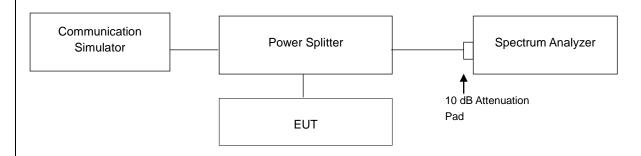


# 4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

## 4.6.2 Test Setup



#### 4.6.3 Test Procedures

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1 %.



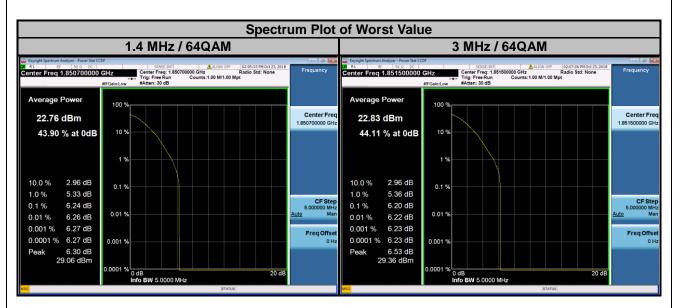
## 4.6.4 Test Results

Channel	Frequency		erage Ratio B)	Channel	Frequency	Peak to Average Ratio (dB)
	(MHz)	GSM	EDGE		(MHz)	WCDMA
512	1850.2	0.29	3.17	9262	1852.4	2.87
661	1880.0	0.33 3.22		9400	1880.0	3.00
810	1909.8	0.37 3.23		9538	1907.6	2.93
Channel	Frequency		Peak to Average Ratio (dB)			
	(MHz)	CD	CDMA			
25	1851.25	3.10				
600	1880.00	3.98				
1175	1908.75	3.5	38			





			LTE Band 2										
Channel Bandwidth: 1.4 MHz					Channel Bandwidth: 3 MHz								
Channel	Frequency	Peak to	eak to Average Ratio (dB)		Channel	Frequency	Peak to Average Ratio (dB)						
	(MHz) QPSK 16QAM 64QAM		(MHz)	QPSK	16QAM	64QAM							
18607	1850.7	3.80	5.13	6.24	18615	1851.5	3.57	5.13	6.20				
18900	1880.0	3.78	4.60	5.64	18900	1880.0	3.57	4.49	5.50				
19193	1909.3	3.36	4.11	5.14	19185	1908.5	3.56	3.97	5.01				





	LTE Band 2										
(	Channel Band	5 MHz		Channel Bandwidth: 10 MHz							
Channel	Frequency	Peak to	o Averag (dB)	e Ratio	Channel	Frequency	Peak to Average Ratio (dB)				
	(MHz) QPSK 16QAM 64Q	64QAM		(MHz)	QPSK	16QAM	64QAM				
18625	1852.5	3.57	5.15	6.20	18650	1855.0	3.53	5.05	6.16		
18900	1880.0	3.58	4.44	5.48	18900	1880.0	3.32	4.13	5.14		
19175	1907.5	3.56	5.20	6.52	19150	1905.0	3.54	5.10	6.18		





	LTE Band 2										
Channel Bandwidth: 15 MHz					Channel Bandwidth: 20 MHz						
Channel	Frequency	Peak to	o Averag (dB)	e Ratio	Channel	Frequency	Peak to Average Ratio (dB)				
	(MHz) QPS	QPSK	16QAM	64QAM		(MHz)	QPSK	16QAM	64QAM		
18675	1857.5	3.51	5.11	6.34	18700	1860.0	3.49	5.12	6.32		
18900	1880.0	3.42	4.19	5.32	18900	1880.0	3.43	4.29	5.38		
19125	1902.5	3.43	5.16	6.48	19100	1900.0	3.44	4.43	5.51		

ALL         State and sector         State and sector         ALLON OF (sector         State and sector         ALLON OF (sector         State and sector         ALLON OF (sector	Spectr	um Plot	t of Worst Value	
ALL         W         198 D         DC         ALLEN OF         D21401 MO122,288         Prequency           Center Freq 1.902500000 GHz         Freq 1.902500000 GHz         Ratio Str. None         Rest. Str. None         Re	15 MHz / 64QAM		20 MHz / 64QAM	
22.86 dBm       100 %       Center Freq       22.83 dBm       100 %<	RL         BF         S0.0         DC         SENSE:INT         & 41/04 OFF         02:11:39 PMod:23, 2818           Center Freq: 1.902500000 GHz         Center Freq: 1.902500000 GHz         Center Freq: 1.902500000 GHz         Radio Std: None           Trig: Free Run         Counts:1.00 M/1.00 Mpt         Trig: Stree Run         Schuts:1.00 M/1.00 Mpt		RL         SP         SP	requency
22.06 dBin       10%       10%       12050000 GHz       22.03 dBin       10%       1800         43.92 % at 0dB       10%       10%       1       1       10%       1       10%       1       10%       1       1       10%       1	Average Power		Average Power	
1%       1% <td< td=""><td></td><td></td><td>zz.63 dBm</td><td>Center F 0000000 0</td></td<>			zz.63 dBm	Center F 0000000 0
1.0%     4.97 dB     0.1%     0.01%     0.1%     0.01%     0.01%     0.01%     0.01%     0.01%     0.01%     0.01%     0.001%	1%		1%	
0.01 % 6.82 dB 0.001 % 6.85 dB 0.001 % Freq Offset 0.001 % 6.35 dB 0.001 % 6.87 GB 0.001 % 6.87 GB 0.001 % 6.87 GB 0.001 % 6.87 GB 0.001 % 6.8	1.0 % 4.97 dB 0.1 % 6.48 dB	5.000000 MHz	0.1% 5.34 dB 0.1% 6.32 dB	CF S
	0.001 % 6.85 dB	Freq Offset	0.01 % 6.34 dB 0.001 % 6.35 dB	Freq Of
29.76 dBm 0.0001 % 0 dB 20 dB	Peak 6.90 dB 0.0001 % 0 dB 20.00 dB 20 dB		Peak 6.37 dB 29.20 dBm 0.0001 % 0 dB 20 dB	



	LTE Band 25										
С	hannel Band	width: 1.	4 MHz		Channel Bandwidth: 3 MHz						
Channel	Frequency	Peak to	o Averag (dB)	e Ratio	Channel	Frequency	Peak to Average Ratio (dB)				
	(MHz) QPSK 16QAM 64Q	64QAM		(MHz)	QPSK	16QAM	64QAM				
26047	1850.7	3.82	5.18	6.23	26055	1851.5	3.56	5.14	6.22		
26365	1882.5	3.83	5.22	6.28	26365	1882.5	3.60	4.97	6.00		
26683	1914.3	3.80	4.99	6.18	26675	1913.5	3.57	3.94	5.05		

	Spect	trum Plot	of Worst Value				
	1.4 MHz / 64QAM		3 MHz / 64QAM				
Keysight Spectrum Analyzer - Power Stat CC RL RF S0 Q DC enter Freq 1.882500000	SENSE:INT ALIGN OFF 05:42:29 PM Oct 23, 2	018 Frequency	Reynight Spectrum Analyzer - Power Start CCDF A.L. 80 Start Start CCDF Center Freq 1.851500000 GHz Center Freq 1.851500 #FFGaint.cw #FfGaint.cw #Atten: 30 dB	ALIGN OFF 05:44:22 PM oct 22, 2018 0000 GHz Radio Std: None Frequency Counts:1.00 M/1.00 Mpt			
Average Power	100 %	Center Freq	Average Power	Center Fr			
22.83 dBm 43.70 % at 0dB	10 %	1.882500000 GHz	22.80 dBm 43.87 % at 0dB	1.851500000 G			
	1 %		1 %				
10.0 % 2.99 dB 1.0 % 5.36 dB	0.1 %		10.0 % 2.96 dB 0.1 %				
0.1 % 6.28 dB 0.01 % 6.30 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man	0.1 % 6.22 dB 0.01 % 6.25 dB 0.01 %	CF S 5.00000 N Auto			
0.001 % 6.30 dB 0.0001 % 6.30 dB Peak 6.39 dB	0.001 %	Freq Offset 0 Hz	0.001 % 6.27 dB 0.0001 % 6.27 dB 0.001 % Peak 6.32 dB	Freq Off 0			
29.22 dBm	0.0001 % 0 dB 20 d	dB	29.12 dBm 0.0001 % 0 dB	20 dB			
	Info BW 5.0000 MHz		Info BW 5.0000 MHz	STATUS			



	LTE Band 25										
(	Channel Band	MHz		Channel Bandwidth: 10 MHz							
Channel	Frequency	Peak to	o Averag (dB)	e Ratio	Channel	Frequency	Peak to Average Ratio (dB)				
	(MHz) QPSK 16QAM 64QAM		(MHz)	QPSK	16QAM	64QAM					
26065	1852.5	3.57	5.11	6.16	26090	1855.0	3.53	5.12	6.15		
26365	1882.5	3.61	4.76	5.79	26365	1882.5	3.48	4.31	5.32		
26665	1912.5	3.50	4.36	5.43	26640	1910.0	3.49	5.23	6.51		

		of Worst Valu	C			
5 MHz / 64QAN		10 MHz / 64QAM				
spiciel Spectrum Ausigner Forwer Stat CCCF Context Spectrum Ausigner Forwer Stat Spectrum Ausigner Forwer Stat Spectrum	Radio Std: None Frequency	Keysight Spectrum Analyzer - Power Stat CCD RL RF 50 0 DC Center Freq 1.910000000 C	SENSE:INT ALIGN OFF 05:47:33 PM Oct 23, 20	18 Frequency		
Verage Power	Center Freq	Average Power	100 %	Center Fr		
22.90 dBm 43.92 % at 0dB	1.852500000 GHz	22.74 dBm 43.86 % at 0dB	10 %	1.910000000 G		
1 %			1 %			
0.0 % 2.97 dB 0.0 % 5.40 dB		10.0 % 2.95 dB 1.0 % 5.45 dB	0.1 %			
0.1 % 6.16 dB 0.01 % 6.20 dB 0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man	0.1 % 6.51 dB 0.01 % 6.58 dB	0.01 %	CF St 5.000000 M Auto		
0.001 % 6.23 dB 0.0001 % 6.24 dB 0.001 % Peak 6.25 dB	Freq Offset 0 Hz	0.001 % 6.59 dB 0.0001 % 6.61 dB Peak 6.62 dB	0.001 %	Freq Off: 0		
29.15 dBm 0.0001 % 0 dB Info BW 5.0000 MHz	20 dB	29 36 dBm	0.0001 % 0 dB 20 d Info BW 10.000 MHz 20 d	B		



			LTE Band 25										
C	hannel Band	width: 1	5 MHz		Channel Bandwidth: 20 MHz								
Channel	Frequency	Peak to	o Averag (dB)	e Ratio	Channel	Frequency	Peak to Average Ratio (dB)						
	(MHz) QPSK 16QAM 64QAM		(MHz)	QPSK	16QAM	64QAM							
26115	1857.5	3.46	5.13	6.29	26140	1860.0	3.47	5.07	6.27				
26365	1882.5	3.41	4.28	5.33	26365	1882.5	3.39	4.17	5.26				
26615	1907.5	3.51	5.05	6.25	26590	1905.0	3.46	4.01	5.02				



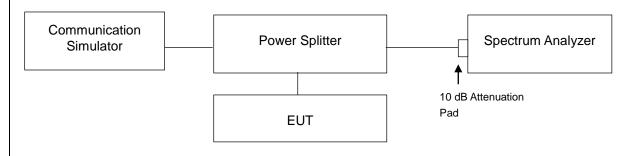


# 4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

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

# 4.7.2 Test Setup



## 4.7.3 Test Procedure

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 1 GHz. 10 dB attenuation pad is connected with spectrum.
   RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- c. Measuring frequency range is from 1 GHz to 26.5 GHz / 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.

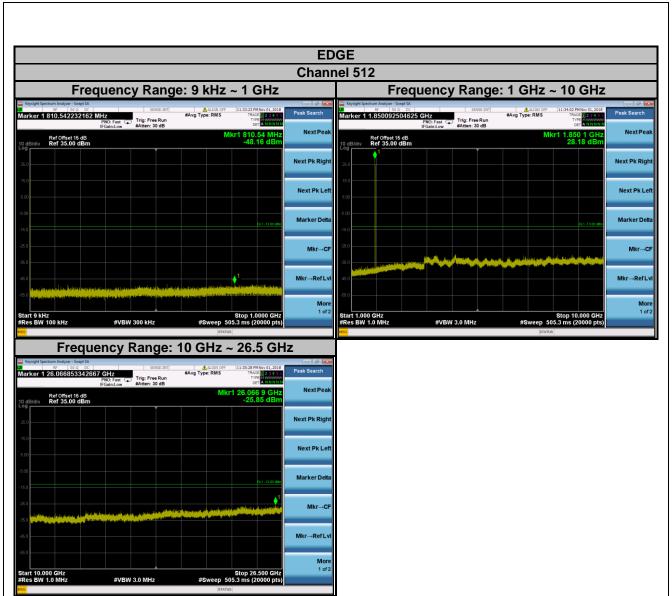


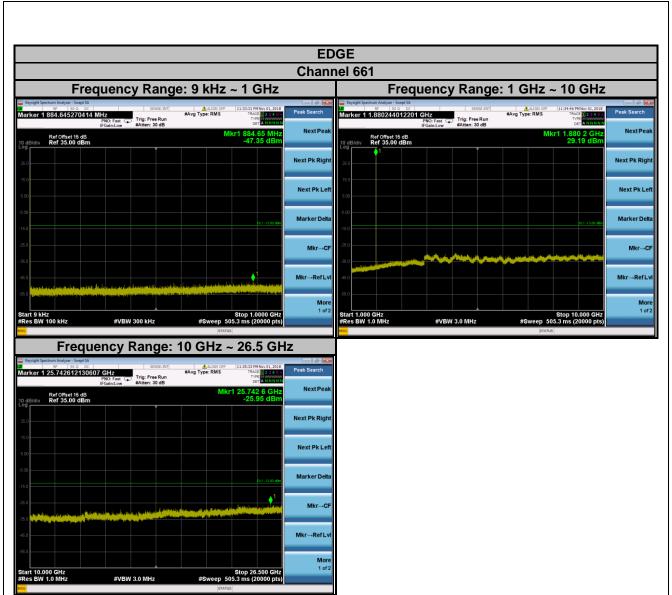
### 4.7.4 Test Results

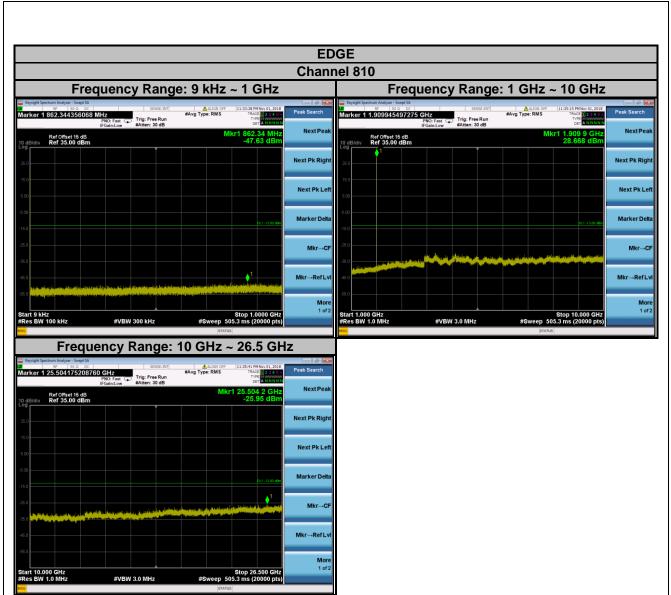
			G		
			Chanr	el 512	
Freq	uency Range	e: 9 kHz ~ 1 GHz		Frequency Range: 1 G	Hz ~ 10 GHz
Keysight Spectrum Analyzer - Swept SA     RF   S0 Ω DC       Marker 1 786.941264513 M	Z PNO: Fast FGain:Low #Atten: 30 dB	ALIGN OFF     11:02:02 PM Nov 01, 2018     #Avg Type: RMS     TRACE 2:345 0     TYPE     DET	Peak Search	Reysight Spectrum Analyzer - Skept SA           B         RF         S0 - DC         SENSE.INT         4           Marker 1 1.850092504625 GHz PNO: Fast FiGainLow         Trig: Free Run #Atten: 30 dB         #Avg Typ	DET A N N N N N
Ref Offset 15 dB 10 dB/div Ref 35.00 dBm	I I I	Mkr1 786.94 MHz -47.77 dBm	NextPeak	Ref Offset 15 dB 10 dB/div Ref 35.00 dBm	Mkr1 1.850 1 GHz 30.02 dBm
25.0			Next Pk Right	25.0	Next Pk Right
5.00			Next Pk Left	500	Next Pk Left
-5.00		DL1 -13.00 dBn	Marker Delta	500	Marker Delta
-25.0			Mkr→CF		Mkr→CF
-45.0	والمراجع والمراجع والمتعادية والمراجع والمراجع والمراجع	Terring sell i secol production i factore sel se des and se des factores i fa	Mkr→RefLvl		Mkr→RefLvl
-56 0 Martine in form the pro-	and the second	Stop 1.0000 GHz	More 1 of 2	55.0	More Stop 10.000 GHz
#Res BW 100 kHz MSG	#VBW 300 kHz	#Sweep 505.3 ms (20000 pts)		#Res BW 1.0 MHz #VBW 3.0 MHz #S	status
Freque	ncy Range:	10 GHz ~ 26.5 GH	lz		
Keysight Spectrum Analyzer - Swept SA	GHz PN0: Fast ( Trig: Free Run	ALIGN OFF 11:03:30 PM Nov 01, 2018 #Avg Type: RMS TRACE 12:14 5 0 Type: RMS	Peak Search		
Ref Offset 15 dB 10 dB/div Ref 35.00 dBm	PNO: Fast 🖵 ' Trig: Free Run FGain:Low #Atten: 30 dB	Mkr1 26.157 6 GHz -25.98 dBm	NextPeak		
25.0			Next Pk Right		
5.00			Next Pk Left		
.5.00		DL1 -13.00 (Bin	Marker Delta		
-15.0			Mkr→CF		
-35.0					
-45.0			Mkr→RefLvl		
Start 10.000 GHz		Stop 26.500 GHz	More 1 of 2		
#Res BW 1.0 MHz	#VBW 3.0 MHz	#Sweep 505.3 ms (20000 pts)			

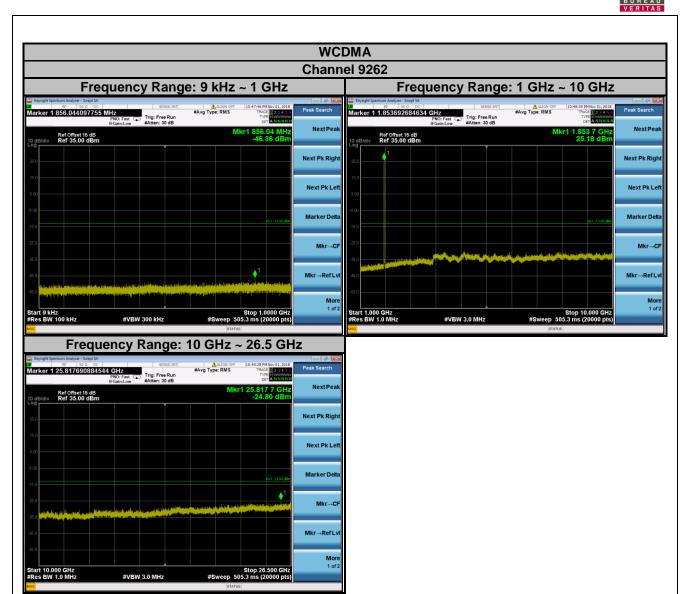
	G	-				
	Chanr					
Frequency Range: 9 kHz ~ 1 GH	Z	Fred	quency Rang	je: 1 GHz ~	10 GHz	
Pf         Status	Peak Search	Keysight Spectrum Analyzer - Swept SA RF 50 Q DC Marker 1 1.88024401220	PNO: Fast IFGain:Low #Atten: 30 dB	#Avg Type: RMS	DET A NNNN N	Peak Search
Ref Offset 15 dB Mkr1 928.35 M div Ref 35.00 dBm -47.58 dE	Hz NextPeak Bm	Ref Offset 15 dB		Mkr	1 1.880 2 GHz 30.21 dBm	NextPe
	Next Pk Right	250				Next Pk Rig
	Next Pk Left	5.00				Next Pk L
2(1.130)	Marker Delta	-15.0			0L1 -13.00 dBm	Marker De
	Mkr→CF	-25.0		and and a street little and a street state		Mkr→0
1 Longen den beitigen verschafte den eine kommen verschafte im der beitigen der stellte ster der ster der auf verschafte auf der ster der ster der	Mkr→RefLvi	-45.0				Mkr→RefL
	More 1 of 2	-55.0				<b>Мо</b> 1 о
9 kHz Stop 1.0000 G BW 100 kHz #VBW 300 kHz #Sweep 505.3 ms (20000 p	Hz ots)	Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz		Stop 10.000 GHz i.3 ms (20000 pts)	
		MSG		STATUS		
Frequency Range: 10 GHz ~ 26.5 G						
№         So @ DC         Sense:IntT         Auton ore #Avg Type: RMS         1104:57 PM two (r.); Trai: Free Run Freinduck           Free Run Freinduck         Trai: Free Run Historick         Trai: Free Run Biology         Trai: Free Run	Peak Search					
Ref 075et 15 dB Mkr1 26.165 9 G div Ref 35.00 dBm -26.09 dE	Hz NextPeak Sm					
	Next Pk Right					
	Next Pk Left					
21-13-0	Marker Delta					
	Mkr→CF					
	Mkr→RefLvl					
	More					

		-	SM			
			nel 810			
Frequency I	Range: 9 kHz ~	1 GHz	Freq	uency Range	e: 1 GHz ~ 10	GHz
Keyrsight Spectrum Analyzer - Swept SA FF 50 DC Irker 1 820.192627831 MHz FNO: Fast Trig IFGainLow IFGainLow	#Avg Type: RMS : Free Run en: 30 dB	1:02:11 PM Nov 01, 2018 TRACE 2 3 4 5 6 TYPE NUMBER OF A NUMBER OF A NUMBER OF A NUMBER OF A STREET OF	Reveight Spectrum Analyzer - Swept SA	5 GHz PN0: Fast IFGain:Low #Atten: 30 dB	#Avg Type: RMS TRAC TYR D	ANNNN
Ref Offset 15 dB dB/div Ref 35.00 dBm	Mkr	820.19 MHz -47.81 dBm	10 dB/div Ref Offset 15 dB Log		Mkr1 1.90 29.	9 9 GHz Next Pea 88 dBm
o		Next Pk Right	250			Next Pk Rig
0 		Next Pk Lef	5.00			Next Pk L
		Marker Delta	-5.00			Marker De
o o		Mkr→CF	-25.0		المتحديد والمتعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية	Mkr-4
o	taljan hyver over talda sever med tel kate var over de den tre sta	1 Mkr→RefLv	-45.0			Mkr→Refi
a material de sibil a frantzia y la su stal fan de generalistical district		More 1 of 2				Ma 1 o
art 9 kHz es BW 100 kHz #VBW 300	KHz #Sweep 505.3	top 1.0000 GHz I ms (20000 pts)	Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Stop 10 #Sweep 505.3 ms (2	.000 GHz
Frequency Ra	nge: 10 GHz ~ 2	26 5 GHz			514105	
Keysight Spectrum Analyzer - Swept SA RF S0 Ω DC	SENSE:INT	1:06:01 PM Nov 01, 2018 TRACE 12:04 578 Peak Search	1			
PNO: Fast Trig IFGain:Low #Atto	en: 30 dB	24.017 5 GHz Next Peak				
Ref Offset 15 dB dB/div Ref 35.00 dBm		-25.50 dBm				
0		Next Pk Right				
0		Next Pk Left				
0		041-13.00x8m Marker Delta				
	الله المحمد عنه منه عنه من الحمل المحمد عليه منه المعرف المحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد	1 Mkr→CF				
		Mkr→RefLv				

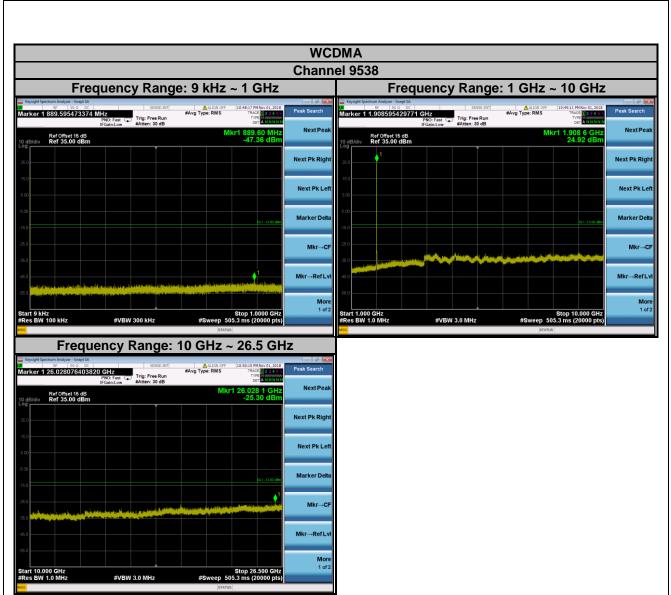


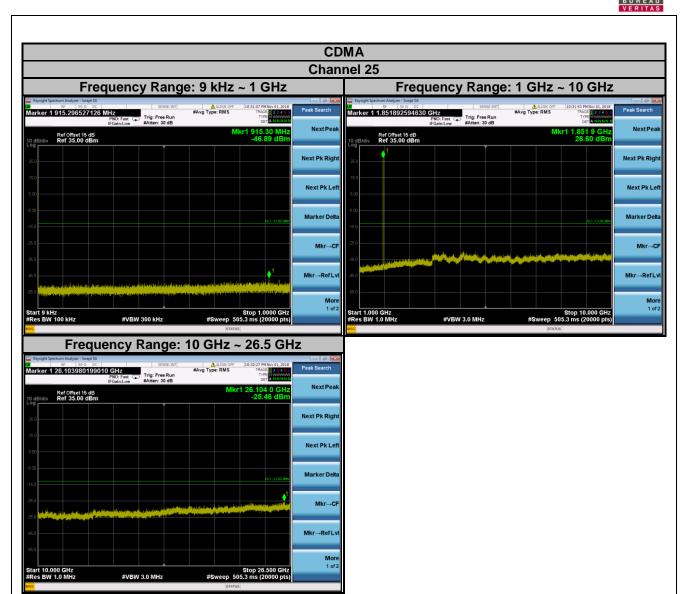


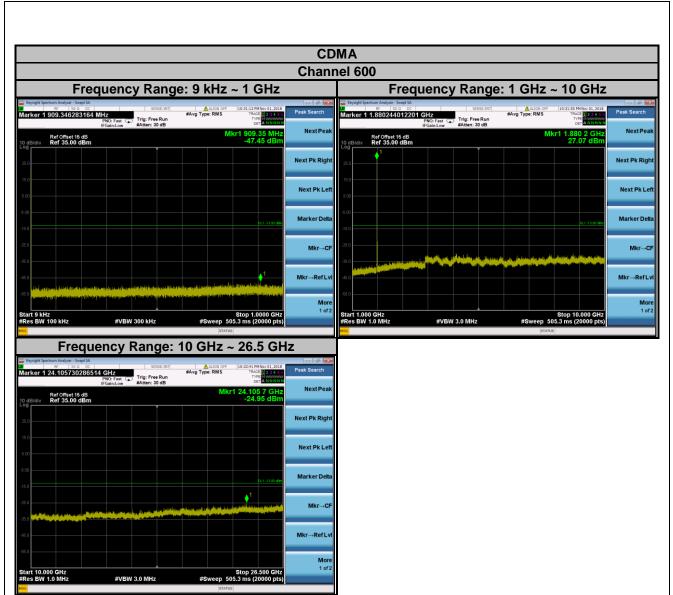




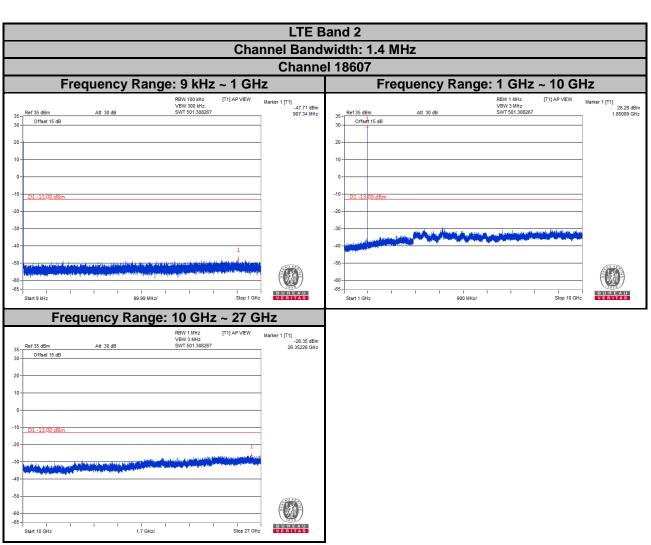
					WCDMA					
tender banden handen ha					hannel 94					
Image: Distance of the stance of the stan	Freque	ncy Range	: 9 kHz ~ 1	GHz		Frequ	uency Ran	ge: 1 GH	z ~ 10 GHz	
Are of Genet is dia       Intel 1 secol 10 min         Brance 10 min       Intel	rysight Spectrum Analyzer - Swept SA RF   50 Ω DC   rker 1 945.697773589 MHz PNO: 1 IFGain:	ast tow #Atten: 30 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET ANNNNN	Search Marker	pectrum Analyzer - Swept SA RF 50 Ω DC 1 1.881144057203	CHz PNO: Fast IFGain:Low HAtten: 30 c	#Avg Type: RM un	TRACE 123456 TYPE MWWWWW DET A NNNNN	Peak Search
Stop 10000 GHz     Stop 1000 GHz     Stop 10000 GHz     Stop 10000 GHz     Stop 10000 GHz     Stop 1000 GHz     Stop 10000 GHz     Stop 10000 GHz     Stop 10000 GHz     Stop 1000 GHz     Stop 100 GHz     Stop 1000 GHz     Stop 100 GHz     Stop	Ref Offset 15 dB B/div Ref 35.00 dBm		Mkr1 9	40.70 WINZ		Ref Offset 15 dB Ref 35.00 dBm			Mkr1 1.881 1 GHz 25.29 dBm	NextPe
Image: Second				Nex	200	<b>1</b>				Next Pk Rig
Arrier 12332116055803 CHz Try Frequency Range: 10 GHz 2000 pts) Try Frequency Range: 10 GHz 20				Ne	xt Pk Left					Next Pk L
Micro-CF a drag with grief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour some first drag k at a strengt drag with a hour brief a hour brief a hour some first drag k at a strengt drag with a hour brief a hour br				5.1.13.00 cBn	rker Delta				DL1-13.00 dBn	Marker De
The set of a start and a start					Mkr→CF				an dear an an an an air an	Mkr→
Ard 9 kHz Res EW 100 kHz #VEW 300 kHz #Sweep 505.3 ms (20000 pts) Trace Proceedings ************************************	and a same for a state of a state of the same of the	red and low of tables of poststation	un en fan de	1 Mki	r→RefLvi -45.0					Mkr→Refi
Art 9 kt/z storp 10.000 CH2 #Res BW 100 kHz #VBW 300 kH	na sa			a a tracitore	More					<b>M</b> c 1 c
Period       Next Period <tr< td=""><td>rt 9 kHz s BW 100 kHz</td><td>#VBW 300 kHz</td><td></td><td>o 1.0000 GHz is (20000 pts)</td><td>Start 1.0 #Res BV</td><td>00 GHz / 1.0 MHz</td><td>#VBW 3.0 MHz</td><td>#Swee</td><td></td><td></td></tr<>	rt 9 kHz s BW 100 kHz	#VBW 300 kHz		o 1.0000 GHz is (20000 pts)	Start 1.0 #Res BV	00 GHz / 1.0 MHz	#VBW 3.0 MHz	#Swee		
Twy big f particular Supplication       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"       Trige Free Run IF Colan Low     Trige Free Run IF Colan Low     Trige Free Run IF Colan Low     Colspan="2"       Colspan="2"     Trige Free Run IF Colan Low     Trige Free Run IF Colan Low     Colspan="2"       Colspan="2"     Next Peak Search       Next Peak       Colspan="2"       Colspan="2"       Colspan="2"       Trige Free Run IF Colan Low       Trige Free Run IF Colan Low       Colspan="2"       Next Peak Search       Next Pk Right       Next Pk Left       Marker Deta	<b>F</b>	Den ver 4	0.51100		MSG				STATUS	
artker 1 23.321116055803 GHz IFGaintow       Trig: Free Run Atten: 30 dB       Trig: Free Run Atten: 30 dB       Trig: Free Run Atten: 30 dB       Next Peak         d0/duty       Ref 35.00 dBm       -25.23 dBm       Next Pk Right         d0/duty       Ref 35.00 dBm       -25.23 dBm       Next Pk Right         d0/duty       Ref 35.00 dBm       -25.23 dBm       Next Pk Right         d0/duty       Ref 35.00 dBm       -25.23 dBm       Next Pk Right	rysight Spectrum Analyzer - Swept SA	y Range: 1		-						
Ref Offset 15 dB     Mkr1 23.321 1 GHz       20     -25.23 dBm       21     -25.23 dBm       22     -25.23 dBm       23     -25.23 dBm       24     -25.23 dBm       25     -25.23 dBm       25     -25.23 dBm       25     -25.23 dBm       26     -25.23 dBm       27     -25.23 dBm       28     -25.23 dBm       29     -25.23 dBm       29     -25.23 dBm       20     -25.23 dBm       20     -25.23 dBm       20     -25.23 dBm </td <td>ker 1 23.321116055803 GHz</td> <td>Trig: Free Run</td> <td>ALIGN OFF 10:49 #Avg Type: RMS</td> <td>TRACE 1 2 3 4 5 6 TYPE MWWWWW</td> <td>Search</td> <td></td> <td></td> <td></td> <td></td> <td></td>	ker 1 23.321116055803 GHz	Trig: Free Run	ALIGN OFF 10:49 #Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE MWWWWW	Search					
00     00       00     00       00     00       00     00	Ref Offset 15 dB		Mkr1 23.		Next Peak					
				Nex	t Pk Right					
National Activities and Activities Marker Delta				Ne	xt Pk Left					
				0L1 -13.00 dBm Ma	rker Delta					
50 MKrCF		الد فيصلحين من الريادي من مدينا	1		Mkr→CF					
MkrRefLv1	, I a destruct a	and the second sec		Mk	r→RefLvl					







			MA			
		Chann				
Frequency Range	e: 9 kHz ~ 1 GHz		Frequ	uency Range	e: 1 GHz ~ 10 G	Hz
Marker 1 976.499036452 MHz         SENSE:NT           Marker 1 976.499036452 MHz         Trig: Free Run IFGainLow	ALIGN OFF 10:31:22 PM Nov 01, 2018 #Avg Type: RMS TRACE 23 4 50 TYPE Det A NINN N	Peak Search	RF 50 Ω DC	GHZ PNO: Fast IFGain:Low HAtten: 30 dB	ALIGN OFF 10:32:09 PM Nov #Avg Type: RMS TRACE T TYPE DET	01,2018 Peak Search
Ref Offset 15 dB 10 dB/div Ref 35.00 dBm	Mkr1 976.50 MHz -47.66 dBm	NextFeak	Ref Offset 15 dB 10 dB/div Ref 35.00 dBm		Mkr1 1.908 6 26.59	GHZ dBm
25.0		Next Pk Right	25.0			Next Pk Right
5.00		Next Pk Left	5.00			Next Pk Left
-15.0	D(1.13.00 dbn	Marker Delta	-5.00		pci 4	Marker Delta
-25.0		Mkr→CF	-25.0		alle concernent alle to the particular distance in the	Mkr→CF
-45 0 100 - 41 - 10 - 41 - 10 - 41 - 10 - 41 - 10 - 41 - 10 - 41 - 10 - 41 - 10 - 10	t In a constituent of the particle in states a description of the	Mkr→RefLvl	-45.0			Mkr→RefLvl
Start 9 kHz         #VEW 300 kHz	Stop 1.0000 GHz #Sweep 505.3 ms (20000 pts)	More 1 of 2	Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Stop 10.000 #Sweep 505.3 ms (2000	GHz 1 of 2
MSC	STATUS		MSG	#VBW 5.0 MIn2	status	
Frequency Range:	10 GHz ~ 26.5 GH	z				
Keysight Spectrum Analyzer - Swept SA         PC         SNE::NT           Marker 1 26.3415920795004 GHz         Trig: Free Run           PRO: Fast         Trig: Free Run	ALIGN OFF 10:32:51 PM Nov 01, 2018 #Avg Type: RMS TRACE 12:21 F 6 TYPE DET ANNININ	Peak Search				
Ref Offset 15 dB 10 dB/div Ref 35.00 dBm	Mkr1 26.341 6 GHz -25.44 dBm	Next Peak				
25.0		Next Pk Right				
5.00		Next Pk Left				
150	DL1-13.00 abin	Marker Delta				
		Mkr→CF				
		Mkr→RefLvl				
-55.0		More				
Start 10.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz	Stop 26.500 GHz #Sweep 505.3 ms (20000 pts)	1 of 2				

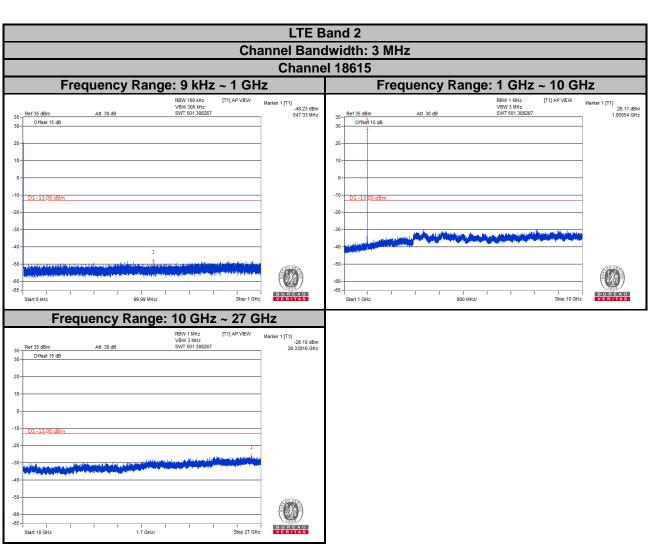


BUREAU VERITAS

	Sand 2
	lwidth: 1.4 MHz el 18900
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Ref 35 dBm         Att 30 dB         Marker 1 [T1] AP VEW           35         Ref 35 dBm         Att 30 dB         SWT 501.300287         Marker 1 [T1]         -46.87 dBm         822.54 MHz           30         Offset 15 dB	Ref 35 dBm         Alt 30 dB         SWT 501 306267         Marker 1 [T1]         28.16 dBm           30         0 frseh 15 dB
	-00 -00 -05 -51 -05 -51 -52 -00 -05 -51 -10 -10 -00 -05 -51 -10 -10 -10 -10 -10 -10 -10 -10 -10 -1
BBW IMI2 VBW 2 MI2 VBW	
-80- -85- Start 10 GHz 1.7 GHz/ Stop 27 GHz VERTAS	

THE R
BUREAU VERITAS

	Band 2	
	lwidth: 1.4 MHz el 19193	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz	
Ref 35 dBm         Att 30 dB         SWT 501.306267         Marker 1 [T1]         46.59 dBm         46.59 dBm         651.04 Mitz           30         Offset 15 dB         0 <th>RBW 1 Mit:         [T1] AP VEW         Marker 1 [T1]           36        </th>	RBW 1 Mit:         [T1] AP VEW         Marker 1 [T1]           36	
0- -10- -20- -30- -40- 1	0	
-50 -50 -50 -50 -50 -50 -50 -50	-50	
Ber 41 30 dB           SW 1 MHz VBW 3 MHz SWT 501 306267         Marker 1 [T1] 25 82 dBm 24 2086 OHz           10 D1 13 00 dBm           1 <td c<="" td=""><td></td></td>	<td></td>	
-50 -80 -65 - 51 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

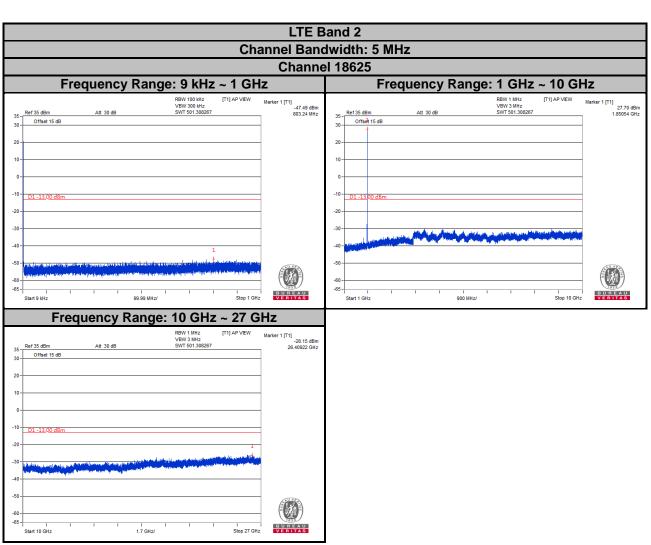


THE R
BUREAU VERITAS

LTE B	
Channel Band Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100 kHz         [T1] AP VEW VBW 300 kHz         Marker 1 [T1]         -47.92 dBm           30         Offset 15 dB         -47.92 dBm         772.54 MHz         772.54 MHz           10	Ref 35 dBm         Att 30 dB         SWT 501306267         Marker 1 [T1]         27.56 dBm           36         Offsek 15 dB         187844 GHz         187844 GHz         187844 GHz           20         -
	-30 -00 -00 -00 -00 -00 -00 -00
35         Ref 35 dBm         Att 30 dB         SWT 501.305267         28.11000 GHz           30         Offset 15 dB         0	
40 -50 -50 -50 -50 -50 -50 -50 -50 -50 -5	



	LTE B				
Char	nnel Band Channe	width: 3 MH	iz		
Frequency Range: 9 kHz ~ 1 GHz				je: 1 GHz ~ 10 G	Hz
RBW 100 kHz [T1] AP VIEW M VBW 300 kHz	larker 1 [T1] -47.05 dBm			RBW 1 MHz [T1] AP VIEW VBW 3 MHz	Marker 1 [T1] 28.05 dBm
35 - Ref 35 dBm Att 30 dB SW/T 501.308267 30 - Offset 15 dB	902.19 MHz	35 - Ref 35 dBm 30 - Offset 15 dB	Att 30 dB	SWT 501.308267	1.90724 GHz
20		20-			_
10-		10-			_
0-		0-			_
-10- D1-13.00 dBm		-10- <u>D1 -13.00 dBm</u>			_
-20 -		-20 -			_
-30 -		-30-	and the state of the		
-40		-40 -		,	-
-50 - Imaging the start of the material of the start of t		-50 -			
-65- Start 9 kHz 99.99 MHz/ Stop 1 GHz	BUREAU VERITAS	-65 - Start 1 GHz	I I I 900 MHz/	I I I Stop 10 GH	BUREAU Z VERITAS
Frequency Range: 10 GHz ~ 27 GH	z				
	larker 1 [T1] -24.42 dBm				
35 - Ref 35 dBm Att 30 dB SWT 501.308267 30 - Offset 15 dB	26.08365 GHz				
20-					
10					
0-					
-10 - D1 -13,00 d8m					
-20 - 1 +					
-40					
-50 -					
-80 -85 - 1 1 1 1 1 1 Start 10 GHz 1.7 GHz/ Stop 27 GHz					

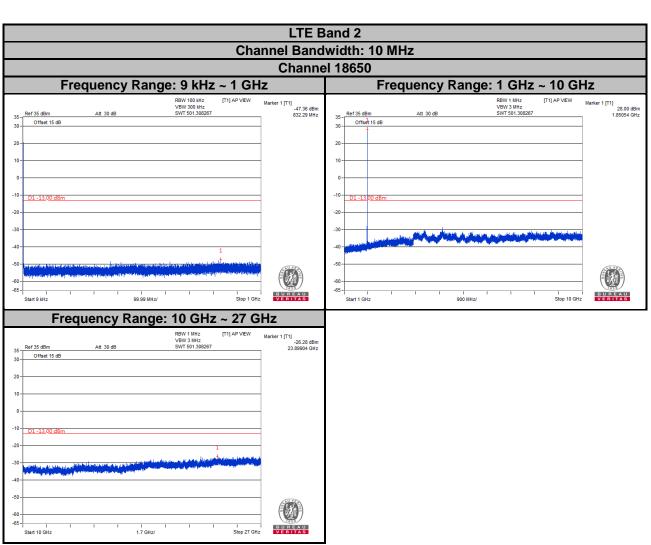




LTE B	
Channel Band	
Channe Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
REPUBLIC INCIDENCE OF RELIZION CONTROL OF TO THE CONTROL OF T	REVGLUE TO VELZ ~ TO VELZ           RBW1 MHz         [T] AP VEW           35         Ref 35 dBm         Atl 30 dB         SWT 501 306267         Marker 1 [T1]           30         Offsek 15 dB         1.87754 GHz         1.87754 GHz           20         1         1.87754 GHz         1.87754 GHz
0	0- -10- -20- -30- -40
	-50 -60 -65 -51 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Frequency Range: 10 GHz ~ 27 GHz           RBW 1 MHz VBW 3 MHz SWT 501 306287           ("1) AP VEW VBW 3 MHz SWT 501 306287           Offset 15 dB           Offset 15 dB           D 1-13 00 dBm           1	
-50 -60 -65 -51 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

BUREAU VERITAS

LTE Band 2 Channel Bandwidth: 5 MHz Channel 19175 Frequency Range: 9 kHz ~ 1 GKz ~ 10 GHz ************************************					
Channel 19175           Frequency Range: 9 kHz ~ 1 GHz         Frequency Range: 1 GHz ~ 10 GHz           Not total and total					
3     64     34     32.60     901 Martin 5     801 Martin 7     101 Martin 5       3     6     61 State     90 Martin 5     901 Martin 5     901 Martin 5       3     6     61 State     901 Martin 5     901 Martin 5       3     6     61 State     901 Martin 5     901 Martin 5       3     6     61 State     901 Martin 5     901 Martin 5       3     6     61 State     901 Martin 5     901 Martin 5       3     6     61 State     901 Martin 5     901 Martin 5       3     6     6     901 Martin 5     901 Martin 5       3     6     6     901 Martin 5     901 Martin 5       3     6     6     901 Martin 5     901 Martin 5       3     6     6     901 Martin 5     901 Martin 5       3     6     7     7     7     7       3     6     7     7     7     7       3     6     7     7     7     7     7       3     6     7     7     7     7     7       3     6     7     7     7     7     7       3     6     7     7     7     7     7					
Juint 1 and	Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz			
Frequency Range: 10 GHz ~ 27 GHz           BBW 1 Miz         F(1) A P VEW           35         Ref 35 dBm           Att 30 dB         SWT 501 302267           26 00450 OHz         28 00450 OHz           20	VBW 300 kHz         Att 30 dB         SWT 501 306267         SWT 501 306267           30         Offset 15 dB         902.99 MHz         902.99 MHz           20         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           20         Image: SWT 501 306267         902.99 MHz         902.99 MHz           10         Image: SWT 501 306267         902.99 MHz         902.99 MHz           20         Image: SWT 501 306267         Image: SWT 501 306267         902.99 MHz           20         Image: SWT 501 306267         Image: SWT 501 306267         1mage: SWT 501 306267           20         Image: SWT 501 306267         Image: SWT 501 306267         Image: SWT 501 306267         Image: SWT 501 306267           20         Image: SWT 501 306267 <t< th=""><th>UBW 3 MHz         22 93 dBm           35         Ref 35 dBm         Alt 30 dB         SWT 501 302867           30         Offset 15 dB         1 90544 OHz           20         Image: Contract of the second sec</th></t<>	UBW 3 MHz         22 93 dBm           35         Ref 35 dBm         Alt 30 dB         SWT 501 302867           30         Offset 15 dB         1 90544 OHz           20         Image: Contract of the second sec			
VBW 3 Miz         market 11 11         -25.28 dBm           35         Ref 35 dBm         Att 30 dB         SWT 501 308267         26 08450 GHz           30         Offset 15 dB         26 08450 GHz         26 08450 GHz           10         0         0         0         0           10         0         0         0         0           10         0         0         0         0           -10         0         0         0         0           -20         1         0         0         0           -20         1         0         0         0           -30         A th 30 dB         0         0         0           -40         0         0         0         0	Frequency Range: 10 GHz ~ 27 GHz				
	VBW 3 MHz         mallet 11 11 - 25 28 dBm           35         Ref 35 dBm         Att 30 dB         SWT 501.306267         28.00450 GHz           30         Offset 15 dB         28.00450 GHz         28.00450 GHz         28.00450 GHz           20				

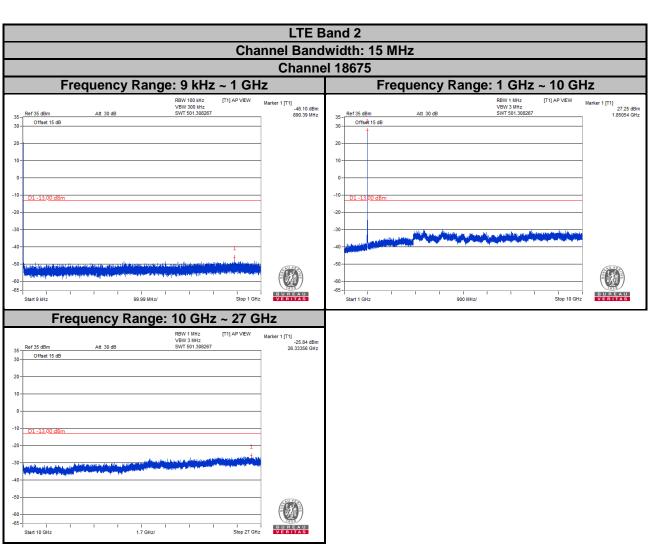




Channe	LTE Band 2 el Bandwidth: 10 MHz
	Channel 18900
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100.Htz         [T1] AP VEW         Marker           vBW 300.Htz         Comparison         Marker           ef 35 dBm         Att 30 dB         SWT 501.306267         Marker	-48.31 dBm 794.54 MHz 30 
D1-13,00 dBm	-10 - DI-13 20 dBm -20
	-60         -65-         -         -         -         -         0
Frequency Range: 10 GHz ~ 27 GHz	
RBW 11 Mtz         [T1] AP VEW         Marker           vBW 30 Mtz         Offset 15 dB         0	1111 -25.64 @m 28.46682 GHz
IIIIIIIIIIIIIIII ant 10 GHz 1.7 GHz/ Stop 27 GHz	



	Band 2		
Channel Bandwidth: 10 MHz			
	nel 19150		
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz		
RBW 100 kHz         [T1] AP VEW         Marker 1 [T1]         47.61 dB           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         768.54 MH           30         Offset 15 dB	Ref 35 dBm         Att 30 dB         SWT 501 308267         Marker 1 [T1]         20.05 dBm           35         Orfset 15 dB         1 90049 GHz         1 90049 GHz         1 90049 GHz           20         1         1 90049 GHz         1 90049 GHz         1 90049 GHz		
0- -10- 	0		
-40- -50-	-40 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Frequency Range: 10 GHz ~ 27 GHz			
REV 1 MHz VEW 3 Marker 1 [T1]         2-25.50 dB           35         Ref 35 dBm         Att 30 dB         SWT 501 308267         226 00070 GH           30         Offset 15 dB	m z		
-50 -80 -85 -85 -85 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1			

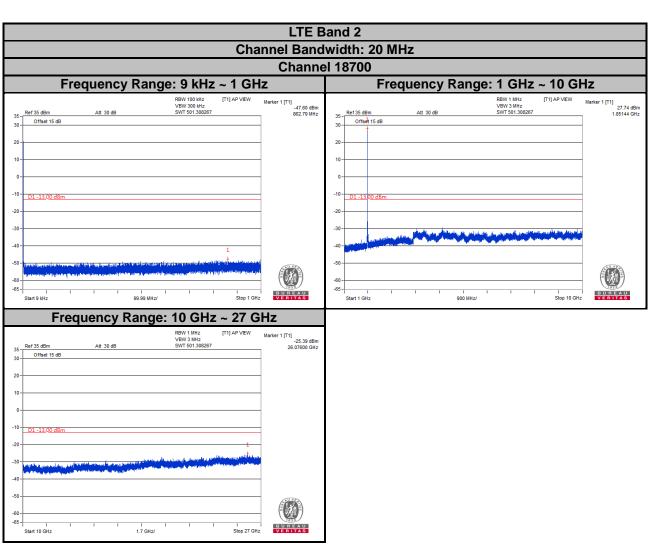


BUREAU VERITAS

LTE B	
Channel Band	
Channe Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100 kHz         [T1] AP VEW         Marker 1 [T1]           VBW 300 kHz         -46.75 dBm           36         -46.75 dBm         931.99 MHz           30         -         -           20         -         -           10         -         -           0         -         -	REVI 1M12         CITIAP VEW           REVI 1M12         Marker 1 [T1]         27.66 dbm           30         Offset 15 dB         SWT 501.300267         Marker 1 [T1]         27.66 dbm         1.87349 GHz           20         Image: Colspan="2">Colspan="2"           30         Offset 15 dB         Colspan="2"         Colspa="2"         Colspan="2"         C
	-20
Start 9 HHZ 99 99 MHZ/ Stop 1 GHZ VERITAG	Start 1 GHz 900 MHz/ Stop 10 GHz VERITEX 6
RBW 1 LIN::         [T1] AP VEW VBW 3 LIN::         Marker 1 [T1] 25.59 dBm           36	
-50 -50 -55 -50 -55 -51 -51 -51 -51 -51 -51 -51 -51 -51	

BUREAU VERITAS

	TE Band 2
	Bandwidth: 15 MHz annel 19125
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100 kHz [T1] AP VIEW Marker 1 [T1] VBW 300 kHz	7.14 dBm 2.89 MHz 1.6 9609 OHz 1.6 9609 OHz
-30 -40 -50 -50 -50 -50 -50 -50 -50 -5	-30 -40 -40 -50 -50 -50 -50 -50 -50 -50 -50 -50 -5
RBW 1 MHz [T1] AP VIEW Marker 1 [T1] VBW 3 MHz -2	8.00 dBm 9975 GHz

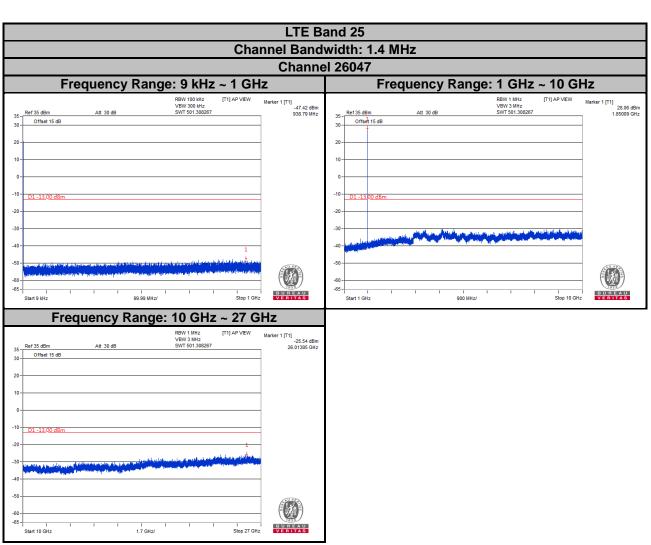




LTE B	
Channel Band	
Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Ref 35 dBm         Att 30 dB         SWT 501.308287         Marker 1 [T1]         -47.51 dBm           30         Offset 15 dB         0         655.74 MHz         655.74 MHz           20         0         0         0         0         0           10         0         0         0         0         0         0           -0         0	RBW 1 IH z         [T1] AP VEW         Marker 1 [T1]         27.72 dBm           35<
-50- -50-	-50 -80 -85 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Bit of the tip de         Cit of tip de	



LTE B	and 2
Channel Band	width: 20 MHz
Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Set 35 dBm         Att 30 dB         VEW 300 kHz         47.46 dBm           00         Offset 15 dB         673.04 MHz         873.04 MHz           20         Offset 15 dB         673.04 MHz         673.04 MHz	VBW 3 Miz 27.8 dBm 35 Ref 35 dBm Att 30 dB SWT 501.306267 30 Offset IS dB 20
10	10 
-30	
-00 -05 	-80- -65- Start 1 GHz 900 MHz/ Stop 10 GHz
Ref 35.dBm         Att 30.dB         SWT 501.306287         Marker 1 [T1]         -25.89.dBm         26.12275 GHz           20	
10	
-20 - 1 -30	
-50 -60 -65 -51 -51 to GHz 1.7 GHz/ Stop 27 GHz	

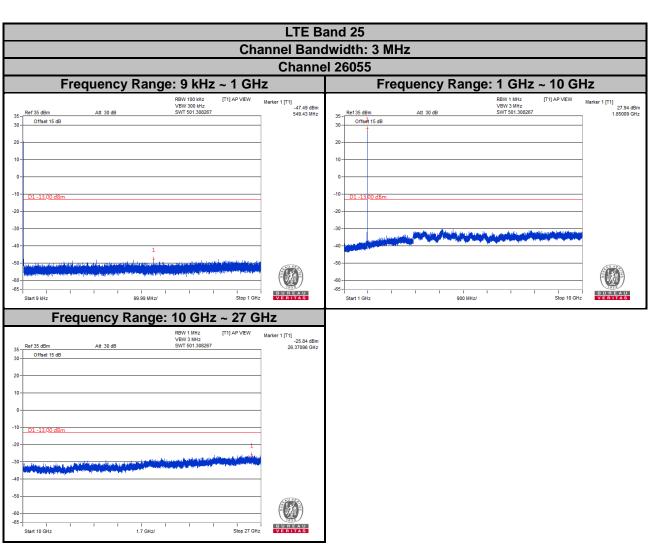




	Band 25
	dwidth: 1.4 MHz
	nel 26365
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100 Miz         [T1] AP VEW         Marker 1 [T1]           VBW 300 Miz         VBW 300 Miz         -47.72 display           35         Ref 35 dBm         Att 30 dB         SWT 501.306267           0         Offset 15 dB	BBW         TIME         TTTJ AP VEW         Marker 1 [T1]           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         188204 GHz           30         Offset 15 dB         188204 GHz         188204 GHz         188204 GHz           10
-40 -50 -50 -50 -50 -50 -50 -50 -5	-40
Frequency Range: 10 GHz ~ 27 GHz           Image: Internet of the second sec	

THE R
BUREAU VERITAS

	E Band 25
	andwidth: 1.4 MHz
	nnel 26683
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Rev 100 kHz         [T1] AP VEW         Market 1 [T1]         47.           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         572.           30         Offset 15 dB	No dBm VBW 30 Hz         REV 1 MHz (T1) AP VEW VBW 30 Hz         Marter 1 [T1] 20.30 dBm 1.91399 GHz           35         Ref 35 dBm         Att 30 dB         SWT 501.308287         1.91399 GHz           30         Offset 15 dB         1.91399 GHz         1.91399 GHz         1.91399 GHz           20         -         -         -         -         -           10         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           <
-50 -55 -55 -51 -51 -51 -51 -51 -51 -51 -51	
Frequency Range: 10 GHz ~ 27 GHz           Ref 35 dBm Att 30 dB         (I'I) AP VEW VBW 3 MATE         Marter 1 ['I'] - 26, 20, 100,207           30         Offset 15 dB	

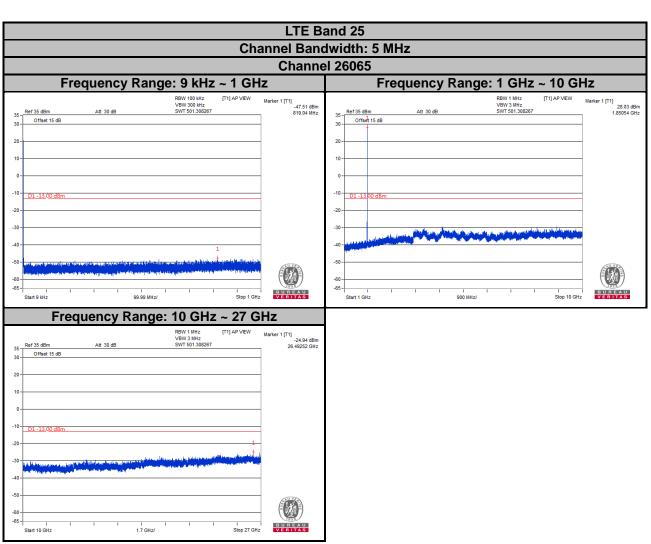




LTE Ba	and 25
Channel Band	
Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Ref 35 dBm         Att 30 dB         SWT 501.308287         Marker 1 [T1]         47 91 dBm           30         Offset 15 dB         673.84 MHz         673.84 MHz         673.84 MHz           20         -	RBV1 HMz         [T1] AP VEW VEW 3 Miz.         Marker 1 [T1]         28 19 dBm           35         Ref 35 dBm         Atf 30 dB         SWT 501 306267         188114 GHz           30         Offset 15 dB         188114 GHz         188114 GHz           20
-30 -40 -50 -40 -50 -50 -50 -50 -50 -50 -50 -5	
Bit 15 dB         Att 30 dB         SWT 501.306267         Marker 1 [T1]         20 02 dBm           20	



LTE Ba		
Channel Band		
Channe Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz	
REGULATING STREET STREET           REF 35 dBm         Att 30 dB         SWT 501.306267         Marker 1 [71]           35 - Ref 35 dBm         Att 30 dB         SWT 501.306267         Marker 1 [71]           36 - Ref 35 dBm         Att 30 dB         SWT 501.306267         TO 44 MHz           30 - Offset 15 dB         Colspan="2">Colspan="2"           Colspan="2">Colspan="2"         Colspan="2"          Colspan="2" <td cols<="" th=""><th>Regulating control contro control contro control control control control control control co</th></td>	<th>Regulating control contro control contro control control control control control control co</th>	Regulating control contro control contro control control control control control control co
10- -10- -10- -20- -30- -40- -10- -	10- -10- -10- D1-13.00 d8m -20- -30- -30- -40- 	
-50 - Utility and restricted and res	-50	
Frequency Range: 10 GHz ~ 27 GHz           (1) AP VEW           Warker 1 [71]           28.05 dBm           28.05 dBm           28.42452 OHz           1		
-50 -80 -85 I I I I I I I I I I Start 10 GHz 1.7 GHz/ Stop 27 GHz		

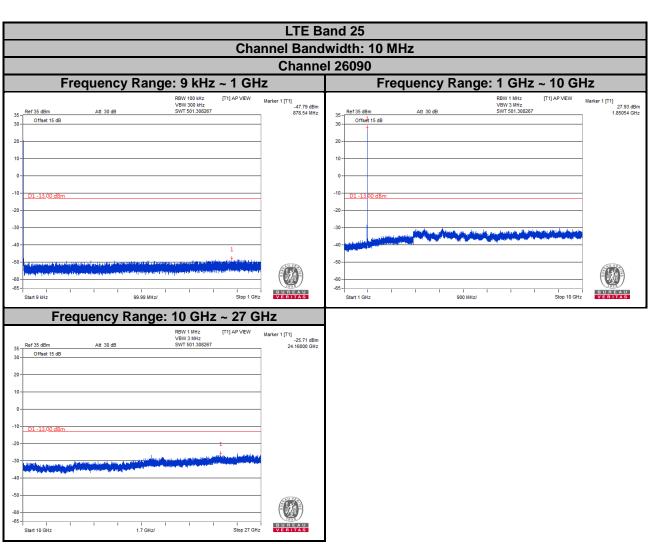




LTE Ba	
Channel Band	
Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
Att 30 dB         SWT 501.308287         Marker 1 [T1]         47.75 dBm           35         Ref 35 dBm         Att 30 dB         SWT 501.308287         848.54 MHz           30         Offset 15 dB         948.54 MHz         948.54 MHz           20         0         0         0         0           10         0         0         0         0         0	RBV 1 M/2         (T] AP VEW         Marker 1 [T1]           35         Ref 35 dBm         Att 30 dB         SWT 501.306267         27.58 dBm         1.88024 GHz           30         Offsel 15 dB         1         1.88024 GHz         1.88024 GHz         1.88024 GHz           20         -
-20 -30 -40 -50 -50 -50 -50 -50 -50 -50 -50 -50 -5	-20 -30 -40 -50 -50 -50 -50 -50 -50 -50 -50 -50 -5
Frequency Range: 10 GHz ~ 27 GHz	
Ref 35 dBm         Att 30 dB         SWT 1MHz         [T1] AP VEW VBW 3 MHz         Marker 1 [T1] -25 97 dBm           30         Offset 15 dB         -25 57 dHz         -25 57 dHz           20	
-50 -60 -65 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	



	Band 25
	dwidth: 5 MHz
	el 26665
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
VBW 300 HHz	VBW 3 MHZ 27.93 dB
20	20
10	10
0	0
-10	-10 - <u>D1 -13,00 d&amp;m</u>
-30	
-40	
	-50
Start 9 kHz 99 99 MHz/ Stop 1 GHz VERTAS	Start 1 GHz 900 MHz/ Stop 10 GHz VER LAN
Frequency Range: 10 GHz ~ 27 GHz	-
VBW 3 MHz -25.71 dBm -25.71 dBm -24.94289 GHz -24.94289 GHz	
00 Offset 15 dB	
10	
0	
-10	
-20	
-30 Kit And and here a set of the first and an element of the set	
-50	
-60	
-65- Start 10 GHz 1.7 GHz/ Stop 27 GHz VERITAS	

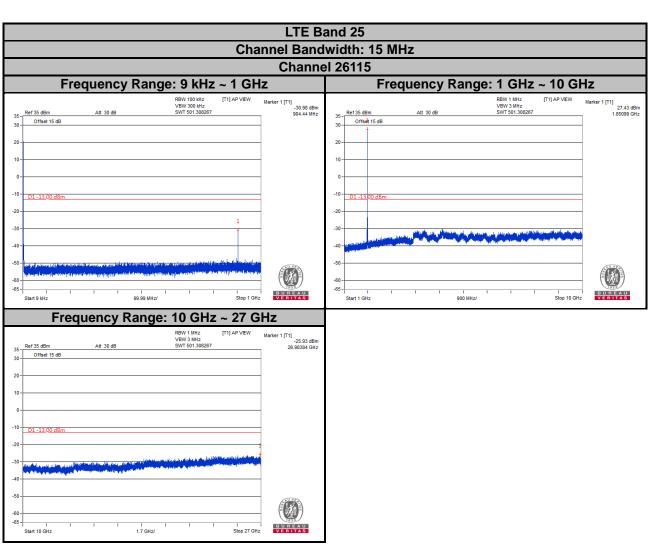




LTE Ba	
Channel Bandy	
Channe	
Frequency Range: 9 kHz ~ 1 GHz           RBW 100 kHz         [T1] AP VEW         Marker 1 [T1]         47.71 dBm           35 Ref 35 dBm         Att 30 dB         SWT 501 306267         Marker 1 [T1]         47.71 dBm           35 Ref 35 dBm         Att 30 dB         SWT 501 306267         Marker 1 [T1]         47.71 dBm	Frequency Range: 1 GHz ~ 10 GHz           RBW1 IM:: VBW 3 Min:           (T1) AP VEW VBW 3 Min:           SMT 50 300267           SMT 50 300267           187799 GHz 187799 GHz
0	
10 0- -10 DI -13 00 dBm	10 0
-20	
	-10
-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	-80- -65- Start 1 GHz 900 MHz/ Stop 10 GHz
Frequency Range: 10 GHz ~ 27 GHz	
BBY 1 Mitz         [T1] AP VEW         Marker 1 [T1]         -25.71 dBm           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         26.12785 GHz           30         Offset 15 dB         0         20.12785 GHz         26.12785 GHz	
10	
-10 D1-13.00 d8m	
-00 -05 -05 -05 -07 -07 -07 -07 -07 -07 -07 -07 -07 -07	



LTE Ba	and 25
Channel Band	
Channe	
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
RBW 100 kHz         [T1] AP VEW         Marker 1 [T1]	RBW1 MM2         [T1] AP VEW         Marker 1 [T1]           20         Att 30 dB         SWT 501.308267         130544 GHz           30         Offset 15 dB         130544 GHz         130544 GHz           20         Image: Colspan="2">Colspan="2"           20         Image: Colspan="2">Colspan="2"           10         Image: Colspan="2"         Image: Colspa=""Colspan="2"         Image: Colspa=""Colspan=
-10 - DI -13.00 dBm -20	-10 - D1 - 13 00 dBm -20 -30
-50 -50 -50 -50 -50 -51 -51 -51 -51 -51 -51 -51 -51 -51 -51	-50 -00 -00 -00 -00 -00 -00 -00 -00 -00
Ref 35 dbm         Marker 1 [[1]         -25.88 dbm           35         - Ref 35 dbm         - 25.88 dbm         - 25.88 dbm         28.30826 OHz           30         - Offset 15 db         - 28.30826 OHz         - 28.30826 OHz         - 28.30826 OHz           20	
-40 -50 -50 -50 -50 -55 -51art 10 GHz 1.7 GHz/ Stop 27 GHz	

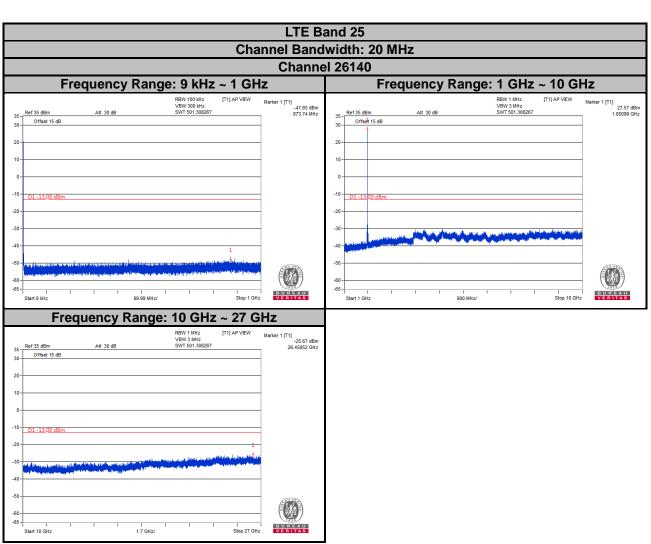


BUREAU VERITAS

LTE Band 25		
Channel Bandwidth: 15 MHz		
Channel 26365		
Frequency Range: 9 kHz ~ 1 GHz           (1] AP VEW VEW 300 Miz           (1] AP VEW VEW	Frequency Range: 1 GHz ~ 10 GHz           Image: 1 GHz ~ 10 GHz	
-10 - D - 13 00 d8m	-10 - D1-33 00 d8m	
-50- -50-	-50 -50 -50 -50 -50 -50 -50 -50 -50 -50	
Frequency Range: 10 GHz ~ 27 GHz           ("I] AP VEW VEW 3 MH2 VEW 3 MH2 OFfset 15 dB           ("I] AP VEW VEW 3 MH2 20		
-50 -60 -65 -55 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		



LTE Ba		
Channel Bandwidth: 15 MHz Channel 26615		
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz	
RBW 100 kHz         [T1] AP VEW         Marker 1 [T1]         -47.56 dBm           36         Ref 35 dBm         Att 30 dB         SWT 501.308267         888.49 MHz           30         Offset 15 dB         688.49 MHz         688.49 MHz         688.49 MHz           20         10         10         10         10         10         10	RBW 1 MHz         [T1] AP VEW         Marker 1 [T1]         Z7 59 dBm           35         Ret 35 dBm         Att 30 dB         SWT 501 308267         Marker 1 [T1]         27 59 dBm           30         Offselt 5 dB         190094 OHz         190094 OHz         190094 OHz           10         1         190094 OHz         190094 OHz         190094 OHz	
-10 D1-32.00.d8m -20 -30 -30 -40 -50 -50 -50 -50 -50 -50 -50 -5	10         13         00 dBm           -20	
Frequency Range: 10 GHz ~ 27 GHz	Stan 1 Gnz 300 Mn2/ Skp/ r0 Gnz	
RBW 1 MHz         [T1] AP VEW VBW 3 MHz         Marker 1 [T1] 25.33 dBm           30         Offset 15 dB        25.33 dBm         25.90654 OHz         25.90654 OHz           20		
-50 -60 -65 -51 -51art 10 GHz 1.7 GHz/ Stop 27 GHz		





LTE Ba	and 25	
Channel Bandwidth: 20 MHz		
Channel 26365		
Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz	
Rey 100 kHz         [[1]] AP VEW         Marker 1 [[1]         47.70 dBm           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         49.70 dBm         650.54 MHz           30         Offset 15 dB         650.54 MHz         650.54 MHz         650.54 MHz         650.54 MHz           20         0         0         0         0         0         0         0           10         0 </th <th>RBW 1 MHz [T<sup>1</sup>] AP VEW Marker 1 [T<sup>1</sup>]         Marker 1 [T<sup>1</sup>]         25 dBm           36         Ref 35 dBm         Atf 30 dB         SWT 501308267         1.87349 GHz           30         Offsek 15 dB         Image: SWT 501308267         1.87349 GHz         1.87349 GHz           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         1.87349 GHz           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           20         Image: SWT 501308267           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267</th>	RBW 1 MHz [T <sup>1</sup> ] AP VEW Marker 1 [T <sup>1</sup> ]         Marker 1 [T <sup>1</sup> ]         25 dBm           36         Ref 35 dBm         Atf 30 dB         SWT 501308267         1.87349 GHz           30         Offsek 15 dB         Image: SWT 501308267         1.87349 GHz         1.87349 GHz           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         1.87349 GHz           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           20         Image: SWT 501308267           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           20         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267           10         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267         Image: SWT 501308267	
-30 -40 -50 -40 -50 -60 -65 -65 -65 -65 -65 -65 -65 -65	-30 -00 -50 -50 -50 -50 -50 -50 -50 -50 -5	
Frequency Range: 10 GHz ~ 27 GHz           REV 1 MHz VEW 3 MHz SWT 50130267           10 GHz 41 30 dB           36 Gef 35 dBm Att 30 dB           SWT 50130267           20 Gef st 5 dB           10 D1-13,00 dBm           1 D1-13,00 dBm           1 D1-13,00 dBm           1 D1-13,00 dBm		
-50 -60 -65 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		



LTE Band 25 Channel Bandwidth: 20 MHz Channel 26590				
			Frequency Range: 9 kHz ~ 1 GHz	Frequency Range: 1 GHz ~ 10 GHz
			Rev 100 kHz         [T1] AP VEW         Marker 1 [T1]           35         Ref 35 dBm         Att 30 dB         SWT 501.308267         Marker 1 [T1]           30         Offset 15 dB         SWT 501.308267         Marker 1 [T1]         S05 59 MH           20         Image: SWT 501.308267         Image: SWT 501.308267         SWT 501.308267         Marker 1 [T1]           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267         Image: SWT 501.308267           20         Image: SWT 501.308267         Im	Ref 35 dBm         Att 30 dB         SWT 501306287         Marker 1 [71]           35         Orfset 15 dB         0         10 <t< td=""></t<>
-80 -85 -85 -85 -85 -91 -91 -91 -95 -95 -95 -95 -95 -91 -91 -91 -91 -91 -95 -95 -91 -91 -91 -91 -91 -91 -91 -91 -91 -91	-80- -85- -85- Start 1 GHz 900 MHz/ Stop 10 GHz VER IT A S			
Ref 35 dBm         Att 30 dB         SWT 501 308267         Marker 1 [T1]         2.81 2 dB, 2.80 6410 GH           30         Offset 15 dB         Offset 15 dB         2.80 6410 GH         2.80 6410 GH           20         Offset 15 dB         Image: 10 GH 2 GH				