



KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 5 Correctio Freq Ref	ns: Off	Atten: 10 dB Preamp: Off #PNO: Fast	Trig: Extern Gate: Off	Avo	nter Freq: g Hold: 1/	3.9807550	00 GHz	Center	Frequency	Settings
1 Graph				#PNU: Fasi	#IF Gain: Lo	w Rad	dio Std: N	one		3.980	755000 GHz	Settings
	•		Re	ef Lvi Offset 4	3.20 dB					Span 2.000) MHz	
Scale/Div 10.0	dB			f Value 20.00								1
Log										CF Ste	p 00 kHz	
10.0							-					L
0.00											uto an	
-10.0							-					
-20.0										Freq O	πset	
-30.0										0 Hz		-
-40.0										-		
-50.0										-		
-60.0									_	-		
-70.0										-		
Denter 2 00076			16		0. 5411-*		1		Concer O Mill			
Center 3.98075 #Res BW 510.0			VI	deo BW 5.000	JU MHZ^		#S	weep 10.0	Span 2 MH s (1001 pts			
2 Metrics								neep reie	0 (1001 pla	4		
2 Metrics												
Total Channe	el Power	-21.55 dB	3m / 1.00 M	MHz								
Total Power	Spectral Dens	sity -	81.55 dBm	n/Hz								
15		? Feb 13 11:40:3							田民			
		~										
Spectrum Ar Swept SA	halyzer 1	Spectrum A Channel Po	wer	Channe	im Analyzer 3 el Power	Swept	rum Ana t SA	yzer 4	' +	$\mathbf{\dot{\mathbf{v}}}$	Frequenc	y y 📝
KEYSIGHT	Input: RF	Input Z: 5		#Atten: 16 dB	PNO: Best V		g Type: Po	wer (RMS)	123450	Center	Frequency	Cattinge
	Coupling DC Align: Auto	Correction Freq Ref		Preamp: Off	Gate: Off IF Gain: Lov Sig Track: C	v Trig	g Hold: 1/ g: Externa	12	WWWWW NNNNI	₩ 3.981	500000 GHz	Settings
1 Spectrum	T		Pe	ef LvI Offset 4			Mkr	3.981	992 GH	Span	00000 MHz	
Scale/Div 10 d	в			of Level 43.20				-23	342 dBn		vept Span	1
Log				Y							ero Span	
33.2												
33.2											Full Span	
23.2	-	-								Start F	req	
10.0										3.9810	000000 GHz	
13.2										Stop F	ren	
3.20											000000 GHz	
										0.0020		
-6.80	-									A	JTO TUNE	
-16.8										CF Ste	n	
10.0									DL1 -21.94 c		p 30 kHz	
-26.8												1
00.0										M		
-36.8										Freq O		
-46.8										0 Hz	noet	
Constant Sector										X Axis	Scale	
Start 3.981000			#	Video BW 1.5	o MHZ*		#0		9820000 GH			
		7 Feb 13		Video BW 1.5	o MHZ*		#S	weep 10.0	s (1001 pts		n	





Configuration NR-MIMO-3C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	Frequency range (MHz)	RBW (kHz)	Limit (dBm)
	В	64QAM	20	3699-3700	200	-19.02
P	В	64QAIVI	20	3698-3699	510	-21.94
В	Ŧ	640AN4	20	3980-3981	200	-19.02
	I	64QAM	20	3981-3982	510	-21.94

Test figure as below:

Swept SA	nalyzer 1	Channel F	Analyzer 2 Power		um Analyzer 3 el Power	Spectrum A Swept SA	nalyzer 4	+	\diamond	Frequency	• • 🗦
	Input: RF Coupling: DC Align: Auto		: 50 Ω tions: Off ef: Ext (S)	Atten: 16 dB Preamp: Off #PNO: Fast	Trig: External 2 Gate: Off #IF Gain: Low	2 Center Fr Avg Hold: Radio Std		00 GHz		Frequency 00000 GHz	Settings
Graph	•			ef LvI Offset 4					Span 2.0000	MHz	
cale/Div 10.0	aB		R	ef Value 20.00	dBm				CF Step		í l
0.0								-	200.00		
0.00							-		Au Ma		
10.0									Freq Of		1
20.0									0 Hz		
10.0									-		1
50.0	-										
50.0							_				
70.0											
enter 3.69940	0 GHz	<u> </u>	#\	Video BW 1.00	000 MHz*			Span 2 MHz			
Res BW 200.0)0 kHz				an angar sa sa sa sa sa		#Sweep 10.0) s (1001 pts)			
Metrics	•										
Total Channe	el Power	-23.70 0	dBm / 1.00	MHz							
Total Power	Spectral Dens	sity	-83.70 dBi	m/Hz							
19		? Feb 1 11:54	3, 2023 18 PM								
Spectrum Al Swept SA	nalyzer 1	Channel F		Channe	um Analyzer 3 el Power	Spectrum A Swept SA		+	\$	Frequency	• • •
	Input: RF Coupling: DC Align: Auto		: 50 Ω tions: Off ef: Ext (S)	#Atten: 16 dB Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off	de Avg Type: Avg Hold: Trig: Exte	Power (RMS) 1/1 rnal 2	1 2 3 4 5 6 WWWWW NNNNN		Frequency 00000 GHz	Settings
N/ Spectrum	*		R	ef LvI Offset 4		M	(r1 3.698	973 GHz	Span 1.0000	0000 MHz	
icale/Div 10 d	в			ef Level 42.70			-26	227 dDm		ont Cnc-	
							-20.	.327 dBm		ept Span	
.og							-20.	.327 ubm		ro Span	
							-20.		Zei		
32.7									Zei	ro Span full Span	
22.7							-20.		F Start Fr	ro Span full Span	
32.7 22.7 12.7									F Start Fr	ro Span full Span eq 00000 GHz	
32.7 22.7 12.7									F Start Fr 3.6980 Stop Fr	ro Span full Span eq 00000 GHz	
32.7 22.7 12.7 2.70									F Start Fr 3.6980 Stop Fr 3.6990	ro Span iull Span eq 00000 GHz eq 00000 GHz	
22.7 22.7 12.7 2.70 7.30									Start Fr 3.6980 Stop Fr 3.6990	ro Span Full Span eq 00000 GHz eq 00000 GHz ITO TUNE	
22.7 22.7 12.7 2.70 7.30								0L1-21.94 1.	E Zel F Start Fr 3.6980 Stop Fr 3.6990 ALL CF Step	ro Span Full Span eq 00000 GHz eq 00000 GHz ITO TUNE	
22.7 22.7 2.70 7.30 17.3									Start Fr 3.6980 Stop Fr 3.6990	ro Span iull Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz	
32.7 22.7 12.7 2.70 7.30 17.3 27.3									E Zeil F Start Fr 3.6980 Stop Fr 3.6990 AU CF Step 100.00	ro Span iull Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz to	
32.7 22.7 12.7 2.70 7.30 17.3 27.3 37.3									Zeil F Start Fr 3.6980 Stop Fr 3.6990 AU CF Step 100.00 Au	ro Span iull Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz to in	
32.7 22.7 12.7 2.70 7.30 17.3 27.3 37.3									E Zeil F Start Fri 3.6980 Stop Fri 3.6990 AU CF Step 100.00	ro Span iull Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz to in	
32.7 22.7 12.7 2.70 7.30 17.3 27.3 37.3 47.3								OL1-2194 01 .	Start Fr 3.6980 Stop Fr 3.6990 AU CF Steg 100.00 Au Ma Freq Of 0 Hz X Axis S	ro Span iull Span eq 00000 GHz eq 00000 GHz itro TUNE 0 0 kHz to in fset Scale	
Log 32.7 32.7 22.7 12.7 2.70 7.30 27.3 37.3 37.3 47.3 3698000 Res BW 510 File				Video BW 1.5	MHz*		Stop 3.6		Start Fr 3.6980 Stop Fr 3.6990 AL CF Steg 100.00 Au Freq Of 0 Hz X Axis S Loo	ro Span iull Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz to n fset Scale g	
32.7 22.7 12.7 2.70 7.30 17.3 27.3 37.3 47.3 3.3 47.3	KHZ	? Feb 1 11:54	3, 2023	Video BW 1.5	MHz*		Stop 3.6	OL1-21 94 1 .	Start Fr 3.6980 Stop Fr 3.6990 AU CF Steg 100.00 Au Ma Freq Of 0 Hz X Axis S	ro Span full Span eq 000000 GHz eq 000000 GHz ITO TUNE 0 0 kHz to n fset Scale g	

Channel Position B





Swept SA	nalyzer 1	Spectrum A Channel Po	nalyzer 2 wer	Spectru Channe	um Analyzer 3 el Power	Spectrum A Swept SA	nalyzer 4	+	$\mathbf{\hat{\mathbf{v}}}$	Frequenc	y v 💦
KEYSIGHT +→-	Input: RF Coupling: DC Align: Auto	Input Z: 5 Correction Freq Ref	ons: Off	Atten: 10 dB Preamp: Off #PNO: Fast	Trig: External Gate: Off #IF Gain: Low	Avg Hold	req: 3.98060000 : 1/1 d: None	0 GHz		Frequency 600000 GHz	Settings
Graph	T		R	ef LvI Offset 4	43 20 dB				Span 2.000	0 MHz	
cale/Div 10.0	dB			of Value 20.00							1
og									CF Ste	ep 00 kHz	
10.0										uto	i.
00.0									M		
10.0									Freq O	Iffset	1
20.0									0 Hz	1001	
30.0							* 78 1 22.018 0 a				1
10.0									1		
50.0									1		
60.0									1		
70.0									1		
enter 3.98060			Vi	deo BW 2.00	00 MHz*			Span 2 MH			
Res BW 200.0	00 kHz		_				#Sweep 10.0	s (1001 pts	<u>)</u>		
Metrics	•										
Total Channe	el Power	-23.72 di	3m / 1.00 I	MHz							
Total Power	Spectral Dens	sity -	83.72 dBn	n/Hz							
		? Feb 14 12:17:	50 AM 💆								
Spectrum A Swept SA		Spectrum A Channel Po Input Z: 5	ower		um Analyzer 3 el Power PNO: Best Wi	Spectrum A Swept SA	Power (RMS)	• +		Frequenc	y • 🕃
	Coupling: DC Align: Auto	Correctic Freq Ref	ons: Off	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold Trig: Exte	: 1/1	1 2 3 4 5 6 WWWWW NNNN	3.981	Frequency 500000 GHz	Settings
Spectrum	*		Re	ef LvI Offset	1		kr1 3.981	001 GHz	Span 1.000	00000 MHz	
cale/Div 10 d	в			ef Level 43.20			-25.	014 dBm	- SN	wept Span	1
.og										ero Span	
33.2									-	Full Span	
23.2									Start F	req 000000 GHz	
13.2											4
3.20									Stop F		
1.20									3.982	000000 GHz	4
6.80									A	UTO TUNE	
									CF Ste	'n	
16.8								DL1 -21.94 dBm		:p 00 kHz	
16.8	and an and a second sec										-
1									M		
26.8											
26.8 36.8									Freq C 0 Hz	iffset	
26.8 36.8									0 Hz		
16.8 26.8 36.8 46.8 tart 3.9810000 Res BW 510 F			#	Video BW 1.	5 MHz*		Stop 3.9 #Sweep 10.0	820000 GH2 s (1001 pts	0 Hz X Axis	Scale	
26.8 36.8 46.8 tart 3.981000		7 Feb 14		EVideo BW 1.	5 MHz*				0 Hz X Axis	Scale og n	





Configuration NR-MIMO-3C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	Frequency range (MHz)	RBW (kHz)	Limit (dBm)
	D	6400M	20	3699-3700	300	-19.02
P	В	64QAM	30	3698-3699	510	-21.94
В	Ŧ	640AN4	20	3980-3981	300	-19.02
	l	64QAM	30	3981-3982	510	-21.94

Test figure as below:

	nalyzer 1	Channel F	Analyzer 2 Power	Channe	um Analyzer 3 el Power	Spectrum A Swept SA	Analyzer 4	+	$\mathbf{\dot{\mathbf{v}}}$	Frequency	• • 🗦
EYSIGHT	Input: RF Coupling: DC Align: Auto		: 50 Ω ions: Off əf: Ext (S)	Atten: 16 dB Preamp: Off #PNO: Fast	Trig: External 2 Gate: Off #IF Gain: Low	Center F Avg Hold Radio St	req: 3.6993500 : 1/1 d: None	00 GHz		requency 50000 GHz	Settings
a Graph	•			ef LvI Offset 4					Span 2.0000	MHz	
cale/Div 10.0	dB	ľ	R	ef Value 20.00) dBm				CF Step 200.000		
0.00									Aut Ma	0	
0.0									Freq Off		
0.0									0 Hz		
0.0											
0.0											
enter 3.6993			#	video BW 1.00	000 MHz*		# 0	Span 2 MHz			
Res BW 300. Metrics							#Sweep 10.0	s (1001 pts)			
)										
Total Chann Total Power	el Power Spectral Dens	3.2	dBm / 1.00 -83.34 dB								
1		? Feb 1 12:19	4, 2023 :37 AM								
Spectrum A Swept SA	nalyzer 1	Spectrum Channel F	Analyzer 2 Power	Spectru Channe	um Analyzer 3 el Power	Spectrum A Swept SA	Analyzer 4	+	\$	Frequency	• • •
EVOLOUIT			50.0		PNO: Best Wid	e Ava Type	: Power (RMS)				
•••	Input: RF Coupling: DC Align: Auto		: 50 Ω ions: Off əf: Ext (S)	#Atten: 16 dB Preamp: Off	Gate: Off IF Gain: Low	Avg Hold Trig: Exte	: 1/1	1 2 3 4 5 6 WWWWW NNNNN		requency 00000 GHz	Settings
• • •	Coupling DC	Correct	ions: Off əf: Ext (S)	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold Trig: Exte	: 1/1	WW WW W NNNNN	3.69850 Span		Settings
a Spectrum cale/Div 10 c	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R		Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WW WW W NNNNN	3.69850 Span 1.00000	00000 GHz	Settings
a Spectrum cale/Div 10 c	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.69850 Span 1.00000 Sw Zer	00000 GHz 0000 MHz ept Span	Settings
Spectrum cale/Div 10 c og	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.69850 Span 1.00000 Sww Zer F Start Fre	00000 GHz 0000 MHz opt Span o Span ull Span	Settings
Spectrum cale/Div 10 c 99 22.7	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.69850 Span 1.00000 Sww Zer F Start Fre	00000 GHz 0000 MHz apt Span o Span ull Span 29 00000 GHz	Settings
Spectrum Cale/Div 10 c C	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.69850 Span 1.00000 Sww Zer F Start Fre 3.69800 Stop Fre	00000 GHz 0000 MHz apt Span o Span ull Span 29 00000 GHz	Settings
→ → Spectrum cale/Div 10 c og 22.7 2.7 2.7 3.0	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.69850 Span 1.00000 Sww Zer F Start Fre 3.69900 Stop Fre 3.69900 AU	00000 GHz 0000 MHz opt Span o Span ull Span og 00000 GHz rq 00000 GHz TO TUNE	Settings
→→ Spectrum cale/Div 10 c 09 32.7 22.7 22.7 2.7 2.7 2.7 2.7 2.7 7.30 7.3	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	WWWWW NNNNN 973 GHz	3.6985(Span 1.0000(Swm Zer F Start Fre 3.6980(Stop Fre 3.6990(200000 GHz 20000 MHz 20000 MHz 20000 GHz 200000 GHz TO TUNE	Settings
→ a Spectrum cale/Div 10 c 09	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	973 GHz 304 dBm	3.69850 Span 1.00000 Sw Zer F Start Fre 3.69800 Stop Fre 3.69900 AU CF Step	00000 GHz 0000 MHz opt Span o Span ull Span eq 00000 GHz eq 00000 GHz TO TUNE 0 kHz o	Settings
y Spectrum cale/Div 10 c 09 32.7 22.7 12.7 2.70 7.30 17.3 37.3	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Avg Hold Trig: Exte	: 1/1 ernal 2 kr1 3.698	973 GHz 304 dBm	3.69850 Span 1.00000 Sw Zer F Start Fre 3.69900 Stop Fre 3.69900 AU CF Step 100.000	00000 GHz 0000 MHz apt Span o Span ull Span eq 00000 GHz eq 00000 GHz TO TUNE 0 kHz o n	Settings
x Spectrum cale/Div 10 c °G 32.7 22.7 2.70 7.30 17.3 27.3 37.3 47.3 	Coupling DC Align: Auto	Correct	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB 20 dBm 42.70 dB 42.70 d	Avg Hold Trig: Exte	kr1 3.698 -26.	WWWWW NNNNN 973 GHz 304 dBm	3.69850 Span 1.00000 Som Frester 3.69800 Stop Frester 100.000 AU CF Step 100.000 AU Freq Off 0 Hz X Axis S	200000 GHz 20000 MHz apt Span o Span ull Span eq 200000 GHz rd 200000 GHz TO TUNE 0 kHz 0 h set cale	Settings
Spectrum Spectrum ccale/Div 10 c .og 32.7 .22.7 .22.7 .27.0 .7.30 .7.30 .7.30 .7.30 .7.30 .7.30 .7.30 .7.31 .7.32 .7.33 .7.30 .7.30 .7.31 .7.32 .7.33 .7.33 .7.34 .7.35 .7.30 .7.31 .7.32 .7.33 .7.33 .7.34 .7.35 .7.36 .7.37 .7.38 .7.39 .7.30 .7.31 .7.32 .7.33 .7.33 .7.34 .7.35 .7.36 .7.37 .7.38 .7.39	Coupling DC Align: Auto	Correct Freq Ru	ions: Off əf: Ext (S) R	Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off 42.70 dB 20 dBm 42.70 dB 42.70 d	Avg Hold Trig: Exte	kr1 3.698 -26.	WWWWW NNNNN 973 GHz 304 dBm	3.69850 Span 1.00000 Stop Fre 3.69900 AU CF Step 100.000 Aut Freq Off 0 Hz	00000 GHz 0000 MHZ opt Span o Span ull Span 99 00000 GHz 10 TUNE 0 kHz 0 1 Set cale	Settings

Page 191 of 414





Spectrum Ar Swept SA	nalyzer 1	Spectrum A Channel Po	Analyzer 2 ower	Spectru Channe	m Analyzer 3 Power	Spectrum Swept SA	Analyzer 4	+	\$	Frequenc	y v 💦
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 5 Correction Freq Ref	ons: Off	Atten: 10 dB Preamp: Off #PNO: Fast	Trig: External Gate: Off #IF Gain: Low	Avg Hold	Freq: 3.9806500 d: 1/1 td: None	00 GHz		Frequency 650000 GHz	Settings
uvar 1 Graph			Re	ef LvI Offset 4	3.20 dB				Span 2.000) MHz	
cale/Div 10.0	dB			ef Value 20.00							-
Log									CF Ste		
10.0										00 kHz	L.
0_00				-				-		uto	
10.0											-
20.0									Freq O	ffset	
30.0								-	0 Hz		-
40.0	-								-		
50.0	_								-1		
60.0											
70.0											
Center 3.98065 Res BW 300.0			Vi	ideo BW 3.000	0 MHz*		#Sweep 10.0	Span 2 MH			
							#3weep 10.0	5 (1001 pi	21		
2 Metrics	•										
Total Channe	el Power	-25.33 dB	3m / 1.00 l	MHz							
Total Power	Spectral Dens	sity -	85.33 dBn	m/Hz							
15		? Feb 14 12:20:									
		~		Y	me automatica in						
Spectrum A Swept SA	nalyzer 1	Spectrum A Channel Po	Analyzer 2	Spectru Channe	n Analyzer 3 Power	Spectrum Swept SA	Analyzer 4	• +	\mathbf{Q}	Frequenc	у 📢 👬
KEYSIGHT	Input: RF	Input Z: 5		#Atten: 16 dB	PNO: Best W		e: Power (RMS)	12345			
	Coupling DC	Correctio	ons: Off	Preamp: Off	Gate: Off	Avg Hold	d: 1/1	WW WW	Genter	Frequency 500000 GHz	Settings
M	Align: Auto	Freq Ref	Ext (S)		IF Gain: Low Sig Track: Off	Trig: Ext	ernal 2	NNNN	0.001	500000 GH2	
Lya					oig maan. on		kr1 3.981		Span		
1 Spectrum	•			ef LvI Offset 4		IVI.			1.0000	00000 MHz	-
Scale/Div 10 d	В		Re	ef Level 43.20	dBm		-20.	962 dBi		vept Span	
209									26	ero Span	
33.2	-									Full Span	
22.2									Otent E)
23.2									Start F	req 000000 GHz	
13.2									3.981		
									Stop F		
3.20									3.982	000000 GHz	_
-6.80									A	JTO TUNE	
-16.8									CF Ste	D	
A.	1						_	DL1 -21.94 dE		P D0 kHz	
-26.8										uto	-
-36.8									M		
-46.8									Freq O	ffset	
.0.0									0 Hz	0	
Start 3.981000			#	Video BW 1.5	MHz*			9820000 GI		og	
	HZ						#Sweep 10.0	e (1001 nt	s) 🗀 Li		11
Res BW 510 k							wencep toto	3 (1001 pt			
#Res BW 510		? Feb 14 12:21:							Signal (Span Z	Track	





Configuration NR-MIMO-3C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	Frequency range (MHz)	RBW (kHz)	Limit (dBm)
	В	64QAM	40	3699-3700	430	-19.02
	Б	64QAIVI	40	3698-3699	510	-21.94
В	т	640AN4	10	3980-3981	430	-19.02
	I	64QAM	40	3981-3982	510	-21.94

Test figure as below:

	nalyzer 1	Spectrum Channel P	Analyzer 2 Power	Spectrue Channe	m Analyzer 3 I Power	Spect Swep	trum Ana ot SA	alyzer 4	+	\mathbf{Q}	Frequency	y v	3
EYSIGHT	Input: RF Coupling: DC Align: Auto		50 Ω ions: Off of: Ext (S)	Atten: 16 dB Preamp: Off #PNO: Fast	Trig: Extern Gate: Off #IF Gain: Lo	Ave	nter Freq g Hold: 1 dio Std: 1	: 3.69928500 /1 None	00 GHz		Frequency 285000 GHz	Settir	ngs
Graph										Span	2 M I -]	
cale/Div 10.0	.)			ef LvI Offset 4 ef Value 20.00						2.0000		1	
.og							1			CF Ste	p 00 kHz		
10.0												1	
10.0										Ma	an		
20.0	_									Freq O	ffset]	
30.0								-		0 Hz		-	
40.0							-						
50.0 60.0													
70.0													
enter 3.69928	5 0117			ideo BW 1.00					Span 2 MHz				
Res BW 430.0			#1	ILLEO BW 1.000			#\$	Sweep 10.0	s (1001 pts)				
2 Metrics	۲												
Total Channe	el Power	-23.49 c	Bm / 1.00	MHz									
Total Power	Spectral Dens	ity	-83.49 dBr	n/Hz									
45		? Feb 1- 12:22	4, 2023 :35 AM						田义				
Spectrum Ar	nalvzer 1	Spectrum	Analyzer 2	Spectru	m Analyzer 3	Spect	trum Ana	alvzer 4		-			
Swept SA	alyzer i	Channel P	ower	Channe		Swep	t SA		+	\mathbf{O}	Frequency	/ •	2
KEYSIGHT	Input: RF Coupling DC	Input Z: Correct	50 Ω ions: Off	#Atten: 16 dB Preamp: Off	PNO: Best V Gate: Off		g Type: P g Hold: 1	ower (RMS)	123456	Center	Frequency	Settin	nas
• • •	Align: Auto		ef: Ext (S)	r roump. on	IF Gain: Lov Sig Track: C	w Trig	g: Extern		WWWWW NNNNN	3.6985	500000 GHz		.9-
1 Spectrum	v					211	Mkr	1 3 698	199 GHz	Span			
scale/Div 10 d	.)			ef LvI Offset 4 ef Level 42.70			MIKI			1.0000	00000 MHz	1	
og		_							555 dBm				
				Ť					555 dBm	Sv Ze	vept Span ero Span		
32.7									555 dBm	Ze	ero Span	-	
									555 dBm		ero Span Full Span		
	_								555 dBm	Start Fi	ero Span Full Span req	-	
22.7									555 dBm	Start Fr 3.6980	ero Span Full Span req 000000 GHz		
22.7									555 dBm	Start Fr 3.6980	ero Span Full Span req 000000 GHz	1	
22.7 12.7 2.70									555 dBm	Ze Start Fi 3.6980 Stop Fi 3.6990	ero Span Full Span 2000000 GHz req 2000000 GHz		
22.7 12.7 2.70 7.30									555 dBm	Start Fr 3.6980 Stop Fr 3.6990	Full Span Full Span req D00000 GHz req D00000 GHz UTO TUNE	1	
22.7 12.7 2.70 7.30		1							555 dBm	Start Fr 3.6980 Stop Fr 3.6990 AL	ro Span Full Span req 000000 GHz req 000000 GHz JTO TUNE P		
22.7 12.7 2.70 7.30 17.3		1								Start Fr 3.6980 Stop Fr 3.6990 AL CF Ste 100.00	ro Span Full Span req 000000 GHz 000000 GHz JTO TUNE P 20 kHz		
22.7 12.7 2.70 7.30 17.3 27.3 27.3		1								Start Fr 3.6980 Stop Fr 3.6990 AL	Pro Span Full Span req 000000 GHz req 000000 GHz JTO TUNE p 00 kHz 10 kHz		
22.7 12.7 2.70 7.30 17.3 27.3 37.3		1								Zei Start Fri 3.6980 Stop Fri 3.6990 All CF Ste 100.00 All Mathing Freq O	ro Span Full Span req 000000 GHz req 000000 GHz JTO TUNE p 00 kHz tto an		
22.7 12.7 2.70 7.30 17.3 27.3 37.3		1								Start Fri 3.6980 Stop Fri 3.6990 All CF Ste 100.00 All	ro Span Full Span req 000000 GHz req 000000 GHz JTO TUNE p 00 kHz tto an		
22.7 12.7 2.70 7.30 17.3 27.3 37.3 47.3)1							DL1-21.94 dBm	Start Fr 3.6990 Stop Fr 3.6990 AL CF Ste 100.00 AL Freq O 0 Hz X Axis	ro Span Full Span req D000000 GHz req D000000 GHz JTO TUNE P D0 kHz Ato an ffset Scale		
32.7 22.7 12.7 2.70 7.30 17.3 27.3 37.3 47.3 47.3 5tart 3.6980000 (Res BW 510 k)1		Video BW 1.5				Stop 3.0		Start Fri 3.6990 Stop Fri 3.6990 AL CF Ste 100.00 AL Freq O 0 Hz	ro Span Full Span req 000000 GHz req 000000 GHz UTO TUNE P 00 kHz tto an ffset Scale yg		

Page 193 of 414





Mgn Auto Preq Ref Ext (S) #PRO Fast #E Gan Low Badio Std None 33.990715000 CHz Graph Image: Start Press Ref Value 20.00 dBm Press Press 20000 MHz Organization Viola Ref Value 20.00 dBm Press Press Press Press Organization Viola Ref Value 20.00 dBm Press Pr	Spectrum Ar Swept SA	nalyzer 1	Spectrum A Channel Po		Spectrur Channel	n Analyzer 3 Power	Swept SA	Analyzer 4	+	\diamond	Frequenc	y v
Graph Ref Lvi Offset 43.20 dB 2000 MHZ 2000 MHZ Cade/DV 100 dB Ref Value 20.00 dBm 2000 MHZ 2000 MHZ 000 Man Ref Value 20.00 dBm 2000 MHZ 2000 MHZ 000 Man Freq Offset 2000 MHZ 2000 MHZ 000 Man Freq Offset 1400 000 Man Freq Offset 1400 000 Man Spectrum Analyzer 1 Spectrum Analyzer 3 Spectrum Analyzer 4 Image: Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 1 Spectrum Analyzer 3 Spectrum Analyzer 4 Image: Spectrum Analyzer 3 Spectrum Analyzer 3 Spectrum Analyzer 3 Spectrum Analyzer 4 Image: Spectrum Analyzer 3 Image: Spectrum Analyzer 3 Spectrum Analyzer 4 Image: Spectrum Analyzer 3 Image: Spectrum	++-	Coupling DC	Correction	ns: Off P	reamp: Off	Gate: Off	Avg Hold	1/1	00 GHz			Settings
CaterDV 10.0 dB Ret LV 0 list x 320 dB Ret Value 20.0 dBm Pres dBm Spectrum Analyzer 1 Pres dBm												
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000 <	0.0											
00 mbr 3.980715 GHz Video BW 4.0000 MHz* Span 2 MHz res BW 430.00 kHz rsweep 10.0 s (1001 pts) Mefrics Total Channel Power -24.76 dBm / 1.00 MHz Total Channel Power -24.76 dBm / 1.00 MHz Spectrum Analyzer 1 Spectrum Analyzer 2 Spectrum Analyzer 1 Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 4 Main Power Premp: Off Gate Off Trig: External 2 Wurder Her Ext (S) Premp: Off Spectrum Ref Lvi Offset 43.20 dB Spectrum Ref Lvi Offset 43.20 dB Ref Lvi Offset 43.20 dB -26.556 dBm Start Freq 3.98100000 GHz Spectrum Ref Lvi Offset 43.20 dB Spectrum Ref Lvi Offset 43.20 dB <												
nter 3.980715 CHz tes EW 430.00 KHz tes EW 40.00 KHz tes												
texe BW 430.00 kHz #Sweep 10.0 s (1001 pts) Metrics Total Channel Power -24.76 dBm / 1.00 MHz Total Channel Power -24.76 dBm / 1.00 MHz Total Power Spectral Density -84.76 dBm / 1.00 MHz Spectrum Analyzer 1 Spectrum Analyzer 2 Channel Power Channel Power Channel Power Channel Power Spectrum Analyzer 1 Spectrum Analyzer 2 Channel Power Channel Power Channel Power Channel Power Systept SA Prequency Correctors: Off Preamp: Off Predman: Off Predma: Off Predman: Off P												
Metrics Total Channel Power Total Power Total Power Total Power Total Power Total Power Power Spectral Density -84.76 dBm/Hz Total Power Percent Power PercentPower Perce				Vide	eo BW 4.000	0 MHz*		#Sween 10 0				
Total Channel Power -24.76 dBm / 1.00 MHz Total Power Spectral Density -84.76 dBm / 1.00 MHz Spectrum Analyzer 1 Spectrum Analyzer 2 Spectrum Analyzer 1 Spectrum Analyzer 2 Channel Power Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 2 Channel Power Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 4 Spectrum Analyzer 1 Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 4 Spectrum Analyzer 1 Spectrum Analyzer 3 Spectrum Analyzer 1 Spectrum Analyzer 4 Spectrum Analyzer 2 Spectrum Analyzer 3 Spectrum Analyzer 4 Spectrum Analyzer 3 Spectrum Analyzer 50.00 (Matri 1 3.981 012 GHz) Spectrum Analyzer 4 Spectrum Analyzer 3 Span Ref Lvi Offset 43.20 dB		v IIII						wencep toto	0 (1001 pto)	1		
Total Power Spectral Density -84.76 dBm/Hz Image: Construct of the second se	moundo	.)										
Feb 14, 2023 Spectrum Analyzer 1 Spectrum Analyzer 2 Spectrum Analyzer 3 Spectrum Analyzer 4 Spectrum Analyzer 1 Spectrum Analyzer 1 Spectrum Analyzer 2 Company 2: 50:0 Fed Ref: Ext (S) Pramp: Off Pramp: Off Grant: 10:4B Prover (FMS) 1:2:34:56 Spectrum Analyzer 3 Spectrum Analyzer 4	Total Channe	el Power	-24.76 dB	m / 1.00 Mi	Hz							
Feb 14, 2023 Spectrum Analyzer 1 Spectrum Analyzer 2 Spectrum Analyzer 3 Spectrum Analyzer 4 Spectrum Analyzer 1 Spectrum Analyzer 1 Spectrum Analyzer 2 Company 2: 50:0 Fed Ref: Ext (S) Pramp: Off Pramp: Off Grant: 10:4B Prover (FMS) 1:2:34:56 Spectrum Analyzer 3 Spectrum Analyzer 4	Total Power	Spectral Dens	sity -8	34.76 dBm/l	Hz							
Spectrum Analyzer 1 Spectrum Analyzer 2 Spectrum Analyzer 3 Spectrum Analyzer 4 ++ Image: Channel Power Frequency Image: Channel Power EFYSIGHT Input RF Coupling DC Corrections: Off PMOR. Bed Wide Avg Type: Power (RMS) 2 3 4 5 6 Image: Channel Power Setting: Spectrum Coupling DC Corrections: Off Preamp: Off PROB. Bed Wide Avg Type: Power (RMS) 2 3 4 5 6 Image: Channel Power Setting: Spectrum Coupling DC Corrections: Off Preamp: Off PROB. Bed Wide Avg Type: Power (RMS) 2 3 4 5 6 Image: Channel Power Setting: Spectrum Ref Lvi Offset 43.20 dB Mkr1 3.981 012 GHz Span In0000000 MHz Span In0000000 MHz Span Span 332 Ref Level 43.20 dB Start Freq Sastion0000 GHz Sastion0000 GHz Sastion0000 GHz Sastion0000 GHz Sastion0000 GHz Sastion0000 GHz Auto Image: Sastion000 GHz Auto Image: Sastion000 GHz Auto Image: Sastion000 GHz Auto Image: Sastion00 GHz Image: Sast		•										
Swept SA Channel Power Channel Power Swept SA Trequency EEYSIGHT Input Z: 50 0. Corrections: Off Align: Auto Constructions: Off Freq Ref. Ext (S) PNO: Best Wide Premp: Off Avg Type: Power (RMS) IF Gain: Low Sig Track. Off 12: 3:4:56 Center Frequency 3:981500000 GHz Settings Spectrum Ref Lvi Offset 43.20 dB Ref Level 43.20 dB Ref Level 43.20 dB Mkr1 3:981 012 GHz -26.556 dBm Span 1:0000000 MHz Span 1:0000000 GHz Swept Span Zero Span 3:32 Image: Span Start Freq 3:38100000 GHz Start Freq 3:98200000 GHz Start Freq 3:98200000 GHz Start Freq 3:98200000 GHz 3:80 Image: Span Start Span	1 7				$ \land$.#				
Avg Hold: 1/1 Avg Hold: 1/1 Trig: External 2 NNNN Spectrum Ref Lvi Offset 43.20 dB Statt Freq 3.88500000 GHz Statt Freq 3.88200000 GHz Auto Statt Freq 3.88200000 GHz Auto Freq Offset Auto Statt 3.9810000 GHz Freq Offset Auto Auto Tune <	Swept SA		Channel Po	wer	Channel	Power	Swept SA				Frequenc	y v
Spectrum Ref Lvi Offset 43.20 dB Mkr1 3.981 012 GHz Span cale/Div 10 dB Ref Level 43.20 dB -26.556 dBm Swept Span 09 -26.556 dBm Full Span Swept Span 32 -32 -32 -32 -33 32 -32 -33 -33 -33 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -34 -34 -34 -34 32 -32 -34 -34 -34 332 -32 -34 -34 -34 -34 333 -38100000 GHz -39320000 GHz -34 -34 -34 46.8 -34 -34 -34 -34 -34 -34 66.8 -1 -44 -4	++•	Coupling DC	Correction	ns: Off P		Gate: Off IF Gain: Low	Avg Hold	1: 1/1	wwwww			Settings
09	Spectrum			Ref	LvI Offset 4		М			1.0000	00000 MHz	
3.2		B		Ref	Level 43.20	dBm		-26.	556 dBm			
3.2 3.98100000 GHz 3.98100000 GHz 3.98200000 GHz 3.80 0.1.2194 den 6.8 0.1.2194 den 6.9 0.1.2194 den 6.9	3.2									F	Full Span	
3.2 20 20 80 6.8 6.9 6.9 6.9 7 7 7	3.2											
120 3.98200000 GHz 130 0.1-21 94 dBm 1 0.00 kHz 1 0.00 kHz 100.000 kHz 0.00 kHz 100.00 kHz	3.2											
6.8 1 CL1-2194 dem 6.8 0L1-2194 dem CF Step 100.000 kHz Auto Auto Man Freq Offset 0 Hz Video BW 1.5 MHz* Stop 3.9820000 GHz #Stop 510 kHz #Video BW 1.5 MHz* Stop 3.9820000 GHz Lin Lin Lin Stop 10.0 s (1001 pts)	.20											
6.8 1 00.000 kHz 6.8 1 00.000 kHz 6.8 0 0 6.9 0 0 6.9 0 0 6.9 0 0	.80									AL	JTO TUNE	
100.000 kHz	6.8							_	Di 1 91 04 00	CF Ste	p	
6.8 Image: Constraint of the second seco	6.8 1								UL1-21.94 dBm	L		
6.8 art 3.9810000 GHz #Video BW 1.5 MHz* Stop 3.9820000 GHz tes BW 510 kHz #Sweep 10.0 s (1001 pts) Feb 14, 2023												
art 3.9810000 GHz #Video BW 1.5 MHz* Stop 3.9820000 GHz Res BW 510 kHz #Sweep 10.0 s (1001 pts) Feb 14, 2023											ffset	
Res BW 510 kHz #Sweep 10.0 s (1001 pts) Lin Lin Feb 14, 2023 A	art 3 081000	CH2		#\/	ideo RW 1.5	MU7*		Stor 24	2820000 CH-			
1 6 7 Feb 14, 2023 6 A FE 10 7 Signal Track				#V	1000 844 1.3	11112						
			9 Feb 14,	2023	Δ			+• N				Ĩ





Configuration NR-MIMO-3C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	Frequency range (MHz)	RBW (kHz)	Limit (dBm)
	D	640414	FO	3699-3700	510	-19.02
	В	64QAM	50	3698-3699	510	-21.94
В	т	640AN4	50	3980-3981	510	-19.02
	I	64QAM	50	3981-3982	510	-21.94

Test figure as below:

Swept SA	nalyzer 1	Channel	n Analyzer 2 Power	Spect Chan	rum Analyzer 3 nel Power	Spectrum Ar Swept SA	alyzer 4	+	\mathbf{Q}	Frequency	/ 🔻 🔁
	Input: RF Coupling: DC Align: Auto	Correc	2:50 Ω tions: Off tef: Ext (S)	Atten: 16 dB Preamp: Off #PNO: Fast	Trig: External 2 Gate: Off #IF Gain: Low	Center Fre Avg Hold: Radio Std:	q: 3.6992450 1/1 None	00 GHz		Frequency 245000 GHz	Settings
Graph	•			tef Lvi Offset				_	Span 2.0000) MHz	
cale/Div 10.0 og) dB		R	ef Value 20.0	00 dBm				CF Ste	p 00 kHz	
.00									- AL	ito	
0.0									Freq O		
0.0									0 Hz		
0.0											
0.0											
0.0 enter 3.6992	45 GHz		#	Video BW 1.0	000 MHz*			Span 2 MHz			
Res BW 510.						#	Sweep 10.0	s (1001 pts)			
Metrics	•										
Total Chann			dBm / 1.00								
Total Power	Spectral Dens	sity	-82.49 dB	m/Hz							
15		? Feb	14, 2023								
		12:20	6:45 AM			-					
Spectrum A Swept SA		Spectrum	Analyzer 2	2 Spect Chan	rum Analyzer 3 nel Power	Spectrum Ar			\$	Frequency	, , ,
Spectrum A Swept SA	nalyzer 1	Spectrum Channel	Analyzer 2	2 Spect Chann #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low	Spectrum Ar Swept SA	nalyzer 4 Power (RMS) 1/1	+ 1 2 3 4 5 6 WWWWW	Center	Frequency 500000 GHz	settings
Swept SA EYSIGHT	Input: RF	Spectrum Channel	Analyzer 2 Power 2: 50 Ω tions: Off tef: Ext (S)	Chani #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2	1 2 3 4 5 6 WWWW NNNN	Center 3.6985 Span	Frequency 500000 GHz	
Swept SA EYSIGHT	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	#Atten: 16 dE	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWWW	Center 3.6985 Span 1.0000	Frequency 500000 GHz 00000 MHz vept Span	
Swept SA EYSIGHT Spectrum cale/Div 10 c	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000	Frequency 500000 GHz 00000 MHz vept Span oro Span	
Swept SA EYSIGHT Spectrum cale/Div 10 c 0 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000	Frequency 500000 GHz 500000 MHz vept Span rro Span Full Span	
Swept SA EYSIGHT Spectrum cale/Div 10 c 0 22.7	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000 Sv Ze I Start Fr 3.6980	Frequency 500000 GHz 00000 MHz vept Span ro Span Full Span req 000000 GHz	
Swept SA EYSIGHT Spectrum cale/Div 10 c 9 2.7 2.7 2.7 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000 Sv Ze Start Fi 3.6980 Stop Fi	Frequency 500000 GHz 00000 MHz vept Span ro Span Full Span req 000000 GHz	
Swept SA EYSIGHT Spectrum cale/Div 10 c 9 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000 Sv Ze Start Fr 3.6980 Stop Fr 3.6990	Frequency 500000 GHz 200000 MHz vept Span ror Span Full Span req 2000000 GHz req	
Swept SA EYSIGHT →→ 7 Spectrum sale/Div 10 c 09 2.7 2.7 2.7 3.0 .30	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698	+ 1 2 3 4 5 6 WWWW NN NN N 972 GHz	Center 3.6985 Span 1.0000 Sv Sv Sv Start Fr 3.6980 Stop Fr 3.6990 AL CF Ste	Frequency 500000 GHz 200000 MHz vept Span rro Span Full Span req 2000000 GHz req 2000000 GHz UTO TUNE P	
Swept SA EYSIGHT 	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698		Center 3.6985 Span 1.0000 Sv Zee Start Fr 3.6980 Stop Fr 3.6990 Att CF Ste 100.00 Att	Frequency 500000 GHz vept Span Full Span Full Span Fill	
Swept SA EYSIGHT g Spectrum cale/Div 10 c og 32.7 22.7 27.0 7.30 7.30 7.30 7.30 7.30 7.30	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698		Center 3.6985 Span 1.0000 Sv Zec I Start Fr 3.6986 Stop Fr 3.6990 At CF Ste 100.00	Frequency 500000 GHz vept Span ro Span Full Span req 000000 GHz JTO TUNE p 00 kHz tto an	
Swept SA EYSIGHT spectrum cale/Div 10 c 09 32.7 22.7 2.70 7.30 7.30 7.3 37.3 	Input: RF Coupling DC Align: Auto	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 42.70 dB	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	nalyzer 4 Power (RMS) 1/1 nal 2 r1 3.698		Center 3.6985 Span 1.0000 Start Fr 3.6980 Stop Fr 3.6990 Att CF Ste 100.00 Att Freq O 0 Hz	Frequency 500000 GHz vept Span ror Span Full Span req 000000 GHz JTO TUNE p J0 kHz tto an	
Swept SA	nalyzer 1	Spectrum Channel	A Analyzer 2 Power 2: 50 Ω ttions: Off Ref: Ext (S)	Chanı #Atten: 16 dE Preamp: Off	hel Power PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off 0 dBm	Spectrum Ar Swept SA le Avg Type: Avg Hold: Trig: Exten	alyzer 4 Power (RMS) 1/1 nal 2 r1 3.698 -25.		Center 3.6985 Span 1.0000 Sv Zer 1 Start Fr 3.6990 Stop Fr 3.6990 Au CF Ste 10.000 Au Freq O 0 Hz X Axis	Frequency 500000 GHz 200000 MHz vept Span ro Span Full Span req 2000000 GHz JTO TUNE p 200 kHz tto an ffset Scale 29	

Page 195 of 414





CEYSIGHT	Input: RF Coupling DC Align: Auto	Input Z: 5 Correction Freq Ref		Atten: 10 dB	Trig: External	2 Center	Freq: 3.98075500	10 GHz			
Graph cale/Div 10.0 .09			Ext (S)	Preamp: Off #PNO: Fast	Gate: Off #IF Gain: Lov	Avg Hold: 1/1			Center Frequency 3.980755000 GHz		Settings
.og 10.0	*		Po	f Lvi Offset	43 20 dB				Span 2 000	0 MHz]
10.0	dB			f Value 20.0							1
									CF Ste	ep 00 kHz	
											1
0.00								-		uto an	
0.0								-	Freq C	feet	
:0.0									0 Hz	liser	
30.0											1
0.0											
50.0											
60.0											
0.0											
enter 3.98075			Vie	deo BW 5.0	000 MHz*			Span 2 MH			
Res BW 510.0	0 kHz		_				#Sweep 10.0	s (1001 pt	s)		
Metrics	•										
Total Channe	el Power	-21.31 di	3m / 1.00 M	ИHz							
Total Power	Spectral Dens	sity -	81.31 dBm	/Hz							
		? Feb 14 12:29:0	, 2023				.#				
Spectrum Ar Swept SA	nalyzer 1	Spectrum A Channel Po			rum Analyzer 3 nel Power	Spectrum Swept SA	Analyzer 4	• +	\$	Frequenc	y v
EYSIGHT	Input: RF	Input Z: 5	50 Ω	#Atten: 16 dB	PNO: Best W	ide Avg Ty	be: Power (RMS)	1 2 3 4 5	5 Center	Frequency	
•••	Coupling DC Align: Auto	Correction Freq Ref		Preamp: Off	Gate: Off IF Gain: Low Sig Track: Off		ld: 1/1 tternal 2	WWWW NNNN	₩ 3.981	500000 GHz	Settings
Spectrum	T		Re	f Lvl Offset			lkr1 3.981	426 GH	Z 1.000	00000 MHz	
cale/Div 10 dl	в			f Level 43.2			-23.	741 dBr		wept Span	-
og									Ze Ze	ero Span	
3.2										Full Span	1
											l.
23.2			_						Start F		
3.2									3.981	000000 GHz	-
									Stop F		
3.20			_						3.982	000000 GHz	-
6.80			_						A	UTO TUNE	1
10.0)
16.8				¢1				DL1 -21.94 dB	CF Ste	ep 00 kHz	
26.8				Y					L		-
0.0									M		
36.8									Freq C		-
46.8									0 Hz		
									X Axis	Scalo	4
tart 3.9810000			#	Video BW 1	.5 MHz*			9820000 GH	z i	og	
Res BW 510 k	Hz						#Sweep 10.0	s (1001 pt	5) 📄 L	n	
		? Feb 14 12:29:3	, 2023						Signal (Span 2		1





Configuration NR-MIMO-6C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	Frequency range (MHz)	RBW (kHz)	Limit (dBm)
	В	64QAM	20	3699-3700	200	-19.02
	D	04QAIVI	20	3698-3699	510	-21.94
В	Ŧ	640AN4	20	3980-3981	200	-19.02
	Ι	64QAM	20	3981-3982	510	-21.94

Test figure as below:

Swept SA	nalyzer 1	Spectrum Channel F	Power	Spe Cha	ctrum Analy nnel Power	zer 3	Spectru Swept S	m Analyz SA	zer 4	+	$\mathbf{\dot{\mathbf{v}}}$	Frequency	y 🔻 🗦
	Input: RF Coupling: DC Align: Auto		: 50 Ω tions: Off ef: Ext (S)	Atten: 16 d Preamp: 0 #PNO: Fas	f Gat	: External 2 e: Off Gain: Low	Avg F	er Freq: 3. Iold: 1/1 Std: Non	.69940000 ne	0 GHz		r Frequency 400000 GHz	Settings
ka Graph	•			lef LvI Offs							Span 2.000	0 MHz	1
cale/Div 10.0) dB		R	ef Value 20	0.00 dBm		_	1	_	1	CF Ste	ep 100 kHz	
.00												uto	1
0.0			-								Freq C	lan Offset]
0.0											0 Hz		
0.0													
0.0									_				
0.0 enter 3.6994	00 CH2	Ļ	#1	Video BW 1	0000 MH-					Span 2 M			
Res BW 200.			#		.0000 MHZ			#Swe		s (1001 p			
Metrics	•												
Total Chann	nel Power	-22.82	dBm / 1.00	MHz									
Total Power	Spectral Dens	sity	-82.82 dB	m/Hz									
		? Feb 1 12:31	4, 2023										
		~ 12.01	1:12 AM		atrum Analy		Casatra						
Spectrum A Swept SA	nalyzer 1	Spectrum Channel F	Analyzer 2 Power	Cha	ctrum Analy nnel Power		Swept S	m Analyz SA				Frequenc	, .
Swept SA	nalyzer 1	Spectrum Channel F Input Z Correct	Analyzer 2 Power	2 Spe Cha #Atten: 16 Preamp: Of	nnel Power dB PN f Gat IF C	D: Best Wid e: Off Gain: Low	e Avg T Avg F	m Analyz	er (RMS)	יא וםב ריו	6 ₩ N Cente 3.698	Frequency 500000 GHz	y v
Swept SA	Input: RF	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16	nnel Power dB PN4 f Gat IF C Sig	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS)	+ 12345 WWWW	6 Cente 3.698 N Span	r Frequency	
Swept SA EYSIGHT	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Ot	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698		6 Cente ₩ 3.698 N Span 1.000 m S s	r Frequency 500000 GHz	
Swept SA EYSIGHT Spectrum cale/Div 10 c	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente ₩ 3.698 N Span 1.000 m S s	r Frequency 500000 GHz 000000 MHz wept Span	
Swept SA EYSIGHT Spectrum cale/Div 10 c 0 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente 3.698 Span 1.000 Start F	r Frequency 5500000 GHz 000000 MHz wept Span ero Span Full Span Freq	
Swept SA EYSIGHT Spectrum cale/Div 10 c 0 22.7	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente 3.698 Span 1.000 Start F 3.698	r Frequency 500000 GHz 000000 MHz wept Span ero Span Full Span Freq 000000 GHz	
Swept SA EYSIGHT Spectrum cale/Div 10 c 9 22.7 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente 3.698 1.000 1.000 Start F 3.698 Start F	r Frequency 500000 GHz 000000 MHz wept Span ero Span Full Span Freq 000000 GHz	
Swept SA EYSIGHT Spectrum cale/Div 10 c 9 12.7 2.7 2.7 2.7 2.7	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	er (RMS) 2 3.698	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente 3.698 Span 1.000 m Start F 3.698 Stop F 3.698	r Frequency 500000 GHz 000000 MHz wept Span ero Span Full Span Freq 000000 GHz req	
Swept SA EYSIGHT →→ g Spectrum cale/Div 10 c 9 12.7 2.7 2.7 3.0 	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	3.698 -25.	+ 1 2 3 4 5 WWWW N N N N 945 GH	6 Cente 3 G98 N Span 1.000 1.000 Start F 3.698 Stop F 3.698 CF Stt	r Frequency 500000 GHz 000000 MHz wept Span ero Span Full Span Freq 0000000 GHz Freq 0000000 GHz UTO TUNE	
Swept SA EYSIGHT Spectrum cale/Div 10 c 0 2.7 2.7 2.7 3.0 .70 .30 .7.3 .7.3	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	3.698 -25.	945 GF	6 Cente 3.698 Span 1.000 Start F 3.698 Stop F 3.698 A CF Sta 100.0 ▲	r Frequency 500000 GHz 500000 MHz wept Span ero Span Full Span Freq 000000 GHz ireq 000000 GHz UTO TUNE PP 00 KHz uto	
Swept SA EYSIGHT →→ g Spectrum cale/Div 10 c 99 22.7 22.7 2.70 7.30 7.30 7.3 37.3	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	3.698 -25.	945 GF	6 Cente 3.698 Span 1.000 Start F 3.698 Stop F 3.699 A CF Sto 0.0 A W Freq C	r Frequency 500000 GHz 500000 MHz wept Span ero Span Full Span Freq 0000000 GHz ireq 0000000 GHz UTO TUNE app 00 kHz uto lan	
Swept SA EYSIGHT Spectrum cale/Div 10 c 09 32.7 22.7 2.70 7.30 7.50	Input: RF Coupling DC Align: Auto	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power dB PN0 f Gat IF C Sig et 42.70 dB	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA Type: Powe fold: 1/1 External 2	3.698 -25.	945 GF	6 Cente 3.698 Span 1.000 Start F 3.698 Stop F 3.698 Stop F 3.698 A CF Sta 100.0 A Freq C 0 Hz	r Frequency 500000 GHz 500000 MHz wept Span ero Span Full Span Freq 000000 GHz ireq 000000 GHz UTO TUNE app 00 kHz uto lan Dffset	
	nalyzer 1 Input: RF Coupling: DC Align: Auto IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Spectrum Channel F Input Z Correct	Analyzer 2 Power :: 50 Ω tions: Off ef: Ext (S)	Cha #Atten: 16 Preamp: Of	nnel Power JB PNNer Gata IF Gata IF Gata Sig et 42.70 dBm 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1	D: Best Wid e: Off Gain: Low Track: Off	Swept S e Avg T Avg F Trig: I	m Analyz SA iype: Powe told: 1/1 External 2 Mkr1	er (RMS) 2 3.698 -25.1	945 GF	6 Cente 3.698 N Span 1.000 Start F 3.698 Stop F 3.698 Stop F 3.698 A CF Sta 100.0 A Freq C 0 Hz X Axis	r Frequency 500000 GHz 500000 MHz wept Span ero Span Full Span Freq 0000000 GHz ireq 0000000 GHz UTO TUNE app 00 kHz uto lan	

Page 197 of 414





Spectrum A Swept SA	nalyzer 1	Spectrum A Channel Po	analyzer 2 ower	Spectrur Channel	m Analyzer 3 Power	Spectrum Swept SA	Analyzer 4	+	\$	Frequenc	y v
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 5 Correction Freq Ref	ons: Off	Atten: 10 dB Preamp: Off #PNO: Fast	Trig: External Gate: Off #IF Gain: Low	Avg Hold	req: 3.9806000 d: 1/1 td: None	00 GHz		Frequency 600000 GHz	Settings
Graph	•			ef LvI Offset 4	2 20 45				Span 2.000		
cale/Div 10.0	dB			of Value 20.00							
.og 10.0									CF Ste	p D0 kHz	
0.00										ito	1
10.0									M		
20.0									Freq O	ffset	7
30.0									0 Hz		-
40.0											
50.0											
30.0											
70.0											
enter 3.98060 Res BW 200.0			Vie	deo BW 2.000	0 MHz*		#Sweep 10.0	Span 2 MH			
Metrics	V KIIZ						#Oweep 10.0	3 (1001 pt.	<i>,</i>		
Moules	.)										
Total Chann	el Power	-23.92 df	3m / 1.00 M	MHz							
Total Power	Spectral Dens		83.92 dBm								
15		? Feb 14 12:32:5									
Spectrum A Swept SA		Spectrum A Channel Po	ower	Channel		Spectrum / Swept SA		· +	\$	Frequenc	у •
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: Correction Freq Ref	ons: Off	#Atten: 16 dB Preamp: Off	PNO: Best Wi Gate: Off IF Gain: Low Sig Track: Off	Avg Hold Trig: Ext		1 2 3 4 5 0 WWWWW	₩ 3.981	Frequency 500000 GHz	Settings
Spectrum	•	_	Re	ef LvI Offset 4			kr1 3.981	314 GH	Z 1.000	00000 MHz	
cale/Div 10 d	в			of Level 43.20			-25.	951 dBn		vept Span	-
									Ze	ero Span	_
33.2				-						Full Span	
23.2		-							Start F		
13.2										000000 GHz	
3.20									Stop F 3.982	req 000000 GHz	
6.80											-
										JTO TUNE	1
16.8	_		≬ 1					DL1 -21.94 dB	CF Ste	p 00 kHz	
26.8			V								-
36.8									M		
46.8									Freq O 0 Hz	ffset	
tart 3.981000				Video BW 1.5	MU-*		Stor 24	0820000 01	X Axis		-
tart 3.981000 Res BW 510 I			#	video BW 1.5	WITZ"	Stop 3.9820000 GHz #Sweep 10.0 s (1001 pts)					
Kes BW SIU											
		? Feb 14 12:33:	, 2023 🧖						Signal		=



9.4 Conducted Unwanted Emissions

Specification:	FCC Part 27.53 (l)(n)
Test Results:	Pass

9.4.1 Definitions and Limit

According to Part 27.53 (n):

The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(1) For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed –40 dBm/MHz.

According to Part 27.53 (I):

The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz.

9.3.2 Method of Measurements:

For 3450-3550 MHz band:

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. In the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. Notwithstanding the channel edge requirement of –13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed –40 dBm/MHz.

For 3700-3980 MHz band:

the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For MIMO mode configurations , the limit was adjusted with a correction of -6.02dB [10log1/4)] by using the Measure and Add 10log (N) dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting





for simultaneous transmission from antenna ports.

Spectrum analyzer detector was set as RMS.

Note: For 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed –25 dBm/MHz,and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed –40 dBm/MHz.However, as the test link is the same, the conducted unwanted emissions below 3440MHz or above 3560MHz are tested together.

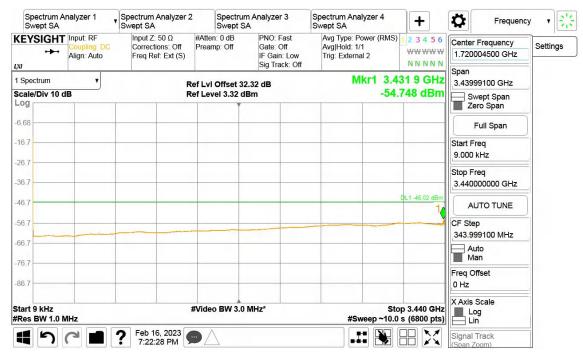
9.4.3 Measurement result

B77G NR mode:

Configuration NR-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
A	В	64QAM	20	1000	-46.02
A	Т	64QAM	20	1000	-46.02

Test figure as below:

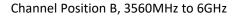


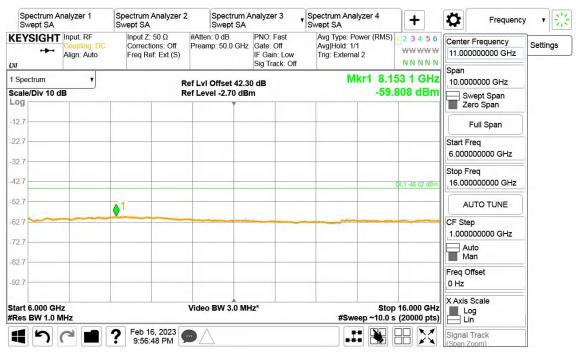
Channel Position B, 9kHz to 3440MHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer : Swept SA	2 Spectrum A Swept SA	nalyzer 3	Spectrum Analyzer 4 Swept SA	+	Amplitude	•
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 4 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Mech Atten 4 dB Auto	Y Scale
1 Spectrum			Ref LvI Offset 32.3	1 dB	Mkr1 3.7	35 3 GHz	Man	Attenuation
Scale/Div 10 c	В		Ref Level -12.69 de		-63	792 dBm	Elec Atten 0 dB	Signal Pat
-22.7							Enabled	
32.7						0L1 -46.02 dBm	Mech Atten Step 2 dB 10 dB	
52.7	1					UL1 -46.02 dBm	Max Mixer Level -10.00 dBm	
-62.7				~~			Max Mixer Lvl Rules Normal v	
-82.7								
-92.7	_			_				
-103								
Start 3.560 GH Res BW 1.0 M			Video BW 3.0 MH	łz*		op 6.000 GHz s (4900 pts)		
45	6	? Feb 16, 2023 7:25:34 PM						



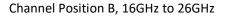


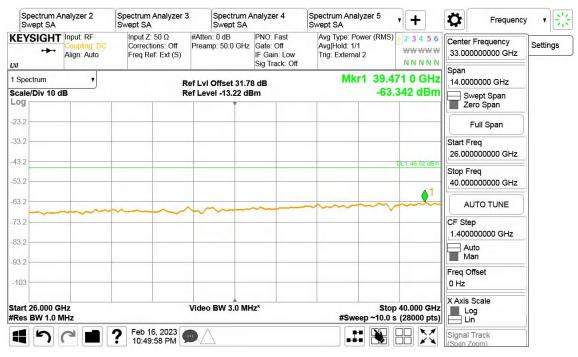
Channel Position B, 6GHz to 16GHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer : Swept SA	2 Spectrum A Swept SA	Analyzer 3	Spectrum Analyzer 4 Swept SA	• +	Display	· · ·
	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Select Display Line Display Line 1	Meas Display View
Spectrum	•	5	Ref LvI Offset 30.8	2 dB	Mkr1 25.4	13 5 GHz	Display Line	View
cale/Div 10 d	в		Ref Level -14.18 di		-68.	123 dBm	-46.02 dBm	Annotatio
_og							On Off	
34.2							Select Freq Line	
44.2						DL1-46.02 dBm	Freq Line 1 Freq Line	
54.2							1.0000 GHz	_
64.2						● ¹	On Off	
74.2								
84.2								
94.2								
-104				-				
tart 16.000 G Res BW 1.0 N			Video BW 3.0 MH	łz*	Stoj #Sweep ~10.0	o 26.000 GHz s (20000 pts)		
15		? Feb 16, 2023 10:23:13 PM						





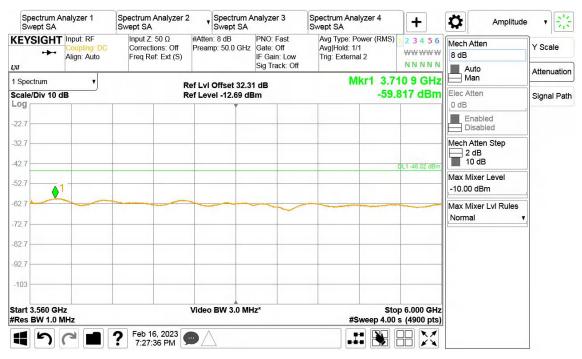
Channel Position B, 26GHz to 40GHz





Spectrum Swept SA	Analyzer 1	Spectrum Analyzer 2 Swept SA	Spectrum Analyzer 3 Swept SA	Spectrum Analyzer 4 Swept SA	+	Frequenc	y v];
	Input: RF Coupling. DC Align: Auto		Atten: 0 dB PNO: Fast Preamp: Off Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Center Frequency 1.720004500 GHz	Settings
Spectrum	v		LvI Offset 32.32 dB		65 6 GHz	0.40000112	
ale/Div 10	dB	Ret	Level 3.32 dBm	-56.	453 dBm	Swept Span Zero Span	
68					-	Full Span	
6.7						Start Freq 9.000 kHz	
5.7 <u> </u>						Stop Freq 3.440000000 GHz	
6.7					DL1 -46.02 dBm	AUTO TUNE	
3.7						CF Step 343.999100 MHz	
5.7 5.7						Auto Man	
6.7	_					Freq Offset 0 Hz	
art 9 kHz Res BW 1.0	MHz	#\	/ideo BW 3.0 MHz*	Sto #Sweep ~10.0	op 3.440 GHz s (6800 pts)		
	C 1	? Feb 16, 2023 7:28:10 PM				Signal Track	

Channel Position T, 9kHz to 3440MHz



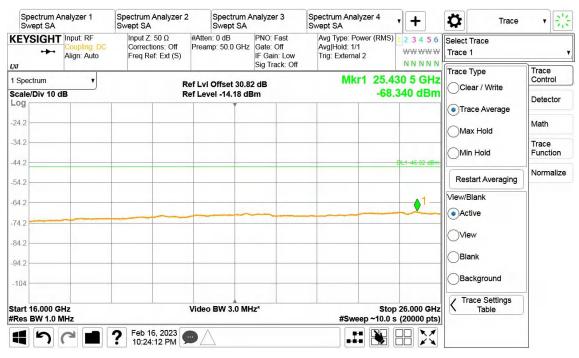
Channel Position T, 3560MHz to 6GHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer : Swept SA	2 Spectrum Swept SA		Spectrum Analyzer 4 Swept SA	+	Frequenc	y •
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (R Avg Hold: 1/1 Trig: External 2	MS) 1 2 3 4 5 6 WWWWW NNNN	Center Frequency 11.00000000 GHz	Settings
Spectrum	T	F	Ref LvI Offset 42.3	30 dB		0.628 2 GHz	10.000000000112	
cale/Div 10 d	IB	F	Ref Level -2.70 dE	Im		56.952 dBm	Swept Span Zero Span	-
12.7							Full Span	1
22.7							Start Freq	<u>/</u>
32.7							6.00000000 GHz	_
42.7						DL1 -46.02 dBm	Stop Freq 16.00000000 GHz	
52.7			1				AUTO TUNE]
62.7			-				CF Step 1.00000000 GHz	
72.7							Auto Man	-1
92.7							Freq Offset 0 Hz	
tart 6.000 GH Res BW 1.0 M			Video BW 3.0 M	Hz*		Stop 16.000 GHz 0.0 s (20000 pts)	X Axis Scale	2
		? Feb 16, 2023 9:58:03 PM			#Sweep~1		Signal Track	

Channel Position T, 6GHz to 16GHz



Channel Position T, 16GHz to 26GHz





Spectrum Ar Swept SA	nalyzer 2	Spectrum Analyz Swept SA	er 3	Spectrum A Swept SA	nalyzer 4	Spectrum Analy Swept SA	zer 5	• +	\mathbf{Q}	Frequency	/ • [·
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Of Freq Ref: Ext (f Pream	n: 0 dB np: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Pov Avg Hold: 1/1 Trig: External		1 2 3 4 5 6		equency 0000 GHz	Setting
Spectrum	Rei LVI Oliset 31.76 dB					Span 14.0000000 GHz					
cale/Div 10 dl .og	В		Ref Lev	vel -13.22 dE	Bm		-63.1	134 dBm	Swep Zero	t Span Span	
23.2	_								Full	Span	
33.2							-		Start Freq 26.00000	0000 GHz	
53.2								QL1 -46.02 dBm	Stop Freq 40.00000	0000 GHz	
63.2		~ ~	~~	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~	- l	AUTO	DTUNE	
73.2									CF Step 1.400000	000 GHz	
33.2									Auto Man		
103									Freq Offse 0 Hz	t	
tart 26.000 GH Res BW 1.0 M			Video	BW 3.0 MH	lz*	#Sw00		40.000 GHz (28000 pts)	X Axis Sca	ale	
		? Feb 16, 2023 10:51:38 PM				#Swee			Signal Tra	ck	

Channel Position T, 26GHz to 40GHz





Configuration NR-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
A	В	64QAM	30	1000	-46.02
А	Т	64QAM	30	1000	-46.02

Test figure as below:

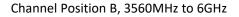
Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectrur Swept S	n Analyzer 3 A	Spectrum Analyzer 4 Swept SA	+	\mathbf{Q}	Frequency	· •
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	1.7200	Frequency 04500 GHz	Settings
Spectrum	•		Ref LvI Offset 32	2.32 dB	Mkr1 3.2		0.4000	9100 GHz	
cale/Div 10 d	IB		Ref Level 3.32 d	Bm	-56.	506 dBm	Jw	ept Span ro Span	
6.68								ull Span	
16.7							Start Fr 9.000 P	2.2	
36.7							Stop Fr 3.4400	eq 00000 GHz	
46.7						DL1-46.02 dBm	AL	TO TUNE	
56.7							CF Step 343.99	9100 MHz	
66.7 76.7							Au Ma		
86.7							Freq Of 0 Hz	fset	
tart 9 kHz Res BW 1.0 M	ИНz		#Video BW 3.0	MHz*	Sto #Sweep ~10.0	p 3.440 GHz s (6800 pts)	X Axis S	9	
45	6	? Feb 16, 2023 7:28:48 PM					Signal T	rack	1

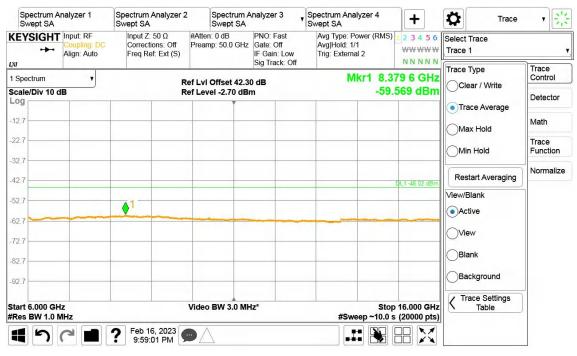
Channel Position B, 9kHz to 3440MHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	Spectrum A Swept SA	nalyzer 3	Spectrum Analyzer 4 Swept SA	+	Amplitude	· • 👬
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 8 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Mech Atten 8 dB Auto	Y Scale
Spectrum	v	-	Ref LvI Offset 32.3	1 dB	Mkr1 3.7	28 3 GHz	Man	Attenuatio
Scale/Div 10 d	В		Ref Level -12.69 dE		-59.	811 dBm	Elec Atten 0 dB	Signal Pa
.22.7						-	Enabled Disabled	
32.7							Mech Atten Step	
52.7	1					DL1 -46.02 dBm	Max Mixer Level -10.00 dBm	
-62.7				~			Max Mixer Lvl Rules Normal v	
82.7	-			_				
-92.7	-							
-103								
Start 3.560 GH Res BW 1.0 M			Video BW 3.0 MH	z*	Sto #Sweep 4.00	p 6.000 GHz s (4900 pts)		
15		? Feb 16, 2023 7:29:20 PM						



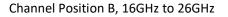


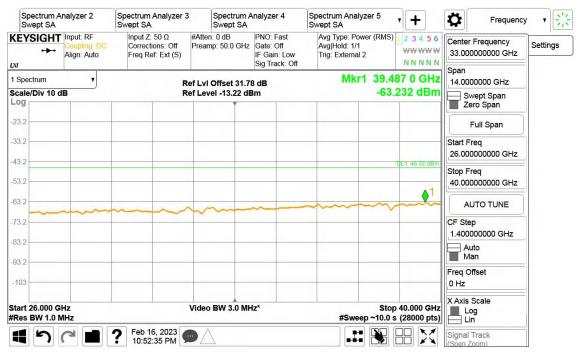
Channel Position B, 6GHz to 16GHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyze Swept SA	er 2 Spectrum Swept SA	Analyzer 3	Spectrum Analyzer 4 Swept SA	• +	Trace	• E
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Select Trace Trace 1	
Spectrum	T		Ref LvI Offset 30.1			87 0 GHz	Trace Type	Trace Control
cale/Div 10 c	B		Ref Level -14.18 d	Bm	-68.	.381 dBm	Trace Average	Detector
24.2							Max Hold	Math
34.2								Trace Function
44.2						BL1 -46.02 dBm		Normaliz
54.2							Restart Averaging	Normaliz
64.2						1	View/Blank	
74.2							View	
84.2								
94.2							Blank	
-104							Background	
tart 16.000 G		<u> </u>	Video BW 3.0 M	Hz*	Stoj #Sweep ~10.0	o 26.000 GHz s (20000 pts))
15	C 1	? Feb 16, 2023 10:24:58 PM						





Channel Position B, 26GHz to 40GHz





Spectrum / Swept SA	Analyzer 1	Spectrum Analyzer Swept SA	2 Spectrum Swept SA	Analyzer 3	Spectrum Analyzer 4 Swept SA	+	Frequenc	у •]
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Center Frequency 1.720004500 GHz	Settings
Spectrum	v		Ref LvI Offset 32.		Mkr1 2.5		0.40000112	
ale/Div 10	dB		Ref Level 3.32 dE	ßm	-56.	182 dBm	Swept Span Zero Span	
68							Full Span	
6.7							Start Freq 9.000 kHz	
6.7							Stop Freq 3.440000000 GHz	
6.7	-				A1	DL1-46.02 dBm	AUTO TUNE	
6.7					● ¹		CF Step 343.999100 MHz	
6.7							Auto Man	
6.7							Freq Offset 0 Hz	
art 9 kHz tes BW 1.0	MHz		#Video BW 3.0 I	MHz*	Sto #Sweep ~10.0	op 3.440 GHz		
15	C ⁴	? Feb 16, 2023 7:30:34 PM					Signal Track	

Channel Position T, 9kHz to 3440MHz

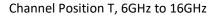
Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	Spectrum A Swept SA	nalyzer 3	Spectrum Analyzer 4 Swept SA	+	Amplitude	•
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 8 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Mech Atten 8 dB	Y Scale
Spectrum					Mkr1 3.5		Auto Man	Attenuatio
Scale/Div 10 c	iB		ef Lvi Offset 32.3 ef Level -12.69 de			478 dBm	Elec Atten	Signal Pat
.og							0 dB	
22.7						-	Disabled	
32.7							Mech Atten Step	
42.7						DL1 -46.02 dBm	2 dB 10 dB	
52.7							Max Mixer Level	
62.7								
							Max Mixer Lvl Rules Normal	
72.7								
82.7								
92.7								
-103								
-105								
tart 3.560 GH Res BW 1.0 I			Video BW 3.0 MH	z*	Sto #Sweep 4.00	op 6.000 GHz		
		7 Feb 16, 2023			#3Weep 4.00			
45		7:30:09 PM						

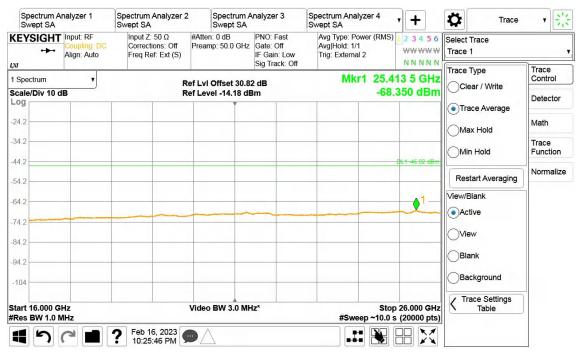
Channel Position T, 3560MHz to 6GHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectrue Swept S	n Analyzer 3 A	Spectrum Analyzer 4 Swept SA	+	Trace	× 3
KEYSIGHT	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: 50.0 G	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS Avg Hold: 1/1 Trig: External 2) 1 2 3 4 5 6 WWWWW NNNN	Select Trace Trace 1	
xi I Spectrum	•		Ref LvI Offset 4	0	Mkr1 10.6		Trace Type	Trace Control
cale/Div 10 c	iB		Ref Level -2.70	iBm	-55	.378 dBm		Detector
12.7							Trace Average	Math
22.7							Max Hold	Trace
32.7							Min Hold	Function
42.7						DL1 -46.02 dBm	Restart Averaging	Normaliz
52.7			<u></u> 1			UL1 -46.02 dBm	View/Blank	
62.7							Active	
72.7							View	
							Blank	
82.7							Background	
-92.7							Trace Settings	
Start 6.000 GH			Video BW 3.0	MHz*	Sto #Sweep ~10.0	p 16.000 GHz s (20000 pts)	Table	
15		? Feb 16, 2023 9:59:52 PM						





Channel Position T, 16GHz to 26GHz





Spectrum A Swept SA	nalyzer 2	Spectrum Analyzer Swept SA	3 Spectrum A Swept SA	Analyzer 4	Spectrum Analyze Swept SA	r5 • +	Frequen	cy 🔻 📑
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: 50.0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power Avg Hold: 1/1 Trig: External 2	(RMS) 1 2 3 4 5 0 WWWWW	A ^A 33.00000000 GHz	Settings
1 Spectrum	•	F	Ref LvI Offset 31.7	8 dB	Mkr1	39.487 0 GH	Span 2 14.0000000 GHz	
cale/Div 10 d	IB	F	Ref Level -13.22 de	Bm		-63.297 dBr	Swept Span Zero Span	_
23.2	_						Full Span	
33.2							Start Freq 26.000000000 GHz	
53.2						D/L1 -46.02 dB	Stop Freq 40.000000000 GHz	2
63.2				~			AUTO TUNE	
73.2							CF Step 1.40000000 GHz	
93.2							Auto Man	
.103							Freq Offset 0 Hz	
Start 26.000 G			Video BW 3.0 MH	z*	#Sween	Stop 40.000 GH ~10.0 s (28000 pts		
	C 🔳	? Feb 16, 2023 10:53:14 PM					Signal Track	

Channel Position T, 26GHz to 40GHz





Configuration NR-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
A	В	64QAM	40	1000	-46.02
A	Т	64QAM	40	1000	-46.02

Test figure as below:

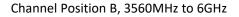
Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectru Swept S	m Analyzer 3 SA	Spectrum Analyzer 4 Swept SA	+	\mathbf{Q}	Frequency	/ •
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S)	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	1.7200	Frequency 004500 GHz	Settings
I Spectrum	•		Ref LvI Offset 3	2.32 dB	Mkr1 3.4		0.400.	9100 GHz	
cale/Div 10 d	В	F	Ref Level 3.32 d	IBm	-54.	598 dBm		vept Span	
							Ze	ero Span	
3.68								Full Span	
26.7							Start Fi 9.000		
36.7							Stop Fi 3.4400	req 000000 GHz	
16.7						DL1 -46.02 dBm	A	JTO TUNE	
56.7							CF Ste 343.99	p 99100 MHz	
76.7							AL Ma		
86.7							Freq O 0 Hz	ffset	
tart 9 kHz Res BW 1.0 M	/Hz		#Video BW 3.0	MHz*	Sto #Sweep ~10.0	op 3.440 GHz s (6800 pts)	X Axis	g	
15		? Feb 16, 2023 7:31:11 PM					Signal (Span Z	Track]

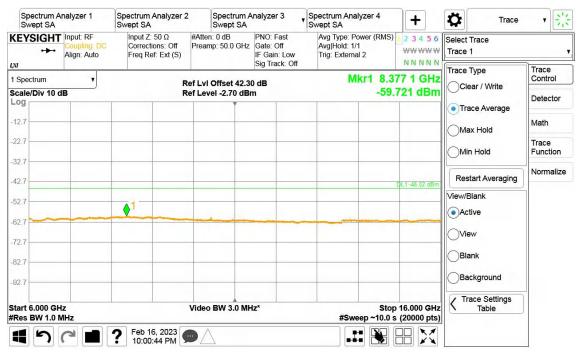
Channel Position B, 9kHz to 3440MHz





KEYSIGHT Input RF Corrections: Off Align: Auto Input Z: 50 Ω Corrections: Off Freq Ref. Ext (S) #Atten: 8 dB Preamp: 50.0 GHz PNO: Fast Gate: Off Fig Gate: Off Sig Track: Off Avg Type: Power (RMS) Avg Hold: 1/1 12.3 4.5 6 WWWWW Mech Atten 8 dB Y Scale 1 Spectrum Imput Z: 50 Ω Align: Auto Ref Lvi Offset 32.31 dB Ref Level -12.69 dBm Mkr1 3.709 9 GHz Auto Man Attenual 22.7 Imput Z: 50 Ω Imput Z: 50 Ω <t< th=""><th>Spectrum A Swept SA</th><th>nalyzer 1</th><th>Spectrum Analyzer 2 Swept SA</th><th>Spectrum A Swept SA</th><th>nalyzer 3</th><th>Spectrum Analyzer 4 Swept SA</th><th>+</th><th>Amplitude</th><th>• •</th></t<>	Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	Spectrum A Swept SA	nalyzer 3	Spectrum Analyzer 4 Swept SA	+	Amplitude	• •
Attended Scale/Div 10 dB Ref Level -12.69 dBm -59.807 dBm 0 g 22.7 2.7	+	Coupling DC	Corrections: Off		Gate: Off IF Gain: Low	Avg Hold: 1/1	wwwww	8 dB	
Signal F Signal F Column		•		of Lyl Offect 32.3	1 dB	Mkr1 3.7	09 9 GHz		Attenuatio
22.7 32.7 32.7 42.7 52.7		В				-59.	807 dBm	and a first of the bolishing	Signal Pa
42.7 DLT 46 02 dBm 52.7 1 62.7 1 72.7 1 82.7 1 92.7 1							-	Enabled	
52.7 62.7 72.7 82.7 92.7 92.7 92.7								2 dB	
72.7 82.7 92.7							QL1 -46.02 dBm	Max Mixer Level	
92.7					~~				
	82.7								
-103	-92.7	-							
	-103								
Start 3.560 GHz Video BW 3.0 MHz* Stop 6.000 GHz #Res BW 1.0 MHz #Sweep 4.00 s (4900 pts) #Sweep 4.00 s (4900 pts)				Video BW 3.0 MH	łz*				



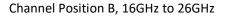


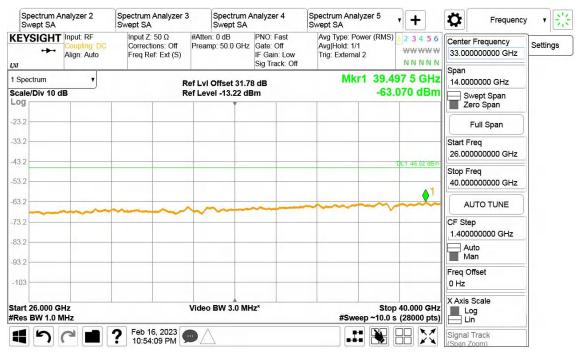
Channel Position B, 6GHz to 16GHz





Spectrum A Swept SA	nalyzer 1	Spectrum Analyze Swept SA	r 2 Spectrum Swept SA	Analyzer 3	Spectrum Analyzer 4 Swept SA	+	Trace	• 🗦
	Input: RF Coupling DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Ext (S	#Atten: 0 dB Preamp: 50.0 GH	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (RMS) Avg Hold: 1/1 Trig: External 2	1 2 3 4 5 6	Select Trace Trace 1	'
I Spectrum	T		Ref LvI Offset 30.		Mkr1 25.4	24 0 GHz	Trace Type	Trace Control
cale/Div 10 d	IB		Ref Level -14.18 c	IBm	-68	.449 dBm	Trace Average	Detector
24.2							Max Hold	Math
34.2								Trace Function
44.2						DL1 -46.02 dBm		Normaliz
54.2	_						Restart Averaging	Normaliz
64.2						1	View/Blank	
74.2								
84.2	_						View	
94.2	-		_				Blank	
-104							Background	
tart 16.000 G Res BW 1.0 M			Video BW 3.0 M	Hz*	Sto #Sweep ~10.0	p 26.000 GHz		
15		? Feb 16, 2023 10:26:32 PM					1	





Channel Position B, 26GHz to 40GHz