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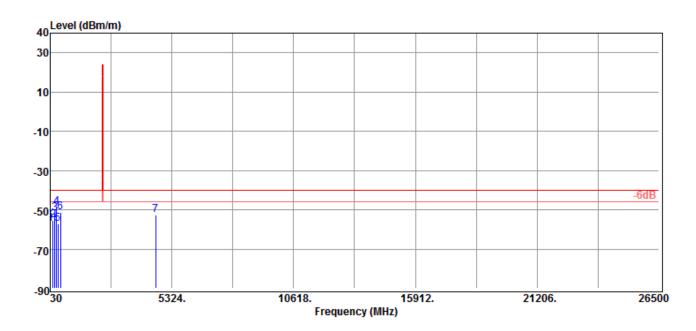


Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B30 5M QPSK RB1,0 :TX CH MID :E1 Plan :2310 MHz

Test Date Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :HORIZONTAL :Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.97	-56.95	-37.34	-19.15	-0.46	-40.00	-16.95
148.34	-55.27	-56.71	2.44	-1.00	-40.00	-15.27
228.85	-51.98	-56.05	5.43	-1.36	-40.00	-11.98
307.42	-48.80	-52.97	5.84	-1.67	-40.00	-8.80
370.47	-57.34	-61.04	5.69	-1.99	-40.00	-17.34
481.05	-51.32	-55.12	6.21	-2.41	-40.00	-11.32
4620.00	-52.72	-58.74	12.58	-6.56	-40.00	-12.72

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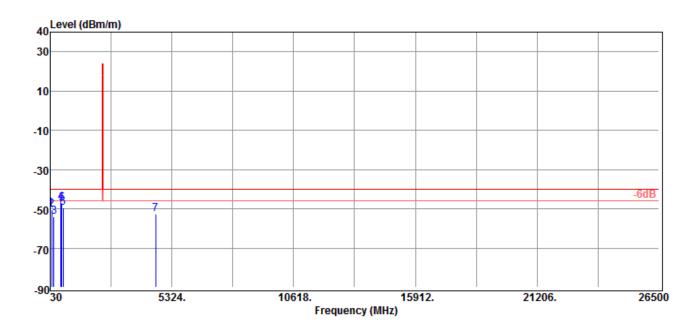


Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B30 5M QPSK RB1,0 :TX CH HIGH :E1 Plan :2312.5 MHz

Test Date Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :VERTICAL :Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.00	-49.82	-29.33	-20.05	-0.44	-40.00	-9.82
92.08	-50.21	-49.19	-0.20	-0.82	-40.00	-10.21
185.20	-53.91	-57.69	4.95	-1.17	-40.00	-13.91
496.57	-46.81	-50.51	6.28	-2.58	-40.00	-6.81
530.52	-47.49	-51.28	6.25	-2.46	-40.00	-7.49
589.69	-49.69	-54.10	6.58	-2.17	-40.00	-9.69
4625.00	-52.59	-58.60	12.57	-6.56	-40.00	-12.59

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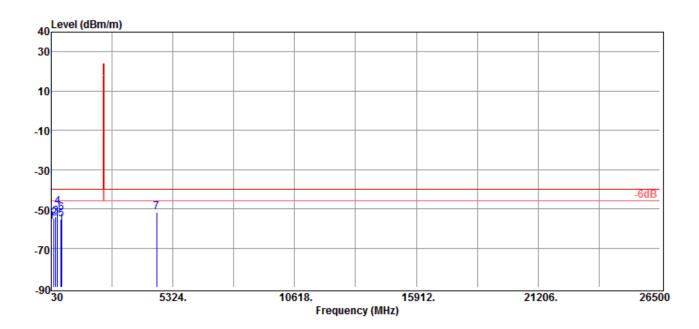


Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B30 5M QPSK RB1,0 :TX CH HIGH :E1 Plan :2312.5 MHz

Test Date Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :HORIZONTAL :Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-56.87	-38.11	-18.29	-0.47	-40.00	-16.87
149.31	-55.13	-56.62	2.49	-1.00	-40.00	-15.13
230.79	-53.83	-57.88	5.41	-1.36	-40.00	-13.83
305.48	-49.09	-53.27	5.84	-1.66	-40.00	-9.09
466.50	-55.33	-59.24	6.15	-2.24	-40.00	-15.33
485.90	-52.33	-56.10	6.23	-2.46	-40.00	-12.33
4625.00	-51.90	-57.91	12.57	-6.56	-40.00	-11.90

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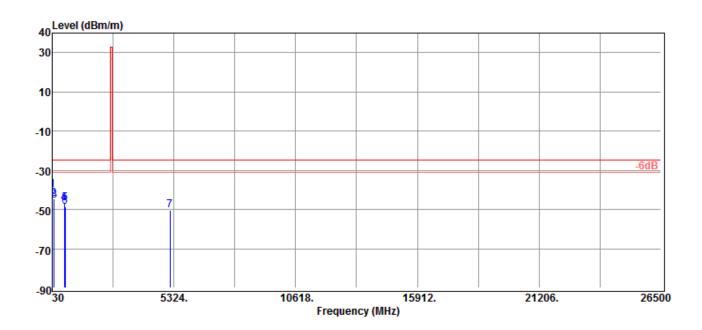
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B38 20M QPSK RB1,99 Test Date :TX CH LOW :E1 Plan :2580 MHz

Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :VERTICAL :Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-39.94	-22.81	-16.63	-0.50	-25.00	-14.94
95.96	-44.73	-43.34	-0.55	-0.84	-25.00	-19.73
110.51	-45.60	-44.66	-0.05	-0.89	-25.00	-20.60
556.71	-46.71	-50.67	6.28	-2.32	-25.00	-21.71
581.93	-46.95	-51.26	6.51	-2.20	-25.00	-21.95
587.75	-48.84	-53.22	6.56	-2.18	-25.00	-23.84
5160.00	-50.46	-56.46	12.67	-6.67	-25.00	-25.46

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-30

-50

-70

-90

30

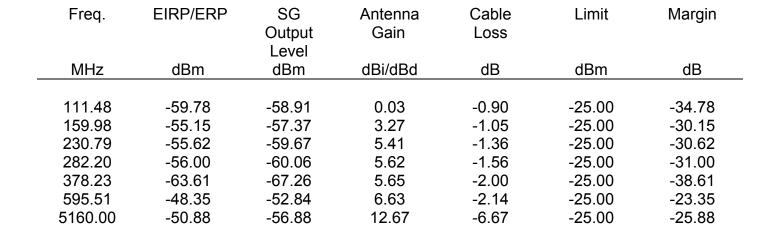
5324.

-6dE

26500

Operation Mode Test Mode EUT Pol Test Channel		:TX CH :E1 Plar	:LTE B38 20M QPSK RB1,99 :TX CH LOW :E1 Plan :2580 MHz			Test Date Temp./Humi. Antenna Pol. Engineer			:2018-11-30 :25/60 :HORIZONTAL :Enzo	
40	Level (dBm/	m)								
30										
10										
-10										

10618.



Frequency (MHz)

15912.

21206.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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Operation Mode Test Mode EUT Pol Test Channel	:TX CH MID :E1 Plan :2595 MHz	Test Date Temp./Humi. Antenna Pol. Engineer			:2018-11-30 :25/60 :VERTICAL :Enzo		
40 Level (dBm/m)							
30							
10							
-10							
-30							<u>-6dB</u>
-50 -50 -50 -50 -50 -50 -50 -50 -50 -50							
-70							
-90 <mark>30 53</mark>	24. 10	618. Frequency	159 (MHz)	12.	2120	06.	26500

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-40.92	-25.33	-15.06	-0.53	-25.00	-15.92
94.02	-44.81	-43.61	-0.37	-0.83	-25.00	-19.81
476.20	-53.63	-57.47	6.19	-2.35	-25.00	-28.63
556.71	-48.73	-52.69	6.28	-2.32	-25.00	-23.73
601.33	-44.19	-48.74	6.68	-2.13	-25.00	-19.19
734.22	-41.15	-46.40	7.38	-2.13	-25.00	-16.15
5190.00	-50.66	-56.72	12.70	-6.64	-25.00	-25.66



-30

-70

-90

30

5324.

6 -50

Operation Mode Test Mode EUT Pol Test Channel		:TX CH :E1 Plar	:LTE B38 20M QPSK RB1,99 :TX CH MID :E1 Plan :2595 MHz			Test Date Temp./Humi. Antenna Pol. Engineer			:2018-11-30 :25/60 :HORIZONTAL :Enzo	
40	Level (dBm/	m)								
30		[
10										
-10										

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94 96.93 250.19 282.20 482.02 601.33 5190.00	-47.43 -52.42 -46.87 -55.20 -60.60 -48.95 -51.17	-28.67 -50.94 -50.60 -59.26 -64.39 -53.50 -57.23	-18.29 -0.63 5.17 5.62 6.21 6.68 12.70	-0.47 -0.85 -1.44 -1.56 -2.42 -2.13 -6.64	-25.00 -25.00 -25.00 -25.00 -25.00 -25.00 -25.00	-22.43 -27.42 -21.87 -30.20 -35.60 -23.95 -26.17

Frequency (MHz)

15912.

21206.

26500

10618.

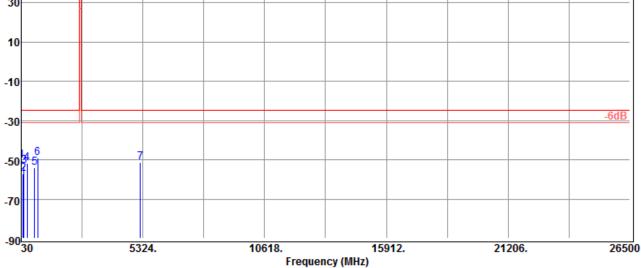


Operation Mode Test Mode EUT Pol Test Channel		:LTE B38 20M QPSK RB1,99 :TX CH HIGH :E1 Plan :2610 MHz			Test Date Temp./Humi. Antenna Pol. Engineer			:25/60	:VERTICAL	
40	Level (dBm/	m)								
30										
10										
-10										
										-6dB
-30										000
-50	5	7								
-50	4									
-70										
-90	30	532	·4.	10	618.	159	912.	212	06.	26500
	_				Frequenc		*			

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-49.29	-31.36	-17.44	-0.49	-25.00	-24.29
94.02	-45.27	-44.07	-0.37	-0.83	-25.00	-20.27
185.20	-52.77	-56.55	4.95	-1.17	-25.00	-27.77
306.45	-56.20	-60.38	5.84	-1.66	-25.00	-31.20
485.90	-50.97	-54.74	6.23	-2.46	-25.00	-25.97
568.35	-47.70	-51.82	6.39	-2.27	-25.00	-22.70
5220.00	-51.65	-57.77	12.73	-6.61	-25.00	-26.65



Operation Mode Test Mode EUT Pol Test Channel	:LTE B38 20M QPSK RB1,99 :TX CH HIGH :E1 Plan :2610 MHz	 Test Date Temp./Humi. Antenna Pol. Engineer 	:2018 :25/60 :HORI :Enzo	-11-30 ZONTAL
30				



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-50.35	-32.42	-17.44	-0.49	-25.00	-25.35
110.51	-57.19	-56.25	-0.05	-0.89	-25.00	-32.19
159.98	-53.28	-55.50	3.27	-1.05	-25.00	-28.28
283.17	-51.63	-55.70	5.63	-1.56	-25.00	-26.63
607.15	-53.90	-58.42	6.70	-2.18	-25.00	-28.90
741.98	-48.90	-54.20	7.39	-2.09	-25.00	-23.90
5220.00	-51.26	-57.38	12.73	-6.61	-25.00	-26.26



Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

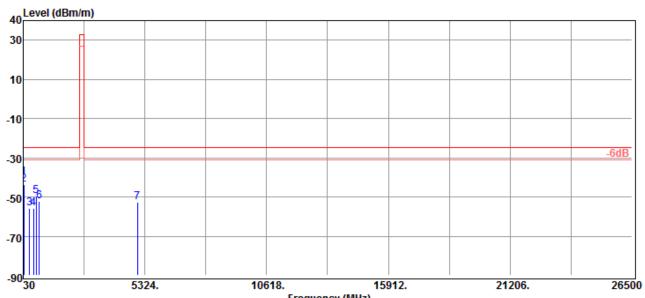
10M

Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B41 RB25,12 :TX CH LOW :E1 Plan :2501 MHz

^{16QAM} Test Date Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :VERTICAL :Enzo



Frequency (MHz)

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-39.95	-24.36	-15.06	-0.53	-25.00	-14.95
64.92	-43.55	-42.72	-0.14	-0.69	-25.00	-18.55
302.57	-55.59	-59.80	5.85	-1.64	-25.00	-30.59
477.17	-55.76	-59.59	6.19	-2.36	-25.00	-30.76
587.75	-49.44	-53.82	6.56	-2.18	-25.00	-24.44
730.34	-52.36	-57.59	7.37	-2.14	-25.00	-27.36
5002.00	-52.53	-58.20	12.50	-6.83	-25.00	-27.53

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Operation Mod Test Mode EUT Pol Test Channel	RB2 :TX :E1	E B41 101 25,12 CH LOW Plan 01 MHz	Temp	o./Humi. nna Pol.	:2018-1 :25/60 :HORIZO :Enzo	
Level (dBm/r	n)					
30						
30						
10						
-10						
-30						-6dB
-50	7					
-70						
-90 30						
30	5324.	106	18. 1 Frequency (MHz)	5912.	21206.	26500
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-49.27	-31.34	-17.44	-0.49	-25.00	-24.27
110.51 159.98	-53.28 -55.53	-52.34 -57.75	-0.05 3.27	-0.89 -1.05	-25.00 -25.00	-28.28 -30.53
231.76	-54.89	-58.91	5.39	-1.37	-25.00	-29.89
580.96	-49.24	-53.53	6.50	-2.21	-25.00	-24.24
591.63	-48.18	-52.62	6.60	-2.16	-25.00	-23.18
5002.00	-53.05	-58.72	12.50	-6.83	-25.00	-28.05



Operation Mode Test Mode EUT Pol Test Channel	:LTE B41 101 RB25,12 :TX CH MID :E1 Plan :2593 MHz	Temp	./Humi. ina Pol.	:2018-11 :25/60 :VERTIC :Enzo	
40 40					
30					
10					
-10					
					-6dB
-30					-000
-50					
-70					
-90 <mark>30 532</mark> 4	4 106	518. 15	912.	21206.	26500
50 552	4. 100	Frequency (MHz)	912.	21200.	20500
Freq. EIRP/EI	RP SG	Antenna	Cable	Limit	Margin
	Output	Gain	Loss	Linit	Margin
	Level				
MHz dBm	dBm	dBi/dBd	dB	dBm	dB
31.94 -48.90		-18.29	-0.47	-25.00	-23.90
96.93 -46.84		-0.63	-0.85	-25.00	-21.84
110.51 -48.10 185.20 -53.15		-0.05 4.95	-0.89 -1.17	-25.00 -25.00	-23.10 -28.15
229.82 -53.55		4.95 5.42	-1.17 -1.36	-25.00	-28.15 -28.55
569.32 -50.68		6.40	-2.26	-25.00	-25.68
5186.00 -52.90		12.69	-6.64	-25.00	-27.90



Operation Mod Test Mode EUT Pol Test Channel	RB25 :TX 0 :E1 F	CH MID	r F	ēst Date ēmp./Humi. Antenna Pol. Engineer	:25/60	IZONTAL
40	m)					
30						
50						
10						
-10						
-30						<u>-6dB</u>
-50						
-50 4	7					
-70						
-90						
-90 <mark>30</mark> -90	5324.	106	518. Frequency (N	15912. IHz)	21206.	26500
Freq.	EIRP/ERP	SG	Antenn		-	Margin
		Output Level	Gain	Loss	i	
MHz	dBm	dBm	dBi/dB	d dB	dBm	dB
	02	<u>u</u> Biii	40.40	<u>a 42</u>		
32.91	-41.25	-23.32	-17.44			-16.25
62.98	-46.63	-45.55	-0.41	-0.67		-21.63
110.51	-52.27	-51.33	-0.05	-0.89		-27.27
483.96	-55.51	-59.29	6.22	-2.44		-30.51
553.80	-50.71	-54.64	6.26	-2.33		-25.71
579.02	-50.47 -51.42	-54.74	6.49	-2.22 -6.64		-25.47 -26.42
5186.00	-31.42	-57.47	12.69	-0.04	-25.00	-20.42



Operation Mod Test Mode EUT Pol Test Channel	RB25,	H HIGH an	M 16QA	Temp	./Humi. na Pol.	:2018- :25/60 :VERT :Enzo	
Level (dBm/r	n)						
40							
30							
10							
-10							
							-6dB
-30							
-50	7						
-70							
-90 <mark>30</mark>	5324.	100	518. Frequend		912.	21206.	26500
			Frequenc	Cy (INHZ)			
Freq.	EIRP/ERP	SG	Ante	enna	Cable	Limit	Margin
·		Output	Ga	ain	Loss		0
N 41 1-	dDate	Level				dDate	٩D
MHz	dBm	dBm	aBI/	dBd	dB	dBm	dB
34.85	-39.18	-22.83	-15	.83	-0.52	-25.00	-14.18
64.92	-42.60	-41.77		14	-0.69	-25.00	-17.60
96.93	-44.39	-42.91		.63	-0.85	-25.00	-19.39
550.89	-49.79	-53.67		23 40	-2.35	-25.00	-24.79
579.02 737.13	-48.33 -49.66	-52.60 -54.93		49 38	-2.22 -2.11	-25.00 -25.00	-23.33 -24.66
5370.00	-51.92	-58.33		.87	-6.46	-25.00	-26.92



Operation Mod Test Mode EUT Pol Test Channel	RB25,	H HIGH an	M 16QA	Temp	./Humi. na Pol.	:25/60	-11-30 ZONTAL
40 Level (dBm/r	m)						
30							
10							
-10							
-30							<u>-6dB</u>
6							
-50	<u> </u>						
-70							
-70							
-90 <mark>30</mark>	5324.	100	518.	15	912.	21206.	26500
			Frequen				
Freq.	EIRP/ERP	SG	Anto	enna	Cable	Limit	Margin
TTEq.		Output		ain	Loss		Margin
		Level					
MHz	dBm	dBm	dBi/	dBd	dB	dBm	dB
33.88	-47.96	-30.83	-16	6.63	-0.50	-25.00	-22.96
110.51	-53.51	-52.57	-0	.05	-0.89	-25.00	-28.51
161.92	-57.29	-59.64		41	-1.06	-25.00	-32.29
227.88	-54.88	-58.97	-	44	-1.35	-25.00	-29.88
293.84 599.39	-55.69 -46.94	-59.86 -51.48	-	77 66	-1.60 -2.12	-25.00 -25.00	-30.69 -21.94
599.39 5370.00	-46.94 -51.29	-51.48 -57.70		00 .87	-2.12 -6.46	-25.00 -25.00	-21.94 -26.29
0010.00	01.20	01.10	12		0.40	20.00	20.20



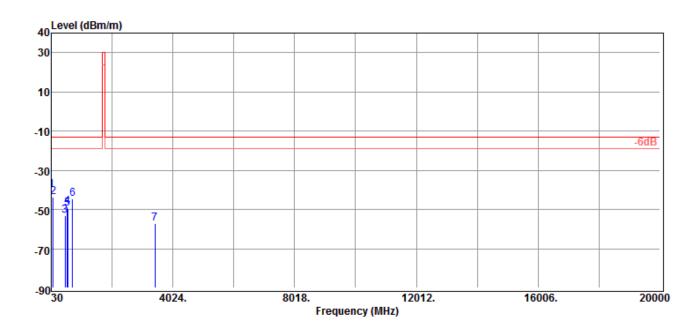
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode Test Mode EUT Pol **Test Channel**

:LTE B66 20M QPSK RB1,0 :TX CH LOW :E1 Plan :1720 MHz

Test Date Temp./Humi. Antenna Pol. Engineer

:2018-11-30 :25/60 :VERTICAL :Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-40.01	-21.25	-18.29	-0.47	-13.00	-27.01
96.93	-43.66	-42.18	-0.63	-0.85	-13.00	-30.66
483.96	-53.12	-56.90	6.22	-2.44	-13.00	-40.12
557.68	-48.70	-52.68	6.29	-2.31	-13.00	-35.70
571.26	-49.40	-53.57	6.42	-2.25	-13.00	-36.40
730.34	-44.50	-49.73	7.37	-2.14	-13.00	-31.50
3440.00	-56.96	-62.43	12.19	-6.72	-13.00	-43.96

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-10

-30

-50

-70

-90

30

4024.

-6dB

20000

16006.

Operation Mode Test Mode EUT Pol Test Channel	:LTE B66 20M QP :TX CH LOW :E1 Plan :1720 MHz	SK RB1,0	/Humi. na Pol.	:2018- :25/60 :HORI :Enzo	-11-30 ZONTAL
30					
10					

8018. 12012. Frequency (MHz)

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.97	-58.38	-38.77	-19.15	-0.46	-13.00	-45.38
110.51	-59.85	-58.91	-0.05	-0.89	-13.00	-46.85
159.98	-52.70	-54.92	3.27	-1.05	-13.00	-39.70
224.97	-55.72	-59.86	5.48	-1.34	-13.00	-42.72
311.30	-55.39	-59.54	5.84	-1.69	-13.00	-42.39
602.30	-49.88	-54.42	6.68	-2.14	-13.00	-36.88
3440.00	-55.88	-61.35	12.19	-6.72	-13.00	-42.88



Operation Mode Test Mode EUT Pol Test Channel	:LTE B66 20M QPSK RB1,0 :TX CH MID :E1 Plan :1745 MHz	Test Date Temp./Humi. Antenna Pol. Engineer	:2018-11-30 :25/60 :VERTICAL :Enzo	
40 Level (dBm/m)				
30				
10				
-10			-6dB	
-30				
- 50 3 ⁴ 7				
-70				
-90 <mark>1111 </mark>	4. 8018. Frequency		006. 20000	

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-40.92	-22.99	-17.44	-0.49	-13.00	-27.92
94.99	-44.67	-43.37	-0.46	-0.84	-13.00	-31.67
306.45	-54.77	-58.95	5.84	-1.66	-13.00	-41.77
480.08	-51.88	-55.69	6.21	-2.40	-13.00	-38.88
584.84	-47.01	-51.36	6.54	-2.19	-13.00	-34.01
736.16	-42.30	-47.56	7.38	-2.12	-13.00	-29.30
3490.00	-55.87	-61.19	12.28	-6.96	-13.00	-42.87



-50

-70

-90

Operation Mode Test Mode EUT Pol Test Channel	:LTE B66 20M QPSK F :TX CH MID :E1 Plan :1745 MHz	RB1,0 Test Date Temp./Humi. Antenna Pol. Engineer	:2018-11-30 :25/60 :HORIZONTAL :Enzo
40 Level (dBm/m)			
30			
10			
-10			
			-6dB
-30			

-90 <mark>-30</mark> -90	4024.	8018	3. 12 Frequency (MHz)	2012.	16006.	20000
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output	Gain	Loss		
		Level				
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-52.23	-38.10	-13.57	-0.56	-13.00	-39.23
159.98	-51.79	-54.01	3.27	-1.05	-13.00	-38.79
225.94	-54.02	-58.15	5.47	-1.34	-13.00	-41.02
282.20	-47.30	-51.36	5.62	-1.56	-13.00	-34.30
582.90	-46.06	-50.38	6.52	-2.20	-13.00	-33.06
731.31	-44.35	-49.58	7.37	-2.14	-13.00	-31.35
3490.00	-57.40	-62.72	12.28	-6.96	-13.00	-44.40



Operation Mode Test Mode EUT Pol Test Channel	:LTE B66 20M QPSK RB :TX CH HIGH :E1 Plan :1770 MHz	^{1,0} Test Date Temp./Humi. Antenna Pol. Engineer	:2018-11-30 :25/60 :VERTICAL :Enzo
40 Level (dBm/m)			
30			
10			
-10			
			6dB
-30			
2 5			
-50 46 7			
-70			
-90 <mark>1 </mark>	4. 8018.	12012.	16006. 20000
		quency (MHz)	

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-36.98	-19.85	-16.63	-0.50	-13.00	-23.98
94.02	-45.37	-44.17	-0.37	-0.83	-13.00	-32.37
109.54	-45.82	-44.81	-0.12	-0.89	-13.00	-32.82
483.96	-51.17	-54.95	6.22	-2.44	-13.00	-38.17
552.83	-47.00	-50.91	6.25	-2.34	-13.00	-34.00
730.34	-53.01	-58.24	7.37	-2.14	-13.00	-40.01
3540.00	-56.52	-61.89	12.33	-6.96	-13.00	-43.52



-30

-70

-90

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4024.

3 -50

Operati Test Mo EUT Po Test Ch	ode ol		:LTE B6 :TX CH :E1 Plar :1770 M	HIGH า	SK RB1,0	Temp.	/Humi. na Pol.	:25/60	-11-30 ZONTAL
40	ever (abm/	11)							
30-								 	
10									
-10									
									-6dB

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
159.01	-51.96	-54.12	3.20	-1.04	-13.00	-38.96
234.67	-53.93	-57.91	5.36	-1.38	-13.00	-40.93
282.20	-46.97	-51.03	5.62	-1.56	-13.00	-33.97
586.78	-46.05	-50.42	6.55	-2.18	-13.00	-33.05
597.45	-45.90	-50.42	6.65	-2.13	-13.00	-32.90
733.25	-54.21	-59.46	7.38	-2.13	-13.00	-41.21
3540.00	-56.92	-62.29	12.33	-6.96	-13.00	-43.92

Frequency (MHz)

12012.

16006.

20000

8018.



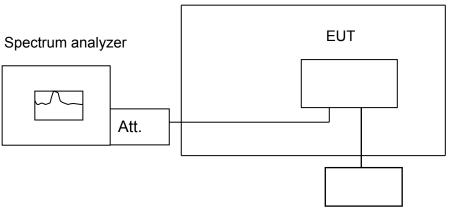
10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

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10.3. Measurement Procedure

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

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to

power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

Condu	Conducted Emission (measured at antenna port) Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19			
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14			
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29			
Attenuator	Marvelous	MVE2213-1 0	RF30	2017/12/26	2018/12/25			
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25			
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25			
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19			
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14			



10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz								
	Limit: +/- 2.5 ppm							
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)				
FI	REQUENCY I	Error vs. Vo	LTAGE					
17.71	20	1879.999995	-5.000000101	4700				
15.4	20	1880.00008	7.99999998	4700				
13.09	20	1880	0	4700				
11.4V (End point)	20	1879.999996	-3.999999999	4700				
FREQUENCY ERROR vs. Temp.								
15.4	50	1879.999992	-7.99999998	4700				
15.4	40	1879.999997	-3.000000106	4700				
15.4	30	1880	0	4700				
15.4	20	1880.000003	3.00000106	4700				
15.4	10	1880.000009	9.00000091	4700				
15.4	0	1879.999995	-5.000000101	4700				
15.4	-10	1880.00002	1.999999995	4700				
15.4	-20	1880.000007	7.00000096	4700				
15.4	-30	1880.000001	1.000000111	4700				



	WCDMA I	V Mid Channel	1732.6	MHz					
	Limit: +/- 2.5 ppm								
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)					
FI	REQUENCY E	Error vs. VC	LTAGE						
17.71	20	1732.600002	1.999999995	4331					
15.4	20	1732.599991	-8.999999864	4331					
13.09	20	1732.599989	-10.99999986	4331					
11.4V (End point)	20	1732.599997	-2.999999879	4331					
	FREQUENCY ERROR vs. Temp.								
15.4	50	1732.599991	-8.999999864	4331					
15.4	40	1732.600003	3.00000106	4331					
15.4	30	1732.599996	-3.99999999	4331					
15.4	20	1732.6	0	4331					
15.4	10	1732.599988	-11.99999997	4331					
15.4	0	1732.599999	-0.999999884	4331					
15.4	-10	1732.600005	5.000000101	4331					
15.4	-20	1732.599992	-7.99999998	4331					
15.4	-30	1732.599989	-10.99999986	4331					



	WCDMA V	V Mid Channel	836.6	MHz				
	Limit:	+/- 2.5 ppm						
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)				
FI	REQUENCY E	Error vs. VC	ITAGE					
17.71	20	836.600006	5.999999985	2091				
15.4	20	836.600001	0.999999997	2091				
13.09	20	836.600004	3.99999999	2091				
11.4V (End point)	20	836.600001	0.999999997	2091				
	FREQUENCY ERROR vs. Temp.							
15.4	50	836.599997	-2.999999992	2091				
15.4	40	836.600002	1.999999995	2091				
15.4	30	836.600005	4.999999987	2091				
15.4	20	836.599997	-2.999999992	2091				
15.4	10	836.600002	1.999999995	2091				
15.4	0	836.6	0	2091				
15.4	-10	836.599991	-8.999999977	2091				
15.4	-20	836.600001	0.999999997	2091				
15.4	-30	836.600004	3.99999999	2091				



Reference Freq.:		B2 Mid annel	1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		Freq. ERROR vs	S. VOLTAGE	
17.71	25	1880.000000	0	4700
15.4	25	1880.000005	5.0000001	4700
13.09	25	1879.999996	-4	4700
11.4 (End Point)	25	1879.999992	-8	4700
		Freq. ERROR	vs. Temp.	
15.4	-30	1880.000001	1.0000001	4700
15.4	-20	1880.000008	8	4700
15.4	-10	1880.000000	0	4700
15.4	0	1880.000008	8	4700
15.4	10	1880.000005	5.0000001	4700
15.4	20	1879.999998	-2	4700
15.4	30	1880.000000	0	4700
15.4	40	1879.999992	-8	4700
15.4	50	1880.000008	8	4700
Reference Freq.:		B4 Mid annel	1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc		Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		req. ERROR vs	S. VOLTAGE	
17.71	25	1732.499999	-1	4331
15.4	25	1732.499999	-1	4331
13.09	25	1732.500005	5.0000001	4331
11.4 (End Point)	25	1732.499995	-5	4331
		Freq. ERROR	vs. Temp.	
15.4	-30	1732.499998	-2	4331
15.4	-20	1732.499993	-7	4331
15.4	-10	1732.500001	1.0000001	4331
15.4	0	1732.500006	6	4331
15.4	10	1732.500002	2	4331
15.4	20	1732.500004	4	4331
15.4	30	1732.500005	5.0000001	4331
15.4	40	1732.499999	-1	4331
15.4	50	1732.500003	3.0000001	4331



Reference Freq.:		B5 Mid annel	836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	F	Freq. ERROR vs	S. VOLTAGE	
17.71	25	836.500004	4	2091
15.4	25	836.499995	-5	2091
13.09	25	836.499998	-2	2091
11.4 (End Point)	25	836.499991	-9	2091
		Freq. ERROR	vs. Temp.	
15.4	-30	836.499992	-8	2091
15.4	-20	836.499998	-2	2091
15.4	-10	836.499996	-4	2091
15.4	0	836.499991	-9	2091
15.4	10	836.499997	-3	2091
15.4	20	836.500004	4	2091
15.4	30	836.499990	-10	2091
15.4	40	836.500002	2	2091
15.4	50	836.499998	-2	2091
Reference Freq.:		B7 Mid annel	2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	F	req. ERROR vs	S. VOLTAGE	
17.71	25	2534.999995	-5	6338
15.4	25	2535.000008	8	6338
13.09	25	2534.999994	-6	6338
11.4 (End Point)	25	2535.000007	7.0000001	6338
		Freq. ERROR	vs. Temp.	
15.4	-30	2534.999998	-2	6338
15.4	-20	2535.000004	4	6338
15.4	-10	2535.000004	4	6338
15.4	0	2534.999990	-10	6338
15.4	10	2534.999998	-2	6338
15.4	20	2534.999995	-5	6338
15.4	30	2534.999994	-6	6338
		2534.999994 2534.999993	-6 -7	6338 6338



Reference Freq.:	ence Freq.: LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	ŀ	Freq. ERROR vs	S. VOLTAGE		
17.71	17.712515.425		6	1769	
15.4			-10	1769	
13.09	25	707.500001	1	1769	
11.4 25 (End Point)		707.500001	1	1769	
		Freq. ERROR	vs. Temp.		
15.4	-30	707.500005	5	1769	
15.4	-20	707.500006	6	1769	
15.4	-10	707.499992	-8	1769	
15.4	0	707.500006	6	1769	
15.4	10	707.500009	9	1769	
15.4	20	707.499992	-8	1769	
15.4	30	707.499994	-6	1769	
15.4	15.4 40		0	1769	
15.4	50	707.500008	8	1769	
Reterence Fren ·		B13 Mid 782 annel		MHz 10M QPSK CH 23230	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	F	Freq. ERROR vs	5. VOLTAGE		
17.71	25	781.999992	-8	1955	
15.4	25	782.000008	8	1955	
13.09	25	781.999999	-1	1955	
11.4 (End Point)	25		-1	1955	
		Freq. ERROR	vs. Temp.		
15.4	-30	782.000004	4	1955	
15.4	-20	782.000002	2	1955	
15.4	-10	781.999992	-8	1955	
15.4	0	782.000000	0	1955	
		700 00000	4	1955	
15.4	10	782.000004	1		
<u>15.4</u> 15.4	10 20	782.000004 782.000001	1	1955	
				1955 1955	
15.4	20	782.000001	1		



Reference Freq.:	LTE B14 Mid Channel		793	MHz 10M QPSK CH 23330			
Power Supply Vdc	Temp. (°C) Freq. (MHz)		Delta (Hz)	Limit = +/- 1.25 ppm (Hz)			
		s. VOLTAGE					
17.71	25	25 793.000007		1983			
15.4	25	793.000001	1	1983			
13.09	25	792.999999	-1	1983			
11.4 (End Point)	25	793.000005	5	1983			
Freq. ERROR vs. Temp.							
15.4	-30	793.000002	2	1983			
15.4	-20	792.999990	-10	1983			
15.4	-10	793.000007	7	1983			
15.4	0	793.000005	5	1983			
15.4	10	792.999993	-7	1983			
15.4	20	793.000003	3	1983			
15.4	30	792.999998	-2	1983			
15.4	40	793.000002	2	1983			
15.4	50	792.999992	-8	1983			

Reference Freq.:	LTE B17 Mid Channel		710	MHz 10M QPSK CH 23790			
Power Supply Vdc	Temp. (°C) Freq. (MHz)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)			
Freq. ERROR vs. VOLTAGE							
17.71	25	709.999996	-4	1775			
15.4	25	709.999997	-3	1775			
13.09	25	710.000003	3	1775			
11.4 (End Point)	25	710.000009	9	1775			
Freq. ERROR vs. Temp.							
15.4	-30	-30 710.000003		1775			
15.4	-20	710.000007	7	1775			
15.4	-10	709.999994	-6	1775			
15.4	0	709.999997	-3	1775			
15.4	10	709.999990	-10	1775			
15.4	20	709.999990	-10	1775			
15.4	30	709.999993	-7	1775			
15.4	40	710.000005	5	1775			
15.4	50	709.999995	-5	1775			

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Reference Freq.:	LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365		
Power Supply Vdc	Temp. Freq. (°C) (MHz)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		
		Freq. ERROR vs	s. VOLTAGE			
17.71	25 1882.499997		-3	4700		
15.4	25	1882.499999	-1	4700		
13.09	25	1882.499997	-3	4700		
11.4 (End Point)	25	1882.499995	-5	4700		
		Freq. ERROR	vs. Temp.			
15.4	15.4 -30 1882.499994		-6	4700		
15.4	-20	1882.500009	9.000001	4700		
15.4	-10	1882.500006	6	4700		
15.4	0	1882.499993	-7	4700		
15.4	10	1882.500005	5.0000001	4700		
15.4	20	1882.500002	2	4700		
15.4	30	1882.499997	-3	4700		
15.4	40	1882.499996	-4	4700		
15.4	50	1882.499995	-5	4700		



Reference Freq.:	LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	F	req. ERROR vs	. VOLTAGE		
17.71	25	831.500002	2	2091	
15.4	25	831.500002 2		2091	
13.09	25	831.500009	9	2091	
11.4 (End Point)	25 831.4999		-10	2091	
		Freq. ERROR	vs. Temp.		
15.4	-30	831.499992	-8	2091	
15.4	-20	831.499996	-4	2091	
15.4	-10	831.499998	-2	2091	
15.4	0	831.500006	6	2091	
15.4	10	831.500006	6	2091	
15.4	20	831.499999	-1	2091	
15.4	30	831.499995	-5	2091	
15.4	40	831.500007 7		2091	
15.4	50	831.500008	8	2091	
Reference Freq.: Part 90 LTE		TE B26 Mid	819	MHz 10M QPSK CH 26740	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Dalta (117)		
			Della (HZ)	Limit = +/- 2.5 ppm (Hz)	
	Freq. ERRC		Delta (Hz) E (LTE B26		
17.71	Freq. ERRC	0R vs. VOLTAG 818.999992			
17.71 15.4		DR vs. VOLTAG	E (LTE B26	for Part 90S)	
	25	OR vs. VOLTAG 818.999992	E (LTE B26	for Part 90S) 2048	
15.4 13.09 11.4	25 25	DR vs. VOLTAG 818.999992 818.999997	E (LTE B26 -8 -3	for Part 90S) 2048 2048	
15.4 13.09	25 25 25	DR vs. VOLTAG 818.999992 818.999997 819.000000	E (LTE B26 -8 -3 0 8	for Part 90S) 2048 2048 2048 2048	
15.4 13.09 11.4	25 25 25	DR vs. VOLTAG 818.999992 818.999997 819.000000 819.000008	E (LTE B26 -8 -3 0 8	for Part 90S) 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point)	25 25 25 25 25	DR vs. VOLTAG 818.999992 818.999997 819.000000 819.000008 Freq. ERROF	E (LTE B26 -8 -3 0 8 R vs. Temp.	for Part 90S) 2048 2048 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point) 15.4	25 25 25 25 25 -30	R vs. VOLTAG 818.999992 818.999997 819.000000 819.000008 Freq. ERROF 819.000008	E (LTE B26 -8 -3 0 8 R vs. Temp. 8	for Part 90S) 2048 2048 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point) 15.4 15.4	25 25 25 25 25 -30 -20	PR vs. VOLTAG 818.999992 818.999997 819.000000 819.000008 Freq. ERROF 819.000008 819.000008	E (LTE B26 -8 -3 0 8 8 vs. Temp. 8 -9	for Part 90S) 2048 2048 2048 2048 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point) 15.4 15.4 15.4	25 25 25 25 -30 -20 -10	PR vs. VOLTAG 818.999992 818.999997 819.000000 819.000008 Freq. ERROF 819.000008 819.000008 819.000008 819.000008 819.000008 819.000008 819.000008 818.999991 818.999998	E (LTE B26 -8 -3 0 8 R vs. Temp. 8 -9 -2	for Part 90S) 2048 2048 2048 2048 2048 2048 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point) 15.4 15.4 15.4 15.4 15.4	25 25 25 25 -30 -20 -10 0	PR vs. VOLTAG 818.999992 818.999997 819.000000 819.000008 Freq. ERROF 819.000008 819.000008 819.000008 819.000008 818.999991 818.999998 818.999996	E (LTE B26 -8 -3 0 8 Vs. Temp. 8 -9 -2 -4	for Part 90S) 2048 2048	
15.4 13.09 11.4 (End Point) 15.4 15.4 15.4 15.4 15.4 15.4	25 25 25 25 -30 -20 -10 0 10	R vs. VOLTAG 818.999992 818.999997 819.00000 819.000008 Freq. ERROF 819.000008 819.000008 819.000008 819.000008 819.000008 818.999991 818.999998 818.999996 818.999991	E (LTE B26 -8 -3 0 8 ×s. Temp. 8 -9 -2 -4 -9	for Part 90S) 2048 2048 2048 2048 2048 2048 2048 2048 2048 2048 2048 2048 2048	
15.4 13.09 11.4 (End Point) 15.4 15.4 15.4 15.4 15.4 15.4 15.4 15.4	25 25 25 25 -30 -20 -10 0 10 20	R vs. VOLTAG 818.999992 818.999997 819.00000 819.000008 Freq. ERROF 819.000008 819.000008 819.000008 819.000008 818.999991 818.999998 818.999991 818.999991 818.999990	E (LTE B26 -8 -3 0 8 Vs. Temp. 8 -9 -2 -4 -9 -10	for Part 90S) 2048 204	



Reference Freq.:	Channel		2310	MHz 10M QPSK CH 27710	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	F	req. ERROR vs	. VOLTAGE		
17.71 25		2309.999993	-7	6488	
15.4	25	2310.000004	4	6488	
13.09	25	2310.000002	2.000002	6488	
11.4 (End Point)	25	2310.000001	0.9999999	6488	
		Freq. ERROR	vs. Temp.		
15.4	-30	2310.000007	7.0000001	6488	
15.4	-20	2309.999993	-7	6488	
15.4	-10	2310.000003	3.0000001	6488	
15.4	0	2309.999991	-9	6488	
15.4	10	2309.999990	-10	6488	
15.4	20	2309.999990	-10	6488	
15.4	30	2309.999998	-2	6488	
15.4	40	2309.999999	-1	6488	
15.4	50	2309.999997	-3	6488	
Reference Freq.: LTE B38 Mid Channel			2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
		req. ERROR vs	. VOLTAGE		
17.71	25	2594.999992	-8	6488	
15.4	25	2595.000006	6.000002	6488	
13.09	25	2594.999998	-2	6488	
11.4 (End Point)	25	2594.999991	-9	6488	
		Freq. ERROR	vs. Temp.		
15.4	-30	2595.000000	0	6488	
15.4	-20	2594.999990	-10	6488	
15.4	-10	2595.000000	0	6488	
15.4	0	2594.999990	-10	6488	
15.4	10	2594.999991	-9	6488	
15.4	20	2595.000006	6.000002	6488	
15.4	30	2594.999993	-7	6488	
	40	2594.999993	-7	6488	
15.4	40	2374.777773	/	0100	



Reference Freq.: LTE B41 Mid Channel			2593	MHz 10M QPSK CH 40620		
Power Supply Vdc			Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		
		Freq. ERROR vs	s. VOLTAGE			
17.71	17.71 25		-9	6488		
15.4	15.4 25		7.0000001	6488		
13.09	25	2593.000002	2.000002	6488		
11.4 (End Point)	25	2592.999997	-3	6488		
		Freq. ERROR	vs. Temp.			
15.4	-30	2592.999994	-6	6488		
15.4	-20	2592.999996	-4	6488		
15.4	-10	2592.999994	-6	6488		
15.4	0	2592.999992	-8	6488		
15.4	10	2593.000001	0.9999999	6488		
15.4	20	2593.000009	8.9999999	6488		
15.4	30	2592.999995	-5	6488		
15.4	40	2593.000004	4	6488		
15.4	50	2593.000001	0.9999999	6488		
Reference Freq.: LTE B66 Mid Channel			1745	MHz 10M QPSK CH 132322		
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		
		Freq. ERROR vs				
17.71	25	1744.999995	-5	6488		
15.4	25	1744.999991	-9			
13.09 25		1/77./////	-9	6488		
13.07	25	1745.000008	-9	6488 6488		
11.4 (End Point)	25 25					
11.4		1745.000008	8 9.0000001	6488		
11.4		1745.000008 1745.000009	8 9.0000001	6488		
11.4 (End Point)	25	1745.000008 1745.000009 Freq. ERROR	8 9.0000001 vs. Temp.	6488 6488		
11.4 (End Point) 15.4	25 -30	1745.000008 1745.000009 Freq. ERROR 1745.000006	8 9.0000001 vs. Temp. 6	6488 6488 6488		
11.4 (End Point) 15.4 15.4	25 -30 -20	1745.000008 1745.000009 Freq. ERROR 1745.000006 1745.000007	8 9.0000001 vs. Temp. 6 7.0000001	6488 6488 6488 6488		
11.4 (End Point) 15.4 15.4 15.4	25 -30 -20 -10	1745.000008 1745.000009 Freq. ERROR 1745.000006 1745.000007 1745.000009	8 9.0000001 vs. Temp. 6 7.0000001 9.0000001	6488 6488 6488 6488 6488 6488		
11.4 (End Point) 15.4 15.4 15.4 15.4 15.4	25 -30 -20 -10 0	1745.000008 1745.000009 Freq. ERROR 1745.000006 1745.000007 1745.000009 1744.999993	8 9.0000001 vs. Temp. 6 7.0000001 9.0000001 -7	6488 6488 6488 6488 6488 6488 6488		
11.4 (End Point) 15.4 15.4 15.4 15.4 15.4 15.4	25 -30 -20 -10 0 10	1745.000008 1745.000009 Freq. ERROR 1745.000006 1745.000007 1745.000009 1744.999993 1745.000007	8 9.0000001 vs. Temp. 6 7.0000001 9.0000001 -7 7.0000001	6488 6488 6488 6488 6488 6488 6488 6488		
11.4 (End Point) 15.4 15.4 15.4 15.4 15.4 15.4 15.4	25 -30 -20 -10 0 10 20	1745.000008 1745.000009 Freq. ERROR 1745.000006 1745.000007 1745.000009 1744.999993 1745.000007 1745.000003	8 9.0000001 vs. Temp. 6 7.0000001 9.0000001 -7 7.0000001 3.0000001	6488 6488 6488 6488 6488 6488 6488 6488		

Note: The battery is rated 15.4V dc.

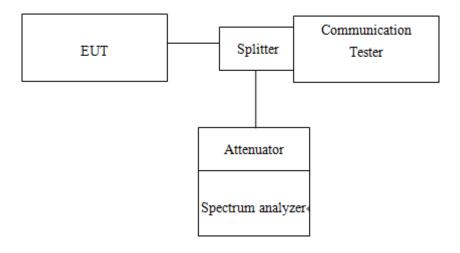


11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. **Measurement Procedure**

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
- Set the number of counts to a value that stabilizes the measured CCDF curve.

Conducted Emission (measured at antenna port) Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19				
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14				
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29				
Attenuator	Marvelous	MVE2213-1 0	RF30	2017/12/26	2018/12/25				
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25				
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25				

11.4. Measurement Equipment Used

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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11.5. **Measurement Result**

Tabular Results:

Freq.		Peak-to-	Peak-to-Average Ratio (dB)					
(MHz)	СН	WCDMA	HSDPA	HSUPA				
1852.4	9262	2.78	2.76	2.75				
1880	9400	2.68	2.70	2.66				
1907.6	9538	2.51	2.50	2.49				

Erog		Peak-to-	Peak-to-Average Ratio (dB)					
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA				
(11112)		IV	IV	IV				
1712.4	1312	3.09	3.09	3.08				
1732.6	1413	3.00	3.95	3.00				
1752.6	1513	3.26	3.07	3.06				

Erog		Peak-to-Average Ratio (dB)					
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA			
		V	V	V			
826.4	4132	3.06	2.98	2.95			
836.6	4183	2.80	2.76	2.84			
846.6	4233	2.85	2.77	2.82			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document of the document of the company. Any unauthorized alteration, forgery or falsification of the content or expenserating of this document at the twice avater of the low.



	LTE BAND 2										
Channel bandwidth: 1.4MHz				Char	nnel band	lwidth: 3N	IHz				
Freq. CH		PAPR	PAPR (dB)		СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	CH	64QAM	Limit				
1850.7	18607	3.95	13	1851.5	18615	5.03	13				
1880.0	18900	4.49	13	1880.0	18900	4.81	13				
1909.3	19193	4.18	13	1908.5	19185	4.62	13				

	LTE BAND 2										
Channel bandwidth: 5MHz				Chan	nel band	width: 10N	ЛНz				
Freq. CH		PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	CH	64QAM	Limit				
1852.5	18625	5.69	13	1855.0	18650	4.96	13				
1880.0	18900	5.33	13	1880.0	18900	4.81	13				
1907.5	19175	5.20	13	1905.0	19150	4.69	13				

	LTE BAND 2										
Chan	nel band	width: 15N	ЛНz	Chan	nel band	width: 20N	ЛНz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1857.5	18675	4.98	13	1860.0	18700	5.16	13				
1880.0	18900	4.62	13	1880.0	18900	6.87	13				
1902.5	19125	4.57	13	1900.0	19100	5.45	13				



	LTE BAND 4										
Channel bandwidth: 1.4MHz				Chan	nel ban	dwidth: 3N	ЛНz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	PAPR (dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1710.7	19957	5.61	13	1711.5	19965	5.77	13				
1732.5	20175	5.42	13	1732.5	20175	5.53	13				
1754.3	20393	5.90	13	1753.5	20385	5.95	13				

	LTE BAND 4										
Channel bandwidth: 5MHz				Chan	nel band	lwidth: 10	MHz				
Freq.	СН	PAPR	PAPR (dB)		СН	PAPR	PAPR (dB)				
(MHz)	Сп	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1712.5	19957	5.93	13	1715.0	20000	5.98	13				
1732.5	20175	5.76	13	1732.5	20175	6.06	13				
1752.5	20375	5.97	13	1750.0	20350	6.02	13				

	LTE BAND 4										
Chanr	nel band	width: 15	MHz	Chan	nel band	lwidth: 20	MHz				
Freq.	СН	PAPR	PAPR (dB)		СН	PAPR	(dB)				
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit				
1717.5	20025	5.60	13	1720.0	20050	5.64	13				
1732.5	20175	5.48	13	1732.5	20175	7.01	13				
1747.5	20325	6.08	13	1745.0	20300	7.02	13				

	LTE BAND 5										
Channel bandwidth: 1.4MHz				Char	nnel band	lwidth: 3N	IHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
824.7	20407	4.15	13	825.5	20415	4.71	13				
836.5	20525	4.20	13	836.5	20525	5.27	13				
848.3	20643	3.56	13	847.5	20635	4.19	13				

	LTE BAND 5										
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz							
Freq.	Freq. CH PAPR (dB) Freq.		сц	PAPR	PAPR (dB)						
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit				
826.5	20425	5.36	13	829.0	20450	5.76	13				
836.5	20525	5.07	13	836.5	20525	5.21	13				
846.5	20625	5.02	13	844.0	20600	5.30	13				



	LTE BAND 7										
Chan	nel ban	dwidth: 5N	ЛНz	Chan	Channel bandwidth: 10MHz						
Freq. CH		PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit				
2502.5	20775	5.18	13	2505.0	20800	5.27	13				
2535.0	21100	5.93	13	2535.0	21100	6.17	13				
2567.5	21375	5.74	13	2565.0	21350	5.71	13				

	LTE BAND 7									
Chani	nel band	width: 15	MHz	Channel bandwidth: 20MHz						
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit			
2507.5	20825	4.98	13	2510	20850	5.30	13			
2535.0	21100	5.48	13	2535	21100	5.65	13			
2562.5	21375	5.42	13	2560	21350	5.62	13			

	LTE BAND 12										
Chan	nel band\	width: 1.4	MHz	Channel bandwidth: 3MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit				
699.7	23017	4.28	13	700.5	23025	4.78	13				
707.5	23095	4.83	13	707.5	23095	5.18	13				
715.3	23173	4.35	13	714.5	23165	4.80	13				

	LTE BAND 12										
Channel bandwidth: 5MHz				Chan	nel band	width: 10N	ЛНz				
Freq.	СН	PAPR	PAPR (dB) Freq. CH PAI				R (dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
701.5	23035	5.35	13	704.0	23060	5.63	13				
707.5	23095	5.48	13	707.5	23095	5.58	13				
713.5	23155	5.34	13	711.0	23130	5.53	13				

	LTE BAND 13											
Chan	nel ban	dwidth: 5N	/Hz	Channel bandwidth: 10MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	Сп	64QAM	Limit	(MHz)	СП	64QAM	Limit					
779.5	23205	6.29	13									
782.0	23230	6.03	13	782.0	23230	8.30	13					
784.5	23255	5.80	13									



LTE BAND 14										
Chan	nel ban	dwidth: 5N	ЛНz	Channel bandwidth: 10MHz						
Freq.	СН	PAPR	(dB)	Freq.	req. CH PAPR (c					
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit			
790.5	23305	4.89	13							
793	23330	4.70	13	793.0	23330	4.68	13			
795.5	23355	4.70	13							

	LTE BAND 17										
Chan	nel band\	width: 1.4	MHz	Char	nnel band	lwidth: 3N	1Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
706.5	23755	5.67	13	709.0	23780	5.95	13				
710.0	23790	5.27	13	710.0	23790	5.53	13				
713.5	23825	5.29	13	711.0	23800	5.49	13				

	LTE BAND 25									
Chanr	nel band	width: 1.4	MHz	Channel bandwidth: 3MHz						
Freq.	СН	PAPR	PAPR (dB) Freq. CH				(dB)			
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit			
1850.7	26047	4.97	13	1851.5	26055	5.28	13			
1882.5	26365	4.65	13	1882.5	26365	5.69	13			
1914.3	26683	4.03	13	1913.5	26675	4.96	13			

	LTE BAND 25										
Chan	nel ban	dwidth: 5N	/Hz	Chan	nel band	lwidth: 10	MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1852.5	26065	5.68	13	1855.0	26090	5.52	13				
1882.5	26365	5.92	13	1882.5	26365	5.69	13				
1912.5	26665	5.38	13	1910.0	26640	5.35	13				

	LTE BAND 25										
Chan	nel band	width: 15	MHz	Chan	Channel bandwidth: 20MHz						
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit				
1857.5	26115	5.10	13	1860.0	26140	5.59	13				
1882.5	26365	5.31	13	1882.5	26365	5.73	13				
1907.5	26615	5.32	13	1905.0	26590	5.75	13				



	LTE BAND 26									
Chan	nel band\	width: 1.4	MHz	Channel bandwidth: 3MHz						
Freq.	СН	PAPR	(dB)	Freq.	сц	PAPR	(dB)			
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit			
814.7	26697	3.95	13	815.5	26705	4.59	13			
831.5	26865	3.91	13	831.5	26865	4.37	13			
848.3	27033	3.19	13	847.5	27025	3.86	13			

	LTE BAND 26										
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	Сп	64QAM	Limit				
816.5	26715	5.18	13	820.0	26750	5.50	13				
831.5	26865	4.83	13	831.5	26865	4.86	13				
846.5	27015	4.77	13	844.0	26990	5.03	13				

LTE BAND 26									
Chan	nel band	width: 15N	ЛНz						
Freq.	Freq. CH PAPR (dB)								
(MHz)	СП	64QAM	Limit						
822.5	26775	4.92	13						
831.5	26865	4.60	13						
841.5	26965	4.86	13						

	LTE BAND 26 for part 90S											
Chanr	nel band	width: 1.4	MHz	Channel bandwidth: 3MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	CH	64QAM	Limit	(MHz)	СП	64QAM	Limit					
814.7	26697	4.68	13	815.5	26705	5.19	13					
819.0	26740	3.95	13	819	26740	4.39	13					
823.3	26783	3.70	13	822.5	26775	4.04	13					

		LTE B	SAND 26	5 for part	90S		
Chan	nel ban	dwidth: 5N	ЛНz	Channel bandwidth: 10MHz			
Freq. CH		PAPR	(dB)	Freq.	сц	PAPR	(dB)
(MHz)	Сп	64QAM	Limit	(MHz)	СН	64QAM	Limit
816.5	26715	5.26	13				
819.0	26740	4.86	13	819.0	26740	4.78	13
821.5	26765	4.54	13				



			LTE BA	AND 30				
Char	nnel band	lwidth: 5N	IHz	Channel bandwidth: 10MHz				
Freq. CH		PAPR	(dB)	Freq. PAPF		PAPR	(dB)	
(MHz)	СП	64QAM	Limit	(MHz)	· CH <u>/</u>)	64QAM	Limit	
2307.5	27685	6.27	13					
2310.0	27710	6.32	13	2310.0	27710	6.04	13	
2312.5	27735	6.27	13					

	LTE BAND 38											
Char	nnel band	lwidth: 5N	IHz	Chan	nel band	width: 10N	ЛНz					
Freq. CH	СЦ	PAPR	(dB)	Freq.	СН	PAPR	PAPR (dB)					
(MHz)	(MHz)	64QAM	Limit	(MHz)	СП	64QAM	Limit					
2572.5	37775	8.82	13	2575	37800	9.59	13					
2595.0	38000	11.79	13	2595	38000	10.95	13					
2617.5	38225	8.57	13	2615	38200	11.63	13					

	LTE BAND 38											
Chan	nel band	width: 15N	ЛНz	Chan	nel band	width: 20N	ЛНz					
Freq. CH		PAPR	(dB)	Freq. CH PAPE		PAPR	(dB)					
(MHz)	Hz)	64QAM	Limit	(MHz)	СП	64QAM	Limit					
2577.5	37825	10.26	13	2580.0	37850	7.78	13					
2595.0	38000	10.16	13	2595.0	38000	10.25	13					
2612.5	38175	11.10	13	2610.0	38150	9.82	13					

	LTE BAND 41											
Chan	nel bano	dwidth: 5N	/Hz	Chan	nel band	lwidth: 10	MHz					
Freq. CH		PAPR (dB)		Freq.	СН	PAPR	(dB)					
(MHz)	IHz)	64QAM	Limit	(MHz)	СП	64QAM	Limit					
2498.5	39675	7.14	13	2501.0	39700	10.70	13					
2593.0	40620	7.91	13	2593.0	40620	9.24	13					
2687.5	41565	10.44	13	2685.0	41540	10.08	13					

	LTE BAND 41											
Chan	nel band	width: 15	MHz	Chan	nel band	lwidth: 20	MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)						
(MHz)	Сп	64QAM	Limit	(MHz)	Сп	64QAM	Limit					
2503.5	39725	9.79	13	2506.0	39750	8.40	13					
2593.0	40620	9.68	13	2593.0	40620	11.03	13					
2682.5	41515	11.83	13	2680.0	41490	10.18	13					



	LTE BAND 66											
Chan	nel band\	width: 1.4	MHz	Char	nnel band	lwidth: 3N	IHz					
Freq.		Peak-	to-	Freq.	СН	Peak-	to-					
(MHz)	MHz) CH	64QAM	Limit	(MHz)	СП	64QAM	Limit					
1710.7	131979	5.09	13	1711.5	131987	4.91	13					
1745.0	132322	5.36	13	1745.0	132322	4.61	13					
1779.3	132665	5.33	13	1778.5	132657	4.68	13					

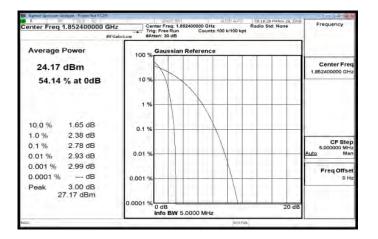
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Char	nnel band	lwidth: 5N	IHz	Chan	nel band	width: 10N	ЛНz					
Freq.		Peak-	Peak-to-		СН	Peak	Peak-to-					
(MHz)	(MHz) CH	64QAM	Limit	(MHz)	CIT	64QAM	Limit					
1712.5	131997	5.26	13	1715.0	132022	5.24	13					
1745.0	132322	5.01	13	1745.0	132322	5.18	13					
1777.5	132647	4.98	13	1775.0	132622	5.16	13					

	LTE BAND 66											
Chan	nel band	width: 15N	ЛНz	Chan	nel band	width: 20N	ЛНz					
Freq.		Peak-	Peak-to-		СН	Peak-to-						
(MHz)	(MHz) CH	64QAM	Limit	(MHz)	Сп	64QAM	Limit					
1717.5	132047	5.02	13	1720.0	132072	4.99	13					
1745.0	132322	5.29	13	1745.0	132322	5.11	13					
1772.5	132597	5.29	13	1770.0	132572	5.13	13					

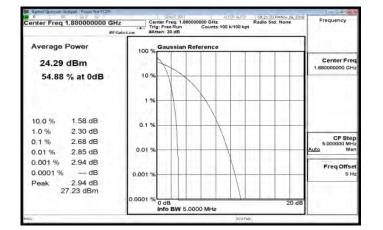
Please refer to next page for test plots.



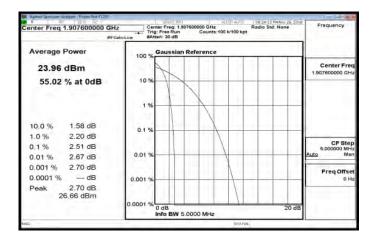
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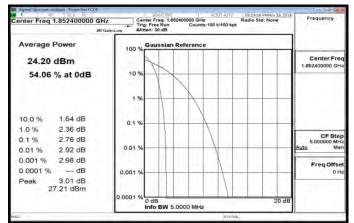
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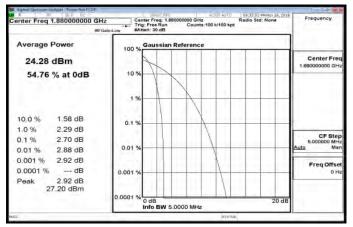
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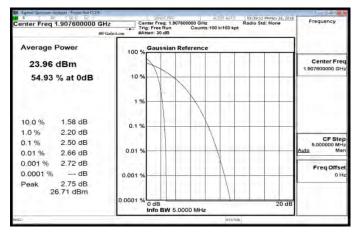
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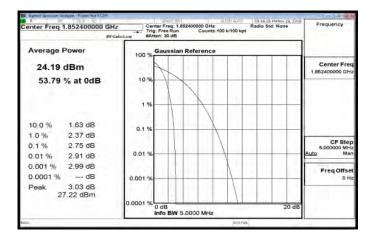
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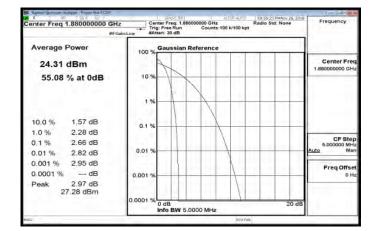
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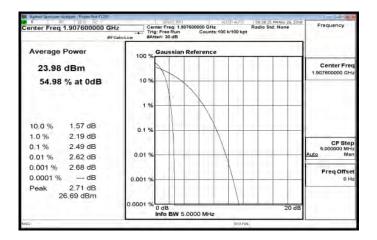
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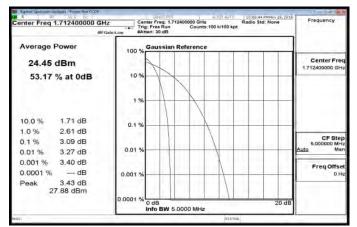
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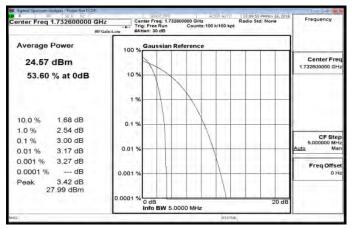
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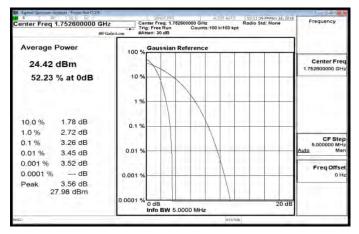
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WCDMA B4 MidCH1413-1732.6



WCDMA B4 HighCH1513-1752.6



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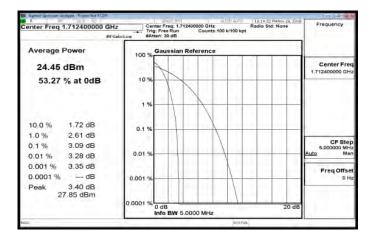
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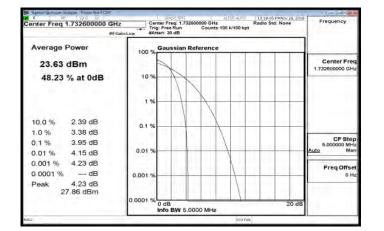
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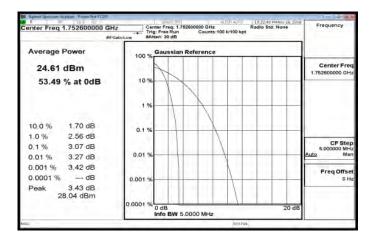
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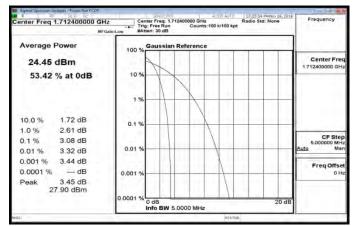
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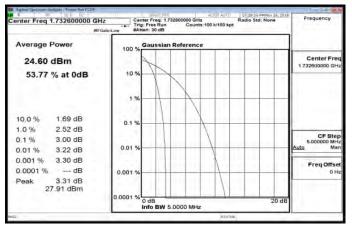
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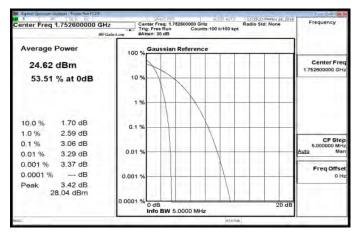
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HSUPA B4 MidCH1413-1732.6



HSUPA B4 HighCH1513-1752.6



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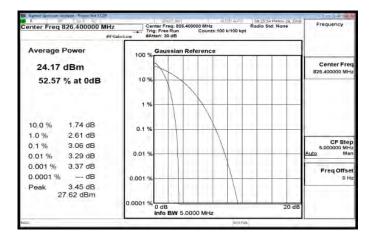
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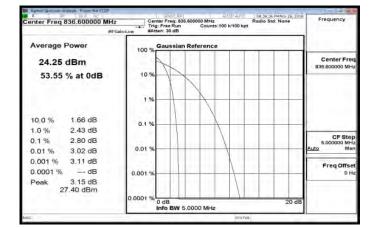
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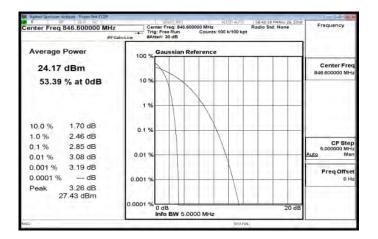
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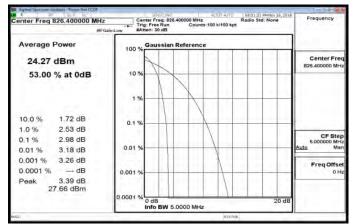
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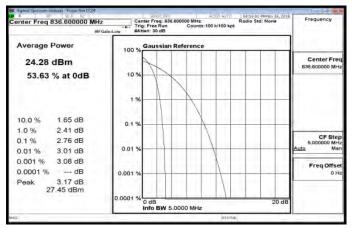
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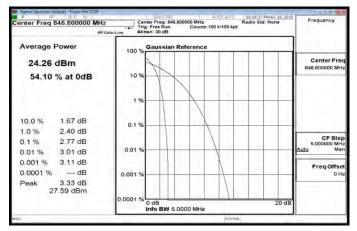
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HSDPA B5 MidCH4183-836.6



HSDPA B5 HighCH4233-846.6



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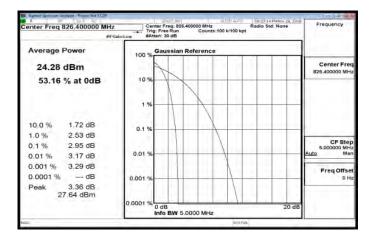
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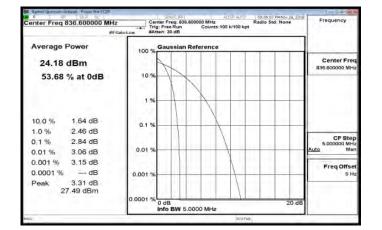
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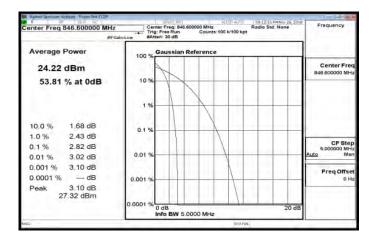
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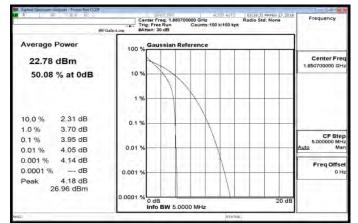
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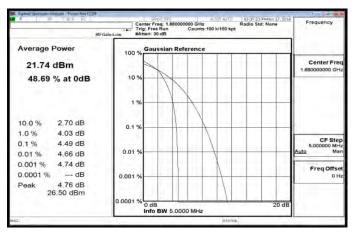
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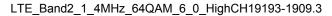


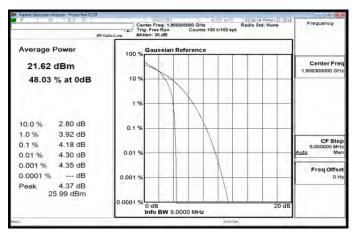
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LTE Band2 1 4MHz 64QAM 6 0 MidCH18900-1880







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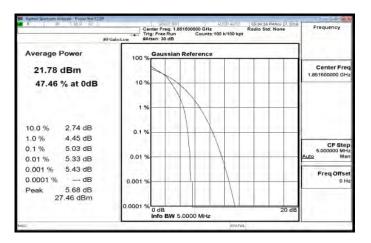
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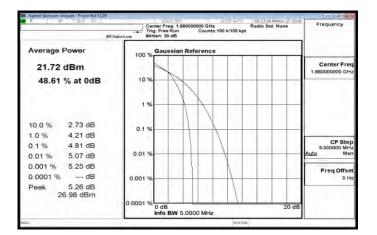
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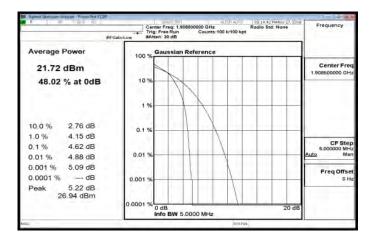
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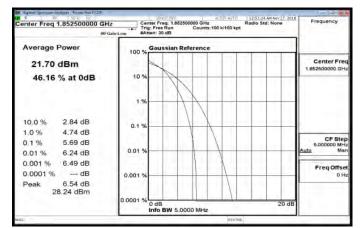


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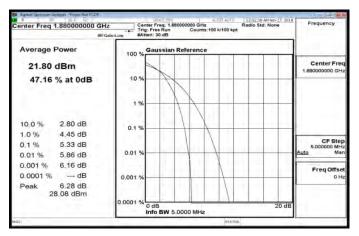
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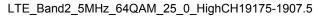


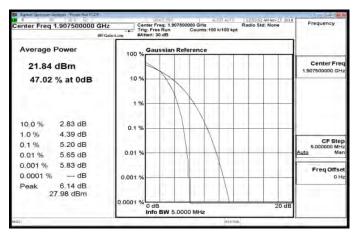


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LTE_Band2_5MHz_64QAM_25_0_MidCH18900-1880







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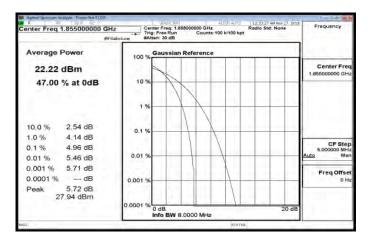
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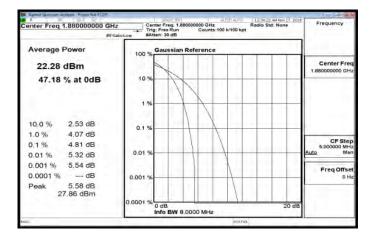
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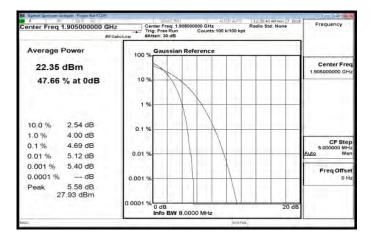
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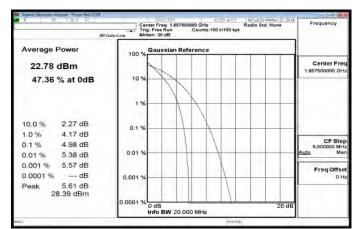


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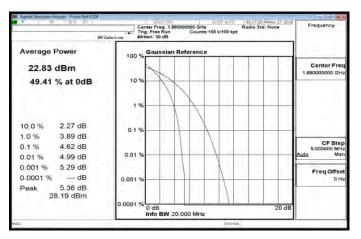
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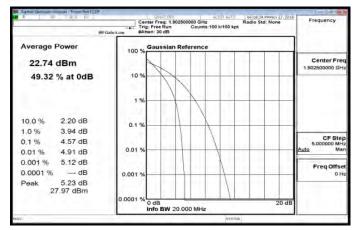




LTE_Band2_15MHz_64QAM_75_0_LowCH18675-1857.5

LTE_Band2_15MHz_64QAM_75_0_MidCH18900-1880





LTE_Band2_15MHz_64QAM_75_0_HighCH19125-1902.5

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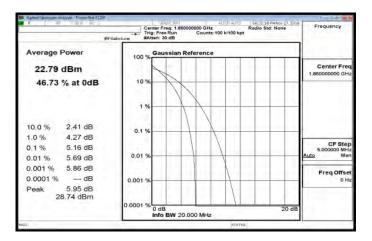
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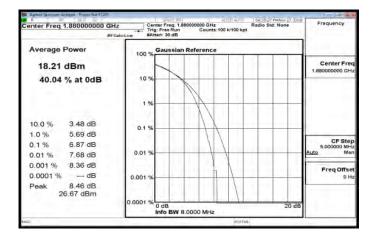
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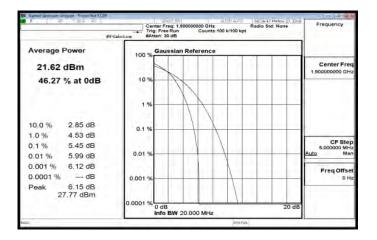
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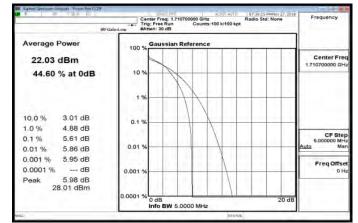


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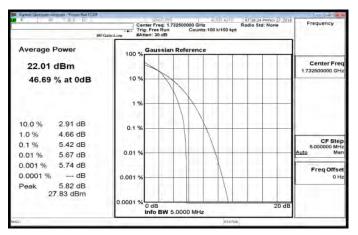
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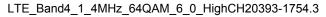


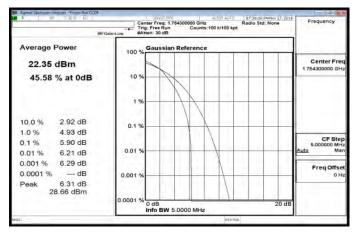


LTE_Band4_1_4MHz_64QAM_6_0_LowCH19957-1710.7

LTE_Band4_1_4MHz_64QAM_6_0_MidCH20175-1732.5







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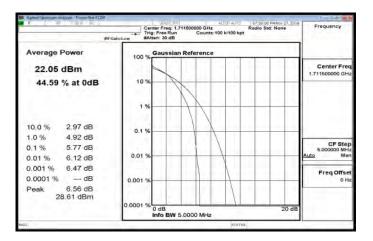
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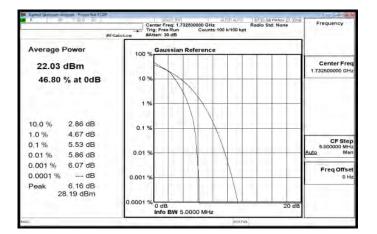
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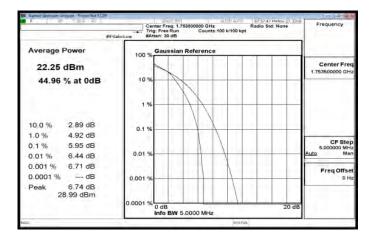
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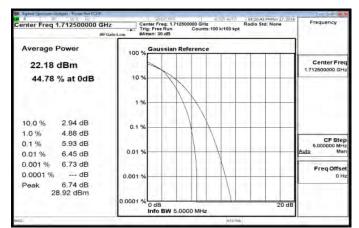


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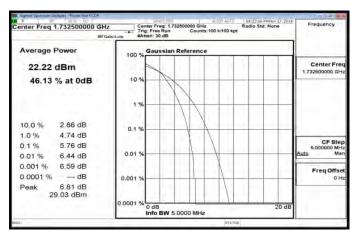
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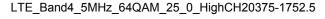


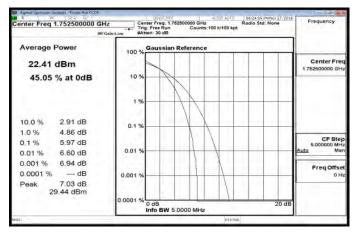


LTE_Band4_5MHz_64QAM_25_0_LowCH19975-1712.5

LTE_Band4_5MHz_64QAM_25_0_MidCH20175-1732.5







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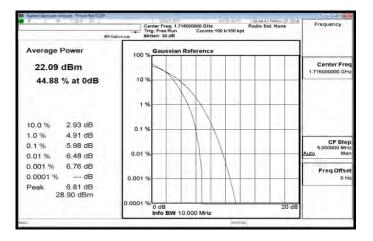
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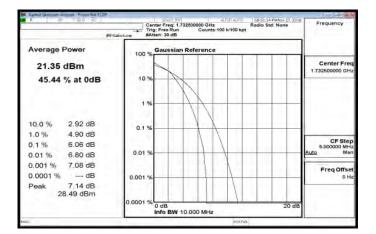
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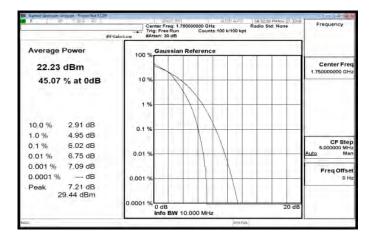
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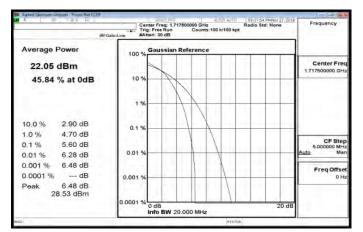
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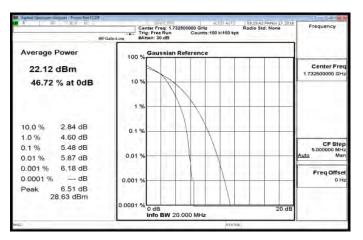
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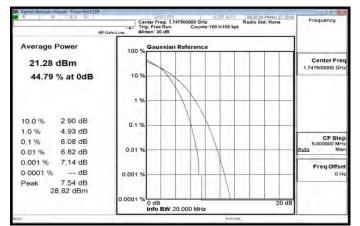


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LTE Band4 15MHz 64QAM 75 0 MidCH20175-1732.5





LTE_Band4_15MHz_64QAM_75_0_HighCH20325-1747.5

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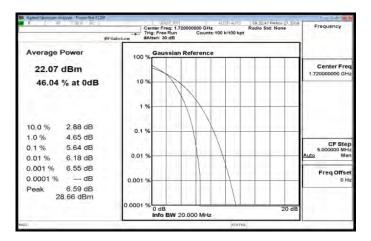
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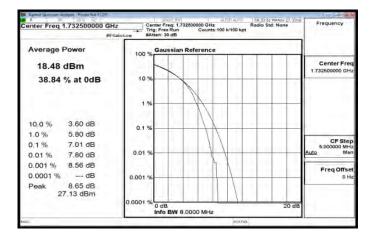
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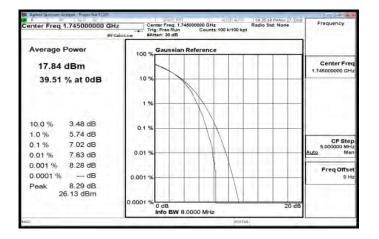
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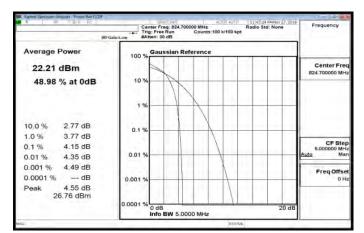


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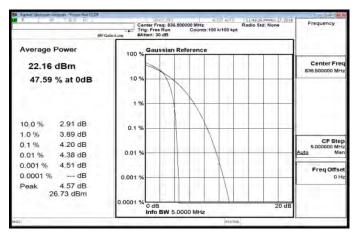
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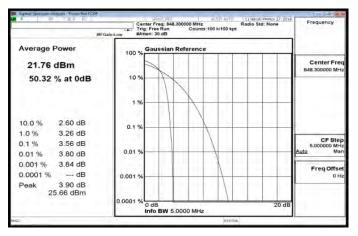


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LTE_Band5_1_4MHz_64QAM_6_0_MidCH20525-836.5







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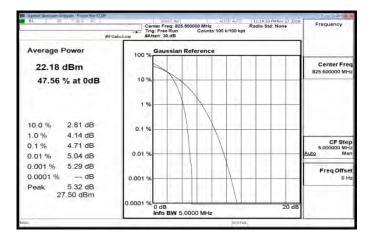
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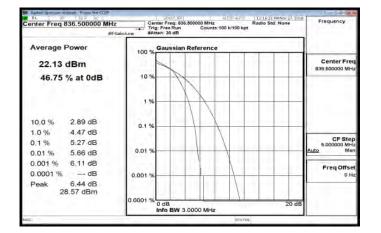
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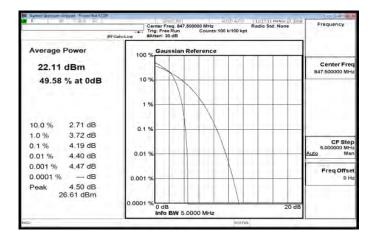
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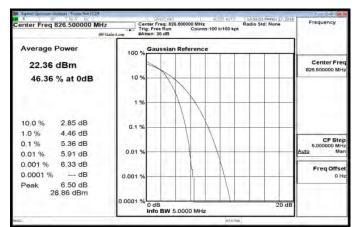


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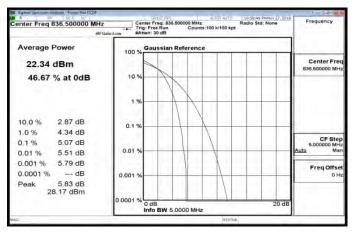
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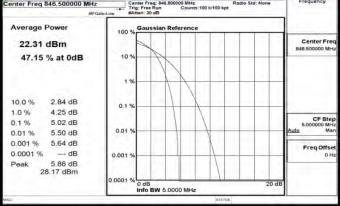
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LTE_Band5_5MHz_64QAM_25_0_MidCH20525-836.5





LTE Band5 5MHz 64QAM 25 0 HighCH20625-846.5



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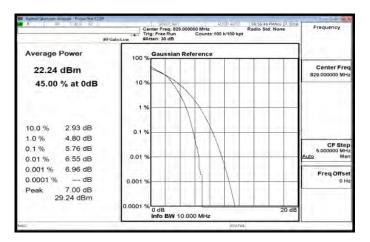
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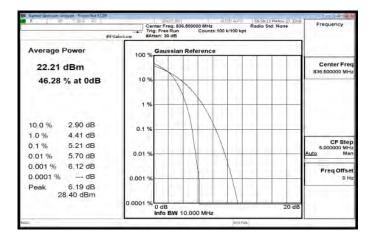
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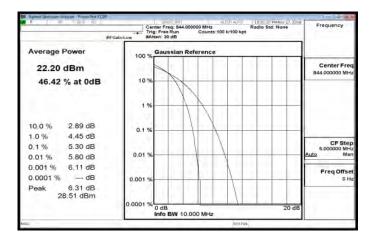
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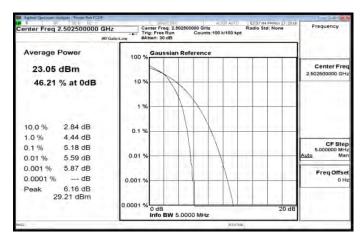


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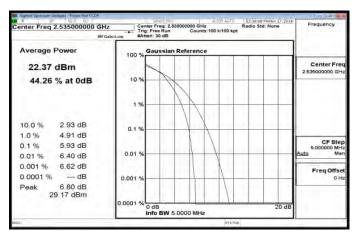
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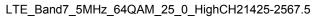


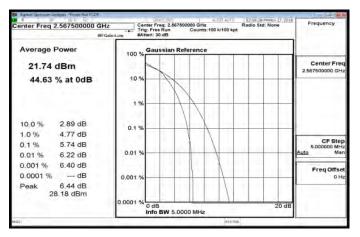


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LTE_Band7_5MHz_64QAM_25_0_MidCH21100-2535







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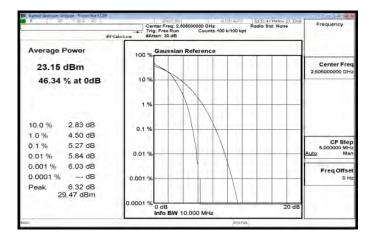
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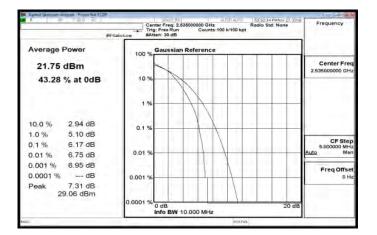
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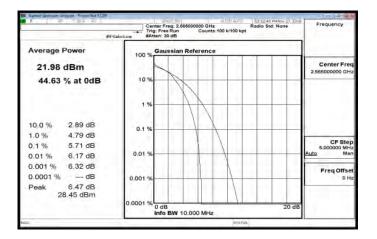
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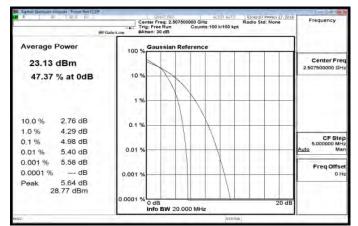


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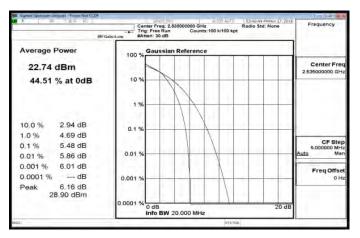
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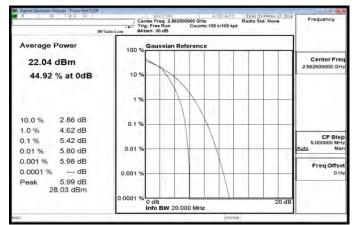




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LTE_Band7_15MHz_64QAM_75_0_MidCH21100-2535





LTE_Band7_15MHz_64QAM_75_0_HighCH21375-2562.5

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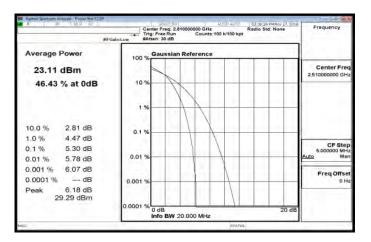
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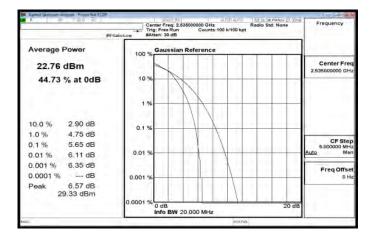
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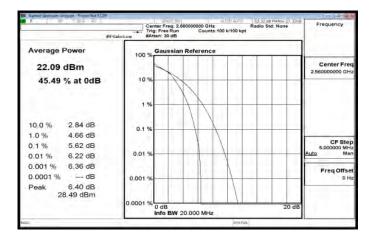
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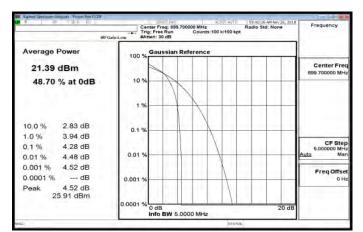


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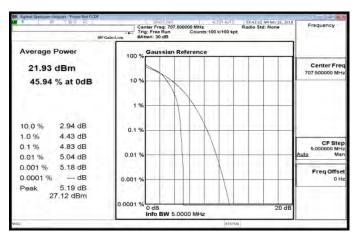
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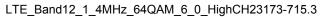


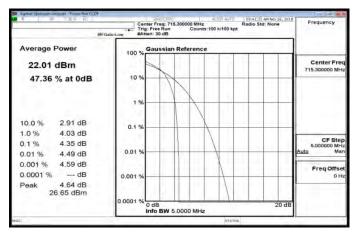


LTE_Band12_1_4MHz_64QAM_6_0_LowCH23017-699.7

LTE_Band12_1_4MHz_64QAM_6_0_MidCH23095-707.5







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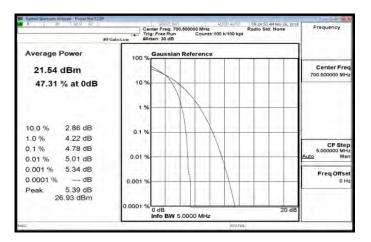
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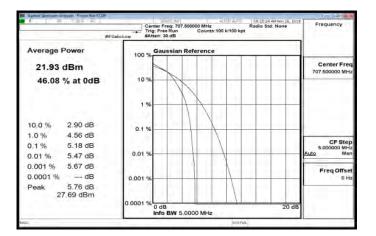
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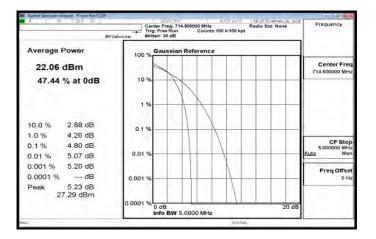
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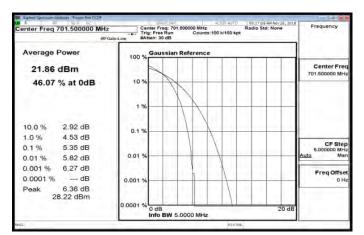


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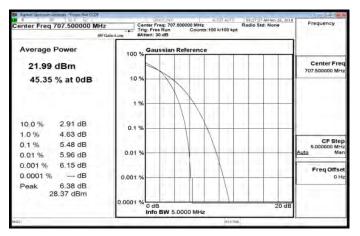
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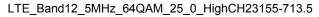


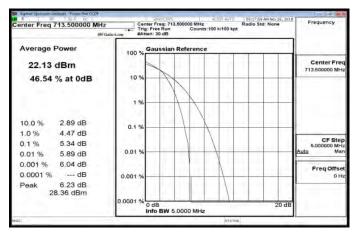


LTE_Band12_5MHz_64QAM_25_0_LowCH23035-701.5

LTE_Band12_5MHz_64QAM_25_0_MidCH23095-707.5







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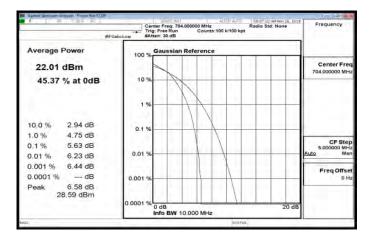
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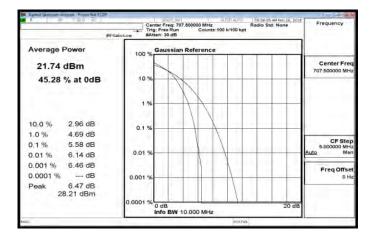
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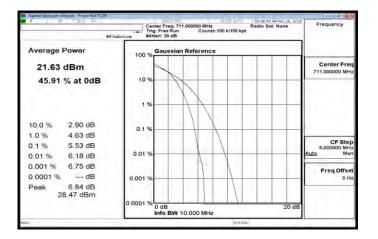
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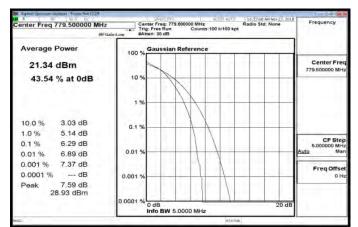


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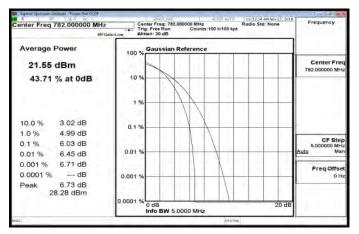
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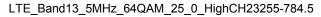


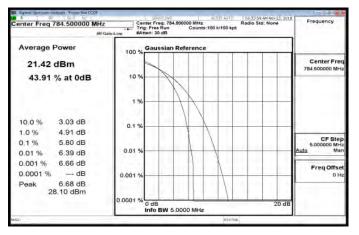


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LTE_Band13_5MHz_64QAM_25_0_MidCH23230-782







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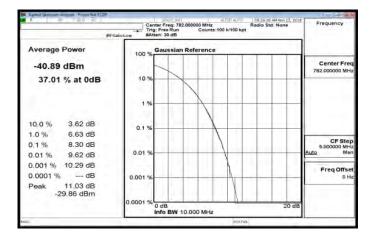
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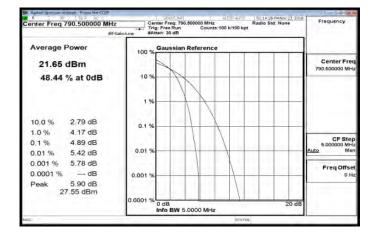
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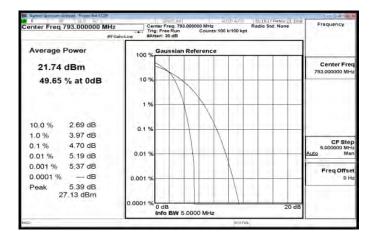
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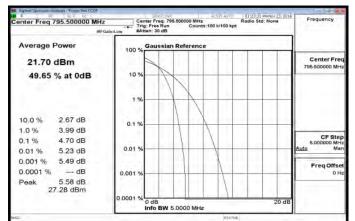


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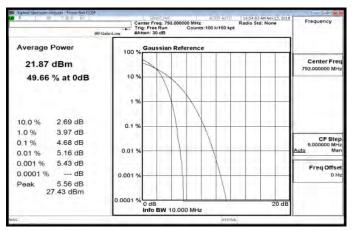
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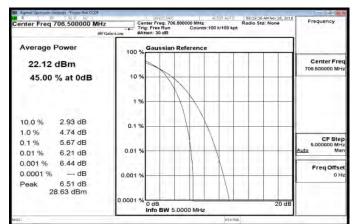




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LTE_Band14_10MHz_64QAM_50_0_MidCH23330





LTE_Band17_5MHz_64QAM_25_0_LowCH23755-706.5

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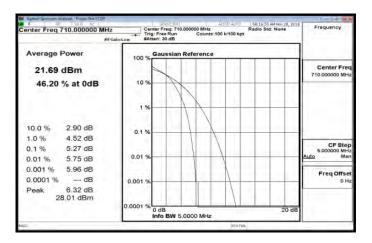
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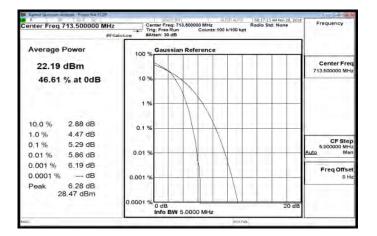
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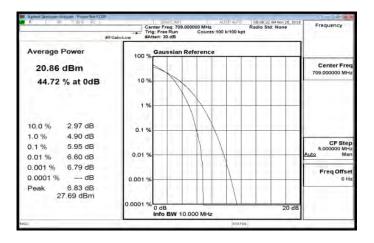
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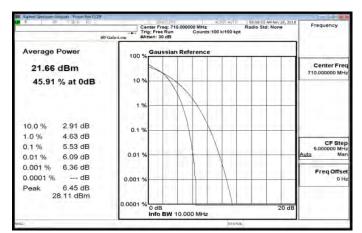


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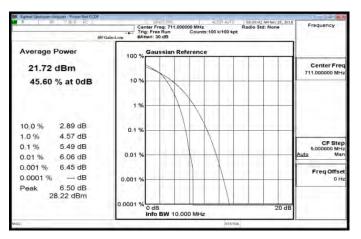
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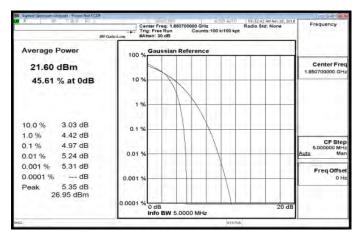


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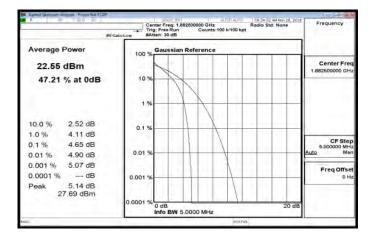
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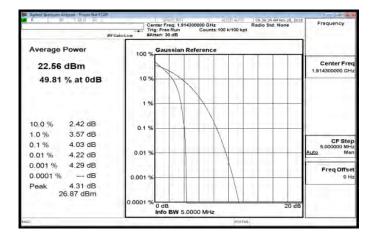
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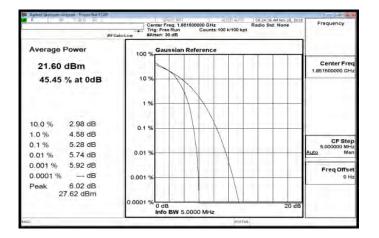
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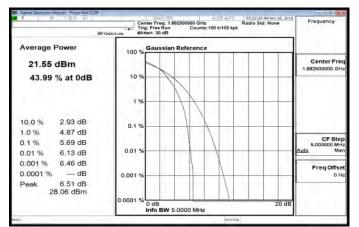
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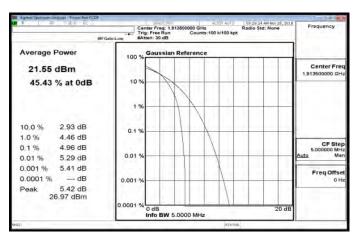
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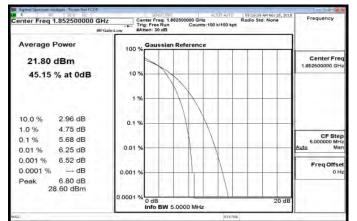


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LTE Band25 3MHz 64QAM 15 0 HighCH26675-1913.5





LTE_Band25_5MHz_64QAM_25_0_LowCH26065-1852.5

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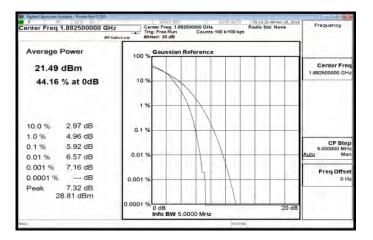
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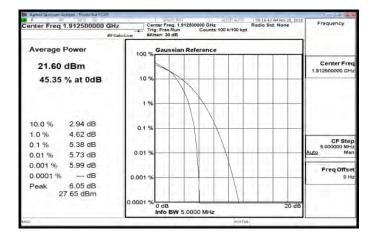
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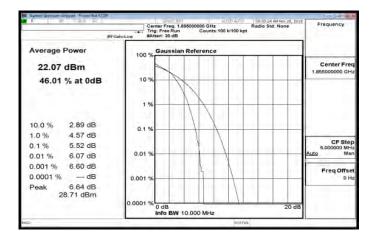
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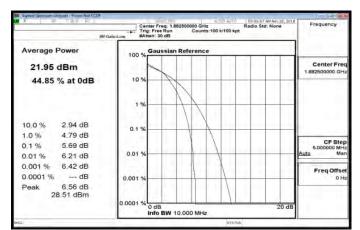


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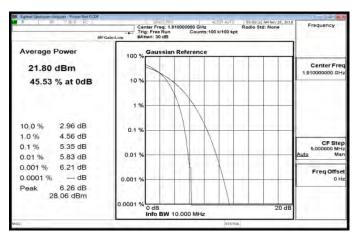
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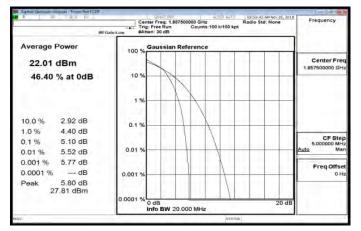




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LTE_Band25_10MHz_64QAM_50_0_HighCH26640-1910





LTE_Band25_15MHz_64QAM_75_0_LowCH26115-1857.5

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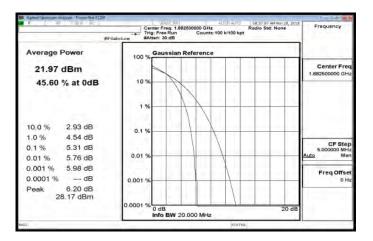
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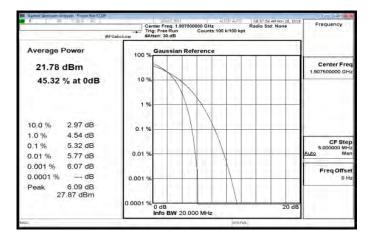
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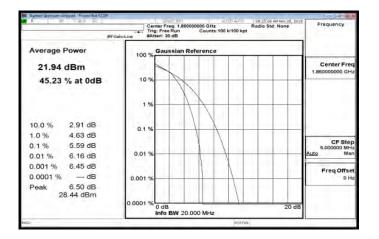
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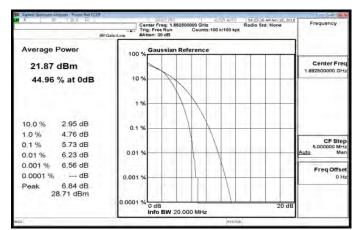


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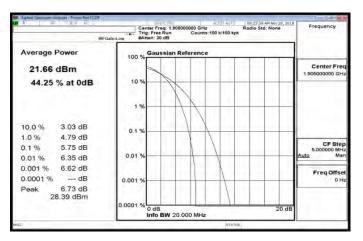
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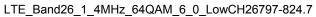


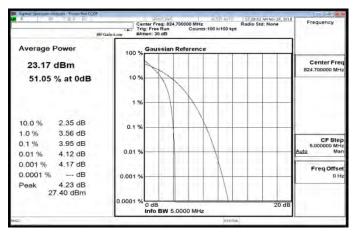


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LTE Band25 20MHz 64QAM 100 0 HighCH26590-1905







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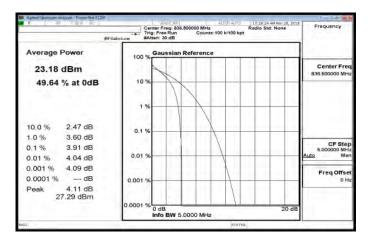
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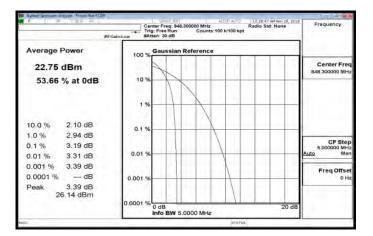
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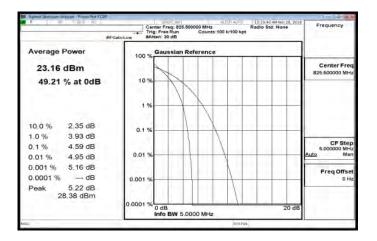
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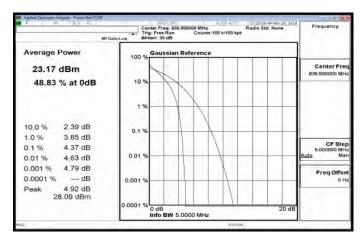


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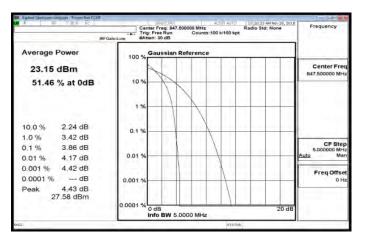
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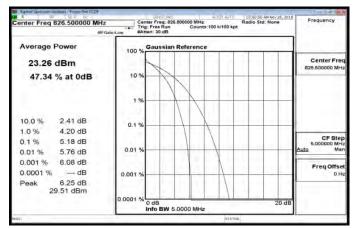




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LTE_Band26_5MHz_64QAM_25_0_LowCH26815-826.5

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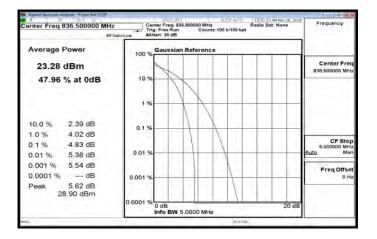
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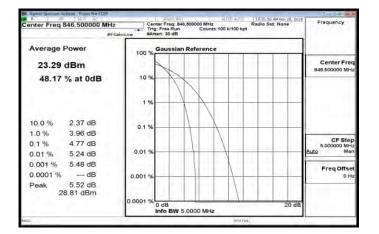
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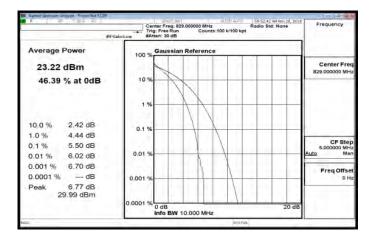
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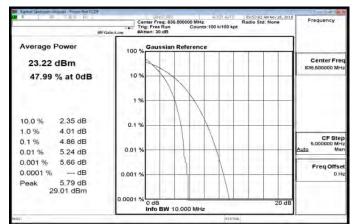


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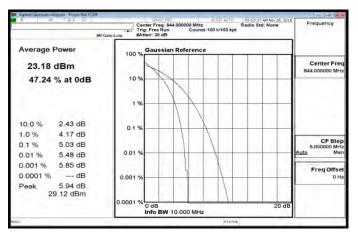
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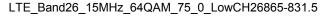


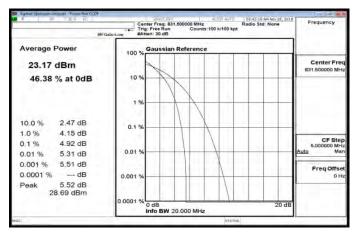


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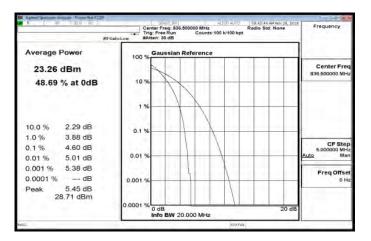
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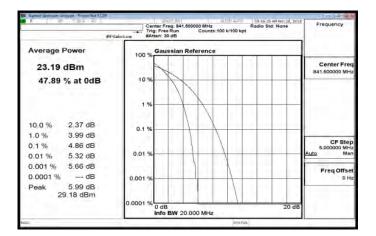
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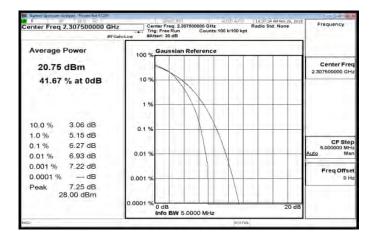
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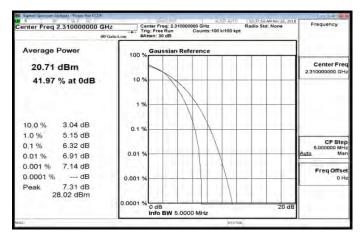


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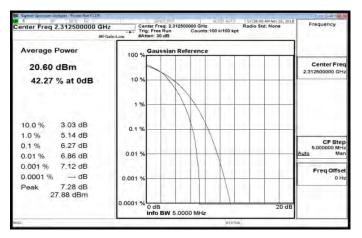
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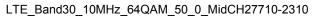


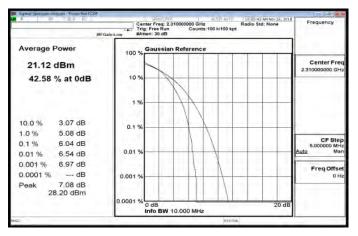


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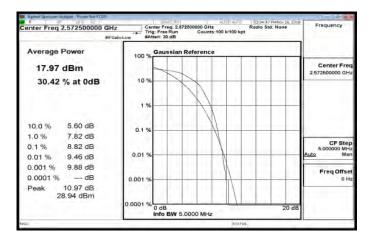
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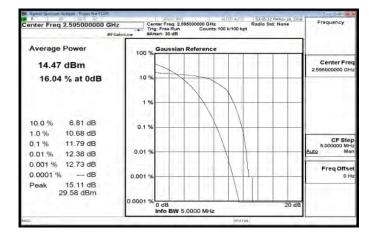
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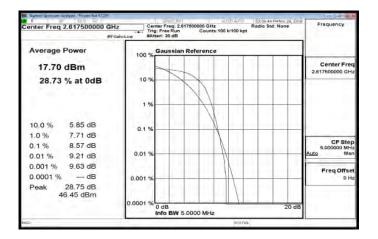
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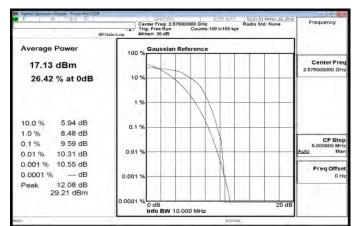


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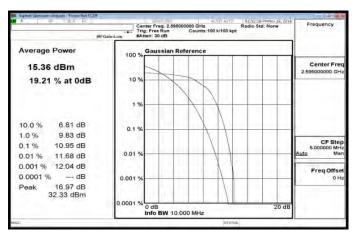
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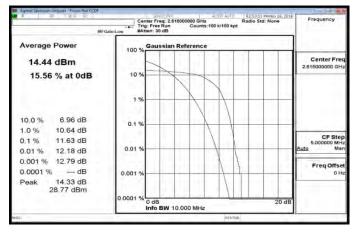




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LTE_Band38_10MHz_64QAM_50_0_MidCH38000-2595





LTE_Band38_10MHz_64QAM_50_0_HighCH38200-2615

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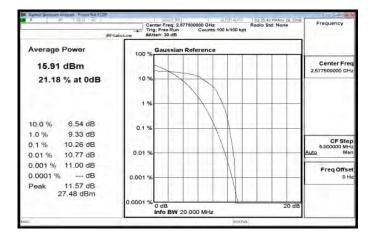
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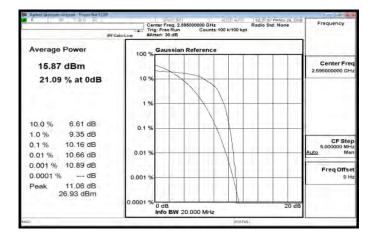
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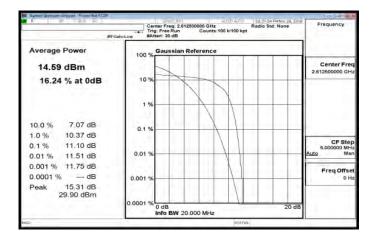
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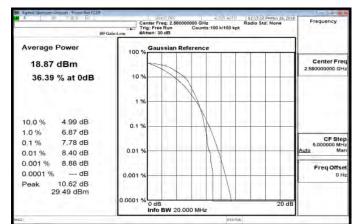


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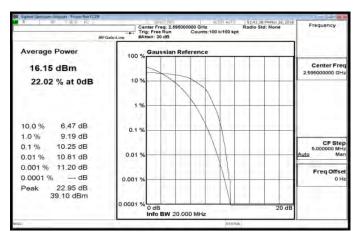
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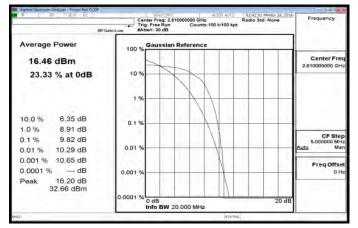




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LTE_Band38_20MHz_64QAM_100_0_HighCH38150-2610

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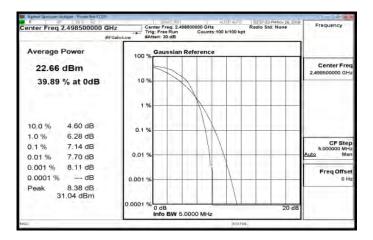
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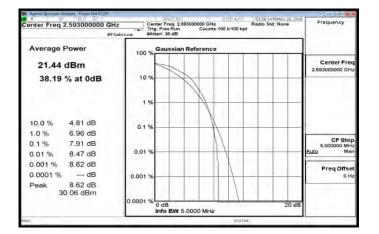
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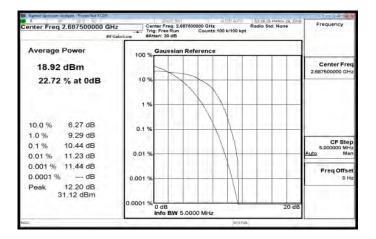
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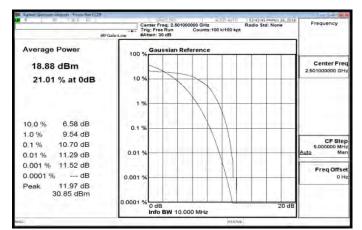


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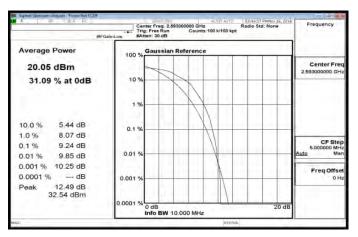
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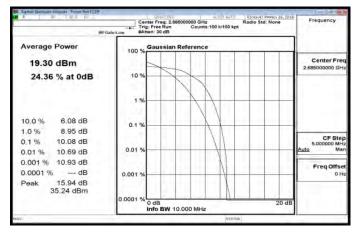




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LTE_Band41_10MHz_64QAM_50_0_MidCH40620-2593





LTE_Band41_10MHz_64QAM_50_0_HighCH41540-2685

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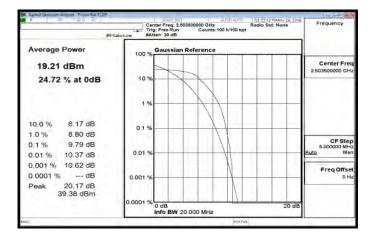
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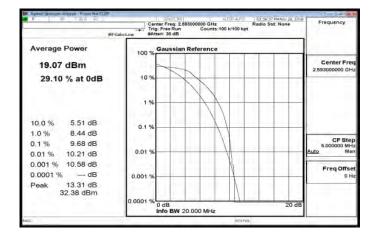
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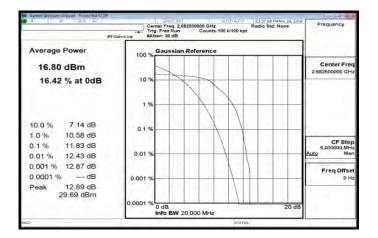
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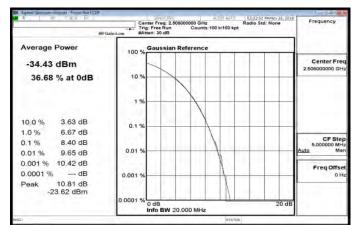


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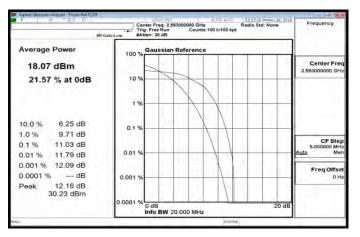
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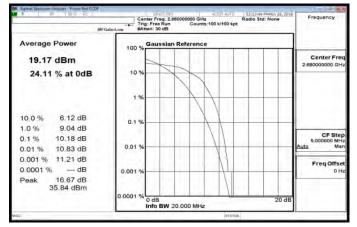




LTE_Band41_20MHz_64QAM_100_0_LowCH39750-2506

LTE Band41 20MHz 64QAM 100 0 MidCH40620-2593





LTE_Band41_20MHz_64QAM_100_0_HighCH41490-2680

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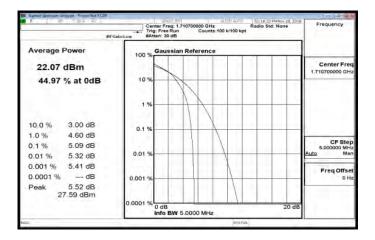
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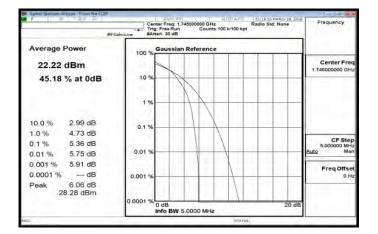
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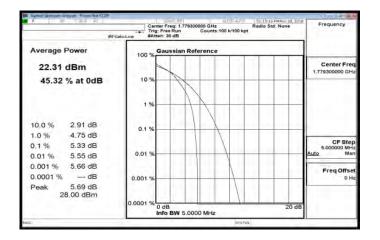
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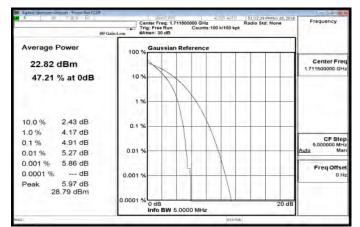


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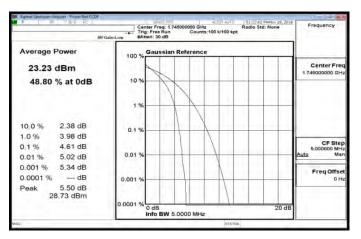
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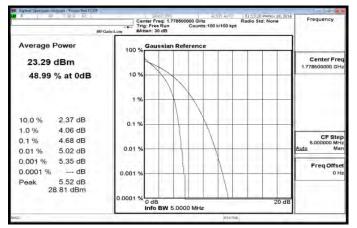




LTE_Band66_3MHz_64QAM_15_0_LowCH131987-1711.5

LTE_Band66_3MHz_64QAM_15_0_MidCH132322-1745





LTE_Band66_3MHz_64QAM_15_0_HighCH132657-1778.5

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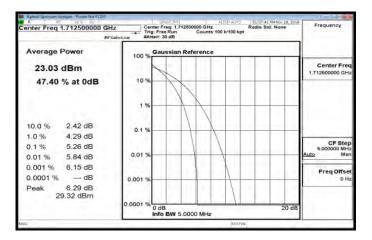
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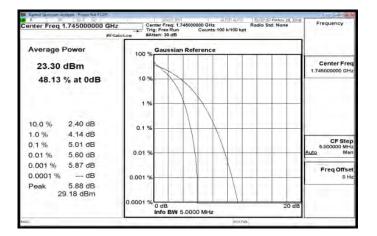
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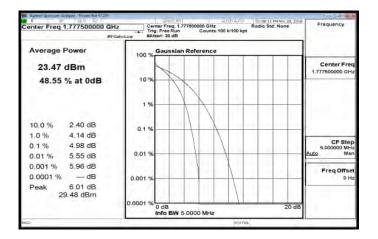
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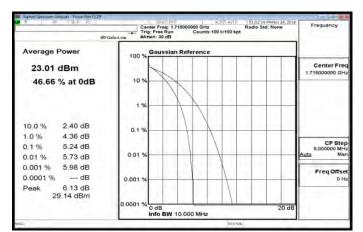


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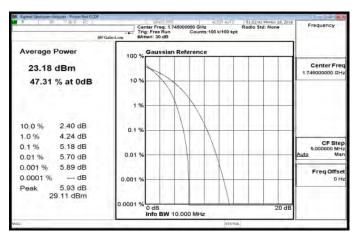
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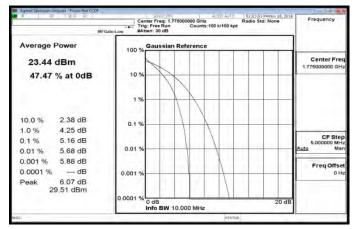




LTE_Band66_10MHz_64QAM_50_0_LowCH132022-1715

LTE_Band66_10MHz_64QAM_50_0_MidCH132322-1745





LTE_Band66_10MHz_64QAM_50_0_HighCH132622-1775

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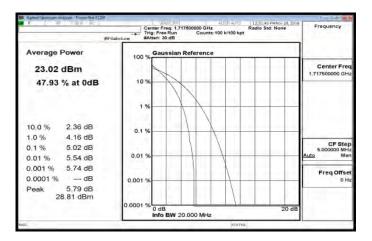
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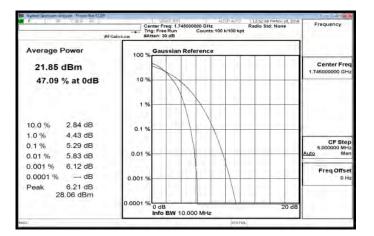
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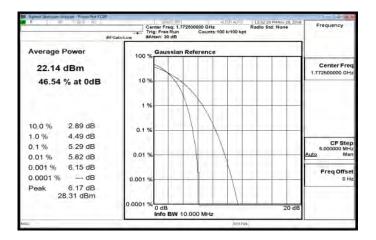
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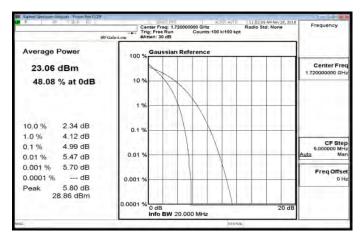


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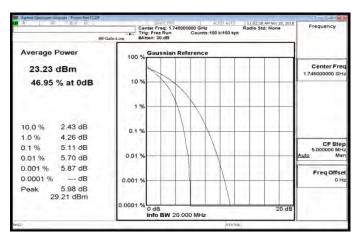
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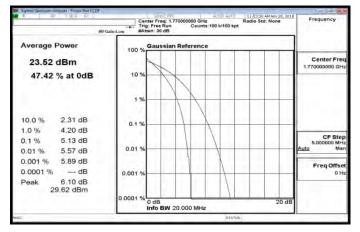




LTE_Band66_20MHz_64QAM_100_0_LowCH132072-1720

LTE_Band66_20MHz_64QAM_100_0_MidCH132322-1745





LTE_Band66_20MHz_64QAM_100_0_HighCH132572-1770

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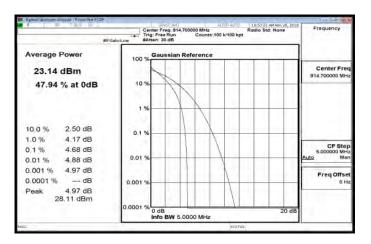
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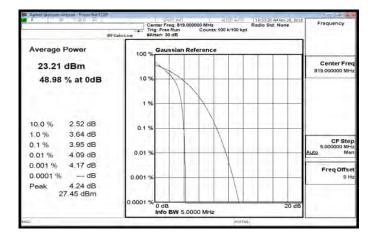
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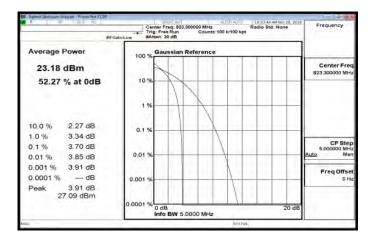
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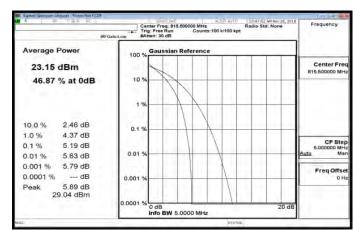


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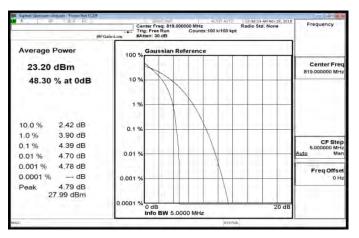
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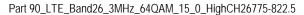


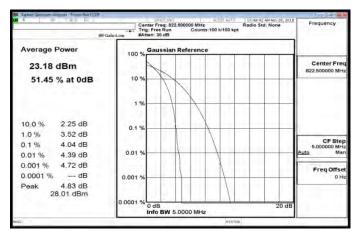


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Part 90_LTE_Band26_3MHz_64QAM_15_0_MidCH26740-819







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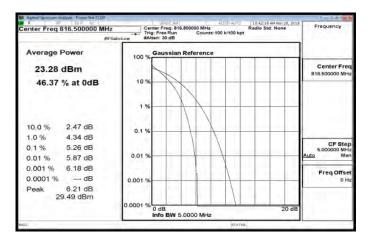
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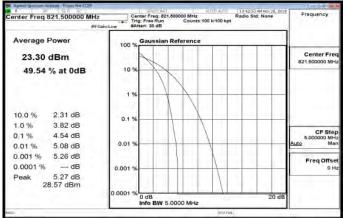
Part 90_LTE_Band26_5MHz_64QAM_25_0_LowCH26715-816.5



Part 90_LTE_Band26_5MHz_64QAM_25_0_MidCH26740-819

R 50 J Mc Center Freq 819.000000 MHz MFGain	Center Freq. 819.000000 MHz Center Freq. 819.000000 MHz Catter Freq. 819.000000 MHz Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
23.32 dBm		Center Free 819.000000 MHz
47.74 % at 0dB	10 %	
	1 %	
10.0 % 2.39 dB	0.1 %	
1.0 % 4.03 dB 0.1 % 4.86 dB		CF Step 5.000000 MH
0.01 % 5.35 dB	0.01 %	Auto Mar
0.001 % 5.58 dB 0.0001 % dB	0.001 %	Freq Offse 0 Hz
Peak 5.59 dB 28.91 dBm		
	0.0001 % 0 dB 20 dB	

Part 90_LTE_Band26_5MHz_64QAM_25_0_HighCH26765-



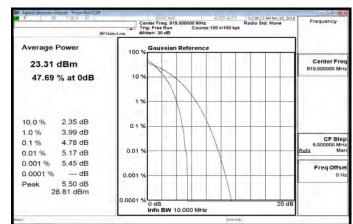
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-821.5			
Frequency			
Center Freq 821.500000 MHz			



Part 90_LTE_Band26_10MHz_64QAM_50_0_MidCH26740-819

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~ End of Report ~

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