

Agilent Spectrum Analyzer - Swept SA				C. Louis and	
RL RF 50Ω A Center Freq 15.000000	DOOD GHZ PNO: Fast Trig: Fi		#Avg Type: RMS	01:15:13 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div <b>Ref -20.00 dB</b>	IFGain:High #Atten:	0 dB	Mkr	1 18.899 47 GHz -83.095 dBm	Auto Tune
30,0					Center Freq 15.000000000 GHz
40.0 50.0					Start Fred 10.000000000 GHz
60,0 					Stop Freq 20.000000000 GHz
80.0				1RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100					Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MH	2	Sween	Stop 20.000 GHz :6.67 ms (40000 pts)	
	#VEVV 3.0 WIT	2	Sweep		

# LTE B2\_1.4 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA			Total and the second	- 6 ×
M RL RF 50 Ω AC Center Freq 15.0000000		#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 dBn	IFGain:High #Atten: 0 dB	16	1 18.915 72 GHz -82.984 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
60,0 				Stop Freq 20.000000000 GHz
80.0 90.0			1 FMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep	Stop 20.000 GHz 26.67 ms (40000 pts)	
ASG		STAT		

# LTE B2\_1.4 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA			and the state of	- d ×
RL RF 50 Ω AC Center Freq 15.0000000	PNO: Fast Trig: Free Run	#Avg Type: RMS	01:19:24 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WANNY DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBr	IFGain:High #Atten: 0 dB	Mkr1	18.922 22 GHz -83.183 dBm	Auto Tune
				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
60.0 				Stop Freq 20.000000000 GHz
-80.0 			1FMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
	#0000 3.0 10112	Sweep 20		

#### LTE B2\_3 M\_CSE(10 G-20 G)\_Lowest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- d ×
₩ RL RF 50Ω A Center Freq 15.000000		#Avg Type: RMS	01:22:36 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref -20.00 dB/	IFGain:High #Atten: 0 dB	Mkr1	18.923 72 GHz -83.045 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
.60,0				Stop Freq 20.000000000 GHz
80.0			1 FIMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
MSG		STATU		

#### LTE B2\_3 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				
₩ RL RF 50Ω AC Center Freq 15.0000000	PNO: Fast Trig: Free Run	ALIGN AUTO #Avg Type: RMS	01:24:41 PM May 09, 2024 TRACE 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBn	IFGain:High #Atten: 0 dB	Mkr1	18.888 72 GHz -82.920 dBm	Auto Tune
-30,0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
.60.0				Stop Freq 20.000000000 GHz
80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
		Sweep Zo		

# LTE B2\_3 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA			to the second second	- 6 ×
RL RF 50 Ω AC Center Freq 15.000000	PNO: Fast +++ Trig: Free Run	#Avg Type: RMS	01:26:47 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WANNY DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBr	IFGain:High #Atten: 0 dB	Mkr1	18.908 22 GHz -82.834 dBm	Auto Tune
-30,0				Center Freq 15.000000000 GHz
50.0				Start Freq 10.000000000 GHz
60,0 70.0				Stop Freq 20.000000000 GHz
80.0			1 RMS	CF Step 1.000000000 GHz Auto Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Swean 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
		Sweep 20		

#### LTE B2\_5 M\_CSE(10 G-20 G)\_Lowest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- d ×
Center Freq 15.00000000	PNO: Fast Trig: Free Run	#Avg Type: RMS	01:29:16 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WANNAM DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBm	IFGain:High #Atten: 0 dB	Mkr1	18.908 97 GHz -82.949 dBm	Auto Tune
-30,0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
-60,0				Stop Freq 20.000000000 GHz
-80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 5.67 ms (40000 pts)	
MSG	#VBW 5.0 WHZ	Sweep 20		

#### LTE B2\_5 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA		and the second second	Section Contenant	- 6 ×
x RL RF 50Ω A Center Freq 15.000000		ALIGN AUTO #Avg Type: RMS	01:31:24 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WANNAMM DET A A A A A A A	Frequency
10 dB/div Ref -20.00 dB		Mkr1	18.899 22 GHz -83.170 dBm	Auto Tune
- <b>og</b> 30.0				Center Freq 15.000000000 GHz
40.0 50.0				Start Freq 10.000000000 GHz
60,0 70.0				Stop Freq 20.000000000 GHz
80 0 90 0			RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 5.67 ms (40000 pts)	
ANGS DWW THO WITTE		STATU		

# LTE B2\_5 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				Surger and the second	- 5 ×
RL RF 50Ω AC Center Freq 15.0000000	PNO: Fast	rig: Free Run	ALIGN AUTO #Avg Type: RMS	01:33:33 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBn	i ounningn	Atten: 0 dB	Mkr1	18.923 72 GHz -83.022 dBm	Auto Tune
-30.0					Center Freq 15.000000000 GHz
-40.0					Start Freq 10.000000000 GHz
60,0					Stop Freq 20.000000000 GHz
80.0				1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100					Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.	0 MHz	Sweep 26	Stop 20.000 GHz .67 ms (40000 pts)	
ANGS DW THO WITZ	# <b>U</b> E <b>V</b> V 3.	v-mn1/2	STATUS		

# LTE B2\_10 M\_CSE(10 G-20 G)\_Lowest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				Sector Sector Sector	
Center Freq 15.000000	000 GHz	sense:INT	#Avg Type: RMS	01:36:04 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref -20.00 dBn	IFGain:High #At	ten: 0 dB	Mkr1	18.907 97 GHz -83.161 dBm	Auto Tune
-30.0					Center Freq 15.000000000 GHz
-40.0					Start Freq 10.000000000 GHz
60.0 -70.0					Stop Freq 20.000000000 GHz
80.0				PMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100					Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0	MHz	Sweep 26	Stop 20.000 GHz .67 ms (40000 pts)	
MSG	<b><i>w</i> Cov</b> 3.0		STATUS		

# LTE B2\_10 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				
RL RF 50Ω AC Center Freq 15.0000000			TO 01:38:16 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBn	n oomanyn		kr1 18.905 72 GHz -82.901 dBm	Auto Tune
- <b>og</b> -30.0				Center Freq 15.000000000 GHz
40.0 50.0				Start Freq 10.000000000 GHz
60.0 70.0				Stop Freq 20.000000000 GHz
90 0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Siyaan	Stop 20.000 GHz 26.67 ms (40000 pts)	
			ATUS	

# LTE B2\_10 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- d ×
M RL RF 50 Ω AC Center Freq 15.000000		#Avg Type: RMS	01:40:30 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref -20.00 dBr	IFGain:High #Atten: 0 dB	Mkr1	18.934 72 GHz -83.013 dBm	Auto Tune
30,0				Center Freq 15.000000000 GHz
40.0 50.0				Start Freq 10.000000000 GHz
60.0 70.0				Stop Freq 20.000000000 GHz
-80.0 			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
ASG	#VBW 5.0 WITZ	SWEED 20		

#### LTE B2\_15 M\_CSE(10 G-20 G)\_Lowest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA		and the second second		
X RL RF 50Ω AC Center Freq 15.00000000	PNO: Fast ++ Trig: Free Run IFGain:High #Atten: 0 dB	ALIGN AUTO #Avg Type: RMS	01:43:05 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBm	n ounangn	Mkr1	18.902 97 GHz -82.941 dBm	Auto Tune
30,0				Center Freq 15.000000000 GHz
40.0 50.0				Start Freq 10.000000000 GHz
60.0 				Stop Freq 20.000000000 GHz
80.0			1 RMS	CF Step 1.000000000 GHz Auto Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
	#VBW 5.0 WH2	Sweep 20		

# LTE B2\_15 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- 5 ×
₩ RL RF 50Ω A Center Freq 15.000000		#Avg Type: RMS un	TO 01:45:22 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dB	n oomanyn	-	r1 18.913 22 GHz -82.837 dBm	Auto Tune
-30,0				Center Freq 15.000000000 GHz
40.0 50.0				Start Freq 10.000000000 GHz
60,0 70,0				Stop Freq 20.000000000 GHz
90 û			1 RMS	CF Step 1.000000000 GHz Auto Man
100				Freq Offset 0 Hz
Start 10.000 GHz	#VBW 3.0 MHz		Stop 20.000 GHz	
#Res BW 1.0 MHz			26.67 ms (40000 pts)	

# LTE B2\_15 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- d ×
RL RF 50Ω AC Center Freq 15.0000000	000 GHz PNO: Fast ++- Trig: Free Run	#Avg Type: RMS	01:47:42 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref -20.00 dBn	IFGain:High #Atten: 0 dB	Mkr1	18.912 97 GHz -82.668 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
40.0 50.0				Start Fred 10.000000000 GHz
.60.0				Stop Freq 20.000000000 GHz
80.0 90.0			1 FMS	CF Step 1.000000000 GHz <u>Auto</u> Mar
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
ASG	#* D** 3.0 WH2	STATU		

#### LTE B2\_20 M\_CSE(10 G-20 G)\_Lowest Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA		and the second second	Sector Sector and	
x RL RF 50Ω AC Center Freq 15.0000000		ALIGN AUTO #Avg Type: RMS	01:50:23 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBn		Mkr1	18.909 72 GHz -83.049 dBm	Auto Tune
30,0				Center Freq 15.000000000 GHz
40 0 50 0				Start Freq 10.000000000 GHz
80.0				Stop Freq 20.000000000 GHz
90 û			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Swoop 26	Stop 20.000 GHz 5.67 ms (40000 pts)	
	#VOW J.0 WINZ	Sweep 20		

# LTE B2\_20 M\_CSE(10 G-20 G)\_Middle Channel\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA				- 6 ×
RL RF 50Ω A Center Freq 15.000000		#Avg Type: RMS	0 01:52:46 PM May 09, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	Frequency
10 dB/div Ref -20.00 dB	n oannangn	Mki	1 18.931 72 GHz -83.050 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
50.0				Start Freq 10.000000000 GHz
60.0 70.0				Stop Freq 20.000000000 GHz
80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Succes	Stop 20.000 GHz 26.67 ms (40000 pts)	
	#VBW 5.0 MHz	Sweep		

# LTE B2\_20 M\_CSE(10 G-20 G)\_Highest Channel\_QPSK\_1RB



# **12. ANNEX A\_ TEST SETUP PHOTO**

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2405-FC033