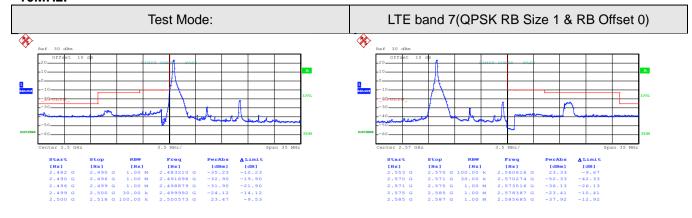




10MHz:

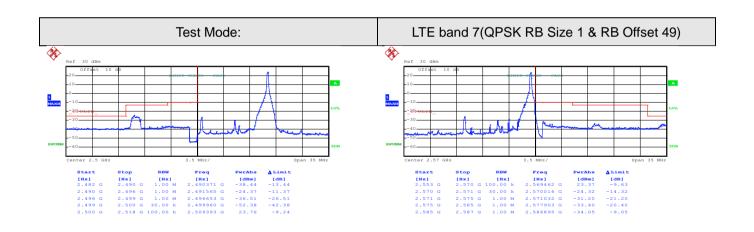


Date: 4.DEC.2016 05:37:00

Date: 4.DEC.2016 05:39:44

Lowest channel

Highest channel



Date: 4.DEC.2016 05:37:22

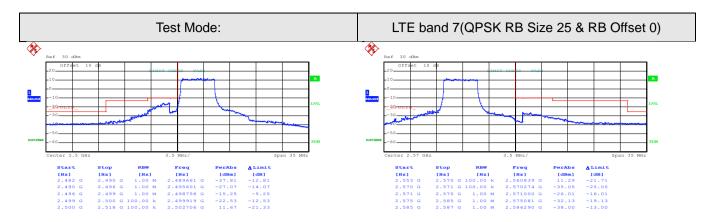
Date: 4.DEC.2016 05:40:08

Lowest channel

Highest channel





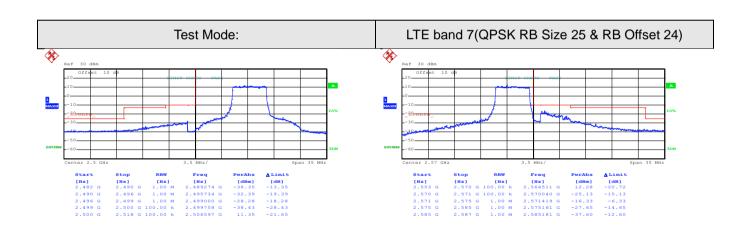


Date: 4.DEC.2016 05:38:11

Date: 4.DEC.2016 05:40:45

Lowest channel

Highest channel



Date: 4.DEC.2016 05:38:33

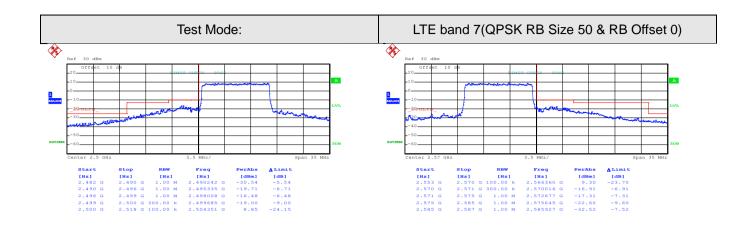
Date: 4.DEC.2016 05:41:12

Lowest channel

Highest channel





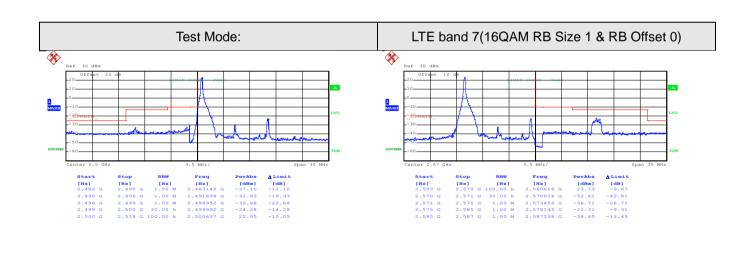


Date: 4.DEC.2016 05:39:08

Date: 4.DEC.2016 05:41:49

Lowest channel

Highest channel



Date: 4.DEC.2016 05:37:08

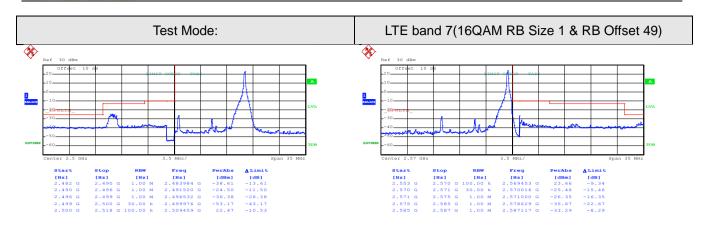
Date: 4.DEC.2016 05:39:53

Lowest channel

Highest channel



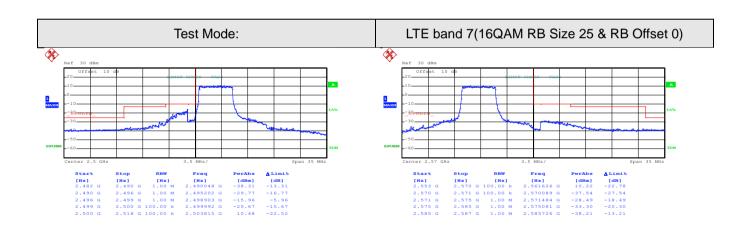




Date: 4.DEC.2016 05:37:35

Lowest channel

Highest channel



Date: 4.DEC.2016 05:38:20

Date: 4.DEC.2016 05:40:56

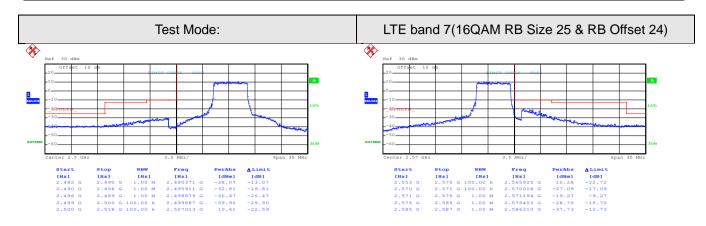
Date: 4.DEC.2016 05:40:19

Lowest channel

Highest channel





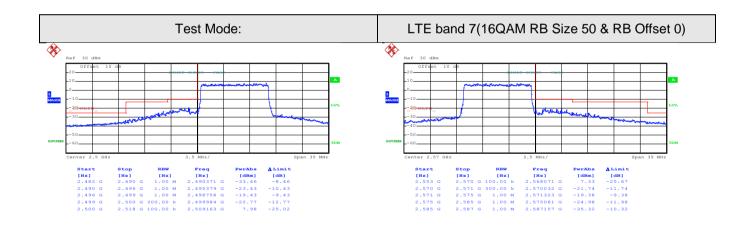


Date: 4.DEC.2016 05:38:43

Date: 4.DEC.2016 05:41:23

Lowest channel

Highest channel



Date: 4.DEC.2016 05:39:15

Date: 4.DEC.2016 05:41:58

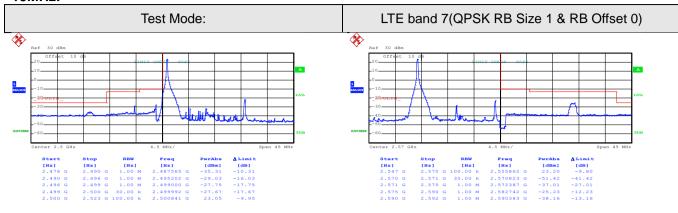
Lowest channel

Highest channel





15MHz:

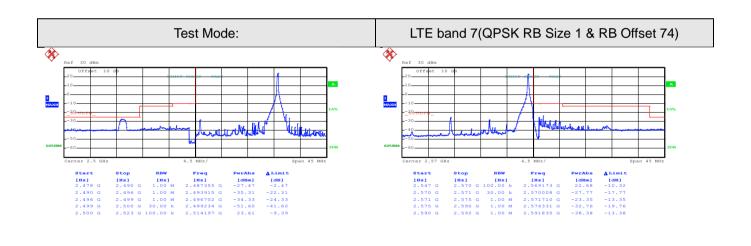


Date: 4.DEC.2016 05:43:21

Date: 4.DEC.2016 05:46:38

Lowest channel

Highest channel



Date: 4.DEC.2016 05:43:47

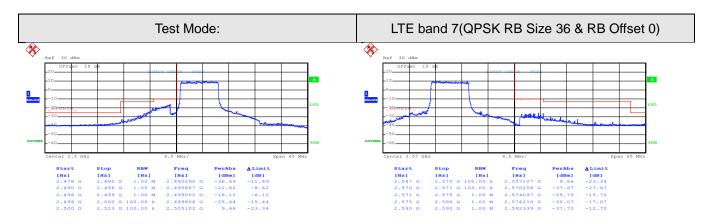
Date: 4.DEC.2016 05:47:10

Lowest channel

Highest channel





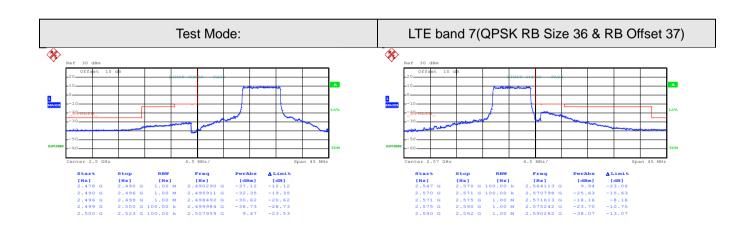


Date: 4.DEC.2016 05:44:37

Date: 4.DEC.2016 05:47:52

Lowest channel

Highest channel



Date: 4.DEC.2016 05:45:11

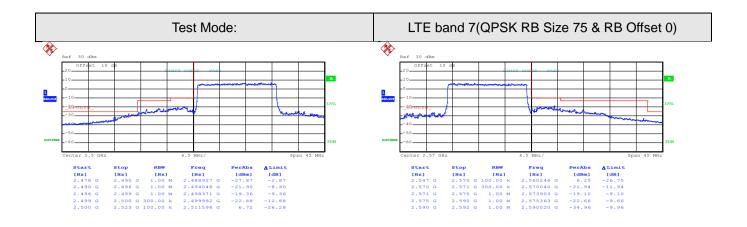
Date: 4.DEC.2016 05:48:20

Lowest channel

Highest channel





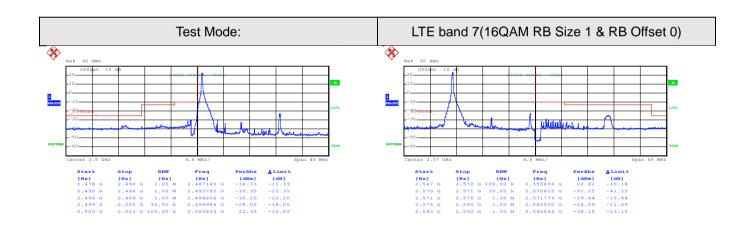


Date: 4.DEC.2016 05:45:51

Date: 4.DEC.2016 05:48:57

Lowest channel

Highest channel



Date: 4.DEC.2016 05:43:32

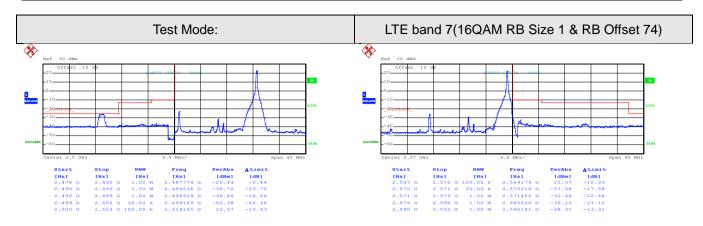
Date: 4.DEC.2016 05:46:51

Lowest channel

Highest channel





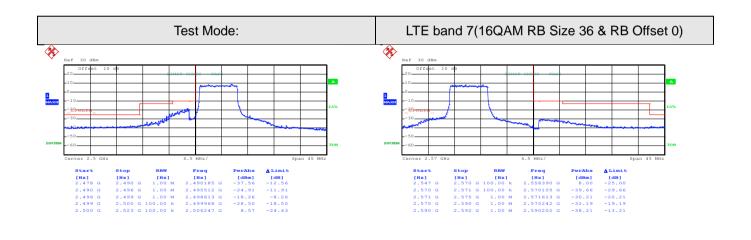


Date: 4.DEC.2016 05:44:01

Date: 4.DEC.2016 05:47:23

Lowest channel

Highest channel



Date: 4.DEC.2016 05:44:47

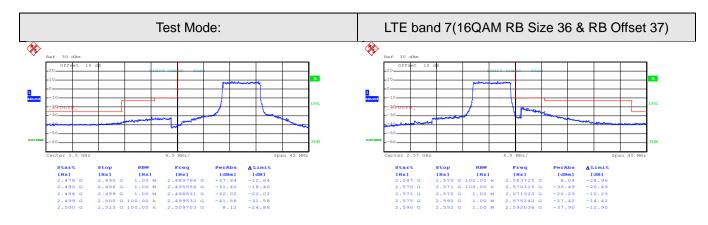
Date: 4.DEC.2016 05:48:03

Lowest channel

Highest channel





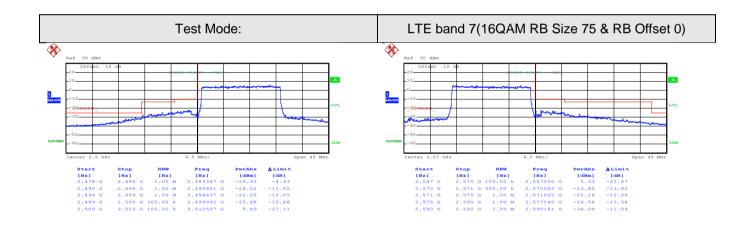


Date: 4.DEC.2016 05:45:24

Date: 4.DEC.2016 05:48:32

Lowest channel

Highest channel



Date: 4.DEC.2016 05:46:03

Date: 4.DEC.2016 05:49:08

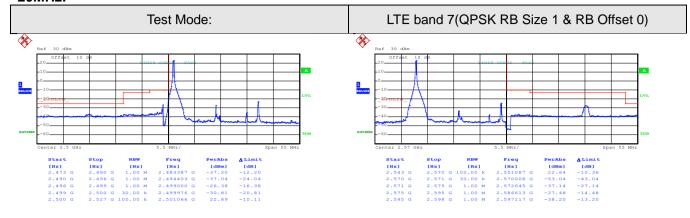
Lowest channel

Highest channel





20MHz:

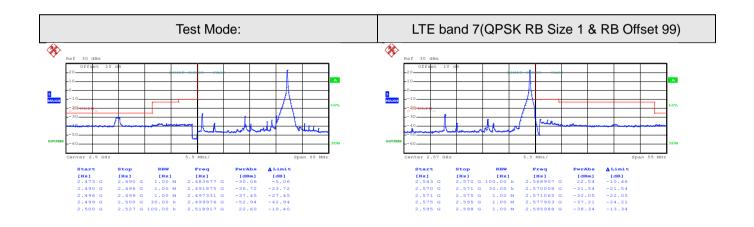


Date: 4.DEC.2016 05:51:53

Date: 4.DEC.2016 05:55:09

Lowest channel

Highest channel



Date: 4.DEC.2016 05:52:17

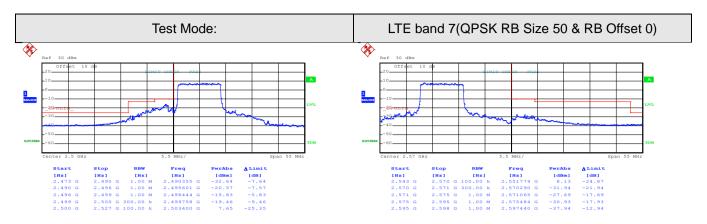
Date: 4.DEC.2016 05:55:37

Lowest channel

Highest channel





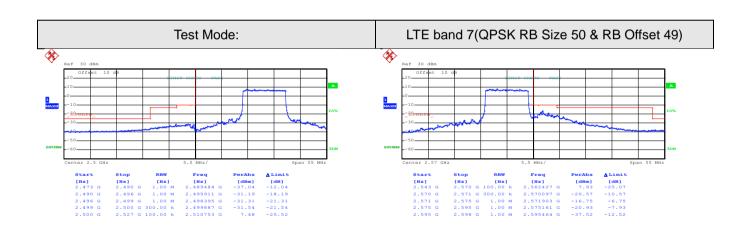


Date: 4.DEC.2016 05:53:07

Date: 4.DEC.2016 05:56:19

Lowest channel

Highest channel



Date: 4.DEC.2016 05:53:51

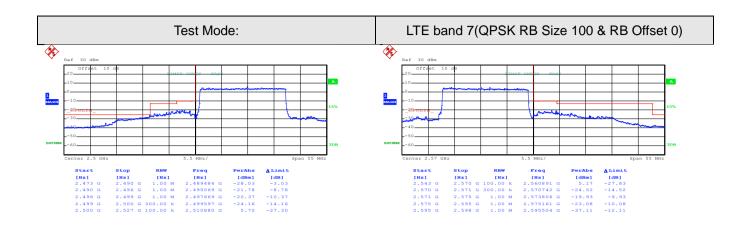
Date: 4.DEC.2016 06:00:07

Lowest channel

Highest channel





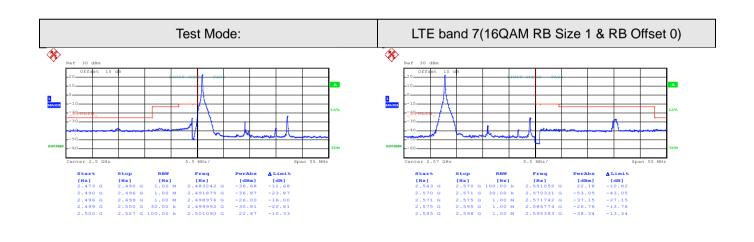


Date: 4.DEC.2016 05:54:21

Date: 4.DEC.2016 05:56:47

Lowest channel

Highest channel



Date: 4.DEC.2016 05:52:03

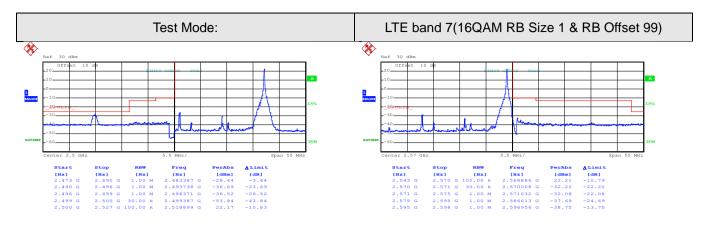
Date: 4.DEC.2016 05:55:22

Lowest channel

Highest channel





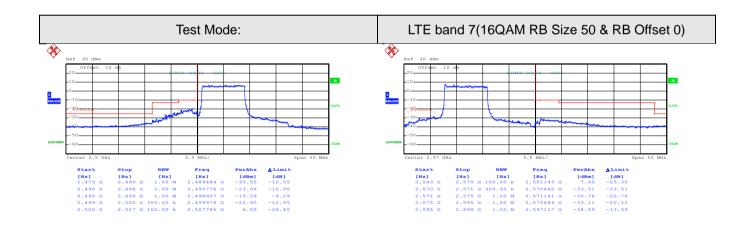


Date: 4.DEC.2016 05:52:36

Date: 4.DEC.2016 05:55:49

Lowest channel

Highest channel



Date: 4.DEC.2016 05:53:23

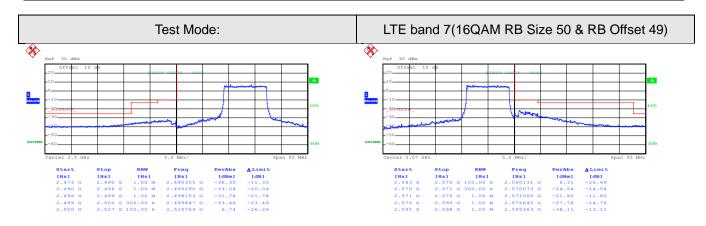
Date: 4.DEC.2016 05:56:32

Lowest channel

Highest channel





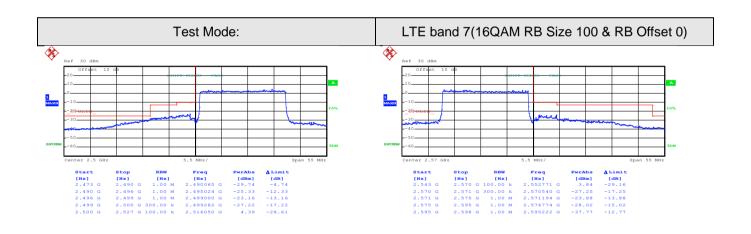


Date: 4.DEC.2016 05:54:04

Date: 4.DEC.2016 06:00:19

Lowest channel

Highest channel



Date: 4.DEC.2016 05:54:33

Date: 4.DEC.2016 05:56:57

Lowest channel

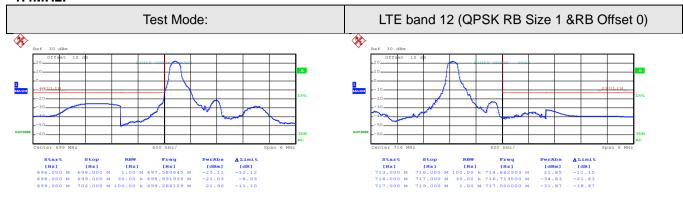
Highest channel





LTE band 12 part:

1.4MHz:

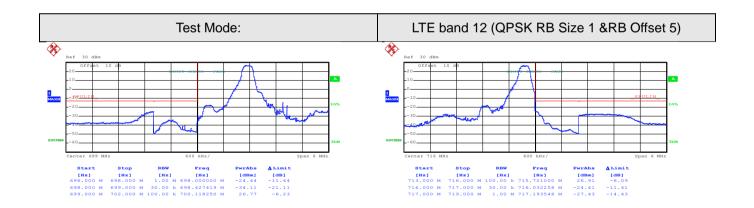


Date: 5.DEC.2016 18:03:55

Date: 5.DEC.2016 18:06:03

Lowest channel

Highest channel



Date: 4.DEC.2016 04:44:42

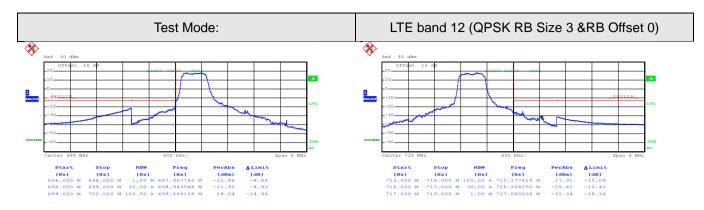
Date: 4.DEC.2016 04:46:01

Lowest channel

Highest channel



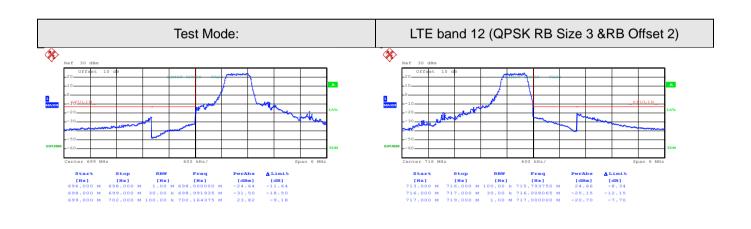




Date: 5.DEC.2016 18:04:19 Date: 5.DEC.2016 18:06:31

Lowest channel

Highest channel



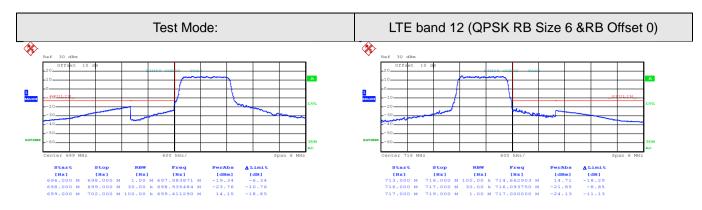
Date: 4.DEC.2016 04:45:14 Date: 4.DEC.2016 04:46:30

Lowest channel

Highest channel



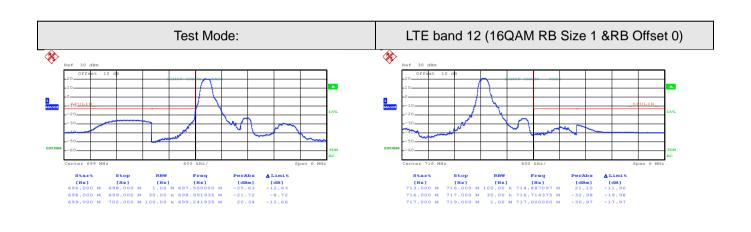




Date: 5.DEC.2016 18:04:42 Date: 5.DEC.2016 18:06:57

Lowest channel

Highest channel



Date: 5.DEC.2016 18:04:04

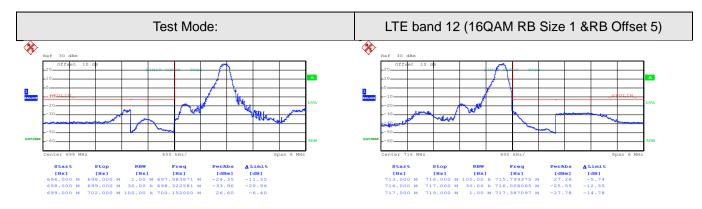
Date: 5.DEC.2016 18:06:16

Lowest channel

Highest channel



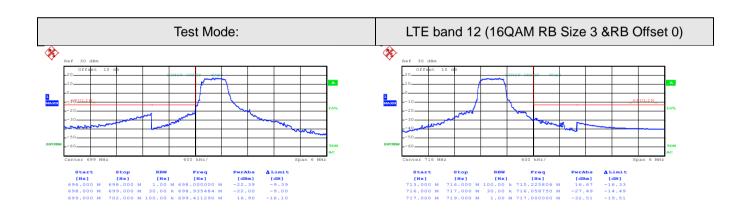




Date: 4.DEC.2016 04:44:53

Lowest channel

Highest channel



Date: 5.DEC.2016 18:04:28

Date: 5.DEC.2016 18:06:40

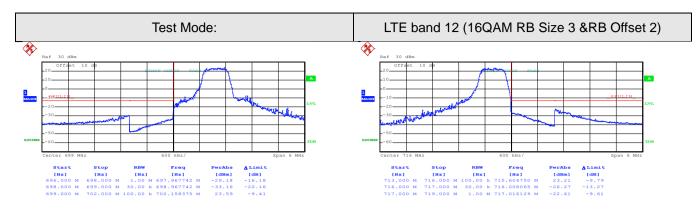
Date: 4.DEC.2016 04:46:13

Lowest channel

Highest channel



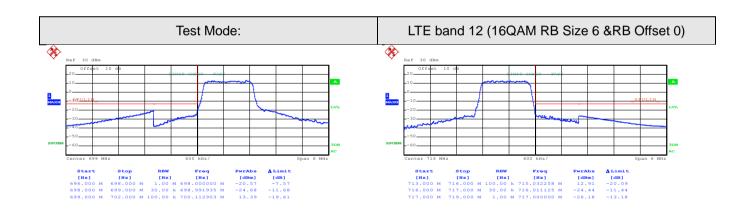




Date: 4.DEC.2016 04:45:26

Lowest channel

Highest channel



Date: 5.DEC.2016 18:04:50

Date: 5.DEC.2016 18:07:05

Date: 4.DEC.2016 04:46:42

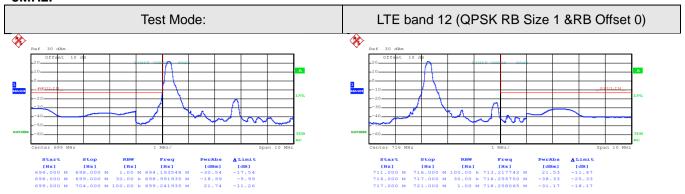
Lowest channel

Highest channel





3MHz:

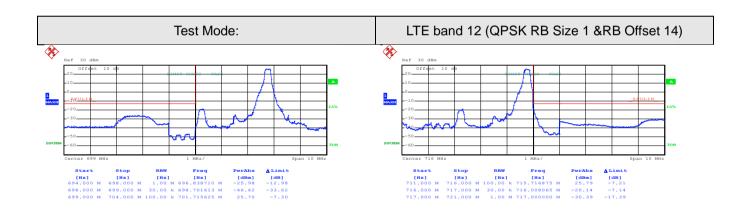


Date: 5.DEC.2016 18:08:18

Date: 5.DEC.2016 18:11:03

Lowest channel

Highest channel



Date: 4.DEC.2016 04:47:41

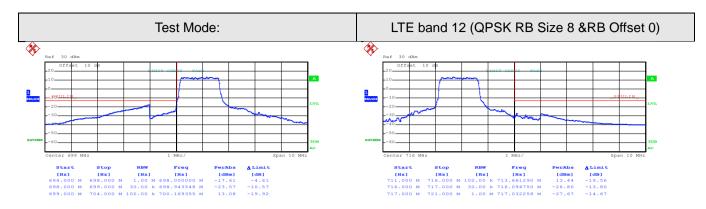
Date: 4.DEC.2016 04:49:25

Lowest channel

Highest channel



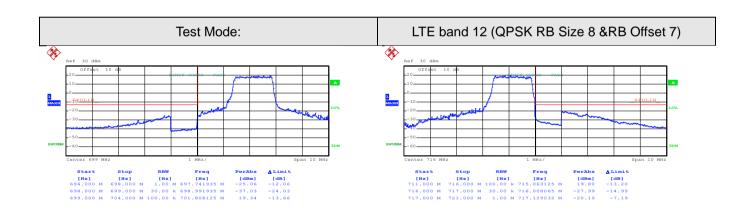




Date: 5.DEC.2016 18:09:47

Lowest channel

Highest channel



Date: 4.DEC.2016 04:48:24

Date: 4.DEC.2016 04:49:54

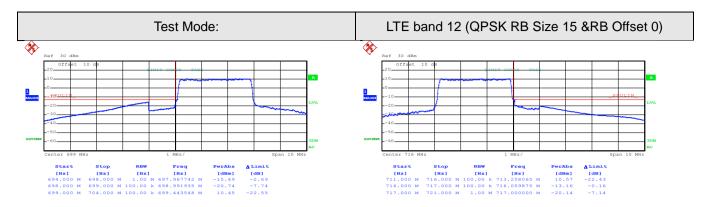
Date: 5.DEC.2016 18:11:28

Lowest channel

Highest channel





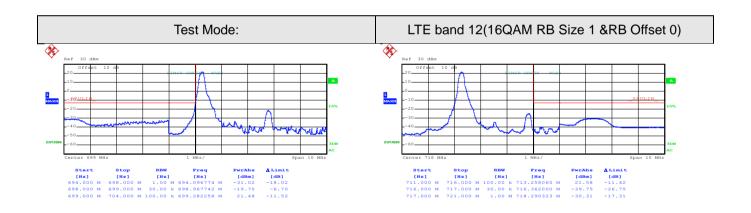


Date: 5.DEC.2016 18:10:21

Date: 5.DEC.2016 18:12:02

Lowest channel

Highest channel



Date: 5.DEC.2016 18:08:27

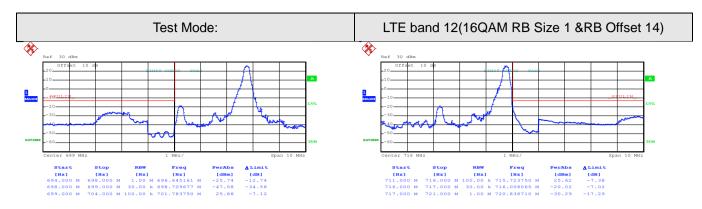
Date: 5.DEC.2016 18:11:12

Lowest channel

Highest channel



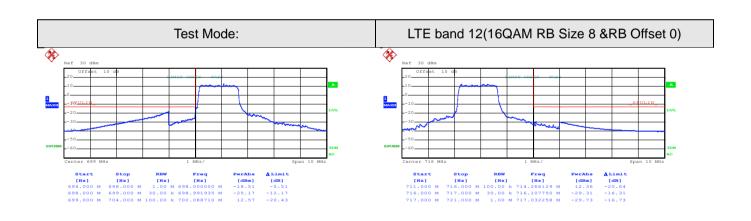




Date: 4.DEC.2016 04:48:07 Date: 4.DEC.2016 04:49:36

Lowest channel

Highest channel

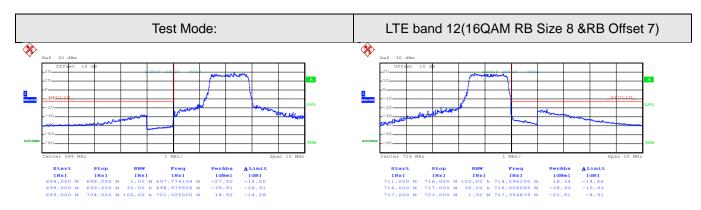


Date: 5.DEC.2016 18:09:56 Date: 5.DEC.2016 18:11:39

Lowest channel Highest channel



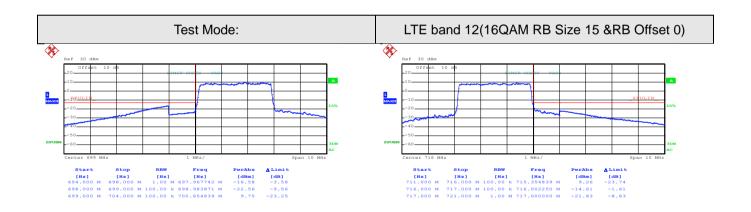




Date: 4.DEC.2016 04:48:36

Lowest channel

Highest channel



Date: 5.DEC.2016 18:10:29

Date: 5.DEC.2016 18:12:09

Date: 4.DEC.2016 04:50:05

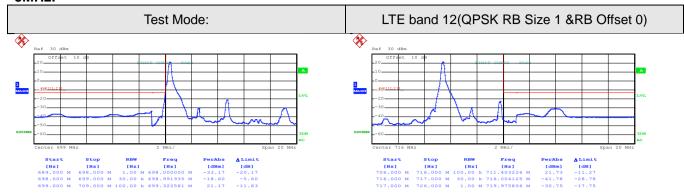
Lowest channel

Highest channel





5MHz:

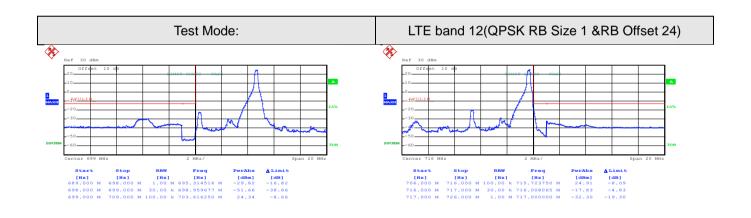


Date: 5.DEC.2016 18:13:20

Date: 5.DEC.2016 18:15:11

Lowest channel

Highest channel



Date: 4.DEC.2016 04:51:02

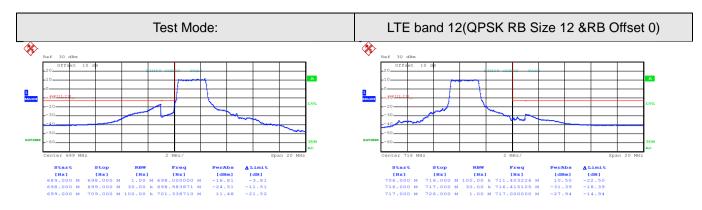
Date: 4.DEC.2016 04:52:24

Lowest channel

Highest channel



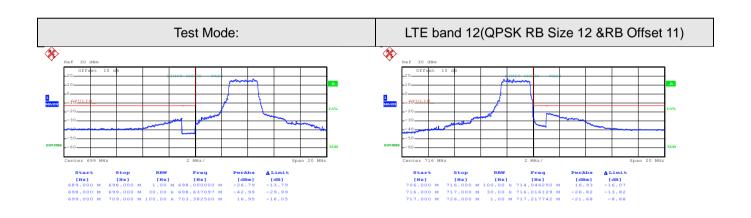




Date: 5.DEC.2016 18:13:54

Lowest channel

Highest channel



Date: 4.DEC.2016 04:51:34

Date: 4.DEC.2016 04:52:56

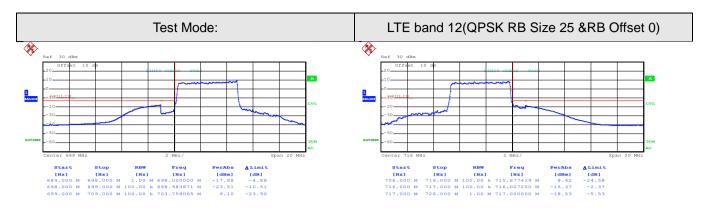
Date: 5.DEC.2016 18:15:39

Lowest channel

Highest channel



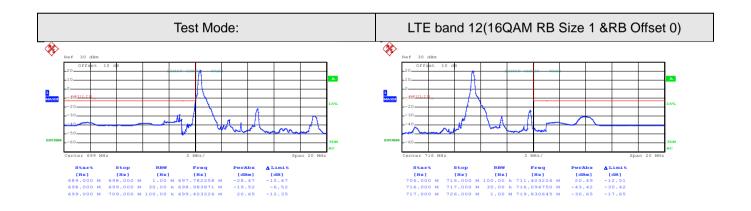




Date: 5.DEC.2016 18:14:29

Lowest channel

Highest channel



Date: 5.DEC.2016 18:13:29

Date: 5.DEC.2016 18:15:20

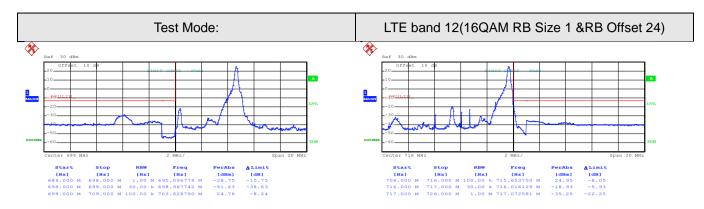
Date: 5.DEC.2016 18:16:07

Lowest channel

Highest channel



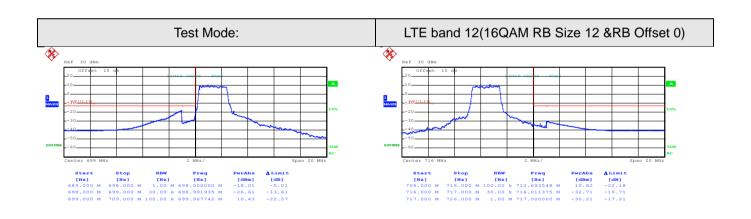




Date: 4.DEC.2016 04:51:12

Lowest channel

Highest channel



Date: 5.DEC.2016 18:14:02

Date: 5.DEC.2016 18:15:48

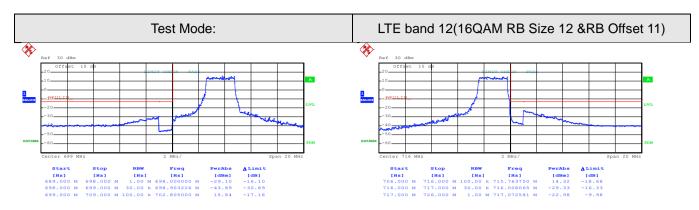
Date: 4.DEC.2016 04:52:35

Lowest channel

Highest channel





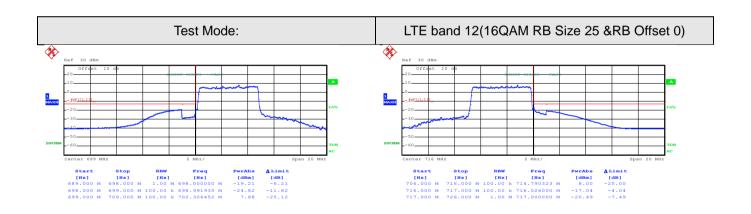


Date: 4.DEC.2016 04:51:46

Date: 4.DEC.2016 04:53:09

Lowest channel

Highest channel



Date: 5.DEC.2016 18:14:38

Date: 5.DEC.2016 18:16:15

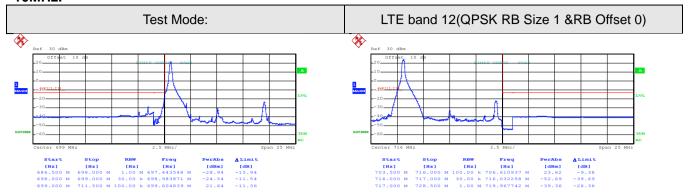
Lowest channel

Highest channel





10MHz:

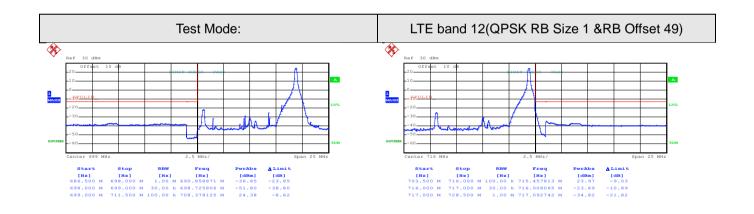


Date: 5.DEC.2016 18:18:10

Date: 5.DEC.2016 18:28:51

Lowest channel

Highest channel



Date: 4.DEC.2016 04:54:43

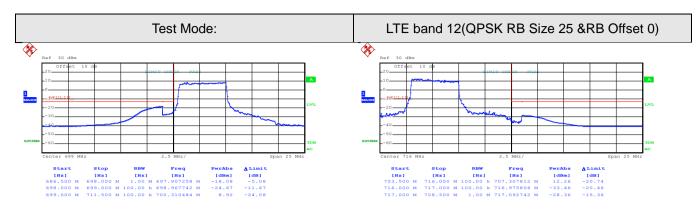
Date: 4.DEC.2016 04:56:35

Lowest channel

Highest channel



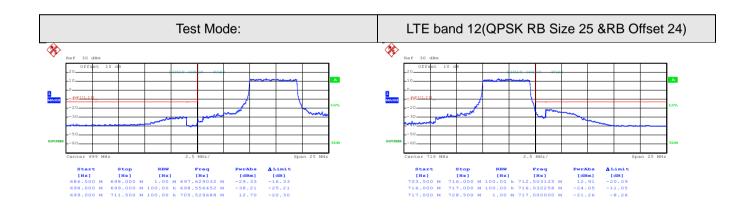




Date: 5.DEC.2016 18:19:27 Date: 5.DEC.2016 18:30:07

Lowest channel

Highest channel

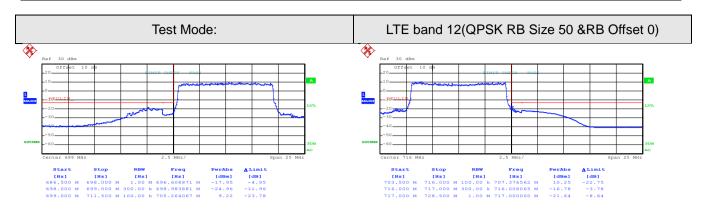


Date: 4.DEC.2016 04:55:44 Date: 4.DEC.2016 04:57:23

Lowest channel Highest channel





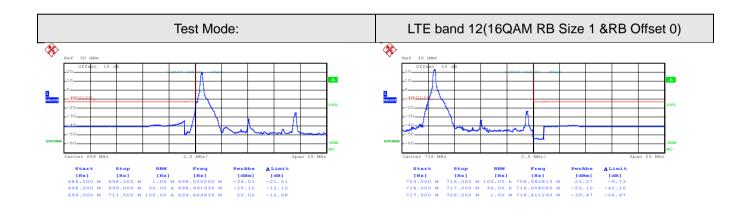


Date: 5.DEC.2016 18:28:03

Date: 5.DEC.2016 18:30:40

Lowest channel

Highest channel



Date: 5.DEC.2016 18:18:20

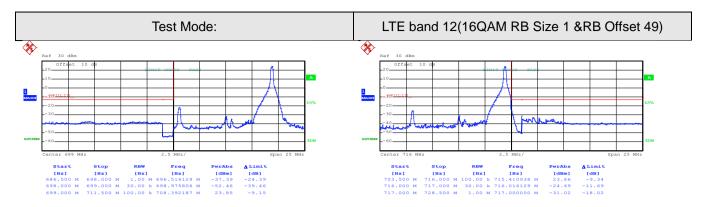
Date: 5.DEC.2016 18:29:43

Lowest channel

Highest channel





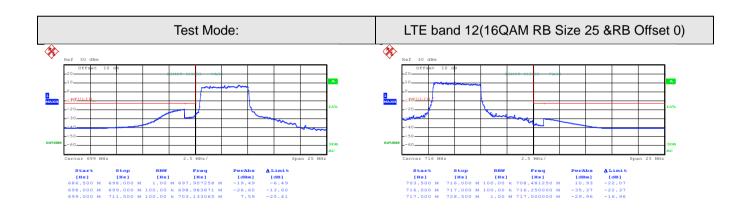


Date: 4.DEC.2016 04:54:56

Date: 4.DEC.2016 04:56:47

Lowest channel

Highest channel



Date: 5.DEC.2016 18:19:36

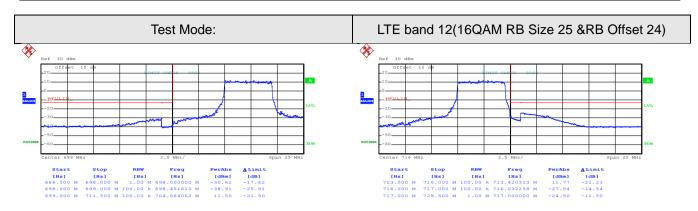
Date: 5.DEC.2016 18:30:16

Lowest channel

Highest channel



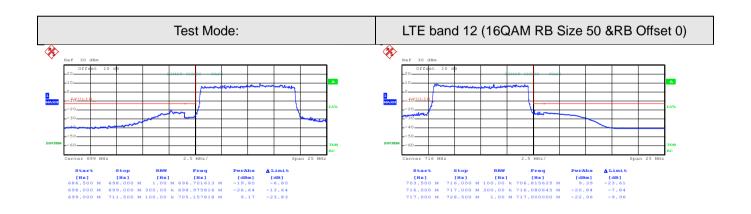




Date: 4.DEC.2016 04:55:58 Date: 4.DEC.2016 04:57:36

Lowest channel

Highest channel



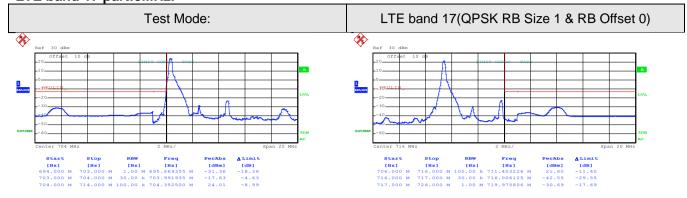
Date: 5.DEC.2016 18:28:10 Date: 5.DEC.2016 18:30:48

Lowest channel Highest channel





LTE band 17 part:5MHz:

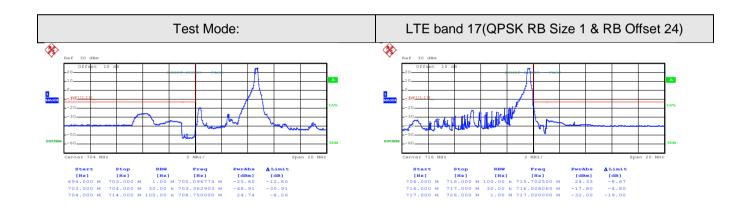


Date: 5.DEC.2016 17:44:15

Date: 5.DEC.2016 17:49:41

Lowest channel

Highest channel



Date: 4.DEC.2016 05:00:42

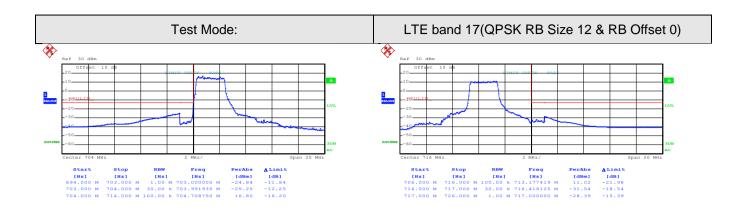
Date: 4.DEC.2016 05:02:12

Lowest channel

Highest channel





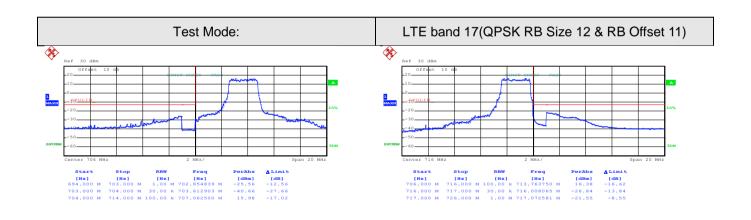


Date: 5.DEC.2016 17:45:10

Date: 5.DEC.2016 17:50:15

Lowest channel

Highest channel



Date: 4.DEC.2016 05:01:21

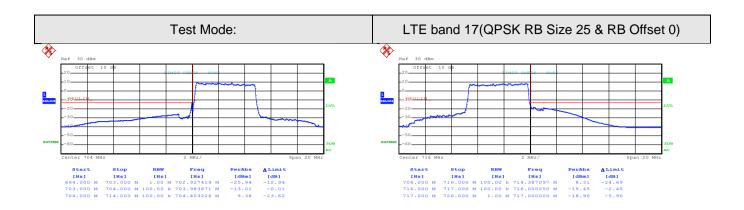
Date: 4.DEC.2016 05:02:42

Lowest channel

Highest channel





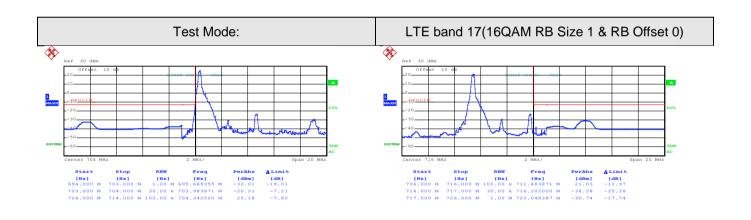


Date: 5.DEC.2016 17:48:43

Date: 5.DEC.2016 17:51:42

Lowest channel

Highest channel



Date: 5.DEC.2016 17:44:35

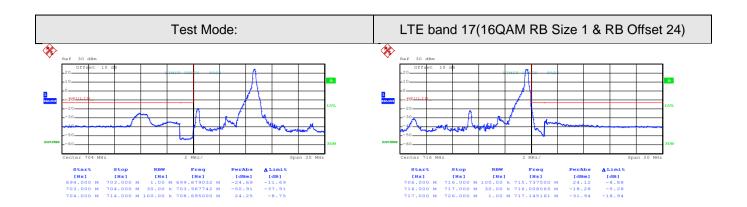
Date: 5.DEC.2016 17:49:54

Lowest channel

Highest channel





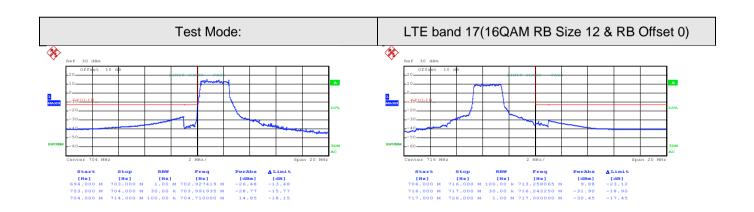


Date: 4.DEC.2016 05:00:56

Date: 4.DEC.2016 05:02:24

Lowest channel

Highest channel



Date: 5.DEC.2016 17:45:20

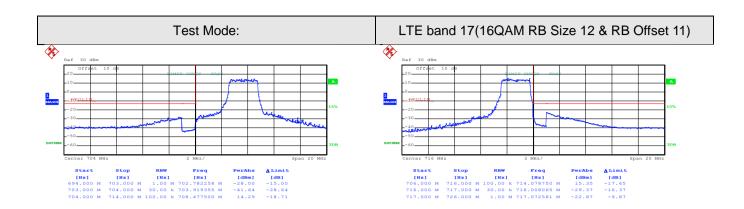
Date: 5.DEC.2016 17:50:27

Lowest channel

Highest channel





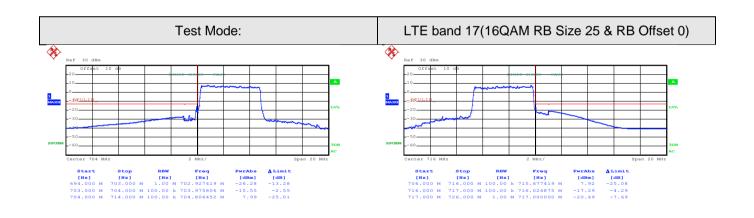


Date: 4.DEC.2016 05:01:35

Date: 4.DEC.2016 05:02:53

Lowest channel

Highest channel



Date: 5.DEC.2016 17:48:52

Date: 5.DEC.2016 17:51:51

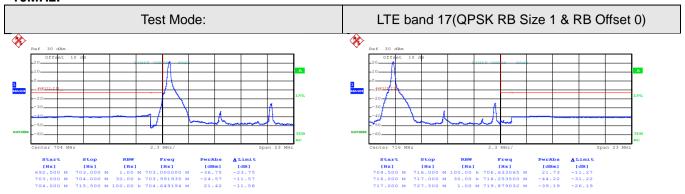
Lowest channel

Highest channel





10MHz:

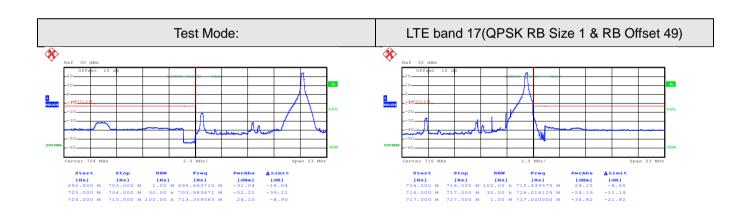


Date: 5.DEC.2016 17:57:25

Date: 5.DEC.2016 17:59:26

Lowest channel

Highest channel



Date: 4.DEC.2016 05:04:05

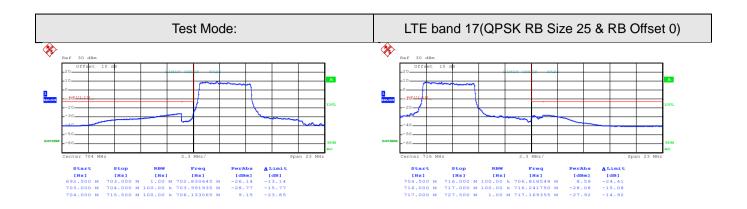
Date: 4.DEC.2016 05:05:46

Lowest channel

Highest channel





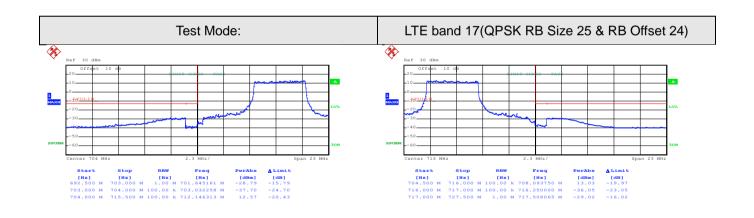


Date: 5.DEC.2016 17:58:18

Date: 5.DEC.2016 18:00:02

Lowest channel

Highest channel



Date: 4.DEC.2016 05:05:02

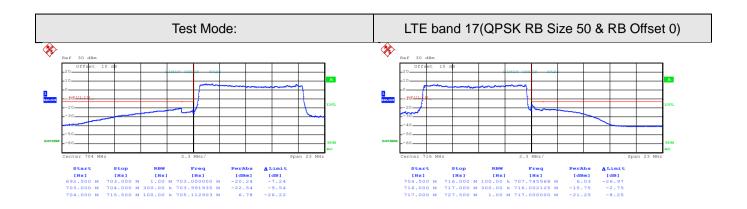
Date: 4.DEC.2016 05:06:29

Lowest channel

Highest channel





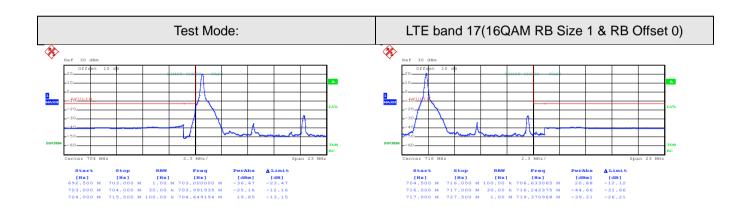


Date: 5.DEC.2016 17:56:44

Date: 5.DEC.2016 18:00:33

Lowest channel

Highest channel



Date: 5.DEC.2016 17:57:43

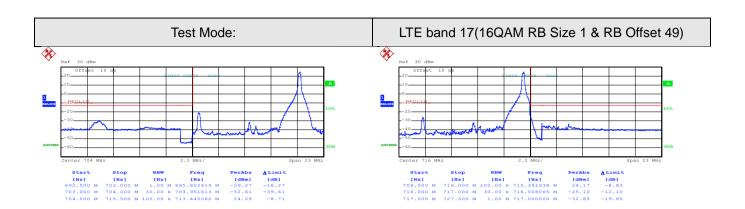
Date: 5.DEC.2016 17:59:35

Lowest channel

Highest channel





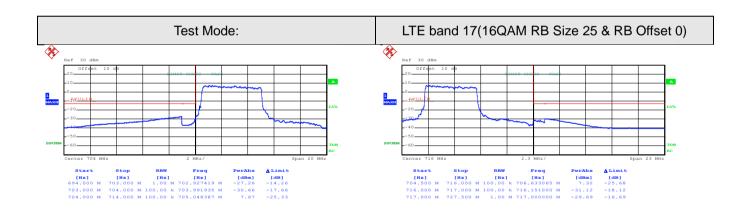


Date: 4.DEC.2016 05:04:21

Date: 4.DEC.2016 05:06:00

Lowest channel

Highest channel



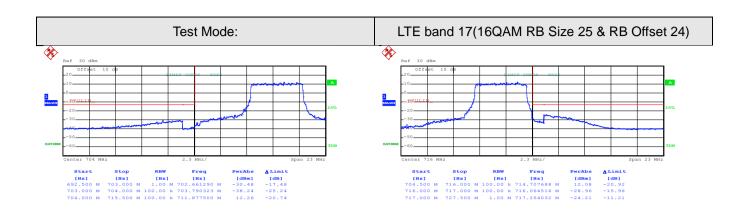
Date: 5.DEC.2016 17:53:54

Date: 5.DEC.2016 18:00:12

Lowest channel

Highest channel



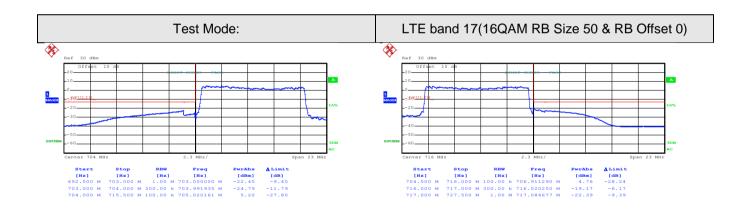


Date: 4.DEC.2016 05:05:15

Date: 4.DEC.2016 05:06:47

Lowest channel

Highest channel



Date: 5.DEC.2016 17:56:52

Date: 5.DEC.2016 18:01:02

Lowest channel

Highest channel





6.10 ERP, EIRP Measurement

O. TO LINI, LINI Weasurer	
Test Requirement:	FCC 24.232 (c), part 27.50(c), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 12: 3W ERP LTE Band 17: 3W EIRP
Test setup:	Below 1GHz
	Antenna Tower Search Antenna RF Test Receiver Ground Plane Antenna Tower Antenna RF Test Receiver Hom Antenna Spectrum Analyser Turn Table O, See Im Sectrum Analyser
	Amglither 105
	Substituted method:
	Ground plane d: distance in meters d:3 meter I -4 meter SPA Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna





	T
Test Procedure:	1. 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.
	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 below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
	4. EIRP in frequency band above 1GHz 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)
	5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data (worst case):

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		1.	4MHz(RB s	ize 1 & RB	offset 0)						
1050.70	10007	ODCK	1.1	Н	V	23.19					
1850.70	18607	QPSK	1.4	П	Н	18.42	33.00	Door			
1050.70	10007	16001	1.1	Н	V	24.47	33.00	Pass			
1850.70	18607	16QAM	1.4	П	Н	18.53					
	1.4MHz(RB size 3 & RB offset 0)										
4050.70	40007	ODCK	4.4		V	27.57					
1850.70	18607	QPSK	1.4	H	Н	20.04	22.00	Door			
1050.70	10607	160AM	1.4	Н	V	27.75	33.00	Pass			
1850.70	18607	16QAM	1.4		Н	19.99					
		1.	4MHz(RB s	ize 6 & RB	offset 0)						
4050.70	40007	ODOK	4.4		V	26.28					
1850.70	18607	QPSK	1.4	H	Н	17.05	22.00	Door			
4050.70	40007	10001	4.4		V	25.85	33.00	Pass			
1850.70	18607	16QAM	1.4	Н	Н	18.28					

Middle channel

	Middle channel											
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result				
		1.4	4MHz(RB	size 1 & RE	3 offset 0)							
1880.00	18900	QPSK	1.4	Н	V	23.22						
1000.00	16900	QFSN	1.4	П	Н	18.41	33.00	Pass				
1880.00	18900	16QAM	1.4	Н	V	24.51	_ 00.00					
1000.00	10900	TOQAM	1.4	11	Н	18.56						
	1.4MHz(RB size 3 & RB offset 0)											
1880.00	18900	QPSK	1.4	Н	V	27.54						
1660.00	16900	QFSK	1.4	11	Н	20.06	33.00	Pass				
1880.00	18900	16QAM	1.4	Н	V	27.73	33.00	F 455				
1000.00	10900	IOQAW	1.4	11	Н	19.96						
		1.4	4MHz(RB	size 6 & RE	3 offset 0)							
1880.00	18900	QPSK	1.40	Н	V	26.32						
1000.00	10900	QFOR	1.40	11	Н	17.16	33.00	Pass				
1880.00	18900	16QAM	1.40	Н	V	25.87	33.00	F a 3 3				
1000.00	10900	IUQAW	1.40	11	Н	18.32						





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
			1.4MHz(RE	3 size 1 & F	RB offset 0)						
1909.30	19193	QPSK	1.4	Н	V	23.21					
1909.30	19193	QFSK	1.4	11	Н	18.42	33.00	Door			
1909.30	19193	16QAM	1.4	Н	V	24.50	33.00	Pass			
1909.50	19193	IOQAW	1.4	П	Н	15.58					
	1.4MHz(RB size 3 & RB offset 0)										
4000 20	40400	ODCK	(1.4 H	1.4 H	V	27.51		Door			
1909.30	19193	QPSK			Н	20.04	22.00				
1000 20	10102	160 AM	1.4	Н	V	27.79	33.00	Pass			
1909.30	19193	16QAM	1.4	П	Н	19.99					
			1.4MHz(RE	3 size 6 & F	RB offset 0)						
4000 20	40400	ODCK	4.4	1.1	V	26.34					
1909.30	19193	QPSK	1.4	Н	Н	17.18	00.00	Pass			
1000 20	10102	160 AM		Н	V	25.89	33.00				
1909.30	19193	16QAM	1.4	П	Н	18.30					

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		2	20MHz(RB s	ize 1 & RE	3 offset 0)						
1860.00	18700	QPSK	20	Н	٧	25.15					
1000.00	18700	QFSK	20	П	Н	15.76	33.00	Pass			
1860.00	18700	16QAM	20	Н	٧	23.92	33.00	F 455			
1860.00	18700	TOQAW	20		Н	15.51					
	20MHz(RB size 50 & RB offset 0)										
1860.00	18700	QPSK	20	Н	V	23.64					
1860.00	18700	QF 5K	20		Н	15.37	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	24.07	33.00	F 488			
1860.00	18700	TOQAW	20		Н	15.76					
		20	MHz(RB siz	e 100 & R	B offset 0)						
1860.00	18700	QPSK	20	Н	V	21.59					
1000.00	10700	QF3N	20	П	Н	14.28	33.00	Pass			
1860.00	18700	16QAM	20	Н	V	22.17	33.00	F d 5 5			
1000.00	10700	IOQAW	20	П	Н	14.88					





Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
20MHz(RB size 1 & RB offset 0)										
1880.00	18900	QPSK	20	Н	V	25.26				
1880.00	10900	QFSK	20	П	Н	15.78	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	23.94	33.00	F488		
1880.00	10900	TOQAW	20	П	Н	15.56				
	20MHz(RB size 50 & RB offset 0)									
1880.00	18900	QPSK	20	Н	V	23.67				
1000.00	10900	QFSK	20	П	Н	15.42	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	24.06	33.00	F 4 5 5		
1000.00	10900	IOQAW	20	П	Н	15.79				
		20	MHz(RB siz	e 100 & R	B offset 0)					
1000.00	10000	ODCK	20	Ш	V	21.62				
1880.00	18900	QPSK	20	Н	Н	14.36	33.00	Pass		
1880.00	18900	16QAM	20	Н	V	22.17	33.00	га55		
1000.00	10900	IOQAW	20	П	Н	14.86				

Highest channel

	rigilest Chainei										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
20MHz(RB size 1 & RB offset 0)											
1900.00	19100	QPSK	20	Н	V	25.32					
1900.00	19100	QFSK	20		Н	15.79	33.00	Door			
1900.00	19100	16QAM	20	ы	V 2	23.91	33.00	Pass			
1900.00	19100	TOQAW	20 H		Н	15.64					
	20MHz(RB size 50 & RB offset 0)										
1900.00	19100	QPSK	20	0 Н	V	23.68	33.00				
1900.00	19100	QFSK	20		Н	15.46		Pass			
1900.00	19100	16QAM	20	Н	٧	24.09	33.00	Fa55			
1900.00	19100	TOQAW	20	11	Н	15.83					
		2	0MHz(RB s	ize 100 8	RB offset (0)					
1900.00	19100	QPSK	20	Н	V	21.64					
1900.00	19100	QF 5K	20	11	Н	14.37	33.00	Page			
1900.00	19100	16QAM 20	20	Н	V	22.19	33.00	Pass			
1900.00	19100	ΙΟΩΛΙΝΙ	20	11	Н	14.87					





LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		,	I.4MHz(RE	3 size 1 &	RB offset 0)						
1710.70	19957	QPSK	1.4	1.4 H V 21.82							
1710.70	19937	QFSK	1.4	1.4	Н	14.06	20.00	Pass			
1710.70	19957	16QAM	1.4	Н	V	23.60	30.00	Fa55			
1710.70	19937	IOQAW	1.4		Н	14.63					
	1.4MHz(RB size 3 & RB offset 0)										
1710 70	100F7	QPSK	1.1	Ш	V	22.53	30.00	Pass			
1710.70	19957	QPSK	1.4	Н	Н	14.32					
1710.70	19957	16QAM	1.4	Н	V	23.48	30.00	Fa55			
1710.70	19957	IOQAW	1.4		Н	15.10					
		•	1.4MHz(RE	3 size 6 &	RB offset 0)						
1710 70	10057	ODSK	4.4	ы	V	21.80					
1710.70	19957	QPSK	1.4	Н	Н	13.31	20.00	Pass			
1710 70	10057	16QAM 1.4	1 1	Н	V	22.64	30.00				
1710.70	19957	IOQAW	1.4	П	Н	13.52					

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
		1	.4MHz(RE	3 size 1 &	RB offset 0)						
1732.50	20175	QPSK	1.4	Н	V	21.86					
1732.50	20175	QFSK	1.4	П	Н	14.25	30.00	Pass			
1732.50	20175	16QAM	1.4 H		V	23.62	30.00	Fa55			
1732.50	20173	IOQAW	1.4	П	Н	14.67					
	1.4MHz(RB size 3 & RB offset 0)										
1732.50	20175	QPSK	1.4	н	V	22.53	30.00	Pass			
1732.50	20175	QPSK	1.4	П	Н	14.36					
1732.50	20175	16QAM	1.4	1.4 H	V	23.52	30.00				
1732.50	20175	TOQAM	1.4		Н	15.21					
		1	.4MHz(RE	3 size 6 &	RB offset 0)						
1732.50	20175	QPSK	1.4	Н	V	21.87					
1732.50	20175	QPSK	1.4	П	Н	13.36	30.00	Doos			
1732.50	20175	16QAM	1.4	Н	V	22.69	30.00	Pass			
1732.50	20175	TOQAM	1.4	11	Н	13.58					





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
			1.4MHz(RE	size 1 & l	RB offset 0)					
1754.30	20202	QPSK	1.4	Н	V	21.86				
1754.30	20393	QPSK	1.4	П	Н	14.24	30.00	Door		
1754.30	20393	16O A M	1.4	Н	V	23.69	30.00	Pass		
1754.50	20393	16QAM	1.4	П	Н	14.68				
	1.4MHz(RB size 3 & RB offset 0)									
1754.30	20393	QPSK	1.4	Н	V	22.54		Pass		
1754.50	20393	QFSK	1.4	1.4	Н	14.32	30.00			
1754.30	20393	16QAM	1.4	Н	V	23.57	30.00	Fa55		
1754.50	20393	IOQAW	1.4	П	Н	15.26				
			1.4MHz(RE	3 size 6 & F	RB offset 0)					
1751 20	20202	ODSK	1.4	Н	V	21.89				
1754.30	20393	QPSK	1.4		Н	13.37	20.00	Door		
1754 20	20202	160 AM	1.4	Н	V	22.72	30.00	Pass		
1754.30	20393	16QAM	1.4	П	Н	13.64				

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	20MHz(RB size 1 & RB offset 0)									
1720.00	20050	QPSK	20	Н	V	24.06				
1720.00	20050	QF3K	20	П	Н	15.55	30.00	Door		
1720.00	20050	16QAM	20	Н	V	23.93	30.00	Pass		
1720.00	20030	IOQAW	20	П	Н	15.51				
	20MHz(RB size 50 & RB offset 0)									
1720.00	20050	QPSK	20	Н	V	23.29				
1720.00	20030	QFSK	20	П	Н	15.27	30.00	Pass		
1720.00	20050	16QAM	20	Н	V	23.56	30.00	F a 5 5		
1720.00	20030	TOQAIVI	20	11	Н	15.52				
		20MHz(RB size 100	& RB offs	et 0)					
1720.00	20050	QPSK	20	Н	V	21.76				
1720.00	20030	QF 5K	20		Н	14.03	30.00	Pass		
1720.00	20050	16QAM	20	Н	V	22.24	30.00	F a 5 5		
1720.00	20050	IOQAW	20	П	Н	14.48				



Report No: CCISE161103905

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result	
		2	0MHz(RB si	ze 1 & RB	offset 0)				
1722.50	20175	QPSK	20	Н	V	24.08			
1732.50	20175	QPSK	20	П	Н	15.54	30.00	Pass	
1732.50	20175	16QAM	20	Н	V	23.96	30.00	Fa55	
1732.50	20175	IOQAW	20	П	Н	15.54			
	20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	Н	V	23.32			
1732.50	20175	QFSN	20	П	Н	15.29	30.00	Pass	
1732.50	20175	16QAM	20	Н	V	23.57	30.00	F 455	
1732.50	20175	IOQAW	20	П	Н	15.51			
		20	MHz(RB siz	e 100 & RI	B offset 0)				
1722.50	20175	ODSK	20	Н	V	21.78			
1732.50	20175	QPSK	20	П	Н	14.02	30.00	Pass	
1732.50	20175 16QAM	20	Н	V	22.29	30.00	rass		
1732.50	20175	TOQAW	20	11	Н	14.52			

High channel

High channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	20MHz(RB size 1 & RB offset 0)									
1745.00	20300	QPSK	20	Н	V	24.12				
1745.00	20300	QFSK	20	П	Н	15.58	30.00	Pass		
1745.00	20300	16QAM	20	Н	V	23.94	30.00	F a 5 5		
1743.00	20300	TOQAM	20	11	Н	15.57				
20MHz(RB size 50 & RB offset 0)										
1745.00	20300 QPSK	20	П	H V 23.36						
1745.00	20300	QFSK	20	П	Н	15.34	30.00	Pass		
1745.00	20300	16QAM	20	Н	V	23.58	30.00	F a 5 5		
1745.00	20300	TOQAM	20	П	Н	15.52				
		2	20MHz(RB siz	e 100 & RI	3 offset 0)					
1745.00	20300	QPSK	20	Н	V	21.75				
1745.00	20300	QFSK	20	П	Н	14.06	30.00	Door		
1745.00	1745.00 20300 16QAM	20	Н	V	22.37	30.00	Pass			
1745.00	20300	IOQAW	20	П	Н	14.56				





LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
			5MHz(RB	size 1 & I	RB offset 0)					
2502.50	20775	QPSK	5	Н	V	22.19				
2502.50	20773	QFSK	5	П	Н	19.73	33.00	Pass		
2502.50	20775	16QAM	5	Н	V	22.02	33.00	Fa55		
2502.50	20773	IOQAW	5	П	Н	19.61				
	5MHz(RB size 12& RB offset 0)									
2502.50	20775	QPSK	5	Н	V	19.23				
2502.50	20775	QPSK		П	Н	16.87	33.00	Pass		
2502.50	20775	16QAM	5	Н	V	19.11	33.00	Fa55		
2502.50	20773	IOQAW	5	П	Н	16.52				
			5MHz(RB	size 25&	RB offset 0)					
2502.50	20775	ODSK	E	Н	V	17.77				
2502.50	20775	QPSK	5	П	Н	14.97	22.00	Door		
2502.50	2502 50 20775	16QAM	_	ы	V	16.68	33.00	Pass		
2502.50	20775	IOQAW	5 H	П	Н	14.98				

Middle channel

Middle channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
	5MHz(RB size 1 & RB offset 0)									
2525.00	21100	OBSK	5	Н	V	22.23				
2535.00	21100	QPSK	5	Г	Н	19.76	33.00	Pass		
2535.00	21100	16QAM	5	Н	V	22.06	33.00	Fa55		
2555.00	21100	IOQAW	5 H		Н	19.64				
5MHz(RB size 12& RB offset 0)										
2535.00	21100	QPSK 5	E	Н	V	19.26				
2555.00	21100	QPSK	5	3 11	Н	16.89	33.00	Pass		
2535.00	21100	16QAM	5	Н	V	19.14	33.00	F 455		
2555.00	21100	TOQAM	5		Н	16.57				
		Ę	5MHz(RB	size 25&	RB offset 0)					
2535.00	21100	QPSK	E	ы	V	17.79				
2555.00	21100	UPSK	5	5 F	H	Н	14.99	33.00	Pass	
2535.00 21100 1	16QAM	5	Н	V	16.72	33.00	Fa55			
2555.00	21100	TOQAM	5	П	Н	15.03				





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result		
			5MHz(RB	size 1 & R	B offset 0)					
2567.50	21425	QPSK	5	Н	V	22.21				
2567.50	21423	QFSK	3	П	Н	19.78	22.00	Pass		
2567.50	21425	16QAM	5	Н	V	22.10	33.00	Fa55		
2567.50	21423	IOQAW	3	П	Н	19.67				
	5MHz(RB size 12& RB offset 0)									
2567.50	24.425	QPSK 5	5 H	V	19.35					
2567.50	21425	QPSK	5	П	Н	16.92	33.00	Door		
2567.50	24.425	160014	F	Н	V	19.16	33.00	Pass		
2567.50	21425	16QAM	5	П	Н	16.58				
			5MHz(RB	size 25& R	B offset 0)					
2507.50	04.405	ODCK	-	1.1	V	17.80				
2567.50	21425	QPSK	5	Н	Н	14.97	22.00	Pass		
2567.50	24.425	21425 16OAM 5	E	Н	V	16.76	33.00			
2567.50	21425	16QAM	5	П	Н	15.06				

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	20MHz(RB size 1 & RB offset 0)										
2510.00	20850	QPSK	20	Н	V	22.06					
2510.00	20000	QF5K	20	П	Н	18.67	22.00	Door			
2510.00	20850	16QAM	20	Н	V	25.81	33.00	Pass			
2510.00	20000	IOQAW	20	П	Н	22.50					
	20MHz(RB size 50 & RB offset 0)										
2510.00	20850	QPSK	20	Н	V	21.72					
2510.00	20000	QFSK	20	П	Н	19.26	33.00	Pass			
2510.00	20850	16QAM	20	Н	V	24.10	33.00	F a 5 5			
2310.00	20030	TOQAIVI	20	11	Н	21.06					
		20MHz(RB size 100	& RB offs	et 0)						
2510.00	20850	QPSK	20	Н	V	19.89					
2510.00	20030	QF 5K	20	20	20	20		Н	17.71	33.00	Pass
2510.00	2510.00 20850 16QAM	20	Н	V	23.19	33.00	F a 5 5				
2510.00	20000	IOQAW	20	20	П	Н	19.52				



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Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result			
	20MHz(RB size 1 & RB offset 0)										
2535.00	21100	QPSK	20	Н	V	22.07					
2555.00	21100	QFSN	20	П	Н	18.69	33.00	Pass			
2535.00	21100	16QAM	20	Н	V	25.86	33.00	F 455			
2555.00	21100	TOQAM	20	П	Н	22.51					
20MHz(RB size 50 & RB offset 0)											
2535.00	21100	QPSK	20	Н	V	21.76		Pass			
2555.00	21100	QFSN	20	П	Н	19.24	33.00				
2535.00	21100	16QAM	20	Н	V	24.09	33.00	rass			
2333.00	21100	TOQAW	20	!!	Н	21.03					
		20	MHz(RB siz	e 100 & RI	B offset 0)						
2535.00	21100	QPSK	20	Н	V	19.92					
2555.00	21100	QFSK	20	П	Н	17.87	33.00	Pass			
2535.00 2	21100	16QAM	20	Н	V	21.16	33.00	га55			
2555.00	21100	TOQAW	20	11	Н	19.50					

High channel

High channel												
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result				
	20MHz(RB size 1 & RB offset 0)											
2560.00	21350	QPSK	20	Н	V	22.03						
2500.00	21330	QFSK	20	11	Н	18.72	33.00	Pass				
2560.00	21350	16QAM	20	н	V	25.54	33.00	rass				
2300.00	21330	TOQAM	20	11	Н	22.53						
20MHz(RB size 50 & RB offset 0)												
2560.00	21350	QPSK	20	Н	V	21.79						
2500.00	21330	QFSK	20	1.1	Н	19.23	33.00	Pass				
2560.00	21350	16QAM	20	Н	V	24.05	33.00	rass				
2300.00	21330	TOQAM	20	11	Н	21.02						
		2	20MHz(RB s	ize 100 8	RB offset 0))						
2560.00	21350	QPSK	20	Н	V	19.94						
2500.00	21330	QFSN	20	П	Н	17.89	22.00	Pass				
2560.00	21350	16QAM	20	20	20	20 H	П	Ц	V	21.18	33.00	rass
2300.00	21330	IOQAW			Н	19.56						





LTE band 12 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
		1	I.4MHz(RE	3 size 1 &	RB offset 0)					
699.70	23017	QPSK	1.4	Н	V	20.02				
055.70	20017	QI OIX	1		Н	20.33	34.77	Pass		
699.70	23017	16QAM	1.4	Н	V	21.02	54.77	1 833		
099.70	23017	TOQAM	1.4	11	Н	19.92				
	1.4MHz(RB size 3& RB offset 0)									
699.70	23017	QPSK	1.4	Н	V	20.00				
099.70	23017	QFSR	1.4		Н	18.67	34.77	Pass		
699.70	23017	16QAM	1.4	Н	V	21.02	34.77	F d 5 5		
099.70	23017	TOQAM	1.4	11	Н	19.06				
		•	1.4MHz(RI	B size 6&	RB offset 0)					
600.70	22017	QPSK	1.4	Н	V	19.37				
099.70	699.70 23017	QF3N	1.4	П	Н	17.72	34.77	Pass		
699.70	23017	160AM	1 /	Н	V	20.24	34.77	F 055		
033.70	25017	7 16QAM 1.4	1.4	11	Н	17.86				

Middle channel

	Middle Channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result			
	1.4MHz(RB size 1 & RB offset 0)										
707.50	23095	QPSK	1.4	Н	V	20.04					
707.50	23093	QFSK	1.4	П	Н	20.37	34.77	Pass			
707.50	23095	16QAM	1.4	Н	V	21.06	34.77	Fa55			
707.50	23093	TOQAW	1.4		Н	19.96					
1.4MHz(RB size 3& RB offset 0)											
707.50 230	23095	QPSK	1.4	Н	V	20.03					
707.50	23093	QF3K	1.4	1.4	Н	18.69	34.77	Pass			
707.50	23095	16QAM	1.4	Н	V	21.05	34.77	rass			
707.50	23093	TOQAM	1.4	[]	Н	19.03					
		1	.4MHz(RI	B size 6&	RB offset 0)						
707.50	23095	QPSK	1.4	Н	V	19.38					
707.50	23093	QF3N	1.4	П	Н	17.76	34.77	Pass			
707.50 23	23095	16QAM	1.4	H	V	20.26	34.77	F d55			
707.50	23033	IUQAW	1.4	11	Н	17.84					





Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			1.4MHz(RE	3 size 1 & F	RB offset 0)			
715.30	23173	QPSK	1.4	Н	V	20.09		
7 10.00	20170	QI OIL	17	''	Н	20.38	34.77	Pass
715.30	23173	16QAM	1.4	Н	V	21.05	34.77	1 455
7 10.00	20170	TOGANI	1.4	11	Н	19.94		
			1.4MHz(RE	3& F	RB offset 0)			
715.30	23173	QPSK	1.4	Н	V	20.03		
715.30	23173	QFSK	1.4	П	Н	18.76	34.77	Pass
715.30	23173	16QAM	1.4	Н	V	21.01	34.77	F 455
7 15.50	23173	TOQAM	1.4		Н	19.02		
			1.4MHz(RE	3 size 6& F	RB offset 0)			
715.30	22172	QPSK	1.1	Н	V	19.35		
7 13.30	23173	QF3K	1.4	17	Н	17.74	34.77	Docc
715.30	715.30 23173 16QAM	1.4	Н	V	20.28	34.77	Pass	
7 13.30	23173	TOQAW	1.4	11	Н	17.86		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result											
	10MHz(RB size 1 & RB offset 0)																		
704.00	23060	QPSK	10	Н	V	20.53													
704.00	23000	QFSK	10		Н	20.57	34.77	Pass											
704.00	23060	16QAM	10	Н	V	21.09	34.77	F 4 5 5											
704.00	23000	TOQAM	10	11	Н	20.64													
	10MHz(RB size 25& RB offset 0)																		
704.00	704.00 23060 QF	QPSK	10	Н	V	21.87													
704.00	23000	QFSK	10		Н	21.24	34.77	Pass											
704.00	23060	16QAM	10	Н	V	21.86	34.77	F 4 5 5											
704.00	23000	TOQAM	10		Н	21.32													
		10MHz	(RB size 50	& RB offse	et 0)														
704.00	23060	QPSK	10		V	20.74													
704.00	23000	QFSK	10	10	10	10	10	10	10	10	10	10	10	10	10 H	Н	20.34	34.77	Pacc
704.00	23060	16QAM	10	ш	V	21.29	J4.77	Pass											
704.00	23000	IUQAW	10	Н	Н	20.84													



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Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
10MHz(RB size 1 & RB offset 0)									
707.50	23095	QPSK	10	Н	V	20.54			
707.50	23095	QFSK	10	П	Н	20.59	34.77	Dace	
707.50	23095	16QAM	10	Н	V	21.10	34.77	Pass	
707.50	23093	TOQAM	10	П	Н	20.67			
10MHz(RB size 25& RB offset 0)									
707.50	23095	QPSK	10	Н	V	21.86		Pass	
707.50	23093	QFSK	10	П	Н	21.26	34.77		
707.50	23095	16QAM	10	Н	V	21.89	34.77	rass	
707.50	23093	TOQAM	10	!!	Н	21.31			
		10	MHz(RB siz	ze 50 & RE	3 offset 0)				
707.50	23095	QPSK	10	Н	V	20.73			
707.50	23093	QFSK	10	П	Н	20.32	34.77	Pass	
707.50	23095	16QAM	10	Н	V	21.28	34.77	F a 5 5	
707.50	23033	IUQAW	10 H	11	Н	20.88			

High channel

High channel									
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
10MHz(RB size 1 & RB offset 0)									
711.00	23130	QPSK	10	Н	V	20.56			
711.00	23130	QFSK	10	П	Н	20.57	34.77	Door	
711.00	23130	16QAM	10	Н	V	21.13	34.77	Pass	
711.00	23130	TOQAM	10	П	Н	20.64	7		
	10MHz(RB size 25& RB offset 0)								
711.00	23130	QPSK	10	Н	V	21.87		Pass	
711.00	23130	QPSK	10	П	Н	21.29	34.77		
711.00	23130	16QAM	10	Н	V	21.92	34.77		
711.00	23130	IOQAW	10	П	Н	21.34			
			10MHz(RB s	size 50 & RE	offset 0)				
711.00	22420	ODSK	10	Н	V	20.76			
711.00	23130	QPSK	10	П	Н	20.36	24.77	Doos	
711.00	23130	16QAM	10	Н	V	21.34	34.77	Pass	
711.00	23130	IOQAW	10	П	Н	20.86			





LTE band 17 part Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			5MHz(RE	3 size 1 &	RB offset 0)			
706.50	23755	QPSK	5	Н	V	21.23		
700.50	23755	QFSK	5	[1	Н	21.76	34.77	Pass
706.50	23755	16QAM	5	Н	V	19.66	34.77	Fa55
706.50	23733	IOQAW	5		Н	21.82	1	
			5MHz(RB	size 12 8	RB offset 0)			
706.50	23755	QPSK	5	Н	V	20.62		Pass
706.50	23733	QFSK	5	П	Н	21.62	34.77	
706.50	23755	16QAM	5	Н	V	20.59	34.77	газэ
700.50	23755	TOQAW	5	[]	Н	21.83		
		!	5MHz(RB	size 25 8	RB offset 0)			
706.50	23755	QPSK	5	Н	V	20.14		
700.50	23700	QF3N	5	П	Н	20.07	34.77	Pass
706.50	23755	16QAM	5	Н	V	20.51	34.11	Pass
700.50	20700	IOQAW	3	11	Н	20.66		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
	5MHz(RB size 1 & RB offset 0)									
710.00	23790	QPSK	5	Н	V	21.22				
710.00	23790	QFSK	5	П	Н	21.74	34.77	Pass		
710.00	23790	16QAM	5	Н	V	19.68	34.77	F a 5 5		
710.00	23790	IOQAW	5	П	Н	21.86	1			
			5MHz(RE	size 12 &	RB offset 0)					
710.00	22700	QPSK	E	Н	V	20.65		Door		
710.00	23790	QPSK	5	Г	Н	21.64	34.77			
710.00	23790	16QAM	E	ы	V	20.63	34.77	Pass		
710.00	23790	IOQAW	5	5 H	Н	21.86				
			5MHz(RE	size 25 &	RB offset 0)					
740.00	22700	ODCK	-	11	V	20.16				
710.00	23790	QPSK	5	Н	Н	20.09	34.77	Pass		
710.00	23790	16QAM	5	Н	V	20.53	34.77	rass		
7 10.00	23/90	TOQAM	3	П	Н	20.69				



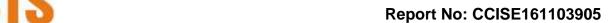


Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
			5MHz(RE	3 size 1 &	RB offset 0)				
713.50	23825	QPSK	5	Н	V	21.26			
7 13.50	23023	QFSK	5	П	Н	21.76	34.77	Pass	
713.50	22025	16QAM	5	Н	V	19.72	34.77	F455	
7 13.50	23825	TOQAW	5	П	Н	21.87			
	5MHz(RB size 12 & RB offset 0)								
713.50	22025	QPSK	5	Н	V	20.69		Pass	
7 13.50	23825	QFSK	5	П	Н	21.66	24 77		
713.50	23825	16QAM	5	Н	V	20.56	34.77		
7 13.50	23023	IOQAW	5	П	Н	21.87			
			5MHz(RB	size 25 &	RB offset 0)				
740.50	22025	ODCK	_	1.1	V	20.18			
713.50	23825	QPSK	5	Н	Н	20.12	24.77	Door	
712.50	22025	160 A M	E	Н	V	20.56	34.77	Pass	
713.50	23825	16QAM	5	П	Н	20.74			

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			10MHz(R	B size 1 &	RB offset 0)			
709.00	23780	QPSK	10	Н	V	21.21		
709.00	23700	QFSK	10	П	Н	21.56	34.77	Door
700.00	23780	16QAM	10	Н	V	21.54	34.77	Pass
709.00	23700	IOQAW	10	П	Н	21.95		
		•	10MHz(R	B size 258	RB offset 0)			
700.00	22700	ODSK	10	Н	V	19.92		Pass
709.00	23780	QPSK	10	П	Н	21.18	24 77	
709.00	23780	16QAM	10	Н	V	20.04	34.77	
709.00	23700	IOQAW	10	П	Н	21.25		
		•	10MHz(R	B size 508	RB offset 0)			
709.00	23780	QPSK	10	Н	V	19.76		
709.00	23/00	QF3N	10		Н	20.96	24 77	Page
709.00	23780	16QAM	10	Н	V	19.79	34.77	Pass
709.00	23700	IOQAW	10	11	Н	21.08		



CCIS

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
	10MHz(RB size 1 & RB offset 0)									
710.00	23790	QPSK	10	Н	V	21.23				
7 10.00	23790	QFSK	10	П	Н	21.54	34.77	Page		
710.00	23790	16QAM	10	Н	V	21.57		Pass		
7 10.00	23790	IOQAW	10		Н	21.96				
	10MHz(RB size 25& RB offset 0)									
710.00	22700	ODSK	10	10 H	V	19.94				
710.00	23790	QPSK		10	RESIX 10	П	Н	21.22	04.77	Door
710.00	23790	16QAM	10	Н	V	20.06	34.77	Pass		
710.00	23790	TOQAW	10	П	Н	21.28				
			10MHz(R	B size 50&	RB offset 0)					
740.00	00700	ODCK	40	1.1	V	19.78				
710.00	23790	QPSK	10	Н	Н	21.03	04.77	Door		
710.00	22700	160 A M	10		V	19.86	34.77	Pass		
710.00	23790	16QAM		Н	Н	21.06				

Highest channel

Highest channel										
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
	10MHz(RB size 1 & RB offset 0)									
711.00	23800	QPSK	10	Н	V	21.26				
711.00	23000	QFSK	10	П	Н	21.52	34.77	Pass		
711.00	23800	16QAM	10	Н	V	21.58	34.77	Fa55		
711.00	23000	TOQAW	10	П	Н	21.98				
	10MHz(RB size 25& RB offset 0)									
711.00	23800	QPSK	10	Н	V	19.96				
711.00	23000	QFSK			Н	21.24	34.77	Pass		
711.00	22000	16QAM	10	Н	V	20.08	34.77	Fa55		
711.00	23800	IOQAW	10	П	Н	21.32				
		•	10MHz(R	B size 50&	RB offset 0)					
711 00	22000	ODSK	10	Ц	V	19.83				
711.00	23800	QPSK	10	H	Н	21.06	34.77	Page		
711.00	23800	16QAM	10	Н	V	19.88	34.77	Pass		
711.00	23000	TOQAM	10	П	Н	21.12				



6.11 Field strength of spurious radiation measurement

o. 11 Field Strength of Sp	urious radiation measurement
Test Requirement:	FCC Part 24.238 (a),Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 12 and LTE Band 17: -13dBm, LTE Band 7: -25dBm
Test setup:	Below 1GHz Antenna Tower Scarch Antenna RF Test Receiver Ground Plane Above 1GHz
	Antenna Tower Harn Antenna Spectrum Analyzer Turn 0, Sea Irm Table Angliffer
	Substituted method: Antenna mast Ground plane d: distance in meters d:3 meter I-4 meter Spa Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna
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



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	 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 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

Below 1GHz:

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.





LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK									
Frequency (MHz)	Spurious	-	Limit (dBm)	Result					
Frequency (MHZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Result					
Lowest									
3701.40	Vertical	-44.00							
5552.10	V	-31.67							
7402.00	V	-33.42	40.00	Dana					
3701.40	Horizontal	-40.39	-13.00	Pass					
5552.10	Н	-26.58							
7402.00	Н	-30.84							
	Middle								
3760.00	Vertical	-43.69							
5640.00	V	-26.11							
7520.00	V	-33.96	40.00	Pass					
3760.00	Horizontal	-43.36	-13.00						
5640.00	Н	-29.83							
7520.00	Н	-34.55							
		Highest							
3816.60	Vertical	-44.14							
5724.90	V	-29.10							
7633.20	V	-29.24	10.00	Dana					
3816.60	Horizontal	-46.70	-13.00	Pass					
5724.90	Н	-31.36]						
7633.20	Н	-30.63	1						





3MHz(RB size 1 & RB offset 0) for QPSK									
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result					
Frequency (MHZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Result					
Lowest									
3703.00	Vertical	-47.56							
5554.50	V	-36.46							
7406.00	V	-36.42	42.00	Dees					
3703.00	Horizontal	-47.86	-13.00	Pass					
5554.50	Н	-37.61							
7406.00	Н	-36.32							
		Middle							
3760.00	Vertical	-48.36		Pass					
5640.00	V	-37.69							
7520.00	V	-36.88	40.00						
3760.00	Horizontal	-47.22	-13.00						
5640.00	Н	-36.59							
7520.00	Н	-37.04							
		Highest							
3817.00	Vertical	-47.41							
5725.50	V	-36.29							
7634.00	V	-36.09	10.00	Desc					
3817.00	Horizontal	-48.52	-13.00	Pass					
5725.50	Н	-40.32							
7634.00	Н	-33.21							





	5MHz(RB siz	ze 1 & RB offset 0) fo	or QPSK	
Fragues av (MILIE)	Spurious Emission			Danult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3705.00	Vertical	-44.02		Pass
5557.50	V	-31.64		
7410.00	V	-33.46	-13.00	
3705.00	Horizontal	-40.37	-13.00	
5557.50	Н	-26.62		
7410.00	Н	-30.86	1	
		Middle		
3760.00	Vertical	-43.87		
5640.00	V	-26.13		Pass
7520.00	V	-33.97	-13.00	
3760.00	Horizontal	-43.38		
5640.00	Н	-29.86		
7520.00	Н	-35.57		
		Highest		
3815.00	Vertical	-44.16	-13.00	Pass
5722.50	V	-29.08		
7630.00	V	-29.26		
3815.00	Horizontal	-46.71		
5722.50	Н	-31.38		
7630.00	Н	-30.65		





	10MHz(RB si	ze 1 & RB offset 0) f	or QPSK	
Frequency (MHz)	Spurious Emission			
	Polarization	Level (dBm)	Limit (dBm)	Result
1		Lowest		
3710.00	Vertical	-47.52		Pass
5565.00	V	-36.37		
7420.00	V	-36.32	-13.00	
3710.00	Horizontal	-47.78	-13.00	
5565.00	Н	-37.62		
7420.00	Н	-34.36		
		Middle		
3760.00	Vertical	-48.32		Pass
5640.00	V	-37.76		
7520.00	V	-36.85	12.00	
3760.00	Horizontal	-47.26	-13.00	
5640.00	Н	-36.59		
7520.00	Н	-37.06		
<u>_</u>		Highest		
3810.00	Vertical	-47.46	-13.00	Pass
5715.00	V	-36.26		
7620.00	V	-36.12		
3810.00	Horizontal	-48.56		
5715.00	Н	-40.36		
7620.00	Н	-33.27		





	15MHz(RB	size 1 & RB offset 0) for QPSK	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)	Liffiit (ubifi)	Result
		Lowest		
3715.00	Vertical	-43.98		Pass
5572.50	V	-31.62		
7430.00	V	-33.44	-13.00	
3715.00	Horizontal	-40.34	-13.00	
5572.50	Н	-26.64		
7430.00	Н	-30.87		
		Middle		
3760.00	Vertical	-43.89		Pass
5640.00	V	-26.16		
7520.00	V	-33.94	-13.00	
3760.00	Horizontal	-43.36	-13.00	
5640.00	Н	-29.87		
7520.00	Н	-35.54		
		Highest		
3805.00	Vertical	-44.12	-13.00	Pass
5707.50	V	-29.14		
7610.00	V	-29.32		
3805.00	Horizontal	-46.76		
5707.50	Н	-31.47		
7610.00	Н	-30.66		





20MHz(RB size 1 & RB offset 0) for QPSK					
	Spurious Emission				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
		Lowest			
3720.00	Vertical	-47.46		Pass	
5580.00	V	-36.32			
7440.00	V	-36.30	42.00		
3720.00	Horizontal	-47.75	-13.00		
5580.00	Н	-37.59			
7440.00	Н	-34.27			
		Middle			
3760.00	Vertical	-48.31		Pass	
5640.00	V	-37.68			
7520.00	V	-36.88	12.00		
3760.00	Horizontal	-47.19	-13.00		
5640.00	Н	-36.56			
7520.00	Н	-37.00			
		Highest			
3800.00	Vertical	-47.40	-13.00	Pass	
5700.00	V	-36.22			
7600.00	V	-36.06			
3800.00	Horizontal	-48.54			
5700.00	Н	-40.29			
7600.00	Н	-33.25			





LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
Frequency (Miriz)	Polarization	Level (dBm)	Limit (ubin)	Kesuit
		Lowest		
3421.40	Vertical	-43.75		Pass
5132.10	V	-33.05		
6842.80	V	-27.46	-13.00	
3421.40	Horizontal	-42.13	-13.00	
5132.10	Н	-34.27		
6842.80	Н	-32.86		
		Middle		
3465.00	Vertical	-44.66		
5197.50	V	-35.68		Pass
6930.00	V	-26.91	-13.00	
3465.00	Horizontal	-39.28		
5197.50	Н	-34.64		
6930.00	Н	-31.05		
		Highest		
3508.60	Vertical	-44.07	-13.00	Pass
5262.90	V	-35.06		
7017.20	V	-33.57		
3508.60	Horizontal	-39.46		
5262.90	Н	-34.36		
7017.20	Н	-34.69		





	3MHz(RB siz	e 1 & RB offset 0) fo	or QPSK	
Frequency (MHz)	Spurious Emission			D !!
	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3423.00	Vertical	-47.96		Pass
5134.50	V	-36.64		
6846.00	V	-37.19	42.00	
3423.00	Horizontal	-43.51	-13.00	
5134.50	Н	-41.83		
6846.00	Н	-56.57		
<u> </u>		Middle		<u>.</u>
3465.00	Vertical	-47.56		Pass
5197.50	V	-39.40	10.00	
6930.00	V	-37.32		
3465.00	Horizontal	-45.62	-13.00	
5197.50	Н	-41.19		
6930.00	Н	-36.93		
·		Highest		·
3507.00	Vertical	-46.93	-13.00	Pass
5260.50	V	-40.67		
7014.00	V	-36.82		
3507.00	Horizontal	-47.58		
5260.50	Н	-41.73		
7014.00	Н	-38.21		





	5MHz(RB siz	ze 1 & RB offset 0) fo	or QPSK	
Fraguency (MHz)	•	Emission		Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3425.00	Vertical	-43.72		
5137.50	V	-33.14		
6850.00	V	-27.53	42.00	Door
3425.00	Horizontal	-42.16	-13.00	Pass
5137.50	Н	-34.21		
6850.00	Н	-32.89		
<u> </u>		Middle		<u>.</u>
3465.00	Vertical	-44.62		D
5197.50	V	-35.69		
6930.00	V	-26.91	40.00	
3465.00	Horizontal	-39.25	-13.00	Pass
5197.50	Н	-34.66		
6930.00	Н	-31.08		
		Highest		
3505.00	Vertical	-44.03		
5257.50	V	-35.12		
7010.00	V	-33.62	-13.00	Dees
3505.00	Horizontal	-39.47		Pass
5257.50	Н	-34.62		
7010.00	Н	-34.73		





	10MHz(RB s	ize 1 & RB offset 0)	for QPSK	
Fragues (MIII-)		Emission		Decult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
3430.00	Vertical	-47.94		
5145.00	V	-36.61		
6860.00	V	-37.16	-13.00	Pass
3430.00	Horizontal	-43.56	-13.00	F d 5 5
5145.00	Н	-41.82		
6860.00	Н	-36.56		
		Middle		·
3465.00	Vertical	-47.52		Pass
5197.50	V	-39.42		
6930.00	V	-37.29	-13.00	
3465.00	Horizontal	-45.56	-13.00	
5197.50	Н	-41.12		
6930.00	Н	-36.87		
		Highest		
3500.00	Vertical	-46.87		
5250.00	V	-40.59]	
7000.00	V	-36.83	-13.00	Pass
3500.00	Horizontal	-47.59		Pass
5250.00	Н	-41.72]	
7000.00	Н	-38.26]	





	15MHz(RB si	ze 1 & RB offset 0)	for QPSK	
Frequency (MHz)		Emission	Limit (dBm)	Result
Frequency (Minz)	Polarization	Level (dBm)	LIIIII (UDIII)	Result
		Lowest		
3435.00	Vertical	-43.71		
5152.50	V	-33.38		
6870.00	V	-27.51	40.00	Dana
3435.00	Horizontal	-42.26	-13.00	Pass
5152.50	Н	-34.21		
6870.00	Н	-32.84		
		Middle		
3465.00	Vertical	-44.58		
5197.50	V	-35.73		
6930.00	V	-26.94	40.00	Davis
3465.00	Horizontal	-39.29	-13.00	Pass
5197.50	Н	-34.72		
6930.00	Н	-31.13		
		Highest		
3495.00	Vertical	-44.05		
5242.50	V	-35.24	1	
6990.00	V	-33.66	-13.00	Desa
3495.00	Horizontal	-39.54		Pass
5242.50	Н	-34.63	1	
6990.00	Н	-37.76		





	20MHz(RB s	ize 1 & RB offset 0) for QPSK	
Frequency (MHz)		Emission	Limit (dBm)	Result
rrequericy (Miriz)	Polarization	Level (dBm)	Limit (ubin)	Kesuit
		Lowest		
3440.00	Vertical	-47.97		
5160.00	V	-36.62		
6880.00	V	-37.15	-13.00	Dana
3440.00	Horizontal	-43.60	-13.00	Pass
5160.00	Н	-41.70		
6880.00	Н	-36.63		
		Middle		
3465.00	Vertical	-47.57		Pass
5197.50	V	-39.45		
6930.00	V	-37.24	12.00	
3465.00	Horizontal	-45.53	-13.00	
5197.50	Н	-41.09		
6930.00	Н	-36.85		
		Highest		
3490.00	Vertical	-46.83		
5235.00	V	-40.57		
6980.00	V	-36.81	-13.00	Dees
3490.00	Horizontal	-47.45		Pass
5235.00	Н	-41.74		
6980.00	Н	-38.20		





LTE Band 7 Part:

	5MHz(RB siz	e 1 & RB offset 0) fo	or QPSK	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
Frequency (MHZ)	Polarization	Level (dBm)	Limit (abin)	Result
		Lowest		
5005.00	Vertical	-36.22		
7507.50	V	-36.48		
10010.00	V	-34.52	25.00	Dage
5005.00	Horizontal	-35.05	-25.00	Pass
7507.50	Н	-37.47		
10010.00	Н	-33.73		
<u> </u>		Middle		
5070.00	Vertical	-34.61		Pass
7605.00	V	-35.18		
10140.00	V	-34.50	25.00	
5070.00	Horizontal	-36.04	-25.00	Pass
7605.00	Н	-35.45		
10140.00	Н	-35.30		
		Highest		
5135.00	Vertical	-36.16		
7702.50	V	-32.43		
10270.00	V	-34.19	-25.00	Dees
5135.00	Horizontal	-34.55		Pass
7702.50	Н	-29.21		
10270.00	Н	-31.99		





	10MHz(RB si	ze 1 & RB offset 0) f	or QPSK	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
r requericy (Wir 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit
		Lowest		
5010.00	Vertical	-40.96		
7515.00	V	-36.63		
10020.00	V	-36.26	-25.00	Pass
5010.00	Horizontal	-38.67	-25.00	Pass
7515.00	Н	-37.64		
10020.00	Н	-36.59		
·		Middle		
5070.00	Vertical	-38.32		
7605.00	V	-33.86		
10140.00	V	-34.52	-25.00	Pass
5070.00	Horizontal	-42.44	-25.00	Pass
7605.00	Н	-40.26		
10140.00	Н	-38.16		
		Highest		
5130.00	Vertical	-40.72		
7695.00	V	-36.79		
10260.00	V	-35.21	-25.00	Door
5130.00	Horizontal	-40.26		Pass
7695.00	Н	-35.67		
10260.00	Н	-34.79		





		size 1 & RB offset 0)	for QPSK	
Frequency (MHz)		Emission	Limit (dBm)	Result
r requeries (Wir 12)	Polarization	Level (dBm)	Lillin (dDill)	resuit
		Lowest		
5015.00	Vertical	-36.24		
7522.50	V	-36.52		
10030.00	V	-34.51	25.00	Door
5015.00	Horizontal	-35.03	-25.00	Pass
7522.50	Н	-37.52		
10030.00	Н	-33.76		
		Middle		
5070.00	Vertical	-34.67		Pass
7605.00	V	-35.16		
10140.00	V	-34.48	25.00	
5070.00	Horizontal	-36.12	-25.00	
7605.00	Н	-35.48		
10140.00	Н	-35.36		
		Highest		
5125.00	Vertical	-36.17		
7687.50	V	-32.49		
10250.00	V	-34.26	-25.00	Doos
5125.00	Horizontal	-34.56		Pass
7687.50	Н	-29.26		
10250.00	Н	-32.04		





	20MHz(RB si	ize 1 & RB offset 0) for QPSK	
F (MIL)		Emission		D 14
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
5020.00	Vertical	-40.94		
7530.00	V	-36.62		
10040.00	V	-36.20	25.00	Door
5020.00	Horizontal	-38.69	-25.00	Pass
7530.00	Н	-37.59		
10040.00	Н	-36.55		
		Middle		
5070.00	Vertical	-38.29		Pass
7605.00	V	-33.83		
10140.00	V	-34.47	-25.00	
5070.00	Horizontal	-42.40	-25.00	
7605.00	Н	-40.24		
10140.00	Н	-38.11		
		Highest		
5120.00	Vertical	-40.70		
7680.00	V	-36.77]	
10240.00	V	-35.24	-25.00	Pass
5120.00	Horizontal	-40.27		rass
7680.00	Н	-35.66		
10240.00	Н	-34.75]	





LTE Band 12 Part:

		ize 1 & RB offset 0)	for QPSK	
	Spurious	Emission		
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1399.40	Vertical	-49.22		
2099.10	V	-38.46		
2798.80	V	-50.61	40	Door
1399.40	Horizontal	-51.66	-13	Pass
2099.10	Н	-46.10		
2798.80	Н	-49.96		
		Middle		
1415.00	Vertical	-50.13		
2122.50	V	-36.91		
2830.00	V	-49.92	- 13	Pass
1415.00	Horizontal	-50.42	-13	Pass
2122.50	Н	-43.84		
2830.00	Н	-51.41		
		Highest		
1430.60	Vertical	-50.49		
2145.90	V	-38.84		
2861.20	V	-50.81	-13	Door
1430.60	Horizontal	-52.05		Pass
2145.90	Н	-42.12		
2861.20	Н	-50.64	1	





	3MHz(RB si	ze 1 & RB offset 0) f	or QPSK			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result		
r requericy (ivii iz)	Polarization	Level (dBm)	Limit (abin)	Nesuit		
	Lowest					
1401.00	Vertical	-56.53				
2101.50	V	-49.12				
2802.00	V	-52.83	-13	Door		
1401.00	Horizontal	-56.84	-13	Pass		
2101.50	Н	-54.62				
2802.00	Н	-54.93				
		Middle				
1415.00	Vertical	-56.72				
2122.50	V	-48.13				
2830.00	V	-52.49	- 13	Door		
1415.00	Horizontal	-55.76	-13	Pass		
2122.50	Н	-52.03				
2830.00	Н	-56.50				
		Highest				
1429.00	Vertical	-55.42				
2143.50	V	-46.19				
2858.00	V	-52.03	-13	Pass		
1429.00	Horizontal	-54.94		Pass		
2143.50	Н	-51.38				
2858.00	Н	-52.21				





		e 1 & RB offset 0)	for QPSK	1
	Spurious	Emission		
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1403.00	Vertical	-49.24		
2104.50	V	-38.49	-	
2806.00	V	-50.56	40	Door
1403.00	Horizontal	-51.62	13	Pass
2104.50	Н	-46.13		
2806.00	Н	-49.93		
		Middle	•	·
1415.00	Vertical	-50.14		
2122.50	V	-36.92		
2830.00	V	-49.93	-13	Pass
1415.00	Horizontal	-50.46	-13	Pd55
2122.50	Н	-43.86		
2830.00	Н	-51.43		
		Highest		
1427.00	Vertical	-50.52		
2410.50	V	-38.81	-13	
2854.00	V	-50.83		Pass
1427.00	Horizontal	-52.06		Pass
2410.50	Н	-42.16		
2854.00	Н	-50.67		





	10MHz(RB siz	ze 1 & RB offset 0) t	for QPSK	
Fraguency (MHz)	Spurious Emission		Limit (dDm)	D II
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
		Lowest		
1408.00	Vertical	-56.52		
2112.00	V	-49.08		
2816.00	V	-52.81	-13	Pass
1408.00	Horizontal	-56.81	-13	F d 5 5
2112.00	Н	-54.59		
2816.00	Н	-51.89		
		Middle		
1415.00	Vertical	-56.68		
2122.50	V	-48.08		
2830.00	V	-52.45	-13	Pass
1415.00	Horizontal	-55.79	-13	F d 5 5
2122.50	Н	-52.04		
2830.00	Н	-56.51		
		Highest		
1422.00	Vertical	-55.38		
2133.00	V	-46.16		
2844.00	V	-52.04	-13	Pass
1422.00	Horizontal	-54.98		rass
2133.00	Н	-51.36		
2844.00	Н	-52.18		





LTE Band 17 Part:

5MHz(RB size 1 & RB offset 0) for QPSK							
Fraguency (MHz)	Frequency (MHz) Spurious Emission Frequency (MHz)						
1 requericy (Wil 12)	Polarization	Level (dBm)	Limit (dBm)	Result			
		Lowest					
1413.00	Vertical	-53.10					
2119.50	V	-47.77					
2826.00	V	-51.54	-13.00	Pass			
1413.00	Horizontal	-54.48	-13.00	Pass			
2119.50	Н	-51.81					
2826.00	Н	-51.82					
		Middle					
1420.00	Vertical	-53.05					
2130.00	V	-44.45		Dana			
2840.00	V	-51.06	40.00				
1420.00	Horizontal	-56.41	-13.00	Pass			
2130.00	Н	-48.44					
2840.00	Н	-51.74					
		Highest					
1427.00	Vertical	-53.49					
2140.50	V	-45.91					
2854.00	V	-51.32	40.00	Dana			
1427.00	Horizontal	-55.97	-13.00	Pass			
2140.50	Н	-48.45					
2854.00	Н	-50.76					





10MHz(RB size 1 & RB offset 0) for QPSK								
Fraguency (MHz)	Spurious	Emission	L' '(/ ID)	Result				
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result				
Lowest								
1418.00	Vertical	-53.02						
2127.00	V	-45.69						
2836.00	V	-50.27	-13.00	Pass				
1418.00	Horizontal	-57.37	-13.00	Pass				
2127.00	Н	-49.76						
2836.00	Н	-53.07						
		Middle						
1420.00	Vertical	-54.84		Pass				
2130.00	V	-46.12						
2840.00	V	-51.83	-13.00					
1420.00	Horizontal	-57.29	-13.00	rass				
2130.00	Н	-49.44						
2840.00	Н	-51.30						
		Highest						
1422.00	Vertical	-54.01						
2133.00	V	-48.29						
2844.00	V	-51.66	-13.00	Pass				
1422.00	Horizontal	-57.14	-13.00	rass				
2133.00	Н	-51.68						
2844.00	Н	-51.75		1				



6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
Test setup:	Spectrum analyzer EUT Att. Variable Power Supply
Test procedure:	 Note: Measurement setup for testing on Antenna connector 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 -30°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 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):





LTE Band 2(QPSK):

LTE Band 2(QPSK):							
Reference Fr	requency: LTE Band	2(1.4MHz) N	Middle channel=18900	channel=1880.00	OMHz		
Power supplied	Temperature (°C)	Fr	equency error	Limit (ppm)	Result		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppin)	Kesuit		
	-30	188	0.100000				
	-20	163	0.086702				
	-10	124	0.065957				
	0	106	0.056383				
3.80	10	137	0.072872	±2.5	Pass		
	20	149	0.079255				
	30	156	0.082979				
	40	137	0.072872				
	50	133	0.070745				
Reference F	requency: LTE Band	1 2(3MHz) M	liddle channel=18900 c	hannel=1880.00	MHz		
Power supplied	Temperature (°ℂ)	Fr	equency error	Limit (nnm)	Dooult		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result		
	-30	169	0.089894				
	-20	170	0.090426				
	-10	135	0.071809				
	0	146	0.077660				
3.80	10	160	0.085106	±2.5	Pass		
	20	174	0.092553				
	30	105	0.055851				
	40	122	0.064894				
	50	159	0.084574				
Reference F	requency: LTE Band	l 2(5MHz) M	liddle channel=18900 c	hannel=1880.00	MHz		
Power supplied (Vdc)	Temperature (°C)		equency error	Limit (ppm)	Result		
1 ower supplied (vdc)		Hz	ppm	Еппт (ррпп)	Nesuit		
	-30	136	0.072340				
	-20	147	0.078191				
	-10	108	0.057447				
	0	129	0.068617				
3.80	10	160	0.085106	±2.5	Pass		
	20	133	0.070745				
	30	156	0.082979				
	40	170	0.090426				
	50	180	0.095745	1			





Reference Fi	requency: LTE Band	2(10MHz) M	fiddle channel=18900	channel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)		Frequency error		Result
Tower cappilled (Vac)	` ` `	Hz	ppm	Limit (ppm)	rtoodit
	-30	167	0.088830		
	-20	145	0.077128		
	-10	138	0.073404		
	0	122	0.064894		
3.80	10	156	0.082979	±2.5	Pass
	20	128	0.068085		
	30	174	0.092553	1	
	40	179	0.095213	1	
	50	166	0.088298		
Reference Fi			fiddle channel=18900	channel-1880 00	MHz
TKCTCTCTTCC T	equency. LTL band				71V11 12
Power supplied (Vdc)	Temperature (°C)	Hz	equency error ppm	Limit (ppm)	Result
	-30	177	0.094149		Pass
	-20	163	0.086702		
	-10	158	0.084043		
	0	152	0.080851	±2.5	
3.80	10	141	0.075000		
	20	150	0.079787		
	30	130	0.069149	7	
	40	126	0.067021		
	50	156	0.082979		
Reference Fi	requency: LTE Band	2(20MHz) M	fiddle channel=18900	channel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)		equency error	Limit (ppm)	Daguit
1 ower cappiloa (vac)		Hz	ppm	Liiii (ppiii)	Result
	-30	177	0.094149	_	
	-20	163	0.086702	4	
	-10	108	0.057447	4	
0.00	0	152	0.080851	-	
3.80	10	145	0.077128	±2.5	Pass
	20	166	0.088298	-	
	30	108	0.057447	-	
	40	136	0.072340	4	
	50	127	0.067553		





LTE Band 2(16QAM):

LTE Band 2(16QAM):							
Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz							
Davisa avantia d () (da)	Temperature (°C)	F	requency error	Limit (ppm)	Danill		
Power supplied (Vdc)		Hz	ppm	Еши (ррш)	Result		
	-30	138	0.073404	1			
	-20	127	0.067553	1			
	-10	116	0.061702	-			
	0	109	0.057979				
3.80	10	122	0.064894	±2.5	Pass		
	20	120	0.063830				
	30	103	0.054787	-			
	40	118	0.062766				
	50	114	0.060638				
Reference F	requency: LTE Band	d 2(3MHz) N	Middle channel=18900 o	channel=1880.00	MHz		
Power supplied (Vdc)	Temperature (℃)	F	requency error	Limit (ppm)	Result		
		Hz	ppm	(- /			
	-30	169	0.089894	±2.5	Pass		
	-20	178	0.094681				
	-10	166	0.088298				
	0	174	0.092553				
3.80	10	105	0.055851				
	20	128	0.068085				
	30	146	0.07766				
	40	190	0.101064				
	50	155	0.082447				
Reference F	requency: LTE Band	d 2(5MHz) N	/liddle channel=18900 d	channel=1880.00	MHz		
Power supplied (Vdc)	Temperature (°C)		requency error	Limit (ppm)	Result		
1 ower supplied (vac)	, , ,	Hz	ppm	Еппт (ррпп)	result		
	-30	166	0.088298				
	-20	130	0.069149]			
	-10	128	0.068085				
	0	154	0.081915				
3.80	10	150	0.079787	±2.5	Pass		
	20	126	0.067021				
	30	149	0.079255				
	40	167	0.088830]			
	50	156	0.082979				





Reference Fr	requency: LTE Band	2(10MHz) N	/liddle channel=18900	channel=1880.00	MHz
Power supplied (Vdc)	Temperature (°C)	Fro Hz	equency error ppm	Limit (ppm)	Result
	-30	163	0.086702		
	-20	185	0.098404	-	
	-10	174	0.092553		
	0	126	0.067021	-	
3.80	10	152		±2.5	Pass
3.00	20	144	0.080851	12.5	1 833
			0.076596	-	
•	30	136	0.072340	-	
	40	128	0.068085	-	
	50	126	0.067021		
Reference F	requency: LTE Band	2(15MHz) N	Middle channel=18900	channel=1880.00)MHz
Power supplied (Vdc)	Temperature (°C)		requency error	Limit (ppm)	Result
1 ower supplied (vao)	. , ,	Hz	ppm	Ziiiii (ppiii)	resuit
	-30	152	0.080851		Pass
	-20	136	0.072340	_	
	-10	140	0.074468	-	
	0	133	0.070745	±2.5	
3.80	10	128	0.068085		
	20	150	0.079787	-	
	30	147	0.078191	_	
	40	146	0.077660	_	
	50	123	0.065426		
Reference F	requency: LTE Band	2(20MHz) N	Middle channel=18900	channel=1880.00)MHz
Power supplied (Vdc)	Temperature (°C)	Fı	requency error	Limit (ppm)	Result
1 ower supplied (vdc)	. ,	Hz	ppm	Еппі (ррпі)	resuit
	-30	167	0.088830		
	-20	152	0.080851		
	-10	150	0.079787		
	0	144	0.076596	_	
3.80	10	138	0.073404	±2.5	Pass
	20	132	0.070213	_	
	30	109	0.057979	4	
	40	126	0.067021	4	
	50	128	0.068085		





LTE Band 4(QPSK):

LTE Band 4(QPSK):						
Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz						
Power supplied	Temperature (°C)	Fr	equency error	Limit (ppm)	Result	
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Kesuit	
	-30	175	0.101010			
	-20	160	0.092352			
	-10	124	0.071573			
	0	105	0.060606			
3.80	10	133	0.076768	±2.5	Pass	
	20	126	0.072727			
	30	145	0.083694			
	40	146	0.084271			
	50	107	0.061760			
Reference I	requency: LTE Band	d 4(3MHz) N	/liddle channel=20175 o	channel=1732.50	MHz	
Power supplied (Vdc)	Temperature (°C)	F	requency error	Limit (ppm)	Result	
rower supplied (vac)	remperature (C)	Hz	ppm	Еши (ррш)		
	-30	169	0.097547	±2.5		
	-20	178	0.102742			
	-10	125	0.072150			
	0	136	0.078499			
3.80	10	146	0.084271		Pass	
	20	155	0.089466			
	30	128	0.073882			
	40	126	0.072727			
	50	105	0.060606			
Reference I	requency: LTE Band	d 4(5MHz) N	Middle channel=20175 o	channel=1732.50	MHz	
Power supplied (Vdc)	Temperature (°C)		requency error	Limit (ppm)	Result	
1 ower supplied (vdc)	` ` `	Hz	ppm	Еши (ррш)	Nesuit	
	-30	170	0.098124			
	-20	136	0.078499			
	-10	125	0.072150			
	0	126	0.072727			
3.80	10	142	0.081962	±2.5	Pass	
	20	103	0.059452			
	30	101	0.058297			
	40	125	0.072150			
	50	156	0.090043			





Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz						
Power supplied (Vdc)	Temperature (°C)		Frequency error		Result	
1 Ower supplied (vac)	` ` `	Hz	ppm	Limit (ppm)	result	
	-30	163	0.094084			
	-20	128	0.073882			
	-10	174	0.100433			
	0	180	0.103896			
3.80	10	126	0.072727	±2.5	Pass	
	20	108	0.062338			
	30	126	0.072727	1		
	40	123	0.070996	1		
	50	120	0.069264			
Reference F	requency: LTE Band	4(15MHz) N	Middle channel=20175	channel=1732.50	OMHz	
			requency error			
Power supplied (Vdc)	Temperature (℃)	Hz	ppm	Limit (ppm)	Result	
	-30	174	0.100433	±2.5	Pass	
	-20	163	0.094084			
	-10	152	0.087734			
	0	126	0.072727			
3.80	10	137	0.079076			
	20	159	0.091775			
	30	128	0.073882			
	40	166	0.095815			
	50	108	0.062338			
Reference F	requency: LTE Band	4(20MHz) N	Middle channel=20175	channel=1732.50	OMHz	
Power supplied (Vdc)	Temperature (°C)	Fı	requency error	Limit (nnm)	Result	
Power supplied (vdc)		Hz	ppm	Limit (ppm)	Result	
	-30	175	0.101010			
	-20	163	0.094084			
	-10	152	0.087734			
	0	146	0.084271	_		
3.80	10	130	0.075036	±2.5	Pass	
	20	128	0.073882	_		
	30	160	0.092352	_		
	40	159	0.091775			
	50	128	0.073882			





LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz							
Temperature (°C)	Frequency error		Limit (nnm)	Desuit			
	Hz	ppm	Еппі (рріп)	Result			
+		0.100433					
		0.093506					
		0.060606					
0		0.070996					
10		0.089466	±2.5	Pass			
20	162	0.093506					
30	106	0.061183					
40	127	0.073304					
50	136	0.078499					
requency: LTE Band	d 4(3MHz) M	liddle channel=20175 o	channel=1732.50	MHz			
Temperature (°C)	Fı	requency error	Limit (ppm)	Result			
	Hz	ppm	_ (PP)	. 130011			
-30	187	0.107937	±2.5	Pass			
-20	156	0.090043					
-10	156	0.090043					
0	141	0.081385					
10	136	0.078499					
20	105	0.060606					
30	126	0.072727					
40	147	0.084848					
50	126	0.072727					
requency: LTE Band	d 4(5MHz) N	liddle channel=20175 d	channel=1732.50	MHz			
Temperature (°C)	Fı	requency error	Limit (nnm)	Result			
remperature (C)	Hz	ppm	Еши (ррш)	Result			
-30	166	0.095815					
-20	145	0.083694					
-10	103	0.059452					
0	126]				
10	147	0.084848	±2.5	Pass			
20	146						
30	108]				
	129		-				
40	129	0.074459					
	requency: LTE Band Temperature (°C) -30 -20 -10 0 10 20 30 40 50 requency: LTE Band Temperature (°C) -30 -20 -10 0 10 20 30 40 50 requency: LTE Band Temperature (°C) -30 -20 -10 0 10 20 30 40 50 requency: LTE Band Temperature (°C) -30 -20 -10 0 10 20 30 -20 -10 0 10 20 30 -20 -10 0 10 20 30 -20 -10 0 10 20 30 -20 -10 0 10 20 30	requency: LTE Band 4(1.4MHz) Temperature (°C) Hz -30 174 -20 162 -10 105 0 123 10 155 20 162 30 106 40 127 50 136 requency: LTE Band 4(3MHz) Mark Temperature (°C) Hz -30 187 -20 156 -10 156 0 141 10 136 20 105 30 126 40 147 50 126 requency: LTE Band 4(5MHz) Mark Temperature (°C) Find 136 20 105 30 126 40 147 50 126 requency: LTE Band 4(5MHz) Mark Temperature (°C) Find 136 20 105 30 126 40 147 50 126 145 -10 103 0 126 104 147 20 146 30 108	Temperature (°C)	Temperature (°C)			





Reference Fi	requency: LTE Band	4(10MHz) N	fiddle channel=20175	channel=1732.50)MHz
Power supplied (Vdc)	Temperature (°C)		Frequency error		Result
1 ower supplied (vac)	` ` `	Hz	ppm	Limit (ppm)	resuit
	-30	177	0.102165		
	-20	156	0.090043		
	-10	126	0.072727		
	0	185	0.106782		
3.80	10	163	0.094084	±2.5	Pass
	20	174	0.100433		
	30	166	0.095815]	
	40	123	0.070996		
	50	127	0.073304		
Reference F	requency: LTE Band	4(15MHz) N	Middle channel=20175	channel=1732.50	OMHz
Power supplied (Vdc)	Tomporatura (°C)	Fı	equency error	Limit (ppm)	Result
Power supplied (vac)	Temperature (℃)	Hz	ppm		Result
	-30	178	0.102742	±2.5	Pass
	-20	152	0.087734		
	-10	163	0.094084		
	0	102	0.058874		
3.80	10	145	0.083694		
	20	106	0.061183		
	30	125	0.072150		
	40	134	0.077345		
	50	160	0.092352		
Reference F	requency: LTE Band	4(20MHz) N	Middle channel=20175	channel=1732.50	OMHz
Power supplied (Vdc)	Temperature (°C)		equency error	Limit (ppm)	Result
1 owor oupplied (vae)	`	Hz	ppm	Σιτιιι (ρριτι)	rtoodit
	-30	147	0.084848		
	-20	162	0.093506	_	
	-10	105	0.060606	_	
3.80	0	136	0.078499	1	
	10	146	0.084271	±2.5	Pass
	20	157	0.090620	1	
	30	149	0.086003	_	
	40	155	0.089466		
	50	129	0.074459		





LTE Band 7(QPSK):

		LTE Band			
	requency: LTE Band		ddle channel=21100Fre	equency=2535.00	OMHz
Power supplied	Temperature (°C)	Fr	equency error	Line it (many)	Descrip
(Vdc)	remperature (c)	Hz	ppm	Limit (ppm)	Result
	-30	190	0.074951		
	-20	126	0.049704		
	-10	135	0.053254		
	0	146	0.057594		
3.80	10	174	0.068639	±2.5	Pass
	20	177	0.069822	12.5	1 833
	30	125	0.049310		
	40	120	0.047337		
	50	130	0.051282	1	
Reference Fi			iddle channel=21100 F	requency=2535	NOMHz
Power supplied		·	requency error		OOWII IZ
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
(100)	-30	162	0.063905		
	-20	158	0.062327	-	
	-10	174		-	
	0	174	0.068639		
0.00			0.067061	4	
3.80	10	136	0.053649	±2.5	Pass
	20	133	0.052465	-	
	30	152	0.059961		
	40	159	0.062722		
	50	168	0.066272		
	requency: LTE Band 7	,	iddle channel=21100 F	requency=2535.	00MHz
Power supplied	Temperature (°C)		requency error	Limit (ppm)	Result
(Vdc)	, , ,	Hz	ppm	Z (pp)	rtoodit
	-30	136	0.053649		
	-20	168	0.066272	_	
	-10	107	0.042209	_	
2.00	0	159	0.062722	.0.5	Daga
3.80	10 20	185 180	0.072978 0.071006	±2.5	Pass
	30	126	0.049704		
	40	147	0.049704	-	
	50	136	0.057560	1	
Reference Fu			iddle channel=21100 F	requency=2535	00MHz
Power supplied		`	requency error		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
(1.00)	-30	152	0.059961		
	-20	146	0.057594		
	-10	166	0.065483		
	0	167	0.065878		
3.80	10	152	0.059961	±2.5	Pass
	20	136	0.053649	_	
	30	190	0.074951		
	40	158	0.062327	_	
	50	126	0.049704		





LTE Band 7(16QAM):

		LTE Band		2-2-	
	requency: LTE Band		ddle channel=21100Fr	equency=2535.00	IMHz
Power supplied	Temperature (°C)	Fr	equency error	Limit (ppm)	Result
(Vdc)	, (0)	Hz	ppm	Littit (ppiti)	Result
	-30	147	0.057988	_	
	-20	146	0.057594	_	
	-10	152	0.059961		
	0	136	0.053649		
3.80	10	155	0.061144	±2.5	Pass
	20	142	0.056016		. 0.00
	30	140	0.055227		
	40	126	0.049704		
	50	126	0.049704		
Reference Fi			iddle channel=21100 F	requency=2535.0	00MHz
Power supplied	Temperature (°C)		requency error		
(Vdc)	(0)	Hz	ppm	Limit (ppm)	Result
	-30	174	0.068639		
	-20	163	0.064300		
	-10	158	0.062327	1	
	0	128	0.050493	±2.5	
3.80	10	106	0.041815		Pass
	20	185	0.072978		1 433
	30	174	0.068639		
	40	156	0.061538	-	
	50	163	0.064300	-	
Reference F			iddle channel=21100 F	requency=2535 (OMH7
Power supplied			requency error		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
(100)	-30	147	0.057988		
	-20	163	0.064300	-	
	-10	160	0.063116	-	
	0	155	0.061144		
3.80	10	128	0.050493	2.5	Pass
	20	146	0.057594		
	30	108	0.042604		
	40	136	0.053649		
	50	125	0.049310		
	requency: LTE Band 7		iddle channel=21100 F	requency=2535.0	00MHz
Power supplied (Vdc)	Temperature (°C)	Hz	requency error ppm	Limit (ppm)	Result
(v do)	-30	132	0.052071		
	-20	105	0.041420	1	
	-10	126	0.049704		
	0	142	0.056016	1	
3.80	10	108	0.042604	2.5	Pass
	20	133	0.052465		
	30	128	0.050493		
	40	159	0.062722	_	
	50	147	0.057988		





LTE Band 12(QPSK):

LTE Band 12(QPSK):							
	equency: LTE Band 1		Middle channel=23095I	requency=707.5	0MHz		
Power supplied	Temperature (°C)		equency error	Limit (nnm)	Dogult.		
(Vdc)	. ,	Hz	ppm	Limit (ppm)	Result		
	-30	126	0.178092				
	-20	102	0.144170				
	-10	114	0.161131				
	0	106	0.149823				
3.70	10	103	0.145583	±2.5	Pass		
	20	115	0.162544	<u> </u>	1 455		
	30	120	0.169611				
	40	122	0.172438				
	50	109	0.154064				
Reference I			Middle channel=23095F	requency=707.50	OMHz		
Power supplied		1	requency error		·····-		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result		
(/	-30	142	0.200707				
	-20	136	0.192226	-			
	-10	158	0.223322	-			
	0	155	0.219081				
3.70	10	192		±2.5 Pa	_		
3.70			0.271378		Pass		
	20	163	0.230389				
	30	137	0.193640				
	40	125	0.176678				
	50	126	0.178092				
	requency: LTE Band	· · · · · · · · · · · · · · · · · · ·	Middle channel=23095F	requency=707.50	OMHz		
Power supplied	Temperature (°C)	Hz	requency error	Limit (ppm)	Result		
(Vdc)	-30	142	ppm 0.200707				
	-20	120	0.169611				
	-10	136	0.192226				
	0	152	0.214841				
3.70	10	150	0.212014	±2.5	Pass		
0.7 0	20	144	0.203534		. 400		
	30	146	0.206360				
	40	128	0.180919				
	50	160	0.226148				
Reference F	requency: LTE Band	12(10MHz)	Middle channel=23095	Frequency=707.5	i0MHz		
Power supplied	Tomporature (°C)	F	requency error	Limit (none)	Danielt		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result		
	-30	157	0.221908				
	-20	156	0.220495	1			
	-10	120	0.169611	1			
	0	120	0.169611	_			
3.70	10	136	0.192226	±2.5	Pass		
	20	148	0.209187	_			
	30	177	0.250177	_[
	40	179	0.253004	_			
	50	169	0.238869				





LTE Band 12(16QAM):

Reference Fr		LTE Band 1 2(1.4MHz) N	, ,	5Frequency=707.5	OMHz			
Power supplied	Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz							
(Vdc)	Temperature ($^{\circ}$)	Hz	equency error ppm	Limit (ppm)	Result			
	-30	156	0.220495					
	-20	174	0.245936					
	-10	103	0.145583					
	0	152	0.214841					
3.70	10	160	0.226148	.2.5	Door			
0.70	20	124	0.175265	±2.5	Pass			
	30	126	0.178092	-				
	40	174	0.245936	-				
	50	152		-				
Poforonco F			0.214841 Middle channel=23095	Frequency=707.50	MH-2			
	Tequency. LTL band			Tequency=707.30	JIVII IZ			
Power supplied	Temperature (°C)		requency error	Limit (ppm)	Result			
(Vdc)		Hz	ppm	Ziiiii (ppiii)				
	-30	169	0.238869					
	-20	166	0.234629					
	-10	178	0.251590					
	0	179	0.253004					
3.70	10	150	0.212014	±2.5	Pass			
	20	136	0.192226	1 12.0	1 033			
	30	125	0.176678					
	40	142	0.200707					
	50	156	0.220495	-				
Reference F			Middle channel=23095	Frequency=707.5(JWH ²			
Power supplied			requency error					
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result			
(1 22)	-30	174	0.245936					
	-20	155	0.219081					
	-10	163	0.230389					
	0	185	0.261484					
3.70	10	180	0.254417	2.5	Pass			
	20	147	0.207774					
	30	125	0.176678					
	40	128	0.180919					
	50	180	0.254417					
	requency: LTE Band	· ,	Middle channel=2309	5Frequency=707.5	0MHz			
Power supplied	Temperature (°C)		requency error	Limit (ppm)	Result			
(Vdc)		Hz	ppm	- (11 /				
	-30	147	0.207774					
		163	0.230389	-				
	-20 10		0.476670					
	-10	125	0.176678	-				
3 70	-10 0	125 145	0.204947	_ _ _ ₂₅	Pacc			
3.70	-10 0 10	125 145 185	0.204947 0.261484	2.5	Pass			
3.70	-10 0 10 20	125 145 185 180	0.204947 0.261484 0.254417	2.5	Pass			
3.70	-10 0 10	125 145 185	0.204947 0.261484	2.5	Pass			





LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz							
Power supplied	Temperature (°ℂ)	Frequency error		1 ! !(/)	,		
(Vdc)	Tomporatoro (C)	Hz	ppm	Limit (ppm)	Result		
	-30	167	0.235211				
	-20	105	0.147887				
	-10	123	0.173239				
	0	133	0.187324				
3.80	10	114	0.160563	±2.5	Pass		
	20	105	0.147887				
	30	122	0.171831				
	40	130	0.183099				
	50	152	0.214085				
Reference F	requency: LTE Band	17(10MHz)	Middle channel=23790	channel=710.0	OMHz		
Power supplied	Temperature (°ℂ)	F	requency error		5 "		
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppm)	Result		
	-30	185	0.260563				
	-20	166	0.233803				
	-10	174	0.245070				
	0	170	0.239437				
3.80	10	152	0.214085	±2.5	Pass		
	20	152	0.214085				
	30	163	0.229577				
	40	152	0.214085				
	50	148	0.208451				

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(16QAM): Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz								
Power supplied		10.00	VII 14					
(Vdc)	Temperature (°C)	Hz	equency error ppm	Limit (ppm)	Result			
	-30	166	0.233803					
	-20	199	0.280282					
	-10	163	0.229577					
	0	174	0.245070					
3.80	10	152	0.214085	±2.5	Pass			
	20	162	0.228169		1 400			
	30	152	0.214085					
	40	133	0.187324					
	50	124	0.174648					
Reference F	requency: LTE Band	17(10MHz)	Middle channel=23790	channel=710.0	OMHz			
Power supplied	Temperature (°ℂ)	Frequency error		Limit (mmm)	Danile			
(Vdc)	Tomporataro (c)	Hz	ppm	Limit (ppm)	Result			
	-30	126	0.177465					
	-20	124	0.174648					
	-10	105	0.147887					
	0	136	0.191549					
3.80	10	152	0.214085	±2.5	Pass			
	20	120	0.169014					
	30	130	0.183099]				
	40	124	0.174648					
	50	155	0.218310					



6.13 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 specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed





Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference F	requency: LTE Band	2(1.4MHz) Middle	•	channel=1880 00)MHz			
. (0.0.0.00	Power supplied	,	ncy error		-			
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	63	0.033511					
25	3.80	74	0.039362	±2.5	Pass			
	3.23	89	0.047340		. 466			
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz								
- (00)	Power supplied	Freque	ncy error					
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	99	0.052660					
25	3.80	75	0.039894	±2.5	Pass			
	3.23	80	0.042553					
Reference F	requency: LTE Band	d 2(5MHz) Middle	channel=18900 c	channel=1880.00l	ИНz			
- (00)	Power supplied	Freque	ncy error					
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	63	0.033511	±2.5				
25	3.80	66	0.035106		Pass			
	3.23	50	0.026596					
Reference F	requency: LTE Band	2(10MHz) Middle	channel=18900	channel=1880.00	MHz			
	Power supplied	Freque	ncy error	Limit (ppm)				
Temperature (℃)	(Vdc)	Hz	ppm		Result			
	4.37	89	0.047340					
25	3.80	74	0.039362	±2.5	Pass			
	3.23	77	0.040957					
Reference F	requency: LTE Band	2(15MHz) Middle	channel=18900	channel=1880.00	MHz			
T(°C)	Power supplied	Freque	ncy error	1				
Temperature ($^{\circ}$ C)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	85	0.045213					
25	3.80	55	0.029255	±2.5	Pass			
	3.23	90	0.047872					
Reference F	requency: LTE Band	2(20MHz) Middle	channel=20175	channel=1880.00	MHz			
Town over true (°C)	Power supplied	Freque	ncy error	12.27(1.2.2)	D !!			
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result			
	4.37	85	0.045213					
25	3.80	74	0.039362	±2.5	Pass			
	3.23	71	0.037766					





LTE Band 2(16QAM):

		LTE Band 2(16	QAM):		
Reference Fr	equency: LTE Band	2(1.4MHz) Middle	e channel=18900	channel=1880.00)MHz
Tomporatura (°C)	Power supplied	Frequer	ncy error		D 1
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	74	0.039362		
25	3.80	88	0.046809	±2.5	Pass
	3.23	96	0.051064		
Reference F	requency: LTE Band	d 2(3MHz) Middle	channel=18900 c	hannel=1880.00ľ	МНz
T(%C)	Power supplied	Frequer	ncy error		D 1
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	90	0.047872		
25	3.80	74	0.039362	±2.5	Pass
	3.23	70	0.037234		
Reference F	requency: LTE Band	2(5MHz) Middle	channel=18900 c	:hannel=1880.00ľ	ИНz
- (00)	Power supplied	Frequer	ncy error		
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	66	0.035106		
25	3.80	85	0.045213	±2.5	Pass
	3.23	94	0.050000]	
Reference F	requency: LTE Band	2(5MHz) Middle	channel=18900 c	hannel=1880.00ľ	ИНz
- (00)	Power supplied	Frequency error			
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	63	0.033511		
25	3.80	85	0.045213	±2.5	Pass
	3.23	74	0.039362	1	
Reference F	requency: LTE Band	2(15MHz) Middle	channel=18900	channel=1880.00	MHz
- (00)	Power supplied	Frequer	ncy error		
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	89	0.047340		
25	3.80	82	0.043617	±2.5	Pass
	3.23	74	0.039362	1	
Reference F	requency: LTE Band	2(20MHz) Middle	channel=18900	channel=1880.00	MHz
Tomporoture (°C)	Power supplied	Frequer	ncy error	Limit ()	Der U
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	90	0.047872		
25	3.80	66	0.035106	±2.5	Pass
	3.23	57	0.030319		





LTE Band 4(QPSK):

LTE Band 4(QPSK):							
Reference Fi	requency: LTE Band	4(1.4MHz) Middle	channel=20175	channel=1732.50)MHz		
Tomporatura (°C)	Power supplied	Frequer	ncy error	Lineit (none)	,		
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	74	0.042713				
25	3.80	80	0.046176	±2.5	Pass		
	3.23	66	0.038095				
Reference F	requency: LTE Band	d 4(3MHz) Middle	channel=20175 c	hannel=1732.50ľ	MHz		
T (%C)	Power supplied	Frequer	ncy error		_		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	85	0.049062				
25	3.80	74	0.042713	±2.5	Pass		
	3.23	63	0.036364				
Reference F	requency: LTE Band	d 4(5MHz) Middle	channel=20175 c	hannel=1732.50ľ	ИНz		
- (00)	Power supplied	Frequer	ncy error		_		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	81	0.046753				
25	3.80	47	0.027128	±2.5	Pass		
	3.23	66	0.038095				
Reference F	requency: LTE Band	4(10MHz) Middle	channel=20175	channel=1732.50	MHz		
- (00)	Power supplied	Frequer	ncy error	Limit (ppm)	_		
Temperature (°C)	(Vdc)	Hz	ppm		Result		
	4.37	85	0.049062				
25	3.80	66	0.038095	±2.5	Pass		
	3.23	74	0.042713				
Reference F	requency: LTE Band	4(15MHz) Middle	channel=20175	channel=1732.50	MHz		
T (°C)	Power supplied	Frequer	ncy error	1			
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	80	0.046176				
25	3.80	63	0.036364	±2.5	Pass		
	3.23	55	0.031746	1			
Reference F	requency: LTE Band	4(20MHz) Middle	channel=20175	channel=1732.50	MHz		
T(°C)	Power supplied	Frequer	ncy error		5		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	78	0.045022				
25	3.80	78	0.045022	±2.5	Pass		
	3.23	55	0.031746				





LTE Band 4(16QAM):

		LTE Band 4(16	QAM):		
Reference Fro	equency: LTE Band	4(1.4MHz) Middle	e channel=20175	channel=1732.50	MHz
Tomporatura (°C)	Power supplied	Frequer	ncy error	Limit (mmm)	Dogult
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
_	4.37	63	0.036364		
25	3.80	85	0.049062	±2.5	Pass
	3.23	74	0.042713		
Reference F	requency: LTE Band	I 4(3MHz) Middle	channel=20175 c	hannel=1732.50N	ИHz
T (%C)	Power supplied	Frequer	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	90	0.051948		
25	3.80	82	0.047330	±2.5	Pass
	3.23	74	0.042713		
Reference F	requency: LTE Band	I 4(5MHz) Middle	channel=20175 c	hannel=1732.50N	ИHz
- (00)	Power supplied	Frequer	ncy error		
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	50	0.028860		
25	3.80	66	0.038095	±2.5	Pass
	3.23	42	0.024242		
Reference Fr	equency: LTE Band	4(10MHz) Middle	channel=20175	channel=1732.50	MHz
- (00)	Power supplied	Frequer	ncy error	Limit (ppm)	
Temperature (°C)	(Vdc)	Hz	ppm		Result
	4.37	74	0.042713		
25	3.80	60	0.034632	±2.5	Pass
	3.23	52	0.030014		
Reference Fr	equency: LTE Band	4(15MHz) Middle	channel=20175	channel=1732.50	MHz
T(%C)	Power supplied	Frequer	ncy error		- ·
Temperature (°C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	89	0.051371		
25	3.80	88	0.050794	±2.5	Pass
	3.23	67	0.038672		
Reference Fr	requency: LTE Band	4(20MHz) Middle	channel=20175	channel=1732.50	MHz
T (90)	Power supplied	Frequer	ncy error		5
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	80	0.046176		
25				±2.5	Door
25	3.80	76	0.043867	±2.5	Pass





LTE Band 7(QPSK):

		LIE Ballu / (G	: Oity.		
Reference Fr	equency: LTE Band	7(5MHz) Middle	channel=21100 Fr	equency=2535.0	0MHz
Temperature (°ℂ)	Power supplied	Freque	ncy error	Limit (ppm)	Result
Tomporataro (©)	(Vdc)	Hz	ppm	Еппі (рріп)	Result
	4.37	36	0.014201		
25	3.80	66	0.026036	±2.5	Pass
	3.23	74	0.029191		
Reference Fre	equency: LTE Band 7	(10MHz) Middle	channel=21100 F	requency=2535.0	00MHz
Temperature (°ℂ)	Power supplied	Freque	ncy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	78	0.030769	±2.5	Pass
25	3.80	89	0.035108		
	3.23	52	0.020513		
Reference Fre	equency: LTE Band 7	(15MHz) Middle	channel=21100 F	requency=2535.0	00MHz
Temperature (°ℂ)	Power supplied	Frequency error		Limit (nnm)	Dogult
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	67	0.026430		
25	3.80	74	0.029191	±2.5	Pass
	3.23	79	0.031164		
Reference Fre	equency: LTE Band 7	(20MHz) Middle	channel=21100 F	requency=2535.0	00MHz
Temperature (°ℂ)	Power supplied	Freque	ncy error		Doguit
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result
	4.37	58	0.022880		
25	3.80	67	0.026430	±2.5	Pass
	3.23	90	0.035503		





LTE Band 7(16QAM):

		LIE Ballu /(10	WAIVI).				
Reference Fi	requency: LTE Band	7(5MHz) Middle c	hannel=21100 Fr	equency=2535.0	OMHz		
Temperature (°ℂ)	Power supplied	Freque	ncy error	Limit (nnm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Resuit		
	4.37	70	0.027613				
25	3.80	52	0.020513	±2.5	Pass		
	3.23	66	0.026036				
Reference Fr	equency: LTE Band 7	(10MHz) Middle	channel=21100 F	requency=2535.0	0MHz		
Temperature (°C)	Power supplied	Freque	ncy error	Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppin)	Result		
	4.37	87	0.034320	±2.5			
25	3.80	85	0.033531		Pass		
	3.23	46	0.018146				
Reference Fr	equency: LTE Band 7	(15MHz) Middle	channel=21100 F	requency=2535.0	0MHz		
Temperature (°ℂ)	Power supplied	Frequency error		Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	52	0.020513				
25	3.80	63	0.024852	±2.5	Pass		
	3.23	74	0.029191				
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz							
Temperature (°C)	Power supplied	Freque	ncy error	Limit (none)	Result		
Tomperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Kesuit		
	4.37	60	0.023669				
25	3.80	74	0.029191	±2.5	Pass		
	3.23	71	0.028008				





LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C)			LIL Dana 12(0	ki Oitj.				
Temperature (°C)	Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz							
1.37 72 0.101767 ±2.5 Pass	Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Pocult		
25 3.80 50 0.070671 ±2.5 Pass	remperature (C)	(Vdc)	Hz	ppm	Еппі (рріп)	Nesuit		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C)		4.37	72	0.101767				
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C)	25	3.80	50	0.070671	±2.5	Pass		
Temperature (℃) Power supplied (Vdc) Frequency error ppm Limit (ppm) Result 25 4.37 77 0.108834 ±2.5 Pass 3.23 89 0.125795 ±2.5 Pass Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 62 0.087633 ±2.5 Pass 3.23 3.23 33 0.046643 ±2.5 Pass Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz Temperature (℃) Power supplied (Vdc) Frequency error Limit (ppm) Limit (ppm) Result		3.23	63	0.089046				
Temperature (°C)	Reference Fr	equency: LTE Band	12(3MHz) Middle	channel=23095F	requency=707.50)MHz		
1	Tomporature (°C)	Power supplied	Freque	ncy error	Limit (nnm)	Dogult		
3.80 72 0.101767 ±2.5 Pass	remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
3.23 89 0.125795		4.37	77	0.108834				
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Hz Limit (ppm) Result 25 3.80 62 0.087633 ±2.5 Pass 3.23 33 0.046643 t2.5 Pass Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Limit (ppm) Result	25	3.80	72	0.101767	±2.5	Pass		
Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result 25 3.80 62 0.087633 ±2.5 Pass 3.23 33 0.046643 temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result Temperature (°C) Power supplied (Vdc) Frequency error Limit (ppm) Result		3.23	89	0.125795	1			
Column C	Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz							
1	Temperature (°C)	Power supplied	Freque	ncy error	Limit (nnm)	Dogult		
25 3.80 62 0.087633 ±2.5 Pass 3.23 33 0.046643 Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C) Power supplied Frequency error Limit (ppm) Result	remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
3.23 33 0.046643 Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C) Power supplied Frequency error Limit (ppm) Result		4.37	90	0.127208	±2.5	Pass		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz Temperature (°C) Power supplied Frequency error (V/de) Limit (ppm) Result	25	3.80	62	0.087633				
Temperature (°C) Power supplied Frequency error Limit (ppm) Result		3.23	33	0.046643				
Temperature (C) (Vdo) Limit (ppm) Result	Reference Fre	equency: LTE Band 1	12(10MHz) Middle	channel=23095F	requency=707.5	0MHz		
	Tomporature (°C)	• •	Frequency error		Limit (nnm)	Dogult		
	remperature (C)	(Vdc)	Hz	ppm	Limit (ppin)	Result		
4.37 74 0.104594	25	4.37	74	0.104594	±2.5	Pass		
25 3.80 80 0.113074 ±2.5 Pass		3.80	80	0.113074				
3.23 56 0.079152		3 23	- FG	0.070152				





LTE Band 12(16QAM):

		LIE Band 12(10	OQAIVI).				
Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz							
Temperature (℃)	Power supplied	Frequency error		Limit (ppm)	Decult		
Temperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.37	88	0.124382	<u></u>			
25	3.80	74	0.104594	±2.5	Pass		
	3.23	90	0.127208				
Reference F	requency: LTE Band	12(3MHz) Middle	channel=23095F	requency=707.50	OMHz		
Temperature (℃)	Power supplied	Freque	ncy error	Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Еши (ррш)			
	4.37	78	0.110247				
25	3.80	69	0.097527	±2.5	Pass		
	3.23	85	0.120141	1			
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz							
Temperature $(^{\circ}\!$	Power supplied	Frequency error		Lineit (none)	Decult		
	(Vdc)	Hz	ppm	Limit (ppm)	Result		
25	4.37	96	0.135689	±2.5	Pass		
	3.80	85	0.120141				
	3.23	74	0.104594				
Reference Fr	equency: LTE Band	12(10MHz) Middle	e channel=23095F	requency=707.5	0MHz		
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result		
romporatoro (C)	(Vdc)	Hz	ppm	Limit (ppm)	Nesuit		
25	4.37	66	0.093286	±2.5	Pass		
	3.80	38	0.053710				
	3.23	74	0.104594				





LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz						
Temperature (°C)	Power supplied	· · · · · · · · · · · · · · · · · · ·	ncy error	Limit (ppm)	Result	
•	(Vdc)	Hz	ppm	(pp)		
	4.37	89	0.125352			
25	3.80	80	0.112676	±2.5	Pass	
	3.23	74	0.104225			
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
	(Vdc)	Hz	ppm	Еши (ррш)	Kesuit	
	4.37	66	0.092958			
25	3.80	82	0.115493	±2.5	Pass	
	3.23	56	0.078873			

LTE Band 17(16QAM):

		LTE Band 17(10	SQAM):			
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz						
Temperature (°C)	Power supplied		ncy error	Limit (ppm)	Result	
- , ,	(Vdc)	Hz	ppm	- (11)		
	4.37	78	0.109859	±2.5	Pass	
25	3.80	90	0.126761			
	3.23	85	0.119718			
Reference F	requency: LTE Band	17(10MHz) Midd	le channel=23790	channel=710.00	00MHz	
Temperature (℃)	Power supplied	Freque	Frequency error		Result	
	(Vdc)	Hz	ppm	Limit (ppm)	Nesult	
25	4.37	77	0.108451	±2.5	Pass	
	3.80	90	0.126761			
	3.23	75	0.105634			