



F	CC REPORT		
Report Reference No:	TRE1707003001 R/C: 80042		
FCC ID:	ZSW-30-047		
Applicant's name:	b mobile HK Limited		
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.		
Manufacturer	b mobile HK Limited		
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.		
Test item description:	Mobile Phone		
Trade Mark	Bmobile		
Model/Type reference	AX1015		
Listed Model(s)			
Standard:	FCC Part 22: PUBLIC MOBILE SERVICES FCC Part 24:PERSONAL COMMUNICATIONS SERVICES		
Date of receipt of test sample	Jul.05, 2017		
Date of testing	Jul.06, 2017- Jul.28, 2017		
Date of issue	Jul.29, 2017		
Result:	Pass		
Compiled by (position+printedname+signature):	File administrators Candy Liu		
Supervised by (position+printedname+signature):	Project Engineer Lion Cai		
Approved by (position+printedname+signature):	Manager Hans Hu Hows rue		
Testing Laboratory Name: :	: Shenzhen Huatongwei International Inspection Co., Ltd.		
Address	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		

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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	
1.1.	Applicable Standards	3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<u>4.</u>	TEST ENVIRONMENT	7
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Equipments Used during the Test	8
4.4.	Environmental conditions	9
4.5.	Statement of the measurement uncertainty	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	10
5.1.	Conducted Output Power	10
5.2.	99% & -26 dB Occupied Bandwidth	12
5.3.	Conducted Spurious Emissions	22
5.4.	Band Edge	27
5.5.	ERP and EIRP	37
5.6.	Radiated Spurious Emission	40
5.7.	Frequency stability V.S. Temperature measurement	46
5.8.	Frequency stability V.S. Voltagemeasurement	48
5.9.	Peak-Average Ratio	50
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	53
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	54

1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

TIA/EIA 603 D June 2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02</u>: provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Report version

Version No.	Date of issue	Description
00	Jul.29, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
	Part 2.1046	
RF Output Power	Part 22.913(a)	Pass
	Part 24.232(c)	
	Part 2.1049	
99% & -26 dB Occupied Bandwidth	Part 22.917(b)	Pass
	Part 24.238(b)	
	Part 2.1051	
Conducted Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1051	
Band Edge	Part 22.917	Pass
	Part 24.238	
ERP and EIRP	Part 22.913(a)	Pass
	Part 24.232(b)	F d 5 5
	Part 2.1053	
Radiated Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1055(a)(1)(b)	
Frequency stability vs. temperature	Part 22.255	Pass
	Part 24.235	
	Part 2.1055(d)(1)(2)	
Frequency stability vs. voltage	Part 22.255	Pass
	Part 24.235	
Peak-Average Ratio	Part 24.232	Pass

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	b mobile HK Limited	
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.	
Manufacturer:	b mobile HK Limited	
Address: Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Stre Kwai Chung; New Territories; Hong Kong.		

3.2. Product Description

Name of EUT:	Mobile Phone	
Trade Mark:	Bmobile	
Model No.:	AX1015	
Listed Model(s):	-	
IMEI:	861638030039908	
Power supply:	DC 3.8V From internal battery	
Adapter information:	Input:100-240Va.c., 50-60Hz, 0.2A Output: 5Vd.c.,500mA	
2G:		
Support Network:	GSM, GPRS, EGPRS	
Support Band:	GSM850, PCS1900	
Modulation:	GSM/GPRS/EGPRS: GMSK	
Transmit Frequency:	GSM850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz	
Receive Frequency:	GSM850: 869.20MHz-893.80MHz PCS1900: 1930.20MHz-1989.80MHz	
GPRS Class:	12	
EGPRS Class:	12	
Antenna type:	Integral Antenna	
Antenna gain:	GSM850:0dBi PCS1900:0dBi	
Hardware version:	SPR_S3215_V4.0	
Software version:	Bmobile_AX1015_TEM_V002	
3G:		
Operation Band:	FDD Band II and FDD Band V	
Power Class:	Power Class 3	
Modilation Type:	QPSK/16QAM/64QAM/HSUPA/HSDPA	
DC-HSUPA Release Version:	Not Supported	
Antenna type:	Integral Antenna	
Antenna gain:	Band II: 0dBi, Band V: 0dBi	

3.3. Operation state

Test frequency list

GSM850		PCS	1900
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

FDD Band II		FDD B	and V
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.4	4132	826.40
9400	1880.0	4183	836.60
9538	1907.6	4233	846.60

Test mode

For RF test items

The EUT has been tested under typical operating condition. The Applicant providessoftware to control the EUT for staying in continoustransmitting and receiving mode for testing.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

• - supplied by the manufacturer

C	- (supplied	by the	lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

Page: 7 of 59

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. **FCC-Registration No.: 762235**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235

IC-Registration No.: 5377B

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements .

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

	liance&Conducted Spuriou		•		
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
reque	ency Stability				
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
Dutput	Power (Radiated) & Radiate	d Spurious Emission			
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
4	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
7	TURNTABLE	MATURO	TT2.0		N/A
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
9	EMI Test Software	Audix	E3	N/A	N/A
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2016/11/13
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
12	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
13	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
20	TURNTABLE	ETS	2088	2149	2016/11/13
21	ANTENNA MAST	ETS	2075	2346	2016/11/13
22	HORNANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
23	HORNANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C
lative Humidity	30~60 %
Air Pressure	950-1050 hPa

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	MeasurementUncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

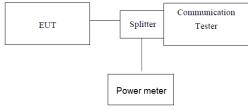
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Report No.: TRE1707003001

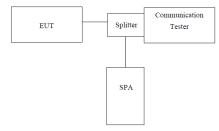
Page: 11 of 59

EUT Mode	Channel	Frequency (MHz)	Power (dBm)
	128	824.20	32.55
GSM 850 (GMSK)	190	836.60	32.48
(Cimorit)	251	848.80	32.78
	128	824.20	32.54
GPRS850 (GMSK,1Slot)	190	836.60	32.46
	251	848.80	32.77
50550050	128	824.20	32.52
EGPRS850 (GMSK,1Slot)	190	836.60	32.46
(GIMOR, 10101)	251	848.80	32.73
	512	1850.20	28.08
PCS1900 (GMSK)	661	1880.00	28.71
(GMOR)	810	1909.80	28.83
	512	1850.20	28.11
GPRS1900 (GMSK,1Slot)	661	1880.00	28.72
	810	1909.80	28.84
	512	1850.20	28.09
EGPRS1900 (GMSK,1Slot)	661	1880.00	28.69
(GIMOR, 10101)	810	1909.80	28.83
	9262	1852.40	22.74
WCDMA Band II	9400	1880.00	22.87
	9538	1907.60	22.96
	4132	826.40	22.32
WCDMA Band V	4183	836.60	22.36
	4233	846.60	22.42

5.2. 99% & -26 dB Occupied Bandwidth

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Report No.: TRE1707003001

Page: 13 of 59

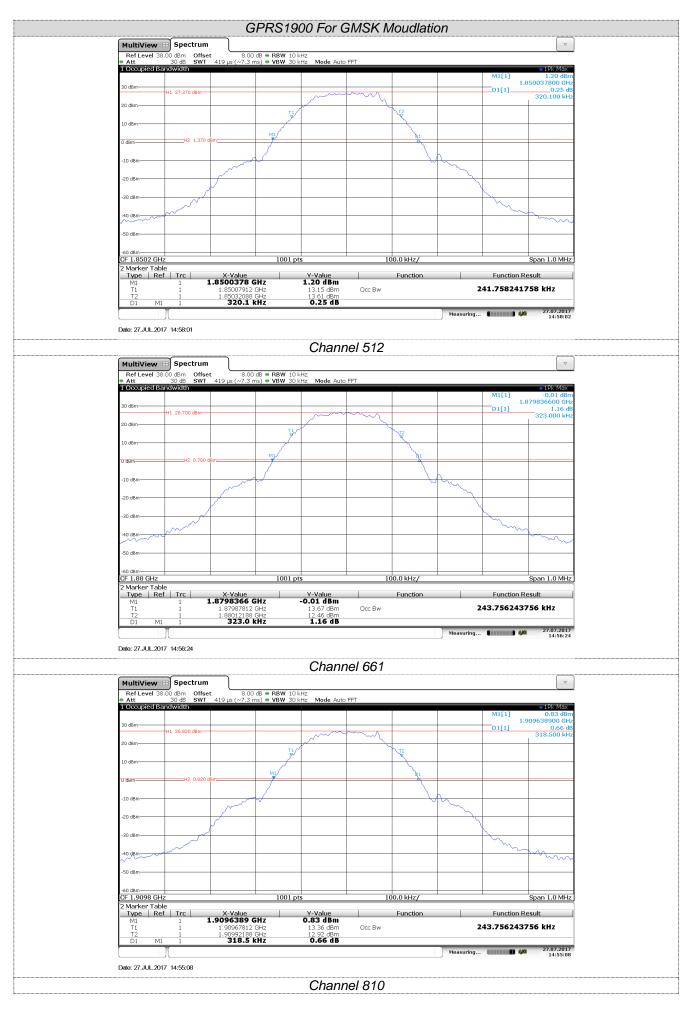
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
	128	824.20	246.75	323.30
GSM 850 (GMSK)	190	836.60	243.75	321.60
(Childrey)	251	848.80	244.75	320.00
	128	824.20	243.75	322.00
GPRS850 (GMSK,1Slot)	190	836.60	242.75	321.60
	251	848.80	244.75	323.00
50000050	128	824.20	245.75	320.60
EGPRS850 (GMSK,1Slot)	190	836.60	245.75	323.90
	251	848.80	244.75	317.90
	512	1850.20	244.75	320.30
PCS1900 (GMSK)	661	1880.00	245.75	322.20
(Civicity)	810	1909.80	243.75	320.20
	512	1850.20	241.75	320.10
GPRS1900 (GMSK,1Slot)	661	1880.00	243.75	323.00
	810	1909.80	243.75	318.50
	512	1850.20	243.75	322.90
EGPRS1900 (GMSK,1Slot)	661	1880.00	243.75	323.00
	810	1909.80	245.75	320.20
	9262	1852.40	4095.90	4682.00
WCDMA Band II	9400	1880.00	4085.91	4686.00
	9538	1907.60	4095.90	4695.00
	4132	826.40	4085.91	4660.00
WCDMA Band V	4183	836.60	4085.91	4660.00
	4233	846.60	4095.90	4682.00



		G	SPRS85	50 For G	MSK M	oudlatio	n		
MultiView									▼
Ref Level 38.0 Att	00 dBm Offset 30 dB SWT	t 8.00 419 µs (~7.3 m	dB = RBW 10 k ns) = VBW 30 k	<hz <hz auto<="" mode="" td=""><td>FFT</td><td></td><td></td><td></td><td></td></hz></hz 	FFT				
1 Occupied Ban								M1[1]	●1Pk Max 3.93 dBm 24.037500 MHz
-30-dBm	H1 30.060 dBm			·~~~	m			D1[1]	0.34 dB 322.000 kHz
20 dBm			Ţ.		~	V2			
10 dBm			MI			<u> </u>			
0 dBm	H2 4.060 d	Bm				<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>			
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-20 dBm-	بر								
-30 dBm								- North	
-40 dBm								~~~	from
-50 dBm									
-60 dBm									
CF 824.2 MHz 2 Marker Table			1001 pt		10	0.0 kHz/			Span 1.0 MHz
Type Ref	1 1	X-Value 824.0375 M	IHz	Y-Value 3.93 dBm		Function		Function R	
T1 T2 D1 M1	1	824.078122 824.321878 <b>322.0</b>	MHZ MHZ KHZ	17.13 dBm 16.29 dBm <b>0.34 dB</b>	Occ Bw			43.730243	<b>730 KH</b> 2
	_						Measuring		27.07.2017 14:36:23
Date: 27.JUL.2017	14:36:23								
				Chanr	nel 128				
MultiView 🔠		$\overline{}$							▽
Ref Level 38.0 Att	30 dB SWT	t 8.00 419 µs (~7.3 m	dB <b>= RBW</b> 10 k ns) <b>= VBW</b> 30 k	<hz <hz auto<="" mode="" td=""><td>FFT</td><td></td><td></td><td></td><td></td></hz></hz 	FFT				
1 Occupied Ban								M1[1]	●1Pk Max 4.63 dBm 36.437200 MHz
30 dBm	H1 30.660 dBm				- James and a			D1[1]	0.82 dB 321.600 kHz
20 dBm			<u>,</u>	4	<u></u>	N. T.S.			
10 dBm			M1/			101			
0 dBm	H2 4.660 d	Bm	1						
-10 dBm			$\checkmark$				h		
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-30 dBm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							- Jun	
-40 dBm	<u> </u>								June
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CF 836.6 MHz 2 Marker Table		V 11-7	1001 pt		10	0.0 kHz/	1		Span 1.0 MHz
<u>Type Ref</u> M1 T1	1 1	X-Value 836.4372 M 836.479121	IHz MHz	Y-Value 4.63 dBm 17.10 dBm	Occ Bw	Function	, , , , , , , , , , , , , , , , , , , ,	Function R	
T2 D1 M1	1	836.479121 836.721878 <b>321.6</b>	MHz (Hz	17.10 dBm 16.90 dBm 0.82 dB					
							Measuring		27.07.2017 14:34:44
Date: 27.JUL.2017	14:34:45								
				Chanr	nel 190				
MultiView				/H7					
Ref Level 38.0 Att 1 Occupied Ban	30 dB SWT	⊾ 8.00 419 μs (~7.3 m	uo <b>= RBW</b> 10 k is) <b>= VBW</b> 30 k	<hz <hz auto<="" mode="" td=""><td>FFT</td><td></td><td></td><td></td><td>●1Pk Max</td></hz></hz 	FFT				●1Pk Max
	H1 30.310 dBm								4.34 dBm 48.639000 MHz
	30.310 dBm				ment			D1[1]	0.02 dB 323.000 kHz
20 dBm			THE STREET			A STR			
10 dBm	H2 4.310 d	800	MI			91			
0 dBm		0111							
-10 dBm			$\checkmark$				m.		
-20 dBm							$\vdash$		
-30 d8m								$\sum$	
	/مسہر							~~~~	$ \downarrow $
-40 dBm									June
-50 dBm									
-60 dBm CF 848.8 MHz			1001 pt	:s	10	0.0 kHz/			Span 1.0 MHz
	Trc	X-Value			10	Function		Function R	
2 Marker Table Type   Ref		X-Value 848.639 M	Hz	Y-Value 4.34 dBm			-		
Type         Ref           M1         T1	1 1	848.677123	MHz	16.80 dBm	Occ Bw		2	44.7552447	755 KHZ
Type Ref	1	848.677123 848.921878 <b>323.0 I</b>	MHz MHz KHZ	16.80 dBm 16.84 dBm <b>0.02 dB</b>	Occ Bw				
Type         Ref           M1         T1           T2         D1		848.677123 848.921878 323.0 I	MHz MHz KHZ	16.80 dBm 16.84 dBm 0.02 dB	Occ Bw			44.7552447	
Type         Ref           M1         T1           T2         T2		848.677123 848.921878 <b>323.0</b>	MHz MHz CHZ	16.80 dBm 16.84 dBm 0.02 dB					27.07.2017

MultiView Ref Level 3 Att			350.00	50 For G	11VINDAN IV		ON		
Ref Level 3	🗄 Spectrum		01 1100			louuluu	011		
			dB = RBW 104	Hz Hz Mode Auto	FFT				
1 Occupied B	andwidth							M1[1]	<ul> <li>1Pk Max</li> <li>4.55 dBm</li> </ul>
30 dBm	H1 30.540 dBm			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mony			01[1]	24.040600 MHz 0.10 dB
20 dBm			T1/2	/	~~	12			320.600 kHz
10 dBm						$\sum$			
	H2 4.540 d	18m-	MI			R1			
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-20 dBm		/							
-30 dBm								<u>}</u>	
-40 dBm	m							~~~	~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-50 dBm									
-60 dBm CF 824.2 MHz	z		1001 pt	s	10	0.0 kHz/			Span 1.0 MHz
2 Marker Tab Type Re	ef Trc	X-Value		Y-Value		Function		Function R	
M1 T1	1 1	824.0406 M 824.077123 f	MHz	4.55 dBm 16.96 dBm	Occ Bw		2	45.7542457	
T2 D1 M	1 1	824.322877 320.6 k	MHz KHZ	16.77 dBm 0.10 dB					
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MultiView 8	- Spectrum	1		900 For	00				
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-60 dBm CF 1.8502 GHz			1001 pt	S	10	00.0 kHz/			Span 1.0 MHz
2 Marker Table Type Ref	f Trc	X-Value	iH7	Y-Value 0.83 dBm		Function		Function Re	esult
M1 T1 T2	1	1.85007812 1.85032188	GHz GHz	13.83 dBm 13.59 dBm	Occ Bw		2	43.7562437	56 kHz
D1 M1	1	322.9	(Hz	0.87 dB			Measuring	(	27.07.2017
Date: 27.JUL.201	7 15:03:40								15:03:40
				Chanr	nel 512				
MultiView	Spectrum			Shan					~
Ref Level 38 Att	.00 dBm Offse 30 dB SWT	ε 8.00 419 μs (~7.3 n	dB <b>= RBW</b> 10 k ns) <b>= VBW</b> 30 k	Hz Hz Mode Auto	FFT				
1 Occupied Ba	ndwidth							M1[1]	<ul> <li>1Pk Max</li> <li>1.07 dBm</li> <li>379837800 GHz</li> </ul>
30 dBm	H1 27.200 dBm			~~~~	m			D1[1]	0.36 dB 323.000 kHz
20 dBm			<u></u>	~~··		12			
10 dBm									
0 dBm	H2 1.200 d	Bm	M1						
-10 dBm							~		
-20 dBm							- Marine - M		
-30 dBm	~	/						~	
-40 dBm	m							~~~~	
m									m
-50 dBm									
-60 dBm CF 1.88 GHz			1001 pt	s	10	00.0 kHz/			Span 1.0 MHz
CF 1.88 GHz 2 Marker Tabl Type   Ref	f   Trc	X-Value			10	00.0 kHz/ Function		Function Re	
CF 1.88 GHz 2 Marker Table Type   Ref M1 T1 T2	f   Trc   1 1 1 1	8798378 0	iHz	Y-Value 1.07 dBm	Occ Bw		2	Function Re	esult
CF 1.88 GHz 2 Marker Table Type   Ref M1 T1	f   Trc   1 1 1 1	X-Value 8798378 ( 1.87987812 1.88012188 323.0 1	iHz						esult 256 kHz 27.07.2017
CF 1.88 GHz 2 Marker Table Type   Ref M1 T1 T2	f Trc 1 1 1 1 1 1 1 J	8798378 0	iHz	Y-Value 1.07 dBm				43.7562437	esult <b>'56 kH</b> z
CF 1.88 GHz 2 Marker Table Type   Ref M1 T1 T2 D1 M1	f Trc 1 1 1 1 1 1 1 J	8798378 0	iHz	Y-Value 1.07 dBm	Occ Bw			43.7562437	esult 256 kHz 27.07.2017
CF         1.88         GHz           2 Marker Table         Type         Ref           Min         T1         T2           D1         M1         T2           D2         Marker Table         Marker Table           Marker Table         Marker Table         Marker Table           D1         M1         T2         Marker Table           D2         Marker Table         Marker Table         Marker Table           Marker Table         Marker Table         Marker Table         Marker Table	f Trc 1 1 1 1 7 15:02:37 Spectrum	8798378 ( 1.87987812 1.88012188 323.0	iHz GHz GH2 HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann	Occ Bw			43.7562437	esult 256 kHz 27.07.2017
CF 1.88 GHz           2 Marker Table           Type R           M1           T1           T2           D1           Marker Table           Marker Table           Marker Table           Minimum           Date: 27.JUL 201           MultiView           Ref Level 38           Att	f Trc 1 1 1 7 7 15:02:37 Spectrum 00 dBm Offse SwT		HZ GHZ CHZ HZ dB • RBW 10 k	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann	Occ Bw			43.7562437	esult 256 kHz 27.07.2017 15:02:37
CF 1.88 GHz 2 Marker Tabl Type R M1 T1 T2 D1 M1 D1 M1 Date: 27.JUL 201 MultiView Ref Level 38 # Att 1 Occupied B2	f Trc 1 1 1 7 7 15:02:37 Spectrum 00 dBm Offse SwT		HZ GHZ CHZ HZ dB • RBW 10 k	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw			43.7562437	27.07.2017 15:02:37
CF 1.88 GHz           2 Marker Table           Type   Ref           Mil           Ti           D1           D1           D1           MultiView           Ref Level 38           Att           JO dBm-	f Trc 1 1 1 7 7 15:02:37 Spectrum 00 dBm Offse SwT		HZ GHZ CHZ HZ dB • RBW 10 k	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw			43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz 2 Marker Tabl Type R M1 T1 T2 D1 M1 D1 M1 Date: 27.JUL.201 MultiView Ref Level 38 # Att 1 Occupied B2	f Trc 1 1 1 1 7 15:02:37 7 15:02:37 30 dB Offse 30 dB SWT mdW/dth		HZ GHZ CHZ HZ dB • RBW 10 k	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw			43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type   Ref           Mil           Ti           D1           D1           D1           MultiView           Ref Level 38           Att           JO dBm-	f Trc 1 1 1 1 7 15:02:37 7 15:02:37 30 dB Offse 30 dB SWT mdW/dth		Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Tabl           Type 1           T1           T2           D1           T1           T2           D1           MultiView           Ref Level 38           Att           T Occupied Ba           30 dBm	f Trc 1 1 1 1 7 15:02:37 7 15:02:37 30 dB Offse 30 dB SWT mdW/dth	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GHz GHz Hz dB • RBW 10 k s) • VBW 30 k	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type Ref           Mi           T1           D1           T1           D2           D1           MultiView           Ref Level 38           Att           10 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type   Ref           Mil           T1           D1           D1           D1           MultiView           Ref Level 38           * Att           1 Occupied Ba           30 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Tabl           Type 1           T1           T2           D1           T1           T2           D1           MultiView           Ref Level 38           Att           TOCCUPICE B2           30 dBm           10 dBm           0 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type Ref           Mil           T1           D1           T1           D2           D1           MultiView           Ref Level 38           Att           20 dBm           10 dBm           -10 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Tabl           Type 1           Type 1           T1           T2           D1           MultiView           Ref Level 38           Att           10 dBm           20 dBm           10 dBm           -20 dBm           -30 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type Ref           Mil           T1           D1           T1           D2           MultiView           Ref Level 38           Att           20 dBm           10 dBm           -0 dBm           -30 dBm           -30 dBm	f         Trc           1         1           1         1           1         1           7         15:02:37           Spectrum         Offse           30 dB         SWT           mdw/dith         H1 27:130 dBm	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	Y-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Hz	Occ Bw	Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Table           Type Ref           Mil           T1           D1           T1           D1           T1           D2           D1           MultiView           Ref Level 38           Att           20 dBm           10 dBm           20 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -60 dBm           CF 1.9098 GH2	F Trc 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.8798378 ( 1.87987812 1.88012188 323.0 I 419 μs (~7.3 n	Hz GH2 GH2 HZ HZ HZ HZ HZ HZ HZ HZ HZ HZ	V-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Chann Chann		Function		43.7562437	esult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Tabl           Type I           MultiView           E           MultiView           Ref Level 38           Att           10 d8m           20 d8m           10 d8m           -20 d8m           -30 d8m           -40 d8m           -20 d8m	F         Trc           1         1           1         1           7         15:02:37           Spectrum         Oddm Offset           30 dB         Offset           30 dB         Switz           rdWidth         H1 27:130 dBm           H2 1:130 d         H2	.8798378 (2 1.87907812 1.88012188 323.0 I 8.00 419 µs (~7.3 п	Hz Hz GHz GHz (Hz S) • VBW 30 k S) • VBW 30 k MU 1001 pt	V-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chanr Chanr Chanr S V-Value 0.80 dBm	Occ Bw	Function	Measuring	43.7562437	Span 1.0 MHz     Span 1.0 MHz
CF 1.88 GHz           2 Marker Parker           2 Marker Parker           Type           Ref           Mil           Ti           Di           Mil           Ti           Di           Mil           Ti           Di           MultiView           Ref Level 38           Attraction           20 dBm           20 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           -70 dBm	F         Trc           1         1           1         1           7         15:02:37           Spectrum         Oddm Offset           30 dB         Offset           30 dB         Switz           rdWidth         H1 27:130 dBm           H2 1:130 dBm         H2 1:130 dBm           H2 1:130 dBm         H2 1:130 dBm	.8798378 (2 1.87987812 1.88012188 323.0 I 323.0 I 419 µs (~7.3 п 419 µs (~7.3 п	Hz Hz GHz GHz GHz Hz Hz 1001 pt Hz GHz	V-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Chann Chann Chann S V-Value 0.80 dBm 13.16 dBm 13.16 dBm		Function	Measuring	43.7562437	Span 1.0 MHz     Span 1.0 MHz
CF 1.88 GHz           2 Marker Table           Type   Ref           Mil           T1           D1           T1           D1           Mil           T1           D1           Marker Table           T0           MultiView           Ref Level 38           Att           10 d8m           20 d8m           -10 d8m           -20 d8m           -30 d8m           -30 d8m           -20 d8m           -20 d8m           -30 d8m           -20 d8m           -30 d8m           -20 d8m           -30 d8m           -30 d8m           -30 d8m           -20 d8m           -30 d8m	F         Trc           1         1           1         1           7         15:02:37           Spectrum         Oddm Offset           30 dB         Offset           30 dB         Switz           rdWidth         H1 27:130 dBm           H2 1:130 dBm         H2 1:130 dBm           H2 1:130 dBm         H2 1:130 dBm	.8798378 (2 1.87907812 1.88012188 323.0 I 8.00 419 µs (~7.3 п	Hz Hz GHz GHz GHz Hz Hz 1001 pt Hz GHz	V-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Chann Chann Chann S V-Value 0.80 dBm 13.37 dBm	Occ Bw	Function		43.7562437	ssult 256 kHz 27.07.2017 15:02:37 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
CF 1.88 GHz           2 Marker Parker           2 Marker Parker           Type           Ref           Mil           Ti           Di           Mil           Ti           Di           Mil           Ti           Di           MultiView           Ref Level 38           Att           So dBm           20 dBm           10 dBm           Di dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           CF 1.9098 GH2           Z Marker Table           Type           Ref           Ti           T2	F         Trc           1         1           1         1           7         15:02:37           Spectrum         00 dbm Offsee           30 db Swt         Swt           mdWidth         H1 27:130 dbm           H2 1:130 dbm         H2           I         1           I         1           I         1	.8798378 (2 1.87987812 1.88012188 323.0 I 323.0 I 419 µs (~7.3 п 419 µs (~7.3 п	Hz Hz GHz GHz GHz Hz Hz 1001 pt Hz GHz	V-Value 1.07 dBm 13.11 dBm 13.45 dBm 0.36 dB Chann Chann Chann Chann S V-Value 0.80 dBm 13.16 dBm 13.16 dBm	Occ Bw	Function		43.7562437	ssult 256 kHz 27.07.2017 15:02:37 ■ 1Fk Max 0.80 dBm 320.200 kHz 0.69 dBm 320.200 kHz Span 1.0 MHz ssult 27.02.2017

### Report No.: TRE1707003001

Eventury     Spectrom     Spect					WCDM	A Band I	1			
Incomparison     Incomparison     Incomparison     Incomparison       Incomp										
Hard and a second	Ref Level 35 Att	5.00 dBm Offse 28 dB SWT	t 8.0 41.84 µs (~6.9	00 dB <b>= RBW</b> 10 9 ms) <b>= VBW</b> 30	00 kHz 10 kHz Mode A	luto FFT				
Image: Sector		andwidth							M1[1]	-7.55 dBm
All of the second of the										0.87 dB
i da de la ser l	.20.d8m	H1 19.160 dBm	т	· ·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		m	12		
a din       a din       a din       a din         a din       a din       a din       a din       a din         a din       a din       a din       a din       a din       a din         a din       a din       a din       a din       a din       a din       a din         a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a din       a di	10 dBm		7	2				Č.		
Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector     Image: Sector     Image: Sector       Image: Sector     Image: Sector     Image: Sector <t< td=""><td>0 dBm</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	0 dBm									
0.85     0.85     0.95       0.85     0.95       0.85     1.001 ps       1.001 ps     1.004 ps       1.001 ps     1.0	-10 dBm	H2 -6.840	dBm							
So. doc     Control of the second secon	-20 dBm	h	m					~~		
a an and a second a s	-30 dBm									
ta don- ta										
adam     1000 pts     1.00%tr/     Steam 10.0 Mtr/       View 1000     1.00%tr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     1.00%tr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     1.00%tr/     Steam 10.0 Mtr/     Ausstandard       View 1000     1.00%tr/     Steam 10.0 Mtr/     Ausstandard       View 1000     1.00%tr/     0.0 fb/     Ausstandard       View 1000     Steam 10.0 Mtr/     0.0 fb/     Ausstandard       View 1000     Steam 10.0 Mtr/     0.0 fb/     Ausstandard       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     View 10.0 Mtr/       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     View 10.0 Mtr/       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     View 10.0 Mtr/       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     View 10.0 Mtr/       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     View 10.0 Mtr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     Steam 10.0 Mtr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     View 10.0 Mtr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000     View 10.0 Mtr/     Steam 10.0 Mtr/     Steam 10.0 Mtr/       View 1000										
Extraction       Control pine       Do Marker       Special Do Wei         Marker Falle       Control pine       Use of the second pine second p	-50 dBm									
21 Mode reads										
The second of the sec	2 Marker Tab	le				1				
Dir         Aussel         Aussel <td>M1</td> <td>1</td> <td>L.850056 GI</td> <td>Hz ·</td> <td>-7.55 dBm</td> <td>Occ Bw</td> <td>Function</td> <td></td> <td></td> <td></td>	M1	1	L.850056 GI	Hz ·	-7.55 dBm	Occ Bw	Function			
Del:         Del: <thdel:< th="">         Del:         Del:         <thd< td=""><td>T2</td><td>î</td><td>1.854448 G 4.682 MI</td><td>Hz Hz</td><td>9.62 dBm 0.87 dB</td><td>OCC BW</td><td></td><td></td><td>4.09390403</td><td>o mnz</td></thd<></thdel:<>	T2	î	1.854448 G 4.682 MI	Hz Hz	9.62 dBm 0.87 dB	OCC BW			4.09390403	o mnz
Channel 9262         Implementation of the NEW 1051/12         Implementation of the NE								Measuring		27.07.2017 16:02:04
Multiview         Spectrum	Date: 27.JUL.201	17 16:02:04								
Ref Let 3500 dem         S 00 de REW 100 HT         S 1,04 (1,-0.5 m) = VEX 20 HT         S 1,05 (1,-0.5 m) = VEX 20					Chann	el 9262				
LCCCUGE Bankwellin         MITU BURKAND           10 Ban         MITU BURKAND           10 Ban         11 BANS           10 Ban         11 BA	MultiView	B Spectrum								▼
in dem	Att	5.00 dBm Offse 28 dB SWT	t 8.0 41.84 µs (~6.9	00 dB <b>= RBW</b> 10 9 ms) <b>= VBW</b> 30	00 kHz 00 kHz Mode A	Auto FFT				
2. 30         0111         0.000         0.000           0 80         1         0.000         0.000         0.000           10 80         10         0.000         0.000         0.000         0.000           10 80         10         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.0000         0.000         0.000 <td< td=""><td></td><td>andwidth</td><td></td><td></td><td></td><td></td><td></td><td></td><td>M1[1]</td><td>-7.42 dBm</td></td<>		andwidth							M1[1]	-7.42 dBm
Interview       Spectrum									D1[1]	0.58 dB
adm         12         2.00 db         1         1.00 Hz/L         Span 10.0 Mz/L           adm         1         1.00 Hz/L         Span 10.0 Mz/L         Span 10.0 Mz/L           adm         1         1.07558 GH/L         1.00 Hz/L         Span 10.0 Mz/L           Varier Table         Value         Function         Function Result           Till         1         1.07558 GH/L         0.05 Bit         0.05 Bit           Di         Mi         1         1.07558 GH/L         0.05 Bit         0.05 Bit           Di         Mi         1         1.07558 GH/L         0.05 Bit         0.05 Bit         0.05 Bit           Di         Mi         1         1.07558 GH/L         0.05 Bit         0.05 Bit         0.05 Bit           Di         Mi         1         0.0758 GH/L         0.05 Bit         0.05 Bit         0.05 Bit           Di         Mi         1         0.0758 GH/L         0.05 Bit         0.05 Bit         0.05 Bit           Di         Mi         1         0.00 dit         1.00 Mz/L         0.00 dit         1.00 Mz/L           Di         Mi         1         0.00 dit         1.00 Mz/L         0.00 dit         1.00 Mz/L           Di <td< td=""><td>.20 dBm</td><td>H1 18.990 dBm</td><td>т</td><td>· ·····</td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>m</td><td>men in</td><td>2</td><td></td><td></td></td<>	.20 dBm	H1 18.990 dBm	т	· ·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	men in	2		
Image: Note of the second se	10 dBm		7							
10 dim       0 dim       <	0 dBm		M					$\sum_{i=1}^{n}$		
30 @m         4.0850 MHz         1001 pts         1.0 MHz/         Span 10.0 MHz           20 @m         1001 pts         1.0 MHz/         Span 10.0 MHz           20 @m         1011 pts         1.0 MHz/         Span 10.0 MHz           20 @m         1011 pts         1.0 MHz/         Span 10.0 MHz           20 @m         1011 pts         1.0 MHz/         Span 10.0 MHz           21 T2         1         1.877555 GHz         -7.42 @m         Function         Function Result           11 T2         1         1.877555 GHz         -7.42 @m         Common State         A.085914036 MHz         207.007           12 T1         1         4.686 MHz         0.55 dB         Wessurfig         4.085914036 MHz         207.007           Det: Z7.4UL.2017 160c17         Channel 94000         V         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.0000         20.00000         20.0000         20.00000	-10 dBm	H2 -7.010								
40 dbm	-20 dBm	h	~~					hun	m	
40 dbm	-30 dBm									m
So dia         Image: Comparison of the comparison o										
Or Bin         Operation         Span 10.0 MHz/         Span 10.0 MHz/         Span 10.0 MHz/         Span 10.0 MHz/           2 Marker Table         Trc         X-Value         -7.42 dBm         Occ BW         4.085914086 MHz         1           1 1         1.87795 GHz         10.1 B dBm         Occ BW         4.085914086 MHz         1           D1         1         1.87795 GHz         10.1 B dBm         Occ BW         4.085914086 MHz         1           D2         Mi         1         4.686 MHz         0.55 dB         0.52 dB         27072017           Dete: 27.4L.2017 1604:17         Channel 9400         F         10.0111         10.025 MHz         10.0111           1         1.0025 MHz         8.00 dB = RBW 100 HHz         Mode Auto FT         10.0052 MHZ         0.52 dB           10 dBm         0.00 dB = RBW 100 HHz         Mode Auto FT         10.0052 MHZ         0.052 MHZ         0.052 MHZ           10 dBm         0.00 dB = RBW 100 HHz         Mode Auto FT         10.0052 MHZ         0.052 MH	-40 dBm									
CF 1.88 GHz         1001 pts         1.0 MHz/         Span 10.0 MHz/           2 Marker Table         Trc         X Value         Function         Function Result           1         1         1.977655 GHz         -7.42 dBm         Function         Function Result           11         1         1.977655 GHz         -7.42 dBm         Occ BW         4.085914086 MHz           11         1         1.97058 GHz         0.58 dB         Occ BW         4.085914086 MHz           12         1         1.97058 GHz         0.58 dB         Occ BW         4.085914086 MHz           12         1         4.686 MHz         0.58 dB         Occ BW         4.085914086 MHz           13         4.686 MHz         0.58 dB         Occ BW         4.085914086 MHz         0.58 dB           Channel 94000           MattyTew         Spectrum         v         v         v         v           Soc B         SWT         41.84 µz (<< 9 m) = VBW 300 Hz	-50 dBm									
Water Table         V-Value         Function         Function Result           Mile         1         1.8776556         CHz         -7.42         Chan         Coc Bw         4.085914086         MHz           D1         1         1.877656         CHz         -7.42         Chan         Coc Bw         4.085914086         MHz           D1         1         1.877656         CHz         10.12         Chan         Coc Bw         4.085914086         MHz         27.07.2917           D1         M1         4.665         MHz         0.58         B         27.07.2917         16.0617           Chancel 9400           Measuring         Channel 9400           Mile Will So dem Offset         8.00 dB = BBW 100 kHz         v           Mile Will So dem Offset         8.00 dB = BBW 100 kHz         v         v           Mile Will So dem Offset         8.00 dB = BBW 100 kHz         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v         v										
Mit         1.877555 GHz         -7.42 dBm         Doc Bw         4.085914086 MHz           1         1.877552 GHz         1018 dBm         Doc Bw         4.085914086 MHz           1         1.87252 GHz         1012 dBm         Doc Bw         4.085914086 MHz           1         1.87252 GHz         1012 dBm         Doc Bw         27072917           Channel 9400           Mattiview         Spectrum         Channel 9400           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           0 dm           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           Mit 1.84 µg (-6.9 mg) = VBW 300 kHz           0 dm           0 dm           0 dm           0 dm           0 dm           0 dm <td>2 Marker Tab</td> <td></td> <td></td> <td>1001 pt</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	2 Marker Tab			1001 pt		1				
T2       1       1.882038 GHz       10.12 dBm         D1       M1       1       4.885 MHz       0.58 dB         Dete: 27.307.2017         Dete: 27.307.2017         Channel 94000         Image: Spectrum       Image: Spectrum         Reflexed 35.00 dBm offset       8.00 dB = RBW 100 Hz         Add colspan="2">All Levi 35.00 dBm offset       Image: Spectrum         Image: Spectrum       Image: Spectrum         Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum       Image: Spectrum	M1		L.877656 GI	Hz	-7.42 dBm		Function			
Measuring	T2	1 1 1	1.882038 G	Hz	10.18 dBm 10.12 dBm 0.58 dB	Occ Bw			4.08591408	66 MHZ
Channel 94000         V         Notice 100 Ht         Att 200 dB wT 41.84 µs (rd.9 ms) # VBW 300 Htz Mode Auto PFT         192 Mode         192 Mode         30 dBm       0 dBm       01[1]       0.52 dB         10 dBm       1       0.52 dB       0.52 dB         -10 dBm       1       0.52 dB       0.0 Htz       0.0 Htz         -0 dBm       -0 dBm       -0.0 Htz       Span 10.0 Mtz         -0 dBm       -0.0 Htz       -7.81 dBm       0.0 Htz       Span 10.0 Mtz         -10 dBm       -0.0 Htz       -7.81 dBm       0.0 Mtz       Span 10.0 Mtz         -0 dBm       -0.0 Htz       Span 10.0 Mtz       Span 10.0 Mtz       Span 10.0 Mtz         -10 dBm       -0.0 Mtz       -7.81 dBm       Occ Bw       4.095904096 Mtz       50.0 Mtz         -10 dBm       1       1.905321 Gtz       10.1 2 dBm       Occ Bw       4.095904096 Mtz       50.0 Mtz         -11       1       1.905321 Gtz       10.0 2 dBm       Occ Bw       4.095904096 Mtz       50.0 Sta         10 Mt       1       1.905321 Gtz       0.52 dB       0.02 dBm       0cc Bw       4.095904096 Mtz       50.05.6 Bm								Measuring		27.07.2017 16:04:17
Multiview         Spectrum         v           Ref Level 35.00 dBm         Offset         8.00 dB * RBW 100 kHz         200 dBm         2015k M33           1 Occupied Examination         14.84 µs (x46.9 ms) * VBW 300 kHz         Mode Auto PFT         215k M33           10 dBm         1.90524 H00 GHz         01[1]         7.81 dBm         0.52 dB           20 dBm         H1 18.930 dBm         1.90524 H00 GHz         0.52 dB         0.52 dB           10 dBm         4.695200 MHz         31         1.90524 H00 GHz         0.52 dB           10 dBm         4.695200 MHz         31         1.90524 GHz         0.52 dB           10 dBm         4.69520 MHz         31         1.90524 GHz         1.90524 GHz           -00 dBm         -0.00 HHz         Span 10.0 MHz         Span 10.0 MHz           20 dBm         1.9076 GHz         1001 pts         1.0 MHz/         Span 10.0 MHz         Span 10.0 MHz         2100 dBm         -7.81 dBm <t< td=""><td>Date: 27.JUL.201</td><td>17 16:04:17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Date: 27.JUL.201	17 16:04:17								
Ref Level 35.0 dBm         Offset         8.00 dB * RBW 100 kHz           10 Occupied BandWidth         41.84 µs (~6.9 ms) * VBW 300 kHz         10 million 7.81 dBm           20 dBm         0111         -7.81 dBm         0111           20 dBm         0111         -0.52 dB         -0.52 dB           20 dBm         10 dBm         0111         -0.52 dB           20 dBm         11 dBm         -0.52 dB         -0.52 dB           20 dBm         12 dBm         -0.52 dB         -0.52 dB           20 dBm         -0.52 dB         -7.81 dBm         -0.52 dB           20 dBm         -0.52 dB         -7.61 dBm         -0.52 dB           20 dBm         -0.52 dB         -0.52 dB         -7.95 dBm					Chann	el 9400				
I Occupied Bandwidth         I Decupied Bandwidth         I Decupie										
30 dBm         M1[1]         -7.81 dBm           20 dBm         H1         18.930 dBm         0.52 dB           20 dBm         10 dBm         10.52 dB         4.69500 MHz           10 dBm         1         1         4.6950 MHz         4.6950 MHz           0 dBm         1         1         1         1         1           10 dBm         1         1         1         1         1         1           10 dBm         1         1         1         1         1         1         1           10 dBm         1         1         1         1         1         1         1           20 dBm         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	RefLevel 35 Att	5.00 dBm Offse 28 dB SWT	t 8.0 41.84 µs (~6.9	00 dB • RBW 10 9 ms) • VBW 30	10 kHz 10 kHz Mode A	Nuto FFT				1 Die Martin
20.dbm         0.52.db         0.1[1]         4.69500 Mtz           10.dbm         10.dbm         1         4.69500 Mtz         4.69500 Mtz           0.dbm         1         1         1         1         1         1           10.dbm         1         1         1         1         1         1         1           10.dbm         1         1         1         1         1         1         1           10.dbm         1         1         1         1         1         1         1           20.dbm         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td></td> <td>anawiaun</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>M1[1]</td> <td>-7.81 dBm</td>		anawiaun							M1[1]	-7.81 dBm
10 dBm     10 dBm <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.52 dB</td>										0.52 dB
o den		-+H1 18.930 dBm	т	·		L	mon .	2		
H2         H2<	10 dBm		1 1							
10 dbm     -0 dbm       -20 dbm     -0       -30 dbm     -0       -40 dbm     -0       -50 dbm     -0       -60 dbm     -0       -60 dbm     -0       -60 dbm     -0       -7.81 dbm     -0       T1     1       1.905521 GHz     -7.81 dbm       T1     1       1.905521 GHz     9.60 dbm       D1     M1       1     4.695 MHz       0.52 db	0 dBm							<u>\</u> .		
-30 dBm     -30 dBm     -40 dBm	-10 dBm	H2 -7.070	dBm							
40 dbm     -40 dbm     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -	-20 dBm	fun	$\sim$						-	
40 dbm     -40 dbm	-30 dAm								_ ~~~	$\sim \sim$
-50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -750 dBm -750 dBm -77,81 dBm -77,97,2017 -77,2017 -77,2017 -77,2017 -77,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,97,2017 -77,9										
40 dbm         CF 1.007 GHz         1001 pts         1.0 MHz/         Span 10.0 MHz           Z Marker Table         2 Marker Table         Function         Function Result           M1         1         1.9055244 GHz         -7.81 dBm         Function         Function Result           T1         1         1.9055321 GHz         10.12 dBm         Occ Bw         4.095904096 MHz           T2         1         1.90563 GHz         9.60 dBm         Occ Bw         4.095904096 MHz           D1         M1         1         4.695 MHz         0.52 dB         7.81 dBm										
CF 1.9076 GHz         1001 pts         1.0 MHz/         Span 10.0 MHz           2 Marker Table         Y-Value         Y-Value         Function         Function Result           M1         1         1.9055244 GHz         -7.81 dBm         Function         Function Result           T1         1         1.9055321 GHz         10.12 dBm         Occ Bw         4.0955904096 MHz           T2         1         1.90628 GHz         9.60 dBm         Occ Bw         4.0955904096 MHz           D1         M1         1         4.695 MHz         0.52 dB         9.60 dBm         6.52 dB	-50 dBm									
2 Marker Table         Y-Value         Y-Value         Function         Function Result           MI         1         1.905524 GHz         -7.81 dBm         -7.81 dBm         -7.81 dBm           T1         1         1.9055231 GHz         10.12 dBm         Occ Bw         4.095904096 MHz           T2         1         1.905528 GHz         9.60 dBm         Occ Bw         4.095904096 MHz           D1         M1         1         4.695 MHz         0.52 dB         Measuring         10100 Mm and										
Type         Ref         Trc         X-Value         Y-Value         Function         Function Result           M1         1         1.905244 GHz         -7.81 dBm         Occ Bw         4.095904096 MHz           T1         1         1.905528 GHz         10.12 dBm         Occ Bw         4.095904096 MHz           D1         M1         1         4.695 MHz         0.52 dB         9.60 dBm           D1         M1         1         4.695 MHz         0.52 dB         9.60 dBm	2 Marker Tab	le		1001 pt	S	1	.0 MHz/		:	Span 10.0 MHz
T1     1     1.9055321 GHz     10.12 dBm     Occ Bw     4.095904096 MHz       T2     1     1.909538 GHz     9.60 dBm     D1       D1     M1     1     4.695 MHz     0.52 dB	Type Re M1	f Trc	1.905244 G	Hz	-7.81 dBm		Function			
Measuring 127.07.2017	T1 T2	1	1.9055321 ( 1.909628 (	GHz GHz	10.12 dBm 9.60 dBm	Occ Bw			4.09590409	96 MHz
	D1 M1	1	4.695 M	πZ	0.52 dB			Measuring		27.07.2017
	Date: 27.JUL 201	7 16:05:46								10:00:46
Channel 9538					Chann	0520				

Multivian	🖽 Spectrum			WCDMA	1 Danu	V			⊽
MultiView Ref Level 35	5.00 dBm Offse 28 dB SWT		0 dB = RBW 10	00 kHz					Ľ
Att 1 Occupied Ba	28 dB SWT andwidth	41.84 µs (~6.9	9 ms) <b>= VBW</b> 30	00 kHz Mode A	Nuto FFT				• 1Pk Max
30 dBm									-7.35 dBm 824.06700 MHz
20.dBm	H1 19.230 dBm			0	0 (22.4			D1[1]	1.54 dB 4.66000 MHz
10 dBm		Ţ	· ·····			and the second s	12		
		/					$\backslash$		
0 dBm	H2 -6.770	dBm M					dı		
-10 dBm	12 0.770								
-20 dBm							- man	~~~ ·	<b></b>
-30 dBm								· · · · ·	$\sim\sim\sim$
-40 dBm									
-50 dBm									
-60 dBm									
CF 826.4 MHz 2 Marker Tab	le		1001 pt		1	.0 MHz/			Span 10.0 MHz
Type Re	ef   Trc	X-Value 824.067 M	Hz	Y-Value -7.35 dBm	0	Function		Function R	
T1 T2 D1 M1	1	824.36204 1 828.44795 1 <b>4.66 M</b>	MHZ MHZ	10.00 dBm 9.71 dBm <b>1.54 dB</b>	Occ Bw			4.08591408	o Mriz
		00 M		1.34 UD			Measuring		27.07.2017 16:09:56
Date: 27.JUL.20	17 16:09:56								
				Chann	el 4132				
MultiView	🖽 Spectrum			Unann	CI 7 I JZ				▽
	5.00 dBm Offse	t 8.0	00 dB = RBW 10	00 kHz 00 kHz Mode A	uto FFT				
1 Occupied Ba	andwidth	41.04 µS (~6.5	/ ms/ = visvv 30	JOINIZ MODE A	water 111			M1[1]	●1Pk Max -5.83 dBm
30 dBm								D1[1]	834.26400 MHz 0.12 dB
20 dBm-	H1 19.660 dBm				f				4.66000 MHz
10 dBm						~	2		
0 dBm		- /							
-10 dBm	H2 -6.340	dBm M					dı T		
		~~~					L.		
-20 dBm		rv –						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
CF 836.6 MHz	2		1001 pt	:s	1	.0 MHz/		:	Span 10.0 MHz
2 Marker Tab Type Re		X-Value 834.264 M		Y-Value -5.83 dBm		Function		Function R	esult
M1 T1	1	834.264 M 834.55205 (IHZ MHz	10.38 dBm	Occ Bw			4.08591408	6 MHz
T2 D1 M1		834.55205 1 838.63796 1 4.66 M	Hz	10.40 dBm 0.12 dB			,		27.07.2017
	Л						Measuring		16:13:04
Date: 27.JUL.20	17 10:13:04			<u> </u>					
<u></u>				Chann	el 4183				
			0 dB • RBW 10	00 kHz					▽
MultiView Ref Level 35	5.00 dBm Offse	.e 0.0	9 ms) 🖷 VBW 30	00 kHz Mode A	uto FFT				• 1Pk Max
	5.00 dBm Offse 28 dB SWT andwidth	41.84 µs (~6.9						10000	-6.31 dBm
Ref Level 35 Att	5.00 dBm Offse 28 dB SWT andwidth	41.84 µs (~6.9							844.25600 MHz
Ref Level 35 Att 1 Occupied Ba	5.00 dBm Offse 28 dB SWT andwidth H1 19.700 dBm	41.84 µs (~6.9						M1[1]	844.25600 MHz 0.29 dB 4.68200 MHz
Ref Level 35 Att 1 Occupied Ba 30 dBm -20-dBm	andwidth	41.84 µs (~6.9				······································	2 V		844.25600 MHz 0.29 dB
Ref Level 35 Att 1 Occupied Ba 30 dBm -20-dBm 10 dBm	andwidth	41.84 µs (~6.9					2		844.25600 MHz 0.29 dB
Ref Level 35 Att 1 Occupied Ba 30 dBm -20-dBm	H1 19.700 dBm-	T	· · · · · · · · · · · · · · · · · · ·				2 2 9		844.25600 MHz 0.29 dB
Ref Level 35 Att 1 Occupied Ba 30 dBm -20-dBm 10 dBm	andwidth	T					12 41		844.25600 MHz 0.29 dB
Ref Level 35 Att 1 Occupied Baa 30 dBm	H1 19.700 dBm-	T							844.25600 MHz 0.29 dB
Ref Level 33 Att T Occupied B: 30 dBm -89-dBm 10 dBm 0 dBm	H1 19.700 dBm-	T					22 41		844.25600 MHz 0.29 dB
Aft Level 32 Att 10 Occupied Bit 30 dBm -20 dBm 0 dBm -10 dBm -20 dBm -30 dBm	H1 19.700 dBm-	T							844.25600 MHz 0.29 dB
Ref Level 35 Att TOCCUPIED B3 30 dBm -80-dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	H1 19.700 dBm-	T							844.25600 MHz 0.29 dB
Aft Level 32 Att 10 Occupied Bit 30 dBm -20 dBm 0 dBm -10 dBm -20 dBm -30 dBm	H1 19.700 dBm-	T					41 22		844.25600 MHz 0.29 dB
Ref Level 35 Att 1 Occupied B: 30 dBm -80-dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	H1 19.700 dBm	T					d1	D1[1]	844.25600 MHz 0.29 dB 4.68200 MHz
Ref Level 33 • Att 1 Occupied Bt 30 dBm -80 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -60 dBm -27 dBm -28 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -28 dBm -29 dBm	H1 19.700 dBm H2 -6.300 H2 -6.300	dem Market	1001 pt	S		.0 MHz/	d1	D1[1]	844.25600 MHz 0.29 dB 4.68200 MHz
Ref Level 33 • Att 1 Occupied Bt 30 dBm -0 dBm 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm -30 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -80 dBm -90 dBm	H1 19.700 dBm H2 -6.300 H2 -6.300	dem Market State S	1001 pt	S V-Value -6.31 dBm				D1[1]	844.25600 MHz 0.29 dB 4.68200 MHz 5pan 10.0 MHz essult
Ref Level 33 • Att 1 Occupied Bt 30 dBm -80 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -20 dBm -20 dBm -30 dBm -30 dBm -10 dBm -20 dBm -20 dBm -20 dBm -10 dBm -20 dBm	H1 19.700 dBm H2 -6.300 H2 -6.300 H2 -6.300 H2 -6.300 H2 -6.300 H2 -1.30 H2 -1.	Lem 14 K-Value 844.5256 M 844.54266 844.54266	1001 pt	S V-Value 				D1[1]	844.25600 MHz 0.29 dB 4.68200 MHz 5pan 10.0 MHz essult
Ref Level 33 Att TOCCUPIEd B: 30 dBm -80-dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -10 dBm	H1 19.700 dBm H2 -6.300 H2 -6.300 H2 -6.300 H2 -6.300 H2 -6.300 H2 -1.30 H2 -1.	dem Marco Ma	1001 pt	S V-Value -6.31 dBm				D1[1]	944.25600 MHz 0.29 dB 4.68200 MHz

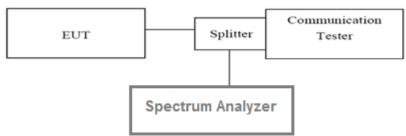
5.3. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 specify that 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 specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficientscans were taken to show the out of band Emissions if any up to 10th harmonic.
- 3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

TEST MODE:

Please refer to the clause 3.3

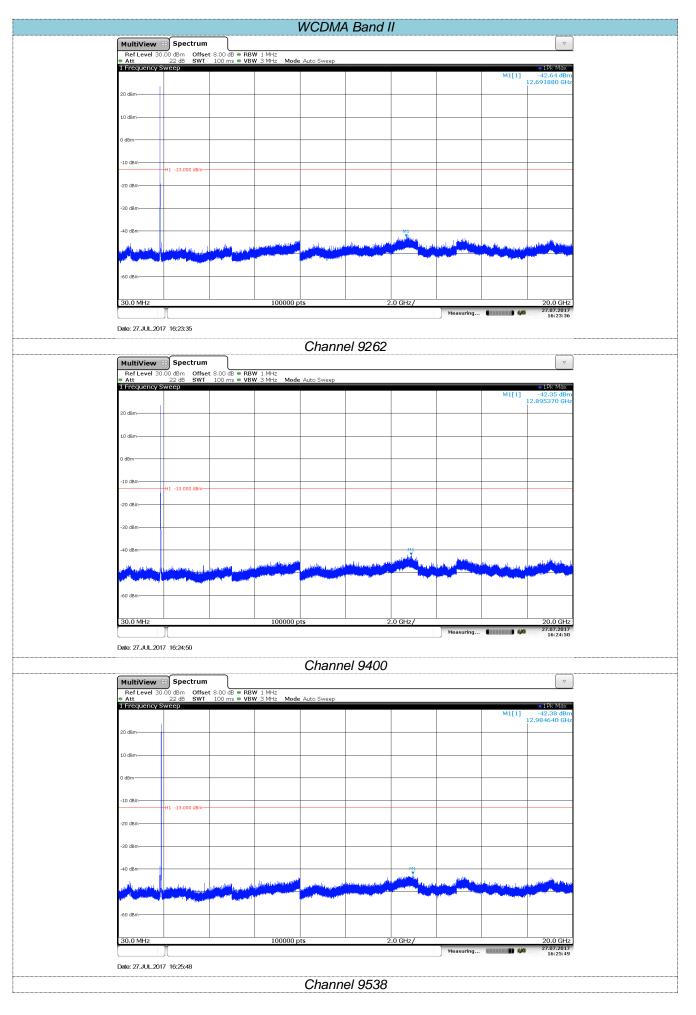
TEST RESULTS

☑ Passed □ Not Applicable

Note:Worst case at GSM850/PCS1900/WCDMA B2/B5

						GSN	1850				
			B Spectrum								▼
Ref L Att	Leve	I 35.	.00 dBm Offset 28 dB SWT	t 8.00 dB • RBV 100 ms • VBV	VIMHz VIMHz Mode	e Auto Sweep					o 1Dk Mov
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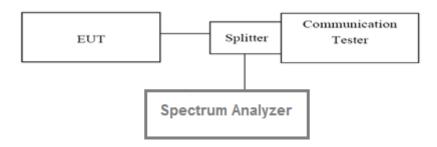
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 specify that 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 specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2. For the bandedge: 2G:Set the RBW=3KHz, VBW = 10KHz, Sweep time= Auto

3G: Set the RBW=100KHz, VBW = 300KHz, Sweep time= Auto

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Report No.: TRE1707003001

Page: 28 of 59

		GSN	//850		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
128	824.2	824	-15.24	-13.00	Pass
251	848.8	849	-14.28	-13.00	Pass

		GPR	S850		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
128	824.2	824	-13.82	-13.00	Pass
251	848.8	849	-13.80	-13.00	Pass

		EGPF	RS850		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	Verdici
128	824.2	824	-14.80	-13.00	Pass
251	848.8	849	-15.70	-13.00	Pass

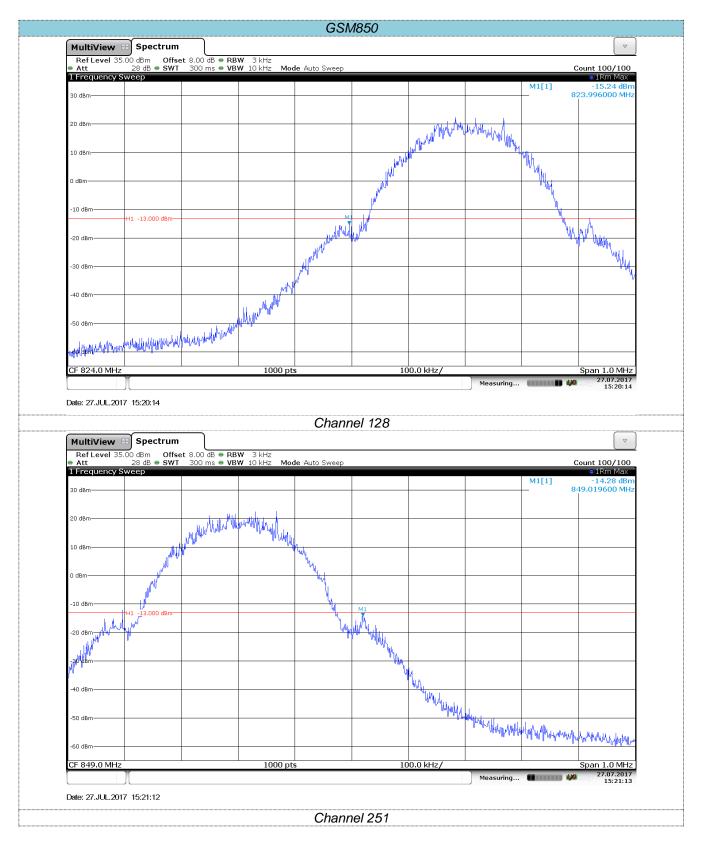
		PCS	1900		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
512	1850.2	1850	-14.19	-13.00	Pass
810	1909.8	1910	-15.80	-13.00	Pass

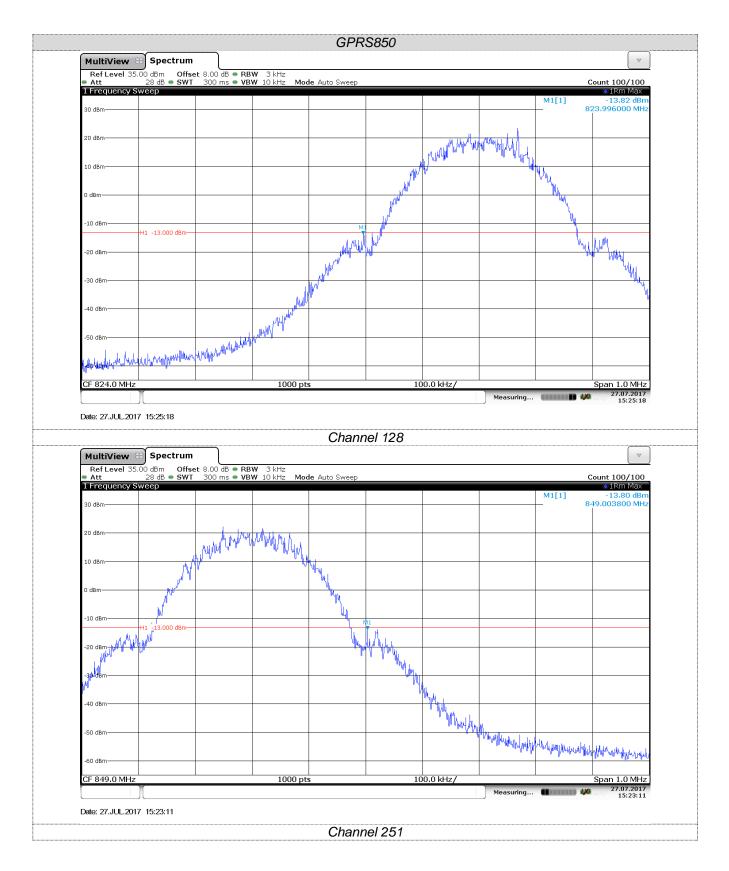
		GPR	S1900		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdici
512	1850.2	1850	-16.78	-13.00	Pass
810	1909.8	1910	-16.33	-13.00	Pass

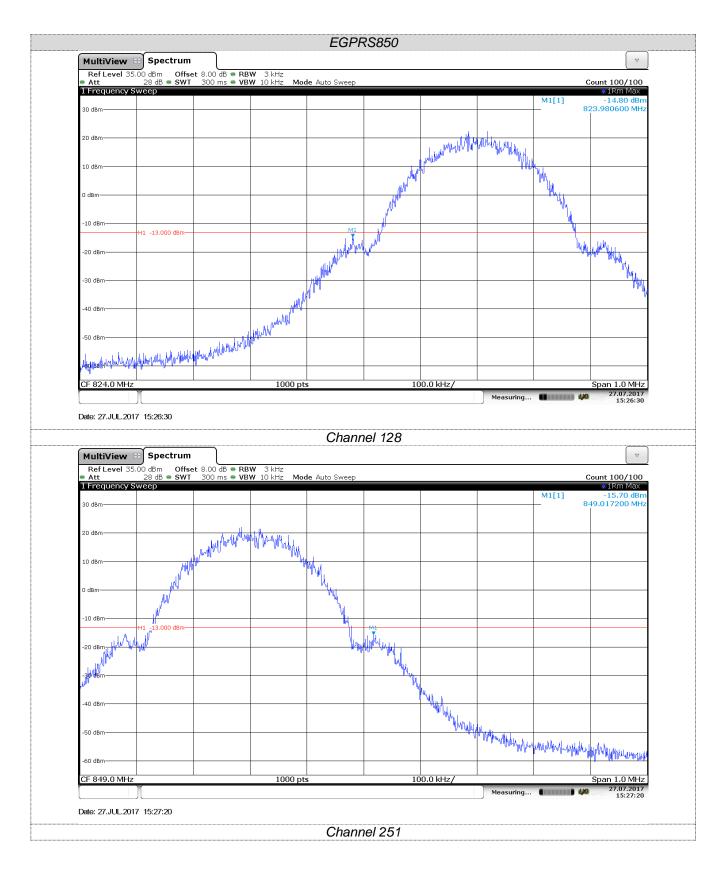
		EGPR	S1900		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	Verdict
512	1850.2	1850	-15.79	-13.00	Pass
810	1909.8	1910	-15.91	-13.00	Pass

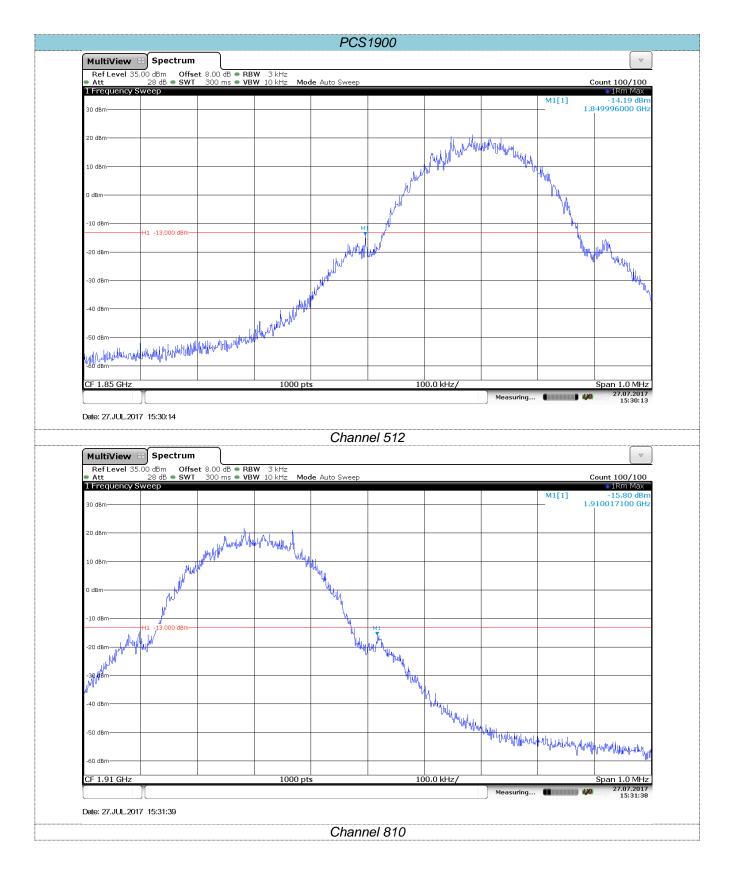
		WCDMA	A Band II		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
9262	1852.4	1850	-20.41	-13.00	Pass
9538	1907.6	1910	-21.59	-13.00	Pass

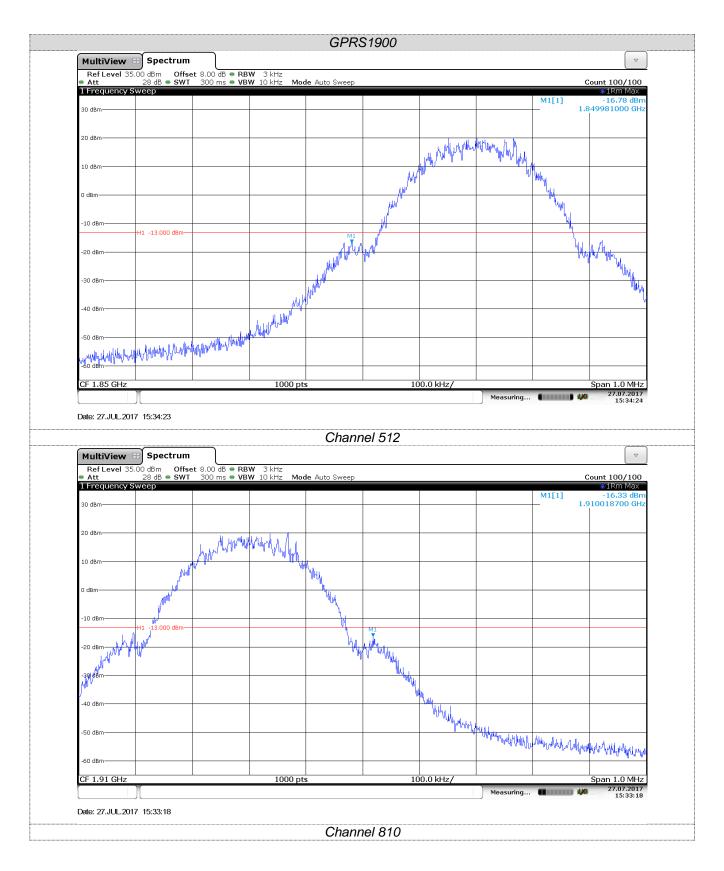
		WCDMA	A Band V		
Channel	Frequency	Measureme	nt Results	Limit	Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
4132	826.4	824	-22.21	-13.00	Pass
4233	846.6	849	-20.22	-13.00	Pass











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60 dBm								
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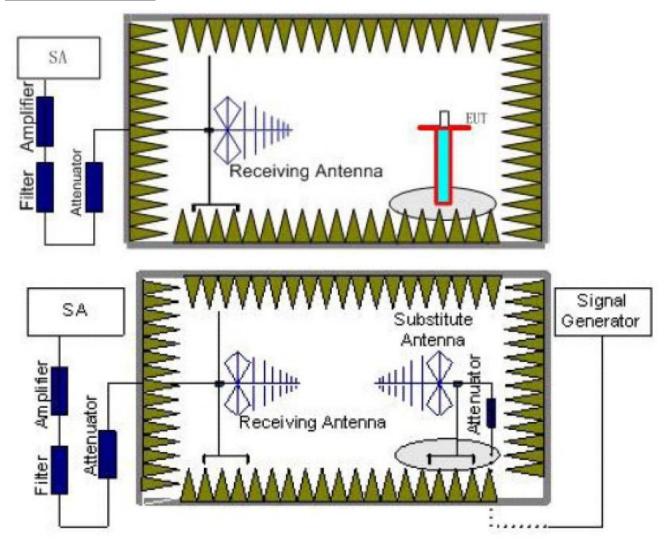
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MultiView 3 Ref Level 30.0 Att	Spectrum 00 dBm Offse 22 dB • SWT	t 8.00 dB ● R 300 ms ● V	3W 100 kHz 3W 300 kHz M		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
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MultiView Ref Level 30.0 Att 1 Frequency St 20 dBm 10 dBm 0 dBm	Spectrum 00 dBm Offse 22 dB • SWT	: 9.00 dB • R 300 ms • VI	BW 100 kHz BW 300 kHz Mo		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView 33 Ref Level 30.0 Att I Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	: 9.00 dB • R 300 ms • VI	3W 100 kHz 3W 300 kHz Ma		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView Ref Level 30.0 Att 1 Frequency St 20 dBm 10 dBm 0 dBm	Spectrum O dBm Offse 22 dB • SWT veep	t 8.00 dB • R 300 ms • VI	BW 100 kHz 3W 300 kHz M		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView 33 Ref Level 30.0 Att I Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	r 8.00 dB • R 300 ms • VI	3W 100 kHz 3W 300 kHz M				Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView State Ref Level 30.0 Att I Frequency SV 20 dBm 0 10 dBm 0 -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	E 8.00 dB • R 300 ms • VI	BW 100 kHz BW 300 kHz Mo		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView 33 Ref Level 30.0 Att I Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Spectrum O dBm Offse 22 dB • SWT veep	: 9.00 dB • R 300 ms • V	3W 100 kHz 3W 300 kHz Mo		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView 33 Ref Level 30.0 Att 1 I Frequency SV 20 20 dBm 10 10 dBm -0 -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	: 8.00 dB • R 300 ms • VI	3W 100 kHz 3W 300 kHz M		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView State Ref Level 30.0 Att I Frequency SV 20 dBm 0 10 dBm 0 -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	t 8.00 dB • R 300 ms • V	3W 100 kHz 3W 300 kHz M		el 9262		Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView 33 Ref Level 30.0 Att 1 I Frequency SV 20 20 dBm 10 10 dBm -0 -10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	r 8.00 dB • R 300 ms • VI	BW 100 kHz M 300 kHz M				Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView Ref Level 30.0 Att 1 1 Frequency SY 20 dBm 20 dBm 0 dBm 10 dBm -0 dBm -30 dBm -30 dBm -50 dBm -50 dBm	Spectrum O dBm Offse 22 dB • SWT veep	r 8.00 dB • R 300 ms • V	BW 100 kHz M 300 kHz M				Measuring		Count 100/100 • 1Rm Max -21.59 dB
MultiView Ref Level 30.0 Att 1 1 Frequency SY 20 dBm 20 dBm 0 dBm 10 dBm -0 dBm -30 dBm -30 dBm -50 dBm -50 dBm	Spectrum O dBm Offse 22 dB • SWT veep	E 9.00 dB • R 300 ms • VI	BW 100 kHz BW 300 kHz Mo	ode Auto Sweep		.0 MHz/			Count 100/100 •1Rm Max -21.59 dB 1.91000000 GH
MultiView State Ref Level 30.0 Att 1 Frequency State 20 dBm 20 dBm 0 dBm 10 dBm	Spectrum O dBm Offse 22 dB • SWT veep	E 8.00 dB • R 300 ms • VI		ode Auto Sweep					Count 100/100 91Rm Max -21.59 dB 1.91000000 GH

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MultiView 8	B Spectrum	l							\bigtriangledown
Att	00 dBm Offse 22 dB • SWT	t 8.00 dB • RB 300 ms • VB	W 100 kHz W 300 kHz Mo	ode Auto Sweep					Count 100/100
1 Frequency Sw	weep							M1[1]	●1Rm Max -22.21 dBr
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-40 dBm	M /	$\sum \Delta$	and						
www.man		Luc .							
-50 dBm									
-60 dBm									
CF 824.0 MHz			1001 pt	S	1	.0 MHz/			Span 10.0 MH: 27.07.2017
	~			Chann	el 4132		Measuring	(16:37:20
Date: 27.JUL.2017 MultiView 8	B Spectrum			Chann	el 4132		Measuring		16:37:20
MultiView 8 Ref Level 30.0 Att	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB • RB 300 ms • VB	W 100 kHz W 300 kHz Mo		el 4132		Measuring,		16:37:2€
MultiView 8 Ref Level 30.0	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB • RB 300 ms • VB	₩ 100 kHz ₩ 300 kHz Mo		el 4132		Measuring	M1[1]	Count 100/100 ● 1Rm Max -20.22 dBr
MultiView 8 Ref Level 30.0 Att 1 Frequency Sv	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 9.00 dB ● RB 300 ms ● VB	W 100 kHz W 300 kHz Mo		el 4132		Measuring		16:37:26 ▼ Count 100/100 ● 1Rm Max
MultiView 8 Ref Level 30.0 Att	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB ● RB 300 ms ● VB	W 100 kHz W 300 kHz Mo		el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView 8 Ref Level 30.0 Att 1 Frequency Sv	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB ● RB 300 ms ● VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att I Frequency St 20 dBm	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB • RB 300 ms • VB	W 100 kHz W 300 kHz Mo		el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att I Frequency St 20 dBm	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 9.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB ● RB 300 ms ● VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm	■ Spectrum 00 dBm Offse 22 dB ■ SWT	t 8.00 dB ● RB 300 ms ● VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 9.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView Ref Level 30. Att I Frequency Sy 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 9.00 dB • RE 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep	el 4132		Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView Ref Level 30. Att 1 Frequency SV 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView Ref Level 30. Att 1 Frequency SV 20 dBm 10 dBm -10 dBm -20 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		Count 100/100 ● 1Rm Max -20.22 dBr
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		16:37:26
MultiView Ref Level 30. Att 1 Frequency SV 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		16:37:26
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 9.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		16:37:26
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 9.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep			Measuring		16:37:26
MultiView Ref Level 30.0 Att 1 1 Frequency Sy 20 dBm 20 dBm 0 10 dBm 0 -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB		ode Auto Sweep			Measuring		16:37:26
MultiView B Ref Level 30.0 Att 1 Frequency SV 20 dBm 10 dBm 0 dBm -10 dBm	Spectrum O0 dBm Offse 22 dB SWT weep	t 8.00 dB • RB 300 ms • VB	₩ 300 kHz Mo	ode Auto Sweep					Count 100/100 Count 100/100

5.5. ERP and EIRP

LIMIT

GSM850/WCDMA Band V: 7W ERP PCS1900/WCDMA Band II: 2W EIRP TEST CONFIGURATION



TEST PROCEDURE

- EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz for above 1GHz and RBW=100kHz,VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the

frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- The measurement results are obtained as described below: Power(EIRP)=PMea- PAg - Pcl + Ga We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga
- This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
 ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	128	V	31.52		
	120	Н	28.45		
GSM850	190	V	31.74	38.45	Pass
0010000	130	Н	28.88	30.43	1 835
	251	V	31.52	38.45	
	201	Н	28.64		
	128	V	31.66		
	120	Н	28.47	38.45	Pass
GPRS850	V 31.84 190 H 21.57 251 V 31.47	V	31.84		
011100000		Н	21.57		
	201	Н	28.64	38.45	
	128	V	31.74		
	120	Н	28.62		
EGPRS850	190	V	31.77	38 45	Pass
2011(0000	100	Н	28.52	30.43	1 400
	251	V	31.47		
	201	Н	28.88		

Report No.: TRE1707003001

Page: 39 of 59

Issued: 2017-07-29

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	27.34		
	512	Н	25.43		
PCS1900	661	V	27.62	33.00	Pass
1001900	001	Н	25.22	33.00	1 835
	810	V	27.37		
	010	Н	25.44		
	512	V	27.58		Pass
	012	Н	25.66	33.00	
GPRS1900	V 27.52 H 25.47 V 27.66	V	27.52		
01101300		н	25.47		
	010	н	25.78	- 33.00 - 33.00 - 33.00 - 33.00	
	512	V	27.43		
	512	Н	25.86		
EGPRS1900	661	V	27.36	33.00	Pass
		н	25.47	33.00	1 435
	810	V	27.22		
	010	Н	25.83		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	9262	V	21.47		
	9262	Н	16.85		Paga
WCDMA Band II	0.400	V	21.74	22.00	
	9400	Н	16.43	33.00	Pass
	9538 —	V	21.88		
		Н	16.52		

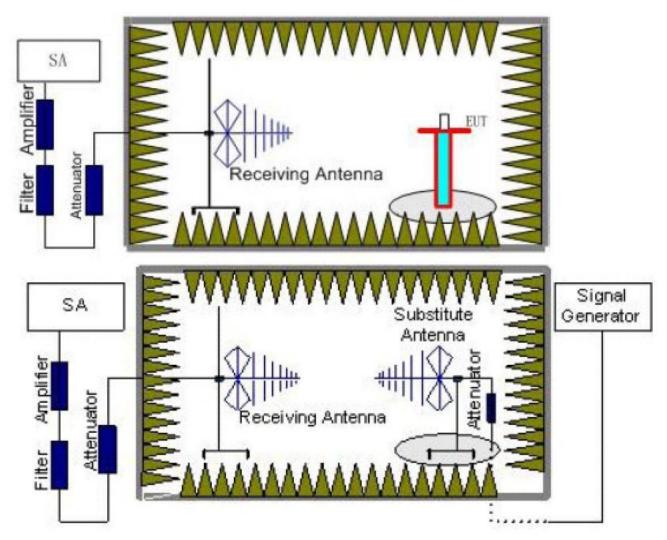
Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	4132	V	21.58		
		Н	16.75		Pass
WCDMA Band V	4183	V	21.43	38.45	
		Н	16.38		
		V	21.84		
		Н	16.78		

5.6. Radiated Spurious Emission

LIMIT

-13dBm

TEST CONFIGURATION



TEST RESULTS

- EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz for above 1GHz and RBW=100kHz,VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the

substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- The measurement results are obtained as described below: Power(EIRP)=PMea- PAg - Pcl + Ga We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below: Power(EIRP)=PMea- Pcl + Ga
- This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
 ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:Worst case at GSM850/PCS1900

Report No.: TRE1707003001 Page: 42 of 59

Issued: 2017-07-29

		GS	M850		
Channel	Frequency	Spurious	Emission	Limit (dPm)	Result
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	87.38 155.54	Vertical	-68.21		
	155.54	V	-73.88		
	1648.51	V	-39.93	12.00	5
	2577.97	V	-31.34	-13.00	Pass
	4996.14	V	-53.05		
400	10007.53	V	-45.03		
128	36.27	Horizontal			
	250.05	Н	-73.47		
	1648.51	Н	-40.55	12.00	Deee
	2475.28	н	-48.51	-13.00	Pass
	4996.14	н	-51.42		
	8004.46	Н	-47.63		
	36.66	Vertical	-53.84		Pass
	284.79	V	-73.79	-13.00	
	1672.22	V	-56.20		
	2232.42	V	-63.16		Pass
	5025.20	V	-53.83		
100	9892.10	V	-45.76		
190	88.93	Horizontal	-64.17		Pass
	254.48	Н	-62.60		
	1672.22	Н	-57.85	12.00	
190	2363.67	Н	-61.26	-13.00	Pass
	4259.43	Н	-55.83		
	7992.86	Н	-48.88		
	87.68	Vertical	-64.89		
	258.09	V	-67.86		
	1698.14	V	-40.32	-13.00	Deee
	2580.81	V	-41.86	-13.00	Pass
	4996.14	V	-52.77		
0F1	8924.21	V	-46.35		
251	36.27	Horizontal	-53.76		
	262.67	Н	-64.66		
	1698.14	Н	-39.17	12.00	Dece
	2547.01	Н	-44.60	-13.00	Pass
	4546.68	Н	-55.52		
	8507.17	Н	-46.78		

Remark:

1.

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

Report No.: TRE1707003001 Page: 43 of 59

Issued: 2017-07-29

		PCS	\$1900		
Channel	Frequency	Spurious	Emission	Linsit (dDms)	Decult
Channel	(MHz)	Polarization	Level (dBm)	Limit (abm)	Result
	38.10 287.81	Vertical	-55.92		
	287.81	V	-74.42		
	1747.34	V	-40.92	40.00	5
	2586.49 V -48.18 4113.73 V -55.18 8039.36 V -47.84	-13.00	Pass		
	4113.73	V	-55.18		
- 10	8039.36	V	-47.84		
512	86.16	Horizontal	-68.12		
	209.73	Н	-76.47		
	1764.70	Н	-37.16		_
	2595.02	Н	-36.68	-13.00	Pass
	3700.48	н	-49.56		
	4996.14	н	-52.25		
	36.66	Vertical	-54.10		
	666.98	V	-74.70	-13.00	Dees
	1764.70	V	-38.43		
	2421.49	V	-35.97		Pass
	5039.80	V	-51.75		
	9595.37	V	-44.42		
661	37.05	Horizontal	-53.87		Pass
	277.87	Н	-74.08		
	1747.34	Н	-36.15		
	2577.97	н	-48.94	-13.00	
	4996.14	н	-53.15		
	8581.52	н	-46.13	Limit (dBm) -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	
	36.53	Vertical	-52.00		
	332.45	V	-70.88		
	1625.13	V	-49.62	40.00	-
	2332.71	V	-49.33	-13.00	Pass
	4996.14	V	-53.50		
	9595.37	V	-45.51		
810	38.78	Horizontal	-72.17		
	147.55	Н	-68.63		
	1499.88	Н	-52.99	(0.00	_
	2282.01	Н	-51.42	-13.00	Pass
	4996.14	Н	-51.93		
	7992.86	Н	-47.03		

Remark:

1.

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

Report No.: TRE1707003001

Page: 44 of 59

Issued: 2017-07-29

		WCDM	A Band II		
Channel	Frequency	Spurious	Emission	Limit (dPm)	Result
Channel	(MHz)	Polarization	Level (dBm)		Result
	36.15 400.56	Vertical	-53.93		
	400.56	V	-76.61		_
	1349.75	V	-54.60	12.00	
	9262 1933.18 V -40.24 4553.28 V -54.47 5554.08 V -43.13 36.53 Horizontal -64.58 156.09 H -74.45 1499.88 H -52.60 -13.00	V	-40.24	-13.00	Pass
0000	5554.08	V	-43.13		
9262	36.53	Horizontal	-64.58		
	156.09	Н	-74.45		
	1499.88	Н	-52.60	10.00	David
	1931.06	Н	-37.13	-13.00	Pass
	5554.08	Н	-51.36		
	8989.16	Н	-46.53	6.53	
	36.40	Vertical	-50.91		
	400.56	V	-73.56		Dage
	1499.88	V	-50.71	-13.00	
	2577.97	V	-43.71		Pass
	4680.49	V	-55.16		
	5635.22	V	-41.69		
9400	36.40	Horizontal	-66.22		
	144.98	Н	-75.60		
	1513.13	Н	-54.55		5
	1958.84	Н	-40.27	-13.00	Pass
	4507.29	Н	-54.08		
	5635.22	Н	-50.59	-13.00	
	38.24	Vertical	-55.50		
	325.51	V	-79.30		
	1373.69	V	-52.08		_
	2332.71	V	-49.83	-13.00	Pass
	4247.10	V	-54.71		
0500	5725.84	V	-43.07		
9538	36.02	Horizontal	-58.09		
	153.91	Н	-76.87		
	1396.51	Н	-54.89	(0.00	_
	1989.20	Н	-37.33	-13.00	Pass
	5725.84	Н	-49.97		
	8482.53	Н	-46.42		

Remark:

1.

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

		WCDM	A Band V		
Channel	Frequency	Spurious	Emission	Linsit (dDms)	Decult
Channel	(MHz)	Polarization	Level (dBm)	Limit (aBm)	Result
	36.40	Vertical	-52.14 -79.23		
307 124 205 499 910	307.70	V	-79.23		
	1240.27	V	-49.12	10.00	Deve
	2051.34 V -51.65 4996.14 V -52.85 9107.26 V -45.69	-13.00	Pass		
	4996.14	V	-52.85		
4400	9107.26	V	-45.69		
4132	37.05	Horizontal	-68.67		
	281.80	Н	-75.03		
	1499.88	Н	-52.98	40.00	5
	1852.10	Н	-49.26	-13.00	Pass
	4996.14	Н	-51.58		
	7025.00	Н	-49.67	-13.00	
	36.66	Vertical	-54.06		
	449.85	V	-75.66	-13.00	Page
	1499.88	V	-50.86		
	1664.89	V	-48.31		Pass
	3984.55	V	-55.35		
	7466.20	V	-48.29		
4183	36.27	Horizontal	-58.95		Dees
	156.09	н	-75.57		
	1248.47	Н	-54.81		
	1664.89	Н	-51.07	-13.00	Pass
	307.70 V -79.23 1240.27 V -49.12 2051.34 V -51.65 4996.14 V -52.85 9107.26 V -45.69 37.05 Horizontal -68.67 281.80 H -75.03 1499.88 H -52.98 1852.10 H -49.26 4996.14 H -51.58 7025.00 H -49.67 36.66 Vertical -54.06 449.85 V -75.66 1499.88 V -50.86 1664.89 V -48.31 3984.55 V -55.35 7466.20 V -48.29 36.27 Horizontal -58.95 156.09 H -75.57 1248.47 H -54.81				
	7348.04	н	-49.16		
	36.40	Vertical	-51.14		
	400.56	V	-74.12		
	1625.13	V	-50.00	10.00	5
	1692.55	V	-46.57	-13.00	Pass
	4996.14	V	-52.74		
	8569.08	V	-46.03		
4233	36.27	Horizontal	-65.73		
_	449.85	н	-70.13		
	1418.16	н	-54.58		_
	1692.55	н	1	-13.00	Pass
	4996.14	н	-52.81		
	8004.46	Н	-47.65		

Remark:

1. The emission behaviour belongs to narrowband spurious emission.

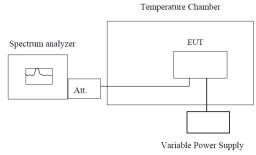
2. The emission levels of not record in the report are very lower than the limit and not show in test report.

5.7. Frequency stability V.S. Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
- 3. The EUT was placed inside the temperature chamber.
- 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°Coperating frequency as reference frequency.
- Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:Worst case at GSM850/PCS1900/WCDMA B2/B5 mid channel

Refe	erence Frequency: G	SM850 Middle cha	annel=190 chanr	el=836.6MHz	
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Einin (ppin)	Result
	-30	27	0.032		
	-20	28	0.033		
	-10	26	0.031		
	0	28	0.033		
3.80	10	27	0.032	2.50	Pass
	20	28	0.033		
	30	29	0.035		
	40	26	0.031	-	
	50	25	0.030		
Refe	erence Frequency: PC	CS1900 Middle ch	annel=661 chan	nel=1880MHz	
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result
(Vdc)		Hz ppm		сппп (ррпп)	Result
	-30	28	0.015		
	-20	29	0.015		
	-10	26	0.014		
	0	26	0.014		
3.80	10	28	0.015	2.50	Pass
	20	25	0.013		
	30	28	0.015		
	40	27	0.014		
	50	29	0.015		

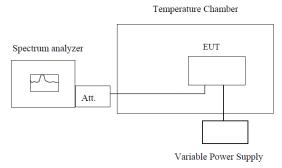
Referen	ce Frequency: WCDN	/A Band II Middle	channel=9400 cl	nannel=1880MH	Z
Power supplied	Temperature (°C)	Frequer	cy error	Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Einin (ppin)	Result
	-30	11	0.006		
	-20	13	0.007		
	-10	12	0.006		
	0	14	0.007		
3.80	10	12	0.006	2.50	Pass
	20	14	0.007		
	30	11	0.006	-	
	40	13	0.007		
	50	10	0.005		
Reference	ce Frequency: WCDN	IA Band V Middle	channel=4183 ch	nannel=836.6MH	z
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	15	0.018		
	-20	17	0.020		
	-10	17	0.020		
	0	16	0.019		
3.80	10	18	0.022	2.50	Pass
	20	16	0.019		
	30	19	0.023	1	
	40	16	0.019		
	50	18	0.022		

5.8. Frequency stability V.S. Voltagemeasurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. Set chamber temperature to 25°C. Use a variable DC power source topower the EUT and set the voltage to rated voltage.
- 2. Set the spectrum analyzer RBW lowenough to obtain the desired frequency resolution and recorded the frequency.
- 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

🛛 Passed

Not Applicable

Note:Worst case at GSM850/PCS1900/WCDMA B2/B5 mid channel

Report No.: TRE1707003001

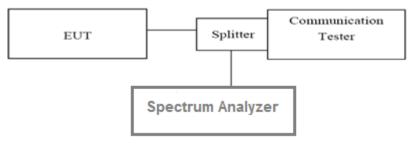
Reference	e Frequency: GSM85	0 (GSM link) Mido	lle channel=190	channel=836.6MH	łz
Temperature (°C)	Power supplied	Frequer	icy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm	Linii (ppin)	Result
	4.35	17	0.020		
25	3.80	14	0.017	2.50	Pass
	3.60	16	0.019		
Reference	Frequency: PCS190	00 (GSM link) Mid	dle channel=661	channel=1880MI	Ηz
Temperature (°C)	Power supplied	Frequer	cy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm		Result
25	4.35	10	0.005		
	3.80	9	0.005	2.50	Pass
	3.60	8	0.004		
Referen	ce Frequency: WCDM	MA Band II Middle	channel=9400 c	hannel=1880MHz	2
Temperature (°C)	Power supplied	Frequer	cy error	Limit (,
remperature (C)	(Vdc)	Hz	ppm	Res	sult
	4.35	15	0.008		
25	3.80	16	0.009	2.50	Pass
	3.60	17	0.009		
Referen	ce Frequency: WCDN	A Band VMiddle	channel=4183 c	hannel=836.6MHz	2
Temperature (°C)	Power supplied	Frequer	icy error	Limit (ppm)	Result
	(Vdc)	Hz	ppm	Enne (ppin)	rtesur
	4.35	24	0.029		
25	3.80	23	0.027	2.50	Pass

5.9. Peak-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

According with KDB 971168

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve

5. The measurement interval was set depending on the type of signal analyzed. Forcontinuoussignals(>98% duty cycle), the measurement interval was set to 1ms. For bursttransmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

TEST MODE:

Please refer to the clause 3.3

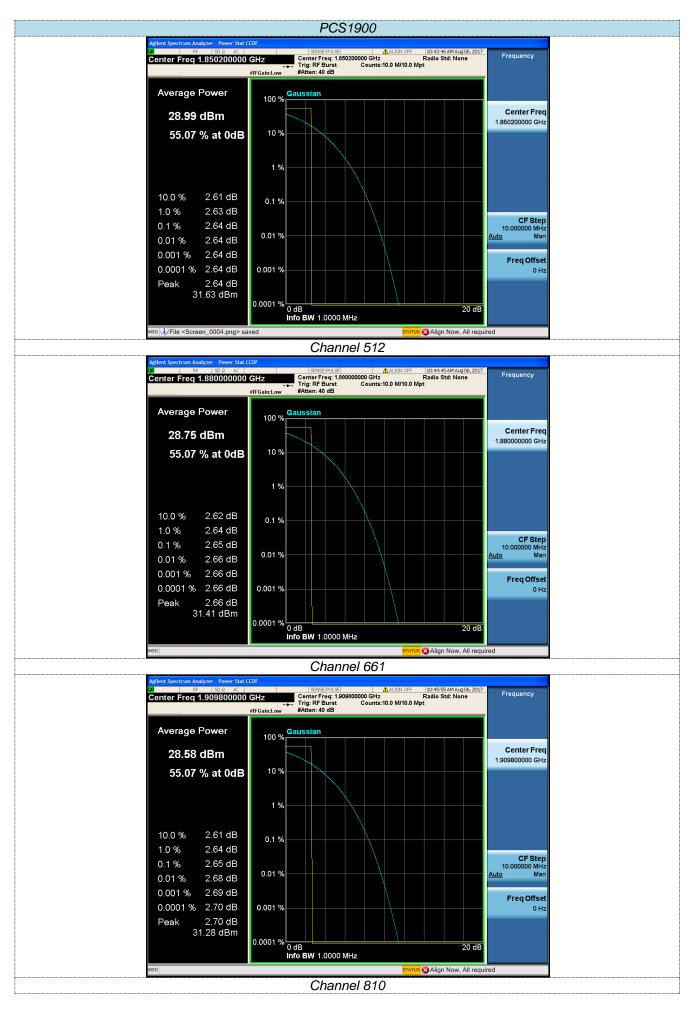
TEST RESULTS

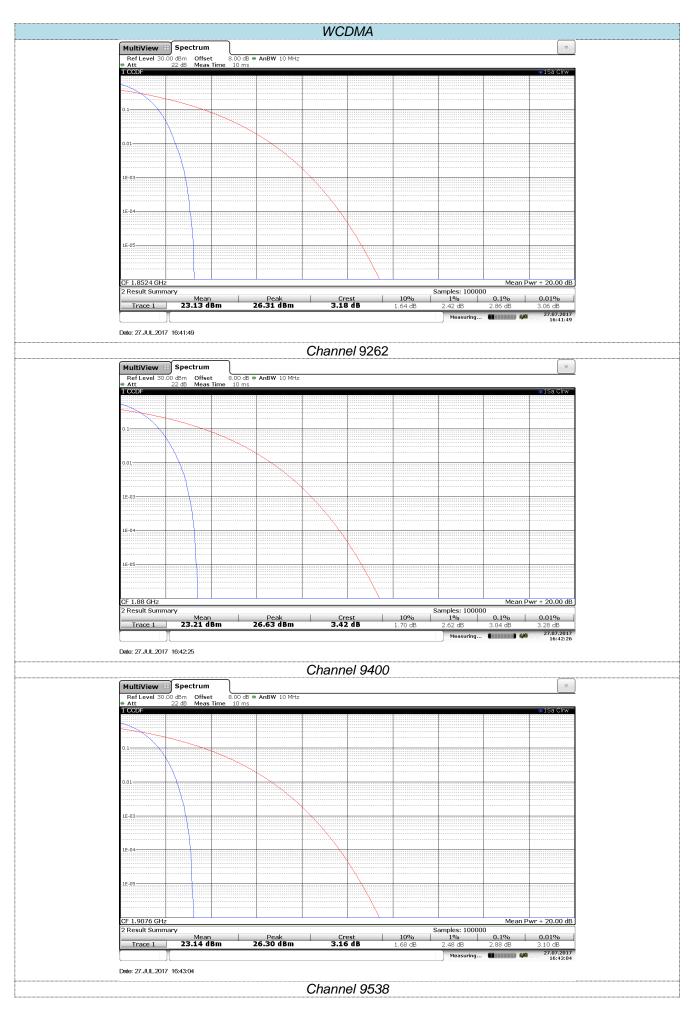
☑ Passed □ Not Applicable

Note:Worst case PCS1900,WCDMA BAND1900

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
	512	1850.2	2.64	13.00	Pass
PCS1900	661	1880.0	2.65	13.00	Pass
	810	1909.8	2.65	13.00	Pass

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
WCDMA BAND II	9262	1852.4	2.86	13.00	Pass
	9400	1880.0	3.04	13.00	Pass
	9538	1907.6	2.88	13.00	Pass

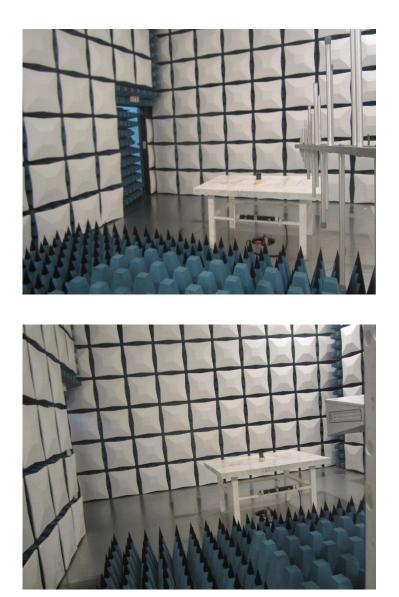


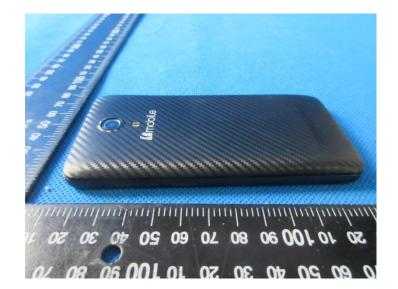


Report Template Version: H00 (2016-08)

6. Test Setup Photos of the EUT

Radiated emission:



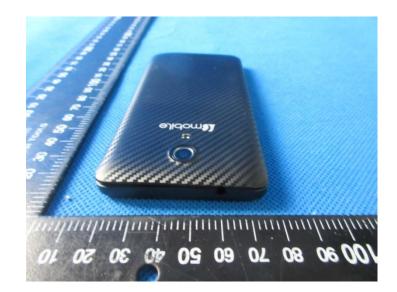






External photos of the EUT

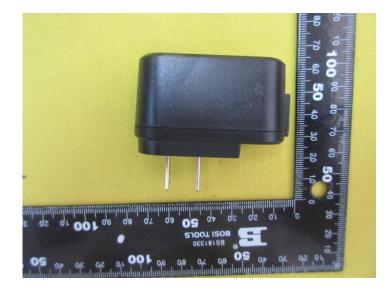
7. External and Internal Photos of the EUT













Report Template Version: H00 (2016-08)

Internal photos of the EUT

