4207.50	V	-45.63	_		
5049.00	V	-43.77			



7.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)		
Test Method:	FCC Part2.1055(a)(1)(b)		
Limit:	2.5ppm		
Test setup:	Spectrum analyzer EUT Variable Power Supply Note: Measurement setup for testing on Antenna connector		
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached. 		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 7.1 for details		
Test results:	Pass		



Measurement Data

OPSK mode:

QPSK mode:						
F	Reference Frequenc	y: LTE Band 12	Middle channel 7	707.5MHz		
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result	
1 ower supplied (vdc)	remperature (C)	Hz	ppm		Result	
	-30	123	0.0654			
	-20	139	0.0740			
	-10	117	0.0625			
	0	96	0.0509			
12.0	10	112	0.0596	2.5	Pass	
	20	96	0.0509			
	30	161	0.0856			
	40	145	0.0769			
	50	139	0.0740			
R	Reference Frequency: LTE Band 25 Middle channel 1882.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result	
Power Supplied (vdc)	remperature (C)	Hz	ppm		Result	
	-30	92	0.0533	2.5	Pass	
	-20	102	0.0589			
	-10	88	0.0505			
	0	78	0.0449			
12.0	10	83	0.0477			
	20	73	0.0421			
	30	126	0.0729			
	40	107	0.0617			
	50	102	0.0589			
F	Reference Frequenc	y: LTE Band 26	Middle channel 8	336.5MHz		
Power supplied (Vdc)	Tomporature (°C) Frequency error			Result		
rowei supplied (vac)	Temperature (°C)	Hz	ppm		Nesult	
	-30	116	0.0458			
	-20	134	0.0527			
	-10	112	0.0444			
	0	98	0.0388			
12.0	10	110	0.0432	2.5	Pass	
	20	96	0.0379			
	30	159	0.0629			
	40	139	0.0550			
	50	132	0.0521			



16QAM mode:

16QAM mode:	Reference Frequenc	y: LTE Band 12	Middle channel	707.5MHz	
	Frequency error				
Power supplied (Vdc)	ed (Vdc) Temperature (°C)	Hz	ppm		Result
	-30	109	0.0580		
	-20	123	0.0656		
	-10	104	0.0555		
	0	85	0.0453		
12.0	10	99	0.0529	2.5	Pass
	20	85	0.0453		
	30	142	0.0758		
	40	128	0.0681		
	50	123	0.0656		
R	eference Frequency	/: LTE Band 25 N	Middle channel 1	882.5MHz	
Dower aupplied (\/de)	Tomporature (%C)	Frequer	Frequency error		Dogult
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result
	-30	76	0.0438		Pass
	-20	84	0.0484	2.5	
	-10	72	0.0415		
	0	64	0.0369		
12.0	10	68	0.0392		
	20	60	0.0346		
	30	104	0.0599		
	40	88	0.0507		
	50	84	0.0484		
F	Reference Frequenc	y: LTE Band 26	Middle channel	836.5MHz	
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
rower supplied (vac)	Temperature (*C)	Hz	ppm		Nesuit
	-30	140	0.0552		
	-20	161	0.0636		
	-10	136	0.0535		
	0	118	0.0467		
12.0	10	132	0.0521	2.5	Pass
	20	116	0.0456		
	30	193	0.0760		
	40	168	0.0664		
	50	159	0.0629		



7.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)		
Test Method:	FCC Part2.1055(d)(1)(2)		
Limit:	2.5ppm		
Test setup:	Spectrum analyzer EUT Variable Power Supply Note: Measurement setup for testing on Antenna connector		
Test procedure:	 Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change. 		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 7.1 for details		
Test results:	Pass		



Measurement Data QPSK mode:

QF3K IIIode.						
F	Reference Frequency: LTE Band 12 Middle channel 707.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (nnm)	Result	
		Hz	ppm	Limit (ppm)	Nesuit	
	8	64	0.0339			
25	12	74	0.0391	2.5	Pass	
	30	83	0.0443			
Reference Frequency: LTE Band 25 Middle channel 1882.5MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (nnm)	Result	
remperature (C)	(Vdc)	Hz	ppm	- Limit (ppm)	Result	
	8	128	0.0738			
25	12	93	0.0534	2.5	Pass	
	30	104	0.0602		<u> </u>	
Reference Frequency: LTE Band 26 Middle channel 836.5MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature (O)	(Vdc)	Hz	ppm	ши (ррии)	Nesuit	
	8	138	0.1947			
25	12	157	0.2219	2.5	Pass	
	30	176	0.2484			



16QAM mode:

Reference Frequency: LTE Band 12 Middle channel 707.5MHz						
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result	
		Hz	ppm	Limit (ppm)	Result	
	8	83	0.1169			
25	12	100	0.1420	2.5	Pass	
	30	100	0.1420			
Reference Frequency: LTE Band 25 Middle channel 1882.5MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature (0)	(Vdc)	Hz	ppm	Lilliit (ppill)	Nesult	
	8	178	0.2501			
25	12	132	0.1856	2.5	Pass	
	30	141	0.1985			
F	Reference Frequency: LTE Band 26 Middle channel 836.5MHz					
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature (0)	(Vdc)	Hz	ppm	шик (ррии)	Nesuit	
25	8	181	0.0963			
	12	208	0.1104	2.5	Pass	
	30	209	0.1110			



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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