

FCC Radio Test Report

FCC ID: QISEA380-135

This report concerns (check one): Original Grant Class II Change

Project No. : 1612C268
Equipment : LTE CPE
Model Name : eA380-135
Applicant : Huawei Technologies Co. ,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen,518129, P.R.C

Date of Receipt : Dec. 27, 2016
Date of Test : Dec. 27, 2016 ~ May 16, 2017
Issued Date : May 16, 2017
Tested by : BTL Inc.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1612C268	Original Issue.	May 16, 2017

1. CERTIFICATION

Equipment : LTE CPE
Brand Name : HUAWEI
Model Name : eA380-135
Applicant : Huawei Technologies Co., Ltd.
Manufacturer : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen, 518129, P.R.C
Factory : Shenzhen Zowee Technology Co., Ltd
Address : Shenzhen songgang town pond under chung industrial avenue with rich
industrial area
Date of Test : Dec. 27, 2016 ~ May 16, 2017
Test Sample : Engineering Sample
Standard(s) : 47 CFR FCC Part 90
47 CFR FCC Part 2 & ANSI/TIA-603-D-2010
FCC KDB 971168 D01 Power Meas License Digital Systems v02r02
FCC KDB 552295 D01 CBP Guidance for 3650 3700 Band v02r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1612C268) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the LTE Band 43(with CA_43C) part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 90 & Part 2			
Standard(s) Section	Test Item	Judgment	Tested By
2.1046 & 90.1321(a)	Radiated power	PASS	Paul Li
2.1046 & 90.1321(a)	Conducted Output Power	PASS	Paul Li
2.1049	Occupied Bandwidth	PASS	Paul Li
2.1051 & 90.1323	Conducted Spurious Emissions	PASS	Paul Li
2.1053 & 90.1323	Radiated Spurious Emissions	PASS	Paul Li
2.1051 & 90.1323	Band Edge Measurements	PASS	Paul Li
2.1046 & 90.1321(a)	Power Spectral Density	PASS	Paul Li
2.1055	Frequency Stability	PASS	Paul Li
2.1051 & 90.210	Emission Mask	PASS	Paul Li

Note:

(1) "N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (1m)	CISPR	18GHz ~ 40GHz	V	4.15
		18GHz ~ 40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE CPE			
Brand Name	HUAWEI			
Model Name	eA380-135			
Model Difference	N/A			
Modulation Type	QPSK, 16QAM			
Operation Mode	Band 43&CA_43C(Intra-band Contiguous) *The EUT support 1TX and 4RX.			
Operation Frequency_Band 43	Bandwidth: 5MHz	3652.5 ~ 3697.5(MHz)		
	Bandwidth: 10MHz	3655 ~ 3695(MHz)		
	Bandwidth: 15MHz	3657.5 ~ 3692.5(MHz)		
	Bandwidth: 20MHz	3660 ~ 3690(MHz)		
Max. EIRP Power_Band 43	Bandwidth: 5MHz	QPSK	36.40	dBm
		16QAM	35.86	dBm
	Bandwidth: 10MHz	QPSK	36.53	dBm
		16QAM	36.16	dBm
	Bandwidth: 15MHz	QPSK	36.41	dBm
		16QAM	35.76	dBm
	Bandwidth: 20MHz	QPSK	36.41	dBm
		16QAM	36.01	dBm
Max. EIRP Power_CA_43C (3600~3650)	Bandwidth: 5MHz+20MHz	QPSK	34.62	dBm
		16QAM	34.82	dBm
	Bandwidth: 20MHz+5MHz	QPSK	34.62	dBm
		16QAM	35.00	dBm
	Bandwidth: 10MHz+20MHz	QPSK	34.52	dBm
		16QAM	34.65	dBm
	Bandwidth: 20MHz+10MHz	QPSK	34.50	dBm
		16QAM	34.81	dBm
	Bandwidth: 15MHz+20MHz	QPSK	34.49	dBm
		16QAM	34.70	dBm
	Bandwidth: 20MHz+15MHz	QPSK	34.75	dBm
		16QAM	34.40	dBm
	Bandwidth: 20MHz+20MHz	QPSK	35.43	dBm
		16QAM	36.77	dBm

Max. EIRP Power_CA_43C (3650~3700)	Bandwidth: 5MHz+20MHz	QPSK	34.74	dBm
		16QAM	34.71	dBm
	Bandwidth: 20MHz+5MHz	QPSK	34.70	dBm
		16QAM	34.88	dBm
	Bandwidth: 10MHz+20MHz	QPSK	34.67	dBm
		16QAM	34.78	dBm
	Bandwidth: 20MHz+10MHz	QPSK	34.26	dBm
		16QAM	34.35	dBm
	Bandwidth: 15MHz+20MHz	QPSK	34.26	dBm
		16QAM	34.30	dBm
	Bandwidth: 20MHz+15MHz	QPSK	35.11	dBm
		16QAM	35.00	dBm
	Bandwidth: 20MHz+20MHz	QPSK	34.35	dBm
		16QAM	34.18	dBm
Operation Frequency_CA_43C	Please refer to note 2			
Antenna Type	Fixed Internal Antenna			
Antenna Gain	13dBi			
Hardware Version	VER.A			
Software Version	V100R001			
IMEI No.	864007030007488			
Power Source	Supplied from PoE.			
Power Rating	I/P: AC 90V~264V, DC: 54V/650mA			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The Operation Frequency for CA 43C:

Frequency	CC Combination /Nrb	CC Nrb	NuL	Frequency of Uplink	NdL	Frequency of Downlink
3600~3650	100+25	PCC100	43690	3610	43690	3610
		SCC25	43807	3621.7	43807	3621.7
	25+100	PCC25	43873	3628.3	43873	3628.3
		SCC100	43990	3640	43990	3640
	100+50	PCC100	43690	3610	43690	3610
		SCC50	43834	3624.4	43834	3624.4
	50+100	PCC50	43846	3626.6	43846	3626.6
		SCC100	43990	3640	43990	3640
	100+75	PCC100	43690	3610	43690	3610
		SCC75	43861	3627.1	43861	3627.1
	75+100	PCC75	43819	3622.9	43819	3622.9
		SCC100	43990	3640	43990	3640
	100+100	PCC100	43690	3610	43690	3610
		SCC100	43888	3629.8	43888	3629.8
3650~3700	100+25	PCC100	44190	3660	44190	3660
		SCC25	44307	3671.7	44307	3671.7
	25+100	PCC25	44373	3678.3	44373	3678.3
		SCC100	44490	3690	44490	3690
	100+50	PCC100	44190	3660	44190	3660
		SCC50	44334	3674.4	44334	3674.4
	50+100	PCC50	44346	3675.6	44346	3675.6
		SCC100	44490	3690	44490	3690
	100+75	PCC100	44190	3660	44190	3660
		SCC75	44361	3677.1	44361	3677.1
	75+100	PCC75	44319	3672.9	44319	3672.9
		SCC100	44490	3690	44490	3690
	100+100	PCC100	44240	3665	44240	3665
		SCC100	44438	3684.8	44438	3684.8

3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Following channel(s) was (were) selected for the final test as listed below:

LTE Band 43													
Test Item	Channel Bandwidth(MHz)				Modulation		Tested Channel			RB			
	5	10	15	20	QPSK	16QAM	Low	Middle	High	1	50%	100%	
EIRP	V	V	V	V	V	V	V	V	V	V	V	V	V
Occupied Bandwidth	V	V	V	V	V	V	V	V	V	-	-	V	
Conducted Emission	V	V	V	V	V	V	V	V	V	V	-	-	
Band Edge	V	V	V	V	V	-	V	-	V	V	-	V	
Emission Mask	V	V	V	V	V	V	V	V	V	-	-	V	
Radiated Emission	V	-	-	V	V	-	-	V	-	-	-	V	
Power Spectral Density	V	V	V	V	V	V	V	V	V	-	-	V	
Frequency Stability	V	V	V	V	V	-	-	V	-	-	-	V	

Note:

- 1)The mark "V" means that this configuration is chosen for testing.
- 2)The mark "-" means that this configuration is not testing.

CA_43C(3600~3650)												
Test Item	Channel Bandwidth							Modulation		RB		
	20+5	5+20	20+10	10+20	20+15	15+20	20+20	QPSK	16QAM	1	50%	100%
EIRP	V	V	V	V	V	V	V	V	V	V	-	V
Occupied Bandwidth	V	V	V	V	V	V	V	V	-	-	-	V
Conducted Emission	V	-	-	-	-	-	V	V	-	V	V	V
Radiated Emission	V	-	-	-	-	-	V	V	-	-	-	V
Band Edge	-	-	-	-	-	-	V	V	-	-	-	V
Emission Mask	V	-	-	-	-	-	V	V	V	-	-	V
Power Spectral Density	V	-	-	-	-	-	V	V	V	-	-	V

CA_43C(3650~3700)												
Test Item	Channel Bandwidth							Modulation		RB		
	20+5	5+20	20+10	10+20	20+15	15+20	20+20	QPSK	16QAM	1	50%	100%
EIRP	V	V	V	V	V	V	V	V	V	V	-	V
Occupied Bandwidth	V	V	V	V	V	V	V	V	-	-	-	V
Conducted Emission	V	-	-	-	-	-	V	V	-	V	V	V
Radiated Emission	-	-	-	-	-	-	-	-	-	-	-	-
Band Edge	-	-	-	-	-	-	V	V	-	-	-	V
Emission Mask	V	-	-	-	-	-	V	V	V	-	-	V
Power Spectral Density	V	-	-	-	-	-	V	V	V	-	-	V

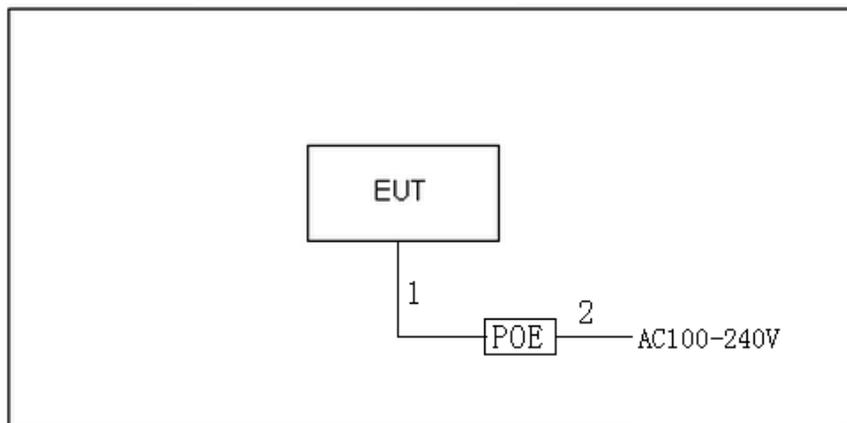
Note:

- 1) The mark "V" means that this configuration is chosen for testing.
- 2) The mark "-" means that this configuration is not testing.
- 3) Please refer to note 2 of page 11 for CA_43C test channel and frequency.

EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Test Voltage
EIRP	24°C, 63%RH	AC 120V/60Hz
Conducted Output Power	25°C, 65%RH	AC 120V/60Hz
Occupied Bandwidth	25°C, 65%RH	AC 120V/60Hz
Conducted Emission	25°C, 65%RH	AC 120V/60Hz
Radiated Emission	25°C, 60%RH	AC 120V/60Hz
Band Edge	25°C, 65%RH	AC 120V/60Hz
Emission Mask	25°C, 65%RH	AC 120V/60Hz
Power Spectral Density	25°C, 65%RH	AC 120V/60Hz
Frequency Stability	25°C, 65%RH	AC 120V/60Hz

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED FOR RADIATED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.8m	RJ45 Cable
2	NO	NO	1.8m	AC Cable

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Base and fixed stations are limited to 25 watts/25 MHz equivalent isotropically radiated power (EIRP), the peak EIRP power density shall not exceed 1 Watt in any one-mega hertz slice of spectrum.

Mobile and portable stations are limited to 1 watt/25 MHz EIRP. The peak EIRP density shall not exceed 40 milli watts in any one-megahertz slice of spectrum.

4.1.2 TEST PROCEDURE

EIRP/ERP:

EIRP= Conducted Power +Antenan gain

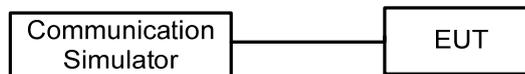
ERP power=EIPR power-2.15dBi.

Conducted Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TESTSETUP LAYOUT

Conducted Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

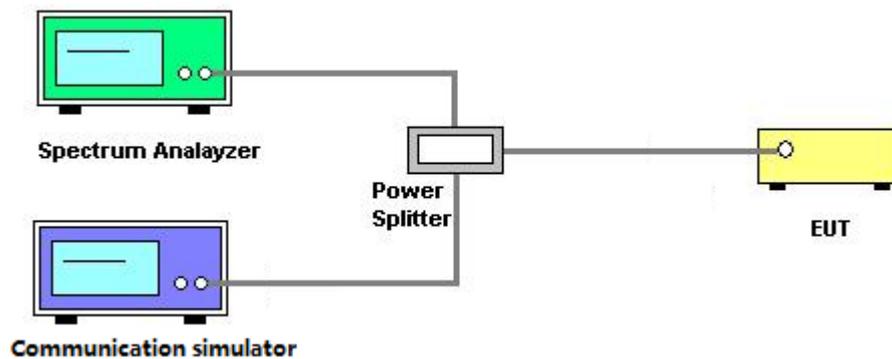
Please refer to the Attachment A for Band 43 and Attachment B for CA_43C mode..

4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the Attachment C for Band 43 and Attachment D for CA_43C mode.

4.3 CONDUCTED EMISSIONS MEASUREMENT

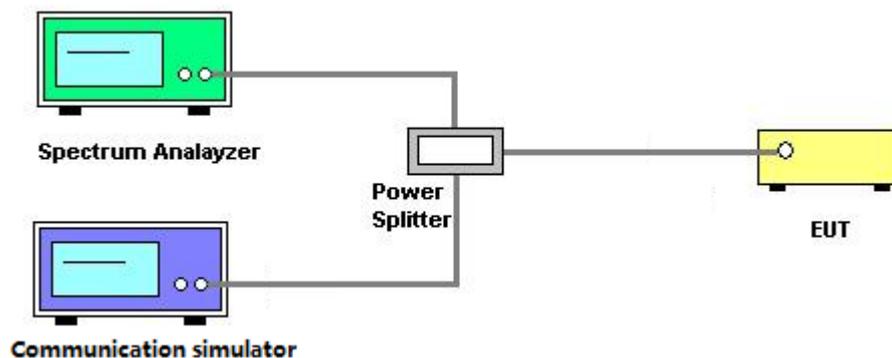
4.3.1 LIMIT

≤ -13 dBm/1 MHz, from 9 kHz to 10_{th} harmonics but outside range from (3650-1) to (3700+1) MHz.

4.3.2 TEST PROCEDURES

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43+10\log(P)$ dB below the transmitter power P(Watts)
 $=P(W)-[43+10\log(P)](dB)$
 $=[30+10\log(P)](dBm)-[43+10\log(P)](dB)$
 $=-13dBm$

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.5 TEST RESULTS

Please refer to the Attachment E for Band 43 and Attachment F for CA_43C mode.

4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

4.4.2 TEST PROCEDURES

1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.4.3 TESTSETUP LAYOUT

This test setup layout is the same as that shown in **section 4.1.3**.

4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS

Please refer to the Attachment G for Band 43 and Attachment H for CA_43C mode.

4.5 BAND EDGE /EMISSION MASK MEASUREMENT

4.5.1 LIMIT

Band edge limit ≤ -13 dBm, in 1 MHz range (integrated with RBW $\geq 1\% \cdot \text{EBW}$) outside 3650-3700 MHz.

Mask limit :

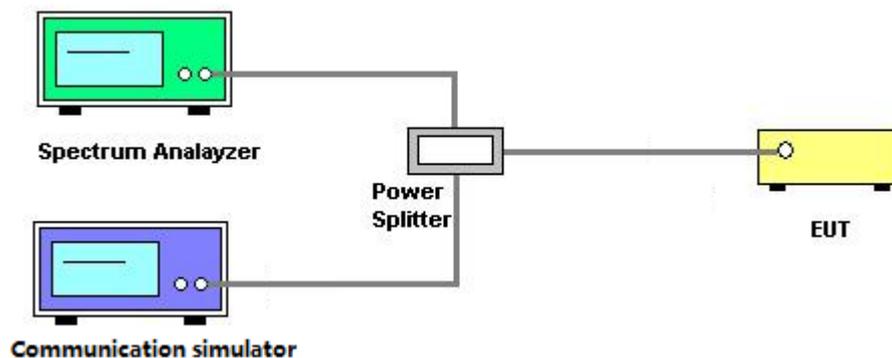
The power of any emission must be attenuated below the unmodulated carrier power (P) as follows.

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

4.5.2 TEST PROCEDURES

1. All measurements were done at low and high operational frequency range.
2. Set RBW=1% of 26dBc bandwidth, VBW=3 X RBW, detector=RMS, Sweep time = Auto.
3. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.5 TEST RESULTS

Please refer to the Attachment I for Band 43 and Attachment J for CA_43C mode of band edge. Please refer to the Attachment K for Band 43 and Attachment L for CA_43C mode of emission mask.

4.6 POWER SPECTRAL DENSITY MEASUREMENT

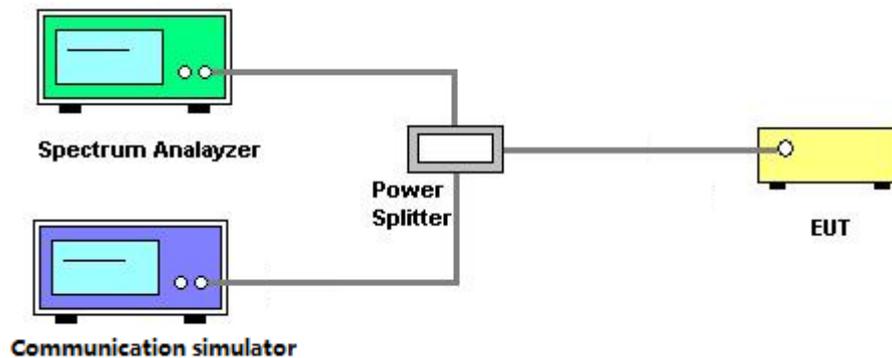
4.6.1 LIMIT

Base Station / Fixed station are limited to 1 watt.
 Mobile / Portable station are limited to 40mWatts.

4.6.2 TEST PROCEDURE

1. The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
2. Record the test plot.

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.5 TEST RESULTS

Please refer to the Attachment M for Band 43 and Attachment N for CA_43C mode.

4.7 FREQUENCY STABILITY MEASUREMENT

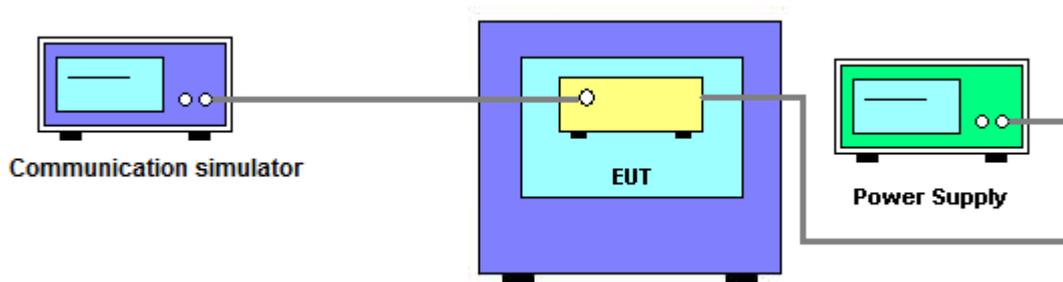
4.7.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation

4.7.5 TEST RESULTS

Please refer to the Attachment O.

5. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test receiver	R&S	ESU26	100387	Jul. 21, 2017
2	LOOP Antennas(9kHz-30M Hz)	R&S	HFH2-Z2	100263	Apr. 28, 2018
3	Spectrum analyzer	R&S	FSU3	200474	May 24, 2017
4	Spectrum analyzer	R&S	FSU43	100144	Jun. 02, 2017
5	Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	VULB 9163	9163-521	Apr. 07, 2018
6	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100304	Apr. 28, 2018
7	Pyramidal Horn Antenna(18GHz-26.5 GHz)	ETS-Lindgren	Sep-60	5140299	Jul. 14, 2017
8	Radio Communication Tester	Anritsu	MT8821C	6201588584	May 02, 2018

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 26, 2018
2	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S +	331000910-1	Feb. 25, 2018
4	Radio Communication Tester	Anritsu	MT8821C	6201588584	May 02, 2018
5	Cable	N/A	RG316(0.3m)	N/A	Jul. 06, 2017
6	Cable	N/A	RG316(0.3m)	N/A	Jul. 06, 2017

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2017
2	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S +	331000910-1	Feb. 25, 2018
3	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018
4	Const Temp,& Humidity Chamber	Giant Force	ITH-225-20-S	IAB0309-001	Sep. 04, 2017
5	Cable	N/A	RG316(0.3m)	N/A	Jul. 06, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

ATTACHMENT A - OUTPUT POWER (BAND 43)

Conducted Power_Band 43						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44115 CH	44340 CH	44565CH
				3652.5 MHz	3675 MHz	3697.5 MHz
5M	QPSK	1	0	23.09	22.93	23.39
		1	12	23.18	23.14	23.40
		1	24	22.84	22.78	23.00
		12	0	22.51	22.46	22.72
		12	6	22.51	22.51	22.78
		12	13	22.43	22.40	22.62
		25	0	22.36	22.38	22.60
	16QAM	1	0	22.79	22.38	22.72
		1	12	22.86	22.55	22.79
		1	24	22.49	22.19	22.40
		12	0	21.98	21.83	22.20
		12	6	21.98	21.90	22.22
		12	13	21.90	21.79	22.05
		25	0	21.81	21.74	21.91
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44140 CH	44340 CH	44540 CH
				3655 MHz	3675 MHz	3695 MHz
10M	QPSK	1	0	23.01	22.89	23.23
		1	24	23.18	23.16	23.53
		1	49	22.75	22.85	23.07
		25	0	22.42	22.34	22.63
		25	12	22.45	22.38	22.69
		25	25	22.29	22.30	22.56
		50	0	22.36	22.32	22.61
	16QAM	1	0	22.48	22.16	22.88
		1	24	22.65	22.41	23.16
		1	49	22.24	22.11	22.71
		25	0	21.84	21.73	22.03
		25	12	21.85	21.78	22.08
		25	25	21.70	21.70	21.96
		50	0	21.70	21.74	22.03

Note: The Conducted Power=measured value+cabel loss.

Conducted Power_Band 43						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44165 CH	44340 CH	44515 CH
				3657.5 MHz	3675 MHz	3692.5 MHz
15M	QPSK	1	0	22.76	22.70	22.91
		1	37	23.10	23.16	23.41
		1	74	22.52	22.78	22.91
		36	0	22.35	22.22	22.49
		36	19	22.37	22.38	22.62
		36	39	22.15	22.29	22.50
		75	0	22.23	22.25	22.50
	16QAM	1	0	22.40	21.91	22.34
		1	37	22.76	22.38	22.76
		1	74	22.19	21.97	22.25
		36	0	21.78	21.66	21.89
		36	19	21.80	21.82	22.00
		36	39	21.64	21.73	21.88
		75	0	21.66	21.66	21.93
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44190 CH	44340 CH	44490 CH
				3660 MHz	3675 MHz	3690 MHz
20M	QPSK	1	0	22.99	22.86	23.16
		1	50	23.00	23.07	23.41
		1	99	22.71	22.94	23.15
		50	0	22.32	22.31	22.45
		50	25	22.25	22.37	22.53
		50	50	22.15	22.35	22.53
		100	0	22.32	22.33	22.49
	16QAM	1	0	22.68	22.48	22.81
		1	50	22.70	22.68	23.01
		1	99	22.42	22.53	22.75
		50	0	21.80	21.70	21.89
		50	25	21.73	21.75	21.96
		50	50	21.61	21.73	21.97
		100	0	21.73	21.74	21.96

Note: The Conducted Power=measured value+cabel loss.

EIRP Power_Band 43						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44115 CH	44340 CH	44565CH
				3652.5 MHz	3675 MHz	3697.5 MHz
5M	QPSK	1	0	36.09	35.93	36.39
		1	12	36.18	36.14	36.40
		1	24	35.84	35.78	36.00
		12	0	35.51	35.46	35.72
		12	6	35.51	35.51	35.78
		12	13	35.43	35.40	35.62
		25	0	35.36	35.38	35.60
	16QAM	1	0	35.79	35.38	35.72
		1	12	35.86	35.55	35.79
		1	24	35.49	35.19	35.40
		12	0	34.98	34.83	35.20
		12	6	34.98	34.90	35.22
		12	13	34.90	34.79	35.05
		25	0	34.81	34.74	34.91
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44140 CH	44340 CH	44540 CH
				3655 MHz	3675 MHz	3695 MHz
10M	QPSK	1	0	36.01	35.89	36.23
		1	24	36.18	36.16	36.53
		1	49	35.75	35.85	36.07
		25	0	35.42	35.34	35.63
		25	12	35.45	35.38	35.69
		25	25	35.29	35.30	35.56
		50	0	35.36	35.32	35.61
	16QAM	1	0	35.48	35.16	35.88
		1	24	35.65	35.41	36.16
		1	49	35.24	35.11	35.71
		25	0	34.84	34.73	35.03
		25	12	34.85	34.78	35.08
		25	25	34.70	34.70	34.96
		50	0	34.70	34.74	35.03

EIRP Power_Band 43

Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44165 CH	44340 CH	44515 CH
				3657.5 MHz	3675 MHz	3692.5 MHz
15M	QPSK	1	0	35.76	35.70	35.91
		1	37	36.10	36.16	36.41
		1	74	35.52	35.78	35.91
		36	0	35.35	35.22	35.49
		36	19	35.37	35.38	35.62
		36	39	35.15	35.29	35.50
		75	0	35.23	35.25	35.50
	16QAM	1	0	35.40	34.91	35.34
		1	37	35.76	35.38	35.76
		1	74	35.19	34.97	35.25
		36	0	34.78	34.66	34.89
		36	19	34.80	34.82	35.00
		36	39	34.64	34.73	34.88
		75	0	34.66	34.66	34.93
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				44190 CH	44340 CH	44490 CH
				3660 MHz	3675 MHz	3690 MHz
20M	QPSK	1	0	35.99	35.86	36.16
		1	50	36.00	36.07	36.41
		1	99	35.71	35.94	36.15
		50	0	35.32	35.31	35.45
		50	25	35.25	35.37	35.53
		50	50	35.15	35.35	35.53
		100	0	35.32	35.33	35.49
	16QAM	1	0	35.68	35.48	35.81
		1	50	35.70	35.68	36.01
		1	99	35.42	35.53	35.75
		50	0	34.80	34.70	34.89
		50	25	34.73	34.75	34.96
		50	50	34.61	34.73	34.97
		100	0	34.73	34.74	34.96

ATTACHMENT B - OUTPUT POWER (CA_43C)

Conducted Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
5M+20M	3628.3 & 3640	1	24	1	0	21.58	21.63
		1	12	1	49	21.62	21.82
		25	0	100	0	21.43	21.32
	3678.3 & 3690	1	24	1	0	21.44	21.41
		1	12	1	49	21.74	21.71
		25	0	100	0	21.66	21.64
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+5M	3610 & 3621.7	1	0	1	0	21.39	21.77
		1	0	1	24	21.38	21.76
		1	0	25	0	21.35	21.74
		1	99	1	24	21.59	21.85
		1	99	25	0	21.56	21.9
		100	0	1	24	21.62	21.41
		100	0	25	0	21.57	21.42
		1	99	1	0	21.58	22.00
		100	0	1	0	21.62	21.42
		1	0	0	0	21.51	21.45
		8	0	0	0	21.5	21.42
		3678.3 & 3690	1	0	1	0	20.29
	1		0	1	24	20.29	20.72
	1		0	25	0	20.26	21.02
	1		99	1	24	21.22	21.35
	1		99	25	0	21.23	21.48
	100		0	1	24	21.05	20.67
	100		0	25	0	21.7	21.68
	1		99	1	0	21.22	21.88
	100		0	1	0	21.05	20.71
	1		0	0	0	20.08	20.89
	8		0	0	0	20.32	20.56

Note: The Conducted Power=measured value+cabel loss.

Conducted Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
10M+20M	3625.6 & 3675.6	1	49	1	0	21.29	21.57
		1	24	1	49	21.52	21.65
		50	0	100	0	21.38	21.32
	3610 & 3660	1	49	1	0	21.36	21.69
		1	24	1	49	21.67	21.78
		50	0	100	0	21.43	21.02
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+10M	3610 & 3624.4	1	99	1	0	21.39	21.81
		100	0	50	0	21.5	21.45
		1	0	0	0	20.8	21.72
		12	0	0	0	21	21.35
	3660 & 3674.4	1	99	1	0	21.26	21.35
		100	0	50	0	21.14	21.01
		1	0	0	0	20.33	20.13
		12	0	0	0	20.13	20.05

Conducted Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
15M+20M	3622.9 & 3640	1	74	1	0	21.32	21.5
		1	36	1	49	21.49	21.7
		75	0	100	0	21.3	21.29
	3672.9 & 3690	1	74	1	0	21.11	21.2
		1	36	1	49	21.26	21.3
		75	0	100	0	21.09	21
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+15M	3610 & 3627.1	1	99	1	0	21.41	21.38
		100	0	75	0	21.75	21.4
	3660 & 3677.1	1	99	1	0	22.11	22
		100	0	75	0	21.71	21.02

Note: The Conducted Power=measured value+cabel loss.

Conducted Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+20M	3610 & 3629.8	1	0	1	0	22.01	22.82
		1	0	1	99	22	22.86
		1	0	100	0	21.97	22.78
		1	49	1	49	22.43	23.74
		1	99	1	99	22.32	23.77
		1	99	100	0	22.3	23.76
		100	0	1	99	22.25	23.25
		100	0	100	0	22.26	23.23
		1	99	1	0	22.29	23.75
		100	0	1	0	22.24	23.24
		1	0	0	0	21.78	22.8
		18	0	0	0	21.94	22.54
	3665 & 3684.8	1	0	1	0	20.29	20.63
		1	0	1	99	20.3	20.61
		1	0	100	0	20.23	20.6
		1	49	1	49	21.26	20.3
		1	99	1	99	21.3	21.18
		1	99	100	0	21.35	21.17
		100	0	1	99	21.16	20.57
		100	0	100	0	21.14	20.57
		1	99	1	0	21.3	21.17
		100	0	1	0	21.14	20.56
		1	0	0	0	20.09	20.61
		18	0	0	0	20.52	20.33

EIRP Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
5M+20M	3628.3 & 3640	1	24	1	0	34.58	34.63
		1	12	1	49	34.62	34.82
		25	0	100	0	34.43	34.32
	3678.3 & 3690	1	24	1	0	34.44	34.41
		1	12	1	49	34.74	34.71
		25	0	100	0	34.66	34.64
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+5M	3610 & 3621.7	1	0	1	0	34.39	34.77
		1	0	1	24	34.38	34.76
		1	0	25	0	34.35	34.74
		1	99	1	24	34.59	34.85
		1	99	25	0	34.56	34.90
		100	0	1	24	34.62	34.41
		100	0	25	0	34.57	34.42
		1	99	1	0	34.58	35.00
		100	0	1	0	34.62	34.42
		1	0	0	0	34.51	34.45
	8	0	0	0	34.50	34.42	
	3678.3 & 3690	1	0	1	0	33.29	33.72
		1	0	1	24	33.29	33.72
		1	0	25	0	33.26	34.02
		1	99	1	24	34.22	34.35
		1	99	25	0	34.23	34.48
		100	0	1	24	34.05	33.67
		100	0	25	0	34.70	34.68
		1	99	1	0	34.22	34.88
		100	0	1	0	34.05	33.71
1		0	0	0	33.08	33.89	
8	0	0	0	33.32	33.56		

Note: The Conducted Power=measured value+cabel loss.

EIRP Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
10M+20M	3625.6 & 3675.6	1	49	1	0	34.29	34.57
		1	24	1	49	34.52	34.65
		50	0	100	0	34.38	34.32
	3610 & 3660	1	49	1	0	34.36	34.69
		1	24	1	49	34.67	34.78
		50	0	100	0	34.43	34.02
LTE Band / BW	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+10M	3610 & 3624.4	1	99	1	0	34.39	34.81
		100	0	50	0	34.50	34.45
		1	0	0	0	33.80	34.72
		12	0	0	0	34.00	34.35
	3660 & 3674.4	1	99	1	0	34.26	34.35
		100	0	50	0	34.14	34.01
		1	0	0	0	33.33	33.13
		12	0	0	0	33.13	33.05

EIRP Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
15M+20M	3622.9 & 3640	1	74	1	0	34.32	34.50
		1	36	1	49	34.49	34.70
		75	0	100	0	34.30	34.29
	3672.9 & 3690	1	74	1	0	34.11	34.20
		1	36	1	49	34.26	34.30
		75	0	100	0	34.09	34.00
LTE Band / BW	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+15M	3610 & 3627.1	1	99	1	0	34.41	34.38
		100	0	75	0	34.75	34.40
	3660 & 3677.1	1	99	1	0	35.11	35.00
		100	0	75	0	34.71	34.02

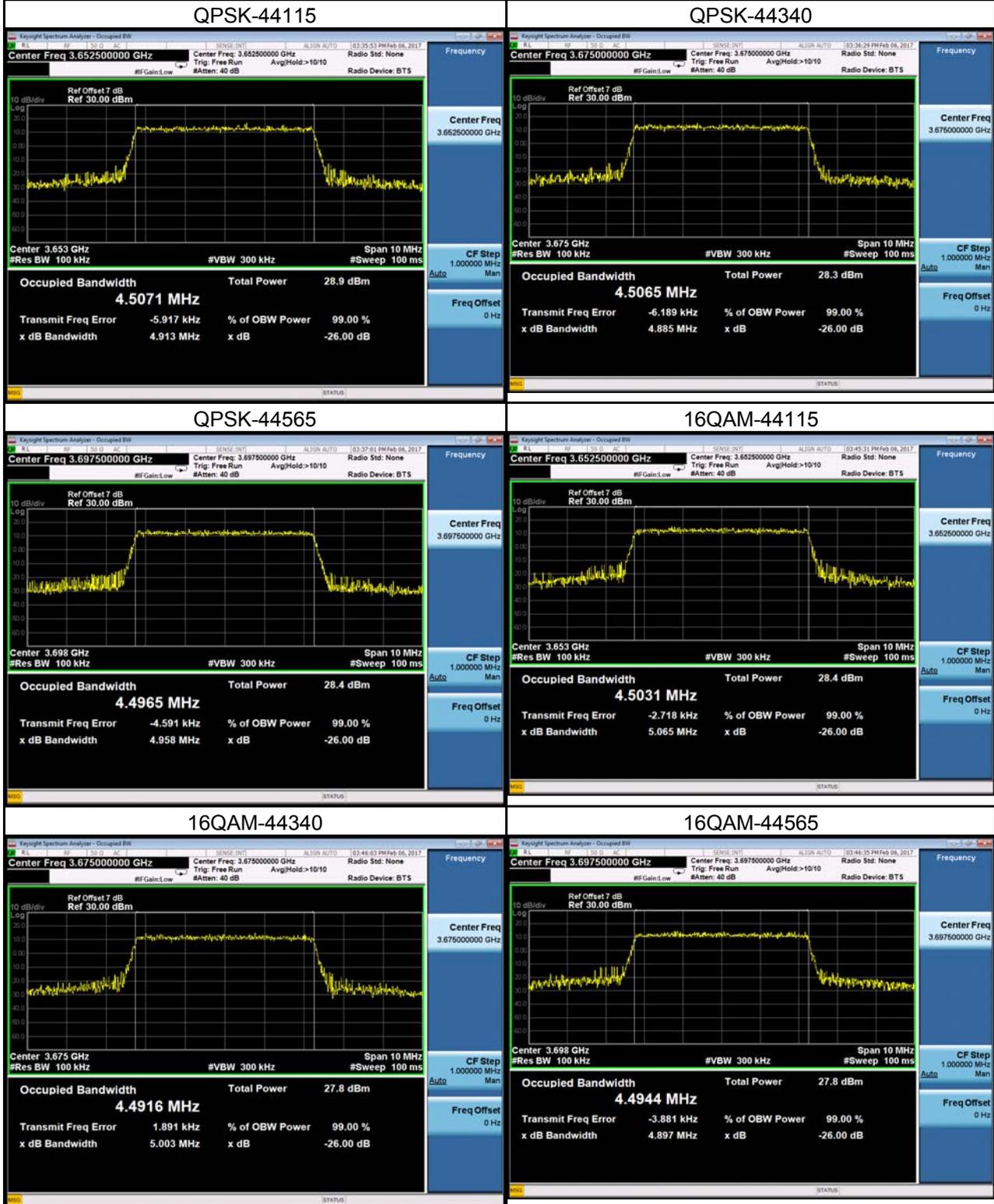
Note: The Conducted Power=measured value+cabel loss.

EIRP Power_CA_43C							
Bandwith	Frequency (MHz)	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	QPSK	16QAM
20M+20M	3610 & 3629.8	1	0	1	0	35.01	35.82
		1	0	1	99	35.00	35.86
		1	0	100	0	34.97	35.78
		1	49	1	49	35.43	36.74
		1	99	1	99	35.32	36.77
		1	99	100	0	35.30	36.76
		100	0	1	99	35.25	36.25
		100	0	100	0	35.26	36.23
		1	99	1	0	35.29	36.75
		100	0	1	0	35.24	36.24
		1	0	0	0	34.78	35.80
		18	0	0	0	34.94	35.54
	3665 & 3684.8	1	0	1	0	33.29	33.63
		1	0	1	99	33.30	33.61
		1	0	100	0	33.23	33.60
		1	49	1	49	34.26	33.30
		1	99	1	99	34.30	34.18
		1	99	100	0	34.35	34.17
		100	0	1	99	34.16	33.57
		100	0	100	0	34.14	33.57
		1	99	1	0	34.30	34.17
		100	0	1	0	34.14	33.56
		1	0	0	0	33.09	33.61
		18	0	0	0	33.52	33.33

ATTACHMENT C - OCCUPIED BANDWIDTH (BAND 43)

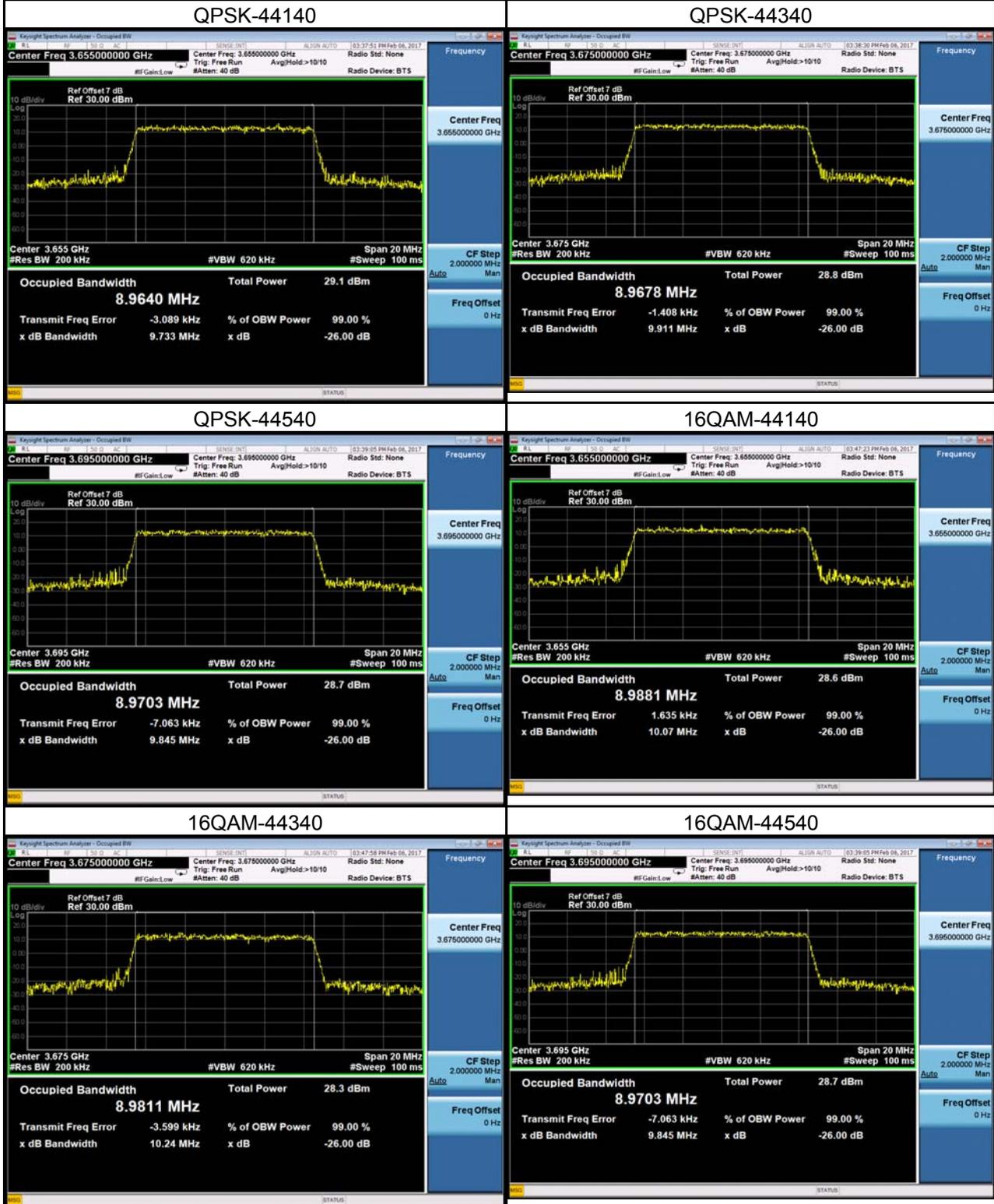
LTE Band 43_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
44115	3652.5	4.5071	44115	3652.5	4.5031
44340	3675	4.5065	44340	3675	4.4916
44565	3697.5	4.4965	44565	3697.5	4.4944
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
44115	3652.5	4.913	44115	3652.5	5.065
44340	3675	4.885	44340	3675	5.003
44565	3697.5	4.958	44565	3697.5	4.897

Spectrum Plot



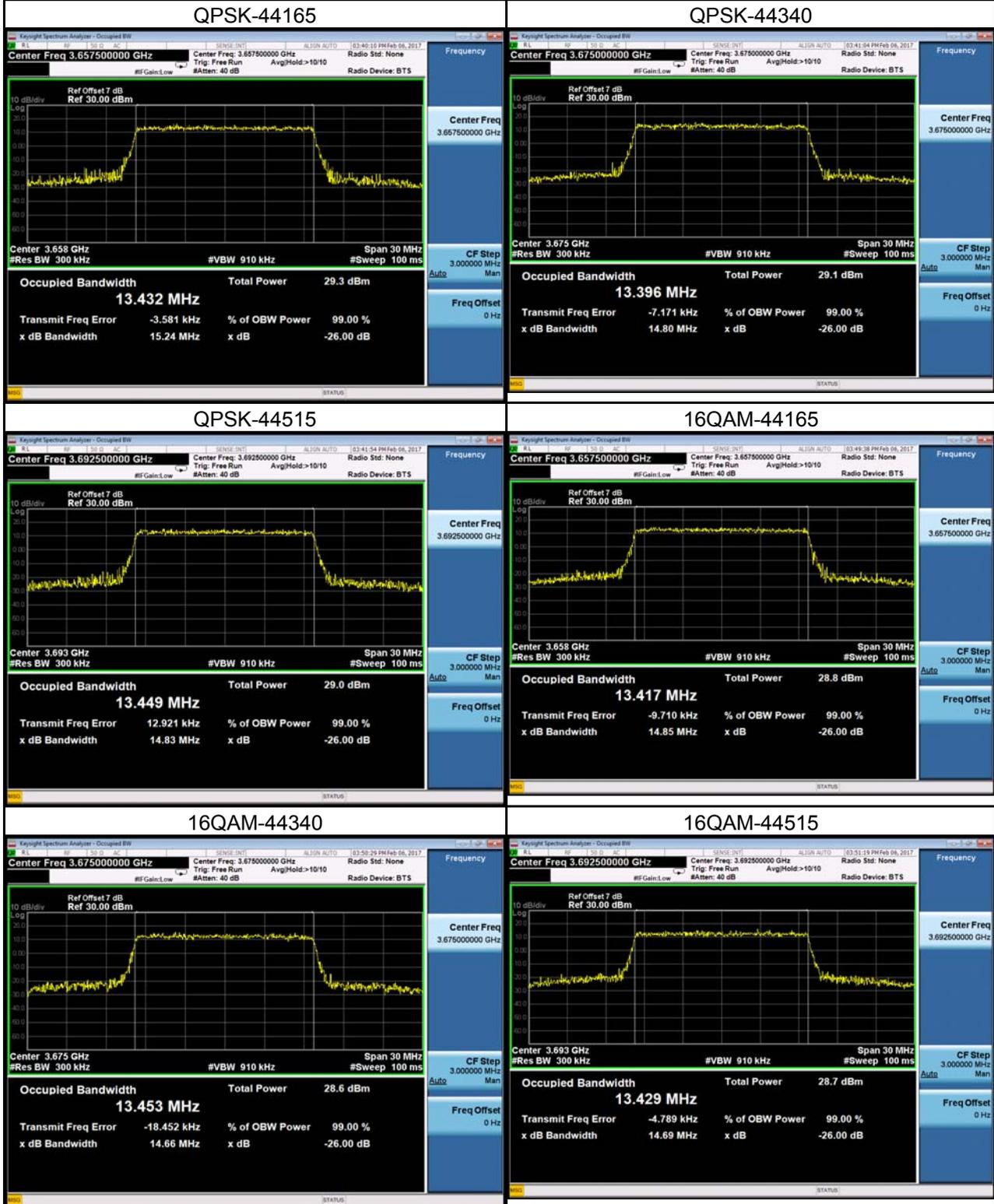
LTE Band 43_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
44140	3655	8.9640	44140	3655	8.9881
44340	3675	8.9678	44340	3675	8.9811
44540	3695	8.9703	44540	3695	8.9463
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
44140	3655	9.733	44140	3655	10.07
44340	3675	9.911	44340	3675	10.24
44540	3695	9.845	44540	3695	9.798

Spectrum Plot



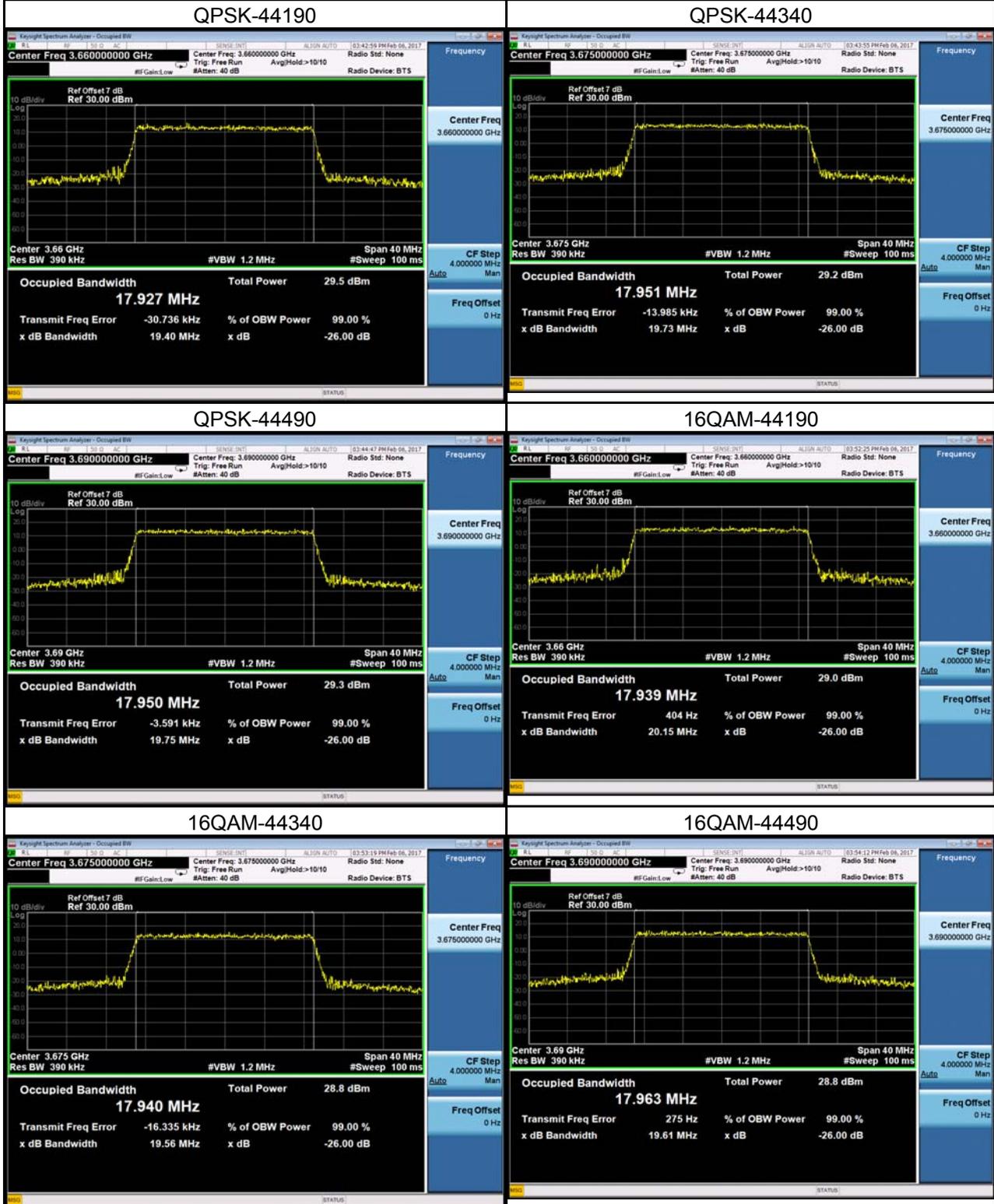
LTE Band 43_15M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
44165	3657.5	13.432	44165	3657.5	13.417
44340	3675	13.396	44340	3675	13.453
44515	3692.5	13.449	44515	3692.5	13.429
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
44165	3657.5	15.24	44165	3657.5	14.85
44340	3675	14.80	44340	3675	14.66
44515	3692.5	14.83	44515	3692.5	14.69

Spectrum Plot



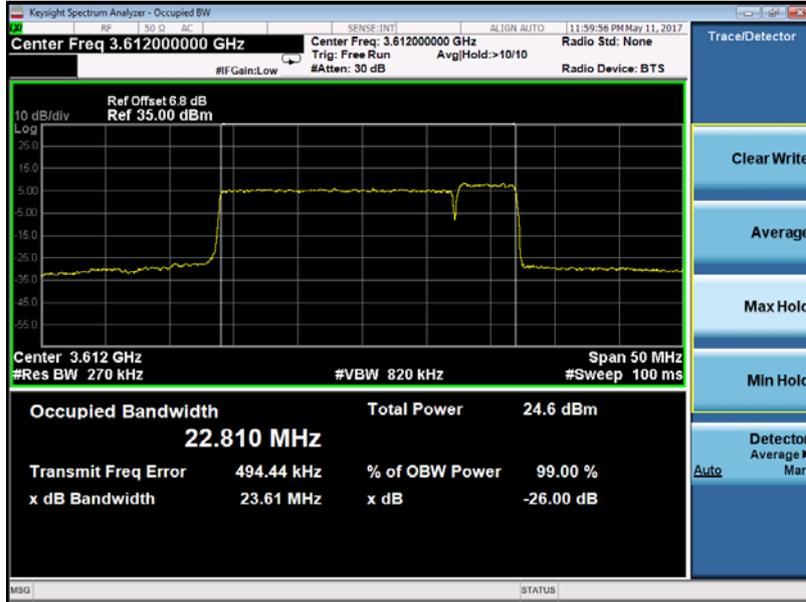
LTE Band 43_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
44190	3660	17.927	44190	3660	17.939
44340	3675	17.951	44340	3675	17.940
44490	3690	17.950	44490	3690	17.963
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
44190	3660	19.40	44190	3660	20.15
44340	3675	19.73	44340	3675	19.56
44490	3690	19.75	44490	3690	19.61

Spectrum Plot

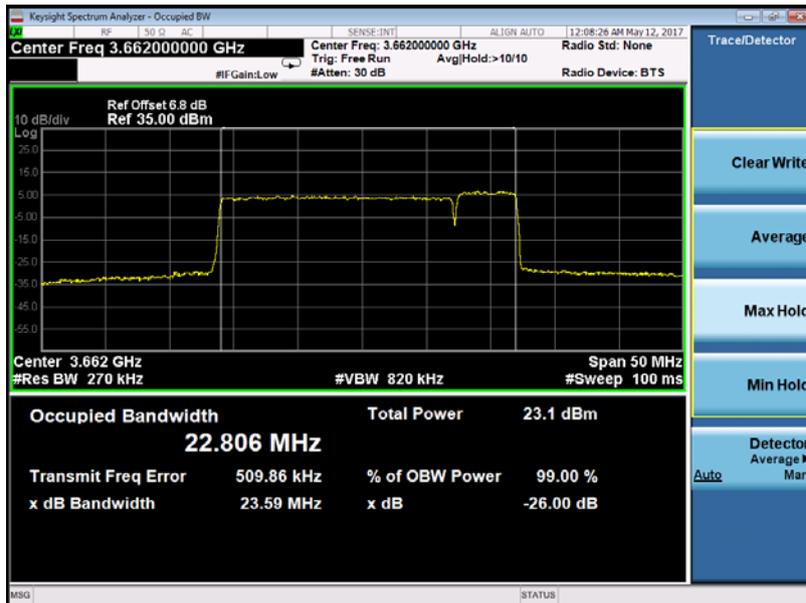


ATTACHMENT D - OCCUPIED BANDWIDTH (CA_43C)

LTE Band 43_20M+5M		
QPSK		
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43690+43870	22.810	23.61



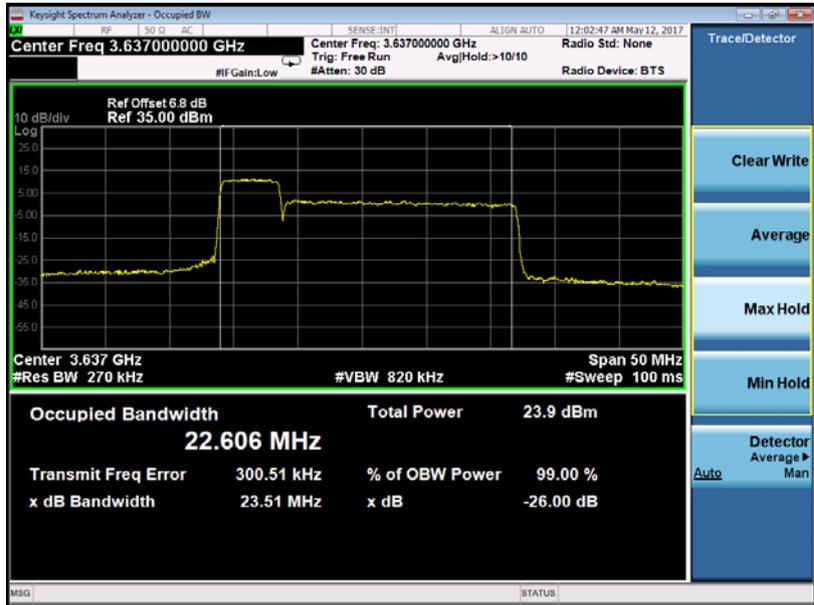
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44190+44307	22.806	23.59



LTE Band 43_5M+20M

QPSK

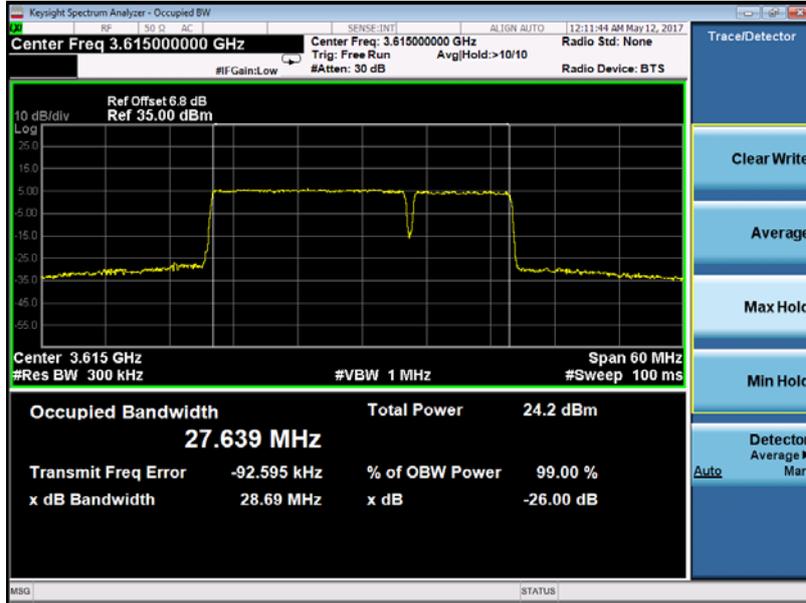
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43873+43990	22.606	23.51



Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44373+44490	22.701	23.50



LTE Band 43_20M+10M		
QPSK		
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43690+43834	27.639	28.69



Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44190+44344	27.661	28.65



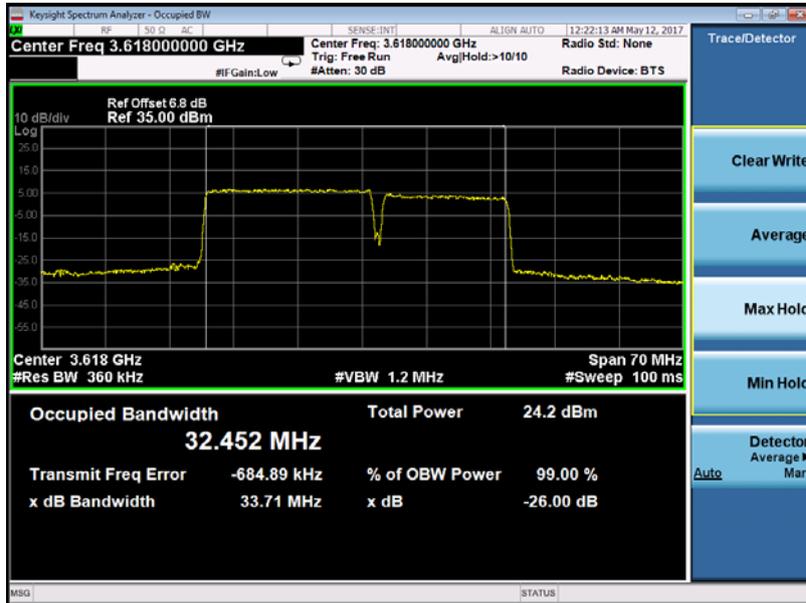
LTE Band 43_10M+20M		
QPSK		
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43846+43990	27.505	28.57



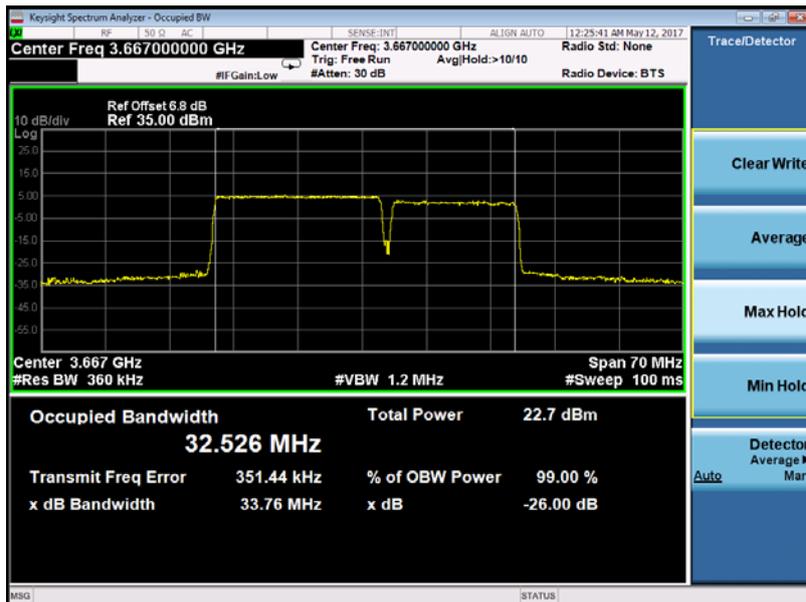
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44346+44490	27.611	28.56



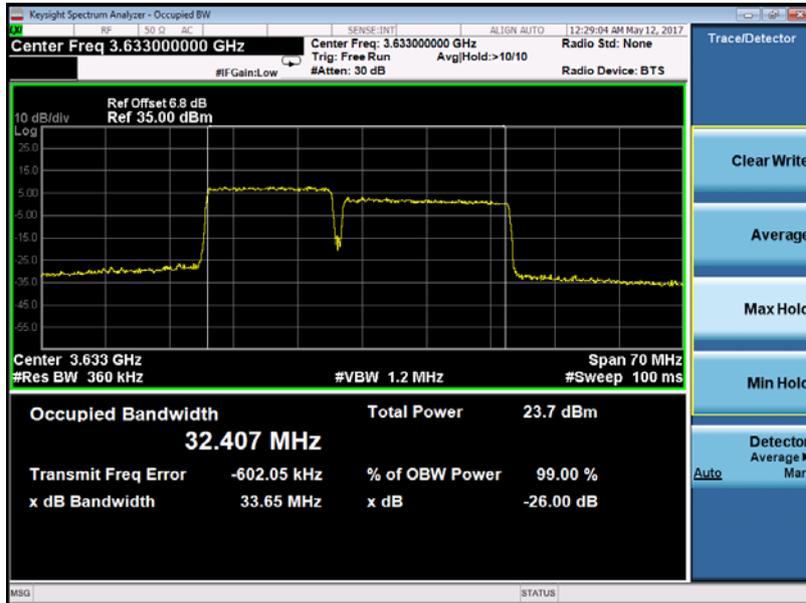
LTE Band 43_20M+15M		
QPSK		
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43690+43861	32.452	33.71



Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44190+44361	32.526	33.76



LTE Band 43_15M+20M		
QPSK		
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43819+43990	32.407	33.65



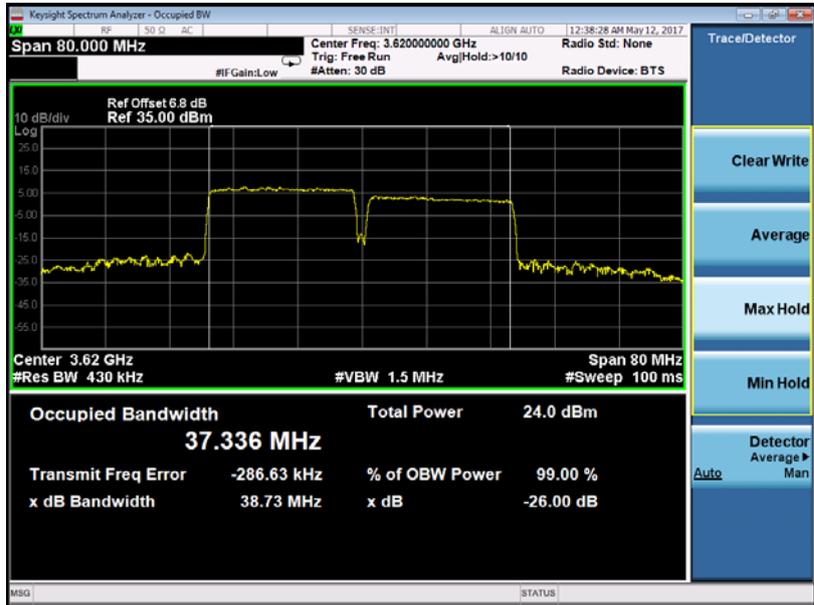
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44319+44490	32.504	33.71



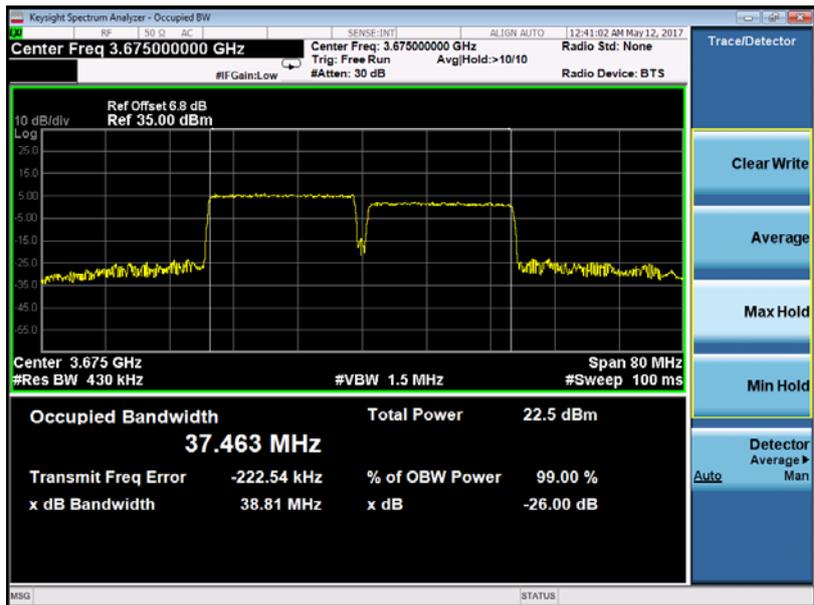
LTE Band 43_20M+20M

QPSK

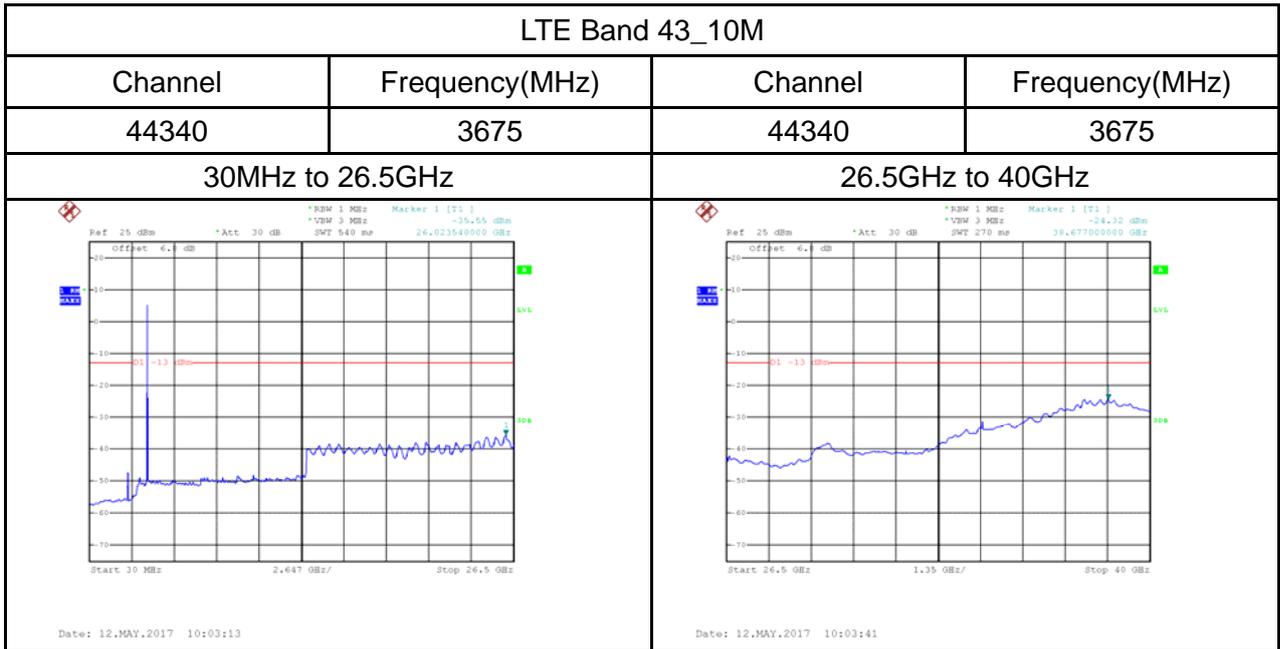
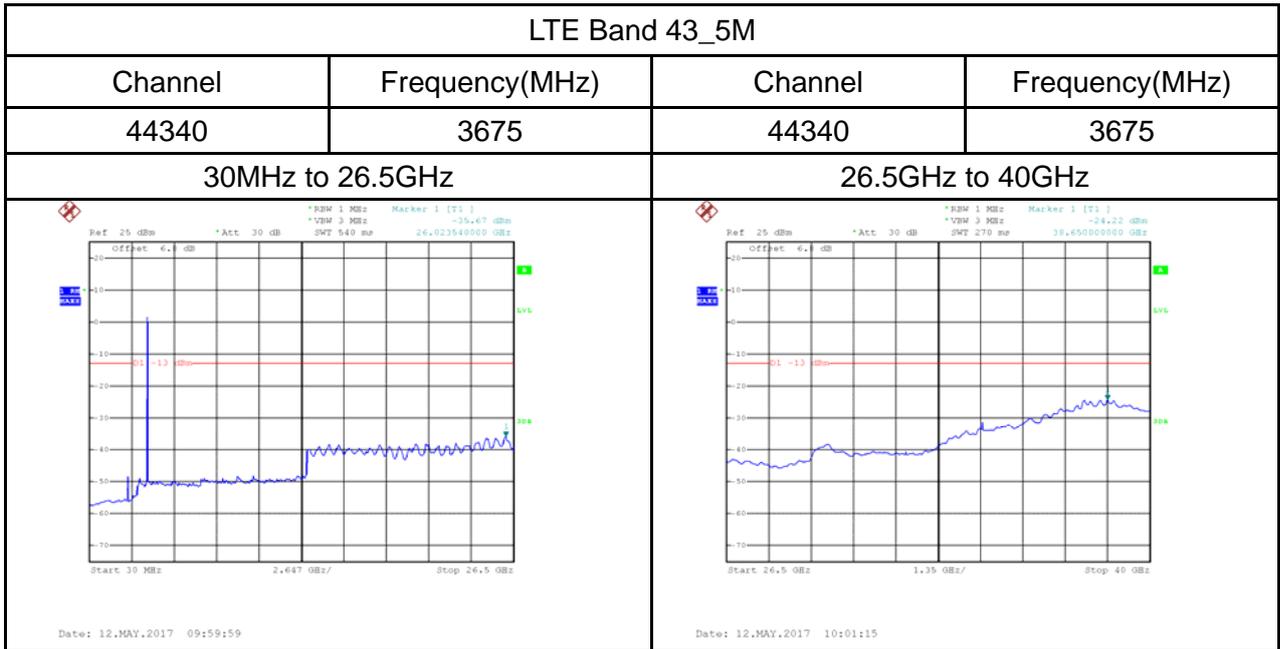
Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
43690+43888	37.336	38.73

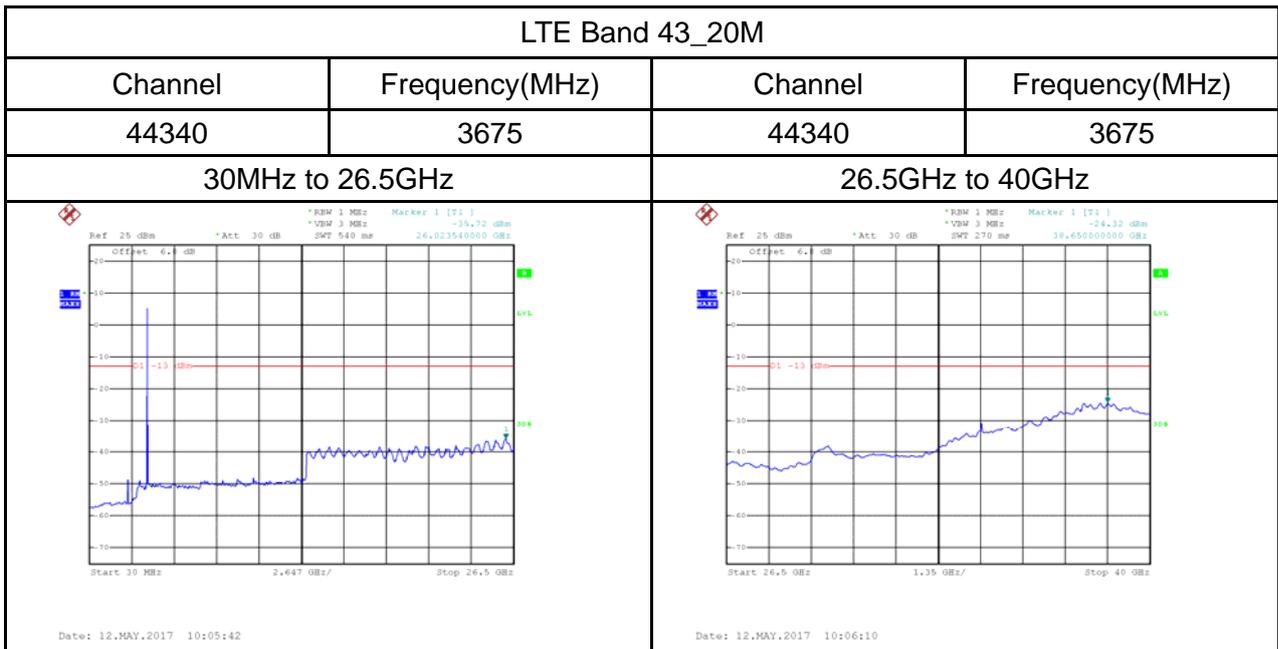
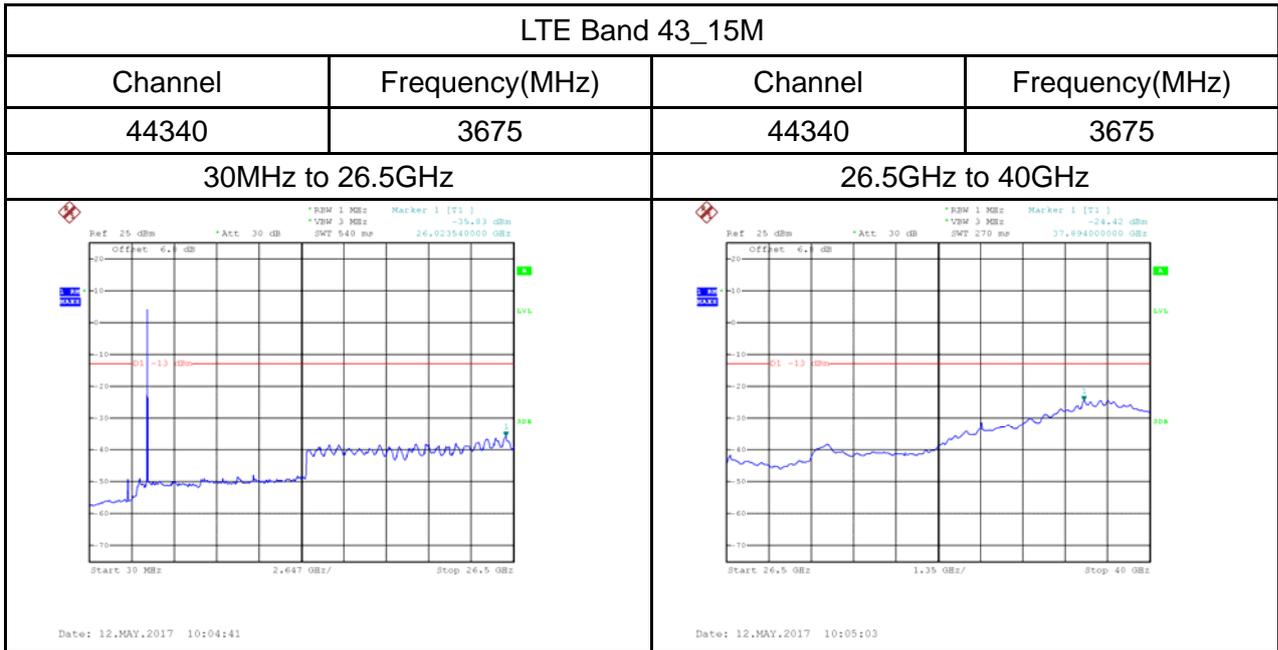


Channel	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
44240+44438	37.463	38.81



ATTACHMENT E - CONDUCTED EMISSIONS (BAND 43)





ATTACHMENT F - CONDUCTED EMISSIONS (CA_43C)

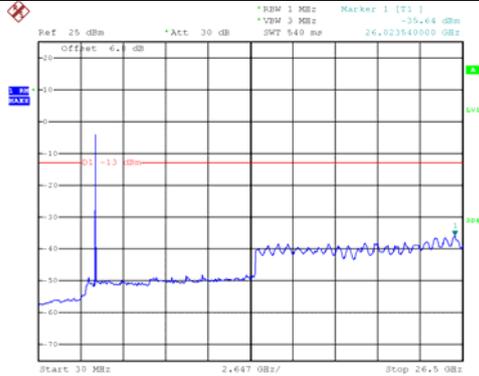
LTE Band 43_20M+5M

QPSK/ Channel: 43690+43870

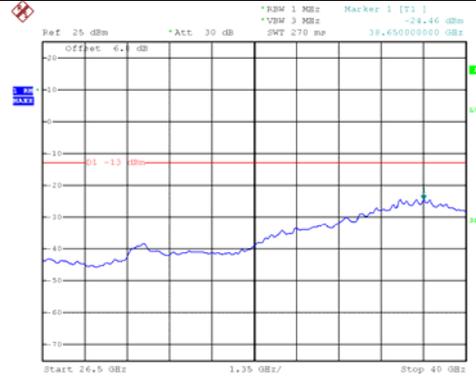
30MHz to 26.5GHz

26.5GHz to 40GHz

1RB0 & 0RB0

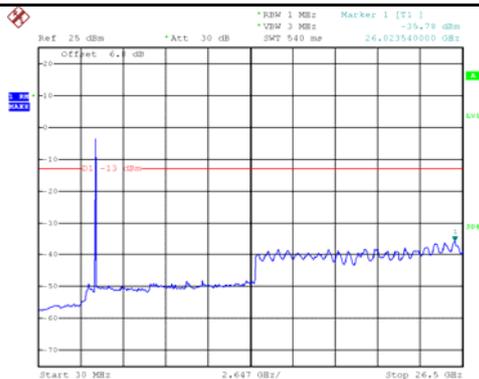


Date: 5.MAY.2017 15:46:02

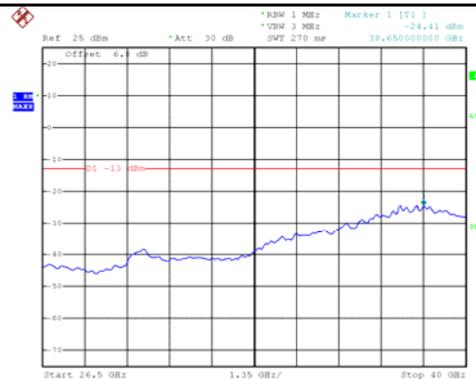


Date: 5.MAY.2017 15:53:19

1RB0 & 1RB49

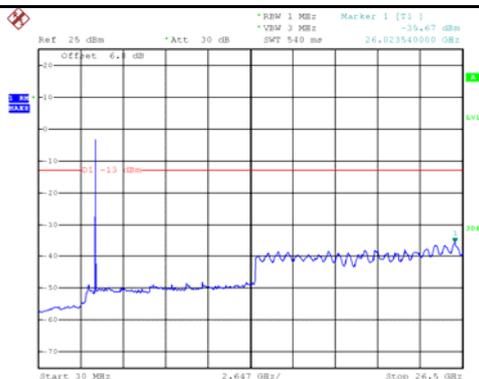


Date: 5.MAY.2017 15:49:26

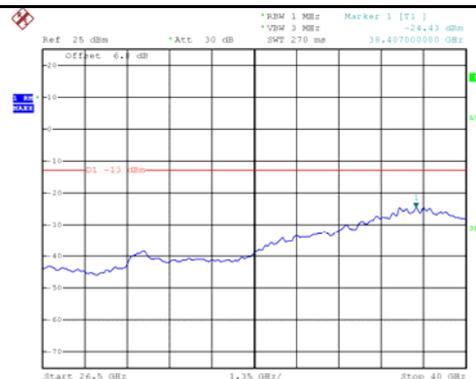


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1RB99 & 0RB0

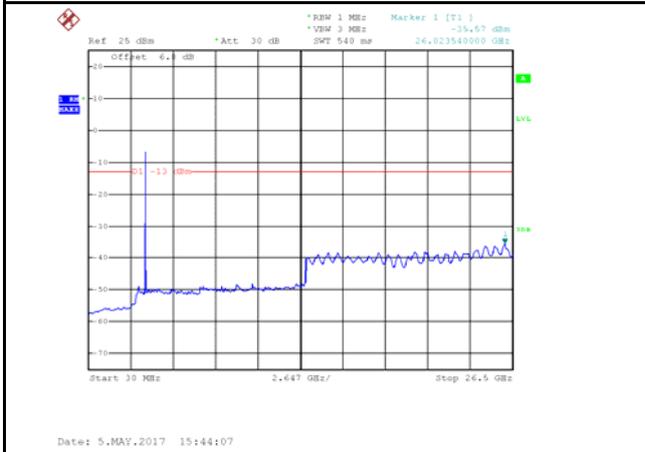


Date: 5.MAY.2017 15:46:55

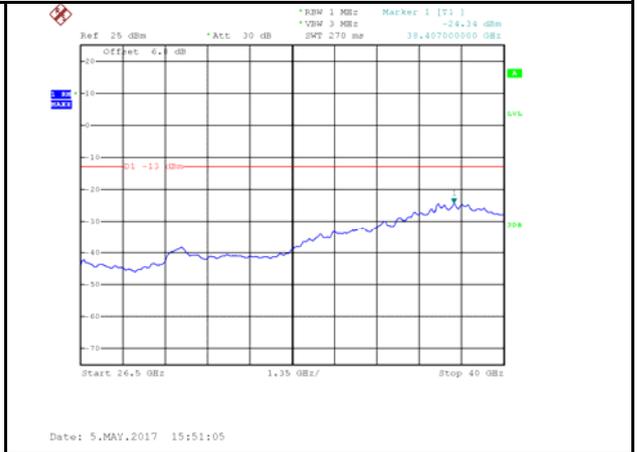
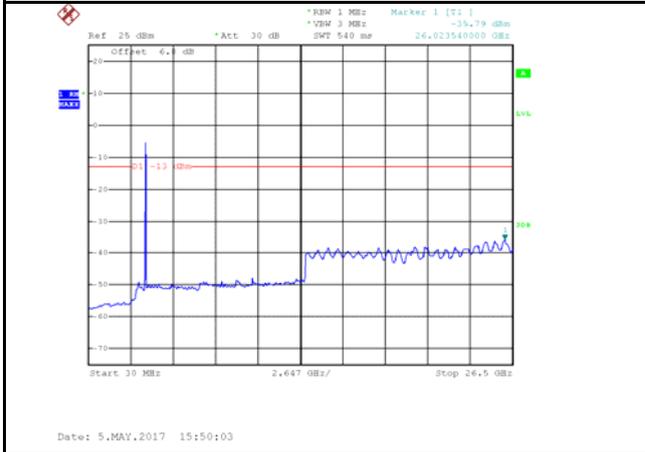


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50RB0 & 0RB0



100RB0 & 50RB0



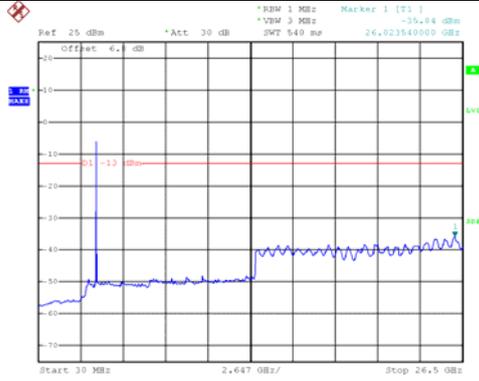
LTE Band 43_20M+5M

QPSK/Channel: 44190+44307

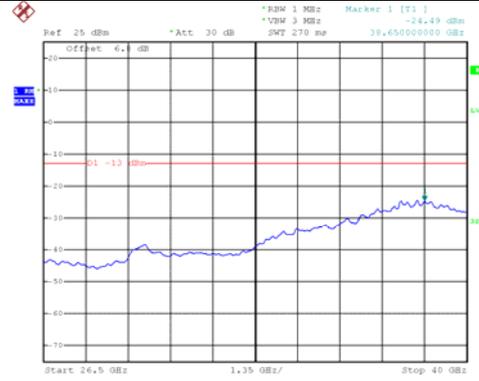
30MHz to 26.5GHz

26.5GHz to 40GHz

1RB0 & 0RB0

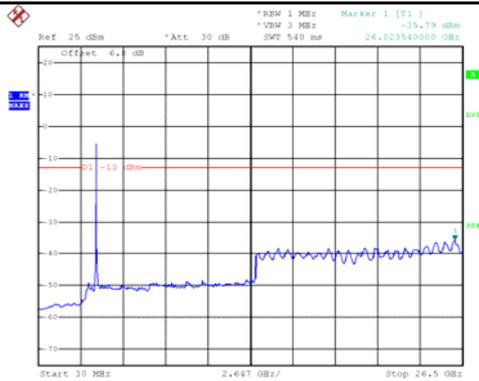


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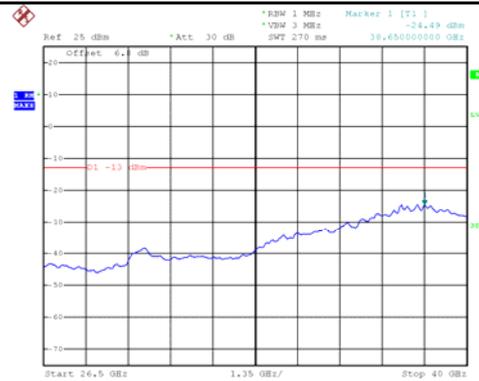


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1RB0 offset & 1RB49

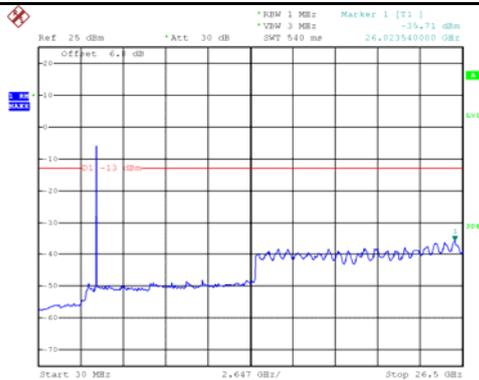


Date: 5.MAY.2017 16:05:31

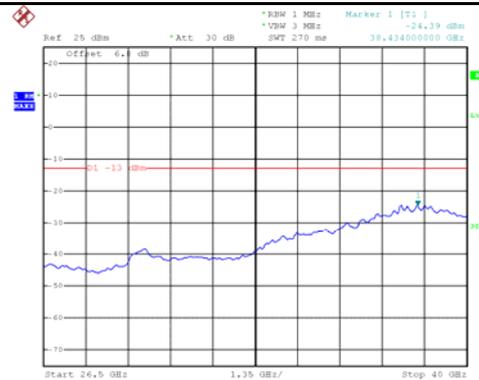


Date: 5.MAY.2017 16:05:53

1RB/99 & 0RB0

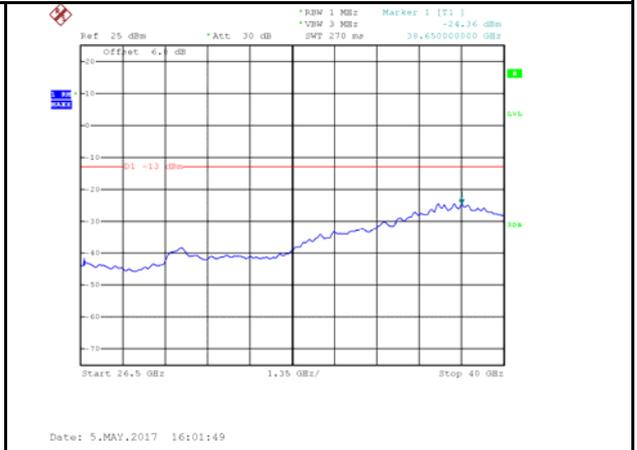
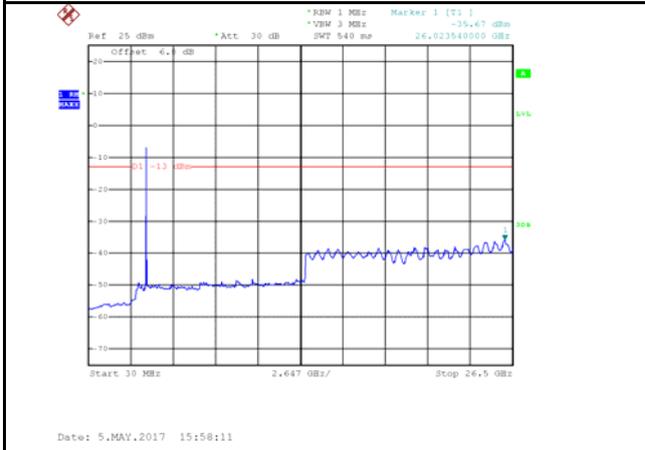


Date: 5.MAY.2017 16:04:27

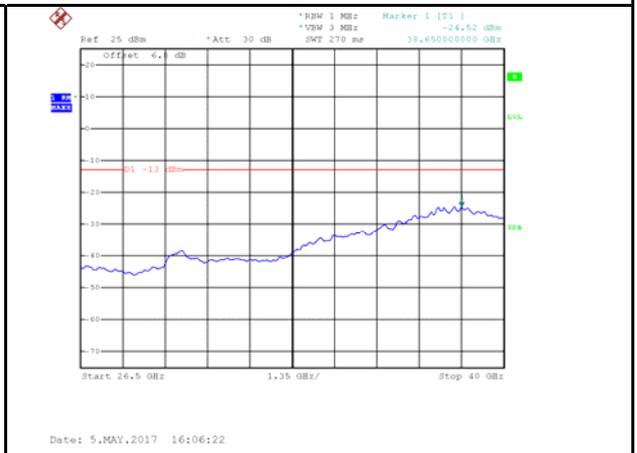
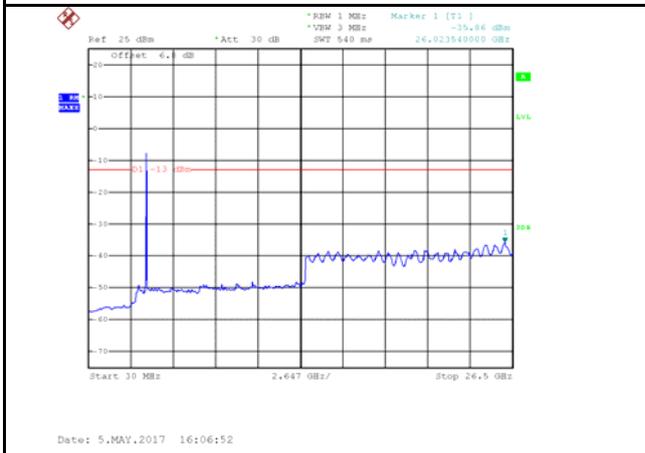


Date: 5.MAY.2017 16:03:39

50RB0 & 0RB0



100RB0 & 50RB0



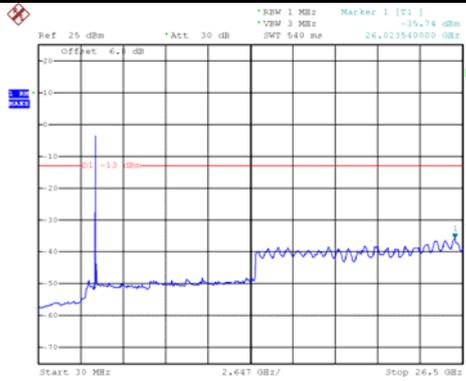
LTE Band 43_20M+20M

QPSK/ Channel: 43690+43888

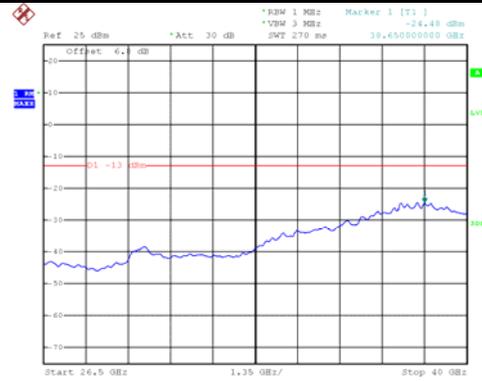
30MHz to 26.5GHz

26.5GHz to 40GHz

1RB0 & 0RB0

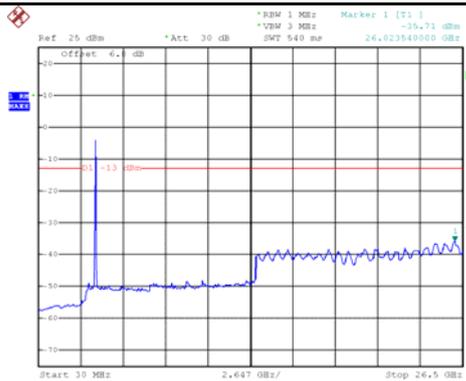


Date: 5.MAY.2017 14:47:08

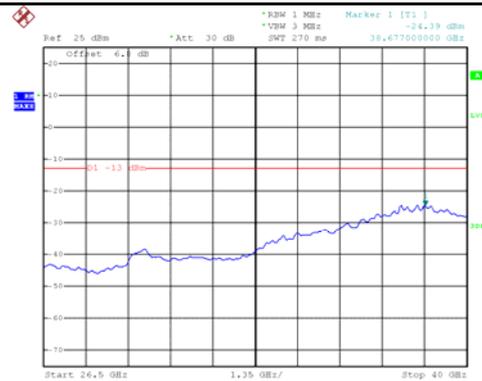


Date: 5.MAY.2017 14:56:46

1RB0 & 1RB99

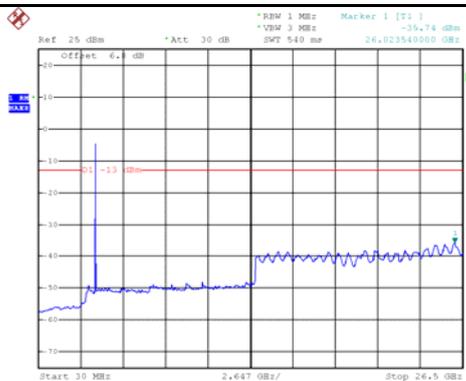


Date: 5.MAY.2017 14:48:22

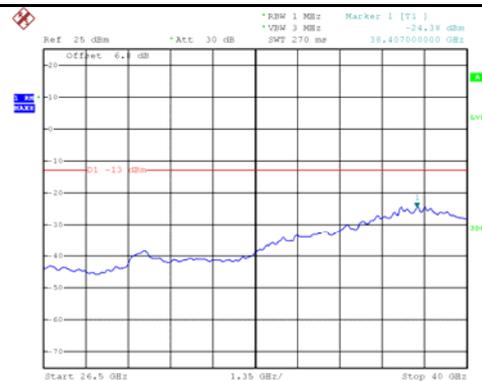


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1RB99 & 0RB0

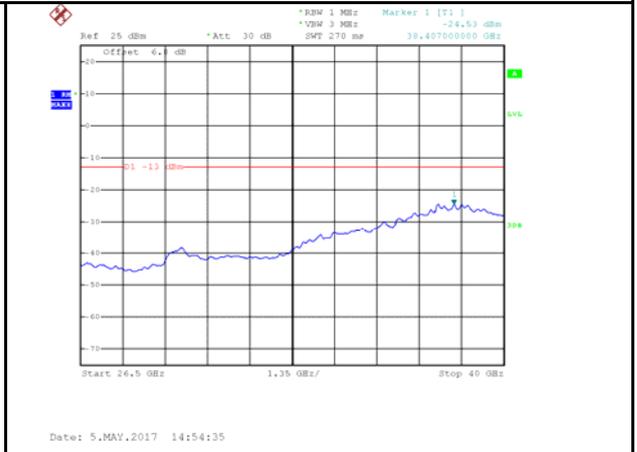
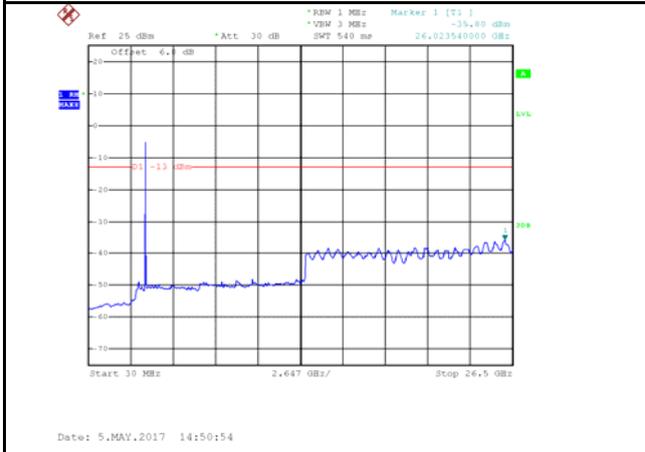


Date: 5.MAY.2017 14:50:00

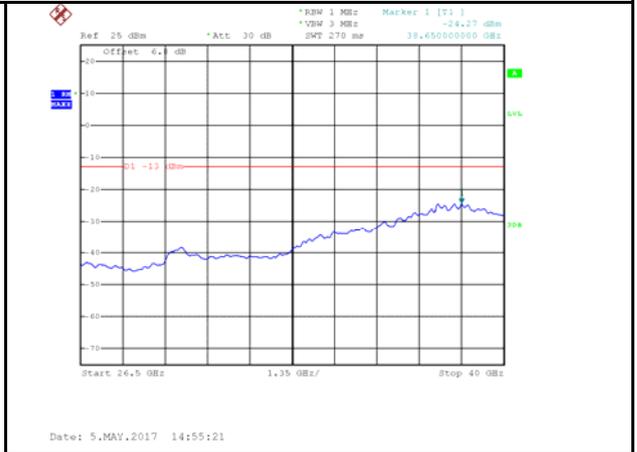


Date: 5.MAY.2017 14:54:10

100RB0 & 0RB/0



100RB0 & 100RB0



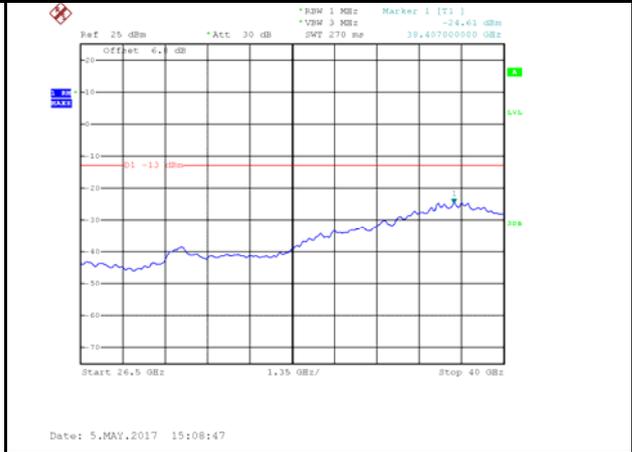
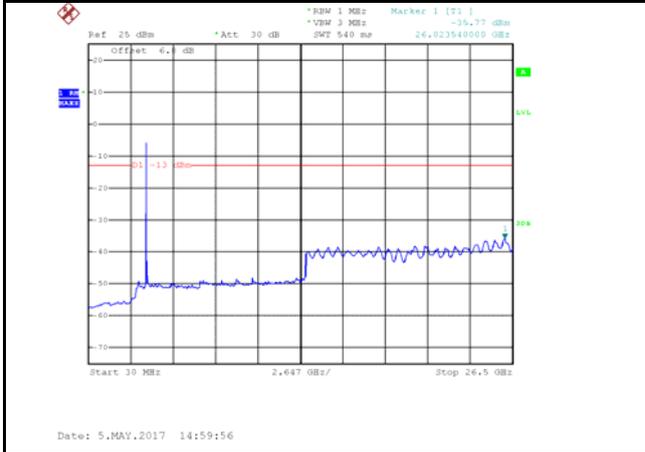
LTE Band 43_20M+20M

QPSK/Channel: 44240+44438

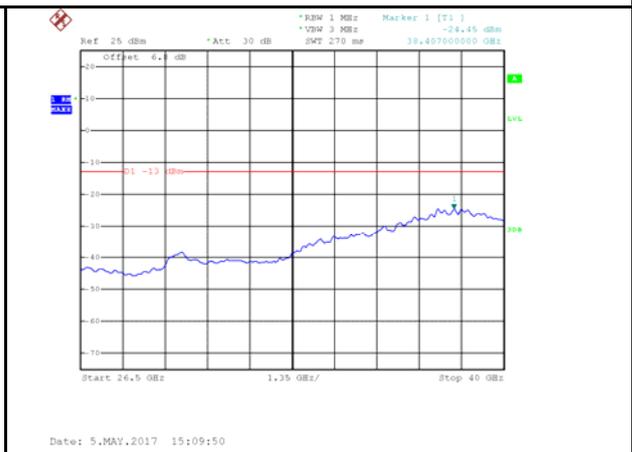
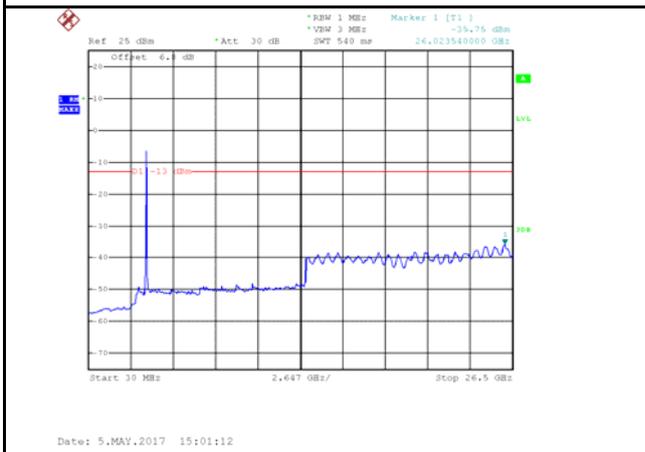
30MHz to 26.5GHz

26.5GHz to 40GHz

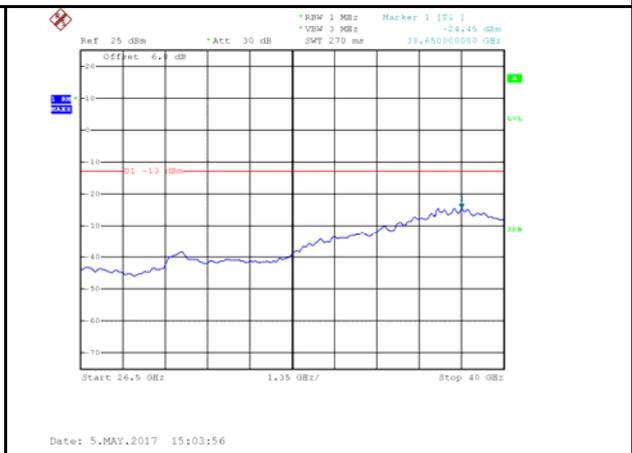
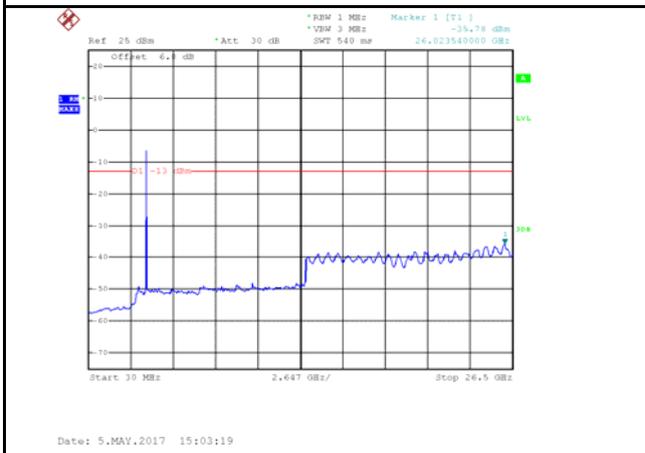
1RB0 & 0RB0



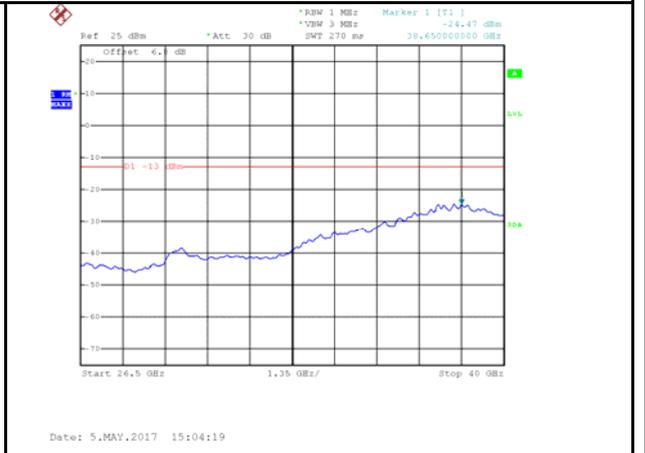
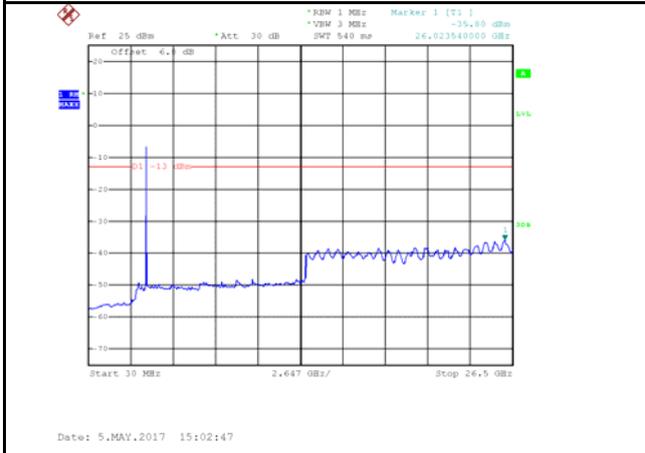
1RB0 & 1RB99



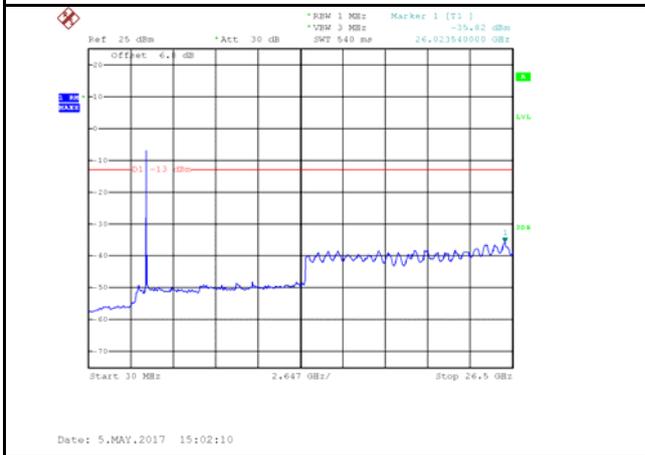
1RB99 & 0RB0



100RB0 & 0RB0



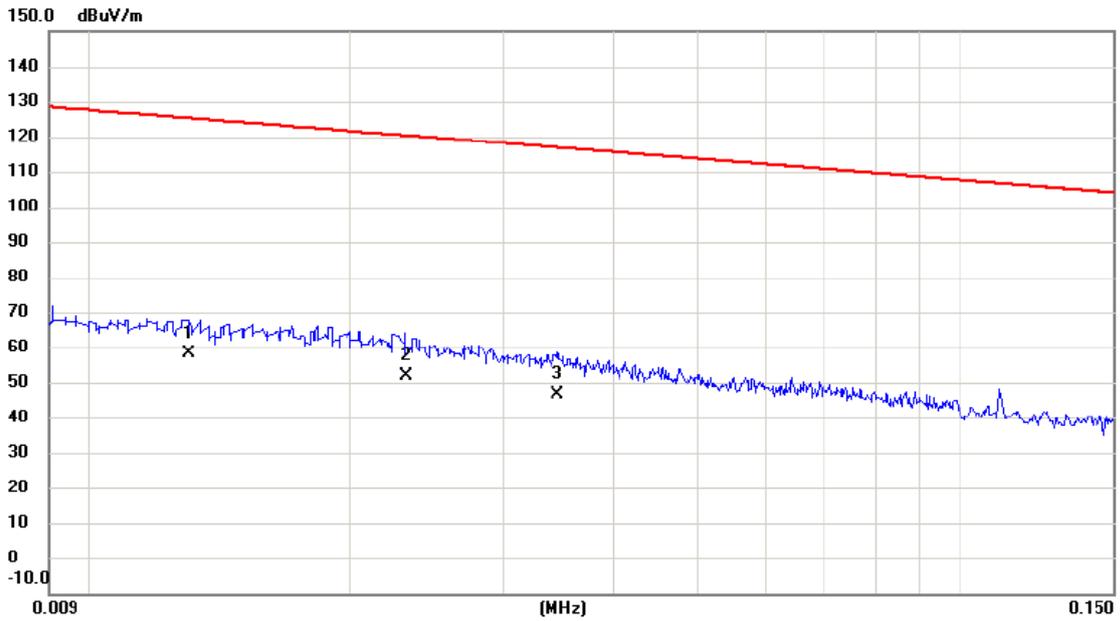
100RB0 & 100RB0



ATTACHMENT G - RADIATED EMISSION (BAND 43)

Test Mode: TX Mode

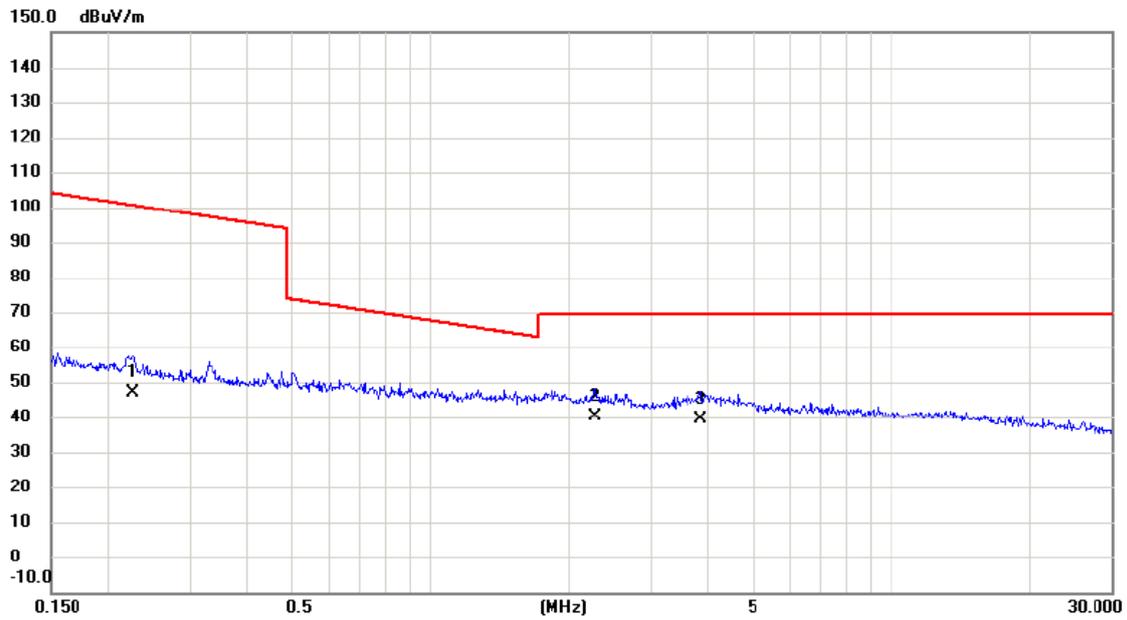
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0130	34.30	23.94	58.24	125.33	-67.09	AVG	
2		0.0231	28.60	23.14	51.74	120.33	-68.59	AVG	
3		0.0346	24.80	21.72	46.52	116.82	-70.30	AVG	

Test Mode: TX Mode

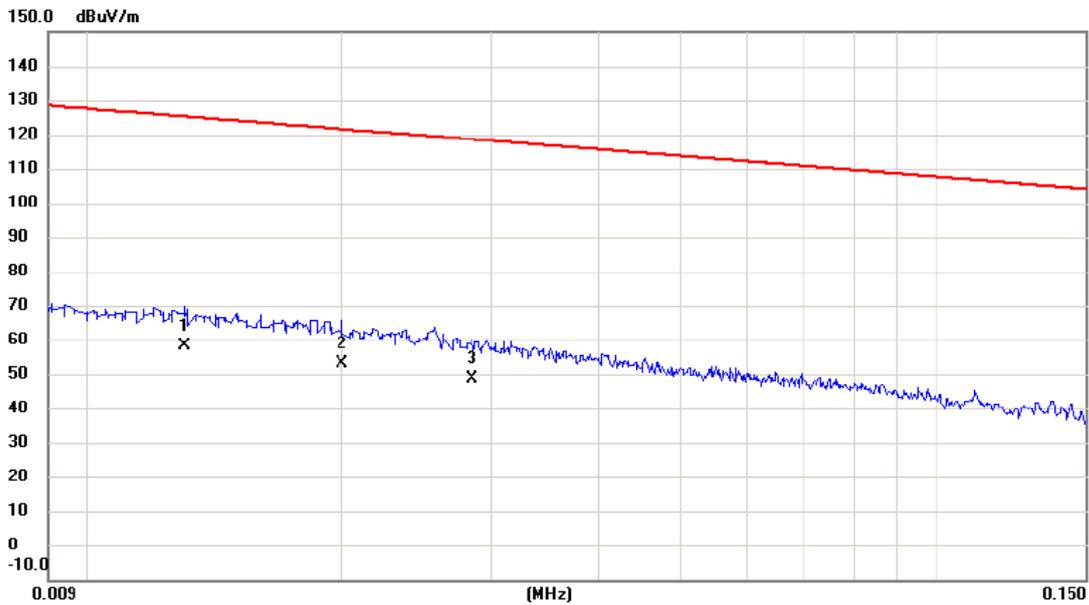
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2256	28.30	18.67	46.97	100.54	-53.57	AVG	
2	*	2.2726	22.70	17.56	40.26	69.54	-29.28	QP	
3		3.8400	21.10	18.41	39.51	69.54	-30.03	QP	

Test Mode: TX Mode

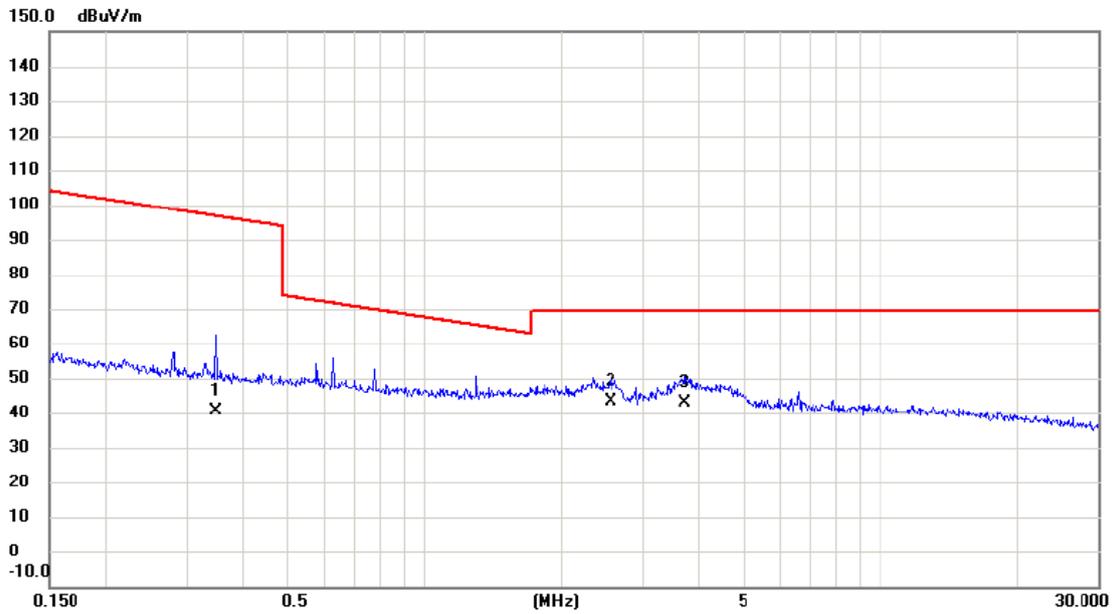
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0130	34.20	23.94	58.14	125.33	-67.19	AVG	
2		0.0200	29.50	23.52	53.02	121.58	-68.56	AVG	
3		0.0284	26.10	22.48	48.58	118.54	-69.96	AVG	

Test Mode: TX Mode

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3483	22.10	18.54	40.64	96.77	-56.13	AVG	
2	*	2.5535	26.30	17.20	43.50	69.54	-26.04	QP	
3		3.7198	24.80	18.16	42.96	69.54	-26.58	QP	

Test Mode: LTE Band 43_TX CH44340_5M

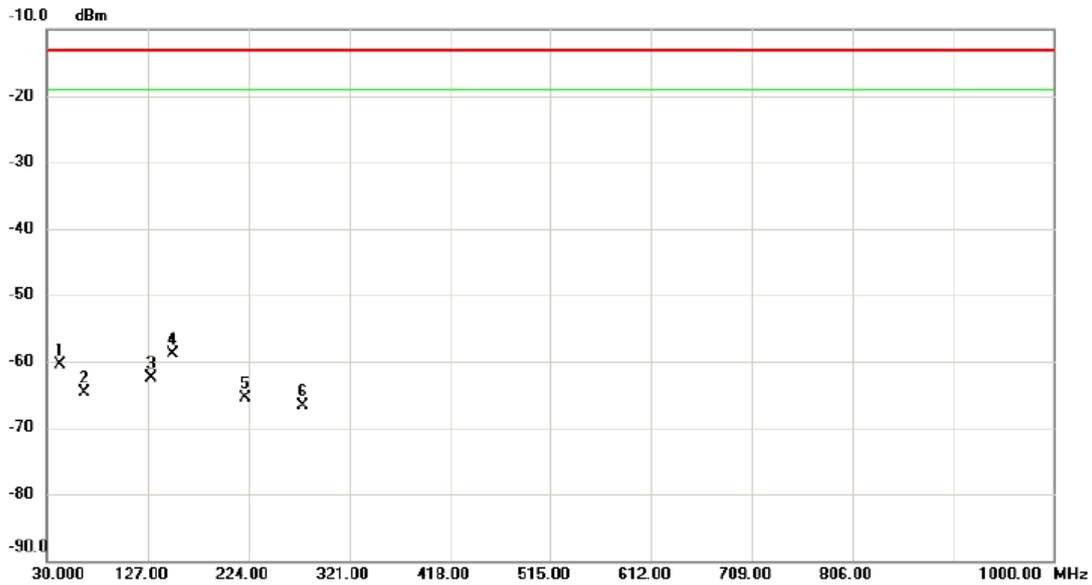
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		40.670	-60.71	2.10	-58.61	-13.00	-45.61	peak	
2	*	70.740	-53.95	-0.92	-54.87	-13.00	-41.87	peak	
3		159.980	-63.39	3.18	-60.21	-13.00	-47.21	peak	
4		219.150	-68.69	-1.48	-70.17	-13.00	-57.17	peak	
5		276.380	-76.65	2.48	-74.17	-13.00	-61.17	peak	
6		340.400	-74.99	1.70	-73.29	-13.00	-60.29	peak	

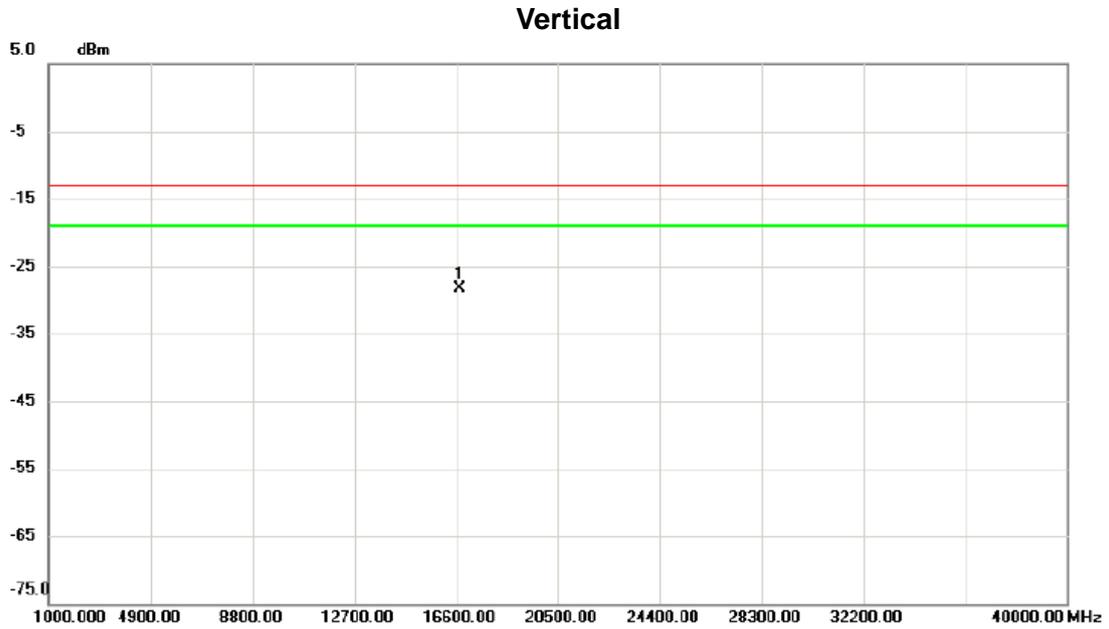
Test Mode: LTE Band 43_TX CH44340_5M

Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	42.610	-63.07	2.59	-60.48	-13.00	-47.48	peak	
2	65.890	-62.96	-1.75	-64.71	-13.00	-51.71	peak	
3	129.910	-61.84	-0.69	-62.53	-13.00	-49.53	peak	
4 *	150.280	-63.10	4.20	-58.90	-13.00	-45.90	peak	
5	220.120	-66.17	0.57	-65.60	-13.00	-52.60	peak	
6	276.380	-69.31	2.69	-66.62	-13.00	-53.62	peak	

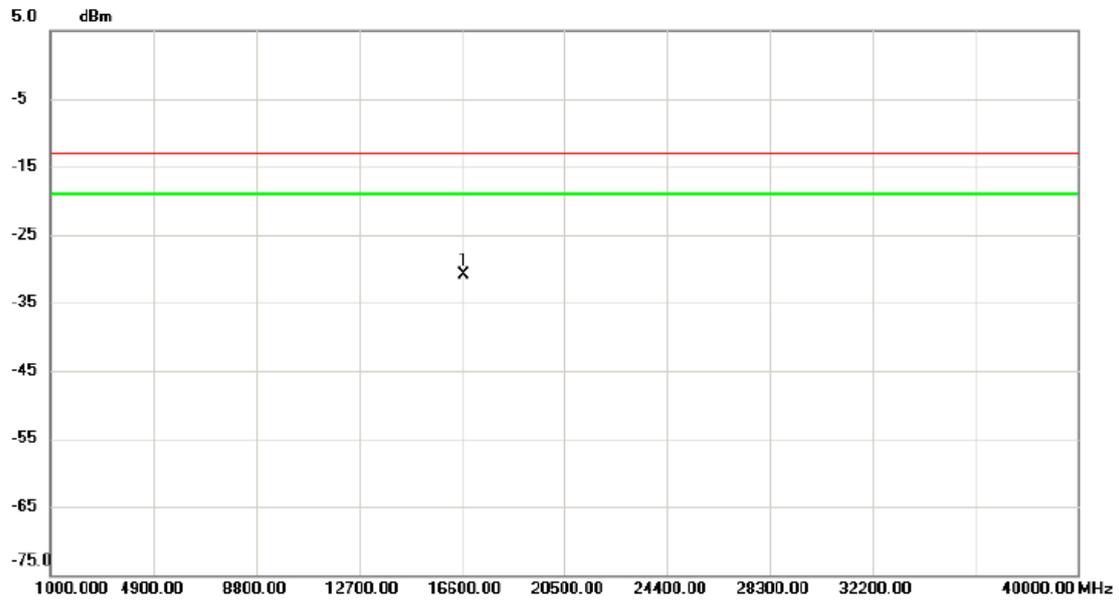
Test Mode: LTE Band 43_TX CH44340_5M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16706.000	-71.25	42.99	-28.26	-13.00	-15.26	peak	

Test Mode: LTE Band 43_TX CH44340_5M

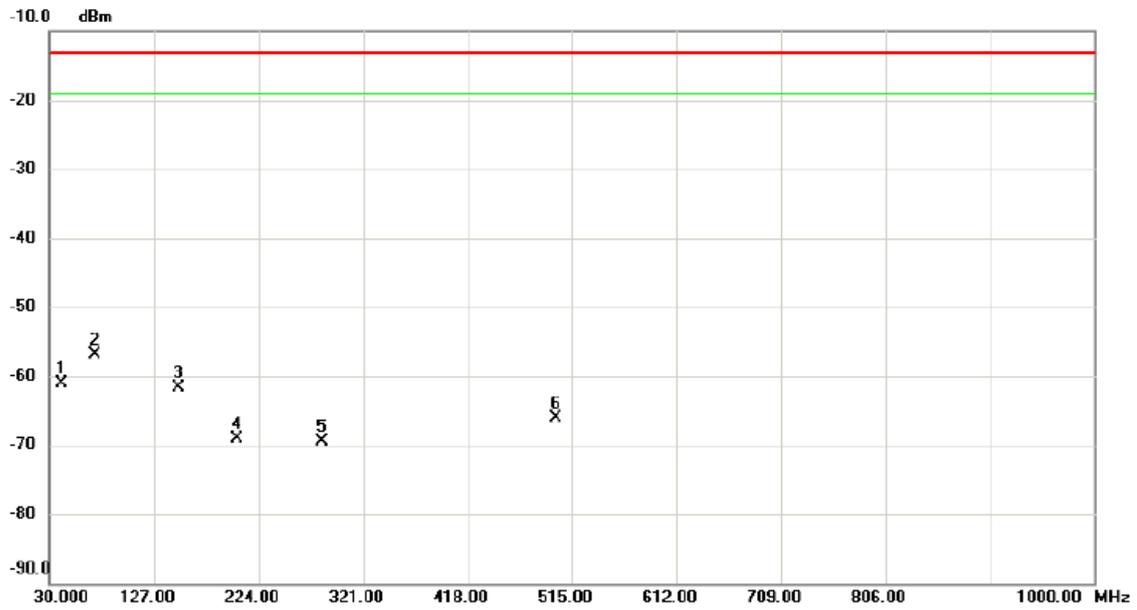
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16693.000	-72.33	41.44	-30.89	-13.00	-17.89	peak	

Test Mode: LTE Band 43_TX CH44340_20M

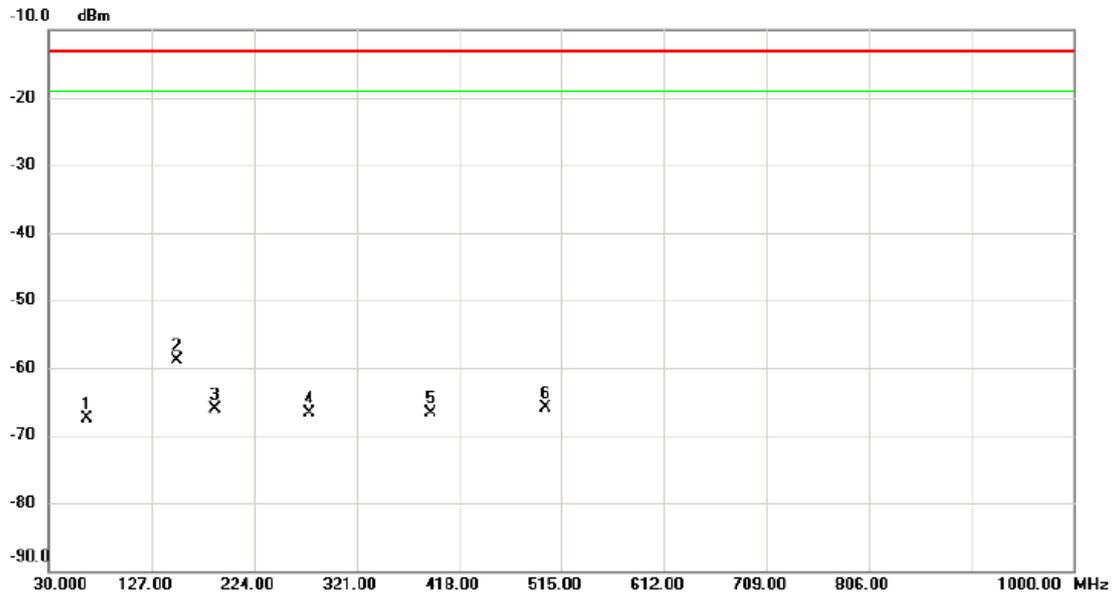
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		40.670	-63.20	2.10	-61.10	-13.00	-48.10	peak	
2	*	71.710	-54.86	-1.94	-56.80	-13.00	-43.80	peak	
3		149.310	-64.85	3.08	-61.77	-13.00	-48.77	peak	
4		203.630	-66.66	-2.38	-69.04	-13.00	-56.04	peak	
5		282.200	-72.02	2.56	-69.46	-13.00	-56.46	peak	
6		500.450	-73.60	7.55	-66.05	-13.00	-53.05	peak	

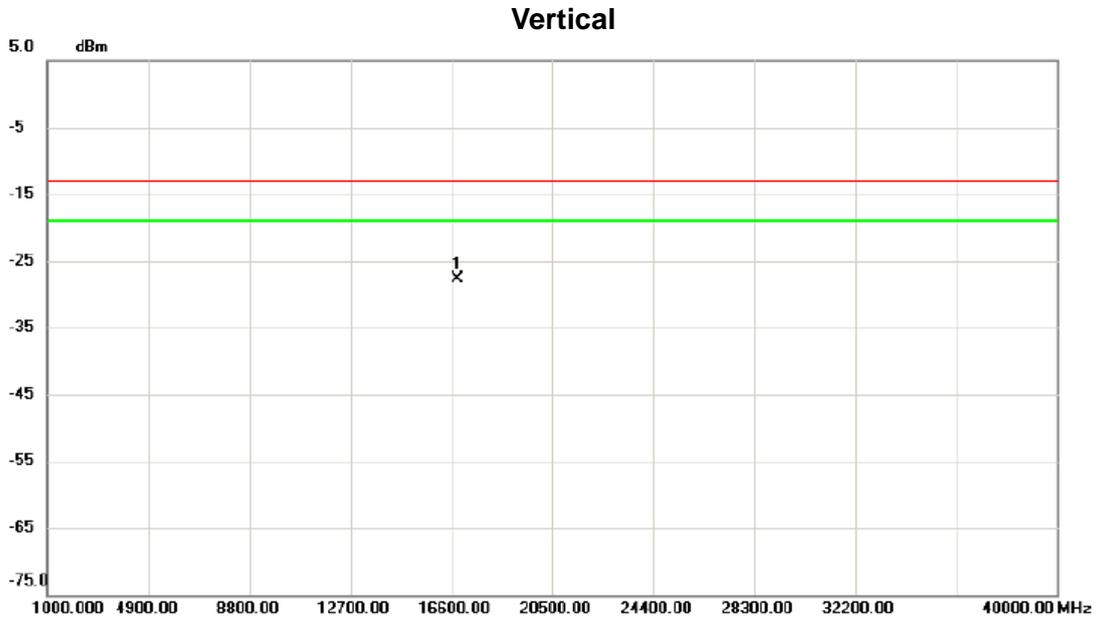
Test Mode: LTE Band 43_TX CH44340_20M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		65.890	-65.72	-1.75	-67.47	-13.00	-54.47	peak	
2	*	151.250	-63.02	4.05	-58.97	-13.00	-45.97	peak	
3		187.140	-64.23	-1.77	-66.00	-13.00	-53.00	peak	
4		276.380	-69.40	2.69	-66.71	-13.00	-53.71	peak	
5		390.840	-72.71	5.98	-66.73	-13.00	-53.73	peak	
6		500.450	-73.97	8.06	-65.91	-13.00	-52.91	peak	

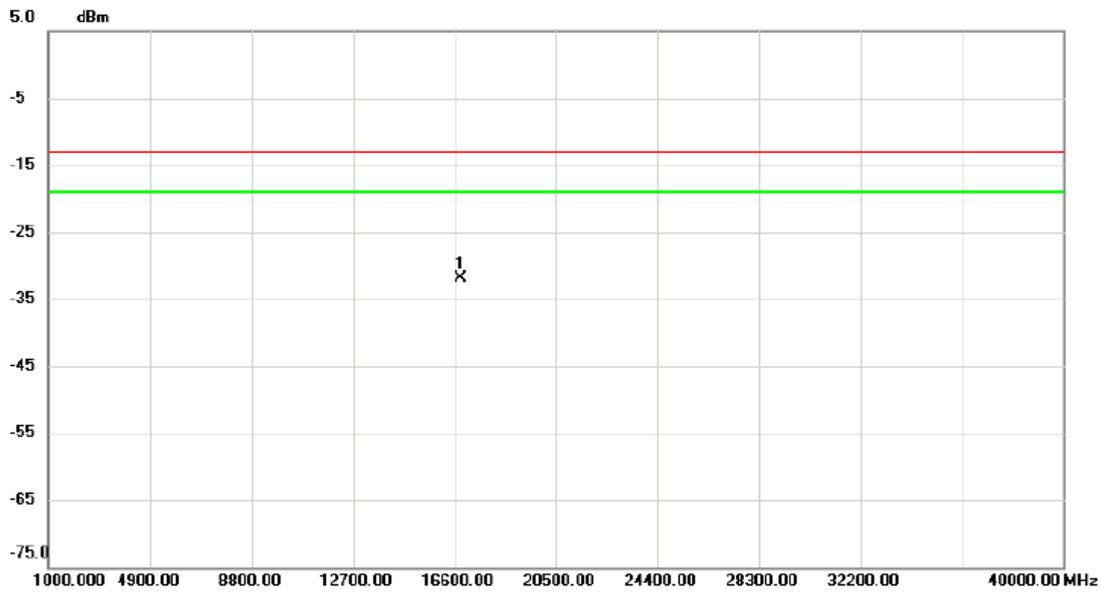
Test Mode: LTE Band 43_TX CH44340_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16812.000	-71.24	43.50	-27.74	-13.00	-14.74	peak	

Test Mode: LTE Band 43_TX CH44340_20M

Horizontal

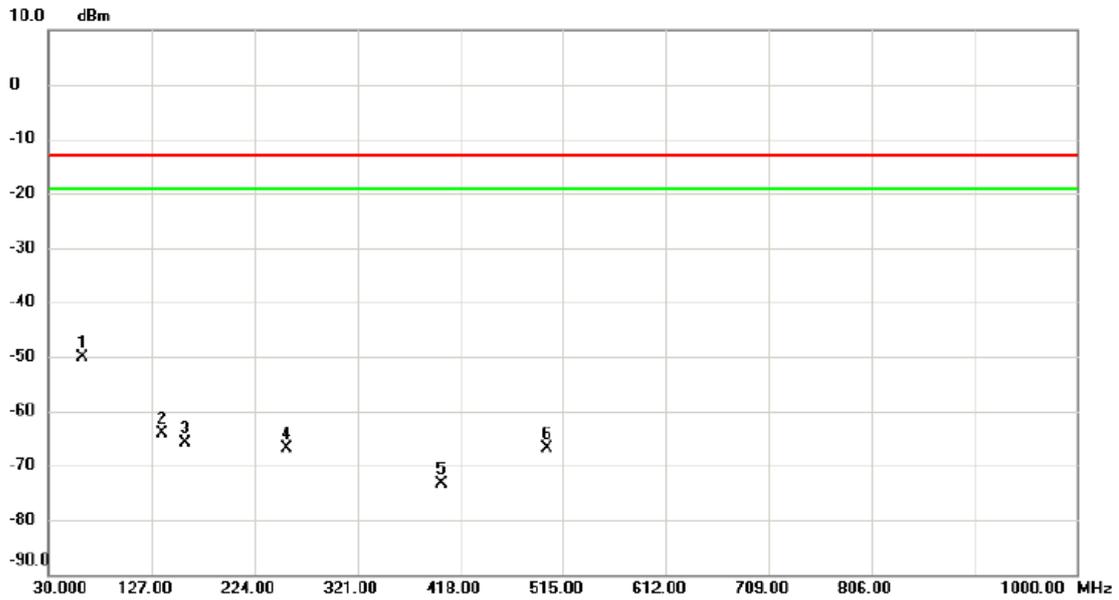


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16827.000	-73.95	42.13	-31.82	-13.00	-18.82	peak	

ATTACHMENT H - RADIATED EMISSION (CA_43C)

Test Mode: LTE Band 43_TX CH44190+44307_20M+5M

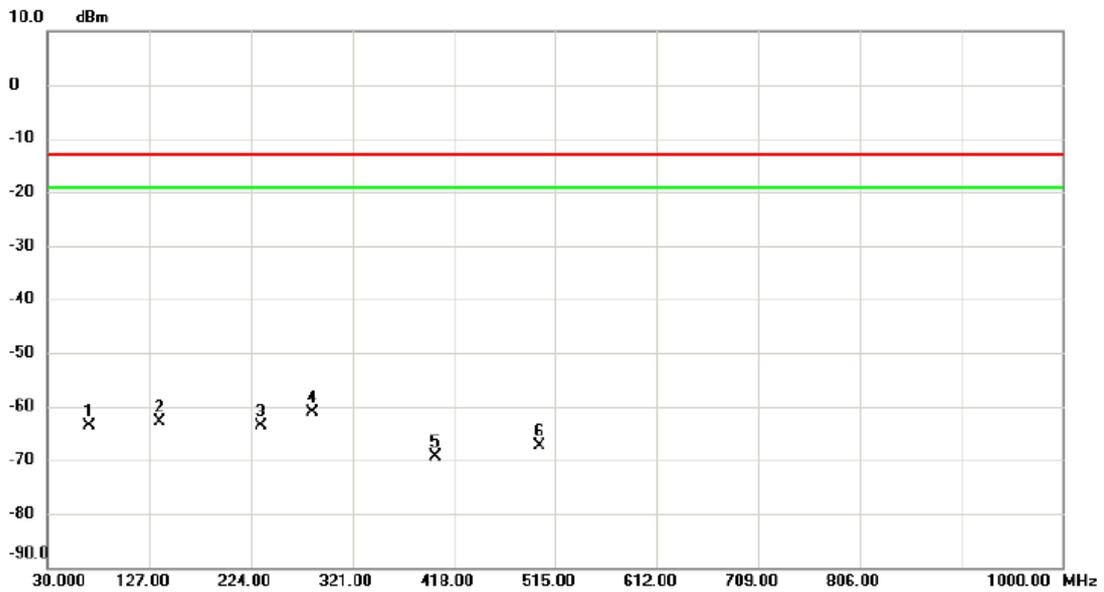
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	62.010	-50.95	0.73	-50.22	-13.00	-37.22	peak	
2		136.700	-65.32	1.24	-64.08	-13.00	-51.08	peak	
3		159.010	-69.10	3.18	-65.92	-13.00	-52.92	peak	
4		254.070	-67.20	0.39	-66.81	-13.00	-53.81	peak	
5		400.540	-77.39	4.12	-73.27	-13.00	-60.27	peak	
6		500.450	-74.50	7.55	-66.95	-13.00	-53.95	peak	

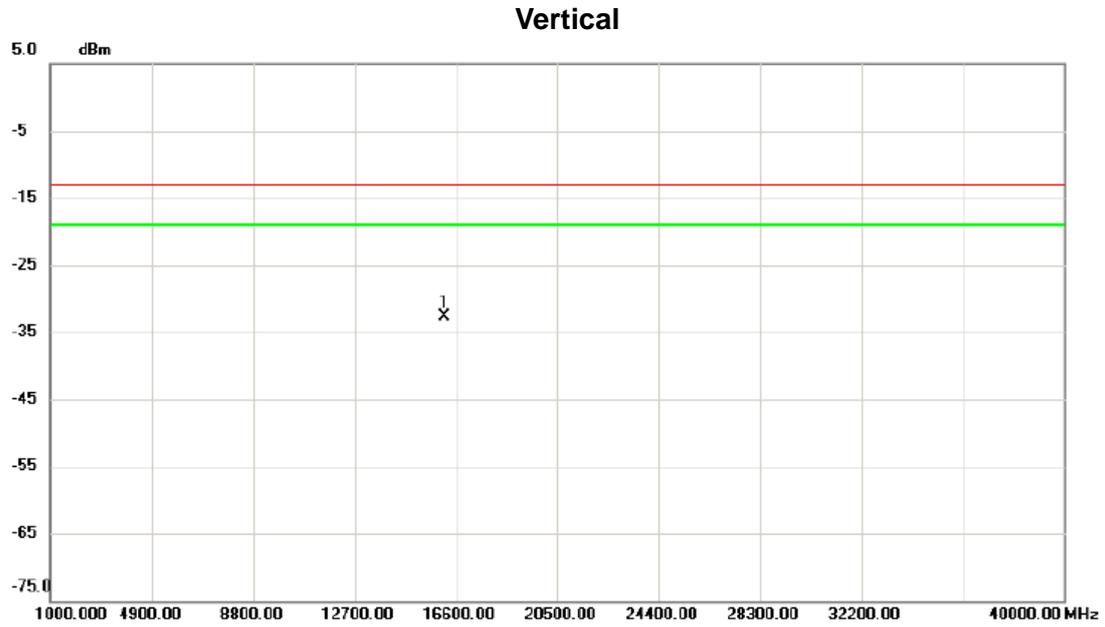
Test Mode: LTE Band 43_TX CH44190+44307_20M+5M

Horizontal



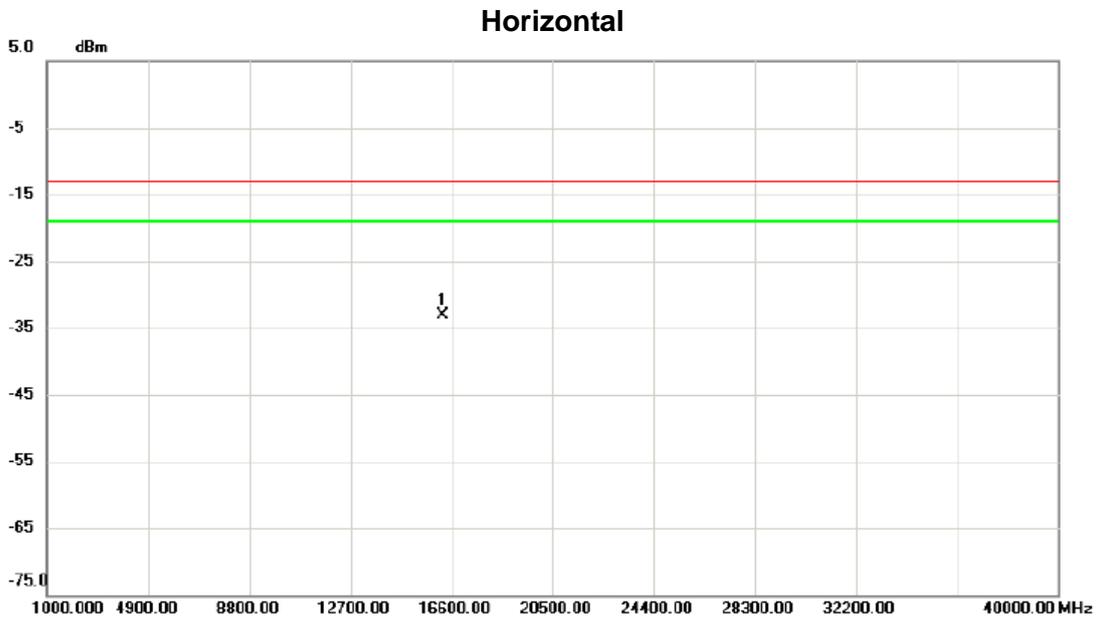
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		68.800	-60.42	-3.29	-63.71	-13.00	-50.71	peak	
2		136.700	-64.73	1.88	-62.85	-13.00	-49.85	peak	
3		233.700	-66.48	2.94	-63.54	-13.00	-50.54	peak	
4	*	283.170	-63.36	2.21	-61.15	-13.00	-48.15	peak	
5		400.540	-75.40	5.91	-69.49	-13.00	-56.49	peak	
6		500.450	-75.50	8.06	-67.44	-13.00	-54.44	peak	

Test Mode: LTE Band 43_TX CH44190+44307_20M+5M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	16144.000	-73.86	41.18	-32.68	-13.00	-19.68	peak	

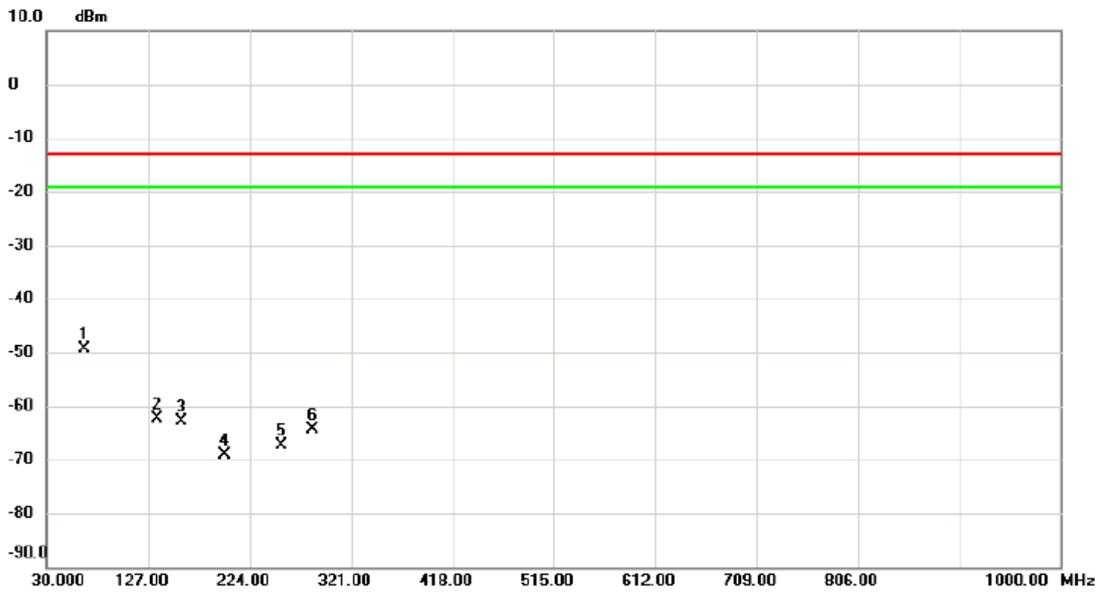
Test Mode: LTE Band 43_TX CH44190+44307_20M+5M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16236.000	-73.55	40.42	-33.13	-13.00	-20.13	peak	

Test Mode: LTE Band 43_TX CH44240+44438_20M+20M

Vertical



No.	Mk.	Freq. (MHz)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	Limit (dBm)	Margin (dB)	Detector	Comment
1	*	65.890	-50.15	0.89	-49.26	-13.00	-36.26	peak	
2		135.730	-63.24	0.97	-62.27	-13.00	-49.27	peak	
3		159.010	-66.10	3.18	-62.92	-13.00	-49.92	peak	
4		199.750	-66.88	-2.30	-69.18	-13.00	-56.18	peak	
5		254.070	-67.70	0.39	-67.31	-13.00	-54.31	peak	
6		284.140	-66.73	2.47	-64.26	-13.00	-51.26	peak	

Test Mode: LTE Band 43_TX CH44240+44438 _20M+20M

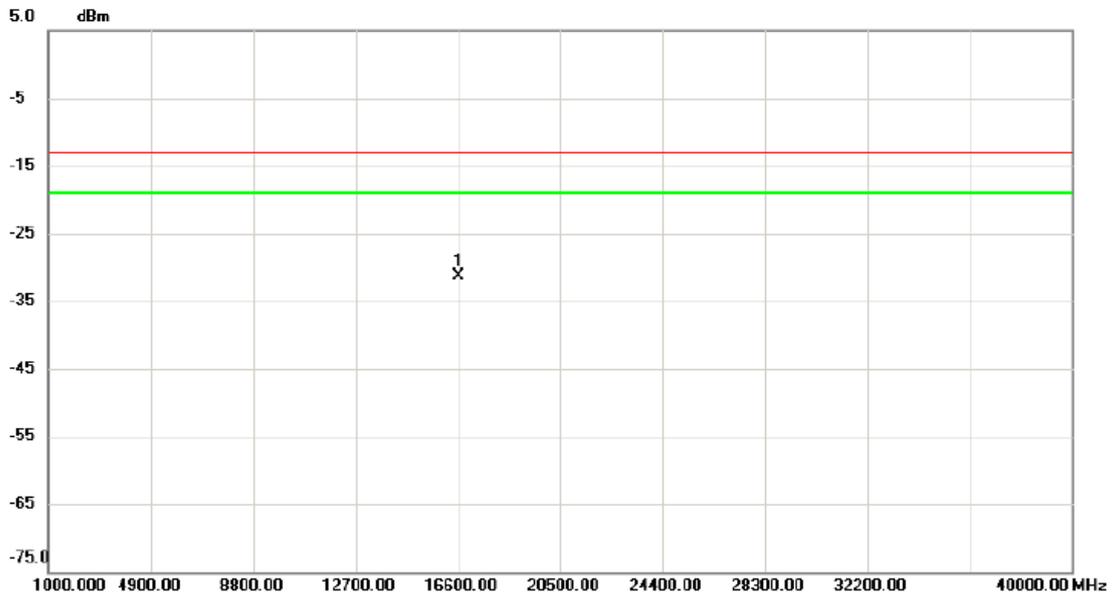
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		62.010	-62.07	-0.97	-63.04	-13.00	-50.04	peak	
2		135.730	-65.19	1.51	-63.68	-13.00	-50.68	peak	
3		199.750	-64.28	-1.90	-66.18	-13.00	-53.18	peak	
4	*	233.700	-64.98	2.94	-62.04	-13.00	-49.04	peak	
5		283.170	-65.36	2.21	-63.15	-13.00	-50.15	peak	
6		500.450	-70.50	8.06	-62.44	-13.00	-49.44	peak	

Test Mode: LTE Band 43_TX CH44240+44438 _20M+20M

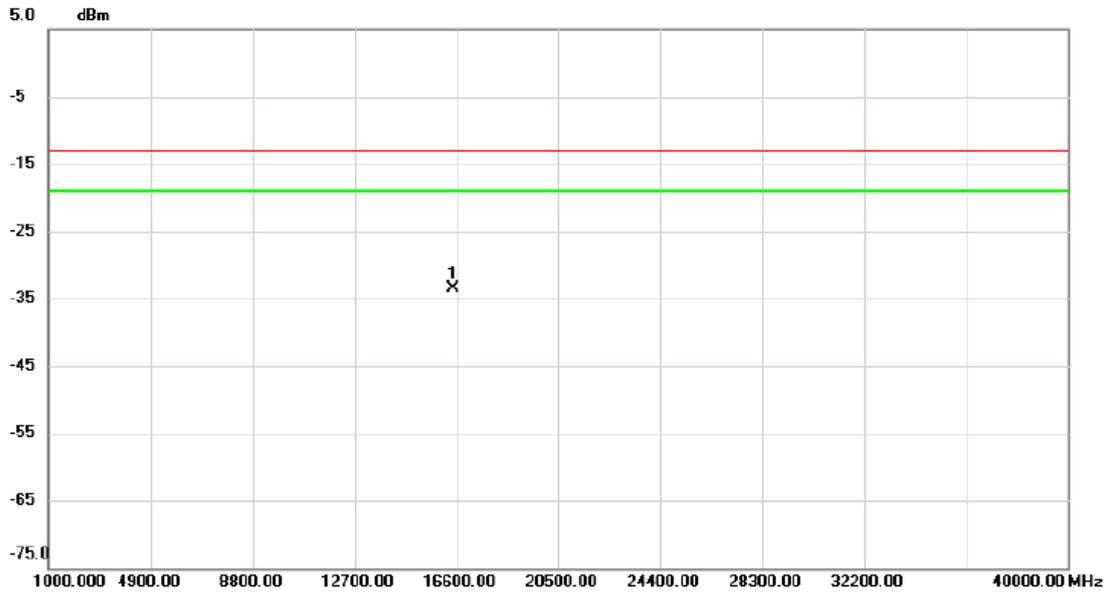
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16620.000	-73.96	42.58	-31.38	-13.00	-18.38	peak	

Test Mode: LTE Band 43_TX CH44240+44438 _20M+20M

Horizontal

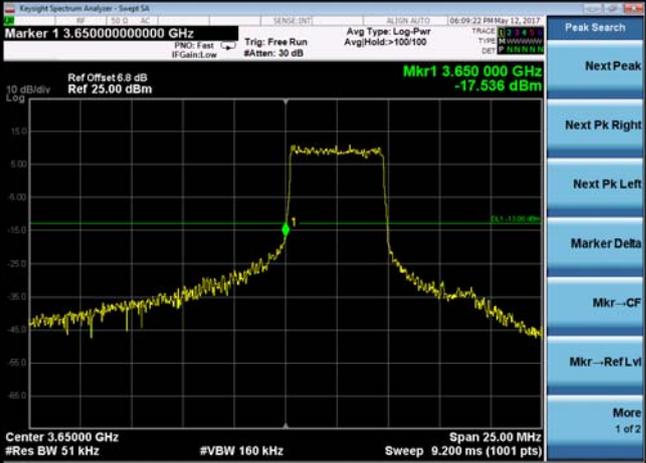


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16482.000	-73.89	40.45	-33.44	-13.00	-20.44	peak	

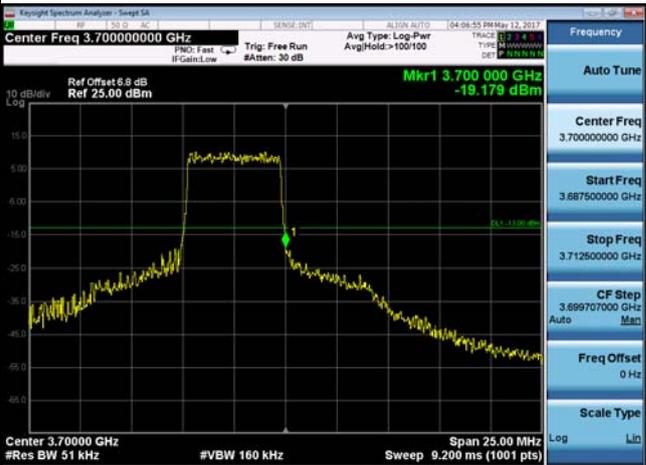
ATTACHMENT I - BAND EDGE (BAND 43)

LTE Band 43_5M_QPSK

1RB0		25RB0	
Channel	44115	Channel	44115



1RB24		25RB0	
Channel	44565	Channel	44565



LTE Band 43_10M_QPSK

1RB0

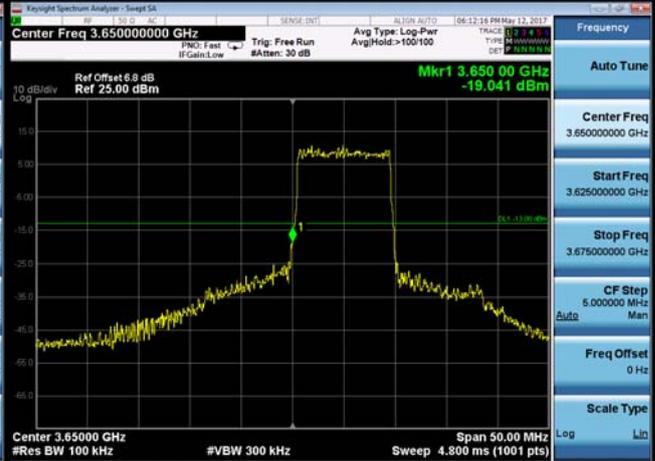
50RB0

Channel

44140

Channel

44140



1RB49

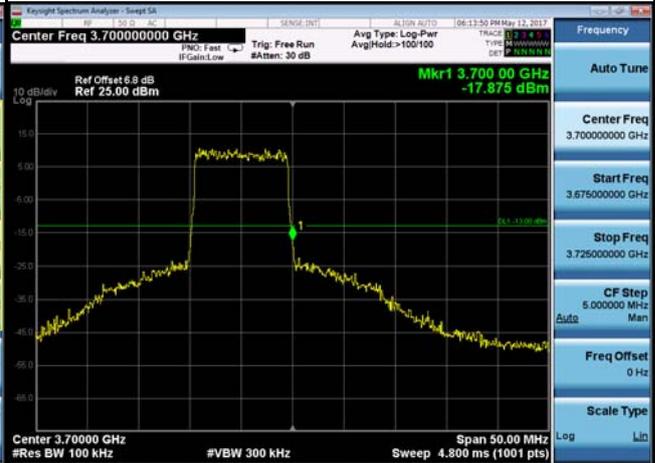
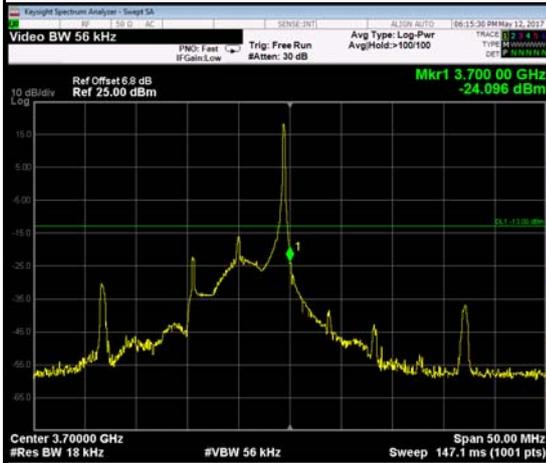
50RB0

Channel

44540

Channel

44540



LTE Band 43_15M_QPSK

1RB0

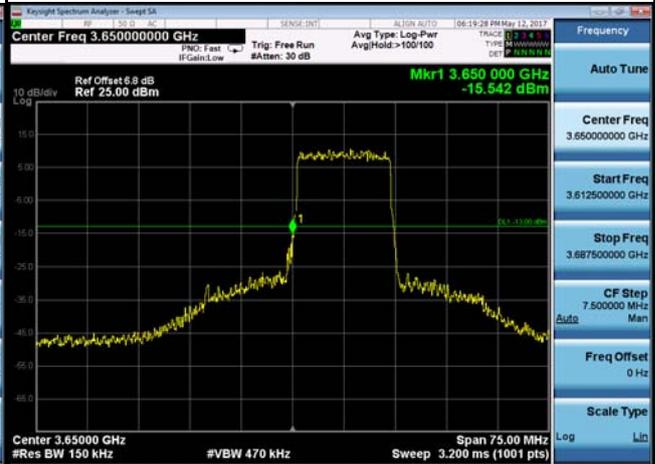
75RB0

Channel

44165

Channel

44165



1RB74

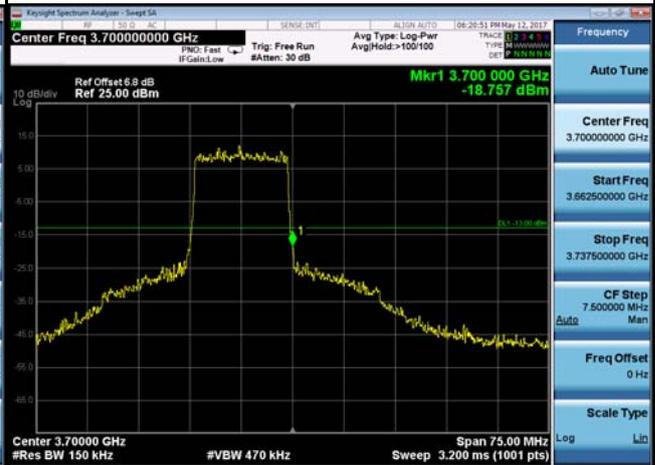
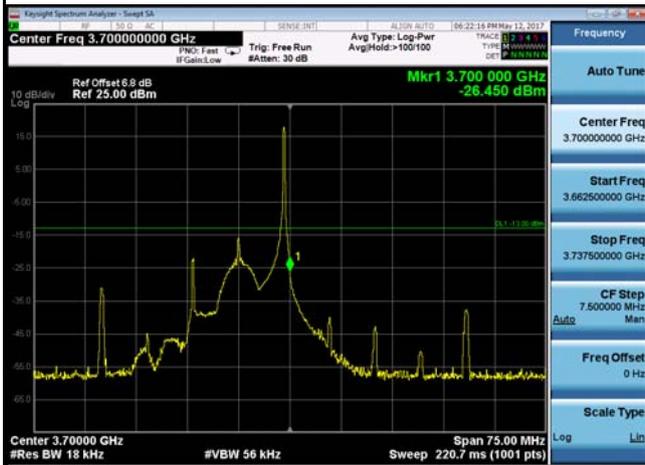
75RB0

Channel

44515

Channel

44515



LTE Band 43_20M_QPSK

1RB0

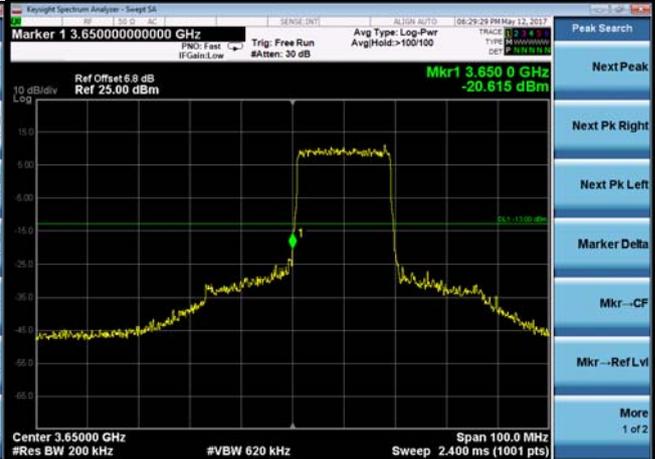
100RB0

Channel

44190

Channel

44190



1RB99

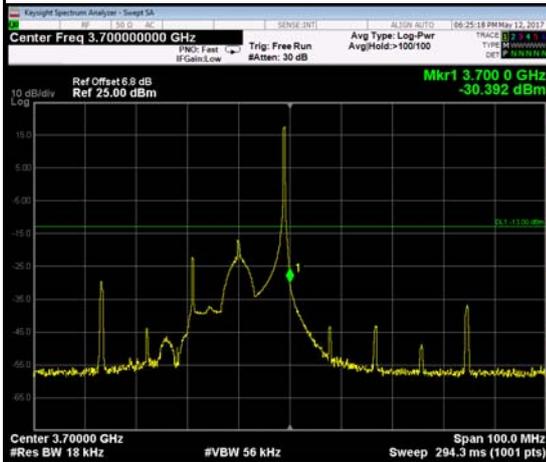
100RB0

Channel

44490

Channel

44490



ATTACHMENT J - BAND EDGE (2CC CA)

LTE Band 43_20M+20_QPSK

100RB0&100RB0

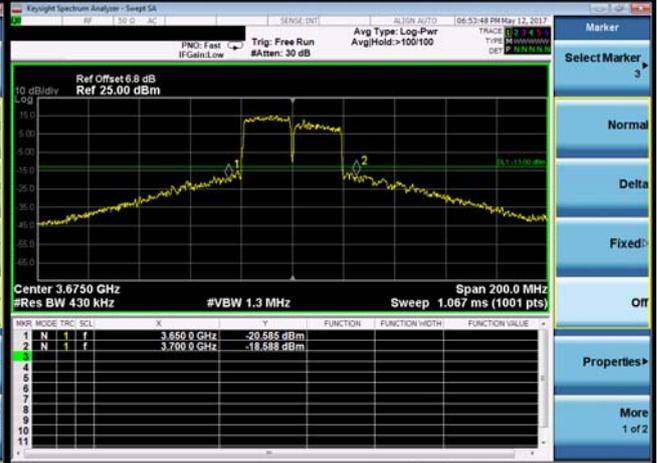
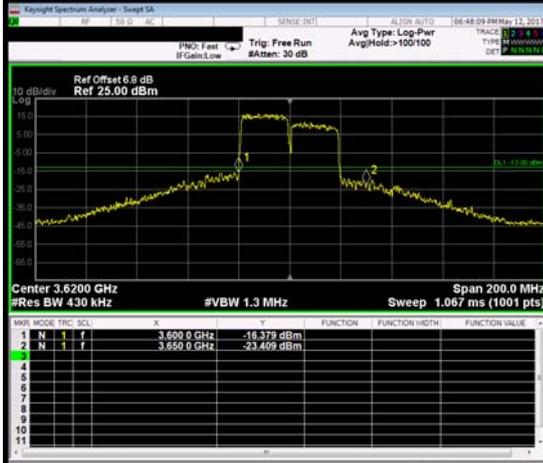
100RB0&100RB0

Channel

43690+43888

Channel

44240+44438



ATTACHMENT K - EMISSION MASK (BAND 43)

LTE Band 43_5M_QPSK

25RB0

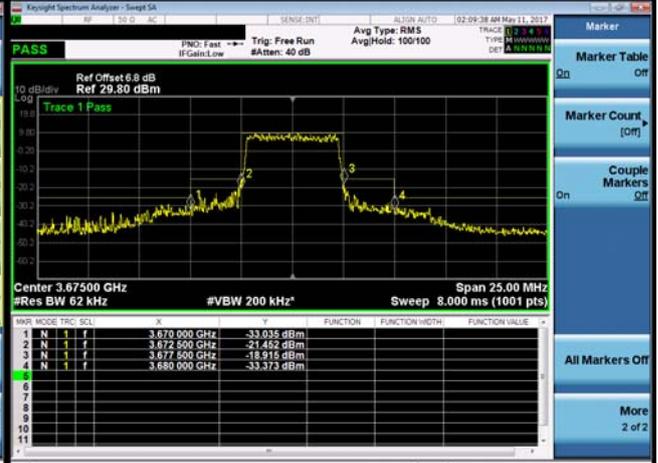
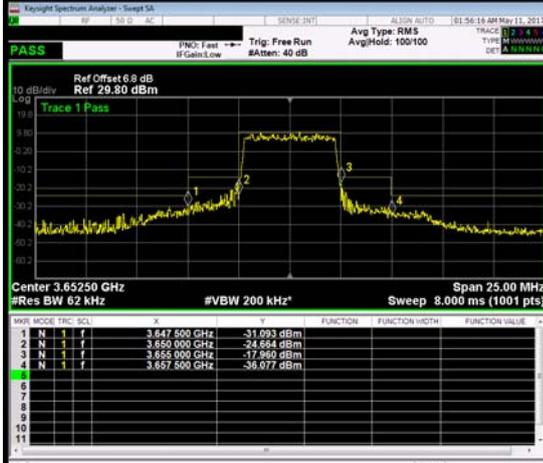
25RB0

Channel

44115

Channel

44340



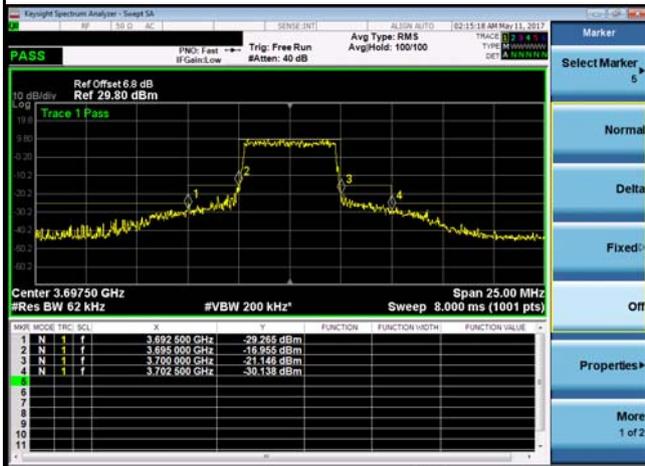
25RB0

Channel

44565

-

-



LTE Band 43_5M_16QAM

25RB0

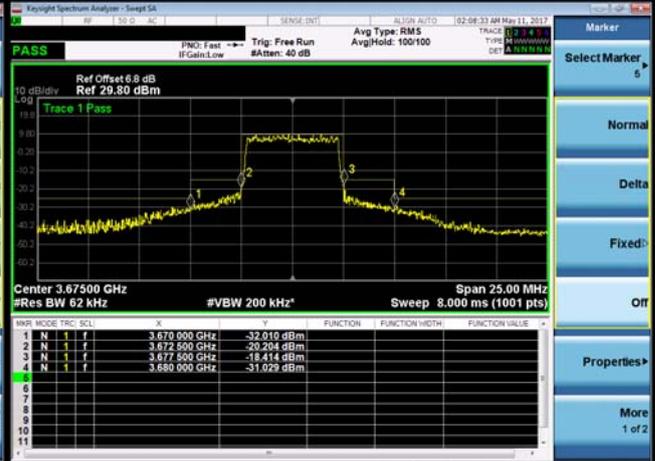
25RB0

Channel

44115

Channel

44340



25RB0

Channel

44565



LTE Band 43_10M_QPSK

50RB0

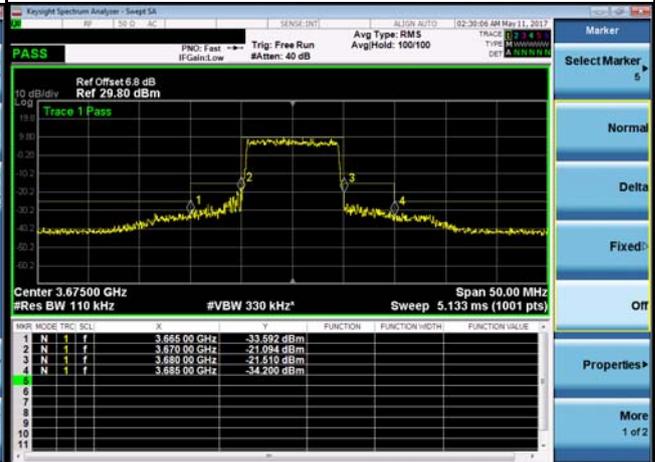
50RB0

Channel

44140

Channel

44340



50RB0

Channel

44540



LTE Band 43_10M_16QAM

50RB0

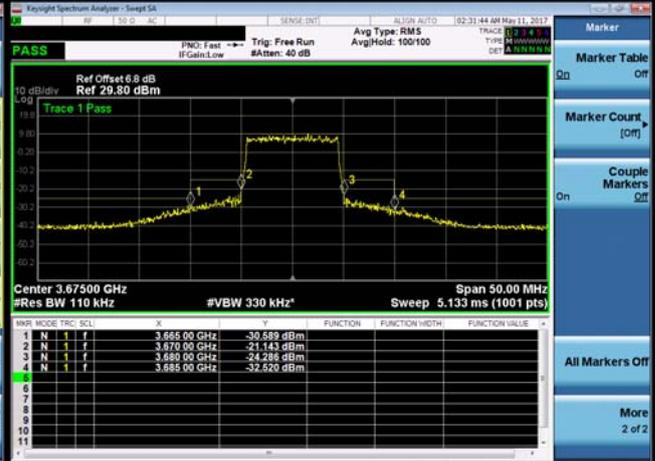
50RB0

Channel

44140

Channel

44340



50RB0

Channel

44540



LTE Band 43_15M_QPSK

75RB0

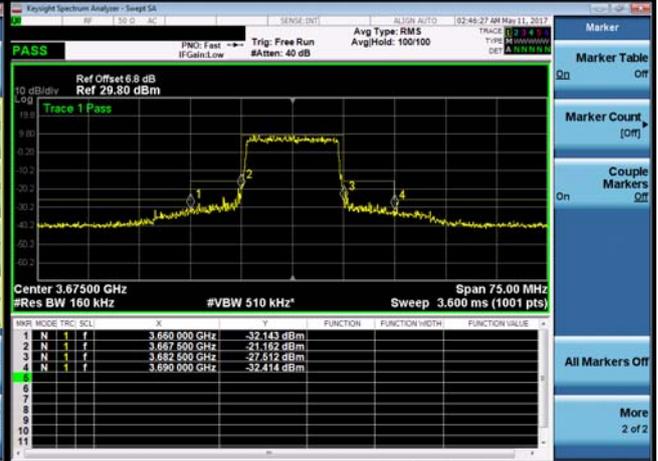
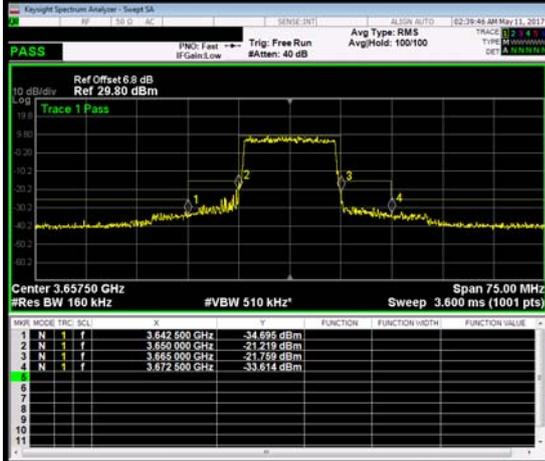
75RB0

Channel

44165

Channel

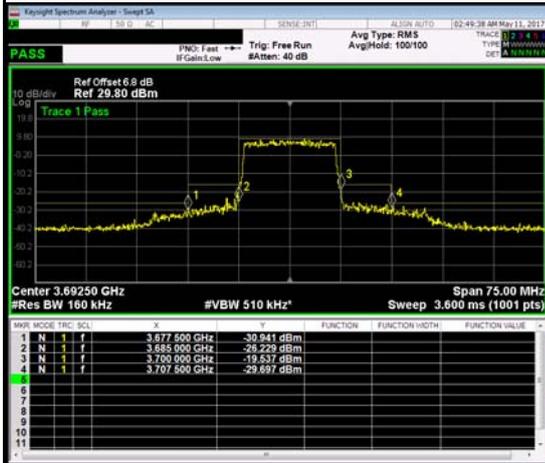
44340



75RB0

Channel

44515



LTE Band 43_15M_16QAM

75RB0

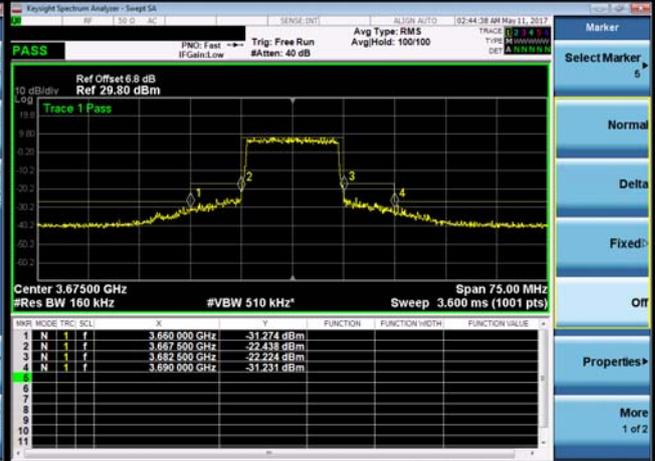
75RB0

Channel

44165

Channel

44340



75RB0

Channel

44515



LTE Band 43_20M_QPSK

100RB0

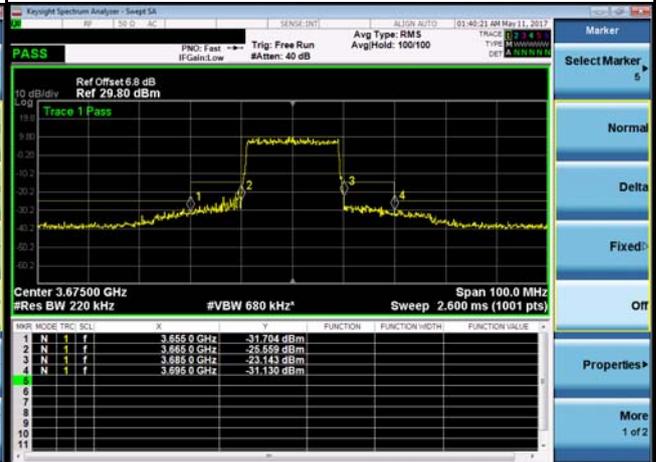
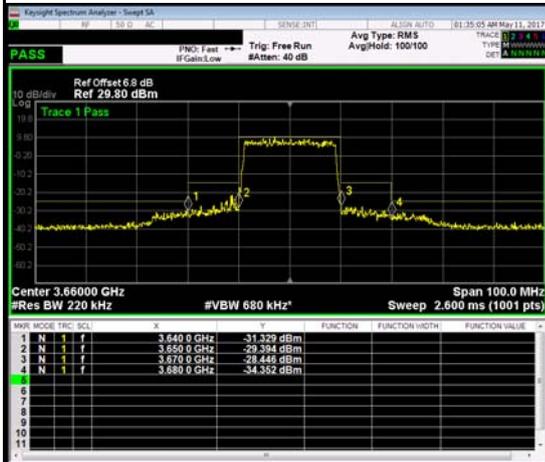
100RB0

Channel

44190

Channel

44340



100RB0

Channel

44490



LTE Band 43_20M_16QAM

100RB0

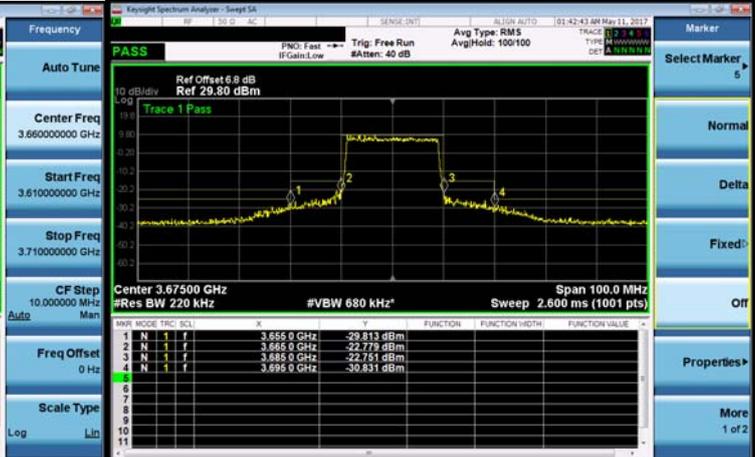
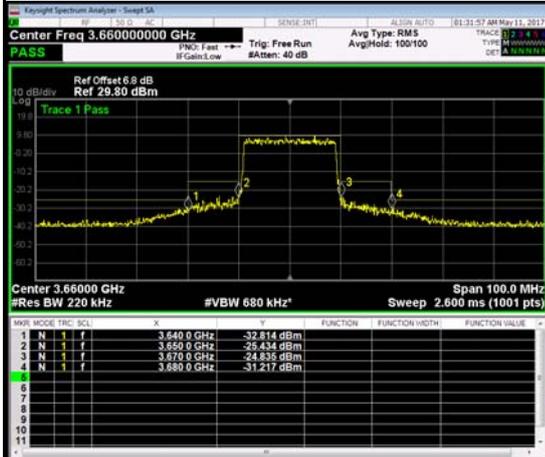
100RB0

Channel

44190

Channel

44340



100RB0

Channel

44490



ATTACHMENT L - EMISSION MASK (CA_43C)

LTE Band 43_20M+5M

100RB0 & 25RB0_QPSK

25RB0_16QAM

Channel

43690+43807

Channel

43690+43807



100RB0 & 25RB0_QPSK

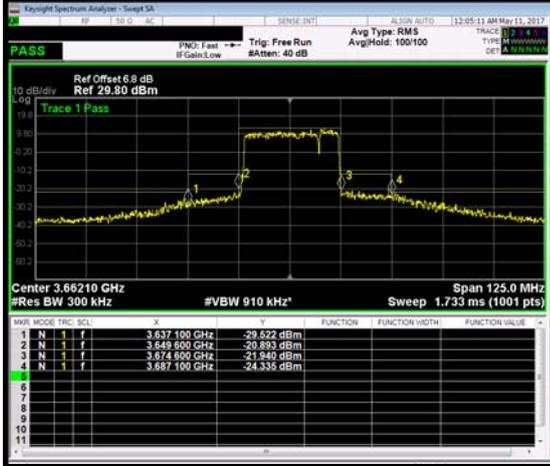
25RB0_16QAM

Channel

44190+44307

Channel

44190+44307-



LTE Band 43_20M+20M

100RB0 & 100RB0_QPSK

25RB0_16QAM

Channel 43690+43888

Channel 43690+43888

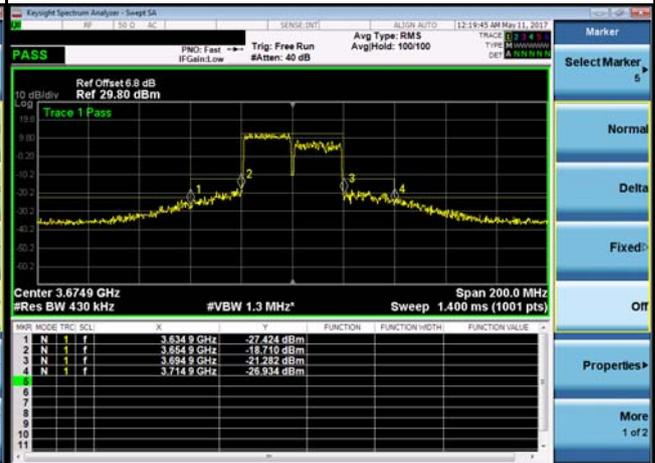


100RB0 & 25RB0_QPSK

25RB0_16QAM

Channel 44240+44438

Channel 44240+44438



ATTACHMENT M - POWER SPECTRAL DENSITY (BAND 43)

LTE Band 43_5M_QPSK

25RB0		25RB0	
Channel	44115	Channel	44340
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 13.16 dBm *VBW 3 MHz SWT 20 ms 3.652028800 GHz</p> <p>Offset 6.8 dB</p> <p>Center 3.6520 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 16.MAY.2017 17:42:33</p>		<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 14.83 dBm *VBW 3 MHz SWT 20 ms 3.674440000 GHz</p> <p>Offset 6.8 dB</p> <p>Center 3.675 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 5.MAY.2017 21:46:04</p>	
25RB0		-	
Channel	44565	-	-
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 15.75 dBm *VBW 3 MHz SWT 20 ms 3.696680000 GHz</p> <p>Offset 6.8 dB</p> <p>Center 3.6975 GHz 1 MHz/ Span 10 MHz</p> <p>Date: 5.MAY.2017 21:18:02</p>			

LTE Band 43_5M_16QAM

25RB0

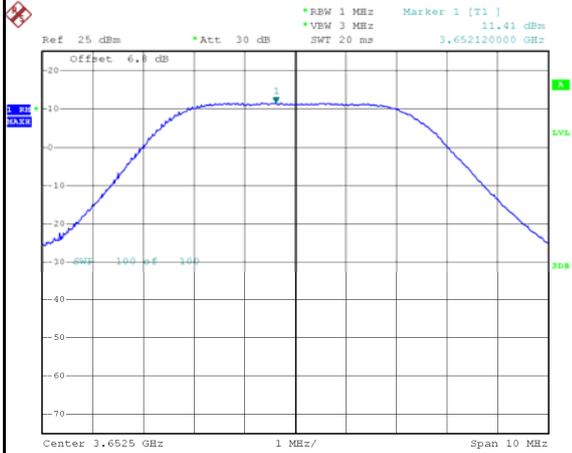
25RB0

Channel

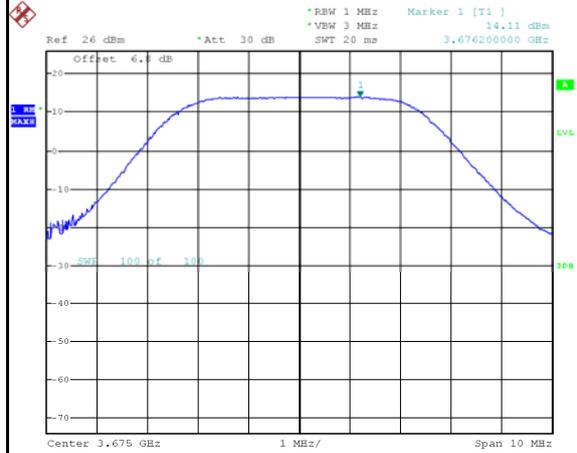
44115

Channel

44340



Date: 16.MAY.2017 17:44:45



Date: 5.MAY.2017 20:19:46

25RB0

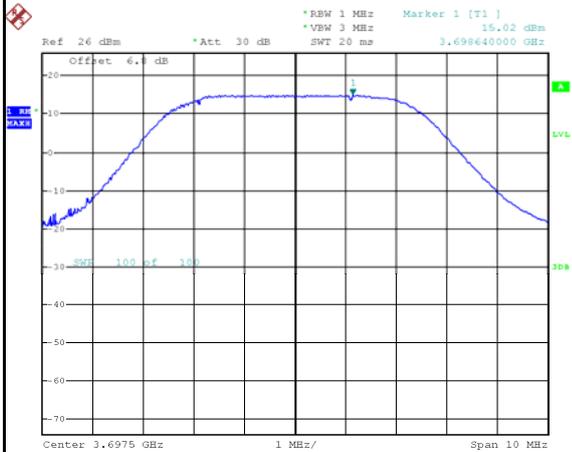
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Channel

44565

-

-



Date: 5.MAY.2017 21:20:56

LTE Band 43_10M_QPSK

50RB0

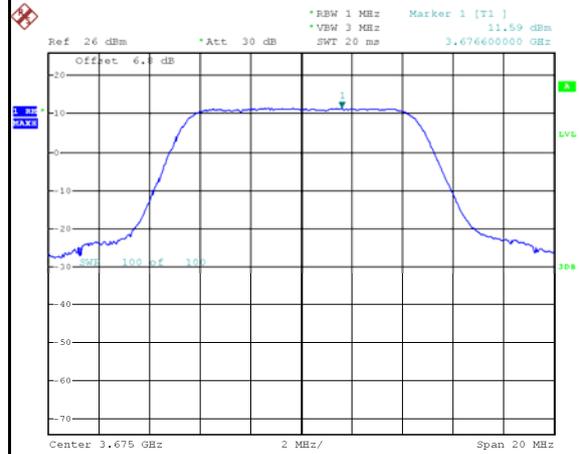
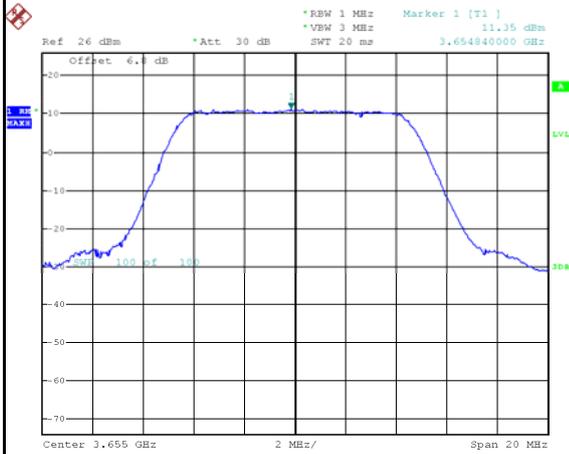
50RB0

Channel

44140

Channel

44340



Date: 5.MAY.2017 20:01:13

Date: 5.MAY.2017 21:46:38

50RB0

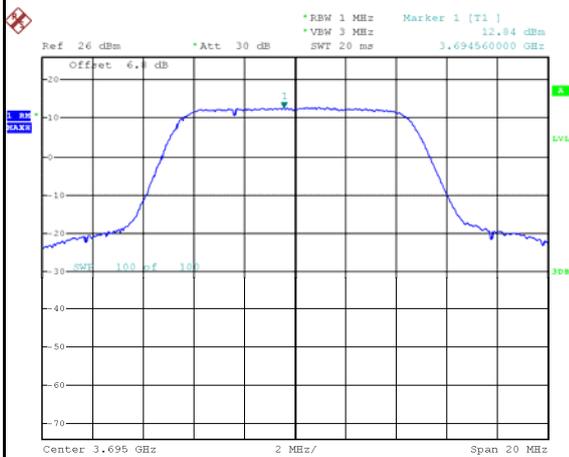
-

Channel

44540

-

-



Date: 5.MAY.2017 21:14:41

LTE Band 43_10M_16QAM			
50RB0		50RB0	
Channel	44140	Channel	44340
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 11.06 dBm *VBW 3 MHz *SWT 20 ms 3.655080000 GHz</p> <p>Offset 6.0 dB Center 3.655 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 5.MAY.2017 20:02:35</p>		<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 11.11 dBm *VBW 3 MHz *SWT 20 ms 3.673160000 GHz</p> <p>Offset 6.0 dB Center 3.675 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 5.MAY.2017 20:30:01</p>	
50RB0		-	
Channel	44540	-	-
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 12.18 dBm *VBW 3 MHz *SWT 20 ms 3.693680000 GHz</p> <p>Offset 6.0 dB Center 3.695 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 5.MAY.2017 21:12:33</p>			

LTE Band 43_15M_QPSK

75RB0

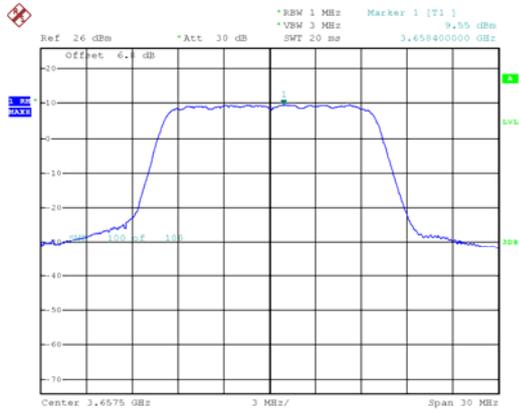
75RB0

Channel

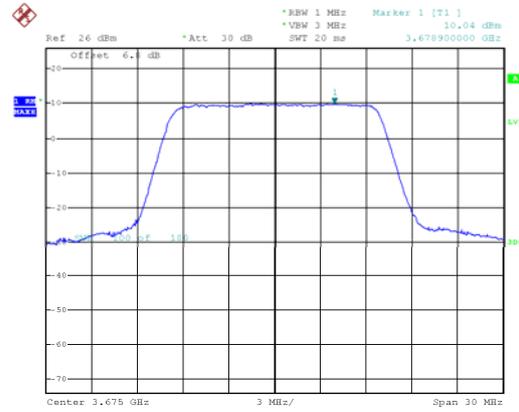
44165

Channel

44340



Date: 5.MAY.2017 21:44:37



Date: 5.MAY.2017 20:50:21

75RB0

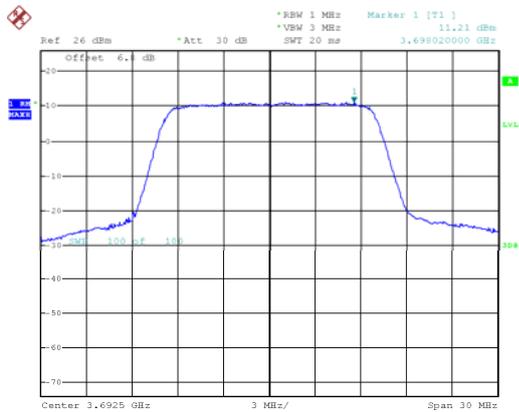
-

Channel

44515

-

-



Date: 5.MAY.2017 21:06:19

LTE Band 43_15M_16QAM

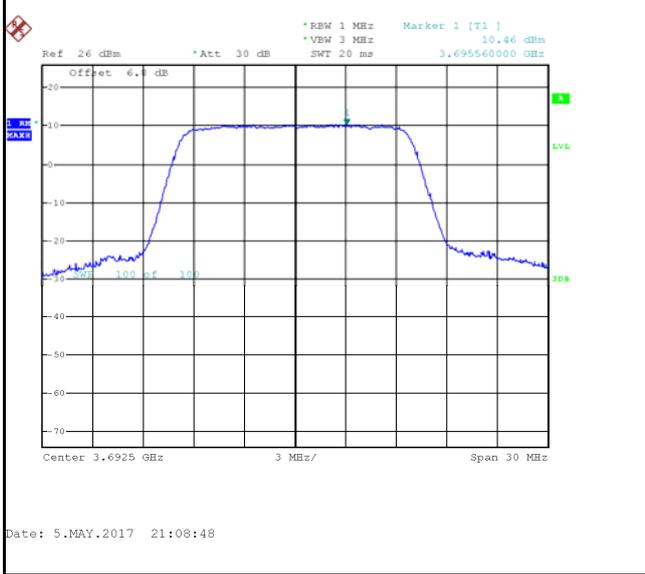
75RB0		75RB0	
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Channel	44165	Channel	44340
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75RB0		-	
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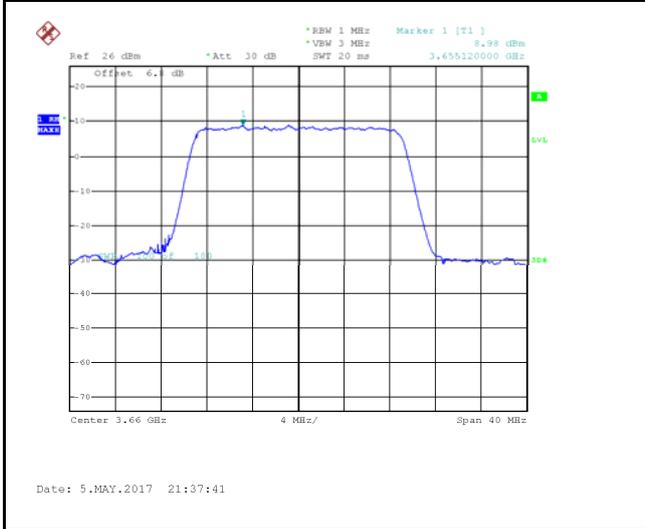
Channel	44515	-	-
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LTE Band 43_20M_QPSK

100RB0	100RB0
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Channel	44190	Channel	44340
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100RB0	-
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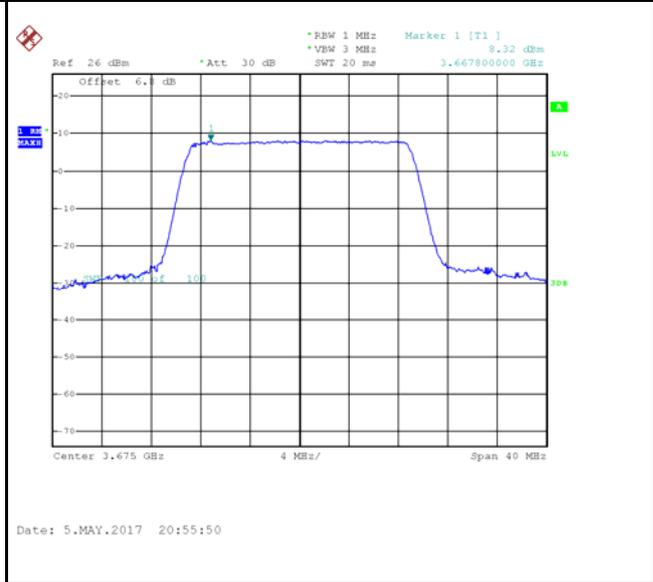
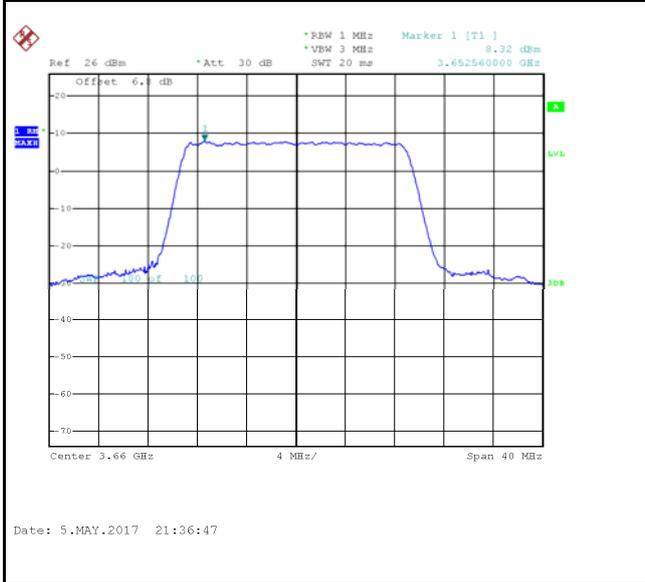
Channel	44490	-	-
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LTE Band 43_20M_16QAM

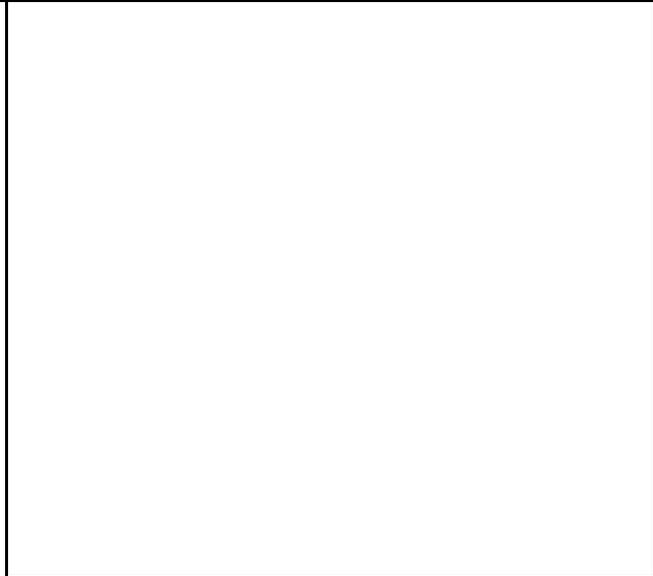
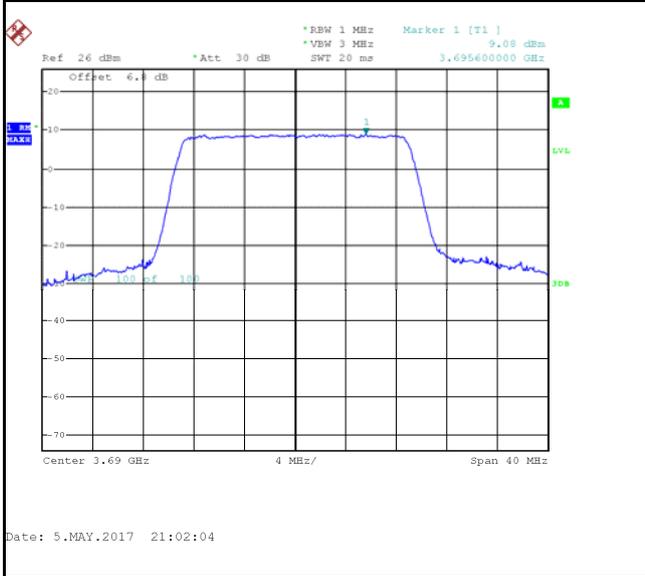
100RB0		100RB0	
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Channel	44190	Channel	44340
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100RB0		-	
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Channel	44490	-	-
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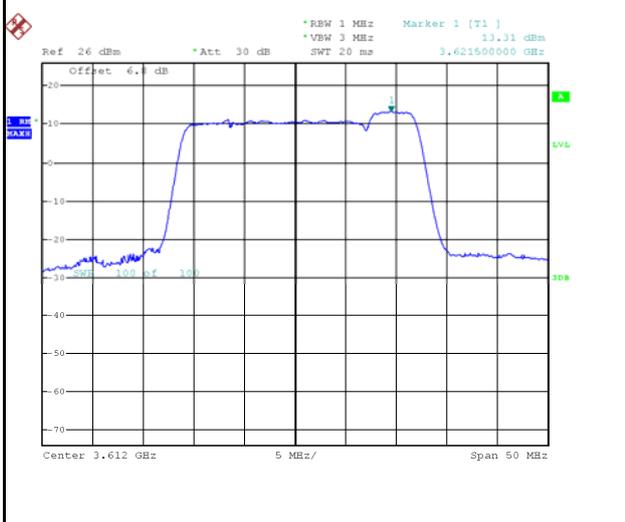


ATTACHMENT N - POWER SPECTRAL DENSITY (CA_43C)

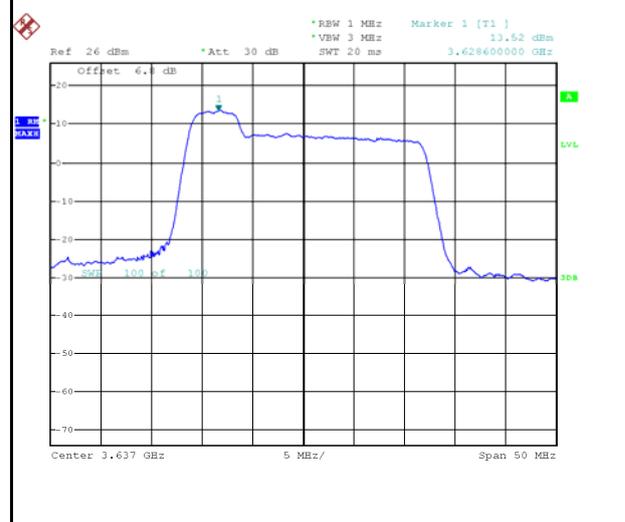
LTE Band 43_20M+5M_QPSK	LTE Band 43_5M+20M_QPSK
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100RB0 & 25RB0	25RB0 & 100RB0
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Channel	43690+43807	Channel	43873+43990
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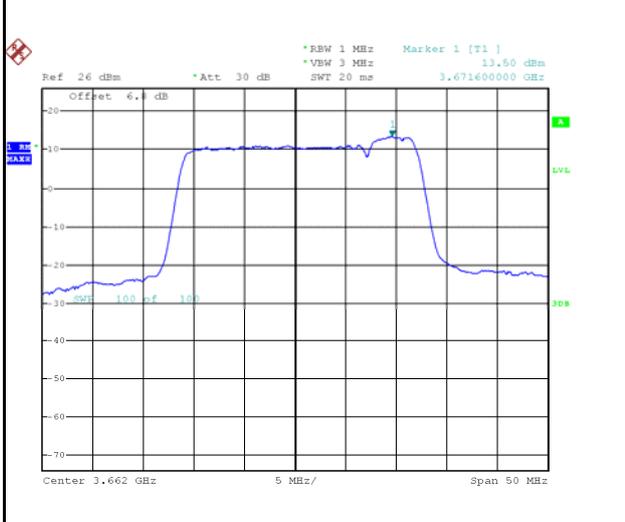


Date: 1.MAY.2017 00:19:06

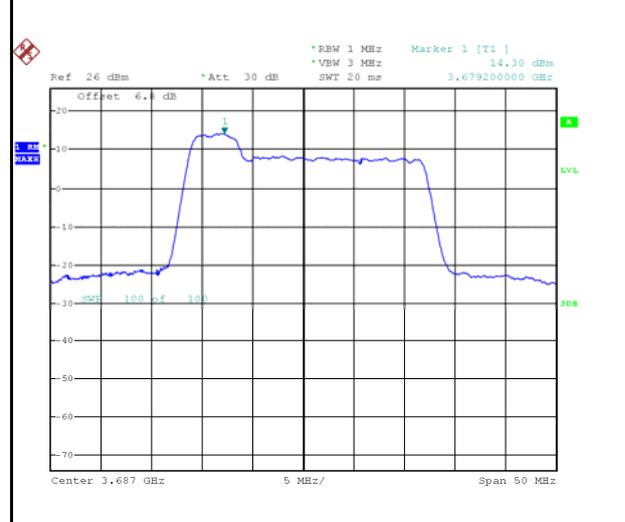


Date: 1.MAY.2017 03:25:58

Channel	44190+44307	Channel	44373+44490
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Date: 1.MAY.2017 00:22:32



Date: 1.MAY.2017 03:29:18

LTE Band 43_20M+10M_QPSK

LTE Band 43_10M+20M_QPSK

100RB0 & 50RB0

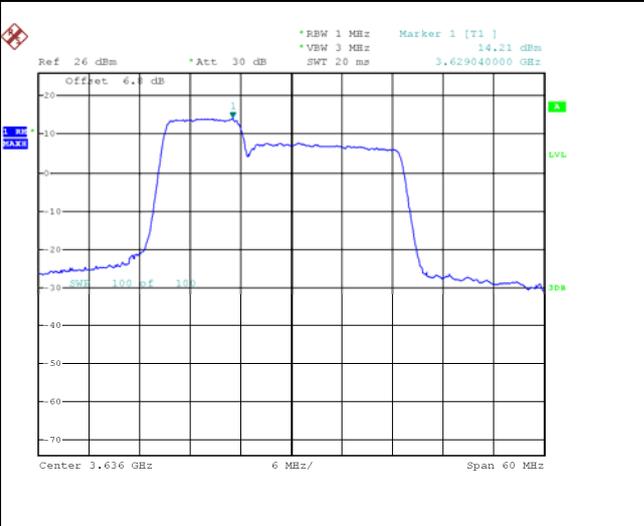
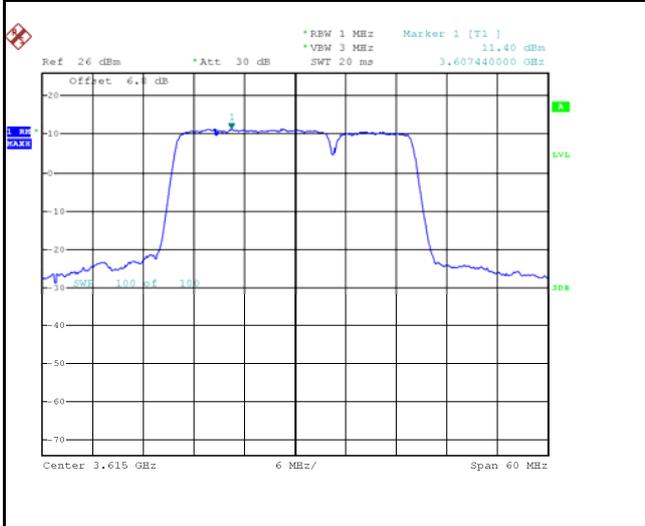
50RB0 & 100RB0

Channel

43690+43834

Channel

43846+43990



Date: 10.MAY.2017 05:09:07

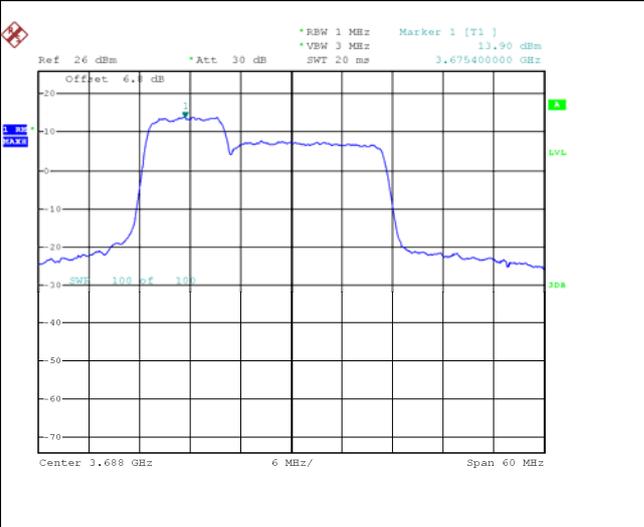
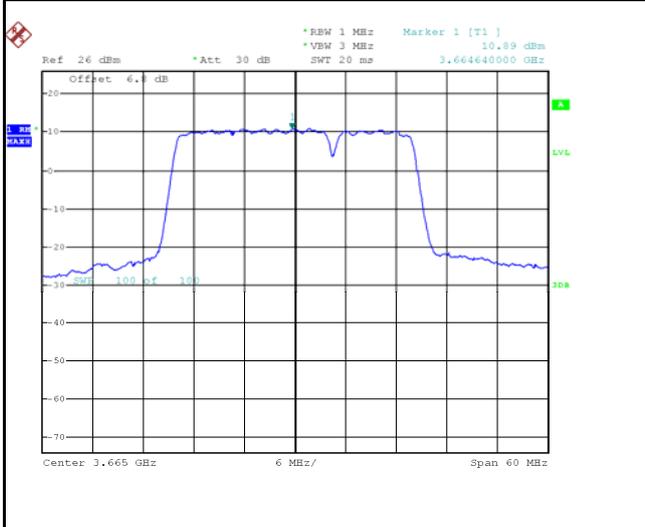
Date: 10.MAY.2017 05:11:52

Channel

44190+44334

Channel

44346+44490



Date: 10.MAY.2017 05:03:19

Date: 10.MAY.2017 05:06:59

LTE Band 43_20M+15M_QPSK		LTE Band 43_15M+20M_QPSK	
100RB0 & 75RB0		75RB0 & 100RB0	
Channel	43690+43861	Channel	43819+43990
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 11.37 dBm *VBW 3 MHz SWT 20 ms 3.614080000 GHz</p> <p>Offset 6.8 dB LVL 30dB</p> <p>Center 3.618 GHz 7 MHz/ Span 70 MHz</p> <p>Date: 10.MAY.2017 03:40:24</p>		<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 12.44 dBm *VBW 3 MHz SWT 20 ms 3.623200000 GHz</p> <p>Offset 6.8 dB LVL 30dB</p> <p>Center 3.633 GHz 7 MHz/ Span 70 MHz</p> <p>Date: 10.MAY.2017 03:17:57</p>	
Channel	44190+44361	Channel	44319+44490
<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 10.84 dBm *VBW 3 MHz SWT 20 ms 3.664900000 GHz</p> <p>Offset 6.8 dB LVL 30dB</p> <p>Center 3.667 GHz 7 MHz/ Span 70 MHz</p> <p>Date: 10.MAY.2017 03:45:53</p>		<p>Ref 26 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 12.19 dBm *VBW 3 MHz SWT 20 ms 3.679080000 GHz</p> <p>Offset 6.8 dB LVL 30dB</p> <p>Center 3.683 GHz 7 MHz/ Span 70 MHz</p> <p>Date: 10.MAY.2017 03:29:51</p>	

LTE Band 43_20M+20M_QPSK

100RB0 & 100RB0

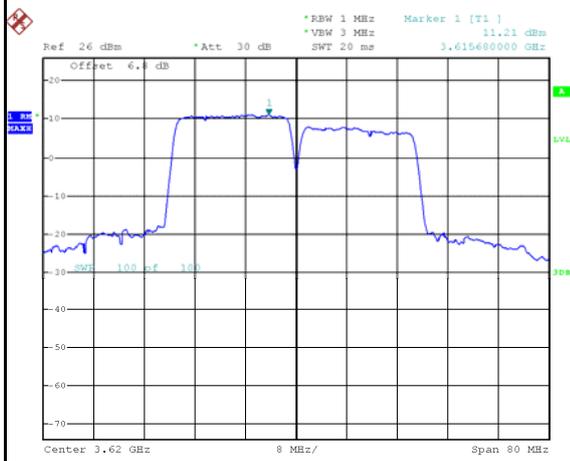
100RB0 & 100RB0

Channel

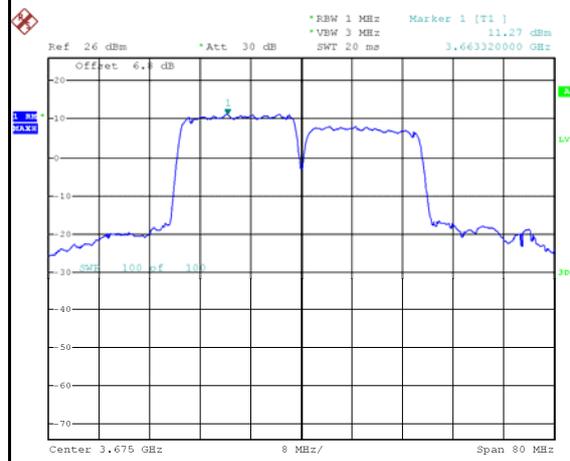
43690+43888

Channel

44240+44438



Date: 1.MAY.2017 02:53:44



Date: 1.MAY.2017 02:56:12

ATTACHMENT O - FREQUENCY STABILITY

Test Mode:	LTE Band 43_CH44340_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.36	0.001458503	2.5
-20	2.88	0.000783673	2.5
-10	4.96	0.00134966	2.5
0	6.28	0.001708844	2.5
10	-3.09	0.000840816	2.5
20	-2.84	0.000772789	2.5
30	3.21	0.000873469	2.5
40	4.53	0.001232653	2.5
50	-5.27	0.001434014	2.5
Max. Deviation (ppm)	6.28	0.001708844	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
108	7.84	0.002133333	2.5
120	6.33	0.001722449	2.5
132	-5.69	0.001548299	2.5
Max. Deviation (ppm)	7.84	0.002133333	2.5

Test Mode:	LTE Band 43_CH44340_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.77	0.00102585	2.5
-20	-3.95	0.00107483	2.5
-10	4.02	0.001093878	2.5
0	5.87	0.001597279	2.5
10	-4.63	0.001259864	2.5
20	2.71	0.000737415	2.5
30	2.89	0.000786395	2.5
40	-4.27	0.001161905	2.5
50	4.68	0.001273469	2.5
Max. Deviation (ppm)	5.87	0.001597279	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
108	6.90	0.001877551	2.5
120	-5.37	0.001461224	2.5
132	4.36	0.001186395	2.5
Max. Deviation (ppm)	6.90	0.001877551	2.5

Test Mode:	LTE Band 43_CH44340_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.66	0.000995918	2.5
-20	6.54	0.001779592	2.5
-10	-5.78	0.001572789	2.5
0	2.36	0.000642177	2.5
10	3.95	0.00107483	2.5
20	-3.80	0.001034014	2.5
30	4.76	0.001295238	2.5
40	-3.94	0.001072109	2.5
50	-6.15	0.001673469	2.5
Max. Deviation (ppm)	6.54	0.001779592	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
108	-5.62	0.001529252	2.5
120	-2.93	0.000797279	2.5
132	6.78	0.001844898	2.5
Max. Deviation (ppm)	6.78	0.001844898	2.5

Test Mode:	LTE Band 43_CH44340_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.56	0.001240816	2.5
-20	-3.28	0.000892517	2.5
-10	4.73	0.001287075	2.5
0	-2.66	0.00072381	2.5
10	-5.43	0.001477551	2.5
20	4.32	0.00117551	2.5
30	4.27	0.001161905	2.5
40	-2.96	0.000805442	2.5
50	5.22	0.001420408	2.5
Max. Deviation (ppm)	5.43	0.001477551	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
108	5.33	0.00145034	2.5
120	4.26	0.001159184	2.5
132	-5.43	0.001477551	2.5
Max. Deviation (ppm)	5.43	0.001477551	2.5