

Appendix A: Conducted Power Output Data

1)Test For ANT0 Test Result

1.1) DC Mode

Test Result

Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	10MHz	QPSK	Lowest	E-TM1.1	10	46.45
Band41	10MHz	QPSK	Middle	E-TM1.1	10	45.66
Band41	10MHz	QPSK	Highest	E-TM1.1	10	45.34
Band41	10MHz	64QAM	Lowest	E-TM3.1	10	44.94
Band41	10MHz	64QAM	Middle	E-TM3.1	10	44.39
Band41	10MHz	64QAM	Highest	E-TM3.1	10	44.94
Band41	10MHz	256QAM	Lowest	E-TM3.1A	10	45.70
Band41	10MHz	256QAM	Middle	E-TM3.1A	10	45.10
Band41	10MHz	256QAM	Highest	E-TM3.1A	10	45.04
Band41	20MHz	QPSK	Lowest	E-TM1.1	20	46.07
Band41	20MHz	QPSK	Middle	E-TM1.1	20	45.62
Band41	20MHz	QPSK	Highest	E-TM1.1	20	45.59
Band41	20MHz	64QAM	Lowest	E-TM3.1	20	44.69
Band41	20MHz	64QAM	Middle	E-TM3.1	20	44.82
Band41	20MHz	64QAM	Highest	E-TM3.1	20	45.09
Band41	20MHz	256QAM	Lowest	E-TM3.1A	20	46.15
Band41	20MHz	256QAM	Middle	E-TM3.1A	20	45.96
Band41	20MHz	256QAM	Highest	E-TM3.1A	20	45.80

Test Graphs

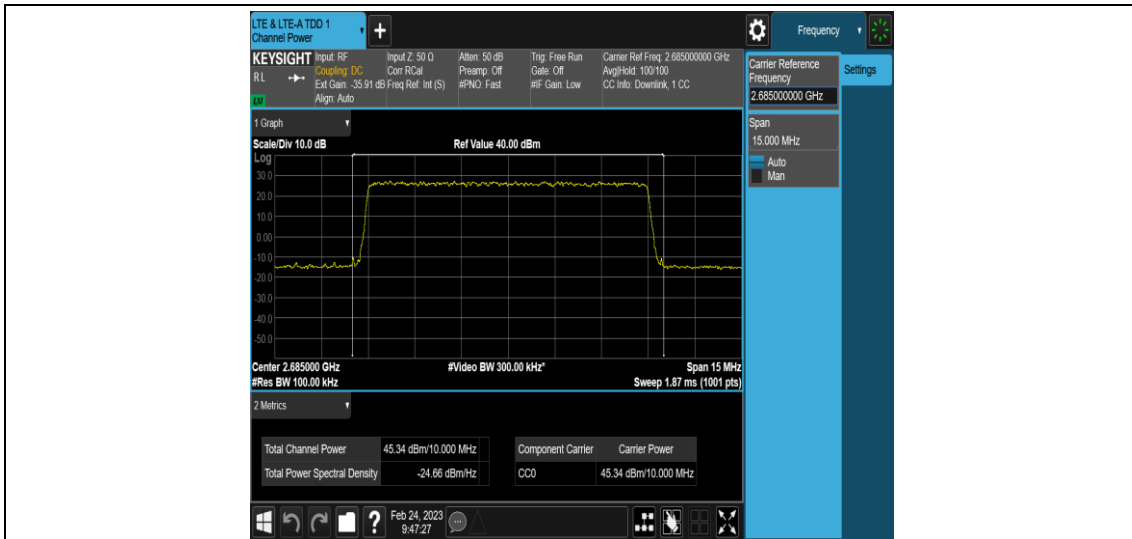
Band41-10MHz-QPSK-Lowest-E-TM1.1-10



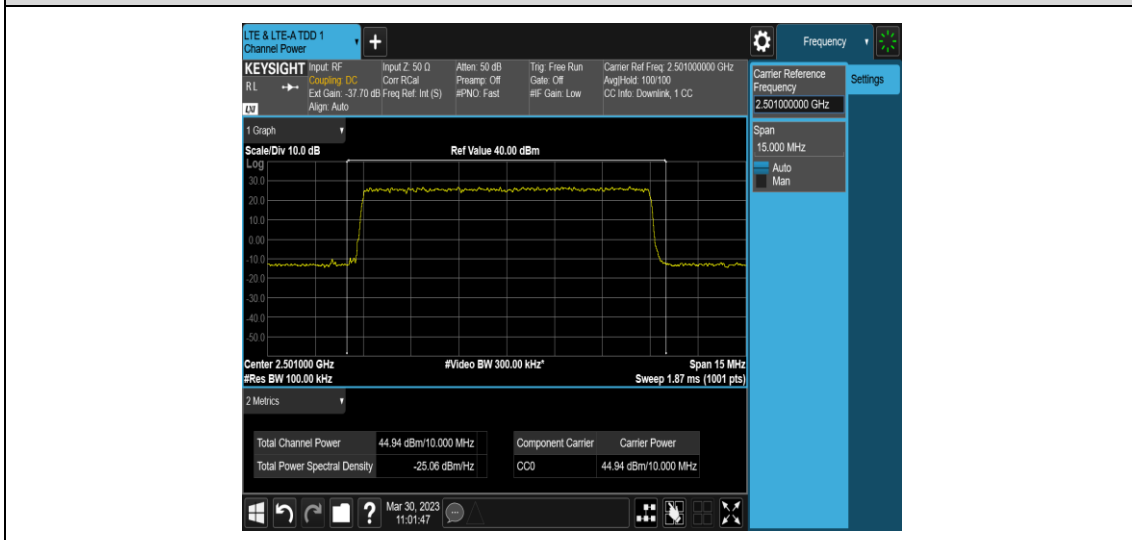
Band41-10MHz-QPSK-Middle-E-TM1.1-10



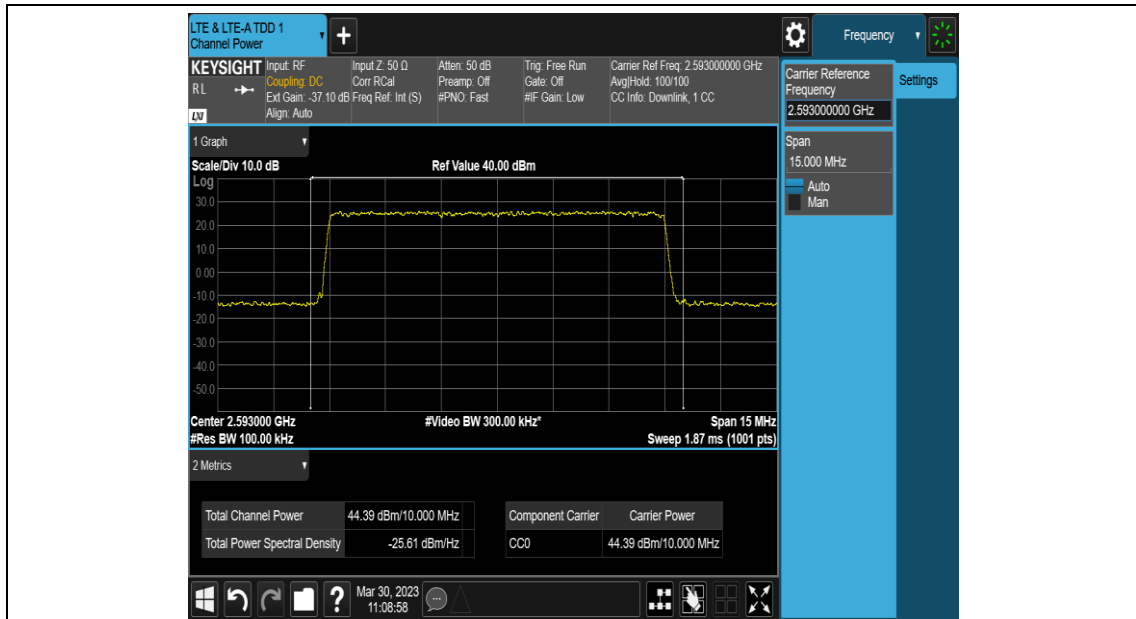
Band41-10MHz-QPSK-Highest-E-TM1.1-10



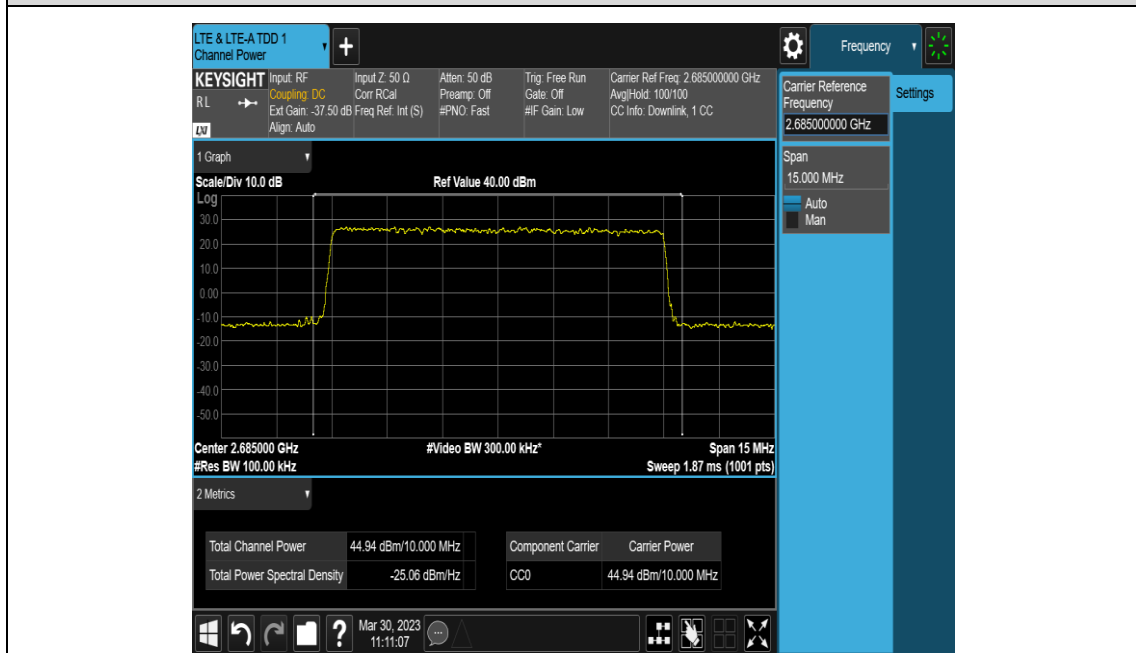
Band41-10MHz-64QAM-Lowest-E-TM3.1-10



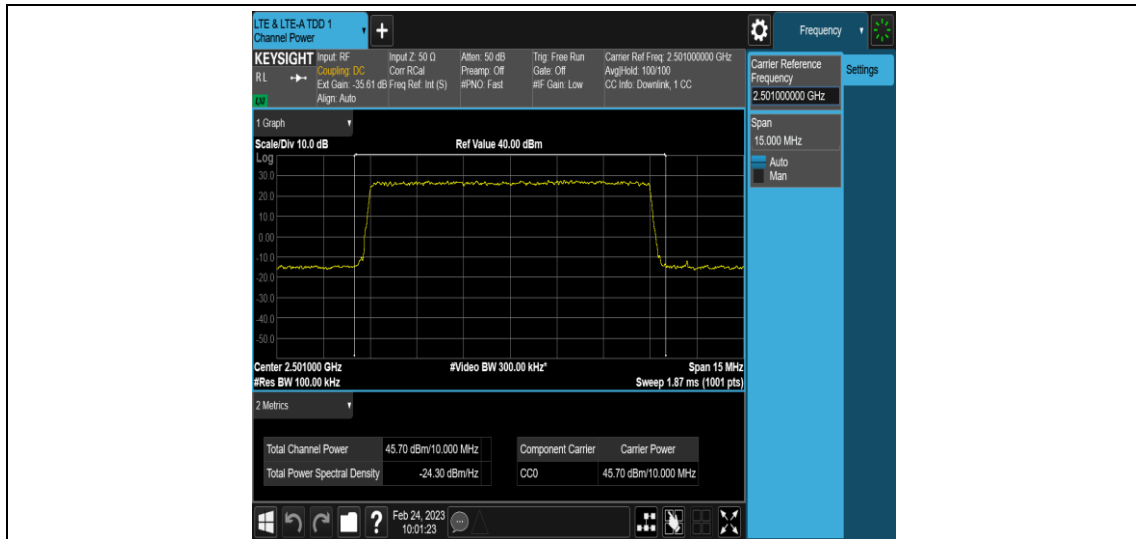
Band41-10MHz-64QAM-Middle-E-TM3.1-10



Band41-10MHz-64QAM-Highest-E-TM3.1-10



Band41-10MHz-256QAM-Lowest-E-TM3.1A-10



Band41-10MHz-256QAM-Middle-E-TM3.1A-10



Band41-10MHz-256QAM-Highest-E-TM3.1A-10



[illegible]

LTE & LTE-A TDD 1
Channel Power

KEYSIGHT Input: RF
 RL → Coupling: DC
 Ext Gain: -35.68 dB
 Align: Auto

Input Z: 50 Ω
 Corr Rcal
 Freq Ref: Int (S)

Atten: 50 dB
 Preamp: Off
 #PNO: Fast

Trng: Free Run
 Gate: Off
 #F Gain: Low

Carrier Ref Freq: 2.593000000 GHz
 Avg Hold: 100/100
 CC Info: Downlink, 1 CC

Carrier Reference Frequency
 2.593000000 GHz

Span
 30.000 MHz

Scale/Div 10.0 dB
Ref Value 40.00 dBm

Center 2.593000 GHz
 Res BW 200.0 kHz
 #Video BW 620.0 kHz
 Span 30 MHz
 Sweep 1.00 ms (1001 pts)

Total Channel Power 45.62 dBm/20.000 MHz
Total Power Spectral Density -27.39 dBm/Hz
Component Carrier CC0
Carrier Power 45.62 dBm/20.000 MHz

LTE & LTE-A TDD 1 Channel Power
 Carrier Reference Frequency 2.680000000 GHz
 Span 30.000 MHz
 Scale/Div 10.0 dB
 Ref Value 40.00 dBm
 Center 2.68000 GHz
 #Video BW 620.0 kHz
 Span 30 MHz
 #Res BW 200.0 kHz
 Sweep 1.00 ms (1001 pts)
 2 Metrics
 Total Channel Power 45.59 dBm/20.000 MHz
 Component Carrier CC0
 Carrier Power 45.59 dBm/20.000 MHz
 Total Power Spectral Density -27.42 dBm/Hz

Band41-20MHz-64QAM-Lowest-E-TM3.1-20



Band41-20MHz-64QAM-Middle-E-TM3.1-20



Band41-20MHz-64QAM-Highest-E-TM3.1-20



Band41-20MHz-256QAM-Lowest-E-TM3.1A-20



Band41-20MHz-256QAM-Middle-E-TM3.1A-20

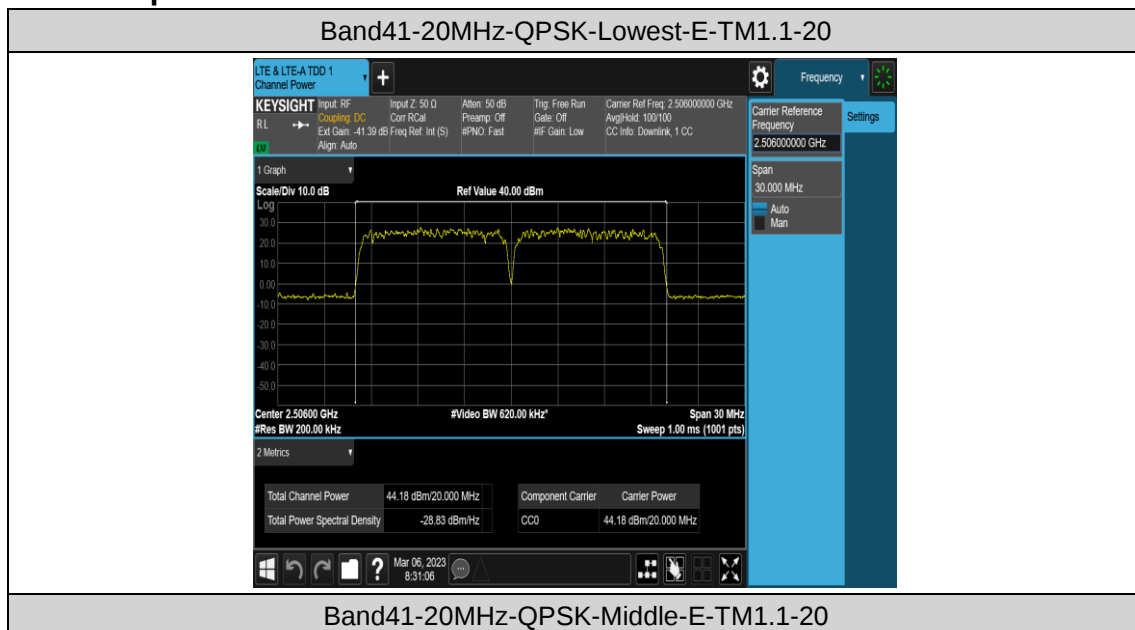


1.2) 2CA:10M+10M Mode

Test Result

Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	20MHz	QPSK	Lowest	E-TM1.1	20	44.18
Band41	20MHz	QPSK	Middle	E-TM1.1	20	45.58
Band41	20MHz	QPSK	Highest	E-TM1.1	20	45.86
Band41	20MHz	64QAM	Lowest	E-TM3.1	20	44.94
Band41	20MHz	64QAM	Middle	E-TM3.1	20	44.78
Band41	20MHz	64QAM	Highest	E-TM3.1	20	44.94
Band41	20MHz	256QAM	Lowest	E-TM3.1A	20	44.96
Band41	20MHz	256QAM	Middle	E-TM3.1A	20	46.08
Band41	20MHz	256QAM	Highest	E-TM3.1A	20	44.98

Test Graphs

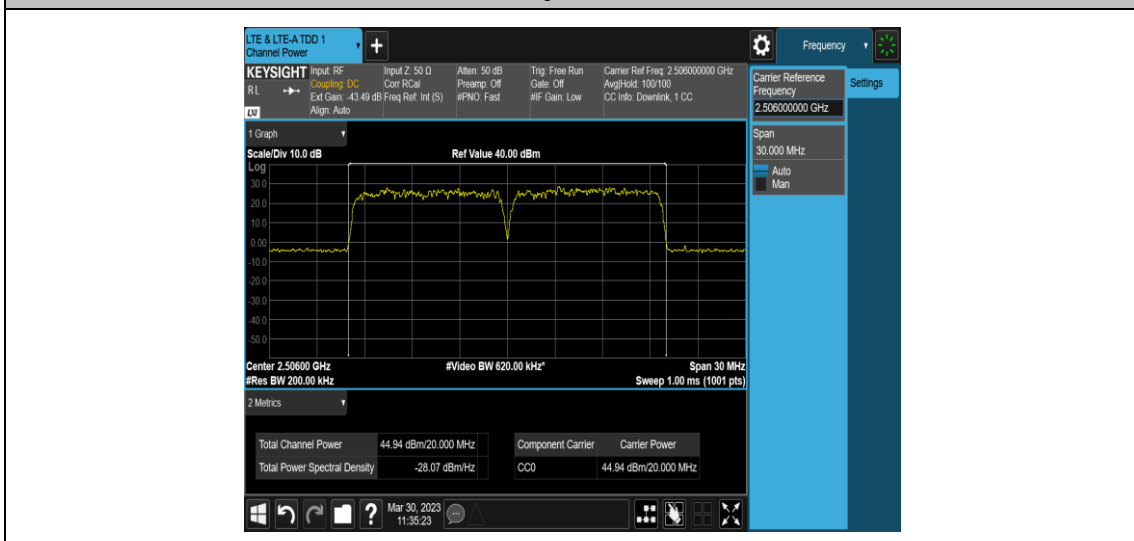




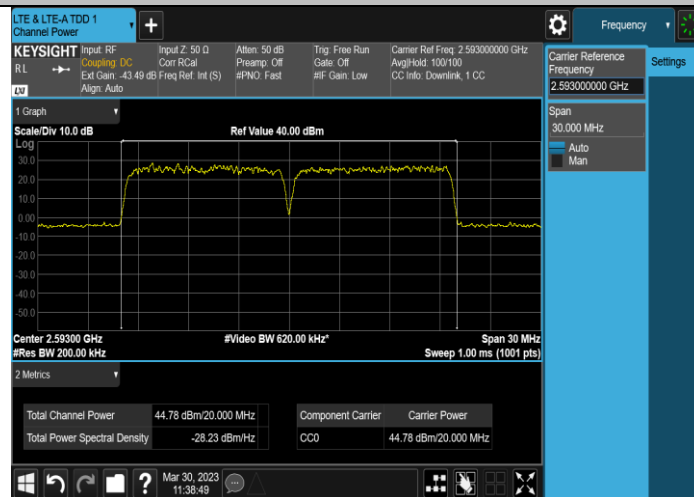
Band41-20MHz-QPSK-Highest-E-TM1.1-20



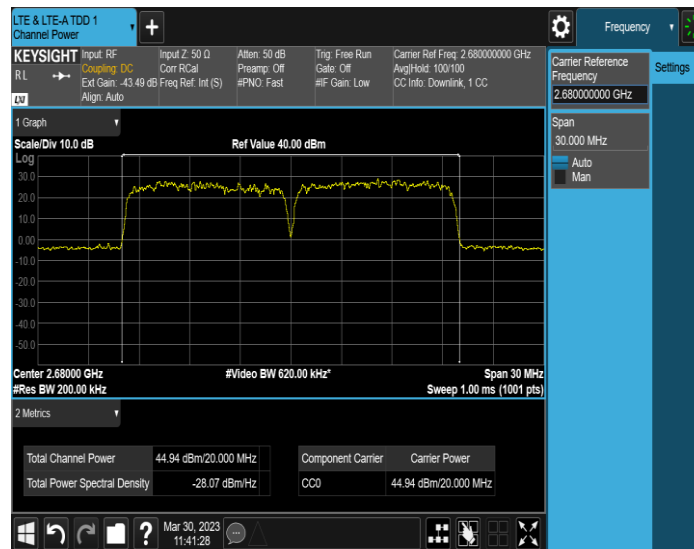
Band41-20MHz-64QAM-Lowest-E-TM3.1-20



Band41-20MHz-64QAM-Middle-E-TM3.1-20



Band41-20MHz-64QAM-Highest-E-TM3.1-20



Band41-20MHz-256QAM-Lowest-E-TM3.1A-20



Band41-20MHz-256QAM-Middle-E-TM3.1A-20



Band41-20MHz-256QAM-Highest-E-TM3.1A-20

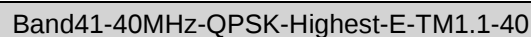


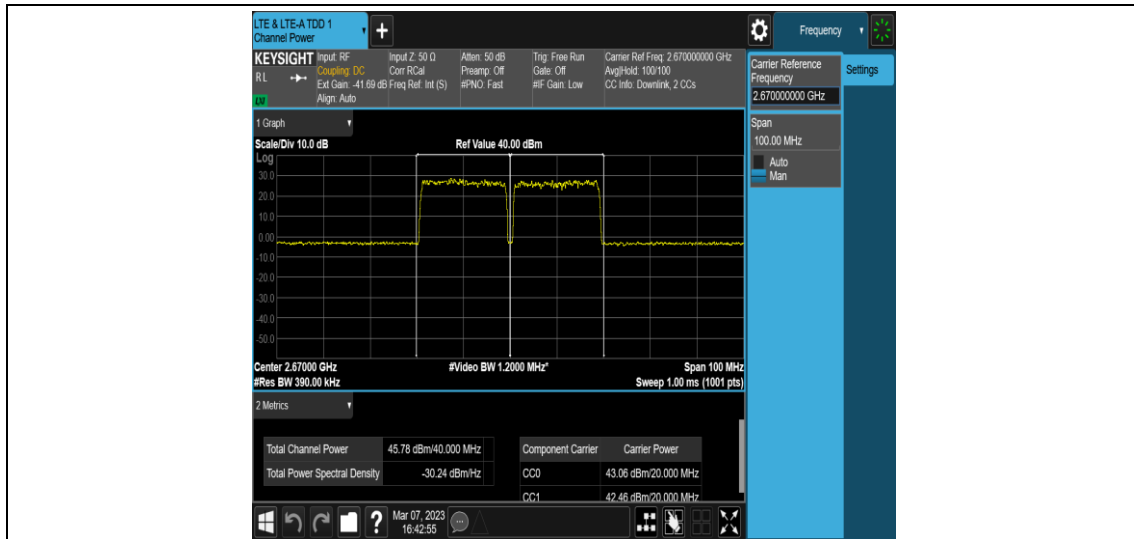
1.3) 2CA:20M+20M Mode

Test Result

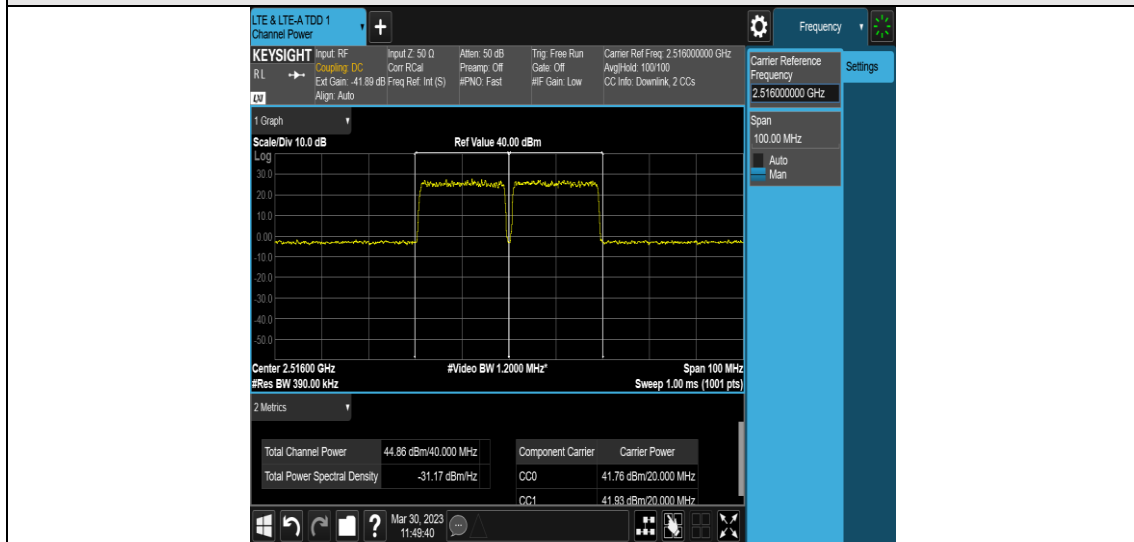
Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	40MHz	QPSK	Lowest	E-TM1.1	40	46.28
Band41	40MHz	QPSK	Middle	E-TM1.1	40	45.63
Band41	40MHz	QPSK	Highest	E-TM1.1	40	45.78
Band41	20MHz	64QAM	Lowest	E-TM3.1	40	44.86
Band41	20MHz	64QAM	Middle	E-TM3.1	40	44.95
Band41	20MHz	64QAM	Highest	E-TM3.1	40	44.97
Band41	40MHz	256QAM	Lowest	E-TM3.1A	40	44.92
Band41	40MHz	256QAM	Middle	E-TM3.1A	40	46.15
Band41	40MHz	256QAM	Highest	E-TM3.1A	40	46.25

Band41-40MHz-QPSK-Lowest-E-TM1.1-40

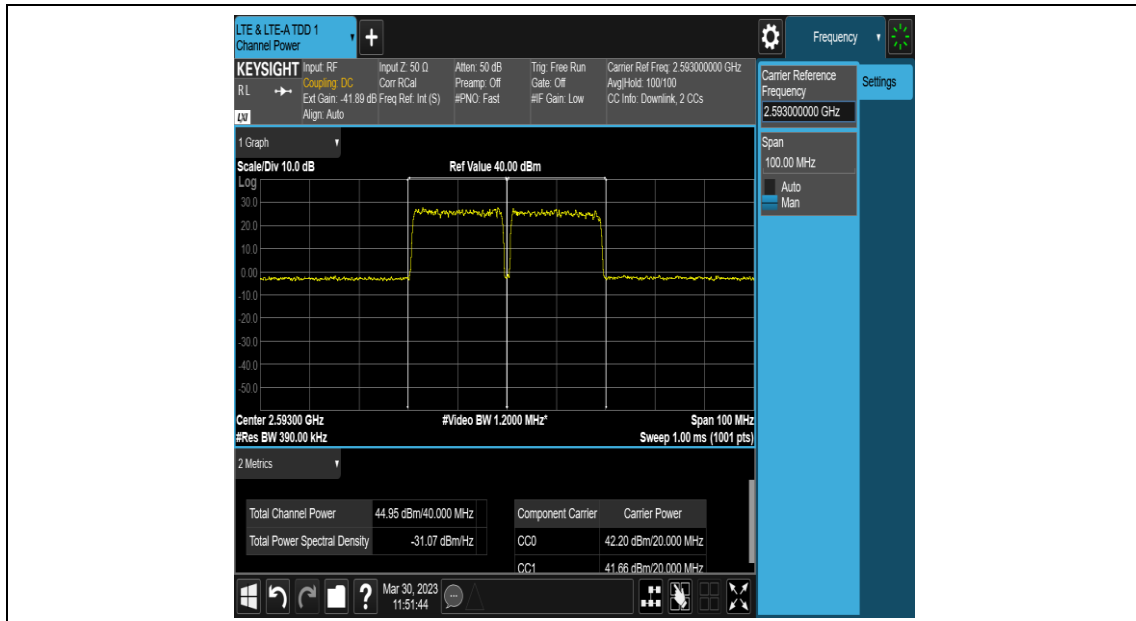




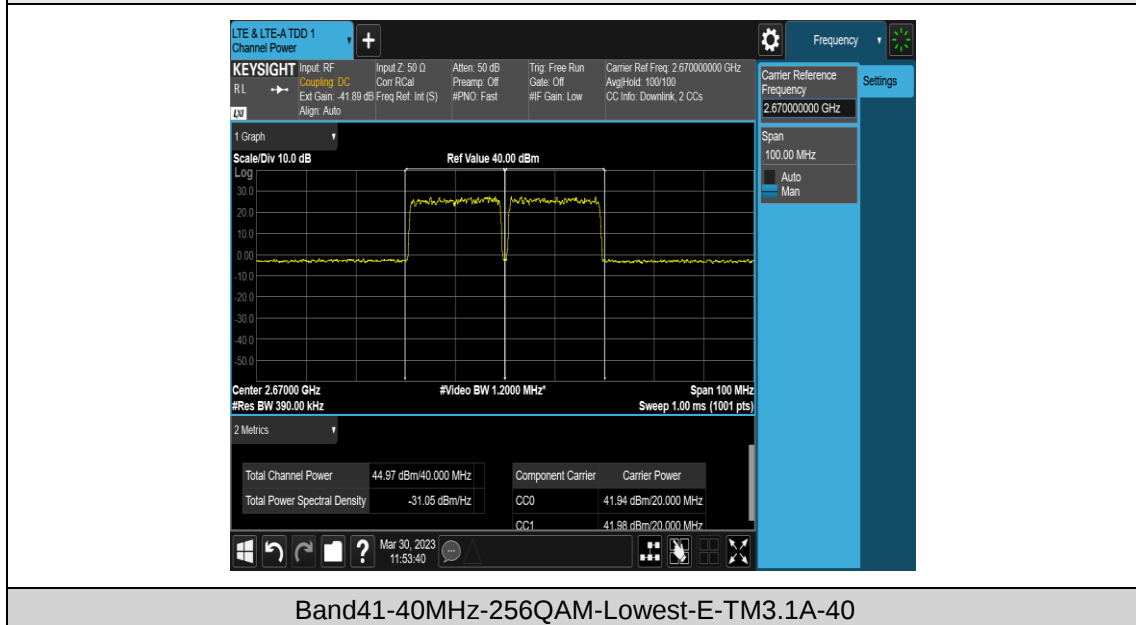
Band41-40MHz-64QAM-Lowest-E-TM3.1-40



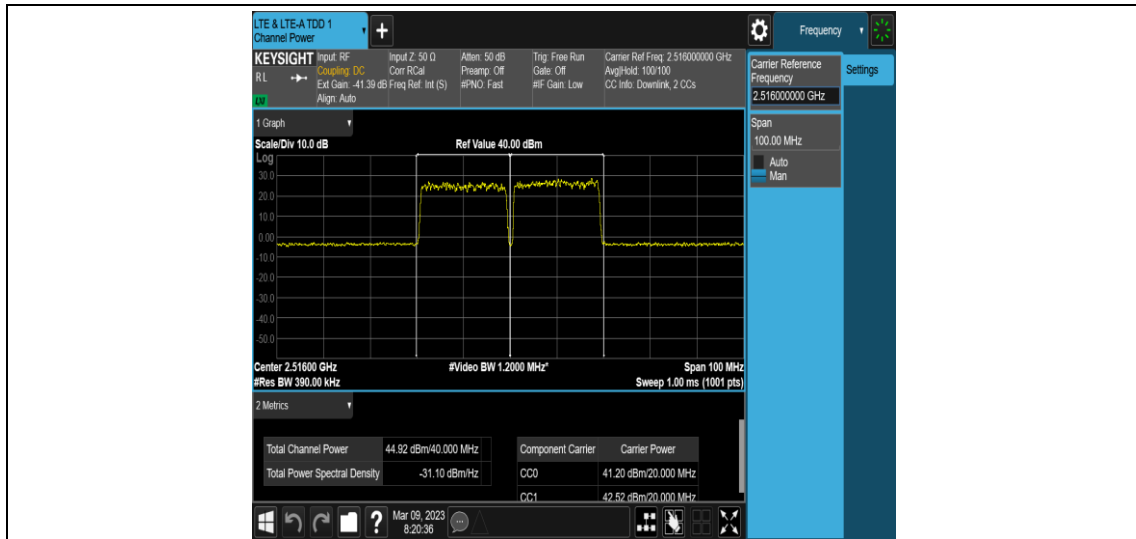
Band41-40MHz-64QAM-Middle-E-TM3.1-40



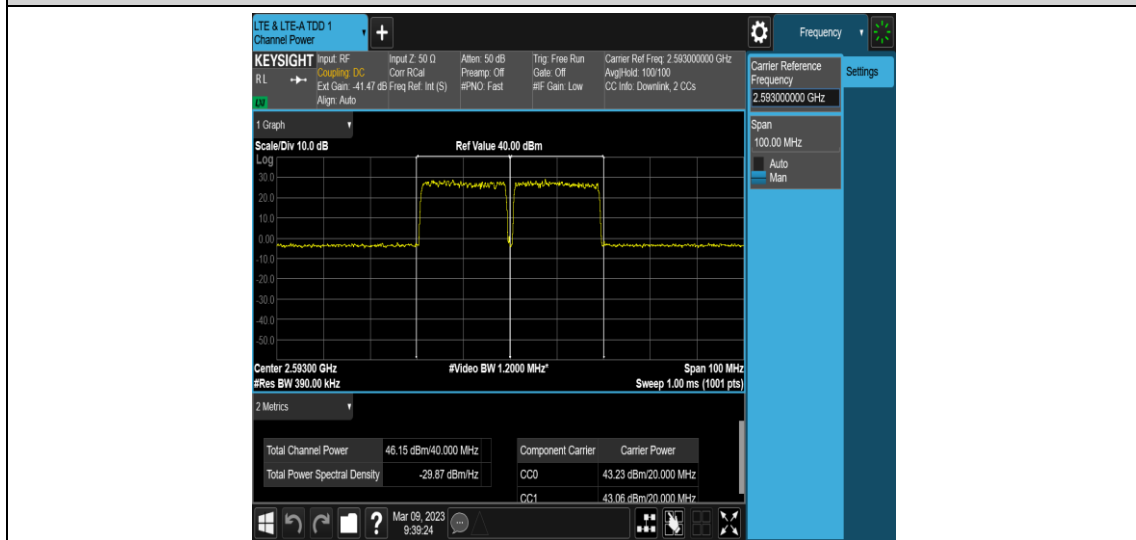
Band41-40MHz-64QAM-Highest-E-TM3.1-40



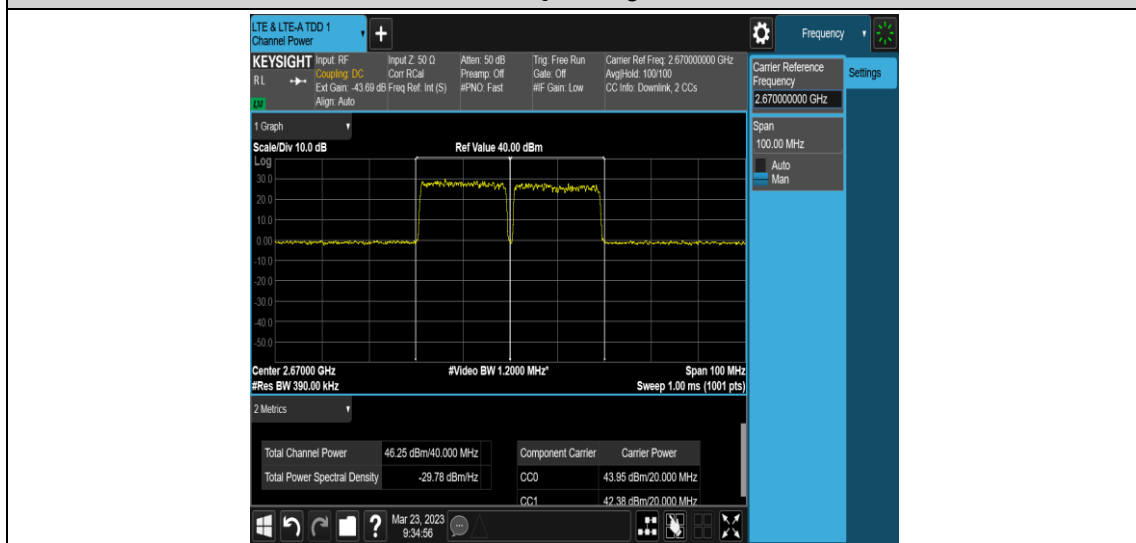
Band41-40MHz-256QAM-Lowest-E-TM3.1A-40



Band41-40MHz-256QAM-Middle-E-TM3.1A-40



Band41-40MHz-256QAM-Highest-E-TM3.1A-40



2)Test For ANT1 Test Result

2.1) DC Mode

Test Result

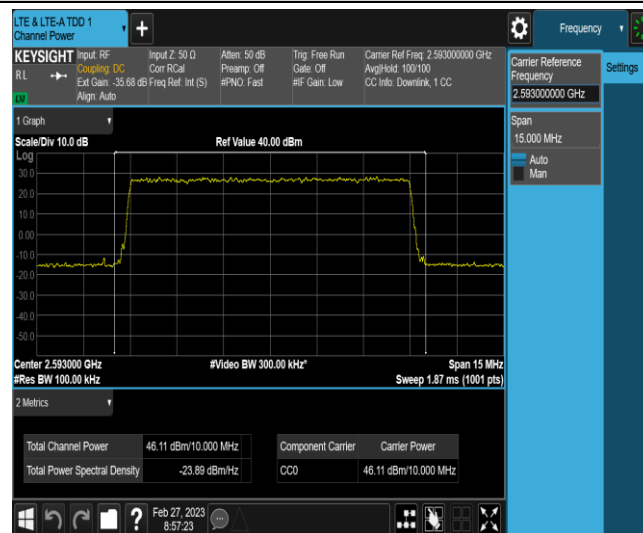
Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	10MHz	QPSK	Lowest	E-TM1.1	10	46.23
Band41	10MHz	QPSK	Middle	E-TM1.1	10	46.11
Band41	10MHz	QPSK	Highest	E-TM1.1	10	45.94
Band41	10MHz	64QAM	Lowest	E-TM3.1	10	44.93
Band41	10MHz	64QAM	Middle	E-TM3.1	10	44.42
Band41	10MHz	64QAM	Highest	E-TM3.1	10	44.93
Band41	10MHz	256QAM	Lowest	E-TM3.1A	10	46.46
Band41	10MHz	256QAM	Middle	E-TM3.1A	10	46.00
Band41	10MHz	256QAM	Highest	E-TM3.1A	10	45.81
Band41	20MHz	QPSK	Lowest	E-TM1.1	20	46.28
Band41	20MHz	QPSK	Middle	E-TM1.1	20	45.70
Band41	20MHz	QPSK	Highest	E-TM1.1	20	46.20
Band41	20MHz	64QAM	Lowest	E-TM3.1	20	44.52
Band41	20MHz	64QAM	Middle	E-TM3.1	20	44.79
Band41	20MHz	64QAM	Highest	E-TM3.1	20	45.07
Band41	20MHz	256QAM	Lowest	E-TM3.1A	20	46.07
Band41	20MHz	256QAM	Middle	E-TM3.1A	20	45.84
Band41	20MHz	256QAM	Highest	E-TM3.1A	20	45.53

Test Graphs

Band41-10MHz-QPSK-Lowest-E-TM1.1-10



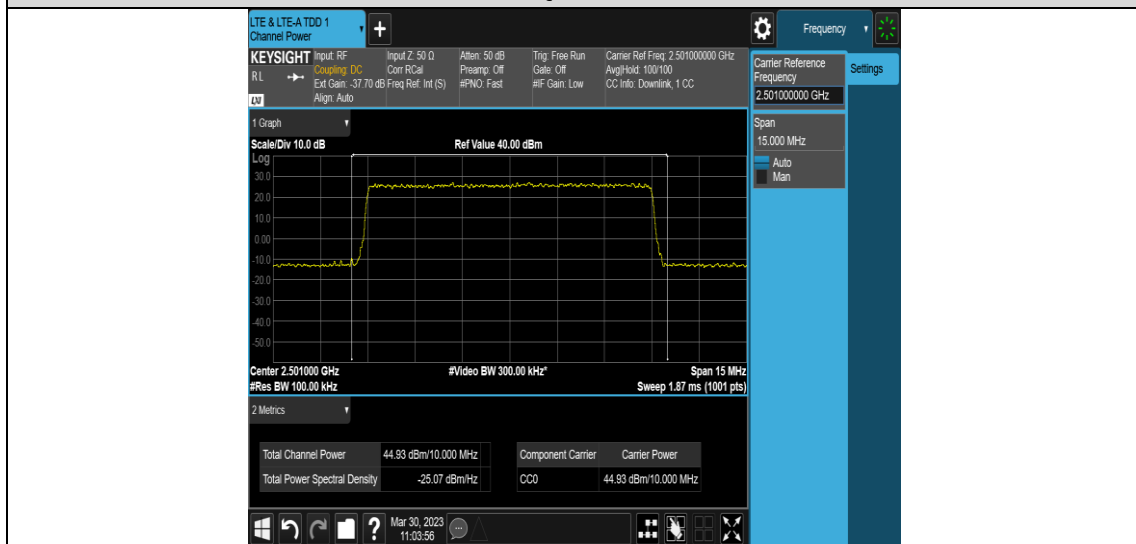
Band41-10MHz-QPSK-Middle-E-TM1.1-10



Band41-10MHz-QPSK-Highest-E-TM1.1-10



Band41-10MHz-64QAM-Lowest-E-TM3.1-10



Band41-10MHz-64QAM-Middle-E-TM3.1-10



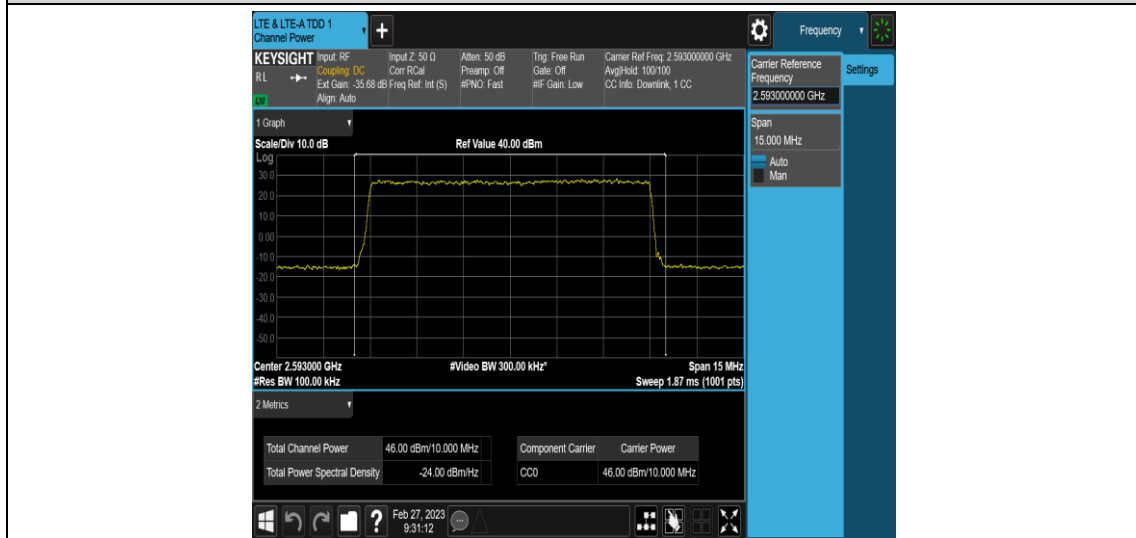
Band41-10MHz-64QAM-Highest-E-TM3.1-10



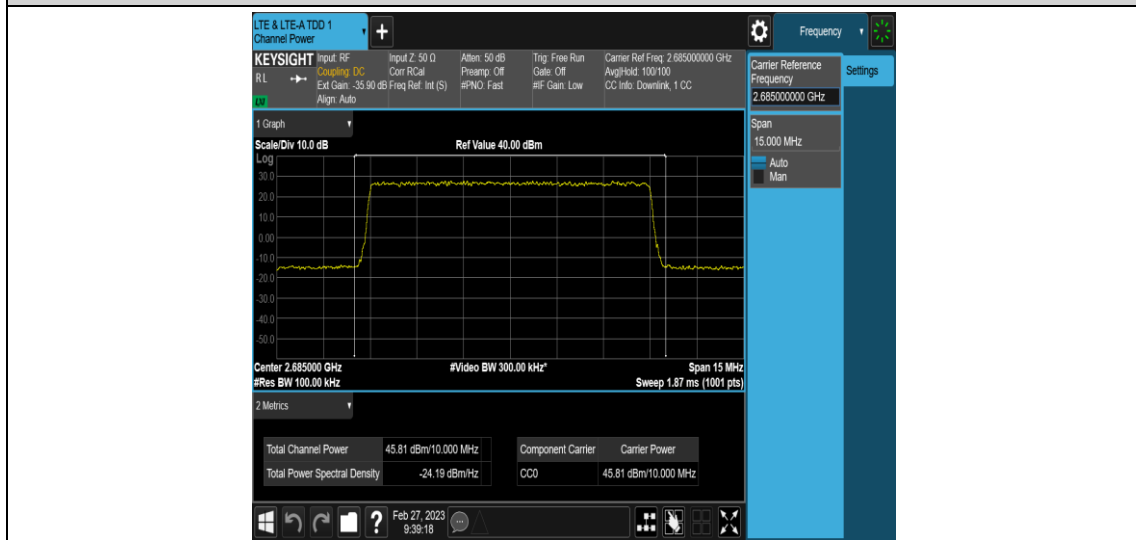
Band41-10MHz-256QAM-Lowest-E-TM3.1A-10



Band41-10MHz-256QAM-Middle-E-TM3.1A-10



Band41-10MHz-256QAM-Highest-E-TM3.1A-10



Band41-20MHz-QPSK-Lowest-E-TM1.1-20



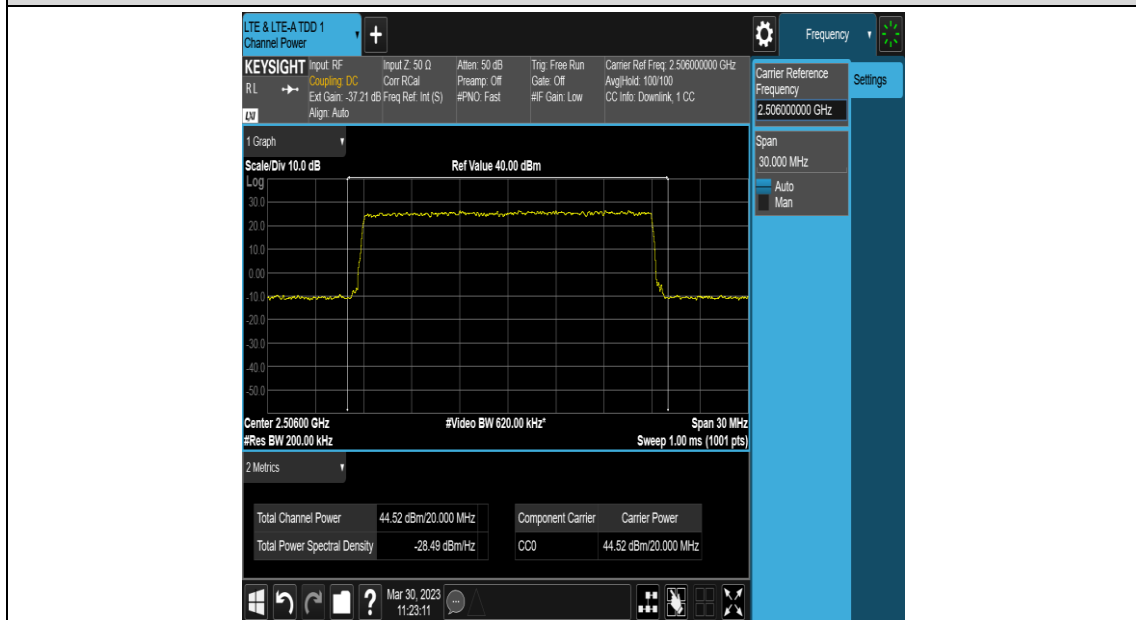
Band41-20MHz-QPSK-Middle-E-TM1.1-20



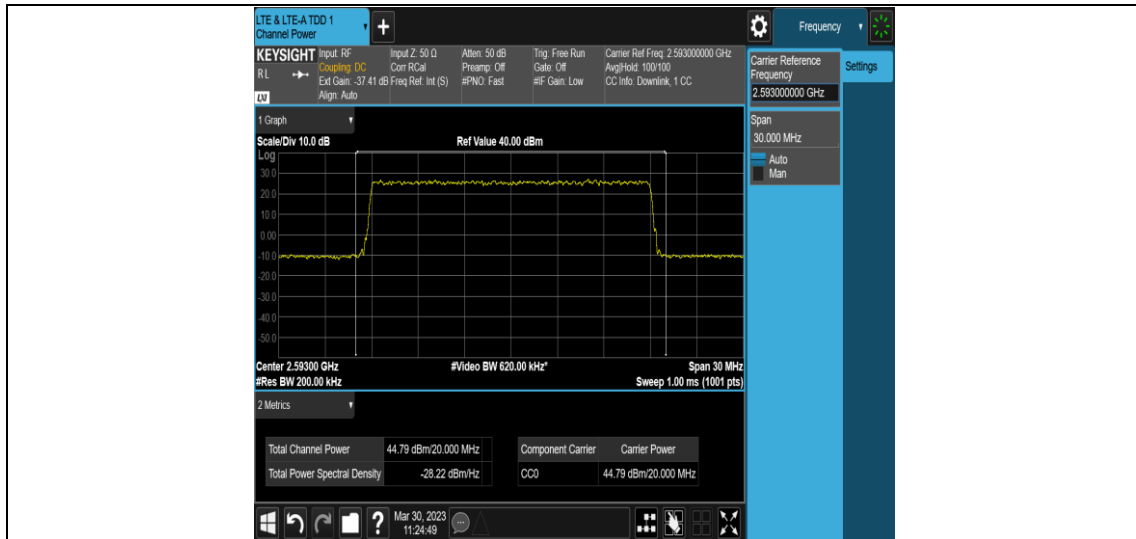
Band41-20MHz-QPSK-Highest-E-TM1.1-20



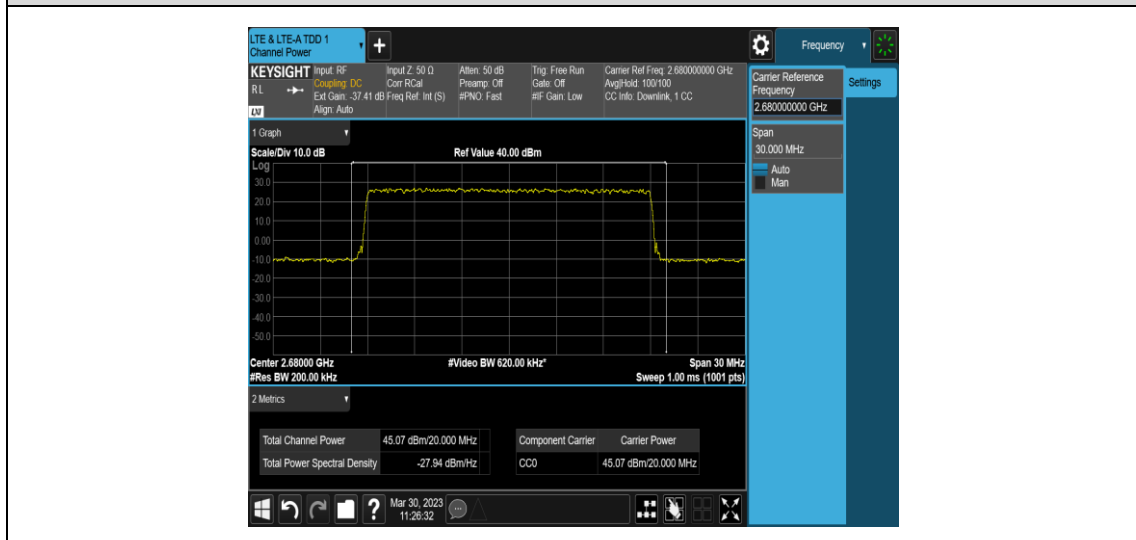
Band41-20MHz-64QAM-Lowest-E-TM3.1-20



Band41-20MHz-64QAM-Middle-E-TM3.1-20



Band41-20MHz-64QAM-Highest-E-TM3.1-20



Band41-20MHz-256QAM-Lowest-E-TM3.1A-20



Band41-20MHz-256QAM-Middle-E-TM3.1A-20



Band41-20MHz-256QAM-Highest-E-TM3.1A-20



2.2) 2CA:10M+10M Mode

Test Result

Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	20MHz	QPSK	Lowest	E-TM1.1	20	44.33
Band41	20MHz	QPSK	Middle	E-TM1.1	20	45.72
Band41	20MHz	QPSK	Highest	E-TM1.1	20	45.59
Band41	20MHz	64QAM	Lowest	E-TM3.1	20	44.99
Band41	20MHz	64QAM	Middle	E-TM3.1	20	44.53
Band41	20MHz	64QAM	Highest	E-TM3.1	20	44.57
Band41	20MHz	256QAM	Lowest	E-TM3.1A	20	45.98
Band41	20MHz	256QAM	Middle	E-TM3.1A	20	46.41
Band41	20MHz	256QAM	Highest	E-TM3.1A	20	45.23

Test Graphs

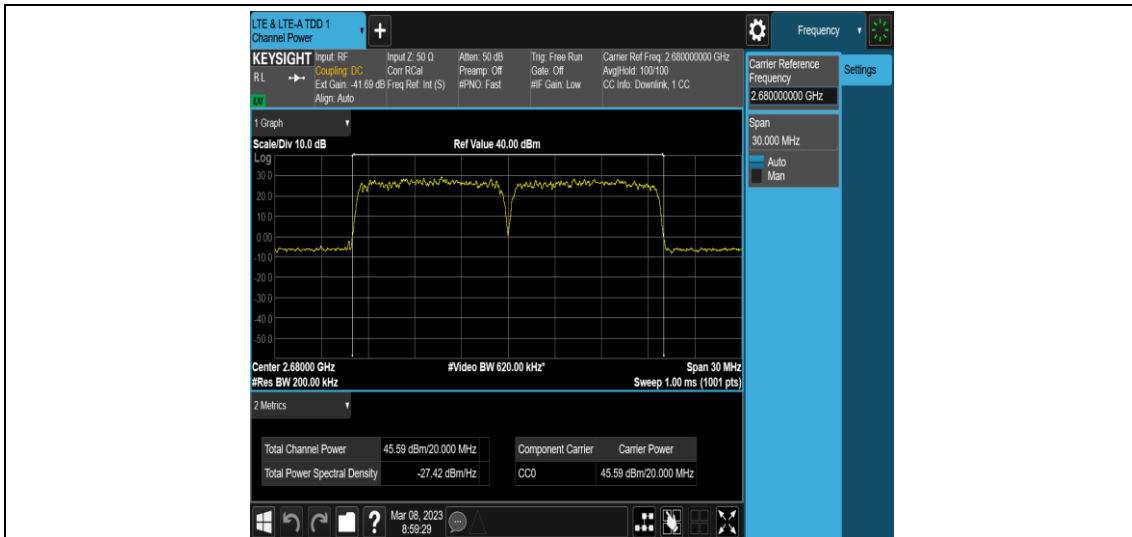
Band41-20MHz-QPSK-Lowest-E-TM1.1-20



Band41-20MHz-QPSK-Middle-E-TM1.1-20



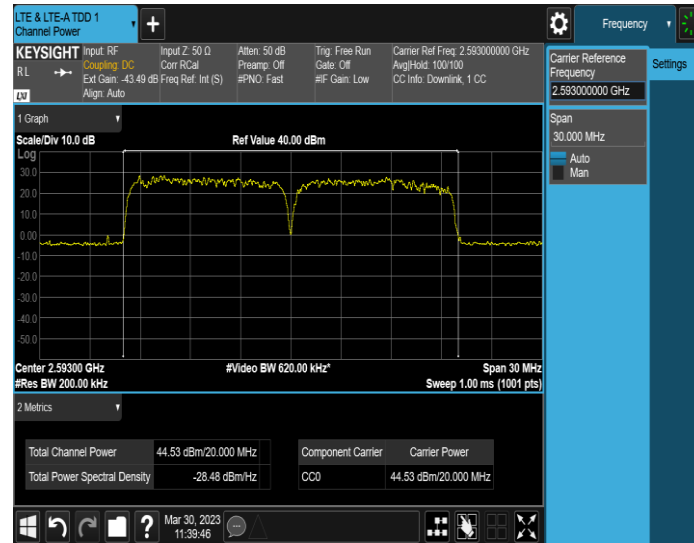
Band41-20MHz-QPSK-Highest-E-TM1.1-20



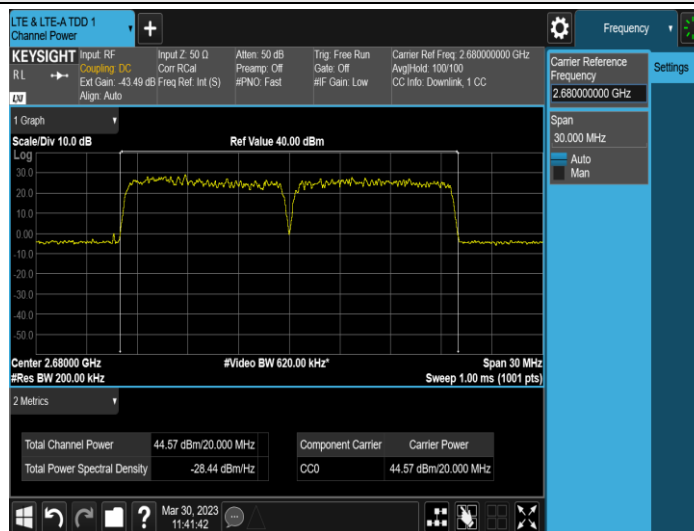
Band41-20MHz-64QAM-Lowest-E-TM3.1-20



Band41-20MHz-64QAM-Middle-E-TM3.1-20



Band41-20MHz-64QAM-Highest-E-TM3.1-20



Band41-20MHz-256QAM-Lowest-E-TM3.1A-20



Band41-20MHz-256QAM-Middle-E-TM3.1A-20



Band41-20MHz-256QAM-Highest-E-TM3.1A-20

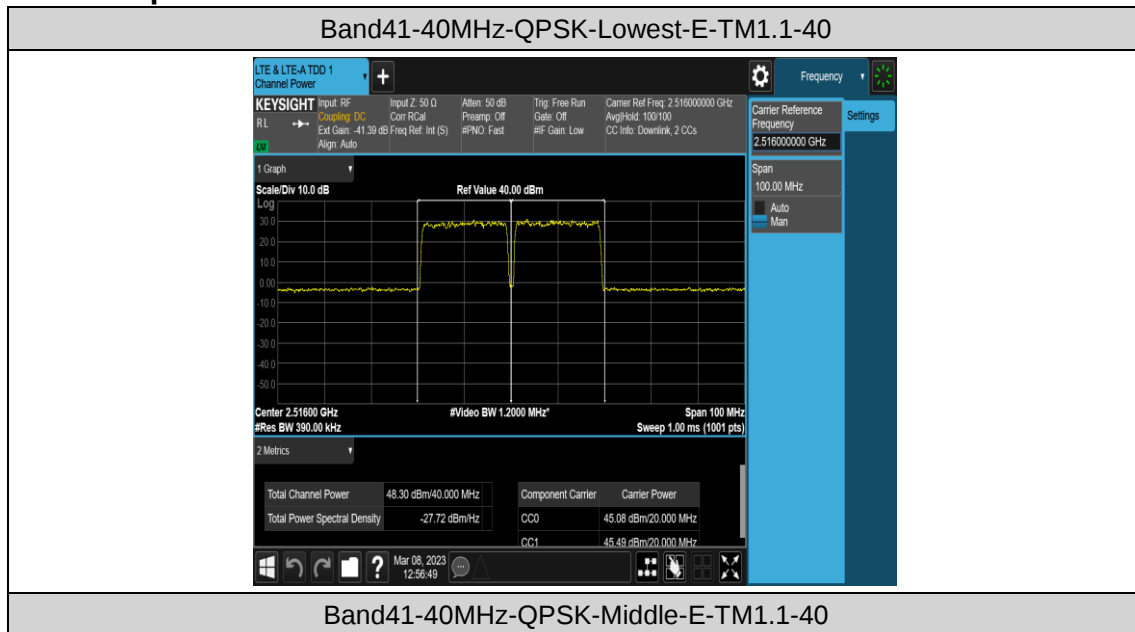


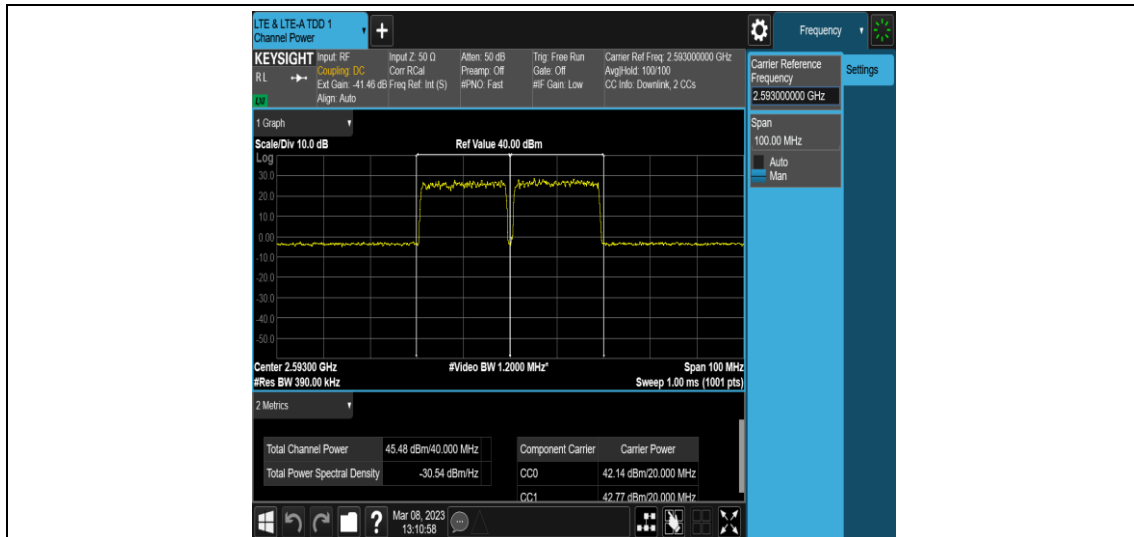
2.3) 2CA:20M+20M Mode

Test Result

Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	40MHz	QPSK	Lowest	E-TM1.1	40	48.3
Band41	40MHz	QPSK	Middle	E-TM1.1	40	45.48
Band41	40MHz	QPSK	Highest	E-TM1.1	40	44.82
Band41	20MHz	64QAM	Lowest	E-TM3.1	40	44.5
Band41	20MHz	64QAM	Middle	E-TM3.1	40	44.63
Band41	20MHz	64QAM	Highest	E-TM3.1	40	44.48
Band41	40MHz	256QAM	Lowest	E-TM3.1A	40	46.14
Band41	40MHz	256QAM	Middle	E-TM3.1A	40	44.6
Band41	40MHz	256QAM	Highest	E-TM3.1A	40	46.16

Test Graphs

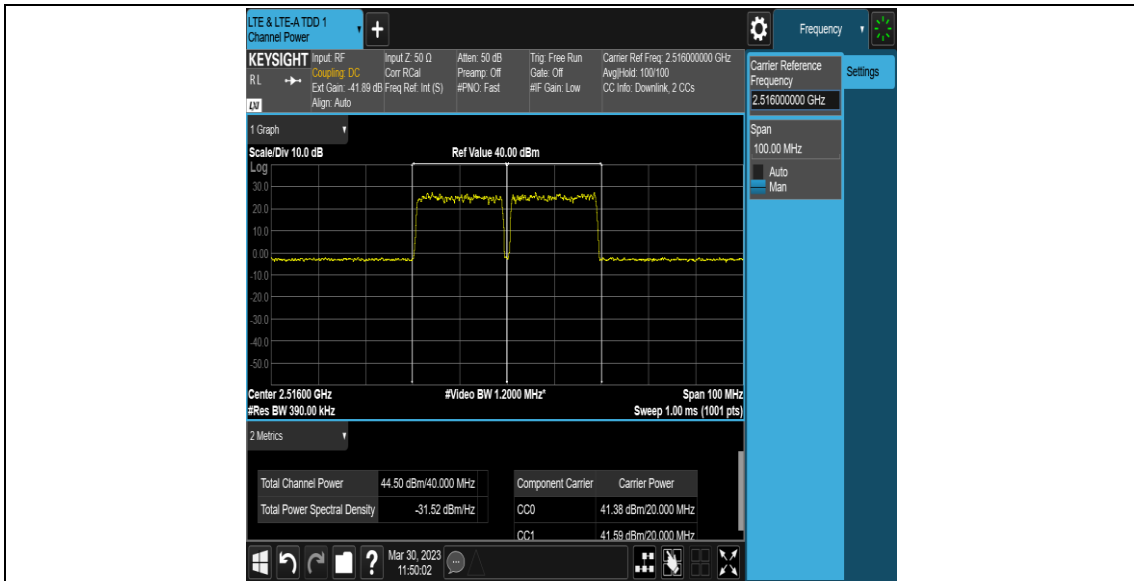




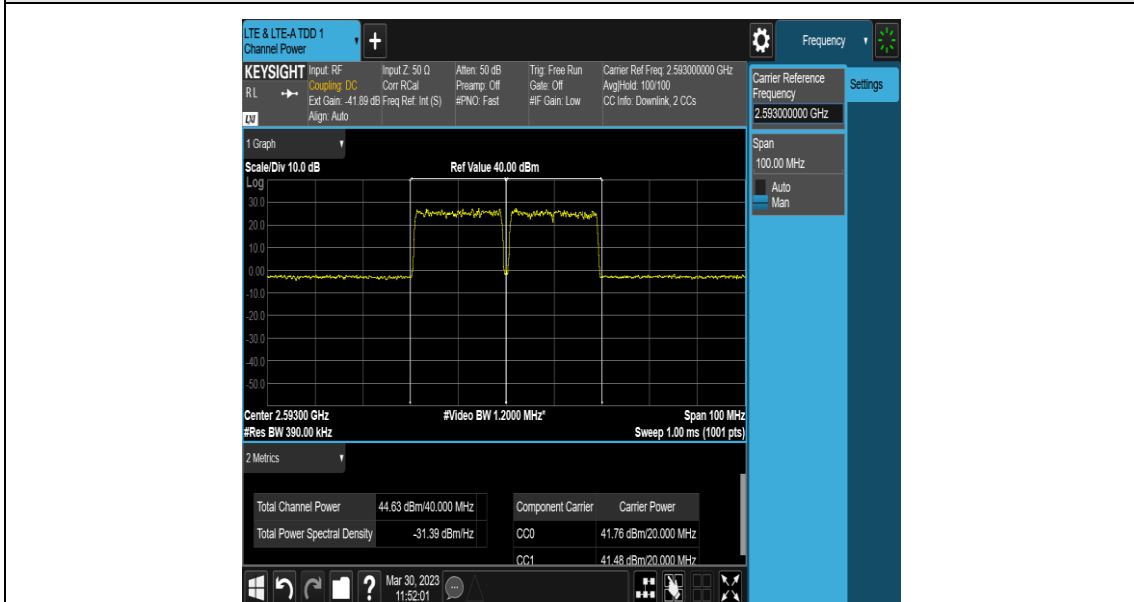
Band41-40MHz-QPSK-Highest-E-TM1.1-40



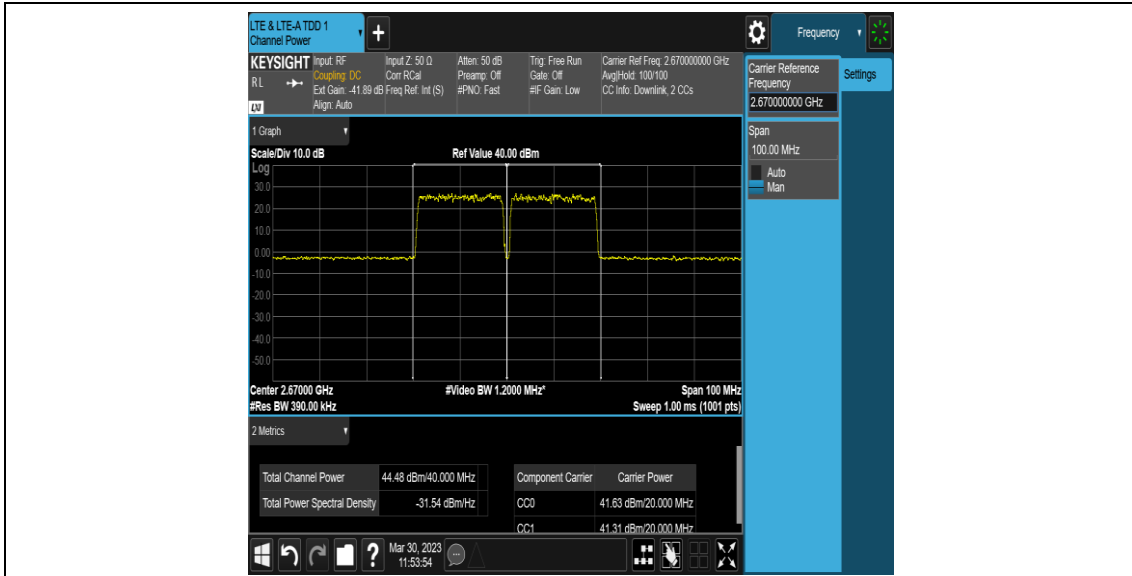
Band41-40MHz-64QAM-Lowest-E-TM3.1-40



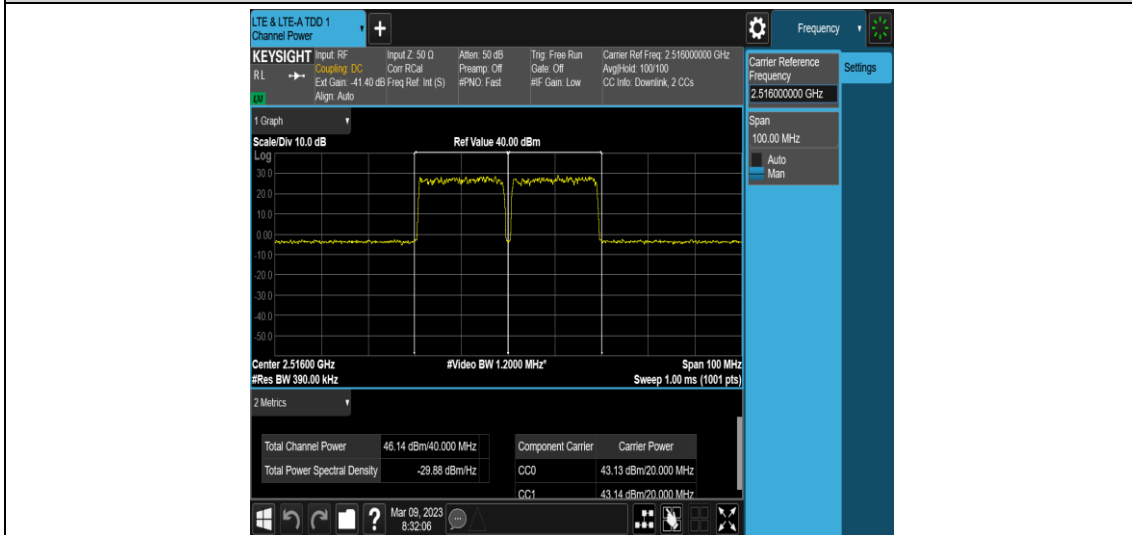
Band41-40MHz-64QAM-Middle-E-TM3.1-40



Band41-40MHz-64QAM-Highest-E-TM3.1-40



Band41-40MHz-256QAM-Lowest-E-TM3.1A-40



Band41-40MHz-256QAM-Middle-E-TM3.1A-40



3)Test For ANT2 Test Result

3.1) DC Mode

Test Result

Band	Bandwidth	Modulation	Channel	Mode	IntegBw (MHz)	Power (dBm)
Band41	10MHz	QPSK	Lowest	E-TM1.1	10	45.92
Band41	10MHz	QPSK	Middle	E-TM1.1	10	45.61
Band41	10MHz	QPSK	Highest	E-TM1.1	10	45.44
Band41	10MHz	64QAM	Lowest	E-TM3.1	10	45.02
Band41	10MHz	64QAM	Middle	E-TM3.1	10	44.91
Band41	10MHz	64QAM	Highest	E-TM3.1	10	44.80
Band41	10MHz	256QAM	Lowest	E-TM3.1A	10	46.62
Band41	10MHz	256QAM	Middle	E-TM3.1A	10	46.14
Band41	10MHz	256QAM	Highest	E-TM3.1A	10	45.35
Band41	20MHz	QPSK	Lowest	E-TM1.1	20	45.66
Band41	20MHz	QPSK	Middle	E-TM1.1	20	45.55
Band41	20MHz	QPSK	Highest	E-TM1.1	20	45.22
Band41	20MHz	64QAM	Lowest	E-TM3.1	20	44.15
Band41	20MHz	64QAM	Middle	E-TM3.1	20	44.62
Band41	20MHz	64QAM	Highest	E-TM3.1	20	44.91
Band41	20MHz	256QAM	Lowest	E-TM3.1A	20	45.73
Band41	20MHz	256QAM	Middle	E-TM3.1A	20	45.45
Band41	20MHz	256QAM	Highest	E-TM3.1A	20	45.52

Test Graphs

Band41-10MHz-QPSK-Lowest-E-TM1.1-10



Band41-10MHz-QPSK-Middle-E-TM1.1-10



Band41-10MHz-QPSK-Highest-E-TM1.1-10