# FCC TEST REPORT

For

Macro Radio Remote Unit

Model Number: ZXSDR R8854 S2600

FCC ID: Q78-R8854S2600

# Report Number : WT178008129

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
		National Digital Electronic Product Testing Center
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# **Test report declaration**

Applicant	: ZTE Corporation
Address	: ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen, Guangdong, China 518057
Manufacturer	: ZTE Corporation
Address	: ZTE Plaza, Hi-tech Park, Nanshan District, Shenzhen, Guangdong, China 518057
EUT Description	: Macro Radio Remote Unit
Model No	: ZXSDR R8854 S2600
Trade mark	: ZTE
Serial Number	: /
FCC ID	: Q78-R8854S2600

Test Standards:

# FCC PART 27

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E (2016) & KDB971168 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 27.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	陈司林	Date:	Jan.16, 2018
_	(Chen Silin 陈司林)		
Checked by:	林主钢	Date:	Jan.16, 2018
	(Lin Yixiang 林奕翔) す知入`		
Approved by:	FRON	Date:	Jan.16, 2018
	(Lin Bin 林斌)		

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TEST Results Summary

Table 1 Test Results Summary

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 2.1046 , §27.50	Transmitter output Power	Compliant
§ 2.1091 , §1.1037	RF Exposure	Compliant
§ 2.1047	Modulation Characteristic	Compliant
§ 2.1053, §27.53	Spurious Radiated Emissions	Compliant
§ 2.1051, §27.53	Spurious Emissions AT Antenna Terminals	Compliant
§ 2.1049	Occupied Bandwidth	Compliant
§ 2.1051, §27.53	Band Edge	Compliant
§2.1055, §27.54	Frequency stability	Compliant

CFR 47 (FCC) Part 27.

Remark: "N/A" means "Not applicable."

The tests documented in this report were performed in accordance with ANSI/TIA-603-E (2016) & KDB971168, FCC CFR 47 Part 2, and Part 27.

# **1. GENERAL INFORMATION**

### **1.1.Report information**

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The samples mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

## **1.2. Laboratory Accreditation and Relationship to Customer**

The testing report were performed by the Shenzhen Academy of Metrology and The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 582918.

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1 11177A-2.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

# 1.3. Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following: Radiated Emission  $30MHz \sim 1000MHz = 4.5dB$  $1GHz \sim 26.5GHz = 4.6dB$ 

# 2. PRODUCT DESCRIPTION

### 2.1. EUT Description

The ZTE Corporation's product, model number: ZXSDR R8854 S2600 or the "EUT" as referred to in this report is a Macro Radio Remote Unit.

### **Technical specification:**

Size: 415 mm x 296 mm x 104 mm (HxWxD) Input voltage: -37V~-60V Frequency range: 2620MHz~2690 MHz (Bottom frequency is about 2622.5MHz, Middle frequency is about 2655MHz, Top frequency is about 2687.5MHz). Max RF output power: 46dBm Gain of the antenna: 18dBi Appearance of EUT:



FIGURE 1 APPEARANCE OF ZXSDR R8854 S2600

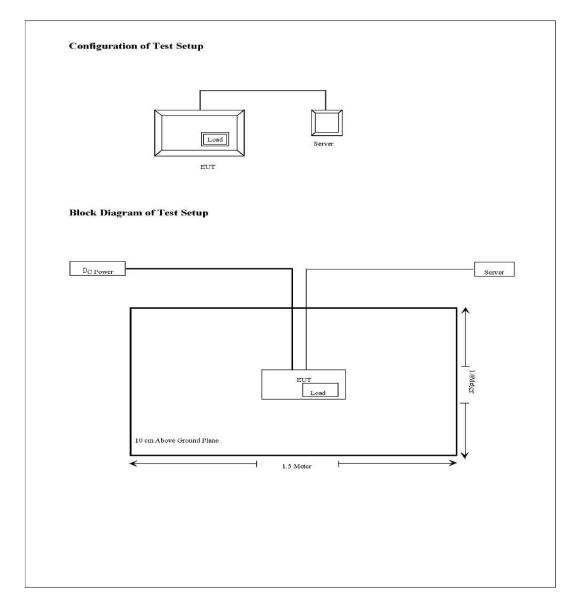
## 2.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **Q78-R8854S2600** filing to comply with FCC PART 27.

# 2.3. Operating Condition of EUT

### Justification

The EUT was configured for testing according to ANSI/TIA-603-E (2016). The final qualification test was performed with EUT operating at normal mode. Equipment Modifications SMQ has not done any modification on the EUT. Date of test: Nov.1, 2017 - Nov.16, 2017 Date of EUT Receive: Nov.1, 2017



# 3. TEST RESULTS

# 3.1.RF Power Output

3.1.1.Applicable Standard: FCC §2.1046, §27.50

According to FCC §2.1046 &27.50, the ERP (equivalent radiated power) must not exceed 1000 Watts.

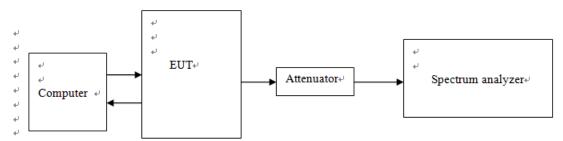
Note: ERP= Max output Power+ Antenna gain-Cable loss-2.15

3.1.2.Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal & Spectrum Analyzer	FSW26	SB12724/01	2017.6.19	2018.6.18
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2017.03.15	2018.03.15

\*statement of traceability: SMQ attests that all calibration has been performed per the A2LA requirements, traceable to NIM.

### 3.1.3.Test Procedure



The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. External attenuation Loss is 40dB, Cable Loss is about 2dB.

### 3.1.4.Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

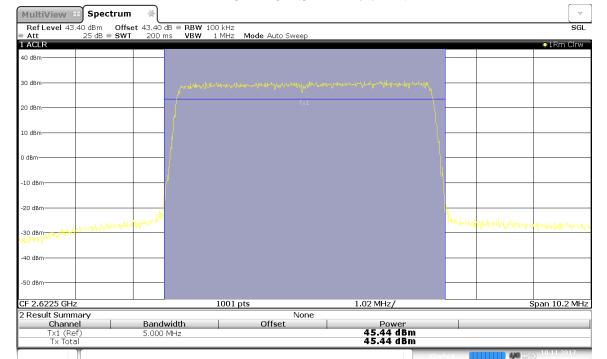
- 3.1.5.Test Result: Pass
- 3.1.6.Test Mode: Transmitting LTE

### 3.1.7.Test Data:

Single Carrier:

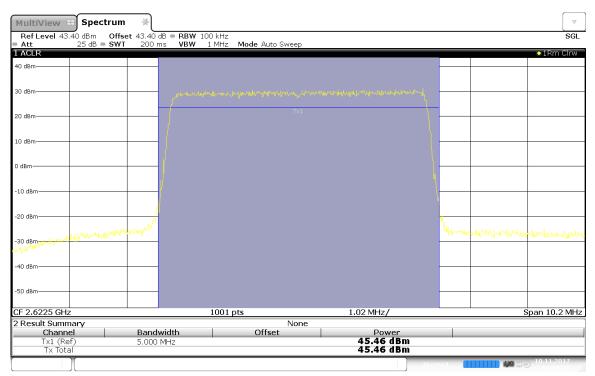
Center Freq. (MHz)	Port	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
2622.5	1	45.44	18	2	2.15	849.18
	2	45.46	18	2	2.15	853.10
	3	45.44	18	2	2.15	849.18
	4	45.44	18	2	2.15	849.18
2655	1	45.14	18	2	2.15	792.50
	2	45.22	18	2	2.15	807.24
	3	45.2	18	2	2.15	803.53
	4	45.19	18	2	2.15	801.68
2678.5	1	45.41	18	2	2.15	843.33
	2	45.41	18	2	2.15	843.33
	3	45.4	18	2	2.15	841.40
	4	45.41	18	2	2.15	843.33

### Channel Bandwidth :5M

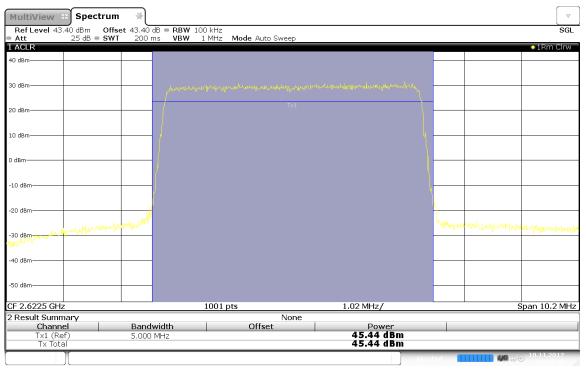


### 5M -2622.5MHz-Port 1~4:

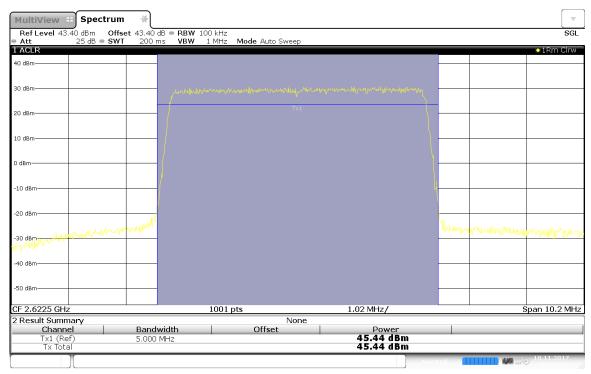
16:39:23 10.11.2017



### 16:39:35 10.11.2017

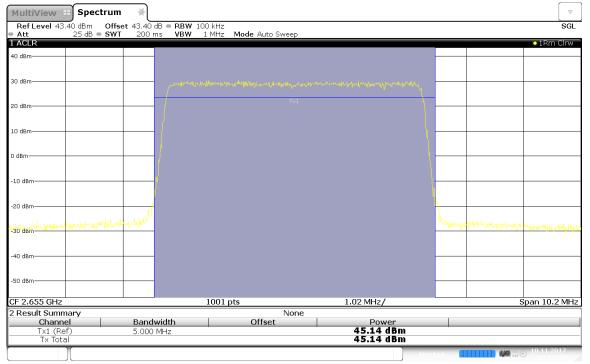


16:39:47 10.11.2017

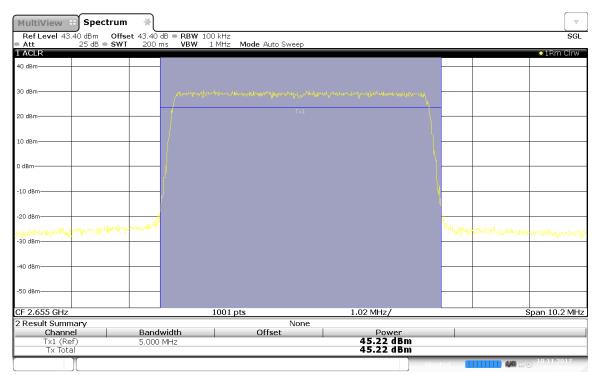


16:39:59 10.11.2017

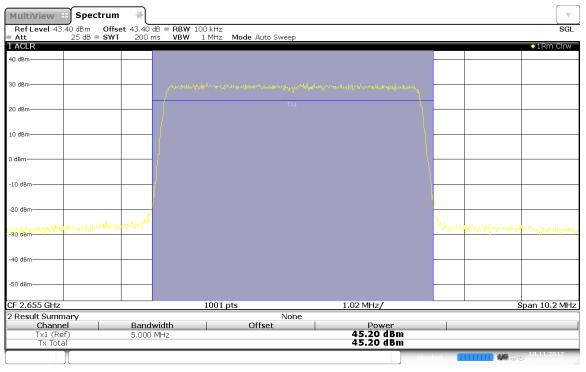




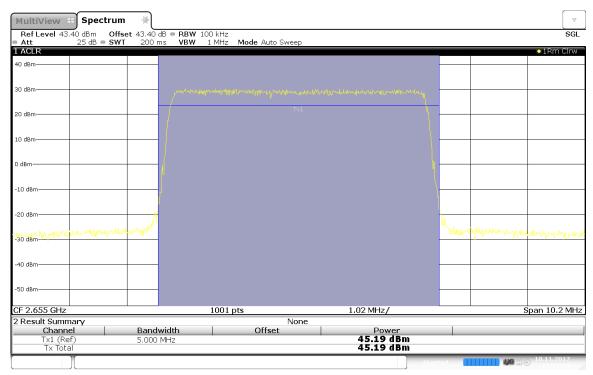
17:11:04 10.11.2017



### 17:11:16 10.11.2017

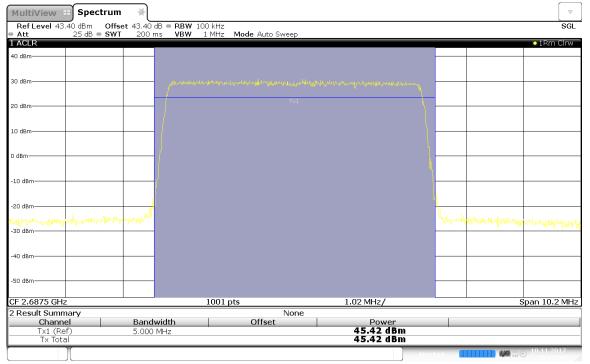


17:11:28 10.11.2017

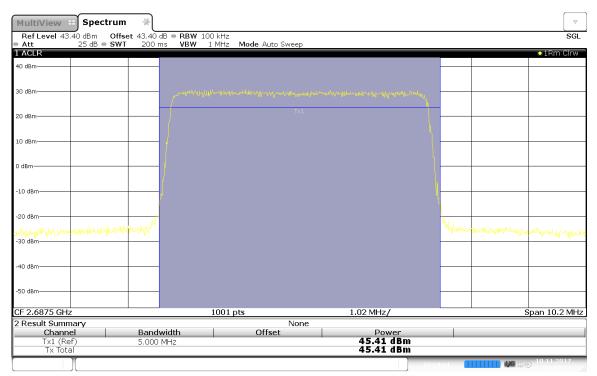


17:11:40 10.11.2017

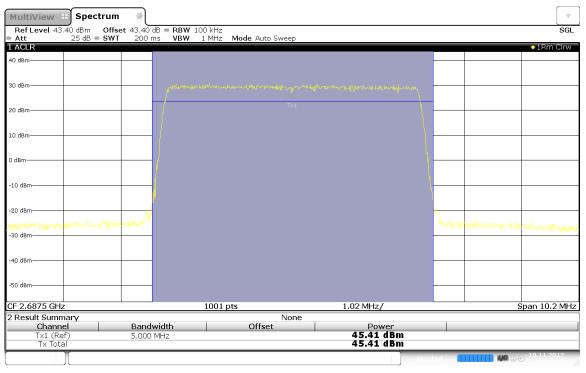




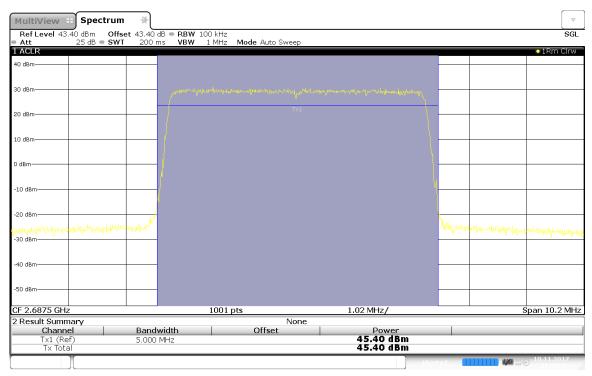
21:47:30 10.11.2017



### 21:47:42 10.11.2017



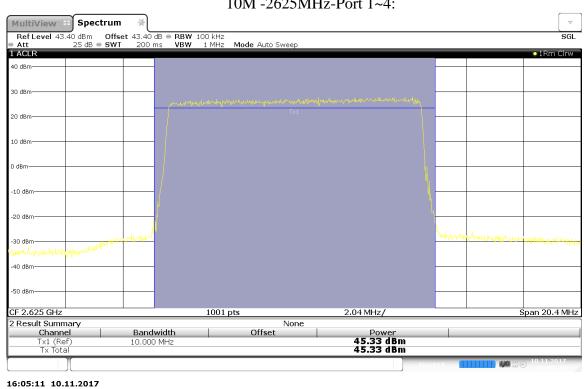
21:47:54 10.11.2017



21:48:05 10.11.2017

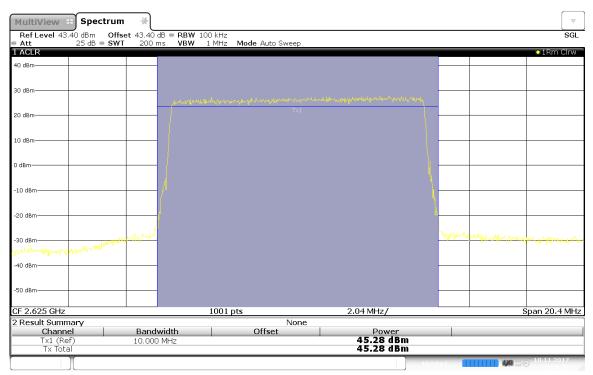
Center Freq. (MHz)	Port	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
2625	1	45.33	18	2	2.15	827.94
	2	45.3	18	2	2.15	822.24
	3	45.28	18	2	2.15	818.46
	4	45.28	18	2	2.15	818.46
2655	1	45.32	18	2	2.15	826.04
	2	45.27	18	2	2.15	816.58
	3	45.24	18	2	2.15	810.96
	4	45.29	18	2	2.15	820.35
2685	1	45.36	18	2	2.1`5	833.68
	2	45.25	18	2	2.15	812.83
	3	45.16	18	2	2.15	796.16
	4	45.18	18	2	2.15	799.83

### 10M -2625MHz-Port 1~4:

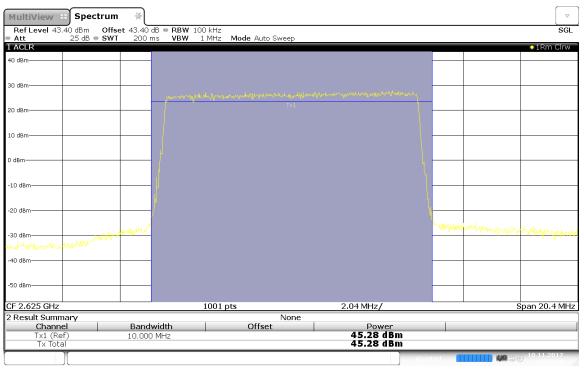


Result Summary Channel Tx1 (Ref) Tx Total	Bandwidth 10.000 MHz	Non Offset	e Power 45.30 dBm 45.30 dBm			
- 2.625 GHz		1001 pts	2.04 MHz/			Span 20.4 Mł
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D dBm						
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l dBm	down		halled have been a supported and the second			
Att 25 dB SW1		I MHz Mode Auto Sweep				01Rm Cln
Ref Level 43.40 dBm Offs	et 43.40 dB 🖷 RBV	1 100 LU-				SG

16:05:23 10.11.2017



### 16:05:35 10.11.2017



16:05:47 10.11.2017

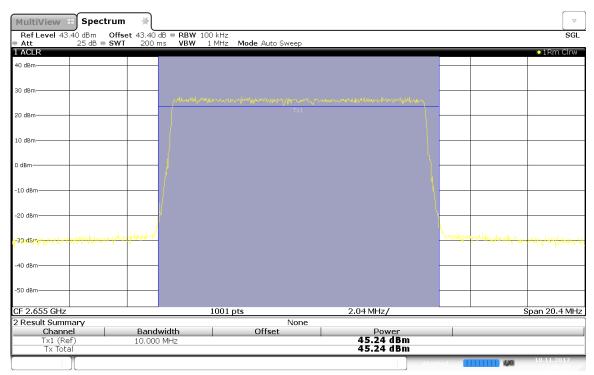
### $\nabla$ Spectrum MultiView 🕀 \* Ref Level 43.40 dBm Offset 43.40 dB RBW 100 kHz Att 25 dB SWT 200 ms VBW 1 MHz SGL Mode Auto Sweep 1 ACLR ●1Rm Clrw 40 dBm 30 dBm 20 dBm 10 dBm 0 dBm· -10 dBm -20 dBm 30 dBm 40 dBr -50 dBm· CF 2.655 GHz 1001 pts 2.04 MHz/ Span 20.4 MHz 2 Result Summary None Bandwidth 10.000 MHz Channel Tx1 (Ref) Tx Total Offset Power 45.32 dBm 45.32 dBm 44 13:36:36 10.11.2017 $\nabla$



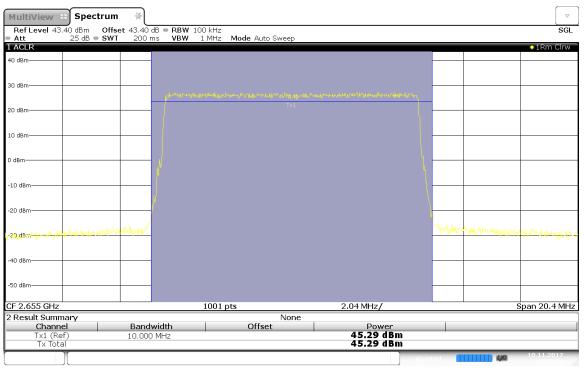
MultiView 🕀 Spectrum ₩ 
 Ref Level
 43.40 dBm
 Offset
 43.40 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 200 ms
 VBW
 1 MHz
 SGL Mode Auto Sweep Att
 1 ACLR o1Rm Clrw 40 dBm 30 dBm 20 dBr 10 dBm 0 dBm -10 dBm -20 dBm 3C dBn 40 dBn -50 dBm· CF 2.655 GHz 1001 pts 2.04 MHz/ Span 20.4 MHz 2 Result Summary None Power 45.27 dBm 45.27 dBm Bandwidth Offset Channel 10.000 MHz Tx1 (Ref Tx Tota 

13:36:48 10.11.2017

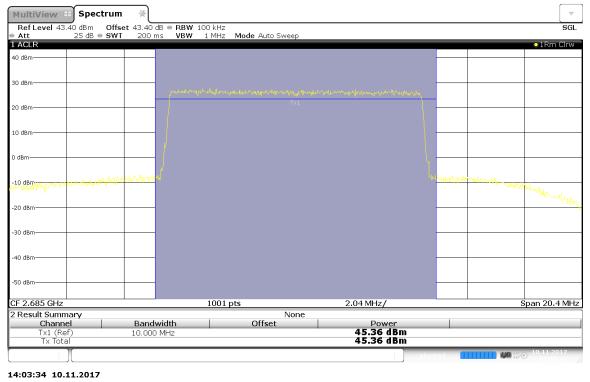


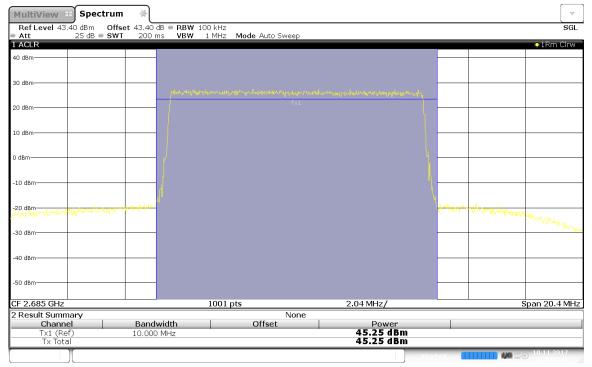
### 13:37:00 10.11.2017



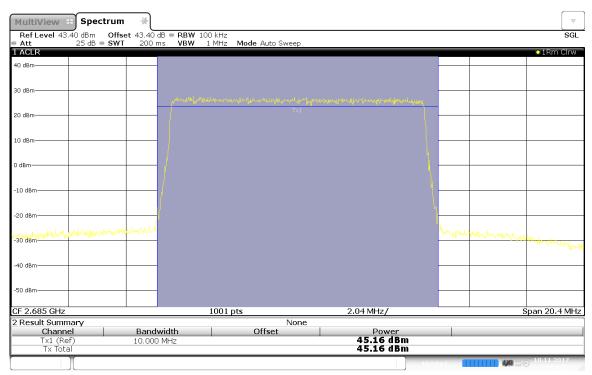
13:37:11 10.11.2017

### 10M -2685MHz-Port 1~4:

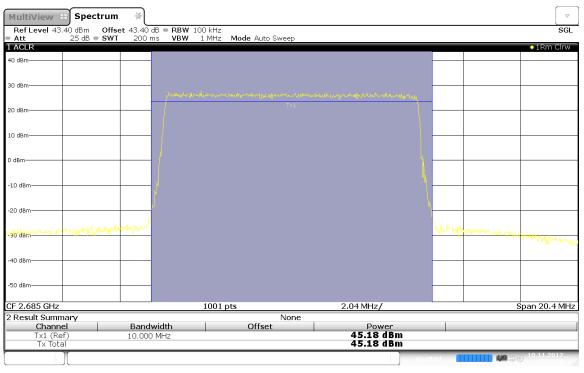




14:03:46 10.11.2017



### 14:03:58 10.11.2017

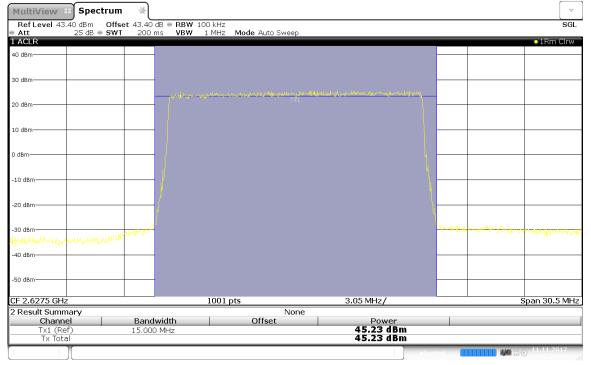


14:04:10 10.11.2017

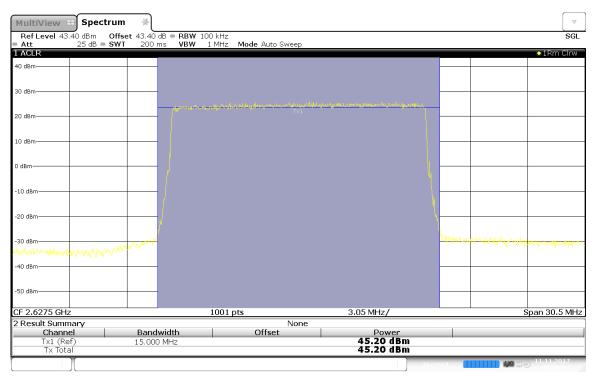
Center Freq. (MHz)	Port	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
2627.5	1	45.23	18	2	2.15	809.10
	2	45.2	18	2	2.15	803.53
	3	45.28	18	2	2.15	818.46
	4	45.3	18	2	2.15	822.24
2655	1	45.35	18	2	2.15	831.76
	2	45.35	18	2	2.15	831.76
	3	45.31	18	2	2.15	824.14
	4	45.33	18	2	2.15	827.94
2682.5	1	45.18	18	2	2.1`5	799.83
	2	45.26	18	2	2.15	814.70
	3	45.19	18	2	2.15	801.68
	4	45.16	18	2	2.15	796.16

### Channel Bandwidth :15M

### 15M -2627.5MHz-Port 1~4:



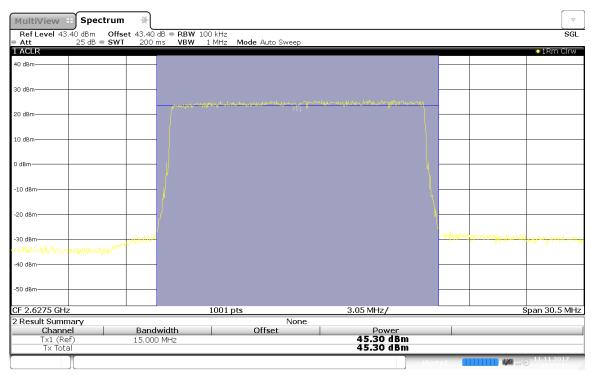
09:20:40 11.11.2017



### 09:20:52 11.11.2017

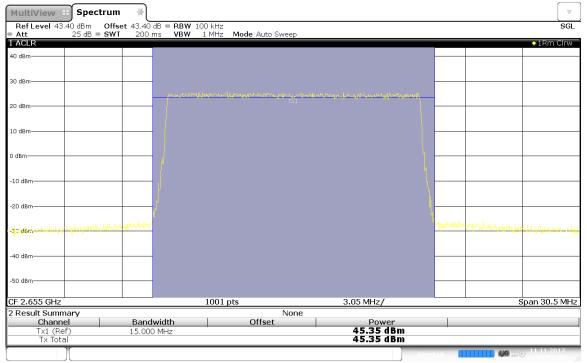
MultiView 🕀 Spectrum	¥				$\bigtriangledown$
Ref Level 43.40 dBm Offse					SGL
● Att 25 dB ● SWT 1 ACLR	200 ms VBW	1 MHz Mode Auto Sweep			⊙1Rm Clrw
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30 dBm					
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20 dBm					
10 dBm					
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-40 dBm					
-+o ubii					
-50 dBm					
-50 0811					
CF 2.6275 GHz		1001 pts	3.05 MHz/		Span 30.5 MHz
2 Result Summary		None			
Channel	Bandwidth	Offset	Power 45.28 dBm		
Tx1 (Ref) Tx Total	15.000 MHz		45.28 dBm 45.28 dBm		
					11.11.2017

09:21:04 11.11.2017

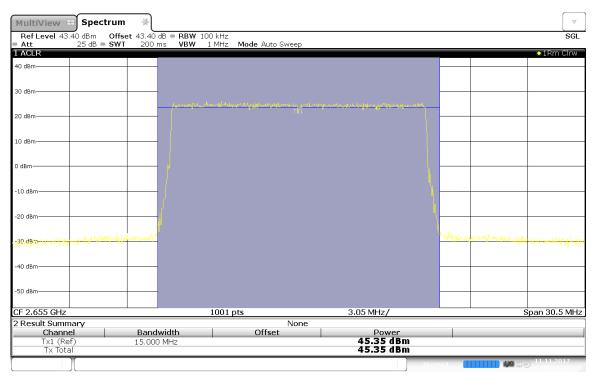


09:21:16 11.11.2017

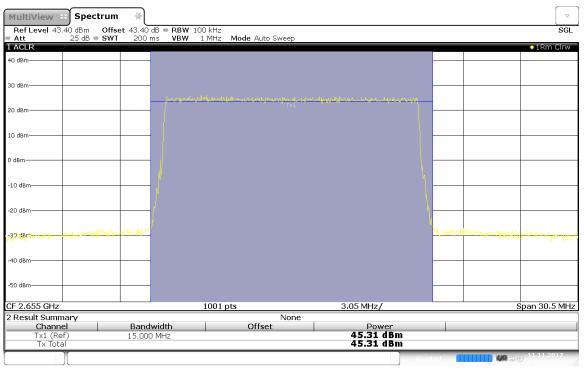




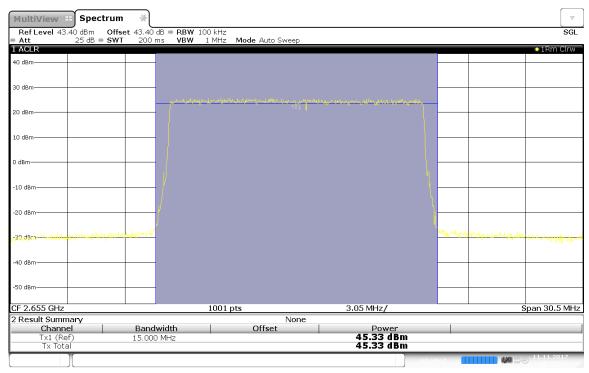
00:31:31 11.11.2017



### 00:31:43 11.11.2017

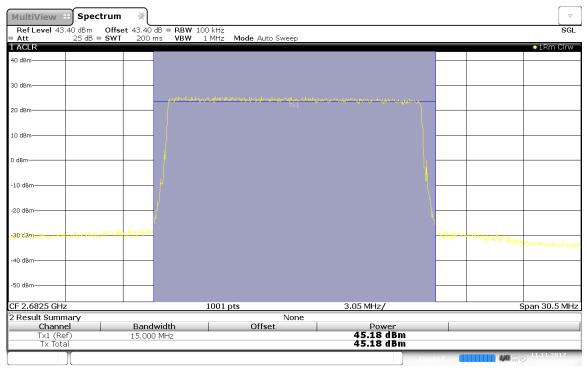


00:31:55 11.11.2017

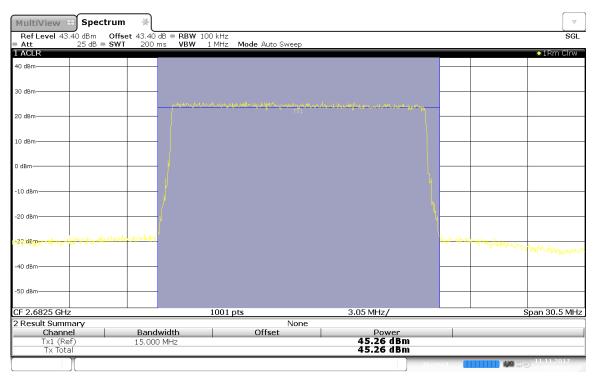


00:32:06 11.11.2017

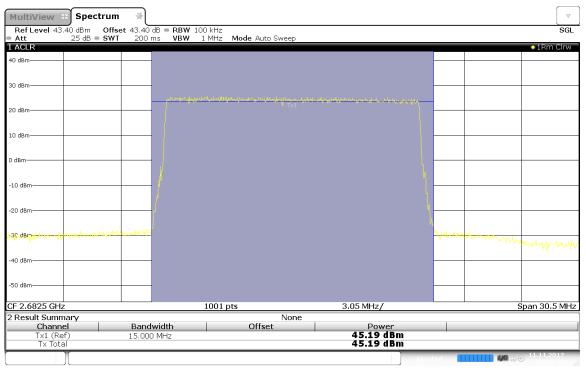




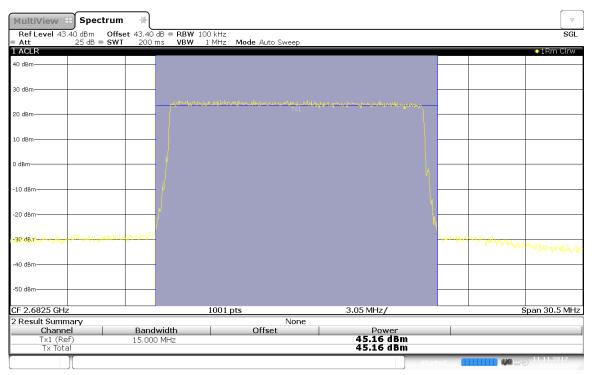
00:04:00 11.11.2017



### 00:04:12 11.11.2017



00:04:24 11.11.2017

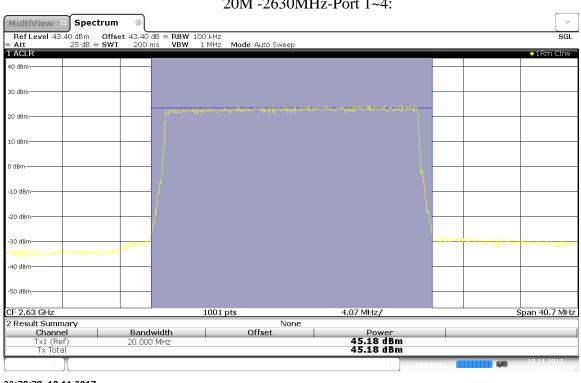


00:04:36 11.11.2017

Channel Bandwidth :20M

		1				1
Center Freq. (MHz)	Port	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
2630	1	45.18	18	2	2.15	799.83
	2	45.18	18	2	2.15	799.83
	3	45.19	18	2	2.15	801.68
	4	45.18	18	2	2.15	799.83
2655	1	45.42	18	2	2.15	845.28
	2	45.43	18	2	2.15	847.23
	3	45.38	18	2	2.15	837.53
	4	45.38	18	2	2.15	837.53
2680	1	45.22	18	2	2.1`5	807.24
	2	45.22	18	2	2.15	807.24
	3	45.25	18	2	2.15	812.83
	4	45.2	18	2	2.15	803.53

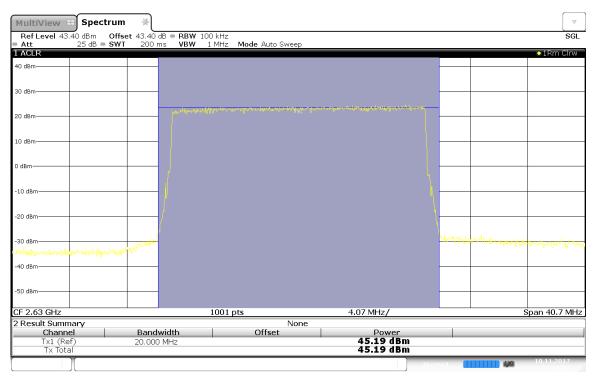
### 20M -2630MHz-Port 1~4:



# 22:30:38 10.11.2017

MultiView 🕀 Spect	rum 🔺					
	Offset 43.40 dB . RBV					SGL
Att 25 dB 1 ACLR	SWT 200 ms VBV	V 1 MHz Mode Auto Sweep				0 1 Day Class
						●1Rm Clrw
40 dBm						
30 dBm						
		and the taxes of the state of the	- main and a second			
20 dBm						
10 dBm						
10 000						
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-30 dBm				La Bira a starte	un da	
and have been and	www.slipheture.				and another second second and	halanarradapar
-40 dBm						
-50 dBm						
CF 2.63 GHz		1001 pts	4.07 MHz/		5	pan 40.7 MHz
2 Result Summary	D 1 1 1	None				
Channel Tx1 (Ref) Tx Total	Bandwidth 20.000 MHz	Offset	45.18 dBm 45.18 dBm 45.18 dBm			
				\borted		10.11.2017

22:30:50 10.11.2017



### 22:31:02 10.11.2017

MultiView 🗄 Spectrum	*				$\bigtriangledown$
Ref Level 43.40 dBm Offse Att 25 dB • SWT	et 43.40 dB   RBW 200 ms VBW	100 kHz 1 MHz Mode Auto Sweep			SGL
1 ACLR	2001113 0011	THINZ HINGE Auto oweep			●1Rm Clrw
40 dBm					
30 dBm					
20 dBm	Magnaliana a	าสัญญาณาสัญญาญการ () A	بالمتحدة المتحدي والأوسا ومعاني المراوي المراوي المراجع		
10 dBm					
0 dBm					
-10 dBm					
-20 dBm					
-30 dBm	Manager and			Letterstation and the market of the	and the market of the second second
-40 dBm					
-50 dBm					
CF 2.63 GHz		1001 pts	4.07 MHz/		Span 40.7 MHz
2 Result Summary		None			
Channel Tx1 (Ref) Tx Total	Bandwidth 20.000 MHz	Offset	Power 45.18 dBm 45.18 dBm		
			Al	borted 🚺 🥬	0 10.11.2017

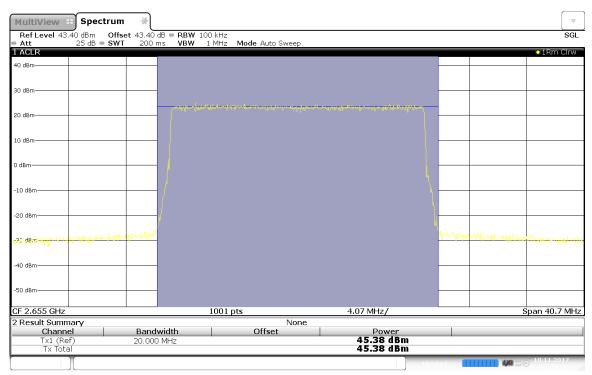
22:31:14 10.11.2017

# 20M -2655MHz-Port 1~4:

MultiView 🕀 Spect	trum 🛞						$\bigtriangledown$
RefLevel 43.40 dBm Att 25 dB	Offset 43.40 dB = RBW 1 SWT 200 ms VBW	.00 kHz 1 MHz <b>Mode</b> Auto Sweep				5	SGL
1 ACLR	3141 200 HIS VB14	TIMITZ MODE ALLO SWEEP				01Rm Cl	rw
40 dBm							_
30 dBm							
20 dBm		ﻪ دېلۇلۇ ئۈكۈمۈر <sub>(1</sub> 11-11-11-11-11-11-11-11-11-11-11-11-11	ا ایرون ورورهای وروی میتوان بیم وسوال را او موروان موجوان مرزوان				
10 dBm							
) dBm	· _ /						
				\ .			
10 dBm	P						
	1						
20 dBm	/						
agi gan dan palan si na sina dan si sa si	homenhoren and			Wyrnelly	Workston and and a	والمحمد	hin.
40 dBm							
50 dBm							
F 2.655 GHz		1001 pts	4.07 MHz/		S	pan 40.7 N	<u>1H</u> 2
2 Result Summary Channel	Bandwidth	Offset None	Power				
Tx1 (Ref)	20.000 MHz	Oliset	45.42 dBm				-
Tx Total			45.42 dBm				_
				borted		10.11.2017	
2:59:26 10.11.2017							

MultiView 🕀 S	pectrum	₩								$\nabla$
Ref Level 43.40 dB										SGL
Att 25- 1 ACLR	dB 🖷 SWT	200 m	S ARAA		lode Auto Swee	)				●1Rm Clrw
40 dBm										
30 dBm										
20 dBm				a the state of the	ېلې خېرې خېږې لې وې.	ىلىمىدەرىرىكى مەر مۇرى <u>مۇ</u> مۇر	Are and the first survey starts	<u></u>		
10 dBm										
0 dBm										
-10 dBm								\		
-20 dBm		y						\		
المحمد (asm محمد) المعادية (asm محمد)		human						howard	Marchanker which where	the stand of the s
-40 dBm										
-50 dBm										
CF 2.655 GHz				1001 pts	;		4.07 MHz/		9	pan 40.7 MHz
2 Result Summary					No	ne				
Tx1 (Ref) Tx Total		Bandw 20.000			Offset		Power 45.43 dBm 45.43 dBm			
								Aborted	EXT A	10.11.2017

22:59:38 10.11.2017

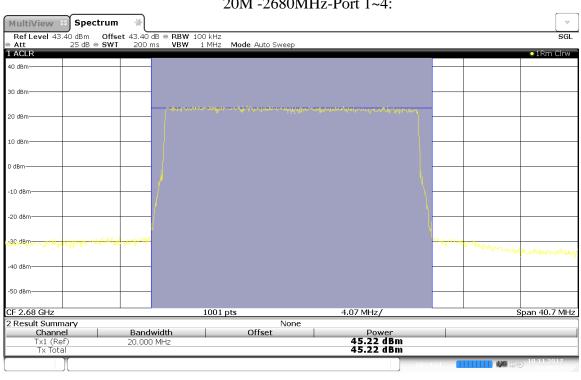


### 22:59:50 10.11.2017

MultiView 🕀 Spectrum	₩				
Ref Level 43.40 dBm Offse Att 25 dB SWT		100 kHz 1 MHz <b>Mode</b> Auto Sweep			SGL
1 ACLR	200 IIIS VBW	TMINZ MODe Auto Sweep			●1Rm Clrw
40 dBm					
30 dBm					
20 dBm		.تكانيات ومريد مي من مي			
10 dBm					
0 dBm				\	
-10 dBm					
-20 dBm	/				
-30/48Hillight and and a start and	muy huly			Journa many	hardfeld marcologith, some
-40 dBm					
-50 dBm					
CF 2.655 GHz		1001 pts	4.07 MHz/		Span 40.7 MHz
2 Result Summary		None			
Channel Tx1 (Ref) Tx Total	Bandwidth 20.000 MHz	Offset	Power 45.38 dBm 45.38 dBm		
				Vborted	

23:00:02 10.11.2017

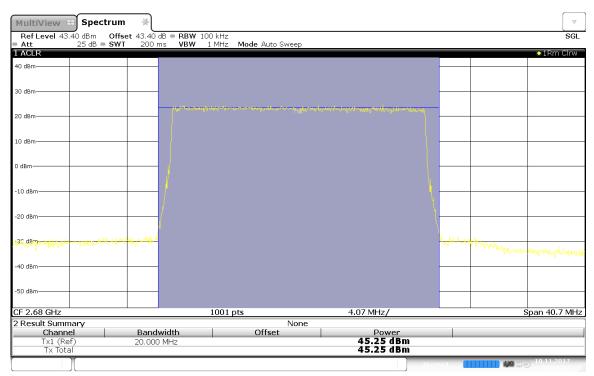
### 20M -2680MHz-Port 1~4:



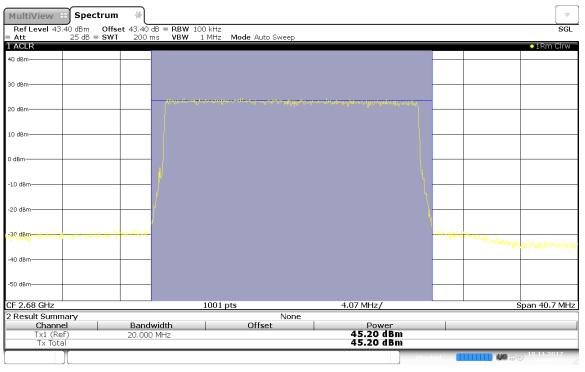
### 23:31:00 10.11.2017

MultiView 🕀 Spectrum					
Ref Level 43.40 dBm Offso Att 25 dB SWT		100 kHz 1 MHz <b>Mode</b> Auto Sweep			SG
ACLR	200 MIS VBYY	TIMITZ MODE Auto Sweep			●1Rm Clrw
+0 dBm					
30 dBm					
20 dBm			ومحافظتها ويهمنهم ماحيواه بالإلامينا محج فحلال ماكر ما	1	
LO dBm					
) dBm					
10 dBm					
20 dBm	(				
<sub>B</sub> Q,dBm <del>alaramaticative/~%deev/~</del>	- aphanalatural			aligner and and a	Multimunaning
40 dBm					
50 dBm					
F 2.68 GHz		1001 pts	4.07 MHz/		Span 40.7 MH
Result Summary		None			
Channel Tx1 (Ref) Tx Total	Bandwidth 20.000 MHz	Offset	Power 45.22 dBm 45.22 dBm		
The second secon				Aborted	10.11.2017

23:31:12 10.11.2017



### 23:31:24 10.11.2017



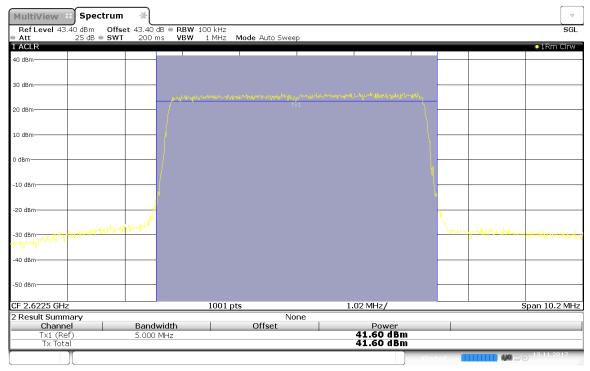
23:31:36 10.11.2017

### Double Carrier:

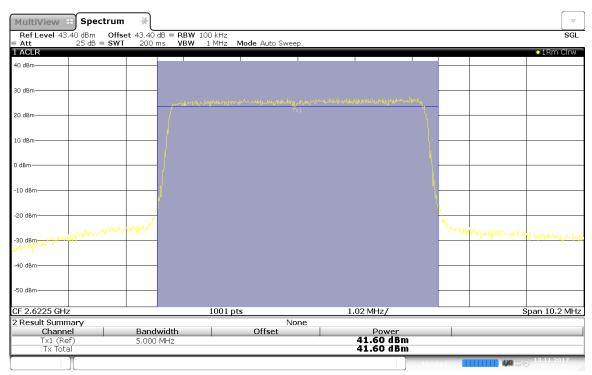
### Channel Bandwidth :5M+5M(2622.5MHz & 2657.5MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		41.6		42.72	18	2	2.15	804.69
2	2622.5	41.6	2657.5	42.75	18	2	2.15	807.84
3	2022.5	41.59	2007.0	42.78	18	2	2.15	810.20
4		41.58		42.76	18	2	2.15	807.28

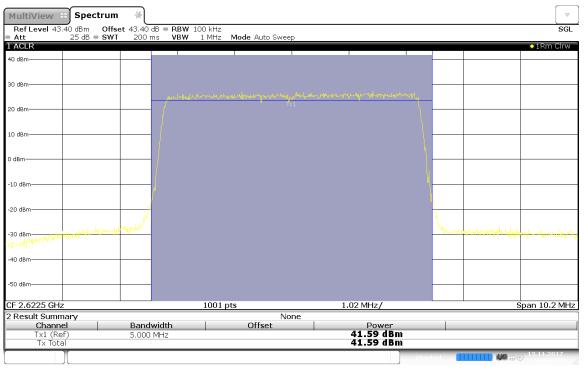
# 5M+5M - carry1-2622.5MHz-Port 1~4:



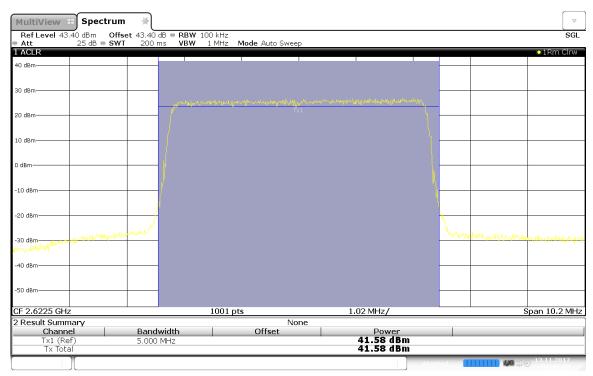
08:33:36 13.11.2017



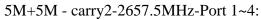
#### 08:34:00 13.11.2017

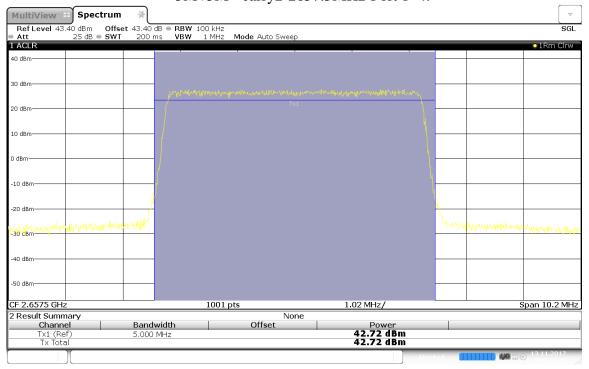


08:34:24 13.11.2017

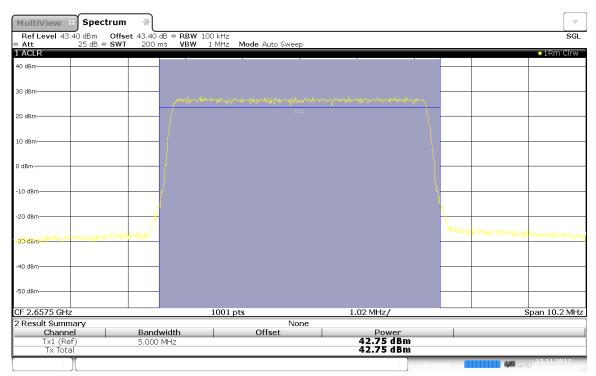


08:34:48 13.11.2017

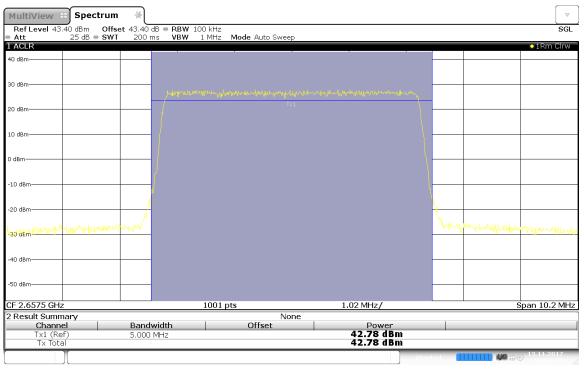




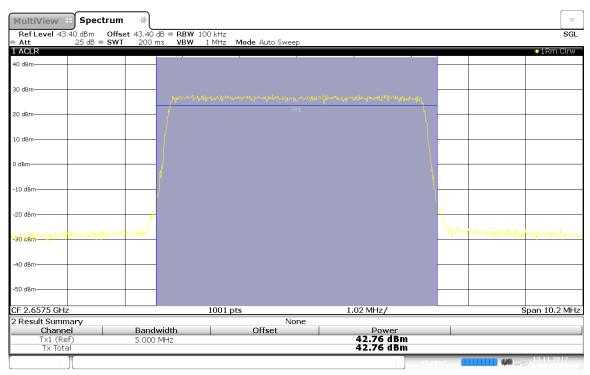
08:33:48 13.11.2017



#### 08:34:12 13.11.2017



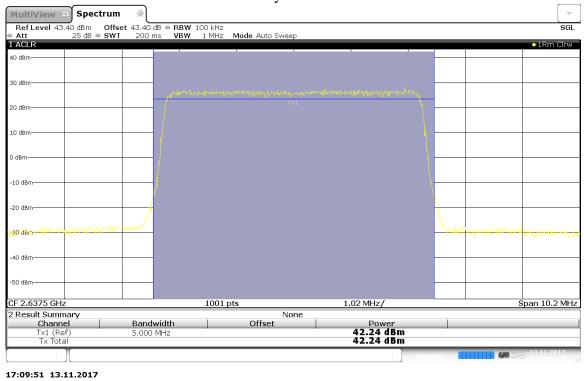
08:34:36 13.11.2017



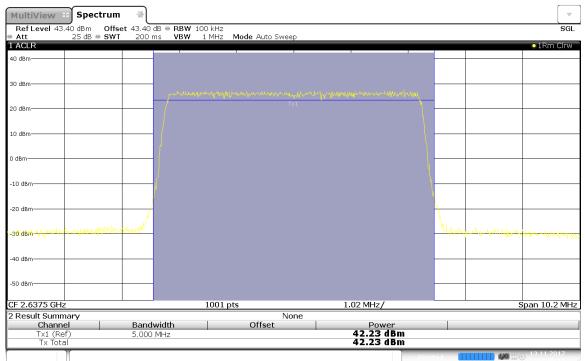
08:35:00 13.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna				
1		42.24		42.11	18	2	2.15	800.90				
2	2637.5	42.23	2672.5	42.11	18	2	2.15	799.97				
3	2037.5	42.23	2012.5	42.06	18	2	2.15	795.45				
4	]	42.12		42	18	2	2.15	779.96				

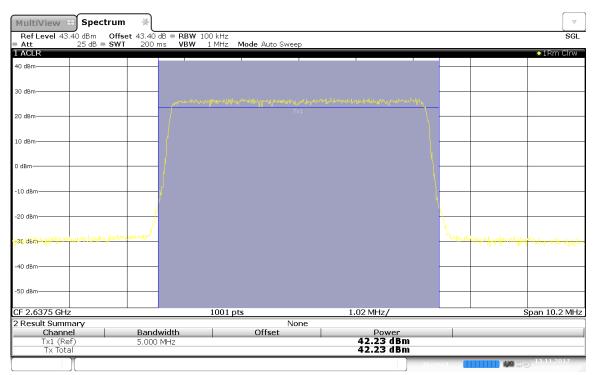
### Channel Bandwidth :5M+5M(2637.5MHz & 2672.5MHz)



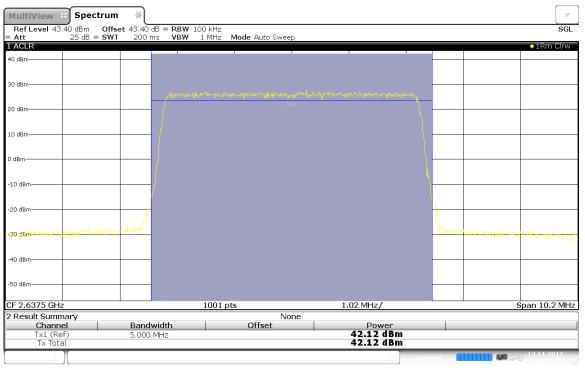
## 5M+5M - carry1-2637.5MHz-Port 1~4:



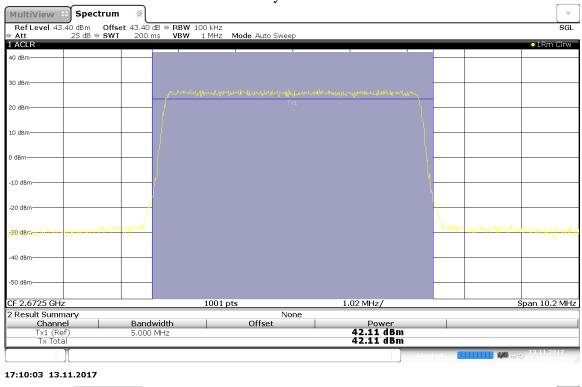
17:10:15 13.11.2017

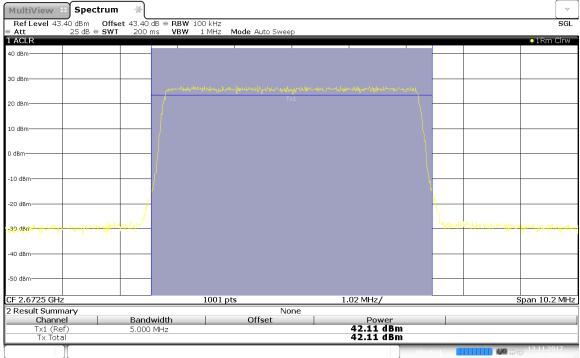


### 17:10:39 13.11.2017



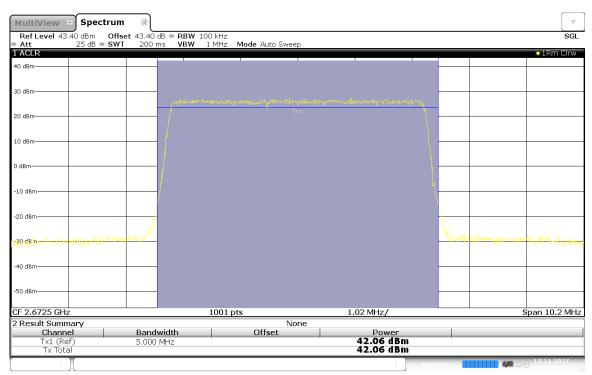
17:11:03 13.11.2017



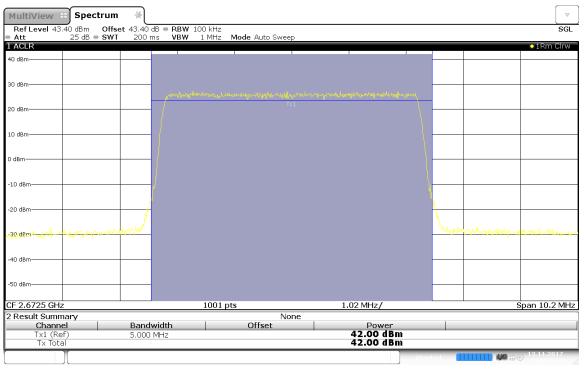


17:10:27 13.11.2017

## 5M+5M - carry2-2672.5MHz-Port 1~4:



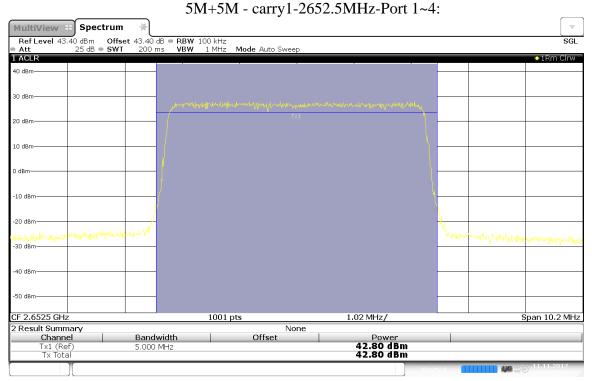
### 17:10:51 13.11.2017



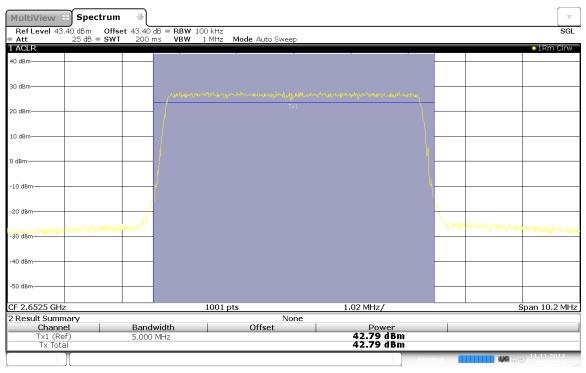
17:11:15 13.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.8		41.85	18	2	2.15	833.92
2	2652.5	42.79	2687.5	41.83	18	2	2.15	831.15
3	2002.0	42.79	2007.5	41.84	18	2	2.15	832.00
4		42.77		41.87	18	2	2.15	832.45

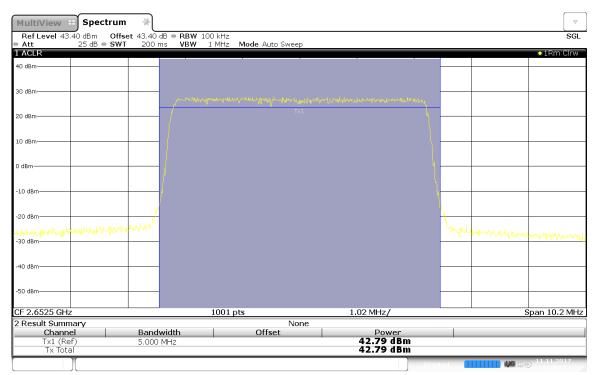
### Channel Bandwidth :10M+10M(2652.5MHz & 2687.5MHz)



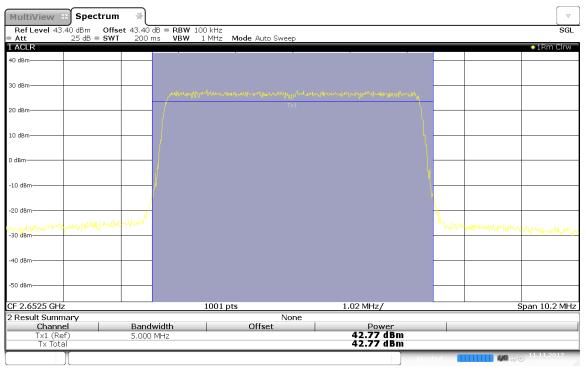
15:50:54 11.11.2017



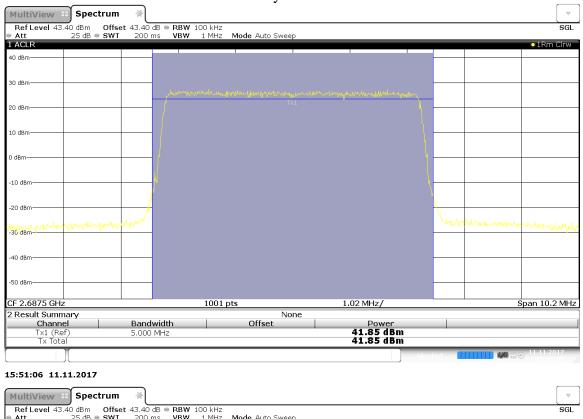
15:51:18 11.11.2017



### 15:51:42 11.11.2017



15:52:06 11.11.2017

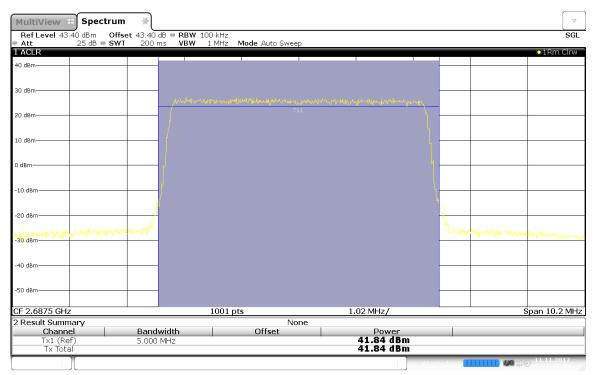


## 5M+5M - carry2-2687.5MHz-Port 1~4:

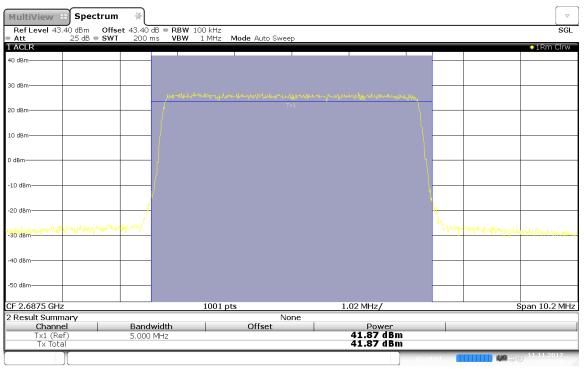
 
 Ref Level
 43.40 dBm
 Offset
 43.40 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 200 ms
 VBW
 1 MHz
 Att 1 ACLR Mode Auto Sweer o1Rm Clrw 40 dBr 30 dBm 20 dBm 10 dBm 0 dBm· -10 dBm -20 dBr -30 dBm 40 dBn -50 dBm CF 2.6875 GHz 1001 pts 1.02 MHz/ Span 10.2 MHz 2 Result Summary None Bandwidth 5.000 MHz Power 41.83 dBm 41.83 dBm Offset Channel "x1 (Ref Tx Total LXI

15:51:30 11.11.2017



### 15:51:54 11.11.2017

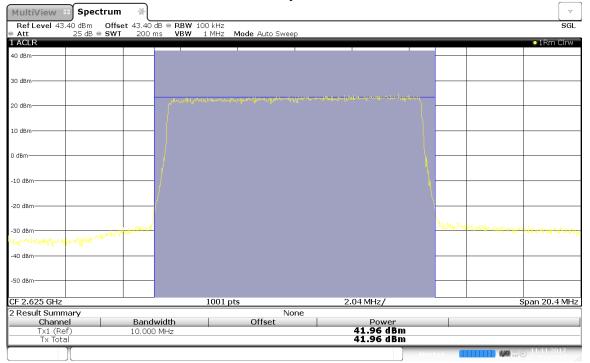


15:52:18 11.11.2017

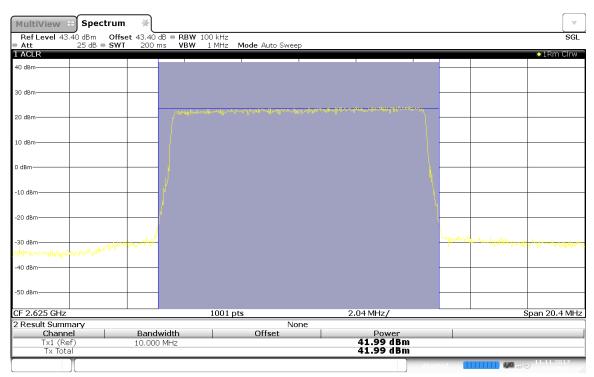
					`		/	
Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		41.96		42.92	18	2	2.15	856.40
2	2625	41.99	2655	42.92	18	2	2.15	859.04
3	2020	41.95	2000	42.86	18	2	2.15	849.00
4		41.94		42.85	18	2	2.15	847.05

### Channel Bandwidth :10M+10M(2625MHz & 2655MHz)

## 10M+10M - carry1-2625MHz-Port 1~4:



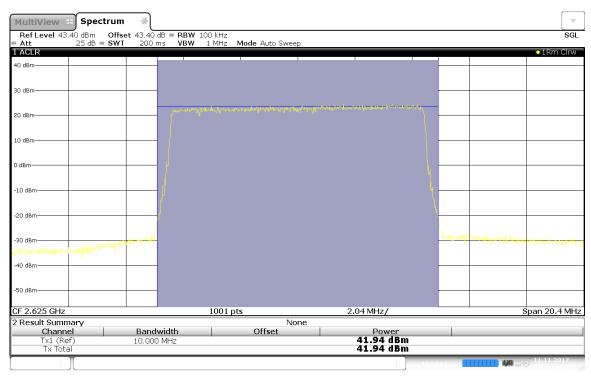
14:12:14 11.11.2017



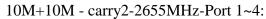
### 14:12:38 11.11.2017

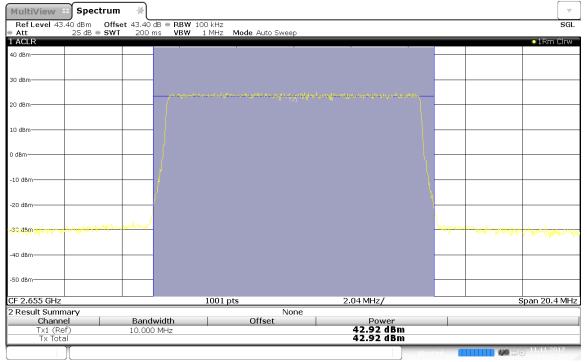
MultiView 🗄 Spectrum	*				$\bigtriangledown$
Ref Level 43.40 dBm Offse Att 25 dB SWT	et 43.40 dB ● RB 200 ms VB	W 100 kHz W 1 MHz Mode Auto Swe	en		SGL
1 ACLR	200 m3 VD	I THE MOLE AND ONE			01Rm Clrw
40 dBm			1 1		
30 dBm					
20 dBm	petr-haspe	an an thaile an	<u>1×1. ma n. 1</u> .		
10 dBm					
0 dBm					
-10 dBm					
-20 dBm	/"				
-30 dBm	Wr-Mall			Jon Marcun	and the physical states and the states of the second second second second second second second second second se
-40 dBm					
-50 dBm					
CF 2.625 GHz		1001 pts	2.04 MHz/		Span 20.4 MHz
2 Result Summary			one		
Channel Tx1 (Ref) Tx Total	Bandwidth 10.000 MHz	Offset	Power 41.95 dBm 41.95 dBm		
				Aborted	11.11.2017

14:13:01 11.11.2017

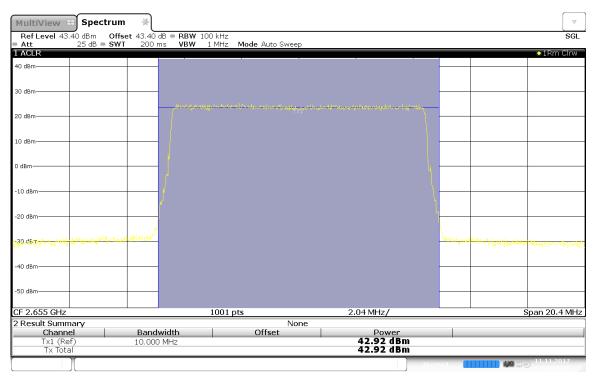


14:13:25 11.11.2017





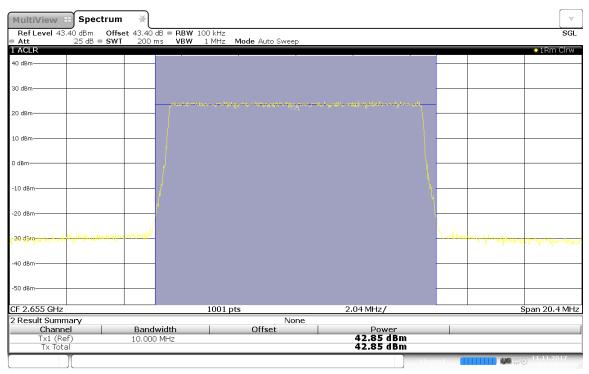
14:12:26 11.11.2017



### 14:12:49 11.11.2017

MultiView 🕀 Spectrum	₩				
Ref Level 43.40 dBm Offse Att 25 dB • SWT	et 43.40 dB = RBW 200 ms VBW	100 kHz 1 MHz <b>Mode</b> Auto Sweep			SGL
1 ACLR	200 IIIS VBW	TMINZ MODE Auto Sweep			O1Rm Clrw
40 dBm					
30 dBm					
20 dBm	- Arrentario	na sene e construction de la const TALL	n na		
10 dBm					
0 dBm					
-10 dBm				\	
-20 dBm				1	
man	L MUAAMA			A provinced or	We Have I have a second
<sup>1</sup> 93618BM204044444444444					and the state of the second state of the second state of the second second second second second second second s
-40 dBm					
-50 dBm					
CF 2.655 GHz		1001 sts	2.04 MHz/		Cran 20,4 Mila
2 Result Summary		1001 pts None			Span 20.4 MHz
Channel	Bandwidth	Offset	Power		
Tx1 (Ref) Tx Total	10.000 MHz		42.86 dBm 42.86 dBm		
				oorted	11.11.2017

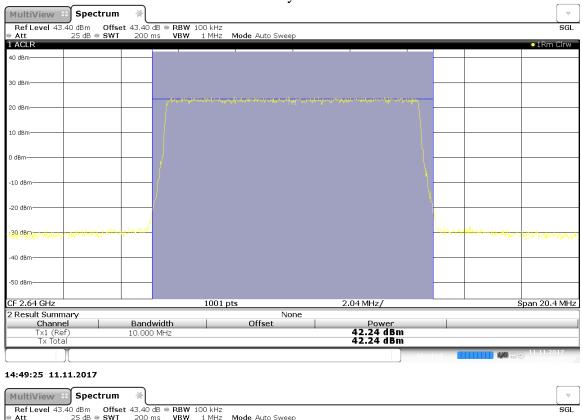
14:13:13 11.11.2017



14:13:37 11.11.2017

Channel Bandwidth :10M+10M(2640MHz & 2670MHz)

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.24		42.22	18	2	2.15	811.02
2	2640	42.24	2670	42.24	18	2	2.15	812.89
3	2040	42.24	2070	42.2	18	2	2.15	809.16
4		42.22		42.22	18	2	2.15	809.15

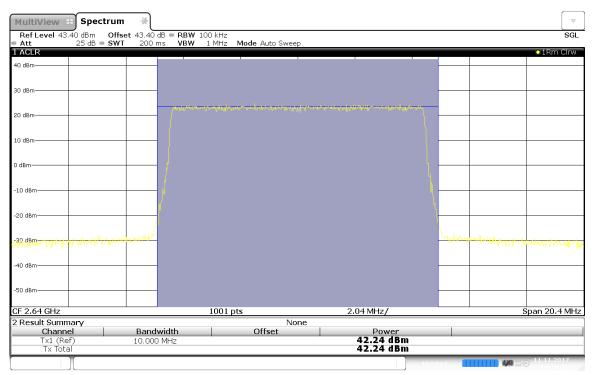


## 10M+10M - carry1-2640MHz-Port 1~4:

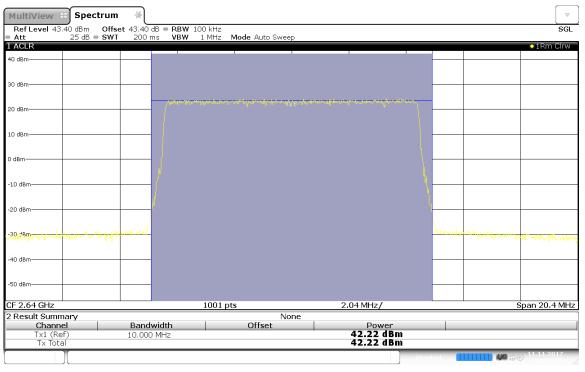
 
 Ref Level 43.40 dbm
 Offset 43.40 db
 RBW 100 kHz

 Att
 25 db
 SWT
 200 ms
 VBW
 1 MHz
 Mode Auto Sweep
 Att 1 ACLR o1Rm Clrw 40 dBr 30 dBm 20 dBm 10 dBm 0 dBm· -10 dBm -20 dBr -30 dBm 40 dBr -50 dBm CF 2.64 GHz 2 Result Summary 1001 pts 2.04 MHz/ Span 20.4 MHz None Bandwidth 10.000 MHz Power 42.24 dBm 42.24 dBm Offset Channel "x1 (Ref Tx Total 130

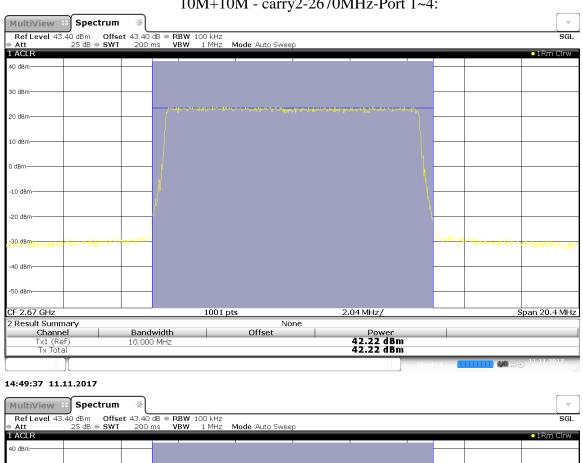
14:49:49 11.11.2017



### 14:50:13 11.11.2017



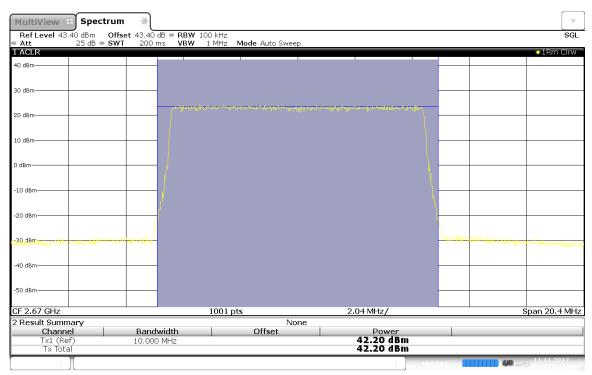
14:50:37 11.11.2017



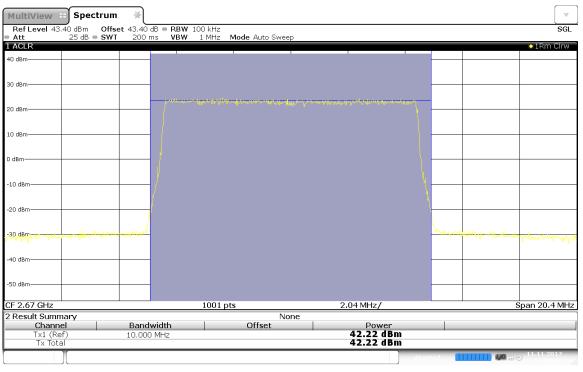
## 10M+10M - carry2-2670MHz-Port 1~4:

MultiView 🖽 Spectrun	ı .¥[					$\nabla$
Ref Level         43.40 dBm         Offs           Att         25 dB ● SW	set 43.40 dB <b>● RBV</b> T 200 ms <b>VB</b> ♥	/ 100 kHz / 1 MHz Mode Auto Sweep				SG
ACLR	1 200 Mis VBV	V I MHZ Mode Auto Sweep	)			●1Rm Clrw
0 dBm						
0 dBm						
		فليسك مقاطين ويكرن والمحمد مستك مربق كالم	وحرائيك محاجزة ورزانيه فاحتر تعليهما والأسراد فالقاف ومراورتهم			
D dBm						
D dBm						
dBm						
.0 dBm				<u>ч</u>		
	1			4		
20 dBm						
	the set of the set of the			and a second	. d	
B. B. W. Mart Brand Brand	edante on e			- ihrencelea	ىلاليەتىرىلىكى يەتىر	bulgentry makes
0 dBm						
50 dBm						
F 2.67 GHz		1001 pts	2.04 MHz/			Span 20.4 Mi
Result Summary Channel	Bandwidth	Noi Offset	Power			
Tx1 (Ref)	10.000 MHz	Unset	42.24 dBm			
Tx Total	10,000 MINZ		42.24 dBm			

14:50:01 11.11.2017



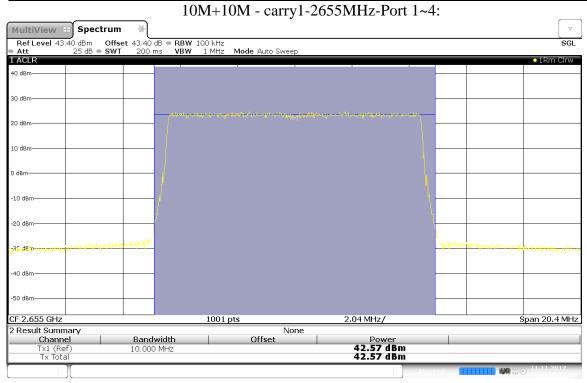
### 14:50:25 11.11.2017



14:50:49 11.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.57		41.9	18	2	2.15	814.37
2	2655	42.52	2685	41.9	18	2	2.15	809.35
3	2000	42.55	2000	41.88	18	2	2.15	810.63
4		42.55		41.86	18	2	2.15	808.91

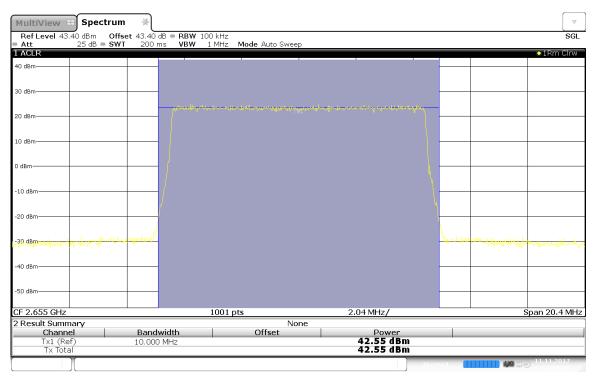
### Channel Bandwidth :10M+10M(2655MHz & 2685MHz)



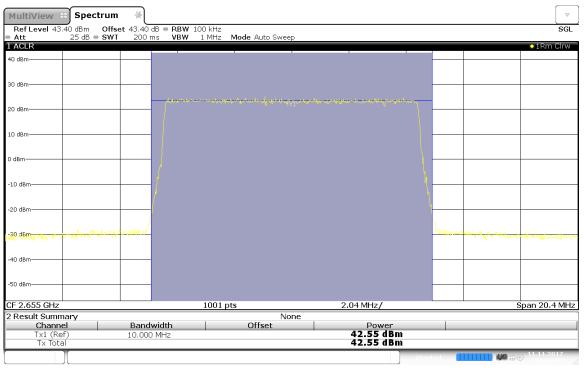
### 15:19:11 11.11.2017

MultiView 🕀 Spectrum					
Ref Level 43.40 dBm Offs Att 25 dB SWT	et 43.40 dB ● RBW 1 200 ms VBW	.00 kHz 1 MHz <b>Mode</b> Auto Sweep			SGL
1 ACLR	2001113 081	I MINZ MODE Auto Sweep			●1Rm Clrw
40 dBm					
30 dBm					
20 dBm		en 181, a Autore and an			
10 dBm					
0 dBm					
-10 dBm	/			\ <u></u>	
-20 dBm					
M30 GBW-Dr. Local years of the providence of the	Careford and the			Litter and and and and a second	an water and the second
-40 dBm					
-50 dBm					
CF 2.655 GHz		1001 pts	2.04 MHz/		Span 20.4 MHz
2 Result Summary		None			
Channel Tx1 (Ref) Tx Total	Bandwidth 10.000 MHz	Offset	Power 42.52 dBm 42.52 dBm		
				borted 🚺 🗰 🚧	11.11.2017

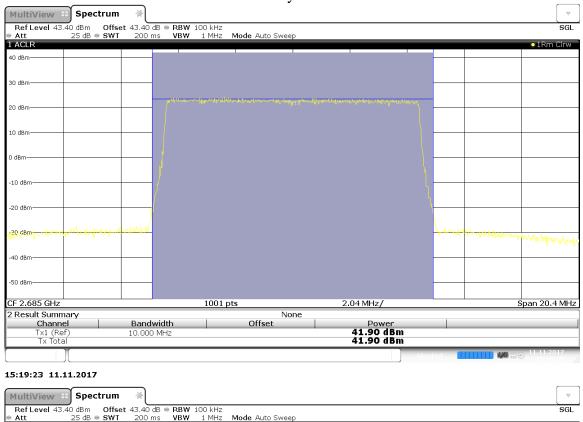
15:19:35 11.11.2017



#### 15:19:59 11.11.2017



15:20:23 11.11.2017

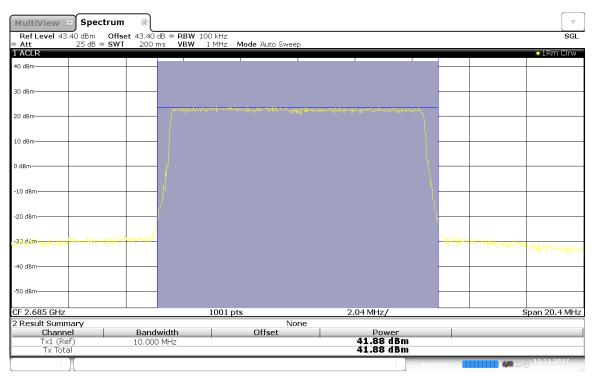


## 10M+10M - carry2-2685MHz-Port 1~4:

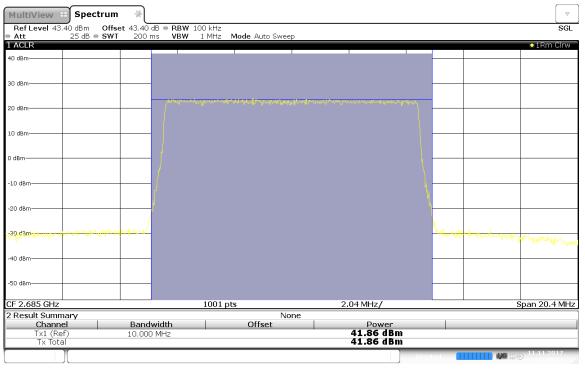
 
 Ref Level
 43.40 dBm
 Offset
 43.40 dB
 RBW
 100 kHz

 Att
 25 dB
 SWT
 200 ms
 VBW
 1 MHz
 Att 1 ACLR o1Rm Clrw 40 dBr 30 dBm 20 dBm 10 dBm 0 dBm· -10 dBm -20 dBr 30 d9n 40 dBr -50 dBm CF 2.685 GHz 2 Result Summary 1001 pts 2.04 MHz/ Span 20.4 MHz None Bandwidth 10.000 MHz Power 41.90 dBm 41.90 dBm Offset Channel "x1 (Ref Tx Total LXI

15:19:47 11.11.2017



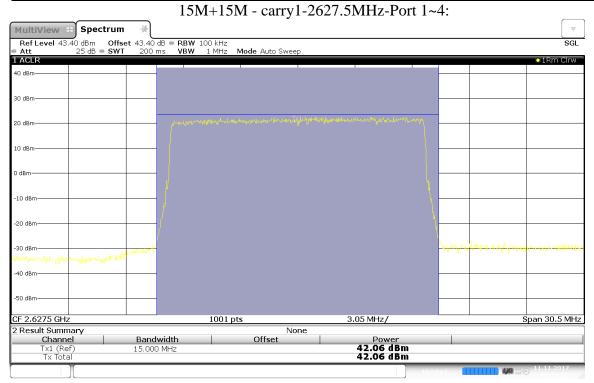
### 15:20:11 11.11.2017



15:20:35 11.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.06		42.77	18	2	2.15	849.14
2	2627.5	42.06	2652.5	42.74	18	2	2.15	845.98
3	2027.5	42.05	2052.5	42.78	18	2	2.15	849.30
4		42.03		42.76	18	2	2.15	845.40

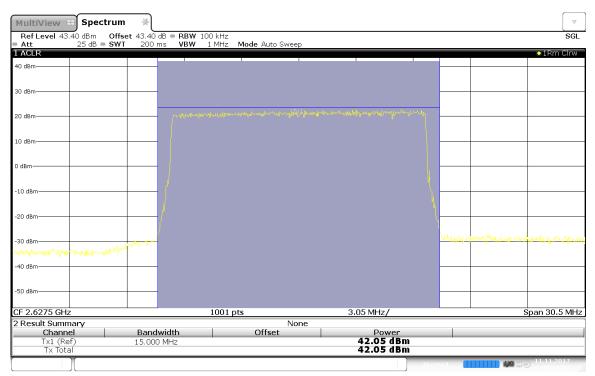
### Channel Bandwidth :15M+15M(2627.5MHz & 2652.5MHz)



### 09:54:06 11.11.2017

MultiView 🕀	Spectrum	¥									
Ref Level 43.40	dBm Offse 5 dB = SWT		dB ● RBW : ns VBW		de Auto Sweep						SGL
1 ACLR	.0 GD = 0111	2001		111112 1010							●1Rm Clrw
40 dBm											
10 0011											
30 dBm								_			
						and the backs	Tradition of the state of the state				
20 dBm							ntraffiliana darahanan filan	1/v-4%			
10 dBm											
0 dBm								-   -			
-10 dBm											
-20 dBm								ا			
-30 dBm		mapping						<u>14</u>	والإنهرها	wand waa waa waa waa waa waa waa waa waa wa	ՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠ
millions		M. with a									
-40 dBm								-			
-50 dBm								_			
CF 2.6275 GHz				1001 pts			3.05 MHz/			S	pan 30.5 MHz
2 Result Summar	Y .				None	2	_				
Channel		Band			Offset		Power 42.06 dBm		_		
Tx1 (Ref) Tx Total		15.000	) MHZ				42.06 dBm				
TX IOLAI							-2100 abili	_			11.11.2017

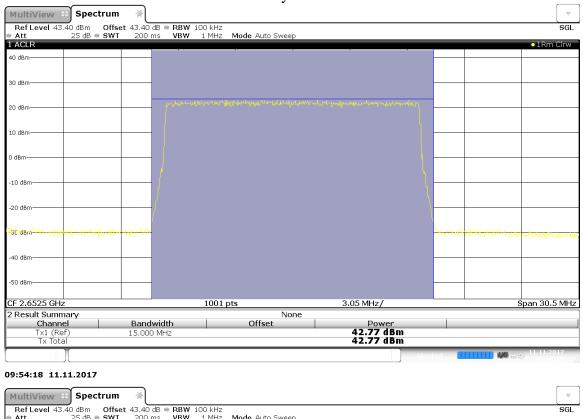
09:54:30 11.11.2017



### 09:54:54 11.11.2017

MultiView 🕄 Spectrum	¥					
	et 43.40 dB = RBW					SGL
● Att 25 dB ● SWT 1 ACLR	200 ms VBW	1 MHz Mode Auto Sweep				o1Rm Clrw
40 dBm		1				e in the on the
40 dBm						
30 dBm						
20 dBm	permenab			,		
10 dBm						
0 dBm						
o ubiii						
	1 <b>1</b>			<u></u>		
-10 dBm						
-20 dBm	/					
				4		
-30 dBm	wheel and			<u>nothing the</u>	distant and the state of the st	معاولة والمحروطية والمحادثة والمحادثة
-30 dBm- Mptallinnerwanghantanahanghlinnahli						•
-40 dBm						
-50 dBm						
-50 0.5.11						
CF 2.6275 GHz		1001 pts	3.05 MHz/		5	pan 30.5 MHz
2 Result Summary		Non				
Channel	Bandwidth	Offset	Power			
Tx1 (Ref) Tx Total	15.000 MHz		42.03 dBm 42.03 dBm			
			+2.03 aBii			11 11 2017
				Aborted	REF.	09:55:17

09:55:18 11.11.2017

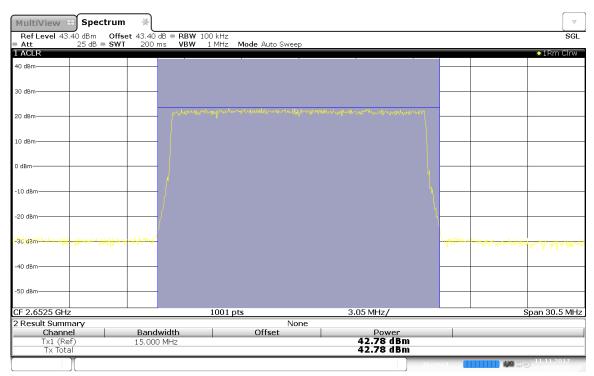


## 15M+15M - carry2-2652.5MHz-Port 1~4:

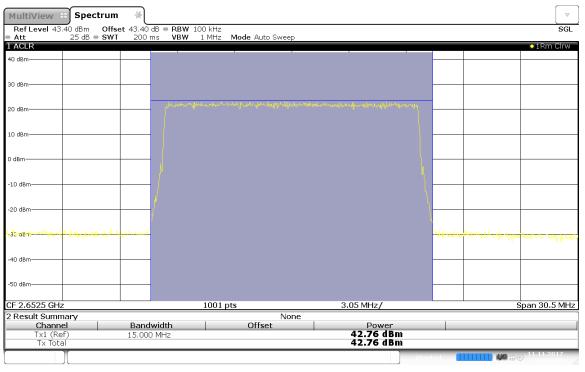
 
 Ref Level 43.40 dbm
 Offset 43.40 db
 RBW 100 kHz

 Att
 25 db
 SWT
 200 ms
 VBW
 1 MHz
 Mode Auto Sweep
 Att 1 ACLR o1Rm Clrw 40 dBr 30 dBm 20 dBm 10 dBm 0 dBm· -10 dBm -20 dBr ab dan 40 dBr -50 dBm 1001 pts 3.05 MHz/ Span 30.5 MHz CF 2.6525 GHz 2 Result Summary None Bandwidth 15.000 MHz Power 42.74 dBm 42.74 dBm Offset Channel "x1 (Ref Tx Total 130

09:54:42 11.11.2017



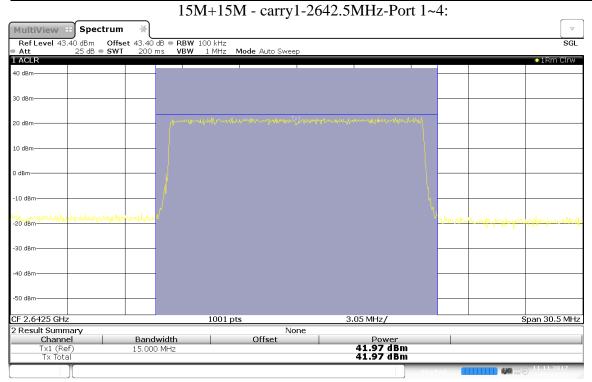
#### 09:55:06 11.11.2017



09:55:30 11.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		41.97		42.21	18	2	2.15	785.59
2	2642.5	42.21	2667.5	42.17	18	2	2.15	803.59
3		42.18		42.21	18	2	2.15	804.51
4		42.14		42.19	18	2	2.15	798.98

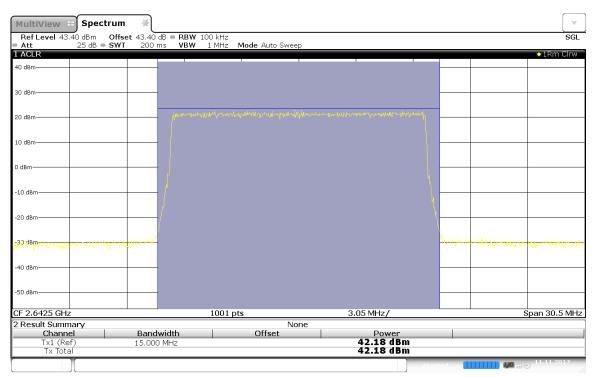
### Channel Bandwidth :15M+15M(2642.5MHz & 2667.5MHz)



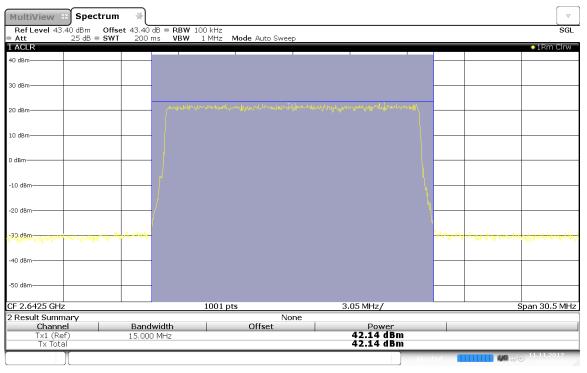
10:35:02 11.11.2017

MultiView 🕀	Spectrum	₩							
Ref Level 43.40	dBm Offs	et 43.40	dB <b>≕ RBW</b> 10 ms <b>VBW</b> :		~				SGL
Att 1 ACLR	25 dB 🖷 SWT	200	ns VBW .	MHz Mode Auto	o Sweep				●1Rm Clrw
40 dBm			I.						
30 dBm									
30 UBIII									
00 ID			مري ميرين ميري مريد ميرين	monumer by manufactures	wenter Jahonwoon	معهمان إطور معرس سلمن يعزو بصل تلابس سلمان الأرسان وريقة طسل بر	, prod.		
20 dBm									
10 dBm									
0 dBm									
							- <b>X</b> -		
-10 dBm									
-20 dBm							\		
							1		
30 dBm and more and	International Condition of the	<del>, handred</del>					line and the second	<del>applesellingenerge</del>	warren and a started and a start of the star
-40 dBm									
-50 dBm									
CF 2.6425 GHz				1001 pts		3.05 MHz/			pan 30.5 MHz
2 Result Summa Channel		Band	width	Offse	None	Power			
Tx1 (Ref)		15.000		0130		42.21 dBm			
Tx Total						42.21 dBm			
							Aborted		11.11.2017 10:35:25

10:35:26 11.11.2017



#### 10:35:50 11.11.2017

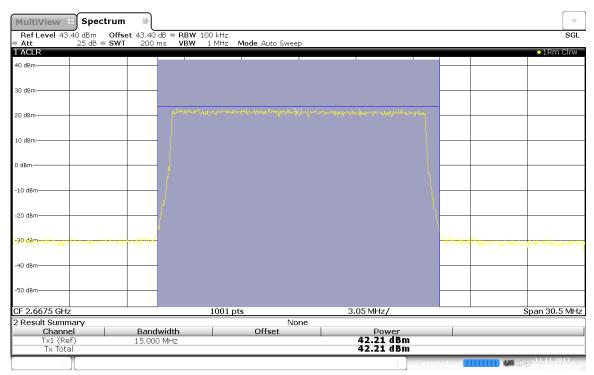


10:36:13 11.11.2017

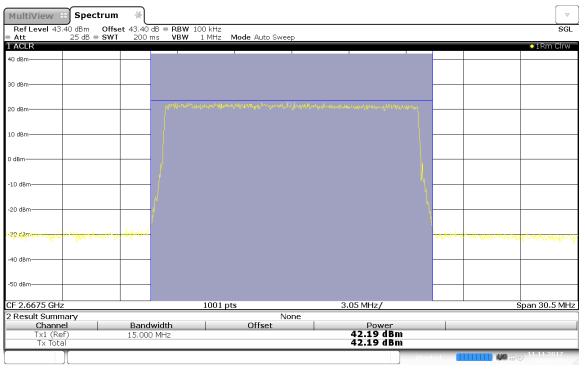
MultiView 🕀 Spectr	um 🔺				7
Ref Level 43.40 dBm	Offset 43.40 dB = RBW				se
Att 25 dB ● 5 ACLR	SWT 200 ms VBW	1 MHz Mode Auto Sweep			●1Rm Clrv
0 dBm		1			
U UBIII					
0 dBm					
		dina and Asland and Total as			
0 dBm	Lowpood				
0 dBm					
dBm					
abin					
LO dBm					
	, <b>(</b>				
20 dBm	,			N	
La Alexandra de La Alexandra d	at an end there			Sentrum of Letter con-	
unformulation	hrounder Allen			waller and row and mound	19 Mary March
0 dBm					
i0 dBm					
= 2.6675 GHz		1001 pts	3.05 MHz/		Span 30.5 M
Result Summary		None	5105 (4112)		5pan 5015 M
Channel	Bandwidth	Offset	Power		
Tx1 (Ref)	15.000 MHz		42.21 dBm		
Tx Total			42.21 dBm		
				borted 🚺 🗰 kg	
:35:14 11.11.2017				hortod 🚺 🧰 🚧	● 11.11.2017 10:35:11
:35:14 11.11.2017 IultiView == Spectr				harted 🚺 🚺 🖓 🕁	
1:35:14 11.11.2017 IultiView == Spectr Ref Level 43.40 dBm 0	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep		harted 🚺 🚺 🖓 🚟	
2:35:14 11.11.2017 IultiView = Spectr Ref Level 43.40 dBm Att 25 dB = 1	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep		harted 🚺 🚺 🖓 🕁	S
:35:14 11.11.2017 IultiView = Spectr Ref Level 43.40 dBm Att 25 dB = 1 ACLR	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep		Boost out	S
:35:14 11.11.2017 IultiView = Spectr Ref Level 43.40 dBm Att 25 dB = 1 ACLR	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep r r		Bort of	S
:35:14 11.11.2017 IultiView  Spectr Ref Level 43.40 dBm ( Att 25 dB ) Att 25 dB )	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep		horred	S
:35:14 11.11.2017 IultiView ⊕ Spectr Ref Level 43.40 dBm 0 Att 25 dB € 5 ACLR dBm	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep		harted	S
:35:14 11.11.2017 IultiView :: Spectr Ref Level 43.40 dBm d Att 25 dB s ACLR dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			S
:35:14 11.11.2017 IultiView :: Spectr Ref Level 43.40 dBm d Att 25 dB s ACLR dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep , , , ,	far jaal nit fereingene Magnet ferfange verenden des de	bort of	S
:35:14 11.11.2017 ultiView :: Spectr Ref Level 43.40 dBm 0 Att 25 dB 9 Act 25 dB 9 dBm 0 dBm 0 dBm 0	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep T T			S
:35:14 11.11.2017 IultiView B Spectr Ref Level 43.40 dBm Att 25 dB S ACLR dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			S
:35:14     11.11.2017       ultiView     Spectr       Ref Level     43.40 dBm       Att     25 dB       dBm     dBm       dBm     dBm	Offset 43.40 dB	100 kHz 1 MHz <b>Mode</b> Auto Sweep	fer Justic Minister of the gradient of the state of the s		S
:35:14 11.11.2017 IultiView : Spectr Ref Level 43.40 dBm ( Att 25 dB = 9 ACLR dBm ( dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep i i i			S
:35:14 11.11.2017 IultiView : Spectr Ref Level 43.40 dBm ( Att 25 dB = 9 ACLR dBm ( dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep , 1			S
:35:14 11.11.2017  LultiView :: Spectr Ref Level 43.40 dBm Act. 25 dB = 9 ACLR dBm dBm dBm dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep T T			S
:35:14 11.11.2017  IultiView :: Spectr Ref Level 43.40 dBm  Actr 25 dB = 9 ACLR  dBm  dBm  dBm  dBm  dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			S
:35:14 11.11.2017  IultiView :: Spectr Ref Level 43.40 dBm Att 25 dB = 1 ACLR Add Bm dBm dBm dBm dBm dBm dBm dBm dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			S
:35:14 11.11.2017       ultiView #     Spectr       Ref Level 43.40 dBm     25 dB #       Actr     25 dB #       Actr     26 dB #       dBm     dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			S
:35:14 11.11.2017  IultiView :: Spectr Ref Level 43.40 dBm Att 25 dB = 1 ACLR Add Bm dBm dBm dBm dBm dBm dBm dBm dBm dBm	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep 1 1			S
:35:14     11.11.2017       IultiView     Spectr       Ref Level     43.40 dBm       Actr     25 dB       4Bm     48m       dBm     48m       dBm     48m       dBm     48m       dBm     48m	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep I I			• 1Rm Clr
:35:14 11.11.2017  IultiView  Spectr Act: 25 dB Act: 25 dB Act: 368 Act: 388 Act: 38	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep T T		post of	• 1Rm Clr
:35:14 11.11.2017  IultiView  Spectr Ref Level 43.40 dBm Att 25 dB  ACLR  dBm dBm dBm dBm dBm dBm dBm dBm dBm dB	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep		post of	
:35:14 11.11.2017  IultiView  Spectr Ref Level 43.40 dBm Att 25 dB  ACLR  dBm dBm dBm dBm dBm dBm dBm dBm dBm dB	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep		pose of	• 1Rm Clr
:35:14 11.11.2017  IultiView : Spectr Ref Level 43.40 dBm Att 25 dB : S ACLR  dBm dBm dBm dBm dBm dBm dBm dBm dBm dB	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep 1 1			• 1Rm Clr
:35:14 11.11.2017  IultiView : Spectr Ref Level 43.40 dBm Att 25 dB : S ACLR  dBm dBm dBm dBm dBm dBm dBm dBm dBm dB	Offset 43.40 dB	100 kHz 1 MHz Mode Auto Sweep			• 1Rm Clr
:35:14 11.11.2017       ultiview ::::::::::::::::::::::::::::::::::::	Offset 43.40 dB	1 MHz Mode Auto Sweep			
:35:14       11.11.2017         IultiView       Spectr         Ref Level       43.40 dBm         Att       25 dB         ACLR         idBm         idBm <td< td=""><td>Offset 43.40 dB</td><td>1 MHz Mode Auto Sweep</td><td>3.05 MHz/</td><td></td><td></td></td<>	Offset 43.40 dB	1 MHz Mode Auto Sweep	3.05 MHz/		
	Offset 43.40 dB  RBW SWT 200 ms VBW	1 MHz Mode Auto Sweep	3.05 MHz/		
2:35:14 11.11.2017  IultiView :: Spectr Ref Level 43.40 dBm  ACLR  0 dBm	Offset 43.40 dB	1 MHz Mode Auto Sweep			● 11.11.2017 SG ● 1Rm Clr

# 15M+15M - carry2-2667.5MHz-Port 1~4:

10:35:38 11.11.2017



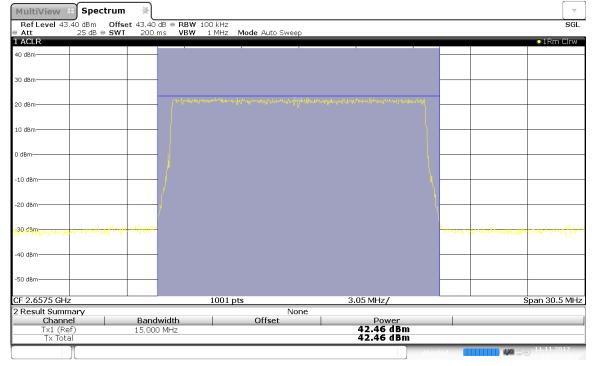
### 10:36:01 11.11.2017



10:36:25 11.11.2017

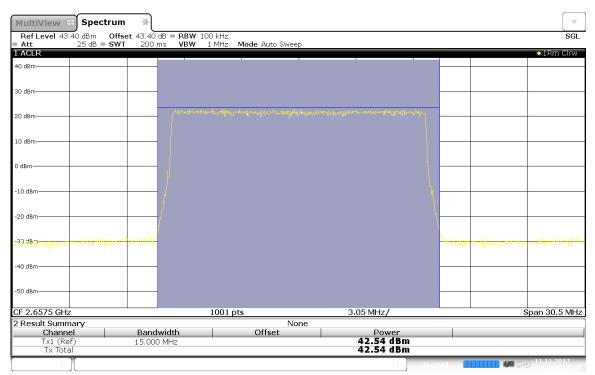
Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.46		41.88	18	2	2.15	801.67
2	2657.5	42.54	2682.5	41.96	18	2	2.15	816.58
3		42.54		41.98	18	2	2.15	818.34
4		42.51		41.99	18	2	2.15	816.22

### Channel Bandwidth :15M+15M(2657.5MHz & 2682.5MHz)

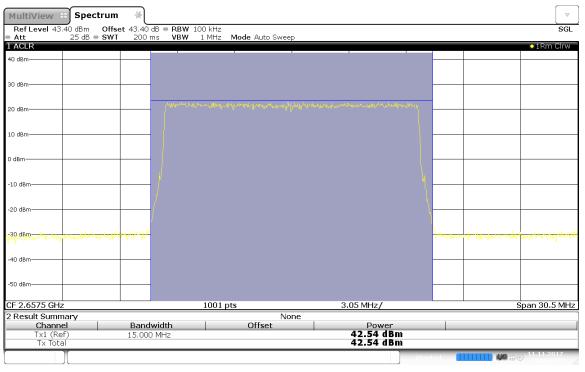


## 15M+15M - carry1-2657.5MHz-Port 1~4:

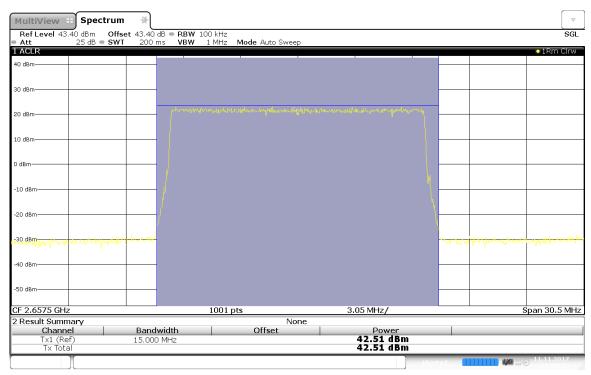
11:03:39 11.11.2017



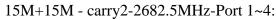
### 11:04:03 11.11.2017

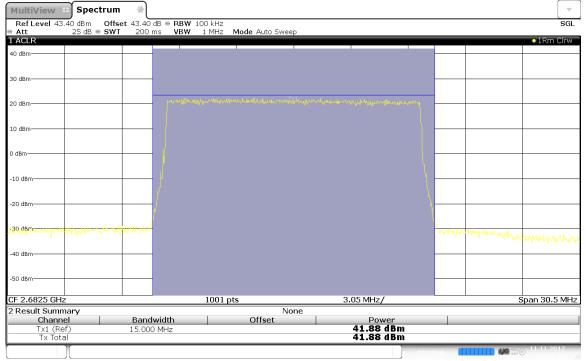


11:04:27 11.11.2017

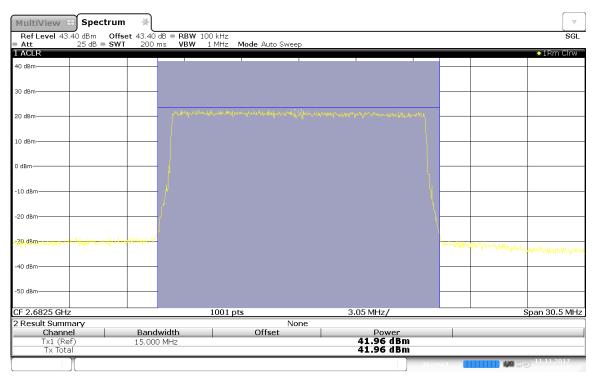


11:04:51 11.11.2017





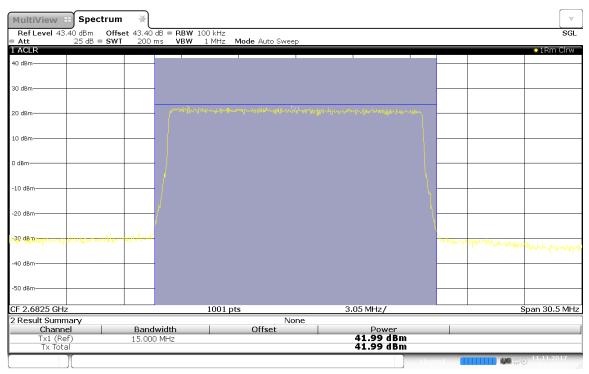
11:03:51 11.11.2017



#### 11:04:15 11.11.2017

MultiView 🕀 Spectrum	¥				$\bigtriangledown$
Ref Level 43.40 dBm Offs Att 25 dB SWT	et 43.40 dB   RE 200 ms VE	3W 100 kHz 3W 1 MHz Mode Auto Swee			SGL
1 ACLR			J		O1Rm Clrw
40 dBm					
30 dBm					
20 dBm	( the second			**11	
10 dBm	<u> </u>				
0 dBm	J				
				. L.	
-10 dBm	<b>]</b>				
-20 dBm	<u> </u>				
1-39.580.toparente eligitatetetete	and the state of the			Wrat Arab	whitehour the product where produced was
					In a fear or work how for the
-40 dBm					
-50 dBm					
CF 2.6825 GHz		1001 pts	3.05 MHz/		Span 30.5 MHz
2 Result Summary		No	ne		
Channel	Bandwidth	Offset	Power 41.98 dBm		
Tx1 (Ref) Tx Total	15.000 MHz		41.98 dBm 41.98 dBm		
				Aborted _	11.11.2017
					REF 11:04:39

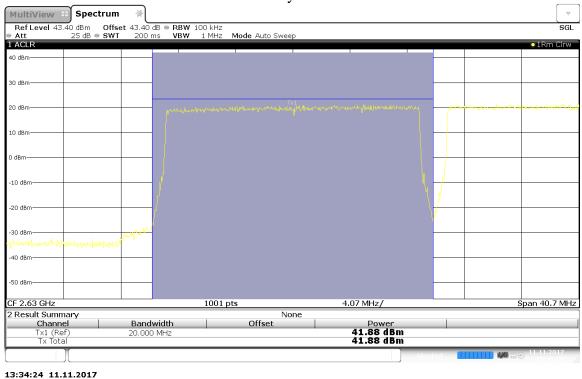
11:04:39 11.11.2017



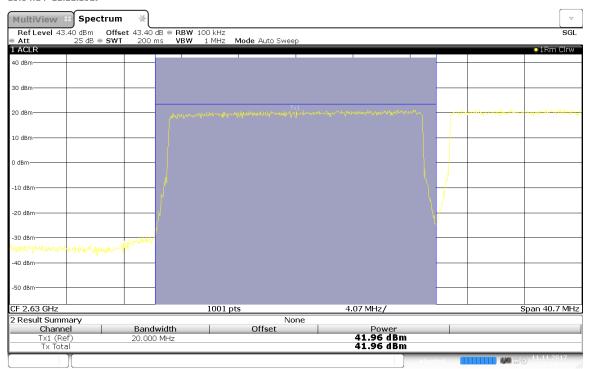
11:05:03 11.11.2017

Channel Bandwidth :20M+20M(2630MHz & 2650MHz)

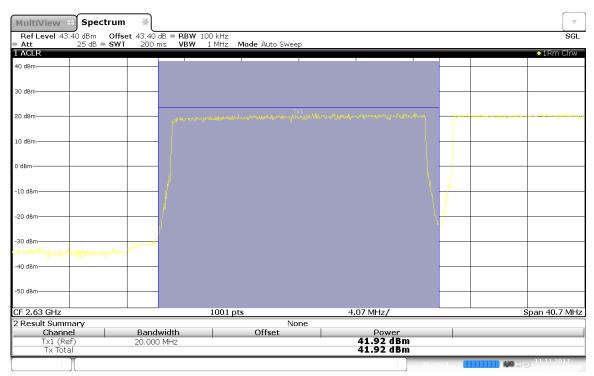
Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		41.88		42.36	18	2	2.15	791.94
2	2630	41.96	2650	42.5	18	2	2.15	812.58
3	2030	41.92	2000	42.48	18	2	2.15	807.11
4		41.89		42.46	18	2	2.15	802.54



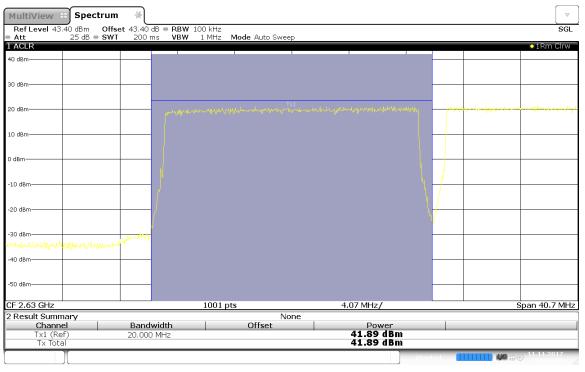
## 20M+20M - carry1-2630MHz-Port 1~4:



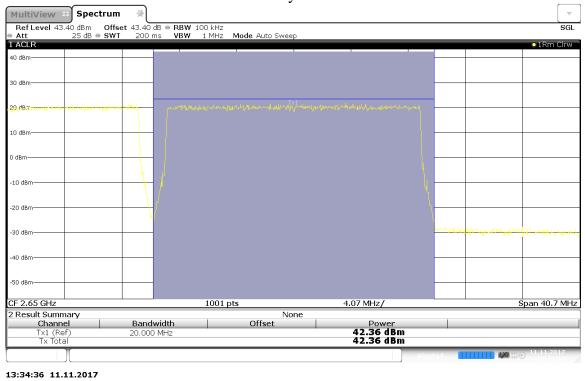
13:34:48 11.11.2017



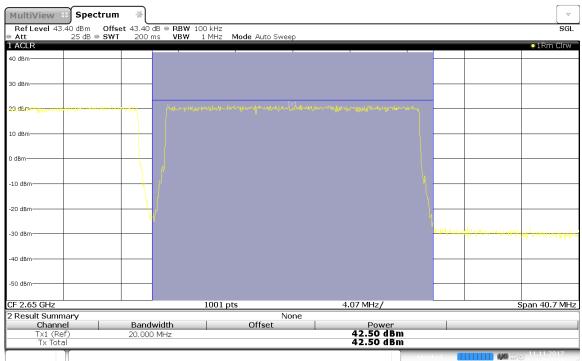
#### 13:35:12 11.11.2017



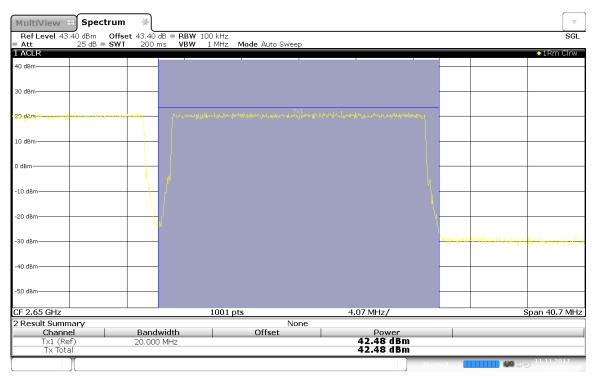
13:35:36 11.11.2017



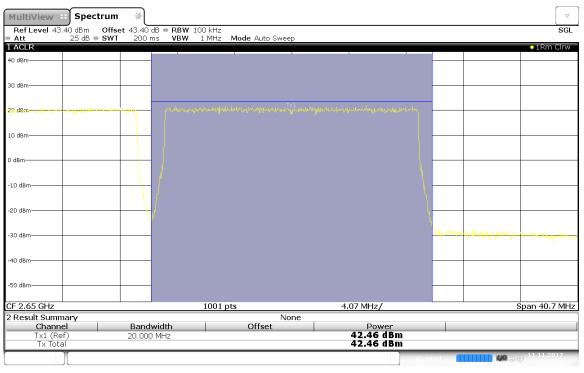
## 20M+20M - carry2-2650MHz-Port 1~4:



13:35:00 11.11.2017



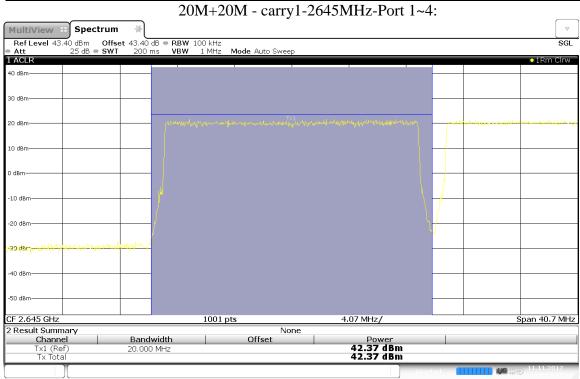
#### 13:35:24 11.11.2017



13:35:48 11.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.37		42.35	18	2	2.15	835.66
2	2645	42.34	2665	42.28	18	2	2.15	826.11
3	2045	42.33	2005	42.25	18	2	2.15	822.33
4		42.31		42.25	18	2	2.15	820.43

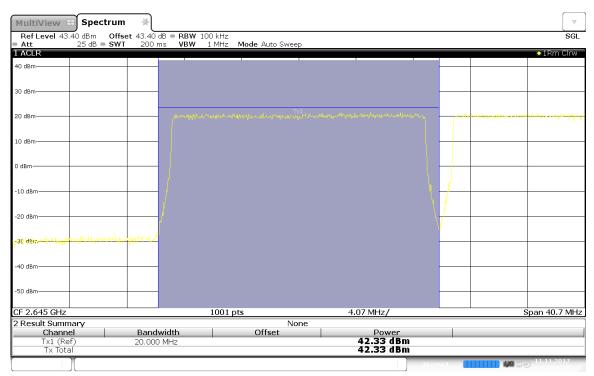
### Channel Bandwidth :20M+20M(2645MHz & 2665MHz)



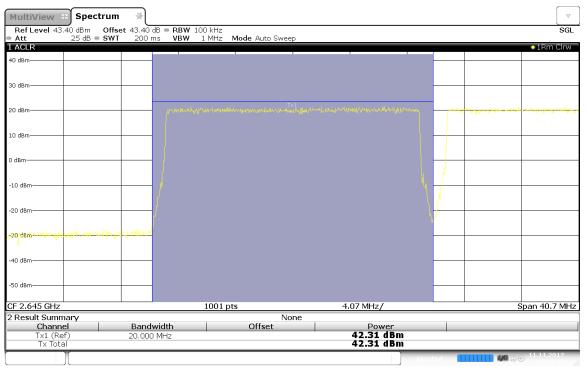
### 13:03:42 11.11.2017

MultiView 🕀 Spectrum	*				
Ref Level 43.40 dBm Offse Att 25 dB SWT	et 43.40 dB  RBW 10 200 ms VBW 1	) kHz . MHz <b>Mode</b> Auto Sweep			SGL
1 ACLR	2001110 4047 3				•1Rm Clrw
40 dBm			· · ·		
30 dBm					
20 dBm	harmelt-markets	T×1 พ.เพาะสาวประกฎปปลากประกาศการให้ปลายสาว	Manager and a second a second		ىرىمە بەمەلىرىمەتلەتتە)تلاردىيەن يەن دىمەندىرە مالىرىلىغەنچە.
10 dBm					
0 dBm					
-10 dBm					
-20 dBm				\ <u>/</u>	
:30.68m الفريدية المراجع المنظمين المراجع الم	<u>hanan kangan kangan</u> Kangan kangan k				
-40 dBm					
-50 dBm					
CF 2.645 GHz		1001 pts	4.07 MHz/		Span 40.7 MHz
2 Result Summary Channel	Bandwidth	None Offset	Power	1	
Tx1 (Ref) Tx Total	20.000 MHz	Unset	42.34 dBm 42.34 dBm		
				oorted 🛄	

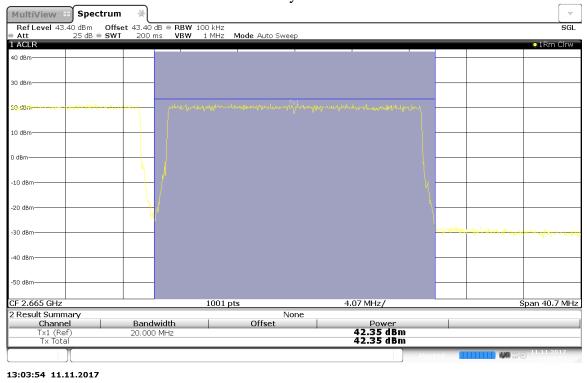
13:04:06 11.11.2017

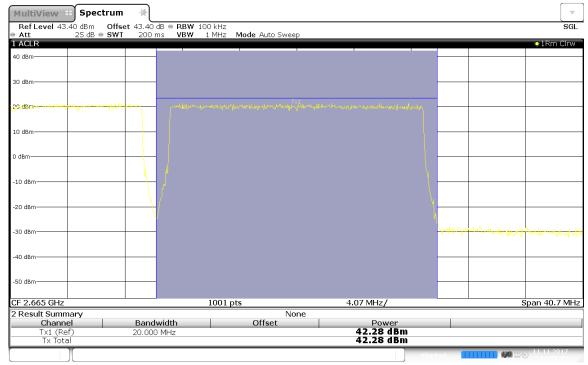


#### 13:04:30 11.11.2017



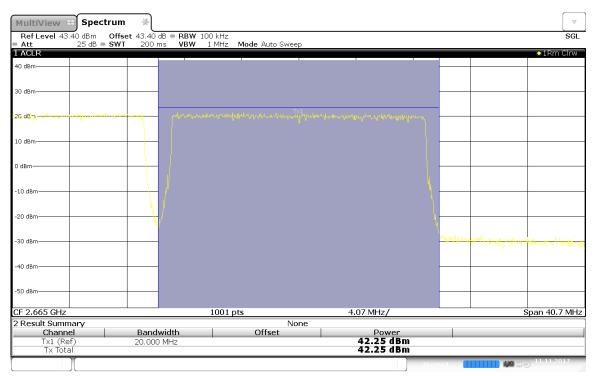
13:04:54 11.11.2017





13:04:18 11.11.2017

## 20M+20M - carry2-2665MHz-Port 1~4:



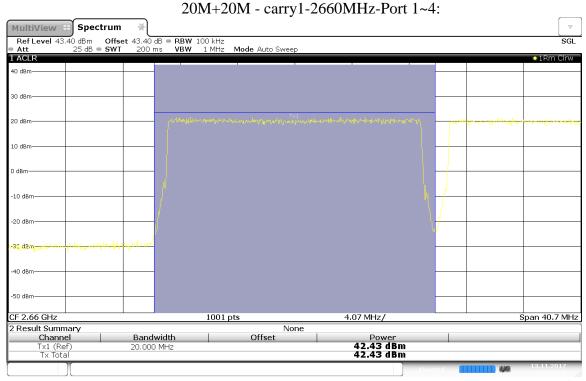
#### 13:04:42 11.11.2017

MultiView ↔ Spectrum Ref Level 43.40 dBm Offset 43.40 dB ● RBW	V 100 kHz			SG
	1 MHz Mode Auto Sweep			30
ACLR				⊙1Rm Clrw
0 dBm				
0 dBm				
0,d8m	$\alpha$ is the transformation of	agaaghhasta dhadagaraanka kalina palaagadaagaadaa dh	1	
0 dBm				
dBm				
10 dBm				
20 dBm			\	
30 dBm			h <del>n an an</del>	hall and a survey of a property of the second statements of the
40 dBm				
50 dBm				
F 2.665 GHz	1001 pts	4.07 MHz/		Span 40.7 MH
Result Summary	None			
Channel         Bandwidth           Tx1 (Ref)         20.000 MHz           Tx Total         20.000 MHz	Offset	Power 42.25 dBm 42.25 dBm		

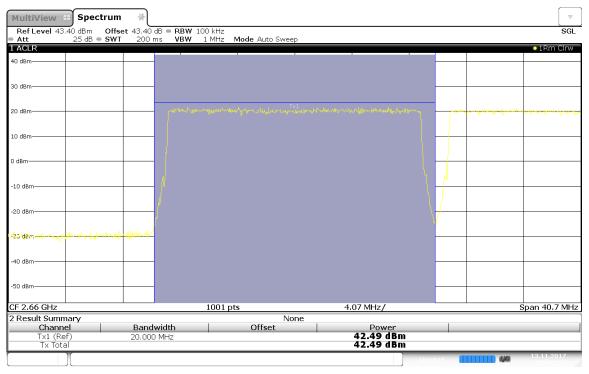
13:05:06 11.11.2017

Port	Carry1 Center Freq. (MHz)	Carry1 Max output Power in dBm	Carry2 Center Freq. (MHz)	Carry2 Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Dipole Antenna	Total Power in W Of single antenna
1		42.43		42.16	18	2	2.15	835.66
2	2660	42.49	2680	42.13	18	2	2.15	826.11
3	2000	42.48	2000	42.17	18	2	2.15	822.33
4		42.47		42.12	18	2	2.15	820.43

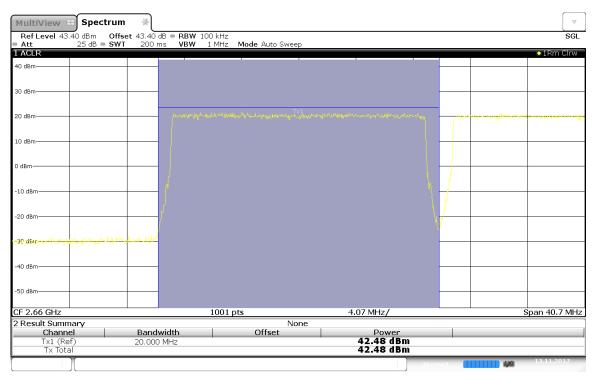
### Channel Bandwidth :20M+20M(2660MHz & 2680MHz)



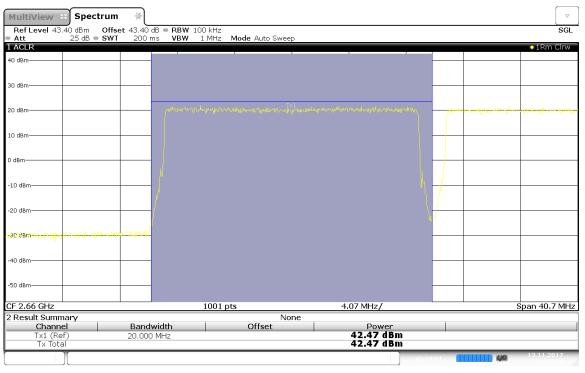
21:01:08 13.11.2017



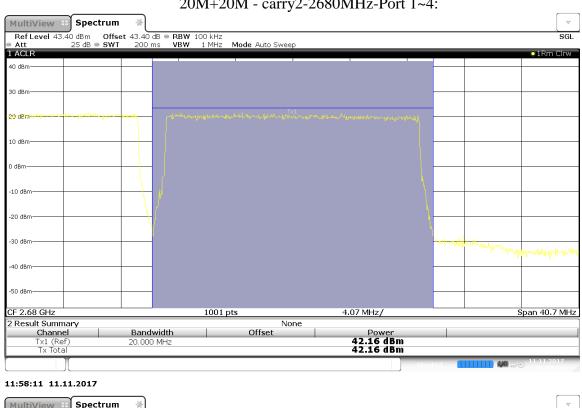
21:01:32 13.11.2017



#### 21:01:56 13.11.2017



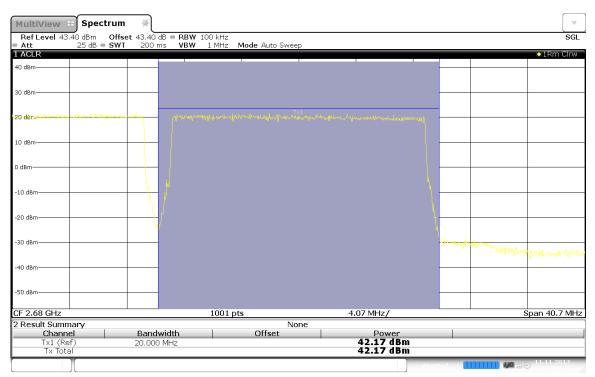
21:02:20 13.11.2017



## 20M+20M - carry2-2680MHz-Port 1~4:

	trum 🗶				
Ref Level 43.40 dBm Att 25 dB	Offset 43.40 dB  RBW SWT 200 ms VBW	100 kHz 1 MHz Mode Auto Sweep			SGL
I ACLR	SWI 200 MS VBW	I MHZ Mode Auto Sweep			O1Rm Clrw
40 dBm					
30 dBm					
20 dBm socioni distributive and a socioni di socioni di socioni di socioni di socioni di socione di socione di	educidar with more that	$\sim_{\rm transmission}$		u	
10 dBm					
0 dBm					
-10 dBm					
-20 dBm					
-30 dBm				Lange and all and a lange of the second	mand management
-40 dBm					- 1
-50 dBm					
CF 2.68 GHz		1001 pts	4.07 MHz/		Span 40.7 MHz
2 Result Summary		None			
Channel	Bandwidth	Offset	Power		
Tx1 (Ref) Tx Total	20.000 MHz		42.13 dBm 42.13 dBm		
					11.11.2017

11:58:34 11.11.2017



#### 11:58:58 11.11.2017

MultiView 8									
Ref Level 43.4 Att	40 dBm Offs 25 dB ● SW		dB  RBW	100 kHz 1 MHz Mode /	Auto Sween				SGL
1 ACLR	25 dD = 34	2001		I MILZ MODE	Hato Sweep				•1Rm Clrw
40 dBm									
30 dBm									
)26 gBM 444 publich	i na wata ajita afi a da da da			yewlt-myramarabilymma	mfferene Tx1	xatal-ระห์ปฏิสู่งารสำนักเป็นการแห่งเหมู่หน่าสู	with		
10 dBm									
0 dBm									
-10 dBm		+							
-20 dBm							\		
-30 dBm							Habrard		MANNIN ALAMANINA
-40 dBm								• 0.	
-50 dBm									
CF 2.68 GHz		1		1001 pts		4.07 MHz/			Span 40.7 MHz
2 Result Summa Channe		Band	uidth		None	Power			
Tx1 (Ref Tx Total	)	20.000			ISEL	42.12 dBm 42.12 dBm			
							Aborted		11.11.2017 11:59:22

11:59:22 11.11.2017

## 3.2.RF Exposure

### 3.2.1.Applicable standard: FCC §2.1091 §1.1037

### 3.2.2.Limit

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated. Limits for Maximum Permissible Exposure (MPE)

### (B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	$(180/f^2)^*$	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
500-100,000			1.0	30

## 3.2.3.Test Data

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

S = EIRP/ 4лR²

Where: S = power density

EIRP= equivalent isotropically radiated power=ERP+2.15dB

R = distance to the center of radiation of the antenna=  $[(ERP+2.15dB)/4\pi S]^{1/2}$ 

According to §27.50, the effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 1000 Watts.

Frequency 2690MHz is between 1500MHz and 100,000MHz, and the Maximum S=1mW/cm<sup>2</sup>  $\Rightarrow$  R=4.22m.

This equipment should be installed and operated with minimum distance 4.22m between the radiator & your body.

### 3.2.4.Test Result: pass

## **3.3. Moudulation Characteristics**

3.3.1.Applicable Standard:

FCC §2.1047

3.3.2.Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Signal & Spectrum Analyzer	FSW26	SB12724/01	2017.6.19	2018.6.18
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2017.03.15	2018.03.15

\*statement of traceability: SMQ attests that all calibration has been performed per the A2LA requirements, traceable to NIM.

## 3.3.3.Test Procedure

LTE digital mode is used by EUT.

3.3.4. Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

- 3.3.5.Test Result: Pass
- 3.3.6.Test Mode: Transmitting LTE
- 3.3.7.Test Data:

# Single Carrier:

Channel Bandwidth :5M(2622.5MHz)							
Frequency (MHz)	Test mode	Port	EVM(%)				
		1	6.43				
	TM2.0	2	4.25				
	11112.0	3	3.8				
		4	3.73				
		1	2.76				
	TM3.1	2	2.77				
	11013.1	3	2.76				
		4	2.77				
2622.5		1	3.28				
	TMO O	2	3.28				
	TM3.2	3	3.28				
		4	3.29				
		1	5.02				
		2	6.88				
	TM3.3	3	6.91				
		4	6.9				

# 5M -2622.5MHz-TM2.0-Port 1 ~4:

Ref Level 47.40 dBm Fre Att 25 dB Offe		10de DLFDD,5 1IMO 1Tx/:		Count 1 of 1		rame All							SG
l Capture Buffer			3 EVM vs Cai		go2 Mino	3 Мах	5 Pov	ver Spe	ctrum			C	1 Clrv
Frame Start Offset : 2.09398 ms 55.4 dBm			18 %				-58 dBr	n/H					
53.4 dBm			16 %				-66 dBr	1 J					
بالديدا بمطرعه المتعامين البيراغان احتراب	a ha dan di di ka a da k	المرتد أدعد أفره المردام	14 %				-74 d5	- I I I I I I I I I I I I I I I I I I I					and a
ististiopa sussessistelete electric	kanktatktura shirrasandhi	Lealack Admitistrate	12 %				-74 us						
and the second second		and the second						<u> </u>					
adeal al de Contra da contra constituer la con-	háit su là sis chiráistí fis caile de		10 %				-90 dBr	· · ·			-		
.4 ;16	┉╻╴╷╴╷╴╴╴		8%	14 1.4			-98 dBr					+ +	
6.6 dBm		a to a state of	6%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<del>/   { </del>   +		-106 di	3m/Hz		_	-		
18.6 dBm			4 %		_ <mark> </mark> - - -		-114 di	3m/Hz					
30.6 dBm			2%	12 <b>12 22 2</b>	W 1 71		-122 di	3m/Hz				+	
	un a second			<ul> <li>K. M. Y. TEWS P. M. Index.</li> </ul>	N IF ANAL 28				766				
	1 ms/	20.1 ms	-3.84 MHz	768.0 kHz,		34 MHz			768	3.0 kH	z/	3.8	34 MH
Result Summary						stellatio		ram					
Frame Results 1/1	Mean	Мах	Limit	Mir	Points N	leasured :	4988		-				
EVM PDSCH QPSK (%)			18.50										
EVM PDSCH 16QAM (%)			13.50						- <del>49</del>				
EVM PDSCH 64QAM (%)	6.43	6.43	9.00	6.43	:			1 B	-				
EVM PDSCH 256QAM (%)							18	11 11	- 45				
	frames All, Selecti		me Results 1								* C		
EVM All (%)	3.65	4.01		2.53			19		*		Na.		
EVM Phys Channel (%)	4.78	5.28		2.96									
EVM Phys Signal (%)	1.29	1.69		1.00									
Frequency Error (Hz)	-4.86	0.87		-7.35							*	12	
Sampling Error (ppm)	0.16	0.43		0.01									
I/Q Offset (dB)	-43.65	-43.53		-43.84					1.1		<u>R</u>		
I/Q Gain Imbalance (dB)	-0.00 0.05	0.00 0.07		-0.01			1. Sec				1.1		
I/Q Quadrature Error (°) RSTP (dBm)	20,89	20.90		0.04					12		11 (C)		
OSTP (dBm)	20.89	20.90		20.88									
RSSI (dBm)	40.09	32.96 40.62		30.23				50. B.	1				
Power (dBm)	36.42	38.52		39.96					-				
Crest Factor (dB)	15.03	30.32		33.60	' II				20				
	15.05												
									•				

16:59:00 10.11.2017

MultiView 🗄 Spectrum	🖄 LTE	X													$\bigtriangledown$
RefLevel 47.40 dBm Freq Att 25 dB Offset		ode DL FDD, 5 IMO 1 Tx / 1		Count 1 of 1		Subframe	e All							5	SGL
1 Capture Buffer	. 43,40 GD MI		3 EVM vs Ca			Min <b>o</b> 3 M	ax	5 Power S	Spec	trum				<b>0</b> 1 0	lrw
Frame Brait Offset : 2,736429 ns 65.4 dBm 91.4 (Bm 91.4 ) 91.4 (Bm 91.4 (Bm 91.4 ) 91.4 (Bm 91		na in piantine to internationalistic	18 % 16 % 14 % 12 % 10 % 8 % 6 % 4 %					-58 dBm/Hz- -66 dBm/Hz- -74 dBm/Hz- -82 dBm/Hz- -90 dBm/Hz- -98 dBm/Hz- -106 dBm/Hz -114 dBm/Hz							
-30.6 dBm			2%	15 000	2 2 3			-122 dBm/Hz	-				-		
0.0 ms 2.01 r		20.1 ms	-3.84 MHz	768.0 kHz	/	3.84 M	Hz	-3.84 MH	z	768	3.0 kł	Ηz/	3	.84 M	ЛНz
2 Result Summary								Diagram							_
Frame Results 1/1	Mean	Мах	Limit	Mir	٦	oints Measur	red : •	4988		•					
EVM PDSCH QPSK (%)			18.50												
EVM PDSCH 16QAM (%)			13.50												
EVM PDSCH 64QAM (%)	4.25	4.25	9.00	4.25	5					· ·					
EVM PDSCH 256QAM (%)								1 1							
Results for Selection Subfra	mes All, Selecti	on Ant 1, Fra	me Results 1	/1	_			1. <b>1</b> . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				• <u>•</u>			
EVM All (%)	2.44	2.69		1.84								2			
EVM Phys Channel (%)	3.18	3.51		2.08	3			1		1 .					
EVM Phys Signal (%)	0.96	1.39		0.66											
Frequency Error (Hz)	-3.53	0.34		-5.37	7					1.1					
Sampling Error (ppm)	0.04	0.30		-0.20	ן ו		-						•		
I/Q Offset (dB)	-43.62	-43.53		-43.78	3		÷.,	S. S.		<del>.</del>					
I/Q Gain Imbalance (dB)	0.00	0.00		0.00	)										
I/Q Quadrature Error (°)	0.02	0.04		-0.0	ι    -			1 S. A.		1					
RSTP (dBm)	20.85	20.86		20.84	1							10			
OSTP (dBm)	31.62	32.86		30.07	7			64 <b>*</b> 59				1 - C			
RSSI (dBm)	40.07	40.60		39.93	3			* . · ·		1					
Power (dBm)	36.37	38,48		35.8						۰.					
Crest Factor (dB)	15.12									1.5					
		Sync Fo	und				\$	Ready	ji ji	•			10.1	1.201	7

#### 16:59:13 10.11.2017

MultiView 🕀 Spectrum				<b>T</b> 00 1				
RefLevel 47.40 dBm Freq Att 25 dB Offse		ode DL FDD, 5 N IMO 1 Tx / 1		eTime 20.1 ms Count 1 of 1 (1)	Subframe Al			SGL
1 Capture Buffer	C 40.40 GD 14		EVM vs Car		2 Min <b>o</b> 3 Max	5 Power Spec	trum	O1 Clrw
Frame Start Offset : 9.044762 ms								
65.4 dBm			8 %			-58 dBm/Hz		
53.4 dBm	A set of the second	1 1 1 1 1 1 1 1 1 1	6 %			-66 dBm/Hz		
AN NAME OF A CONTRACT OF A CON		1	4 %			-74 dBm/Hz		
		1	2 %			-82 dBm/Hz		
netice discount tarifation), and should a second	المتعل المتحد والمتعاد والمتعا	والتحدد بالرباباتين	0 %			-90 dBm/Hz		
5.4 dan si bi bi si bi si bi bi	u, lê ki xwî û, de ki di de ki ki di de ki		%			-98 dBm/Hz		
-6.6 dBm	ուիկ տիկ ոչ դեսել		%			-106 dBm/Hz		
						-114 dBm/Hz		
-18.6 dBm			% / / /					
-30.6 dBm		2	%	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S	-122 dBm/Hz		
0.0 ms 2.01	ms/	20.1 ms	3.84 MHz	768.0 kHz/	3.84 MHz	-3.84 MHz	768.0 kHz/	3.84 MHz
2 Result Summary	•			)	4 Constellatio	n Diagram	· · ·	
Frame Results 1/1	Mean	Мах	Limit	Min	Points Measured :			
EVM PDSCH QPSK (%)			18.50					
EVM PDSCH 160AM (%)			13.50		p.			
EVM PDSCH 640AM (%)	3.80	3.80	9.00	3.80	· · · ·		1.	
EVM PDSCH 256QAM (%)					1 5	1 4 1		
Results for Selection Subfra	imes All, Selecti	ion Ant 1, Fram	ne Results 1	/1		1 🕐 🕺 👘	1 C C 💽	
EVM All (%)	2.21	2.47		1.73		×		
EVM Phys Channel (%)	2.85	3.22		1.89		10 C - 10 C	1 · · · ·	
EVM Phys Signal (%)	0.94	1.45		0.63				
Frequency Error (Hz)	-3.44	0.57		-5.95			1 1 N N	
Sampling Error (ppm)	0.03	0.31		-0.14				+
I/Q Offset (dB)	-43.65	-43.55		-43.78	3	. * * *	* * *	
I/Q Gain Imbalance (dB)	-0.01	-0.01		-0.01				1 C
I/Q Quadrature Error (°)	0.04	0.04		0.04	× 1	1 in 1 in 1 in 1	1 1 1	
RSTP (dBm)	20.97	20.98		20.96		<u> </u>		
OSTP (dBm)	31.73	32.98		30.18	70	1967 - 1860 - 🐭	8 1 4	
RSSI (dBm)	40.18	40.72		40.04		1 A A A A A A A A A A A A A A A A A A A		
Power (dBm)	36.49	38.60		35.92	55 C		8 8 2	
Crest Factor (dB)	15.13							
							ł	
		Sync Fou	nd	,	÷		EXT /	10.11.2017
		Sync Fou	nu		· · ·	Ready .	REF	

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