No.I18Z61058-WMD02 Page168of233



KEYSIGHT Input: RF R L Coupling: DC Align: Auto	Corrections: Off Preamp: Off Gat Freq Ref: Int (S) µW Path: Standard #IF		Marker 1
1 Spectrum v	Ref Lvi Offset 49.90 dE Ref Lvi Offset 49.90 dE	Mkr1 21.592 GH -34.00 dBn	Peak
17.1		0L1-19 02 404	Marker Mode Search Normal Pk Searc Config Fixed Propertie Fixed Marker (Reset Delta) Rarker
42.9 52.9 62.9 Start 10.000 GHz Res BW 1.0 MHz	#Video BW 3.0 MHz	Stop 22.000 GH #Sweep 20.0 s (2000 pt	Marker Settings Diagram All Markers Off Couple Markers

Port B, Channel Position T 15.0 MHz



Spectrum Analyzer 1 Swept SA	+					Marker	· · · 宗
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: Power (RM: Trig: Free Run	5 <mark>123456</mark> WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum V		Ref LvI Offset 42.8	3 dB		4.345 GHz	Marker Frequency 4.344672336 GHz	Settings
Scale/Div 10 dB		Ref Level 21.50 dB	m		31.70 dBm	Marker Mode	Peak Search
						 Normal Delta (Δ) 	Pk Search Config
						Fixed	Properties
18.50					DL1 -19.02 dBm	Off	Marker Function
28.5	1					Delta Marker	Marker→
38.5					~~~~	(Reset Delta) Marker Table	Counter
48.5						On Off	
						Karker Settings Diagram	
						All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz		op 10.000 GH; .0 s (2000 pts	Couple Markers On	
	? Jul 20, 2018					Off	

No.I18Z61058-WMD02 Page169of233



RL Align: Auto		#Atten: 0 dB #PNO: Fa Preamp: Off Gate: Off µW Path: Standard #IF Gain: Sig Track:	Trig: Free Run	W Marker 1	
1 Spectrum v	R	ef LvI Offset 49.90 dB ef Level 27.07 dBm	Mkr1 21.592 GF -33.96 dB	21.591795898 GHz	Settings Peak
Log			Q(1-19 32 d	Marker Mode Normal Detta (Δ) Fixed Off Detta Marker (Reset Detta)	Search Pk Searc Config Propertie Marker Function Marker Counter
Start 10.000 GHz Res BW 1.0 MHz	? Jul 20, 2018	#Video BW 3.0 MHz	Stop 22.000 G #Sweep 20.0 s (2000 p		

Port B, Channel Position B 20.0 MHz



Spectrum Analyzer 1 Swept SA	+				Marker	- 1 😤
RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run A N N N N	W Marker 1	
1 Spectrum	F	Ref Lvi Offset 42.8	3 dB	Mkr1 4.240 GH	Marker Frequency 4.239619810 GHz	Settings
Scale/Div 10 dB	F	Ref Level 21.50 dB	lm	-35.51 dB	Marker Mode	Peak Search
					 Normal Delta (Δ) 	Pk Search Config
8.50					Fixed	Properties
-8.50				DL1-19.02 dt		Marker Function
28.5					Delta Marker	Marker→
38.5					(Reset Delta) Marker Table	Counter
					On Off	
					Marker Settings Diagram	
					All Markers Off Couple Markers	
Start 3.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 M	IHz	Stop 10.000 G #Sweep 20.0 s (2000 p		
4 h C 🗆	? Jul 11, 2018 10:40:40 AM					

No.I18Z61058-WMD02 Page170of233



KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 Trig: Free Run	Marker 1	
Spectrum •		Ref Lvi Offset 49.9	0 dB	Mkr1 21.598 (-34.15 d		Settings
Scale/Div 10 dB		Ref Level 27.07 dE	sm	-34.15 0	Marker Mode	Peak Search
					Delta (Δ)	Pk Sear Config
					Fixed	Properti
					Off	Marker Functior
				DL1 -19.0	Delta Marker	Marker-
2.9					(Reset Delta) Marker Table	Counter
12.9					On Off	
					Marker Settings Diagram	
					All Markers Off	
tart 10.000 GHz Res BW 1.0 MHz		#Video BW 3.0 N	lHz	Stop 22.000 #Sweep 20.0 s (2000		

Port B, Channel Position M 20.0 MHz



Spectrum Analyzer 1 Swept SA	+					Marker	
RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off Ge µW Path: Standard #I	NO: Fast ate: Off F Gain: Low g Track: Off	#Avg Type: Power (RI Trig: Free Run	MS <mark>123456</mark> WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum 🔻		Ref Lvi Offset 42.83 d	-		4.289 GHz	Marker Frequency 4.288644322 GHz	Settings
Scale/Div 10 dB		Ref Level 21.50 dBm			-34.49 dBm	Marker Mode	Peak Search
						 Normal Delta (Δ) 	Pk Search Config
						Fixed	Properties
-8.50					DL1 -19.02 dBm	Off	Marker Function
-28.5	1					Delta Marker	Marker→
38.5					~~~~	(Reset Deita) Marker Table	Counter
						On Off	
						Marker Settings Diagram	
						All Markers Off	
Start 3.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 MHz			top 10.000 GH: 0.0 s (2000 pts	Couple Markers On Off	
4 5 C -	? Jul 20, 2018 2:06:18 PM	\Box					

No.I18Z61058-WMD02 Page171of233



KEYSIGHT RL Coupling: DC Align: Auto	Corrections: Off	#Atten: 0 dB #PNO: Fast Preamp: Off Gate: Off µW Path: Standard #IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A N N N N N	
1 Spectrum v	Re	of LvI Offset 49.90 dB	Mkr1 21.586 GHz -33.97 dBm	Peak
Log			0L1 -19 02 eBn	Marker Mode Search Normal Pk Sear Config Delta (Δ) Properti Fixed Marker Off Function Delta Marker (Reset Delta)
32.9		EVideo BW 3.0 MHz	Stop 22.000 GH	Marker Table On Off Marker Settings Diagram All Markers Off

Port B, Channel Position T 20.0 MHz



Spectrum Analyzer 1 Swept SA	+					Marker	- #
RL Coupling: DC 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: Low Sig Track: Off		2 3 4 5 6 *****	Select Marker Marker 1	
1 Spectrum		Ref Lvi Offset 42.83	dB	Mkr1 4.3	41 GHz	Marker Frequency 4.341170585 GHz	Settings
Scale/Div 10 dB		Ref Level 21.50 dBn	n	-32.1	73 dBm	Marker Mode	Peak Search
						 Normal Delta (Δ) 	Pk Search Config
						Fixed	Properties
				DL	<u>1 -19.02 dBm</u>	off	Marker Function
-28.5	1					Delta Marker	Marker→
-38.5		~~~~~	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	(Reset Delta) Marker Table On	Counter
						Off Marker Settings	
						Diagram	
						All Markers Off Couple Markers	
Start 3.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 MH	iz	Stop 1 #Sweep 20.0 s	0.000 GHz (2000 pts	On Off	
- n C	? Jul 20, 2018 2:11:46 PM	\Box					

No.I18Z61058-WMD02 Page172of233



RL Coupling: DC Align: Auto	Corrections: Off Prea	en:0 dB #PNO:Fast amp:Off Gate:Off Path:Standard #IF Gain:Low Sig Track:Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run	Select Marker Marker 1	
1 Spectrum v Scale/Div 10 dB	Ref L	vi Offset 49.90 dB evel 27.07 dBm	Mkr1 21.592 GHz -33.96 dBm		Settings Peak
Log			0(1-19.02 dBr	Normal Detta (Δ) Fixed Off Detta Marker (Reset Detta) Marker Table Off Marker Table Off Marker Settings All Markers Off	Search Pk Searcl Config Properties Marker Function Marker→ Counter
Start 10.000 GHz #Res BW 1.0 MHz	#Vic	ieo BW 3.0 MHz	Stop 22.000 GHz #Sweep 20.0 s (2000 pts	O sura la Mandrana	

Configuration NB-IoT-GuardBand-1C, QPSK

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

Port B, Channel Position B 10.0 MHz



No.I18Z61058-WMD02 Page173of233



	ing: DC Cr Auto Fr	put Z: 50 Ω orrections: Off req Ref: Ext (S) FE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Standa	PNO: F Gate: C ard IF Gain Sig Tra	Off 1: Low	#Avg Type: Po Trig: Free Rur		123456 WWWWWW ANNNNN	Select Marker Marker 1	
I Spectrum Scale/Div 10 dB	•		ef Lvi Offset 42 ef Level 21.50			I		4.229 GHz 4.21 dBm	Marker Frequency 4.229114557 GHz	Settings Peak
		ĸ	ler Level 21.50	ивп			~	4.21 001	Marker Mode	Search
									 Normal 	Pk Searc Config
									Delta (Δ)	Propertie
									Fixed	Marker
								DL1 -19.02 dBm	Off	Function
	•1								Delta Marker (Reset Delta)	Marker→
48.5		~~~~			~~~~	~~~~	~~~	~~~~	Marker Table On Off	Counter
									Marker Settings Diagram	
									All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz				p 10.000 GH; 0 s (2000 pts	Couple Markers On Off	

vept SA	+					\$	Marker 🔻 📮
EYSIGHT Input: RF L Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	4S <mark>123456</mark> WWWWWW ANNNNN		
Spectrum 🔻	F	Ref LvI Offset 49.9	- 0 dB		21.592 GHz	21.0017000.	98 GHz
cale/Div 10 dB		Ref Level 27.07 dB	m		-34.17 dBm	Marker Mode	e Peak Search
						 Normal 	Pk Searc Config
						Delta (∆)	Propertie
						Fixed	Marker
					DL1 -19.02 dBm	Off	Function
2.9					. 1	Delta Ma (Reset D	
					[!]	Marker Table On	Countor
						Off	
						K Marker Se Diagra	
						All Marke	ers Off
art 10.000 GHz les BW 1.0 MHz		#Video BW 3.0 M	Hz		top 22.000 GH; 0.0 s (2000 pts		ers

Port B, Channel Position M 10.0 MHz



No.I18Z61058-WMD02 Page174of233



RL Align: Aut			f Trig: Free Run : Low	wer (RMS <mark>1</mark> 23456 WWWWWW ANNNNN		
I Spectrum v		Ref Lvi Offset 42.83 dB Ref Level 21.50 dBm	1	Mkr1 4.289 GHz -33.02 dBm	TECCOTTOLE OF IL	Settings Peak
11.5 1.50 18.50 28.50				DL1 -19.02 dBr	Marker Mode Normal Delta (Δ) Fixed Off	Peak Search Pk Searci Config Propertie Marker Function Marker→
48.5	J	······			Delta Marker (Reset Delta) Marker Table Off Marker Settings Diagram All Markers Off	Counter
Start 3.000 GHz Res BW 1.0 MHz	Jul 20, 2018 2:16:25 PM	#Video BW 3.0 MHz	#SV	Stop 10.000 GH; weep 20.0 s (2000 pts		

pectrum Analyzer 1 wept SA	+					*	Marker	- 1 E
EYSIGHT Input: RF L 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: Low Sig Track: Off	#Avg Type: Powe Trig: Free Run	r (RMS <mark>123456</mark> W W W W W A N N N N N	Select Mark Marker 1	er	
Spectrum v		Ref Lvi Offset 49.9	0 dB	Mkr	1 21.562 GHz -33.97 dBm			Settings
cale/Div 10 dB		Ref Level 27.07 dB	Im		-33.97 000	Marker Mo	de	Peak Search
						 Normal 		Pk Searc Config
						Delta (/	7)	Propertie
						Fixed		Marker Function
2.9					DL1 -19.02 dBm	Off		Marker-
2.9					1	(Rese	Marker t Delta)	Counter
2.9						Marker Tab On Off	le	
							Settings gram	
						All Mar	kers Off	
art 10.000 GHz les BW 1.0 MHz		#Video BW 3.0 M	Hz	#Swee	Stop 22.000 GHz p 20.0 s (2000 pts		rkers	
	? Jul 20, 2018 2:16:49 PM					Off		

Port B, Channel Position T 10.0 MHz



No.I18Z61058-WMD02 Page175of233



KEYSIGHT Input: RF RL Align: Au	DC Corrections: OI		Trig: Free Run Low	er (RMS <mark>1</mark> 23456 WWWWWW ANNNNN	Select Marker Marker 1	
I Spectrum Scale/Div 10 dB		Ref LvI Offset 42.83 dB Ref Level 21.50 dBm	MI	kr1 4.352 GHz -30.29 dBm	4.001070000 0112	Settings Peak
-og 11.5					Marker Mode Normal	Search Pk Searc Config
					Delta (Δ) Fixed	Propertie
				DL1 -19.02 dBm	Off	Marker Function
28.5					Delta Marker (Reset Delta)	Marker→
48.5		~~~~~			Marker Table On Off	Counter
					Marker Settings Diagram	
					All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	#Swe	Stop 10.000 GHz eep 20.0 s (2000 pts		

Spectrum Analyzer 1 Swept SA	1 1 -	-					Marker	- * #
	t: RF pling: DC n: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive		#PNO: Fast Gate: Off #IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>123456</mark> WWWWWW ANNNNN	Select Marker Marker 1	,
1 Spectrum Scale/Div 10 dB	•		Ref LvI Offset 49.9 Ref Level 27.07 dB		Mk	r1 21.580 GHz -33.98 dBm	21.070700000 0112	Settings Peak
Log 17.1							Marker Mode Normal 	Search Pk Search Config
							Delta (Δ)	Properties
							Fixed Off	Marker Function
						0L1 -19.02 dBm	Delta Marker (Reset Delta)	Marker→
-32.9		~~~~~~				~~~	Marker Table On Off	Counter
							Marker Settings Diagram	
-62.9							All Markers Off Couple Markers	
Start 10.000 GHz #Res BW 1.0 MHz			#Video BW 3.0 M	Hz	#Swe	Stop 22.000 GHz eep 20.0 s (2000 pts	On Off	
= っ つ	2	Jul 20, 2018 2:19:14 PM	\square					

Port B, Channel Position B 15.0 MHz



No.I18Z61058-WMD02 Page176of233



KEYSIGHT Input: RF RL Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB PNO Preamp: Off Gate µW Path: Standard IF Ga Sig T	: Off Trig: Free Ru	Power (RMS 1 2 3 4 5 6 un W W W W W A N N N N N		
I Spectrum v		Ref LvI Offset 42.83 dB Ref Level 21.50 dBm		Mkr1 4.236 GHz -35.05 dBm	4.200110000 0112	Settings Peak
11.5					Marker Mode Normal 	Search Pk Searcl
					Delta (Δ)	Config Propertie
				DL1 -19.02 dBm	Fixed Off	Marker Function
	1				Delta Marker (Reset Delta)	Marker→
18.5					Marker Table On Off	Counter
					Marker Settings Diagram	
					All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	#9	Stop 10.000 GHz Sweep 20.0 s (2000 pts		



Port B, Channel Position M 15.0 MHz



No.I18Z61058-WMD02 Page177of233



KEYSIGHT Input: RF R L Align: Aut	f Preamp: Off Gate:) µW Path: Standard #IF G	Off Trig: Free Rur	ower (RMS <mark>1</mark> 23456 WWWWWW ANNNN		
I Spectrum v Scale/Div 10 dB	Ref LvI Offset 42.83 dB Ref Level 21.50 dBm	1	Mkr1 4.289 GHz -33.88 dBm	TECCOTICE ONE	Settings Peak
.og 11.5				Marker Mode Normal	Search Pk Searc Config
8.50				Delta (Δ)	Propertie
			DL1 -19.02 dBm	off	Marker Function
28.5				Delta Marker (Reset Delta)	Marker→ Counter
48.5				Marker Table On Off	Counter
				Karker Settings Diagram	
				All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz	#Video BW 3.0 MHz	#S1	Stop 10.000 GH2 weep 20.0 s (2000 pts		

pectrum Analyzer 1 Wept SA	+			Marker	- 1 E
RL Align: Auto	Corrections: Off Pre	tten: 0 dB #PNO: Fast eamp: Off Gate: Off / Path: Standard #IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A N N N N N	Select Marker Marker 1	
Spectrum v	Refi	vi Offset 49.90 dB	Mkr1 21.592 GHz -33.88 dBm	21.001700000 0112	Settings Peak
.og				Marker Mode Normal	Search Pk Searc Config
				Delta (Δ)	Propertie
				off	Marker Function
2.9			1	Delta Marker (Reset Delta) Marker Table	Marker Counter
12.9				On Off	
				Marker Settings Diagram All Markers Off	
tart 10.000 GHz Res BW 1.0 MHz	#V	ideo BW 3.0 MHz	Stop 22.000 GH: #Sweep 20.0 s (2000 pts	Couple Markers On	
1901	? Jul 20, 2018	\wedge		Off	

Port B, Channel Position T 15.0 MHz



No.I18Z61058-WMD02 Page178of233



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off Gate µW Path: Standard #IF	e:Off ∏riç	vg Type: Power g: Free Run	r (RMS <mark>123456</mark> W W W W W A N N N N N	Select Marker Marker 1	
Spectrum v cale/Div 10 dB		Ref LvI Offset 42.83 dB Ref Level 21.50 dBm		Mk	r1 4.345 GHz -31.81 dBm	4.044072000 0112	Settings Peak
og 11.5						Marker Mode Normal	Search Pk Search Config
						Delta (Δ) Fixed	Properties
					DL1 -19.02 dBm	Off	Marker Function
28.5	1					Delta Marker (Reset Delta)	Marker→ Counter
18.5					~~~~~	Marker Table On Off	Counter
						Marker Settings Diagram	
						All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz		#Swee	Stop 10.000 GHz p 20.0 s (2000 pts	All Markers Off Couple Markers	

Spectrum Analyzer 1 Swept SA	1 - -	F					*	Marker	- * 影
	t: RF pling: DC n: 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: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>123456</mark> WWWWWW ANNNNN	Select Mark Marker 1		
1 Spectrum Scale/Div 10 dB	T		Ref LvI Offset 49.9 Ref Level 27.07 dB		Mk	r1 21.610 GHz -33.88 dBm	21.003004	902 GHz	Settings Peak
17.1							Marker Moo	le	Search Pk Search
							● Delta (∆		Config Properties
							Fixed Off		Marker Function
						DL1 -19.02 dBm	Delta M (Reset		Marker→
42.9						~~~	Marker Tabl On Off	e	Counter
							Marker S Diag		
							All Mark Couple Mar		
Start 10.000 GHz #Res BW 1.0 MHz			#Video BW 3.0 M	Hz	#Swe	Stop 22.000 GH; eep 20.0 s (2000 pts	On Off	kers	
ר ה	2?	Jul 20, 2018 2:26:52 PM	$\supset \triangle$						

Port B, Channel Position B 20.0 MHz



No.I18Z61058-WMD02 Page179of233



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	ate: Off 1	#Avg Type: Power (R frig: Free Run	MS <mark>123456</mark> WWWWWW ANNNNN	Select Marker Marker 1	
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 42.83 c Ref Level 21.50 dBm	iB		4.240 GHz -35.46 dBm		Settings Peak
-og 11.5						Marker Mode Normal	Search Pk Searcl Config
8.50						Delta (Δ) Fixed	Propertie
					DL1 -19.02 dBm	Off	Marker Function Marker→
88.5	1			A		Delta Marker (Reset Delta)	Counter
48.5						Marker Table On Off	Counter
						Marker Settings Diagram	
						All Markers Off	
tart 3.000 GHz Res BW 1.0 MHz		#Video BW 3.0 MHz	2		Stop 10.000 GHz 20.0 s (2000 pts	Couple Markers On Off	



Port B, Channel Position M 20.0 MHz



No.I18Z61058-WMD02 Page180of233



	ut: RF upling: DC In: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 6 dB Preamp: Off µW Path: Stan	#PNO: Gate: C dard #IF Gai Sig Tra	off n: Low	#Avg Type: Po Trig: Free Rur	wer (RMS 1	123456 WWWWWW ANNNNN	Select Marke Marker 1		
Spectrum	۲		Ref LvI Offset 4 Ref Level 21.50					4.289 GHz 4.26 dBm	4.20004401	22 GHz	Settings Peak
11.50									Marker Mod Normal Delta (Δ		Search Pk Search Config Propertie
								DL1 -19.02 dBm	Fixed Off Delta N	Aarkor	Marker Function Marker→
8.5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~		~~~~	<u> </u>	~~~		(Reset Marker Tabl On Off	Delta)	Counter
									Marker S Diag	ram	
tart 3.000 GHz Res BW 1.0 MHz			#Video BW 3	0 MHz		#9		op 10.000 GHz 0 s (2000 pts	All Mark Couple Mar On Off		

EYSIGHT Input: RF L Align: Auto	C Input Z: 50 Ω C Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	#PNO: Fast Gate: Off #IF Gain: Low Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS <mark>123456</mark> WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum v cale/Div 10 dB		Ref Lvi Offset 49.90 Ref Level 27.07 dBr	dB		21.586 GHz -33.94 dBm	Marker Frequency 21.585792896 GHz Marker Mode	Settings Peak Search
7.1 .07 .93 2.9						 Normal Delta (Δ) Fixed Off 	Pk Searc Config Propertie Marker Function
2.9 2.9 2.9 2.9 2.9 2.9 2.9					0L1-19.02 dBm	Delta Marker (Reset Delta) Marker Table Off Marker Settings Diagram	Marker-
2.9 art 10.000 GHz es BW 1.0 MHz		#Video BW 3.0 MH	łz		Stop 22.000 GHz 20.0 s (2000 pts	All Markers Off Couple Markers On Off	

Port B, Channel Position T 20.0 MHz



No.I18Z61058-WMD02 Page181of233



	put: RF pupling: DC ign: 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 I #IF Gain: Low Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS <mark>1</mark> 23456 W WWW W ANNNNN	Select Marker Marker 1	
Spectrum	v		Ref Lvi Offset 42.8 Ref Level 21.50 dE			4.341 GHz -32.58 dBm	4.041110000 0112	Settings Peak
Log 11.5 1.50 1.50 18.5 28.5 38.5 48.5		· · · · · · · · · · · · · · · · · · ·				DI 1 - 19 02 dBm	Marker Mode Normal Delta (Δ) Fixed Off Delta Marker (Reset Delta) Marker Table On Off	Search Pk Searc Config Propertie Marker Function Marker → Counter
58 5 58 5 tart 3.000 GHz Res BW 1.0 MHz		Jul 20. 2018	#Video BW 3.0 M	1Hz		Stop 10.000 GH; 20.0 s (2000 pt;	All Markers Off Couple Markers Off	

mopt on	+					🛟 Mark	"' 🗋
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: Low Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS <mark>1</mark> 23456 WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum v cale/Div 10 dB		Ref LvI Offset 49.9 Ref Level 27.07 dB	0 dB	Mkr1	21.604 GHz -33.92 dBm	21.000001301 01.	2 Settings Peak
						Marker Mode Normal	Search Pk Searc
						🔵 Delta (Δ)	Config Propertie
.93						Fixed Off	Marker Function
					DL1 -19.02 dBm	Delta Marker	Marker-
2.9						(Reset Deita) Marker Table On	Counter
						Off Marker Settings Diagram	
						All Markers Off	
art 10.000 GHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz		Stop 22.000 GH; 20.0 s (2000 pts		

Configuration NB-IoT-StandAlone-1C, QPSK

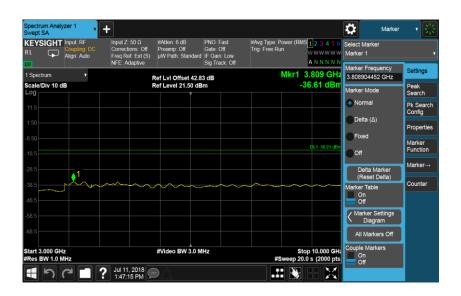
Channel Bandwidth	RBW	Limit
	(MHz)	(dBm)
250 KHz	1.0	-16.01

Port D, Channel Position B

No.I18Z61058-WMD02 Page182of233



L Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S) NFE: Adaptive	#Atten: 22 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	W +¥*	3456 WWWW NNNN		
1 Spectrum v Scale/Div 10 dB		Ref LvI Offset 41.3 Ref Level 41.43 dB	3 dB	Mk	r1 2.663	8 GHz 8 dBm		Settings Peak
31.4 11.4 1.43							Marker Mode Normal Delta (Δ) Fixed Off	Peak Search Pk Searc Config Propertie Marker Function
18 6					0L1 ↓1	-16.01 dBm	Delta Marker (Reset Delta) Marker Table On Off	Marker→ Counter
38.6 48.6 tart 3 kHz Res BW 1.0 MHz		#Video BW 3.0 M	Hz	#Sv	Stop 3. veep 20.0 s (2	000 GH; 2000 pts		





Port D, Channel Position M



L Coupling: DC Align: Auto		#PNO: Fast Gate: Off Ind #IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run A N N N N	Marker 1	_
1 Spectrum v Scale/Div 10 dB	Ref LvI Offset 41 Ref Level 41.43 d		Mkr1 2.644 3 GH -25.76 dBr		Settings Peak
Log				Marker Mode Normal Deita (Δ) Fixed Off Deita Marker	Search Pk Searci Config Propertie Marker Function Marker→
18.6 28.6 38.6 48.6				Marker Table On Off Marker Settings Diagram All Markers Off	Counter
	#Video BW 3.0	MHz	Stop 3.000 GH #Sweep 20.0 s (2000 pt		

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: Pow Trig: Free Run	er (RMS <mark>1</mark> 23456 WWWWWW ANNNNN	Select Marker Marker 1	
Spectrum 🔻		Ref LvI Offset 42.8	3 dB	М	kr1 4.289 GHz -36.12 dBm	Marker Frequency 4.288644322 GHz	Settings
cale/Div 10 dB		Ref Level 21.50 dB	m		-36.12 dBit	Marker Mode	Peak Search Pk Searc
						Delta (Δ)	Config
					DL1 -16.01 dBm	Fixed	Marker
.5						Off	Functior Marker-
.5						Delta Marker (Reset Delta) Marker Table	Counter
.5						On Off	
						Marker Settings Diagram	
art 3.000 GHz		#Video BW 3.0 M	U-7		Stop 10.000 GH;	All Markers Off Couple Markers	
tes BW 1.0 MHz		#VIGEO BVV 5.0 W	nz	#Swe	eep 20.0 s (2000 pts	On	



Port D, Channel Position T