

Port C, Channel Position M 20.0 MHz

KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 22 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Powe Trig: Free Run	f 123456 WWWWWW ANNNNN	Select Marker Marker 1 Marker Frequency	
Spectrum v cale/Div 10 dB		Ref LvI Offset 41.0 Ref Level 51.23 dB			2.645 8 GHz -26.46 dBm	2.645823266 GHz Marker Mode	Settings Peak Search
11.2 11.2 11.2 11.2 11.2 12.3 3.77 18.8					fit 1-19.02 d8m	 Normal Delta (Δ) Fixed Off Delta Marker (Reset Delta) Marker Table On 	Pk Searc Config Propertie Marker Function Marker Counter
18 8 18 8 18 8 18 8 18 9 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Mar 13, 2018 11:05:38 AM	#Video BW 3.0 M	Hz		Stop 3.000 GHz 10.0 s (2000 pts)	Off Marker Settings Diagram All Markers Off Couple Markers On Off	

Spectrum Analy Swept SA	zer 1	ł					Marker	- 米
	Input: RF Coupling: DC Align: Auto	Corrections: Off	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum Scale/Div 10 dl	7	R	ef LvI Offset 44.20 ef Level 23.23 dB	6 dB		.359 GHz 4.09 dBm	Marker Frequency 4.358679340 GHz	Settings Peak
Log 13.2 3.23							Marker Mode Normal Delta (Δ)	Search Pk Search Config Properties
-6.77 -16.8						DL1-19.02 dBm	Fixed Off Delta Marker	Marker Function Marker→
-20.0 -36.8 -46.8		~~~~~					(Reset Delta) Marker Table On Off	Counter
-56.8							Marker Settings Diagram All Markers Off	
Start 3.000 GH2 #Res BW 1.0 M		Nex 12, 2010	#Video BW 3.0 M	Hz		p 10.000 GHz 0 s (2000 pts)	Couple Markers On Off	

EYSIGHT Input: RF L Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Marker 1	
Spectrum v cale/Div 10 dB	F	Ref LvI Offset 43.80 Ref Level 19.54 dB) dB		1.580 GHz 40.30 dBm	Marker Frequency 21.579789895 GHz	Settings Peak
						Marker Mode Normal 	Peak Search Pk Searc Config
						Delta (∆) Fixed	Propertie
					DL1 -19.02 dBm	Off	Marker Functior
					1	Delta Marker (Reset Delta)	Marker- Counter
0.5						Marker Table On Off	Counter
						Marker Settings Diagram	
D.5		#Video BW 3.0 Mi	Hz	Sto	op 22.000 GHz	All Markers Off Couple Markers On	



Port C, Channel Position T 20.0 MHz

L Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 22 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN		
Spectrum		Ref LvI Offset 41.0 Ref Level 51.23 dB	3 dB		647 3 GHz 26.40 dBm	Marker Frequency 2.647324015 GHz Marker Mode	Settings Peak Search
41 2 41 2 41 2 41 2 41 2 41 2 41 2 41 2	Mar 13, 2018	#Video BW 3.0 M	Hz		10 1 10 2 dim	 Normal Delta (∆) Fixed Off Delta Marker (Reset Delta) Marker Table On Marker Settings Diagram All Markers Off Couple Markers On Off 	Pk Search Config Propertiet Marker Function Marker→ Counter

Spectrum Analy Swept SA	/zer 1	+					Marker	- * 条
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum Scale/Div 10 d Log	T B		ef LvI Offset 44.2 ef Level 23.23 dB			4.380 GHz 3.54 dBm	Marker Frequency 4.379689845 GHz Marker Mode	Settings Peak Search
13.2 3.23							O Normal Delta (Δ)	Pk Search Config Properties
-6.77						- DL1 -19.02 dBm	Fixed	Marker Function
-26.8							Delta Marker (Reset Delta) Marker Table	Marker→ Counter
-46.8							On Off Marker Settings Diagram	
-66.8	z		#Video BW 3.0 M	Hz	Sto	p 10.000 GHz	All Markers Off Couple Markers	
#Res BW 1.0 M		Mar 13, 0010				0 s (2000 pts)	On Off	

EYSIGHT Input: RF L	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB PNO: Fast Preamp: Off Gate: Off µW Path: Standard IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Free Run A N N N N N	Marker 1	
Spectrum v	F	Ref LvI Offset 43.80 dB	Mkr1 21.586 GHz	Marker Frequency 21.585792896 GHz	ettings
ale/Div 10 dB	F	Ref Level 19.54 dBm	-40.30 dBm		eak earch
					k Sear onfig
				Delta (Δ)	
				Fixed	roperti
			DL1 -19.02 dBn		larker unctior
				N	larker-
			1	Delta Marker (Reset Delta)	
	~~~~~~			Marker Table C	ounter
				Off	
				Marker Settings Diagram	
				All Markers Off	
art 10.000 GHz es BW 1.0 MHz		#Video BW 3.0 MHz	Stop 22.000 GH: #Sweep 20.0 s (2000 pts		



### Configuration NB-IoT-InBand-1C, QPSK

Channel Bandwidth	RBW	Limit
	(MHz)	(dBm)
5.0 MHz	1.0	-19.02
10.0 MHz	1.0	-19.02
15.0 MHz	1.0	-19.02
20.0 MHz	1.0	-19.02

#### Port C, Channel Position M 5.0 MHz





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L Coupling: DC Align: Auto	Corrections: Off	#Atten: 0 dB PNO: Fa: Preamp: Off Gate: Off µW Path: Standard IF Gain: I Sig Track	f Trig: Free Run High	<b>1</b> 23456 WWWWWW ANNNNN		
Spectrum v cale/Div 10 dB		ef LvI Offset 43.80 dB ef Level 19.54 dBm		1.586 GHz 40.17 dBm	Marker Frequency 21.585792896 GHz	Settings
og	R	ar Level 19.54 dBm		ю. 17 авт	Marker Mode  Normal	Peak Search Pk Searc
					Delta (Δ)	Config Propertie
				DL1 -19.02 dBm	Fixed	Marker Function
				1	Delta Marker (Reset Delta)	Marker-
0.5				<b>`</b> -	Marker Table On Off	Counter
					Marker Settings Diagram	
					All Markers Off	
tart 10.000 GHz Res BW 1.0 MHz	1	#Video BW 3.0 MHz		op 22.000 GHz .0 s (2000 pts)	Couple Markers On Off	

#### Port C, Channel Position M 10.0 MHz



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	_
Spectrum v		Ref LvI Offset 44.20 Ref Level 23.23 dB			4.310 GHz 29.64 dBm	Marker Frequency 4.309654827 GHz	Settings Peak
<b>og</b> 3.2						Marker Mode Normal	Search Pk Searc Config
23						Delta (Δ) Fixed	Properti
i.8					DL1 -19.02 dBm	off	Marker Function Marker-
			~~~~			Delta Marker (Reset Delta) Marker Table	Counter
5.8						On Off	
5.8						Marker Settings Diagram All Markers Off	
art 3.000 GHz es BW 1.0 MHz		#Video BW 3.0 M	Hz		op 10.000 GHz 0 s (2000 pts)	Couple Markers On Off	

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KEYSIGHT Input: RF Coupling: DC Align: Auto	Corrections: Off	#Atten: 0 dB PNO: F Preamp: Off Gate: 0 µW Path: Standard IF Gain Sig Tra	Off Trig: Free Run I: High	ower 123456 WWWWWW ANNNNN		
Spectrum v	Re	ef Lvi Offset 43.80 dB		1 21.598 GHz -40.17 dBm	Marker Frequency 21.597798899 GHz	Settings
9.54	Re	Pricever 19.34 dBm		-40.17 dBill	Marker Mode Normal	Peak Search Pk Searc Config
10.5				DL1 -19.02 dBm	Delta (Δ)	Propertie Marker Function
30.5					Off Delta Marker (Reset Delta)	Marker-
i0.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~	Marker Table On Off	Counter
70.5					Marker Settings Diagram All Markers Off	
tart 10.000 GHz Res BW 1.0 MHz		¥Video BW 3.0 MHz	#Swee	Stop 22.000 GHz p 20.0 s (2000 pts)	Couple Markers On Off	

Port C, Channel Position M 15.0 MHz



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum v cale/Div 10 dB		Ref LvI Offset 44.20 Ref Level 23.23 dB			4.310 GHz 30.87 dBm	Marker Frequency 4.309654827 GHz Marker Mode	Settings Peak Search
						 Normal Delta (Δ) 	Pk Sear Config
						Fixed	Properti Marker Functior
3.8 5.8					DL1-19.02 dBm	Off Delta Marker	Marker-
8.8 					~~~~	(Reset Delta) Marker Table On Off	Counter
						Marker Settings Diagram	
art 3.000 GHz es BW 1.0 MHz		#Video BW 3.0 M	Hz		op 10.000 GHz .0 s (2000 pts)	All Markers Off Couple Markers On	

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RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB PNO: Preamp: Off Gate: µW Path: Standard IF Gai Sig Tr	Off Trig: Free Ru			_
l Spectrum 🔻		Ref LvI Offset 43.80 dB		lkr1 21.592 GHz		Settings
Scale/Div 10 dB	F	Ref Level 19.54 dBm		-40.17 dBm	Marker Mode	Peak Search
					Normal	Pk Searc Config
					Delta (Δ) Fixed	Propertie
				DL1 -19.02 dBm	Off	Marker Function
					Delta Marker (Reset Delta)	Marker
40.5					Marker Table	Counter
					Off	
					Marker Settings Diagram	
					All Markers Off	
tart 10.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	#0	Stop 22.000 GHz weep 20.0 s (2000 pts)		

Port C, Channel Position M 20.0 MHz



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum v	,	Ref LvI Offset 44.26 Ref Level 23.23 dB	6 dB		4.310 GHz 1.74 dBm	Marker Frequency 4.309654827 GHz	Settings Peak
3.2						Marker Mode Normal 	Search Pk Sear Config
						Delta (Δ) Fixed	Properti Marker
.8					DL1 -19.02 dBm	Off Delta Marker	Function
				~~~~~		(Reset Delta) Marker Table On	Counter
						Off Marker Settings Diagram	
nrt 3.000 GHz es BW 1.0 MHz		#Video BW 3.0 Mi	Hz		p 10.000 GHz 0 s (2000 pts)	All Markers Off Couple Markers On	

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LL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB PNO: Preamp: Off Gate: µW Path: Standard IF Ga Sig Ti	Off Trig: Free Ru		Marker 1	
Spectrum v		Ref LvI Offset 43.80 dB	M	lkr1 21.574 GHz		Settings
cale/Div 10 dB		Ref Level 19.54 dBm		-40.13 dBm	Marker Mode	Peak Search
9.54					<ul> <li>Normal</li> </ul>	Pk Searc
).46					Delta (Δ)	Config
						Propertie
				DL1 -19.02 dBm	Fixed	Marker
				DE1 -19.02 dBm	Off	Function
					Delta Marker	Marker-
				<b>1</b>	(Reset Delta)	Counter
					Marker Table On	
					Off	
					Marker Settings Diagram	
					All Markers Off	
tart 10.000 GHz		#Video BW 3.0 MHz		Stop 22.000 GHz	Couple Markers	
Res BW 1.0 MHz		#VIGEO BW 3.0 MHZ	#S	weep 20.0 s (2000 pts)		

### Configuration WCDMA+LTE-MIMO-MC-1 (1WCDMA 16QAM +1LTE QPSK)

Channel Bandwidth	RBW	Limit
	(MHz)	(dBm)
W: 5.0 MHz	1.0	-19.02
L: 5.0 MHz	1.0	-19.02
W: 5.0 MHz	1.0	-19.02
L: 10.0 MHz	1.0	-19.02
W: 5.0 MHz	1.0	-19.02
L: 15.0 MHz	1.0	-19.02
W: 5.0 MHz	1.0	-19.02
L: 20.0 MHz	1.0	-19.02

### Port C, Channel Position B, LTE 5.0 MHz



# No.I18Z60287-WMD01 Page167of259



KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off G µW Path: Standard IF	'NO: Fast Sate: Off F Gain: Low ig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum v		Ref Lvi Offset 44.26 o Ref Level 23.23 dBm	<u> </u>		4.355 GHz 30.79 dBm	4.000 177000 0112	Settings Peak
13 2 6 77 16.8					DL1 -19 02 JBm	Marker Mode Normal Delta (Δ) Fixed Off	Peak Search Pk Searc Config Propertie Marker Function
	1		~~~~			Delta Marker (Reset Delta) Marker Table Off Marker Settings Diagram	Marker→ Counter
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	2		op 10.000 GHz I.0 s (2000 pts)	All Markers Off Couple Markers On Off	

Spectrum Analyzi Swept SA	er 1 ,	+					Marker	- * 崇
	nput: RF Coupling: DC Nign: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum Scale/Div 10 dB	T		ef Lvi Offset 43.80 ef Level 19.54 dB			1.562 GHz 10.16 dBm	Marker Frequency 21.561780890 GHz Marker Mode	Settings Peak
9.54							<ul> <li>Normal</li> </ul>	Search Pk Search Config
							Delta (∆) Fixed	Properties
						DL1 -19.02 dBm	off	Marker Function Marker→
-30.5						1	Delta Marker (Reset Delta) Marker Table	Counter
-50.5							On Off	
							Diagram All Markers Off	
Start 10.000 GHz Res BW 1.0 MH			#Video BW 3.0 MI	Hz		op 22.000 GHz 0 s (2000 pts)	Couple Markers On Off	
<b>ま</b> って		Mar 13, 2018 4:24:45 PM						

Port C, Channel Position M, LTE 5.0 MHz



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KEYSIGHT RL Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum 🔻		Ref LvI Offset 44.26			4.376 GHz 0.03 dBm	Marker Frequency 4.376188094 GHz	Settings
ccale/Div 10 dB .og 13 2 3 23 6 77 16 8 26 8	, 1	Ref Level 23.23 dBi			0L1-19.02 dBm	Marker Mode Normal Detta (Δ) Fixed Off Detta Marker (Reset Detta) Marker Table Off	Peak Search Pk Searc Config Propertie Marker Function Marker→ Counter
46.8 56.8 tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz		op 10.000 GHz 0 s (2000 pts)	All Markers Off Couple Markers Off Ong	

LEYSIGHT Input: RF Coupling: Align: Aut	DC Corrections: Off Freq Ref: Int (S NFE: Adaptive		Avg Type: Log-Power 12345 ( Trig: Free Run	Marker 1	
Spectrum v cale/Div 10 dB		Ref Lvi Offset 43.80 dB Ref Level 19.54 dBm	Mkr1 21.592 GHz -40.15 dBm		Settings Peak
0 <b>9</b> 1.54 1.46 0.5				<ul> <li>Normal</li> <li>Delta (Δ)</li> <li>Fixed</li> </ul>	Search Pk Searc Config Propertie Marker
			DL1 -19 02 dBr	Off Delta Marker (Reset Delta)	Function Marker—
0.5	~~~~			Marker Table On Off Marker Settings Diagram	Counter
70.5 tart 10.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	Stop 22.000 GH: #Sweep 20.0 s (2000 pts		

Port C, Channel Position T, LTE 5.0 MHz



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KEYSIGHT Input: RF RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
I Spectrum v		Ref LvI Offset 44.20 Ref Level 23.23 dB	6 dB		4.394 GHz 29.38 dBm	Marker Frequency 4.393696848 GHz	Settings Peak
13.2						Marker Mode Normal Delta (Δ)	Search Pk Searc Config
					ÐL1 -19.02 uBm	Fixed	Propertie Marker Function
	1			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Delta Marker (Reset Delta) Marker Table On	Marker Counter
						All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz		op 10.000 GHz .0 s (2000 pts)	Couple Markers On Off	

Spectrum Analyz Swept SA	er 1 🔻	+					Marker	- 7 景
	nput: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Po Trig: Free Run	ower 123456 WWWWWW ANNNNN		
1 Spectrum Scale/Div 10 dB	<b>.</b>		tef LvI Offset 43.8 tef Level 19.54 dB		Mkr	1 21.592 GHz -40.16 dBm	21.001700000 0112	Settings Peak
9.54							Marker Mode Normal	Search Pk Search
							Delta (Δ)	Config Properties
						DL1 -19.02 dBm	Fixed	Marker Function
						.1	Delta Marker (Reset Delta)	Marker→
40.5	~~~~~					~	Marker Table On	Counter
							Off Marker Settings Diagram	
							All Markers Off	
tart 10.000 GH: Res BW 1.0 MH			#Video BW 3.0 M	Hz	#Swee	Stop 22.000 GHz ep 20.0 s (2000 pts)	Couple Markers On Off	
1		Mar 13, 2018 4:34:28 PM	$\square \triangle$					

Port C, Channel Position B, LTE 10.0 MHz



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KEYSIGHT RL Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN		
I Spectrum		Ref LvI Offset 44.26 Ref Level 23.23 dB			4.352 GHz 32.90 dBm	Marker Frequency 4.351675838 GHz Marker Mode	Settings Peak Search
						Normal Delta (Δ) Fixed Off	Pk Searci Config Propertie Marker Function
26.8 36.8 46.8 56.8	1			<u> </u>		Delta Marker (Reset Delta) Marker Table Off Marker Settings Diagram	Marker→ Counter
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 Mi	Hz		op 10.000 GHz 0 s (2000 pts)	All Markers Off Couple Markers On Off	



Port C, Channel Position M, LTE 10.0 MHz



## No.I18Z60287-WMD01 Page171of259



1 Spectrum Ref Lvi Offset 44.26 dB Mkr1 4.369 GHz Scale/Div 10 dB Ref Level 23.23 dBm -31.86 dBm 132 	RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
.00g     Marker Mode     Set       13.2	I Spectrum 🔻			dB				Settings
46.6 66.8 0 off Marker Table 0 off Marker Settings Diagram		, , , , , , , , , , , , , , , , , , , ,					<ul> <li>Normal</li> <li>Delta (Δ)</li> <li>Fixed</li> <li>Off</li> <li>Delta Marker</li> </ul>	Peak Search Pk Searc Config Propertie Marker Function Marker→
	46.8		····				Marker Table On Off Marker Settings Diagram All Markers Off	Counter

Spectrum Analy Swept SA	yzer 1 💡	+					Marker	· *
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Powe Trig: Free Run	er 123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum Scale/Div 10 d	T IB		ef Lvi Offset 43.8 ef Level 19.54 dB			21.568 GHz -40.16 dBm		Settings Peak
9.54							Marker Mode  Normal	Search Pk Search Config
-0.46							Delta (Δ) Fixed	Properties
-10.5						DL1 -19.02 dBm	Off	Marker Function
-30.5						<b>1</b>	Delta Marker (Reset Delta)	Marker→ Counter
-40.5	~~~~~						Marker Table On Off	Counter
-60.5							Marker Settings Diagram	
Start 10.000 G			#Video BW 3.0 M	Hz		Stop 22.000 GHz	All Markers Off Couple Markers On	
#Res BW 1.0 M		Mar 13, 2018 4:41:09 PM	ÐA		#Sweep	20.0 s (2000 pts)	Off	

Port C, Channel Position T, LTE 10.0 MHz



## No.I18Z60287-WMD01 Page172of259



RL Align	it: RF pling: DC n: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNN	Select Marker Marker 1	
I Spectrum	۲		Ref LvI Offset 44.26 Ref Level 23.23 dB			4.390 GHz 31.11 dBm	Marker Frequency 4.390195098 GHz	Settings Peak
13 2 3 23 6 77 16 8 26 8 38 8 46 8						- 8L1-19.02 uBm	Marker Mode Normal Detta (Δ) Fixed Off Detta Marker (Reset Detta) Marker Table Off Off	Search Pk Searc Config Propertie Marker Function Marker→ Counter
56 8 56 8 tart 3.000 GHz Res BW 1.0 MHz		Mar 13, 2018	#Video BW 3.0 Mi	Hz		op 10.000 GHz .0 s (2000 pts)	All Markers Off Couple Markers On Off	

Spectrum Analy Swept SA	zer 1 💡	+					Marker	- * 条
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum Scale/Div 10 dl	v B		tef Lvi Offset 43.8 tef Level 19.54 dB			21.592 GHz 40.16 dBm	Marker Frequency 21.591795898 GHz Marker Mode	Settings Peak
9.54							Normal	Search Pk Search Config
							Delta (Δ) Fixed	Properties
						DL1 -19.02 dBm	off	Marker Function
						<b>∳</b> 1	Delta Marker (Reset Delta)	Marker→ Counter
-50.5				~~~~~			Marker Table On Off	Counter
							Marker Settings Diagram	
Start 10.000 GF			#Video BW 3.0 M	Hz		op 22.000 GHz	All Markers Off Couple Markers On	
#Res BW 1.0 M		Mar 13, 2018 4:49:39 PM	$\square \triangle$		#Sweep 20	0.0 s (2000 pts)	Off	

Port C, Channel Position B, LTE 15.0 MHz



## No.I18Z60287-WMD01 Page173of259



KEYSIGHT Input: RF RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off G µW Path: Standard IF	Gate: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNN	Select Marker Marker 1	
I Spectrum v		Ref LvI Offset 44.26 o Ref Level 23.23 dBm	dB		.345 GHz 3.37 dBm	Marker Frequency 4.344672336 GHz	Settings Peak
13 2 3 23 6.77 16.8					DL1 -19 02 uBm	Marker Mode Normal Delta (Δ) Fixed Off	Peak Search Pk Searc Config Propertie Marker Function Marker→
26.8 46.8 56.8 56.8						Delta Marker (Reset Delta) Marker Table Off Marker Settings Diagram All Markers Off	Counter
tart 3.000 GHz Res BW 1.0 MHz	Mar 14, 2018	#Video BW 3.0 MHz			p 10.000 GHz 0 s (2000 pts)	Couple Markers On Off	

pectrum Analyzer 1	+					C Marker	- 7 影
EYSIGHT Input: RF L Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Pov Trig: Free Run	ver 123456 WWWWWW ANNNNN		
Spectrum v cale/Div 10 dB		tef Lvi Offset 43.80 tef Level 19.54 dBr		Mkr1	21.610 GHz -40.44 dBm	Marker Frequency 21.609804902 GHz Marker Mode	Settings Peak
og 0.54						Normal	Search Pk Search Config
						Delta (Δ) Fixed	Properties
					DL1 -19.02 dBm	Off	Marker Function
					<b>▲</b> 1	Delta Marker (Reset Delta)	Marker→
i0.5						Marker Table On Off	Counter
						Marker Settings Diagram	
10.5		#Video BW 3.0 Mi	Hz		Stop 22.000 GHz	All Markers Off Couple Markers	
Res BW 1.0 MHz	Mar 14, 2018			#Sweep	20.0 s (2000 pts)	On Off	

Port C, Channel Position M, LTE 15.0 MHz



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KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
I Spectrum v		Ref LvI Offset 44.26 Ref Level 23.23 dB	6 dB		4.366 GHz 32.41 dBm	4.000002041 0112	Settings Peak
0.0						Marker Mode Normal Delta (Δ) Fixed Off	Search Pk Searc Config Propertie Marker Function
16.8 16.8 16.8 16.8	1					Delta Marker (Reset Delta) Marker Table On Off Marker Settings Diagram	Marker→ Counter
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz		top 10.000 GHz 0.0 s (2000 pts)	All Markers Off Couple Markers On Off	

Spectrum Analyze Swept SA	r 1	+					Marker	· · 宗
	put: RF oupling: DC ign: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	Avg Type: Log-Powe Trig: Free Run	f <b>123456</b> WWWWWW ANNNNN		
1 Spectrum Scale/Div 10 dB	•		tef Lvi Offset 43.80 tef Level 19.54 dB			21.592 GHz -40.30 dBm	21.001700000 0112	Settings Peak
9.54							Marker Mode  Normal	Search Pk Search
							Delta (Δ)	Config Properties
						DL1 -19.02 dBm	Fixed	Marker Function
						1	Delta Marker (Reset Delta)	Marker→
50.5							Marker Table On Off	Counter
							Marker Settings Diagram	
							All Markers Off	
Start 10.000 GHz Res BW 1.0 MHz			#Video BW 3.0 Mi	Hz		Stop 22.000 GHz 20.0 s (2000 pts)	Couple Markers On Off	
<u>ר</u>		Mar 14, 2018 9:40:39 AM						

Port C, Channel Position T, LTE 15.0 MHz



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KEYSIGHT RL Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off Ga µW Path: Standard IF	ate: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWWW ANNNNN	Select Marker Marker 1	
I Spectrum v	F	Ref LvI Offset 44.26 dl Ref Level 23.23 dBm			4.387 GHz 1.81 dBm	4.00000000 TOTAL	Settings Peak
.00						Marker Mode Normal Delta (Δ) Fixed Off	Peak Search Pk Searc Config Propertie Marker Function Marker→
16.8 16.8 16.8 16.8 16.8 16.8						Delta Marker (Reset Delta) Marker Table Off Off Marker Settings Diagram All Markers Off	Counter
tart 3.000 GHz Res BW 1.0 MHz	• Mar 14, 2018	#Video BW 3.0 MHz			p 10.000 GHz 0 s (2000 pts)	Couple Markers On Off	



Port C, Channel Position B, LTE 20.0 MHz

