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## HSUPA\_B2\_LowCH9262-1852.4

									malyzer - Sw		ysight Sp	- Ke
Frequency	TRACE 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Ty	Bun	Trig: Free		00000 GH	50 D	req	nter F	Cen
Auto Tune	50 6 GHz	(r1 1.85	Mk		dB	#Atten: 4	łO:Fast ⊆ 5ain:Low	dB	Offset 14		B/div	10 d
Center Free 1.515000000 GH				<b>♦</b> <sup>1</sup>								27.0 27.0 17.0 7.00
Start Fre 30.000000 MH	DL1 -13.00 dBm											3.00 13.0 23.0
Stop Fre 3.000000000 GH										5 - A		33.0 43.0 53.0
CF Ste 297.000000 MH Auto Ma	p 3.000 GHz s (1001 pts)	.600 ms (	Sweep 3	NOTION F		1.0 MHz	#VBW	×	ЛНz	1.0	s BW	Re
Freq Offse					Bm	21.58 di	5 GHz	1.850		1	N	1 2 3 4 5 6
Scale Typ												7 8 9 10 11
	,	5			-	10					_	4

## HSUPA\_B2\_MidCH9400-1880

🔤 Keysight Sp	ectrum A		pt SA								_	
R Center F	Freq 1	50 Ω 1.51500	0000 GH	z		VSE:ONT	Avg 1	ALIGN AUTO	TR/	OE 1 2 3 4 5 6		quency
10 dB/div		Offset 14 37.00 d	dB	NO: Fast C Sain:Low	#Atten: 4			N	lkr1 1.88	0 3 GHz 49 dBm		Auto Tune
27.0 17.0 7.00							• <sup>1</sup>					enter Fred 000000 GH;
-3.00 -13.0 -23.0					pa Alamage Sede					DL1 -13.00 eBm	30.	Start Free
-33.0 -43.0 -53.0		<b>449</b> 07 (0, 100 (0, 10									3.000	Stop Free
Start 0.0 #Res BW	1.0	NHz	×	#VB	W 1.0 MHz		INGTION	Sweep	3.600 ms	3.000 GHz (1001 pts)	297. <u>Auto</u>	CF Ste 000000 MH Ma
1 N 2 3 4 5 6 7 8	1 1		1.880	3 GHz	20.49 di	Bm				<u> </u>	F	req Offse 0 H
7 8 9 10											Log	Scale Type
-									1	· ·		
08N								to sta	rus			

## HSUPA\_B2\_HighCH9538-1907.6

								wept SA	rum Analyzer - 1	rsight Spect	in Ke
Frequency	RACE 1 2 3 4 5 6	TRA	Log-Pwr	Avg Ty	NSE:INT		Hz	000000 G	q 1.5150	ter Fre	Cen
Auto Tune	10 0 GHz 0.35 dBm	ہ kr1 1.91	МК		e Run 0 dB	#Atten: 4	PNO: Fast C Gain:Low	14 dB	Ref Offset		10 d
Center Fred 1.515000000 GHz				•1-							27.0 17.0 7.00
Start Free 30.000000 MHz	DL1-13.00 tBm	Marcaine are bill									-3.00 -13.0 -23.0
Stop Free 3.000000000 GH							Mara Balanta In	Langen Ignander ver	**************************************	-	-33.0 -43.0 -63.0
СF Step 297.000000 МН <u>Ашto</u> Мат	o 3.000 GHz s (1001 pts)	3.600 ms (	Sweep 3	CTION T F		V 1.0 MHz		×	.0 MHz	t0.030 sBW 1	#Re
Freq Offse 0 H					Bm	20.35 d	0 GHz	1.91	1	N 1	2 3 4 5 6
Scale Type											6 7 8 9 10
		15	<b>K</b> STATU:	-	'	10			1	1	к

## WCDMA\_B4\_LowCH1312-1712.4

Keysight Spectrum Analyzer - Swept					
Center Freq 1.515000	000 GHz	Avg T	ype: Log-Pwr	08:07:40 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 d 10 dB/div Ref 37.00 dB	PNO: Fast Trig: Free IFGein:Low #Atten: 4 B	e Run 0 dB	Mk	1 1.711 0 GHz 21.70 dBm	Auto Tun
27.0 17.0 7.00		<b>↓</b> <sup>1</sup>			Center Fre 1.515000000 GH
3.00				DL1 -13.00 eBm	Start Fre 30.000000 MH
33.0 10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	auronongi atomi alan di kapina yang kana na kapina paka	argan linear	wywydan 11957/1796	7	Stop Fre 3.000000000 GH
Start 0.030 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	FUNCTION	Sweep 3.	Stop 3.000 GHz 600 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N 1 f 2 3 4 6	1.711 0 GHz 21.70 dl	Bm			Freq Offs 0 H
6 7 8 9 10					Scale Typ
11 (1) (1)			<b>E</b> status	, ,	

## WCDMA\_B4\_MidCH1413-1732.6

									nalyzer - Swep		night Sp	Key	
Frequency	24	08:09:17 PM May 15, 20 TRACE 1 2 3 4 5	ALIGN AUTO	Ava	VSE:1N	SEN		0000 GH	50 D	IU read 1	tor E	R	
Auto Tur	ž	Trig: Free Run #Atten: 40 dB Der P NNN Mkr1 1.731 8 GH						PNO: Fest IFGain:Low Ref Offset 14 dB					
	n	21.39 dBr			_						3/div	dE	
Center Fre	-11		_	<sup>1</sup>	[					-		.0	
1.515000000 GH	╢									-		0	
Start Fre												0	
30.000000 MH		DL1 -13.00 et										0	
	7	gun, chailean Màr Alla ann <sub>ai</sub> n a	****	lane	ajuan	wheat-payments		~~~~~~	ورور وروم	wann	يشيب	0	
Stop Fre 3.000000000 GH	╢				<u> </u>					-		0	
												0	
CF Ste 297.000000 Mi	s)	Stop 3.000 GH 600 ms (1001 pt	Sweep 3.			1.0 MHz	#VBW			30 GH			
Auto M	A.	FUNCTION VALUE	FUNCTION WIDTH	UNCTION	3m	21.39 dE	CH7	×		X 50	N 1		
Freq Offs					-						-		
01					+						-		
Scale Typ					+		_				+	ŀ	
.og <u>L</u>	ī.												
			<b>E</b> STATUS			**					_		

## WCDMA\_B4\_HighCH1513-1752.6

									nalyzer - Swe		ysight S	
Frequency	E 1 2 3 4 5 6	TRAC	pe: Log-Pwr	Avg	SE:INT		z	0000 GH	.51500	req 1	nter l	Cer
Auto Tune	2 6 GHz 24 dBm	r1 1.752	Mk		dB	#Atten: 40	O: Fast 🔸	dB	Offset 14 37.00 d		B/div	
Center Freq 1.515000000 GHz				۱ <u> </u>								27.0 27.0 17.0 7.00
Start Freq 30.000000 MHz	DL1 -13.00 dBm											-3.00 -13.0
Stop Freq 3.000000000 GHz			-118-18-198-0-1970-14-	-per-v	-t-amer	lalaihitein sintia <b>t</b> us	inan-narny#k	ماندينية <del>لمعييميا في</del>	.ئا <u>ئۇرىرىي</u> اتىرەكى	*****		-33.0 -43.0 -53.0
CF Step 297.000000 MHz <u>Auto</u> Man		Stop 3. 600 ms (1	Sweep 3	INCTION		1.0 MHz	#VBW	×		30 GH	s BV	#Re
Freq Offset 0 Hz					im.	21.24 dE	GHz	1.752		1 1	N	123456
Scale Type	≣!											7 8 9 10
	•	1	<b>K</b> STATUS		÷.						_	<

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## HSDPA\_B4\_LowCH1312-1712.4

Keysight Spectrum Analyzer - Swept SA				
Center Freq 1.515000000	) GHz	Avg Type: Log-F		Frequency
Ref Offset 14 dB 10 dB/div Ref 37.00 dBm	PNO: Fast Trig: Free R IFGain:Low #Atten: 40 d	1B	Mkr1 1.711 0 GHz 21.20 dBm	Auto Tune
27.0 17.0 7.00		↓ 1		Center Free 1.515000000 GHz
-3.00		La La contration	DL1 -13.00 dBm	Start Free 30.000000 MHz
-33.0				Stop Free 3.000000000 GH:
Start 0.030 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	FUNCTION FUNCTION W	Stop 3.000 GHz 3.600 ms (1001 pts) OTH FUNCTION VALUE	CF Step 297.000000 MH Auto Mar
1 N 1 f 1 2	.711 0 GHz 21.20 dBm			Freq Offse
7 8 9 10 11				Scale Type
MBG	10	<b>10</b> 8	TATUS	L

## HSDPA\_B4\_MidCH1413-1732.6

🔤 Keysight Sp	ectrum A		ipt SA										0 0 0
Center F	reg 1	50 D	0000 GH	z		INSE:INT			Log-Pwr	TRA	M May 15, 2024 E 1 2 3 4 5 6		equency
10 dB/div		Offset 14 37.00 d	dB	NO: Fast Sain:Low	#Atten:				M	(r1 1.73	1 8 GHz 15 dBm		Auto Tune
27.0 17.0 7.00							¢¹						Center Free 5000000 GH;
-3.00 -13.0 -23.0	-							- ben di Kod	. ne dibe		DL1 -13.00 dBm	30	Start Free
-43.0 -53.0		تاهيبور ۽ هندن	and the all and a	hanger feitler								3.00	Stop Free
Start 0.0 #Res BW	1.0 1	ЛНz		#VE	3W 1.0 MH		an mark		Sweep 3	.600 ms (	.000 GHz 1001 pts)	297 Auto	CF Ste 000000 MH Ma
1 N 2 3	1 1		1.731	8 GHz	21.15 c				CIONWOIH	FUNCT	e and a second sec		Freq Offse 0 H
4 5 7 8 9 10 11												Log	Scale Typ
·	-				10					-	· ·		
490										8			

## HSDPA\_B4\_HighCH1513-1752.6

Keysight spectrum A					
Center Freq 1	.515000000 GHz	SENSE:31	Avg Type: Log-Pwr	08:40:27 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref 10 dB/div Ref	PNC	: Fast Trig: Free Run in:Low #Atten: 40 dB	kr1 1.752 6 GHz 20.51 dBm	Auto Tune	
27.0 17.0 7.00			•1		Center Fred 1.515000000 GH:
-3.00				0L1 -13.00 eBm	Start Free 30.000000 MH;
-33.0 <b>Local Anna 4</b> -43.0 -63.0	aluestan bergin yan menyakalar me	silan union opilanman pianta	nin Jahani sini nina kata ana		Stop Free 3.000000000 GH
Start 0.030 GH #Res BW 1.0 M	1Hz	#VBW 1.0 MHz	Sweep 3	Stop 3.000 GHz 3.600 ms (1001 pts)	СF Step 297.000000 МН <u>Ашto</u> Ма
1 N 1 f 2 3	1.752 6	GHz 20.51 dBm			Freq Offse 0 H
4 6 7 8 9 10 11					Scale Type
* L			, Statu	5	

## HSUPA\_B4\_LowCH1312-1712.4

Keysight Spectrum Analyzer - Swept SA				
Center Freq 1.515000000	GHz PNO: Fast and Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr	08:44:40 PM May 15, 2024 TRACE 1 2 3 4 5 6 TUPE M WWWWWW	Frequency
Ref Offset 14 dB	PN0: Fast Trig: Free Run IFGein:Low #Atten: 40 dB	м	kr1 1.714 0 GHz 20.48 dBm	Auto Tur
27.0 17.0 7.00		1		Center Fre 1.515000000 GF
3.00			DL1 -13.00 aBm	Start Fr 30.000000 M
33.0 <b>6-31000-12-000-101-000-101-000</b>	لار و هنایه ساز سور هر دار باز از دار و های در از مراجع می از مراجع می از مراجع می مراجع می مراجع می مراجع می	Lana adalarin katar	alen jähjäl aifan sei frem yoteline joh	Stop Fr 3.00000000 G
tart 0.030 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3	Stop 3.000 GHz 3.600 ms (1001 pts)	CF St 297.000000 M Auto M
1 N 1 f 1. 2 3 4 5 5	714.0 GHz 20.48 dBm			Freq Offs 0
6 7 8 9 10				Scale Ty
		Constatu	· · · ·	-

## HSUPA\_B4\_MidCH1413-1732.6

Keysight Sp	ectrum Analyzer										
R Center F		5000000 GI	łz	Trig: Free R		Avg Type	Log-Pwr	TRA	MMay 15, 2024	L	quency
0 dB/div	Ref Offse Ref 37.0	t 14 dB	NO: Fast Gain:Low	#Atten: 40 d	B		Mk	r1 1.73	4 8 GHz 18 dBm		Auto Tune
7.0					† <sup>1</sup>						enter Free
3.0								B 4 million	DL1 -13.00 dBm		Start Fre
	a an	مهرمان المراجع الماريي ويصري	99-14-14-14-14-14-14-14-14-14-14-14-14-14-		Verselaus					3.000	Stop Fre
art 0.03 Res BW	1.0 MHz	*	#VBW	/ 1.0 MHz			Sweep 3	.600 ms (	.000 GHz 1001 pts)	297. <u>Auto</u>	CF Ste 000000 MH Ma
1 N 2 3	1		8 GHz	20.18 dBm			enonwork	FUNCT	ok value A	F	req Offse 0 H
5 6 7 8 9 0											cale Typ
0							_			Log	Lir
6											

## HSUPA\_B4\_HighCH1513-1752.6

📥 Keysight :													
Center	Freq		0 0 DC	GHz	Tria	SENSE:IN		Avg	Type: Log-Pwr	TRA	MMay 15, 2024		requency
10 dB/div		f Offset	14 dB 0 dBm	PNO: Fast IFGain:Low		n: 40 dB			м	₀ 1.75 rr1	ET P NNNN	í	Auto Tune
27.0 17.0 7.00							-•1						Center Freq 5000000 GHz
-3.00											DL1 -13.00 dBm	3	Start Freq 0.000000 MHz
-33.0 <b>2400</b> -43.0 -63.0	*****	******	-190,00,0180	4	, and a second s	www.wikite	whate	~~~~				3.00	Stop Freq 0000000 GHz
Start 0.0 #Res B\	N 1.0	MHz		#V	/BW 1.0 M	IHz	ELINC	ion.	Sweep 3	1.600 ms (	.000 GHz 1001 pts)	29 Auto	CF Step 7.000000 MHz Man
1 N 2 3 4 5 6	1 1		1.7	'62 6 GHz	20.2	2 dBm					_		Freq Offset 0 Hz
0 7 8 9 10 11											=	Log	Scale Type
·		'									-		
M9G									<b>K</b> STATU	5			

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## WCDMA\_B5\_LowCH4132-826.4

🔤 Keysight Sp	ectrum Analyzer -										
Center F		000000 GH			E:INT	Avg Typ	Log-Pwr	TRA	OE 1 2 3 4 5 6		equency
10 dB/div	Ref Offset Ref 36.8	13.8 dB	0:Fast G ain:Low	#Atten: 40			м	(r3 2.47	9 2 GHz 17 dBm	1	Auto Tune
26.8 16.0		^1									enter Fred
-3.20 -13.2 -23.2					2 <sup>2</sup>	and an and a state of the state	a second and a second and	<b>♦</b> <sup>3</sup>	DL1 -12.00 dBn	30	Start Free
-33.2 44444 -43.2 -53.2										3.000	Stop Free
Start 0.03 #Res BW	1.0 MHz		#VB\	W 1.0 MHz				8.600 ms	3.000 GHz (1001 pts)	297 Auto	CF Step .000000 MH
1 N 2 N 3 N 4 5		× 826.0 1.652.8 2.479.2	GHz	22.34 dB -27.59 dB -25.17 dB	m	CTION	ICTION WIDTH	FUNCT	ION WALUE	[	Freq Offse 0 H
7 8 9 10 11										Log	Scale Type
<								5			

## WCDMA\_B5\_MidCH4183-836.6

Keysight Spectrum Analyzer - Swept SA					
R N 50 0 00 Center Freg 1.515000000	GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:16:43 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	м	kr3 2.509 8 GHz -25.41 dBm	Auto Tune
og 26.0 16.0 6.90	1				Center Fre 1.515000000 GH
3.20		<sup>2</sup>	1	3 0.1 -12.00 aBm	Start Fre 30.000000 MF
33.2					Stop Fre 3.00000000 Gł
tart 0.030 GHz Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 3	Stop 3.000 GHz 3.600 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N 1 f 8 2 N 1 f 1.6 3 N 1 f 2.6	37.8 MHz 73 2 GHz 09 8 GHz	22.36 dBm -28.20 dBm -25.41 dBm			Freq Offs 0 H
4 5 6 7 8 9 9					Scale Typ
< [					

## WCDMA\_B5\_HighCH4233-846.6

Keysight Spectrum Analyzer - Sw	rept SA				
Center Freq 1.51500	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:20:18 PM May 15, 2024 TRACE 1 2 3 4 5 6 TVPE MWWWWWW	Frequency
Ref Offset 13 10 dB/div Ref 36.80		⊐ Trig: Free Run #Atten: 40 dB	м	(r3 2.539 8 GHz -25.24 dBm	Auto Tune
268 16.8					Center Free 1.51500000 GHz
-3.20		<sup>2</sup>		04.1 -13.00 alim	Start Free 30.000000 MHz
-33.2 -43.2 -63.2	a jagi suudema (nederu een gangangan				Stop Free 3.000000000 GH
Start 0.030 GHz #Res BW 1.0 MHz	×		Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Step 297.000000 MH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 6 6	846.8 MHz 1.693 2 GHz 2.539 8 GHz	22.42 dBm -27.30 dBm -25.24 dBm			Freq Offse 0 H
0 7 8 9 10					Scale Type
Miso	1			8	

## HSDPA\_B5\_LowCH4132-826.4

Keysight Spectrum Analyzer - Swept					
Center Freg 1.515000	000 GHz	SENSE:INT	Aug Type: Log-Pwr	08:22:47 PM May 15, 2024 TRACE 1 2 3 4 5 6 TUPE N WWWWW	Frequency
Ref Offset 13.8 10 dB/div Ref 36.80 dB		⇒ Trig: Free Run #Atten: 40 dB	М	(r3 2.479 2 GHz -25.33 dBm	Auto Tun
09 26.8 16.9					Center Fre 1.515000000 GH
3.20 3.22 23.2			الم	3 04.1 -12.00 dBm	Start Fre 30.000000 MH
33.2 43.2 53.2	and the second				Stop Fre 3.000000000 GH
tart 0.030 GHz Res BW 1.0 MHz	#VB\	V 1.0 MHz	Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Ste 297.000000 Mi Auto Mi
1 N 1 f 2 N 1 f 3 N 1 f 4 6	826.0 MHz 1.652 8 GHz 2.479 2 GHz	21.99 dBm -27.41 dBm -25.33 dBm			Freq Offs 0 H
0 7 8 9 10					Scale Typ
					209 1
93				5	

## HSDPA\_B5\_MidCH4183-836.6

Keysight Spectrum Analyzer - Swept SA				
R 10 50 0 DC	GHz	ALIGN AUTO Avg Type: Log-Pwr	08:24:02 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB 0 dB/div Ref 36.80 dBm	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mkr	2.509 8 GHz -25.56 dBm	Auto Tun
25.0 16.0 5.00				Center Fre 1.515000000 GH
3.2	°		3 3	Start Free 30.000000 MH
3.2 ************************************				Stop Fre 3.000000000 GH
tart 0.030 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3.6	Stop 3.000 GHz 00 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N 1 f 8 2 N 1 f 1.6 3 N 1 f 2.6	334.9 MHz 22.51 dBm 573.2 GHz -27.08 dBm 509.8 GHz -25.66 dBm		FUNCTION VALUE	Freq Offse 0 H
4 5 6 7 8 9 9				Scale Typ
<b>11</b>	n		,	

## HSDPA\_B5\_HighCH4233-846.6

👝 Keysight Sp	pectrum Analyzer - S					
Center F	req 1.5150		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:26:19 PM May 15, 2024 TRACE 1 2 3 4 5 6 TYPE MUMANN	
10 dB/div	Ref Offset 1 Ref 36.80	IFGain:Low 3.8 dB	#Atten: 40 dB	M	kr3 2.539 8 GHz -25.06 dBm	Auto Tune
26.8 16.8						Center Freq 1.51500000 GHz
-3.20 -13.2 -23.2			2 <sup>2</sup>		3 3	Start Freq 30.000000 MHz
43.2						Stop Freq 3.000000000 GHz
	/ 1.0 MHz	#VI	BW 1.0 MHz		Stop 3.000 GHz 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 N 3 N 4 5	RC SCL 1 f 1 f 1 f	× 846.8 MHz 1.693 2 GHz 2.639 8 GHz	21.57 dBm -26.78 dBm -25.06 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
6 7 8 9 10 11						Scale Type
<			19			
19G					8	

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## HSUPA\_B5\_LowCH4132-826.4

Keysight Spectrum Analyzer - Swept SA			
Center Freq 1.51500000	DO GHZ DO GHZ Trig: Free Run	Avg Type: Log-Pwr TRA	HMay 15, 2024 Frequency Frequency
Ref Offset 13.8 dB 10 dB/div Ref 36.80 dBm	IFGain:Low #Atten: 40 dB	Mkr3 2.47	ET P NNNNN
26.8 16.0 6.00			Center Free 1.515000000 GH
-3.20 -13.2 -23.2	and harmony protocological	3	0.1 -12.00 dBn 30.000000 MH
-33.2 -43.2 -53.2			Stop Fre 3.00000000 GH
Start 0.030 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3.600 ms (	Auto Ma
MAR AUGUS HAR SOULES	826.0 MHz 21.26 dBm 1.652 8 GHz -26.94 dBm 2.479 2 GHz -25.51 dBm	NOTION FUNCTION WOTH FUNCT	Freq Offse
7 8 9 10			Log L
1			

## HSUPA\_B5\_MidCH4183-836.6

Keysight Spectrum Analyzer - Swept SA				
R R 50 Ω DC Center Freg 1.515000000	GHz	Avg Type: Lo	IN AUTO 08:54:13 PM May 15, 2024 og-Pwr TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 36.80 dBm	PN0: Fast Trig: Free F IFGain:Low #Atten: 40 o		Mkr3 2.509 8 GHz -25.14 dBm	Auto Tun
0g 26.0 16.0 6.00				Center Fre 1.515000000 GH
3 20 13.2 23.2 attempts a substantial of a substantial		2 2	CL1 -12.00 aBm	Start Fre 30.000000 MH
43.2 53.2				Stop Fre 3.000000000 GH
Start 0.030 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	FUNCTION FUNCTION	Stop 3.000 GHz eep 3.600 ms (1001 pts)	CF Ste 297.000000 Mi Auto Mi
2 N 1 f 1.0 3 N 1 f 2.5 4 5 6	34.9 MHz 21.98 dBr 73.2 GHz -27.77 dBn 509.8 GHz -25.14 dBn	n		Freq Offs 01
7 8 9 10				Scale Typ
*	11		*	

## HSUPA\_B5\_HighCH4233-846.6

Meysight spe	ctrum Analyzer - Si									
Center Fr	reg 1.5150	00000 GH	z		E:DNT		Log-Pwr	TRA	M May 15, 2024 0E 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 1 Ref 36.80	1FG 3.8 dB	0:Fast G ain:Low	#Atten: 40			МК	r3 2.53	9 8 GHz 26 dBm	Auto Tu
26.8 16.8										Center Fr 1.515000000 G
-3.20 -13.2 -23.2					2 <sup>2</sup>		معراديا يريدن	<b>▲</b> <sup>3</sup>	CL1 -13.00 aBm	Start Fr 30.000000 M
-33.2 -43.2 -63.2	Santa Angeler Andre Ser		~~yinkiy <b>şki</b> k							Stop Fr 3.000000000 G
Start 0.03 #Res BW	1.0 MHz	×		V 1.0 MHz		TION		.600 ms (	.000 GHz 1001 pts)	CF St 297.000000 M Auto M
1 N 1 2 N 1 3 N 1 4 5 6	T T	846.8 1.693 2 2.639 8	GHz	20.93 dB -27.48 dB -25.26 dB	m					Freq Offs 0
0 7 8 9 10 11										Scale Ty
M9G				10				3	,	

## **Spurious Emission High\_**GPRS\_850MHz\_LowCH128-824.2

Keysight Spectrum Analyzer - Swept SA					
Center Freq 6.500000000	GHz	ENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	06:46:09 PN May 15, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
Ref Offset 13.8 dB 0 dB/div Ref 36.80 dBm	PNO: Fast Trig: Fr IFGain:Low #Atten:	ee Run 40 dB		Mkr1 5.072 GHz -23.05 dBm	Auto Tur
og 25.0 16.0 5.00					Center Fre 6.500000000 GH
3.2				DL1 -12:00 dBm	Start Fre 3.000000000 GH
3.2 3.2 3.2	۵۰۰۰۰، <sup>6</sup> ۱۹۹۹ میرونه را بر می به مراجع می باد. مراجع	2.0 1 10 10 10 10 10 10 10 10 10 10 10 10			Stop Fre 10.000000000 Gi
tart 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MH	EUNCTR	Sweep *	Stop 10.000 GHz 11.67 ms (1001 pts)	CF Ste 700.000000 Mi <u>Auto</u> Mi
2 3 3 4 5 5	5.072 GHz -23.05 (	dBm			Freq Offs 0 F
6 7 7 8 9 9 0 1					Scale Typ
a				*	

## GPRS\_850MHz\_MidCH190-836.6

<ul> <li>Keysight Sp</li> </ul>	ectrum Analyzer - 5					
R Center F	reg 6.5000	000000 GHz	SENSE:3NT	ALIGN AUTO Avg Type: Log-Pwr	06:52:05 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
0 dB/div	Ref Offset Ref 36.80		Trig: Free Run #Atten: 40 dB		Mkr1 3.819 GHz -23.35 dBm	Auto Tune
5.0 6.0						Center Fre 6.500000000 GH
20	<b>●</b> <sup>1</sup>			August Hing	DL1 -12:00 dBn	Start Fre 3.000000000 GH
2	3434					Stop Fre 10.000000000 GH
	0 GHz 1.0 MHz	#\	/BW 1.0 MHz	Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Ste 700.000000 MH Auto Ma
N 2	1 f	3.819 GHz	-23.35 dBm		FORCH WALKS	Freq Offse 0 H
7 8 9						Scale Typ
1						
3				10 STATU	5	

## GPRS\_850MHz\_HighCH251-848.8

👝 Keysight S	pectrum Analyze							
Center F		50 0 DC	Hz	Trig: Free B	Ave	Type: Log-Pwr	06:55:43 PM May 15, 202 TRACE 1 2 3 4 5 TYPE M WWWW	6 Frequency
10 dB/div	Ref Offse Ref 36.	it 13.8 dB	PNO: Fast G Gain:Low	#Atten: 40 c	B		Mkr1 9.769 GH: -22.65 dBn	Auto Tune
26.8 16.8								Center Freq 6.50000000 GHz
-3.20							DL1 -1200 -7	Start Freq 3.000000000 GHz
-33.2 -43.2 -63.2	age-fragerickage							Stop Freq 10.00000000 GHz
	/ 1.0 MHz		#VB\	V 1.0 MHz		Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts	CF Step 700.000000 MHz Auto Man
2 3 4 5	1 1	9.7	69 GHz	-22.65 dBn		FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
6 7 8 9 10 11								Scale Type
11	11				1	1		
DBN							5	

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## EDGE\_850MHz\_LowCH128-824.2

									Analyzer - Sw		eysight	— К
Frequency	E 1 2 3 4 5 6 MWWWWW T P N N N N N	TRAC	Log-Pwr	Avg Typ	Run	Trig: Free	Z KD: Fast	0000 GH	50 Q	Freq	nter	Cer
Auto Tune	54 GHz	1kr1 3.8	N		dB	#Atten: 4	iain:Low	8 dB	Offset 13		1B/div	
Center Free 6.50000000 GHz		20.1						ibm	1 30.80	/ Re	3	26.0 26.0 16.0
Start Free 3.000000000 GH	DL1-12.00 dBm	undbedengen	and densed the			unatual day	a manda atau	eland-hate	↓ <sup>1</sup>	-300-000		-3.20 -13.2 -23.2
Stop Free 10.000000000 GH										-1480-	2	-33.2 -43.2 -63.2
CF Step 700.000000 MH Auto Mar	.000 GHz 1001 pts)	1.67 ms (				1.0 MHz	#VBV		MHz	000 GI W 1.0	es B	#Re
Freq Offse	XN VALUE ×	FUNCTO	ICTION WIDTH	TION	Bm	-23.71 de	4 GHz	× 3.85		1 1		1 2 3 4 5
Scale Type												6 7 8 9 10
					-	10	- 1		1			*

## EDGE\_850MHz\_MidCH190-836.6

Keysight Spectrum Analyzer - Swept SA					
Center Freq 6.500000000	GHz	Avg	ALIGN AUTO	07:10:46 PM May 15, 2 TRACE 1 2 3 4 TYPE M WWW	5 6 Frequency
Ref Offset 13.8 dB 10 dB/div Ref 36.80 dBm	PN0: Fast Trig: Fre IFGain:Low #Atten: 4	i0 dB	n	Akr1 3.728 GH -22.32 dB	Auto Tune
25.8 16.0 5.9					Center Fre 6.500000000 GH
3.20 13.2	nicelyna, ganto, lagantficantila	a damaga da	A	DL1 -12.00 -	3.00000000 GH
33.2 43.2 53.2 53.2					Stop Fre 10.000000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	EUNCTION	Sweep 1	Stop 10.000 Gi 1.67 ms (1001 pi FUNCTION WALLS	tz (s) CF Ste 700.000000 MH Auto Ma
1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	3.728 GHz -22.32 d	Bm			Freq Offs
7 8 9 10 11					Scale Typ
e [	10			*	

## EDGE\_850MHz\_HighCH251-848.8

🔤 Keysight Spectrum Analyzer - Swep	# SA			
Center Freq 6.50000	DC SENSE:	Avg Type: Log-Pwr	07:14:44 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 10 dB/div Ref 36.80 d	PN0: Fast Trig: Free R IFGain:Low #Atten: 40 d	в	kr1 3.826 GHz -23.08 dBm	Auto Tune
25.8 16.8 5.80				Center Freq 6.50000000 GHz
-3.20 -13.2 -23.2	وراي محمد المحمد والمحمد والمحمد المحمد المحمد المحمد والمحمد والمحم والمحمد والمحم		DL1 -13.00 dBm	Start Free 3.000000000 GH;
-33.2 -43.2 -53.2				Stop Fre 10.000000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 11	Stop 10.000 GHz .67 ms (1001 pts)	CF Ste 700.000000 MH Auto Ma
1 N 1 f 2 3	3.826 GHz -23.08 dBm			Freq Offse 0 H
4 5 7 7 8 9 10 11				Scale Type
e e e e e e e e e e e e e e e e e e e	.10	<b>€</b> STATUS		

#### GPRS\_1900MHz\_LowCH512-1850.2

Keysight Spectrum Analyzer - Swept SA				
Center Freg 11.50000000	0 GHz	ALIGN AUTO AVG Type: Log-Pwr	7:27:18 PM May 15, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 14 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mkr	1 18.861 GHz -21.80 dBm	Auto Tun
27.0 17.0 7.00				Center Fre 11.50000000 GH
13.0	ענו מינין געל אול גלערילילי געלעי אין אייר איי איי איי איי איי איי איי איי אי		DL1-1 1 0:00m	Start Fre 3.000000000 GH
43.0 53.0				Stop Fre 20.000000000 GH
Res BW 1.0 MHz			top 20.000 GHz 3 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
1 N 1 1 11 2 3 4 5 6	8.861 GHz -21.80 dBm			Freq Offs 0 ⊦
6 7 8 9 10				Scale Typ
*	11	STATUS		

## GPRS\_1900MHz\_MidCH661-1880

IFGain Definition Ref 070met 14 dB 0 dB/div. Ref 37.00 dBm 0 dB/div. Ref 37.00 dB/div. Ref 37.00 dBm 0 dB/div. Ref 37.00 dB/div	Fast C Trig: Free Run #Atten: 40 dB		W TRACE [2.2.4 TRACE [2.2.4] Mkr1 19.915 Gi -21.57 dB	Hz Bm Center Fre 11.50000000 GF Start Fre 3.00000000 GF
Picin Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pican Pi	Fast C Trig: Free Run #Atten: 40 dB		Der P NNA Mkr1 19.915 GI -21.57 dB	Auto Tur Hz M Center Fre 11.50000000 Gł 3.00000000 Gł Stop Fre
a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	all and a second s			11.50000000 GF Start Fre 3.00000000 GF
	and a second	ay days by glowed Miry Cont Providence in		3.00000000 GF
art 3.000 GHz				Stop Fre
				20.00000000 GF
MODE TRC SCL X	#VBW 1.0 MHz	Sweep	Stop 20.000 G 28.33 ms (1001 p	Hz CF Ste 1.70000000 GH Auto Ma
N 1 f 19.915 G				Freq Offs 01
				Scale Typ

#### GPRS\_1900MHz\_HighCH810-1909.8

	pectrum Analyzer - Sv							
R Center F	Freq 11.500	000000 GHz	Trig: Free Run	Avg 1	ype: Log-Pwr	07:36:09 PM May 15, 2 TRACE 1 2 3 4 TYPE MWWW	5 6	Frequency
10 dB/div	Ref Offset 1 Ref 37.00				м	kr1 19.388 GI -21.17 dB		Auto Tune
.0g 27.0 17.0 7.00							11	Center Freq 500000000 GHz
3.00				ture of a fairful		DL1 -13.00	1 <sup>1</sup> 3	Start Free 000000000 GH
31.0 31.0							20	Stop Free
tart 3.0 Res BW	/ 1.0 MHz	#V	BW 1.0 MHz	FUNCTION	Sweep 2	Stop 20.000 G 8.33 ms (1001 p		CF Step 700000000 GH
1 N 2 3 4 5	1 1	19.388 GHz	-21.17 dBm					Freq Offse 0 Ha
6 7 8 9 10								Scale Type
11							- Log	Lin
93					<b>E</b> STATUS			

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## EDGE\_1900MHz\_LowCH512-1850.2

- ÷ -									Analyzer - Sw		rysight:	— Ка
Frequency	E 1 2 3 4 5 6 E NWWWWW T P N N N N N	TRAC	LIGN AUTO	Avg Typ	Run	1	Hz VO: Fast	000000 G	11.500	Freq	nter	Cer
Auto Tune		kr1 19.6	м		0 dB	#Atten: 4	Sain:Low	dB	Offset 14		IB/div	10 d
Center Free 11.50000000 GHz											_	27.0 17.0 7.00
Start Free 3.000000000 GH	DL1 -13.00 -1		1/4-31-1-mail@en	a tuber	ار بردمانی	يوريد و مواديد. موريد و مواديد		لعاليه جماعها ا		<b>\$</b>		-3.00 -13.0 -23.0
Stop Free 20.000000000 GH											_	-33.0 -43.0 -53.0
CF Step 1.70000000 GH Auto Mar		8.33 ms (				1.0 MHz	#VBV		MHz	00 GI V 1.0	s Bl	#Re
Freq Offse	XN WALUE	FUNCTO	CTION WIDTH	STION FI		-21.23 di	6 GHz	× 19.62		1 1		1 2 3 4 5
Scale Type												6 7 8 9 10
	, ,	3	<b>K</b> STATUS	- 1							_	*

## EDGE\_1900MHz\_MidCH661-1880

Keysight Spectrum Analyzer - Swept SA					
Center Freq 11.50000000	00 GHz	Avg Type	Log-Pwr TRA	OE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB 10 dB/div Ref 37,00 dBm	PNO: Fast PRO: Trig: Free IFGain:Low #Atten: 40		Mkr1 13.0	PNNNN	Auto Tune
27.0 17.0 7.00					Center Freq 11.50000000 GHz
-3.00 -13.0 -23.0		1	ليتراجع والمحالية و	DL1 -13.00 mBm	Start Freq 3.000000000 GHz
43.0					Stop Free 20.000000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	FUNCTION FUN	Sweep 28.33 ms		CF Step 1.700000000 GH: Auto Mar
1         N         1         f         1           3         -         -         -         -           4         -         -         -         -           6         -         -         -         -           7         -         -         -         -         -           8         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	13.659 GHz -21.72 dE	Im		<u> </u>	Freq Offsel 0 Ha
7 8 9 10 11					Scale Type
MBG	10		Costatus		

## EDGE\_1900MHz\_HighCH810-1909.8

👝 Keysight Sp	ectrum Analyzer - Si									
Center F	req 11.500	000000 GH	łz		SE:INT		Log-Pwr	TRA	M May 15, 2024 26 1 2 3 4 5 6 PE MWWWWW	Frequency
10 dB/div	Ref Offset 1 Ref 37.00	4 dB	D: Fast G iin:Low	#Atten: 40	dB		м	⊳ kr1 19.5	24 GHz 24 dBm	Auto Tune
27.0 17.0 7.00										Center Fred 11.50000000 GH;
-3.00		والديلات والالتجاري							0L1-13.00 d 1	Start Free 3.000000000 GH
-33.0										Stop Fre 20.000000000 GH
Start 3.00 #Res BW	1.0 MHz	×	#VBV	W 1.0 MHz	FUNC			8.33 ms (	.000 GHz 1001 pts)	CF Ste 1.700000000 GH Auto Ma
1 N 2 3 4 5	1 1	19.524	GHz	-21.24 dB	m				=	Freq Offse
2 3 4 5 6 7 8 9 10 11										Scale Type
MBG			- 1		+	-		5	- · ·	

#### WCDMA\_B2\_LowCH9262-1852.4

Keysight Spectrum Analyzer - Swept SA				
Center Freg 11.50000000	0 GHz	Aug Type: Log-Pwr	07:54:29 PM Hay 15, 2024 TRACE 1 2 3 4 5 6 TUPE M WWWWWW	Frequency
Ref Offset 14 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mkr	1 19.541 GHz -21.10 dBm	Auto Tun
09 27.0 17.0 7.00				Center Fre 11.500000000 GH
13.0			DL1 -13.00 d 1	Start Fre 3.000000000 GF
33.0 53.0				Stop Fre 20.000000000 GF
tart 3.000 GHz Res BW 1.0 MHz			Stop 20.000 GHz 33 ms (1001 pts)	CF Ste 1.70000000 GH Auto Ma
2 3 4 5	9,541 GHz -21.10 dBm			Freq Offs 01
6 7 8 9 10				Scale Typ
<b>11</b>	19	E STATUS	*	

## WCDMA\_B2\_MidCH9400-1880

Keysight Spectrum An								
enter Freg 1	50 D DC	) GHz	SENSE:	Avg	ALIGN AUTO Type: Log-Pwr	07:57:05 PM Ma TRACE 1	y 15, 2024 2 3 4 5 6	Frequency
dB/div Ref	offset 14 dB 37.00 dBm	PNO: Fast G IFGain:Low	Trig: Free Ru #Atten: 40 db	3	м	kr1 14.832 -21.46	GHZ	Auto Tur
9 7.0 7.0								Center Fre 11.500000000 GF
0	na rana ang ang ang ang ang ang ang ang ang			Raulin			-13.00 dBm	Start Fre 3.000000000 GH
								Stop Fre 20.000000000 GR
art 3.000 GH2 es BW 1.0 M	Hz		V 1.0 MHz	FUNCTION	Sweep 2	Stop 20.00 8.33 ms (10	01 pts)	CF Ste 1.700000000 Gi <u>Auto</u> M
N 1 f	14	1.832 GHz	-21.46 dBm					Freq Offs 01
								Scale Typ
4								Log L
					<b>K</b> ostatu	5		

## WCDMA B2 HighCH9538-1907.6

👝 Keysight Sp	sectrum Analyz										
R Center F	req 11.	50 Ω DC	00 GHz		SE:INT /	Avg Type:	LIGN AUTO	TRAC	MMay 15, 2024	<u> </u>	equency
10 dB/div		et 14 dB .00 dBm	PNO: Fast IFGain:Low		dB		м	kr1 18.9	29 GHz 24 dBm		Auto Tune
.0g 27.0 17.0 7.00											enter Freq
3.00 13.0 23.0				and horned here of			11. n - 11		011-111-100m	3.000	Start Free
31.0 31.0										20.000	Stop Free
tart 3.0 Res BW	1.0 MHz	:	#V	BW 1.0 MHz	SUNCTON.		weep 2	8.33 ms (	.000 GHz 1001 pts)	1.700 Auto	CF Step 0000000 GH Mar
1 N 2 3 4 5	1 1	Ŷ	18.929 GHz	-20.24 dB				Porecti			Freq Offse 0 Ha
6 7 8 9										Log	Scale Type
11					-						<u></u>
80											

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## HSDPA\_B2\_LowCH9262-1852.4

Keysight Spi	ctrum Analyzer									
Center F		0000000 GHz	ast	Trig: Free R			LIGN AUTO	TRA	H May 15, 2024	Frequency
10 dB/div	Ref Offset Ref 37.0	IFGain:	Low	#Atten: 40 c	B		м	kr1 20.0	00 GHz 27 dBm	Auto Tu
27.0 17.0 7.00										Center Fro 11.500000000 Gi
-3.00			at the start	wo.dor-editori	Jerror alas, Jairi	Territ March 10, 2	n-inge-sedensi		DL1-13.00 d 1	Start Fre 3.000000000 Gi
-33.0 -43.0 -53.0										Stop Fre 20.000000000 Gi
Start 3.00 #Res BW	1.0 MHz		#VBW	1.0 MHz				8.33 ms (	.000 GHz 1001 pts)	CF Ste 1.700000000 GI Auto M
1 N 1 2 3 4 5 6		20.000 GF	iz	-21.27 dBm		N FUN	ICTION WIDTH	FUNCT		Freq Offs 0
6 7 8 9 10 11									_	Scale Typ
< L								3		

## HSDPA\_B2\_MidCH9400-1880

Center Freq 11.50000000 GHz	Keysight Spectrum Analyzer - Swept SA					
Inclusion         Inclusion <t< td=""><td></td><td>0 GHz</td><td>Avg Typ</td><td></td><td>RACE 1 2 3 4 5 6</td><td>Frequency</td></t<>		0 GHz	Avg Typ		RACE 1 2 3 4 5 6	Frequency
270         Center         Center         15000000           300         Start         Start         Start         Start           310         Start         Start         Start         Start           320         Start         Start         Start         Start           330         Start         Start         Start         Start           340         Start         Stop         Stop         Stop           351         Start         Stop         Stop         Stop           361         Stop         Stop         Stop         Stop           361         Stop         Stop         Stop         Stop         Stop           370         Stop         Stop         Stop         Stop         Stop         Stop           380         Stop	0 dB/div Ref 37.00 dBm		40 dB		9.592 GHz	Auto Tun
30         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A	27.0					Center Fre 11.500000000 GP
Stop         Stop <th< td=""><td>13.0</td><td></td><td>مولا دواران مرکز اور میکور اور میکور اور میکور اور میکور اور میکور میکور میکور اور میکور اور میکور اور میکور او</td><td>Margaret Margaret March</td><td>•</td><td>Start Fre 3.000000000 GH</td></th<>	13.0		مولا دواران مرکز اور میکور اور میکور اور میکور اور میکور اور میکور میکور میکور اور میکور اور میکور اور میکور او	Margaret Margaret March	•	Start Fre 3.000000000 GH
Res BW 1.0 MHz         #VBW 1.0 MHz         Sweep 28.33 ms (1001 pts)         1.7000000           2000 H05 Ext	3.0					Stop Fr 20.000000000 G
2	Res BW 1.0 MHz	Y	FUNCTION FU	Sweep 28.33 m	s (1001 pts)	CF Ste 1.700000000 G Auto M
7	2 3 3 4 6 5	).592 GHz -21.23 d	IBm			Freq Offs 0
	7 8 9 0					Scale Ty
90 Castratus					-	

## HSDPA\_B2\_HighCH9538-1907.6

Keysight Spectrum	m Analyzer - Swept SA						
	11.50000000	0 GHz	Trig: Free Ru	Ava	ALIGN AUTO	08:32:56 PM May 15, 20 TRACE 1 2 3 4 TYPE MWWW	5 6 Frequency
10 dB/div R	ef Offset 14 dB	IFGain:Low	#Atten: 40 dl	8	м	kr1 18.980 GH -20.50 dB	z Auto Tun
27.0 17.0 7.00							Center Fre 11.500000000 GH
13.0 23.0 23.0	بالكالمور المعالية	يو ود دور المناطقة حيد ورو	- numbers	-level and a france		DL1-5-1 -	Bri Start Fre 3.000000000 GH
13.0 13.0							Stop Fro 20.000000000 Gi
tart 3.000 G Res BW 1.0	MHz		W 1.0 MHz		Sweep 2	Stop 20.000 GH 8.33 ms (1001 pt	
1 N 1 1 2 3 4 6	1 1	8.980 GHz	-20.50 dBm				Freq Offs
0 7 8 9 10							Scale Typ
4						3	

#### HSUPA\_B2\_LowCH9262-1852.4

Keysight Spectrum Analyzer - Swept SA				
Center Freg 11.50000000	0 GHz	Aug Type: Log-Pwr	08:49:17 PM May 15, 2024 TR4CE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 14 dB	PN0: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mki	r1 19.235 GHz -21.40 dBm	Auto Tun
27.0 17.0				Center Fre 11.500000000 GH
3.00 3.00 23.0			041-13/0 1 <sup>bri</sup>	Start Fre 3.000000000 GH
43.0 53.0		eters jag järten en e		Stop Fre 20.000000000 GH
Start 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MHz		Stop 20.000 GHz 33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
2 3 4 5	9.235 GHz -21.40 dBm			Freq Offse
6 7 8 9				Scale Typ
10				Log Li

## HSUPA\_B2\_MidCH9400-1880

						selyzer - Swept S		yzight S
TRACE 1 2 3 4 5 6 Frequency	TRACE 1	ype: Log-Pwr	Ave	SENSE:1	00 GHz	1.500000	rea 1	terl
19.779 GHz -20.41 dBm	<sub>061</sub> p	м		#Atten: 40 dB	PNO: Fast C IFGain:Low	offset 14 dB	Ref	Bidiv
Center Fre								
Start Fre 3.00000000 G					درور و مردور و مردور و مردور و			
Stop Fro 20.00000000 G								
p 20.000 GHz ms (1001 pts) UNHORINGUE Auto M	8.33 ms (100	Sweep 2	CLINETON	1.0 MHz	#VB		00 GH	s BV
Freq Offs				-20.41 dBm	19.779 GHz		1 1	N
Scale Typ								
	5							

## HSUPA B2 HighCH9538-1907.6

📥 Keysight Sp	ectrum A	nalyzer - Swept	SA					
Center F	req 1		0000 GHz		Avg Rup	Type: Log-Pwr	08:51:29 PM May 15, 202 TRACE 1 2 3 4 5 TUPE M WWWW	Frequency
10 dB/div		Offset 14 dl			dB	м	kr1 18.878 GH: -21.39 dBn	Z Auto Tune
27.0 17.0 7.00								Center Freq 11.500000000 GHz
3.00	-	1 10 10		مر <b>م</b> ر محمد معنو	utilize and a life of		0.1 -1 1 2:00	Start Freq 3.00000000 GHz
43.0	-							Stop Free 20.000000000 GHz
Res BW	1.0 N	1Hz	#V	/BW 1.0 MHz	EINCTION	Sweep 2	Stop 20.000 GH 8.33 ms (1001 pts	CF Step 1.70000000 GHz Auto Man
	1 1		18.878 GHz	-21.39 dB				Freq Offset
6 7 8 9 10 11								Scale Type
*					'			
193							5	

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# SG

## WCDMA\_B4\_LowCH1312-1712.4

Keysight Spi	ectrum Analyzer - S							
Center F	req 11.500	0000000 GHz PN0: Fast	Trig: Free Ru	Avg Type	LIGN AUTO	TRAC	Hay 15, 2024	Frequency
10 dB/div	Ref Offset	IFGain:Lov			N	1kr3 5.1	37 GHz 77 dBm	Auto Tune
27.0 17.0 7.00								Center Free 11.500000000 GH
-3.00 -13.0 -23.0	3 3	لردوس مودمور مربع		- selecter of the selection of the second	olivian un livela		0.1.1.300 mm	Start Fre 3.000000000 GH
-33.0 -43.0 -53.0								Stop Fre 20.000000000 GH
Start 3.00 #Res BW	1.0 MHz	#V	BW 1.0 MHz			8.33 ms (		CF Ste 1.700000000 GH Auto Ma
1 N 1 2 N 1 3 N 1 4 5 6	1 1 1 1	* 18.827 GHz 3.425 GHz 6.137 GHz	-21.80 dBm -29.45 dBm -24.77 dBm	FUNCTION FUN	CHON WIDTH	FUNCTO	N WALUE	Freq Offse
7 8 9 10 11							=.	Scale Typ
4						1		

## WCDMA\_B4\_MidCH1413-1732.6

Keysight Spectrum Analyzer - Swept SA					
Center Freq 11.50000000	0 GHz	SENSE:INT Avg	ALIGN AUTO	08:09:31 PM May 15, 2024 TRACE 1 2 3 4 5 6 TYPE MUMUMUM	Frequency
Ref Offset 14 dB 0 dB/div Ref 37.00 dBm		n: 40 dB	N	1kr3 5.198 GHz -27.48 dBm	Auto Tur
09					Center Fre 11.500000000 GH
00 3.0 3.0 2 3.0 3 3.0 3.0 3 3.0 3.0 3 3.0 3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	1.14.~.14	المحمور ويروز ومرد المجلوب	المراجع المراجع المراجع المراجع	DL1-13.00 albri	Start Fr 3.000000000 G
8.0					Stop Fr 20.000000000 G
art 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 M		Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.700000000 G Auto
1 N 1 F 1 2 N 1 F N 1 F 4 5	3.465 GHz -29.6	7 dBm 1 dBm 8 dBm			Freq Off
6 7 8 9 0					Scale Ty
1					Log j
a					

## WCDMA\_B4\_HighCH1513-1752.6

									n Amelyzer - Sv		- Ke
Frequency	H May 15, 2024	TRA	Log-Pwr	Avg Typ	ISE:INT		GHz	000000 0	11.500		Cen
Auto Tune	58 GHz	0 //kr3 5.2	N		Run 0 dB	#Atten: 4	NO: Fast Gain:Low	iF 4 dB	ef Offset 1-		
Center Fre 11.500000000 GH									ei 37.00		27.0 17.0 7.00
Start Fre 3.000000000 GH	0L1-13.00,00m	all set date					d	لىمەردىلەر مەر	<b>→</b> <sup>3</sup>	<sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup>	.00 3.0 3.0
Stop Fre 20.00000000 GH				and the second				an jurniput	and all have a	not a constant	3.0 3.0 3.0
CF Ste 1.700000000 GH Auto Ma	.000 GHz 1001 pts)	8.33 ms (	Sweep 2		FU	1.0 MHz	#VB	×	MHz	t 3.000 G s BW 1.0	₹e
Freq Offse	=				3m	-21.15 d -28.16 d -27.14 d	73 GHz 05 GHz 58 GHz	3.60		N 1 1 N 1 1 N 1 1	1 2 3 4 5
Scale Typ	≣!										4 5 6 7 8 9 0
		3					,				50

## HSDPA\_B4\_LowCH1312-1712.4

Keysight Spectrum Analyzer - Swept					
enter Freg 11.50000	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:37:36 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 d 0 dB/div Ref 37.00 dB	PNO: Fast IFGain:Low	#Atten: 40 dB	N	1kr3 5.137 GHz -27.82 dBm	Auto Tune
<b>0</b> g 27.0 17.0 7.00					Center Fre 11.500000000 GH
13.0				DL1 -1340 etbm	Start Fre 3.000000000 GH
33.0 43.0 53.0			Area and a second		Stop Fre 20.00000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VB	W 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.70000000 GH Auto Ma
NE MODE IRC SOU 1 N 1 f 2 N 1 f 3 N 1 f 4 5	x 18.929 GHz 3.425 GHz 5.137 GHz	-21.87 dBm -29.39 dBm -27.82 dBm	I FUNCTION WRITH	FUNCTION VALUE	Freq Offse
6 7 8 9					Scale Typ
10					Log Li
				*	<u> </u>

## HSDPA\_B4\_MidCH1413-1732.6

Keysight Spectrum Analyzer - Swept SA				
Center Freq 11.50000000	) GHz	ALIGN AUTO Avg Type: Log-Pwr	08:38:58 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB 0 dB/div Ref 37.00 dBm	PN0: Fast Trig: Free IFGain:Low #Atten: 4	0 dB	Mkr3 5.198 GHz -27.03 dBm	Auto Tune
27.0 17.0			-27.05 (15)	Center Free 11.50000000 GH
3.00			0L1 -13.00atbri	Start Free
3.0 3.0 3.0	an a	<i>مەرەت ئۇر تەرىپ توپە ئاللەنچا-</i> 10,14 رايدۇ <i>يە</i>	and some the state of the second	Stop Free
and and a start 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	Sween	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Step 1.700000000 GH
KR MODE TRC SCL X	.167 GHz -22.29 dE	FUNCTION FUNCTION WIDTH		<u>Auto</u> Ma
2 N 1 f 3 N 1 f 6 4 6	465 GHz -31.19 dt .198 GHz -27.03 dt	am		Freq Offse 0 H
6 7 8 9 0				Scale Typ
			·	Log <u>Li</u>
80		() STAT	JS	L

## HSDPA B4 HighCH1513-1752.6

🔤 Keysight Sp	ectrum A	inalyzer - Swi	ept SA									0 0
Center F	req 1	50 Q	DC 00000 G	iHz		SE:INT	Avg Typ	ALIGN AUTO	TRA	M May 15, 2024		equency
10 dB/div		Offset 14	dB	NO: Fast 😁 Gain:Low	#Atten: 40			1	Akr3 5.2	258 GHz 37 dBm		Auto Tune
27.0 17.0 7.00												Center Freq 0000000 GHz
-3.00		<b>≜</b> <sup>3</sup>		aceter		din batur	Lan Darithering	-	4100-140		3.00	Start Freq
43.0 63.0											20.00	Stop Freq
start 3.00 #Res BW	1.0 N			#VB\	V 1.0 MHz				8.33 ms (	.000 GHz 1001 pts)	1.70 Auto	CF Step 0000000 GHz Man
1 N 2 N 3 N 4 5	RC SCU 1 1 1 1 1 1		3.50	5 GHz 5 GHz 8 GHz	-22.60 dB -29.83 dB -27.37 dB	lm Im	NCTION FU	INCTION WIDTH	FUNCT	ON VALUE		Freq Offset 0 Hz
0 7 8 9 10											Log	Scale Type Lin
							-					
UBG DRM									3			

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## HSUPA\_B4\_LowCH1312-1712.4

Keysight Spectrum Analyzer - Swept					
Center Freq 11.50000	00000 GHz	Trig: Free Run	Aug Type: Log-Pwr	08:44:53 PM May 15, 2024 TRACE 1 2 3 4 5 6 Type Museum	Frequency
Ref Offset 14 d 10 dB/div Ref 37.00 dB		#Atten: 40 dB	N	Akr3 5.137 GHz -25.44 dBm	Auto Tune
27.0 17.0 7.00					Center Free 11.500000000 GH
-3.00 -13.0 -23.0	. mate second an other	and the factor of the second	un un and a state of the line and a state of the	CL1-13p0 attra	Start Free 3.000000000 GH
43.0					Stop Fre 20.000000000 GH
Start 3.000 GHz Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.70000000 GH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 6	18.878 GHz 3.425 GHz 5.137 GHz	-21.78 dBm -28.19 dBm -25.44 dBm			Freq Offse 0 H
7 8 9 10					Scale Typ
* ///			<b>K</b> otatu:	*	

## HSUPA\_B4\_MidCH1413-1732.6

Keysight Spectrum Analyzer - Swept SA					
Center Freq 11.500000000	GHz	SENSE:INT AVE	ALIGN AUTO	08:46:06 PM May 15, 2024 TRACE 1 2 3 4 5 6 TUPE M WWWWWW	Frequency
Ref Offset 14 dB	PNO: Fast Trig: F IFGain:Low #Atten	ree Run : 40 dB	Mkr3 5.198 GHz -25.41 dBm	Auto Tur	
og 27.0 17.0 7.00					Center Fr 11.500000000 G
30 3.0 3.0 3.0 3.0	19.49 milestrates	1	-l	DL1-13.40 000	Start Fr 3.000000000 G
3.0					Stop Fr 20.000000000 G
art 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MH			Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.700000000 G Auto
2 N 1 f 3	997 GHz -21.70 .465 GHz -30.46 .198 GHz -25.41	dBm dBm	FUNCTION WRITH	FUNCTION VALUE	Freq Off: 0
0 7 8 9 0					Scale Ty
		,		*	

## HSUPA\_B4\_HighCH1513-1752.6

								Analyzer - Si		Neysigm
Frequency	47:20 PH May 15, 2024 TRACE 1 2 3 4 5 6		Avg Type: L	SE:INT		Hz	000000 0		Freq	enter
Auto Tune	5.258 GHz			Run ) dB	#Atten: 4	NO: Fast Gain:Low	4 dB	f Offset 1	Re	dB/di
Center Fre 11.500000000 GH										7.0
Start Fre 3.000000000 GH	0L1-13.00 attp	ul more constituent		l des la c				<b>→</b> <sup>3</sup>	2	00 3.0 3.0
Stop Fre 20.000000000 GH				40-17 H-14					,	
CF Ste 1.700000000 GH Auto Ma	op 20.000 GHz ms (1001 pts)	veep 28.33 i			1.0 MHz		×	MHz	.000 G W 1.0	tes B
Freq Offs 0 H				m	-22.31 dE -29.41 dE -25.85 dE	5 GHz 15 GHz 18 GHz	3.5			1 N 2 N 4
Scale Typ										4 5 7 3 9 0
	,	<b>K</b> STATUS			10					

## WCDMA\_B5\_LowCH4132-826.4

								pt SA	inalyzer - Swi		iight Spect	Key
Frequency	CE 1 2 3 4 5 6	TRA	ALIGN AUTO	Avg	NSE:INT		z	0000 GH	50 D	eq 6	er Fre	ent
Auto Tun	31 GHz 96 dBm	ہ 1kr1 4.6	1			#Atten: 4	NO: Fast G	8 dB	Offset 13 36,80 (		idiv	0 dF
Center Fre 6.500000000 GH												.og 26.8 16.8 6.80
Start Fre 3.000000000 GH	DL1 -12:00 dBm							<b>∳</b> <sup>1</sup>				3.20 13.2 23.2
Stop Fre 10.00000000 GH			1.0,000 million (1.0,000	ner en se		1400-ayaadahaa		- Action of the second s	********			33.2 43.2 53.2
CF Ste 700.000000 MH Auto Ma	0.000 GHz (1001 pts)	1.67 ms (	Sweep 1	ACTION		1.0 MHz	#VBV	×	ЛНz	1.0 N	3.000 BW 1	Res
Freq Offs 0 F	=				Bm	-22.96 d	1 GHz	4.63		1	N 1	2 3 4 5
Scale Typ												6 7 8 9
-	· ·				-		_			-	-	11
		5	to statu:									93

## WCDMA\_B5\_MidCH4183-836.6

								Analyzer - Sw		rysight	K
Frequency	6	08:16:56 PM May 15, 202 TRACE 1 2 3 4 5 TYPE MWWWW	ype: Log-Pwr	Avg	SENSE:	z	00000 GH	50 G	Freq	nter	er
Auto Tur	z	kr1 3.833 GH -22.17 dBr	N		Trig: Free Ru #Atten: 40 dE	¥O:Fast ⊂ ⊊ ain:Low	IFC	Offset 13	Ref	B/div	
Center Fre 6.50000000 GH											9 10 10
Start Fre 3.000000000 GH	1	DL1 -13:00 oB						• <sup>1</sup>			2
Stop Fre 10.00000000 GF	Ĩ								lasso		2 2 2
CF Ste 700.000000 Mi <u>Auto</u> Mi	s)	Stop 10.000 GH .67 ms (1001 pt	Sweep 1	FUNCTION	I.0 MHz	#VBW	×	MHz	000 GH W 1.0 I	s B	e
Freq Offs 0 F					-22.17 dBm	3 GHz	3.83		1 1		
Scale Typ										_	
	-					-					4

## WCDMA\_B5\_HighCH4233-846.6

🔤 Keysigh	t Spect		nalyzer - Sw													×
Center	r Fre	P 6	50 Q		GHz		1	SE:INT	Avg	Type: Log		TRA	M May 15, 20 DE 1 2 3 4 PE M WWW	5.6	Frequency	
10 dB/d			Offset 13 36.80 (		PNO: Far IFGain:Lo		#Atten: 40	dB			N	1kr1 3.7	ETPNNN		Auto Tu	ine
26.8 16.8		+								-					Center Fr 6.500000000 G	
-3.20 -13.2 -23.2		•	1				and the subscription						DL1 -13.00 d	٦	Start Fr 3.000000000 G	
-33.2	aleyînin.		- Clare			9						4,44-1-1-14		Ĩ	Stop Fr 10.000000000 G	
Start 3 #Res E	3W 1	.0 N		×	#	VBW	1.0 MHz		FUNCTION		<u> </u>	1.67 ms	0.000 GH 1001 pt	iz s)	CF St 700.000000 M Auto M	
1 N 2 3 4 5 6	1	1		;	3.742 GH		-22.14 dE	Im							Freq Offs 0	set Hz
0 7 8 9 10															Scale Ty	/pe Lin
- <u> </u>						· ·										
MBG										u 🛵	STATUS					_

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## Report No.: TERF2404001131ER Page: 54 of 99



## HSDPA\_B5\_LowCH4132-826.4

🔤 Keysight Sp		yzer - Swept SA								
Center F	req 6.5	500000000 C	GHZ PND: Fast		E:INT		Log-Pwr	TRAC	H May 15, 2024	Frequency
10 dB/div		fset 13.8 dB 6.80 dBm	IFGain:Low	#Atten: 40			'	/kr1 9.0	48 GHz 31 dBm	Auto Tu
26.8 16.8										Center Fr 6.500000000 G
-3.20 -13.2 -23.2	extently		مالولى و محادث			by a brack		•1	01.1 -12.00 dBm	Start Fr 3.000000000 G
-33.2 -43.2 -53.2										Stop Fr 10.000000000 G
Start 3.00 #Res BW	1.0 MH	Iz	#VBI	W 1.0 MHz	6100000		Sweep 1	1.67 ms (	.000 GHz 1001 pts)	CF St 700.000000 M Auto M
1 N 2 3 4 5 6		9.	048 GHz	-23.31 dB				Powern		Freq Offs 0
0 7 8 9 10 11									_	Scale Ty
<								8		

## HSDPA\_B5\_MidCH4183-836.6

Keysight Spectrum Analyzer -	Swept SA				
enter Freq 6.500	0000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	08:24:14 PM May 15, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
Ref Offset 0 dB/div Ref 36.8		#Atten: 40 dB	n	Akr1 5.072 GHz -23.26 dBm	Auto Tur
25.8 16.8					Center Fre 6.50000000 GF
3.2 3.2	1		المراجع	01.1 -13.00 aBm	Start Fr 3.000000000 G
3.2					Stop Fr 10.000000000 G
art 3.000 GHz Res BW 1.0 MHz	×		Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF St 700.000000 M Auto M
N 1 1 2 3 4 5	5.072 GHz	-23.26 dBm			Freq Offs 0
6 7 8 9 0					Scale Ty
<u> </u>			'		
a				3	

## HSDPA\_B5\_HighCH4233-846.6

					ectrum whatyzer - swep	<ul> <li>Neysight spe</li> </ul>
Frequency	08:26:33 PM May 15, 2024 TRACE 1 2 3 4 5 6	ALIGN AUTO Avg Type: Log-Pwr	SENSE:INT		reg 6.50000	R Center Fr
2 GHz Auto Tune	Mkr1 5.072 GHz -23.06 dBm	N	Trig: Free Run #Atten: 40 dB		Ref Offset 13. Ref 36.80 d	10 dB/div
Center Free 6.500000000 GH					Rei 30.80 u	26.8 16.8
3.00000000 GH	DL1 -13.00 dBm			1	of NUmar	-3.20
Stop Fre 10.00000000 GH					A	43.2
700.000000 MH	Stop 10.000 GHz 1.67 ms (1001 pts) FUNCTONWAUE	Sweep 1		×	1.0 MHz	Start 3.00 Res BW
Freq Offse			-23.06 dBm	5.072 GHz		1 N 1 2 3 4 5
Log L						4 6 7 8 9 10 11
	5					190

## HSUPA\_B5\_LowCH4132-826.4

Keysight Spectrum Analyzer - Swept SA				
Center Freq 6.500000000	GHz SENSE:INT	ALIGN AUTO 08: Avg Type: Log-Pwr	53:25 PM May 15, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	PN0: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mkr1	3.805 GHz -21.59 dBm	Auto Tun
og 26.8 16.0 5.90				Center Fre 6.50000000 GH
3.20 13.2			DL1 -12.00 dBn	Start Fre 3.000000000 GH
33.2 53.2		39-107-0-107-17-19-18-19-19-1-19-19-19-19-19-19-19-19-19-19-1	ninetter and down to	Stop Fre 10.00000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 11.67	p 10.000 GHz ms (1001 pts)	CF Ste 700.000000 Mi Auto Mi
N 1 1 2 3 4 5	3.805 GHz -21.59 dBm			Freq Offs 01
6 7 8 9 10				Scale Typ
<b>11</b>		I status	· · ·	

## HSUPA\_B5\_MidCH4183-836.6

Keysight Spectrum Analyzer - S					
enter Freq 6.5000	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:54:24 PM May 15, 2024 TRACE 1 2 3 4 5 6 TUPE MWWWWW	Frequency
Ref Offset 1 dB/div Ref 36.80				Mkr1 3.686 GHz -23.43 dBm	Auto Tun
					Center Fre 6.500000000 GH
20 12 1			مر المراجع الم	04.1 -13.00 dBm	Start Fre 3.000000000 GH
2 2 2 2				and the second sec	Stop Fre 10.00000000 GF
art 3.000 GHz es BW 1.0 MHz	#V	/BW 1.0 MHz	Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Ste 700.000000 MH Auto Ma
N 1 f	3,686 GHz	-23.43 dBm			Freq Offse 0 H
					Scale Typ

## HSUPA\_B5\_HighCH4233-846.6

🔤 Keysight Sp												
Center F	Freq (	50 G	00000 G	Hz		SE:INT	Avg Typ	ALIGN AUTO	TRA	M May 15, 2024	E Fr	equency
10 dB/div		Offset 13 56.80	1F 3.8 dB	NO:Fast ⊂ Gain:Low	#Atten: 40			N	₀ /kr1 3.8	05 GHz 33 dBm	í	Auto Tune
26.8 16.8												enter Freq
3.20		L <sup>1</sup>								01.1 -13.00 dBm	3.000	Start Freq
43.2 53.2											10.000	Stop Freq 0000000 GHz
tart 3.0 Res BW	1.0	MHz	×	#VB	W 1.0 MHz	FUN	TION FU	Sweep 1	1.67 ms (	.000 GHz 1001 pts)	700 Auto	CF Step 000000 MH: Mar
1 N 2 3 4 5 6	1 1		3.8	05 GHz	-23.33 dB	m				=	·	Freq Offse 0 Ha
6 7 8 9 10 11										=	Log	Scale Type Lin
< [					**							
86								<b>I</b> o STATUS				

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# SG

# 11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

#### 11.1 Standard Applicable

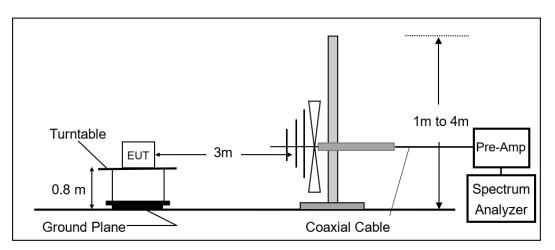
## According to FCC §2.1053,

## FCC §22.917(a), §24.238(a), §27.53(h) and RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §5.6

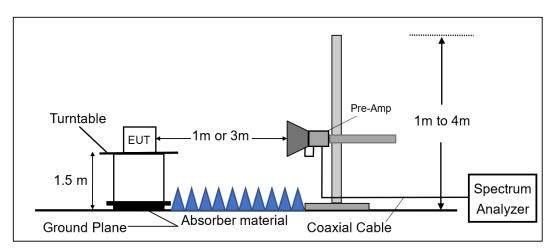
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

#### **EUT Setup** 11.2

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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#### **Measurement Procedure:** 11.3

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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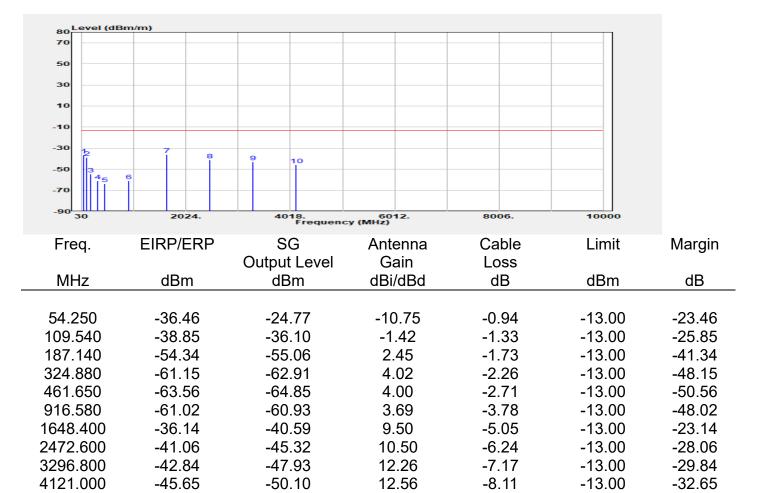
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#### **Measurement Result:** 11.4

Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 850	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:824.2 MHz	Engineer	:Andy Lee



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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 850	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:824.2 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)					
70						
50						
30						
10						
-10						
-30 -2	7 8	9 10				
-50 3	6					
-70						
-90 30	2024.	4018.	6012.	8006.	10000	
		4018. Frequenc	y (MHz)			
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-43.89	-32.20	-10.75	-0.94	-13.00	-30.89
33.790	-40.74	-37.70	-1.57	-1.47	-13.00	-27.74
83.260	-51.69	-51.73	1.77	-1.73	-13.00	-38.69
849.130	-60.70	-62.80	4.44	-2.34	-13.00	-47.70
41.280	-65.81	-67.11	3.95	-2.65	-13.00	-52.81
65.080	-62.79	-62.39	3.47	-3.87	-13.00	-49.79
648.400	-41.52	-45.97	9.50	-5.05	-13.00	-28.52
472.600	-37.89	-42.15	10.50	-6.24	-13.00	-24.89
~~~ ~~~	10.00	47.04	10.06	-7.17	-13.00	-29.82
296.800	-42.82	-47.91	12.26	-/.1/	-13.00	-29.02

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:SAC D

:Vertical :Andy Lee

:2024-05-27 :22.1℃/65%



Report Number	:TERF2404001131ER	Test Site	
Operation Mode	:GPRS 850	Test Date	
Test Mode	:Tx	Temp./Humi.	
EUT Pol	:H Plane	Antenna Pol.	
Test Frequency	:836.6 MHz	Engineer	

80 Level (dBi	m/m)					
70						
50						
30						
10						
-10						
-30						
-50 3	7 8	9 10				
45	6					
-70						
-90 30	2024.	4018. Frequency	6012. y (MHz)	8006.	10000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
	,	Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	dBill	dBill	dBi/dBd	40	dDiff	4B
54.250	-36.33	-24.64	-10.75	-0.94	-13.00	-23.33
107.600	-38.71	-36.16	-1.24	-1.31	-13.00	-25.71
187.140	-52.78	-53.50	2.45	-1.73	-13.00	-39.78
322.940	-62.02	-63.80	4.04	-2.26	-13.00	-49.02
461.650	-64.44	-65.73	4.00	-2.71	-13.00	-51.44
	-04.44					
914.640	-61.52	-61.44	3.70	-3.78	-13.00	-48.52

10.60

12.58

12.63

-6.28

-7.24

-8.21

-13.00

-13.00

-13.00

-25.22

-28.33

-31.26

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-42.54

-46.67

-48.68

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-38.22

-41.33

-44.26

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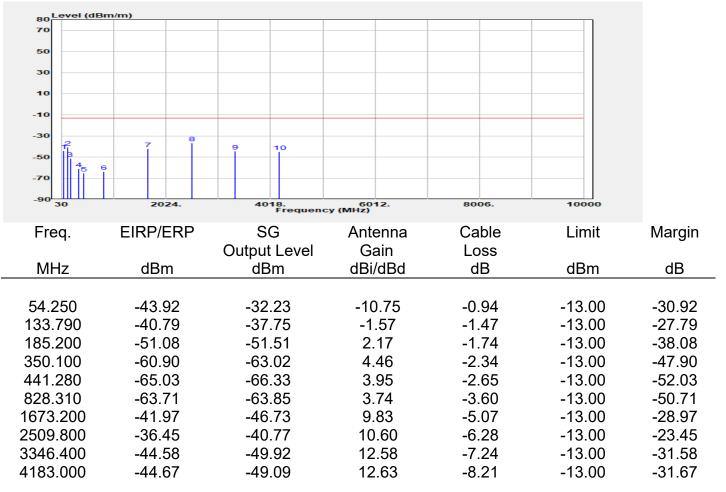
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2509.800

3346.400 4183.000



Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 850	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:836.6 MHz	Engineer	:Andy Lee



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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 850	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> ℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:848.8 MHz	Engineer	:Andy Lee

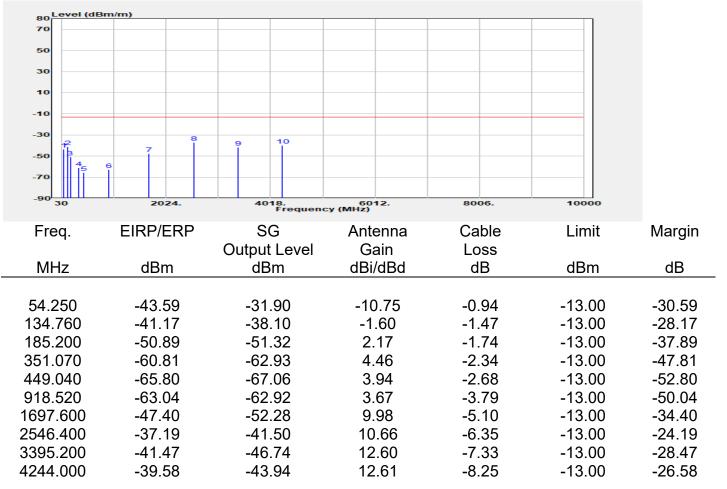
80 Level (dE	m/m)					
70						
50						
30						
10						
-10						
-30	5 6	7 8				
-50 3						
-70						
-90 30						
30	2024.	4018. Frequenc	6012. y (MHz)	8006.	10000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margir
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.19	-24.50	-10.75	-0.94	-13.00	-23.19
08.570	-38.40	-35.65	-1.43	-1.32	-13.00	-25.40
08.570 85.200	-38.40 -52.66	-35.65 -53.09	-1.43 2.17	-1.32 -1.74	-13.00 -13.00	
			-			-39.66
85.200	-52.66	-53.09	2.17	-1.74	-13.00	-39.66 -47.73
85.200 40.400	-52.66 -60.73	-53.09 -62.65	2.17 4.22	-1.74 -2.30	-13.00 -13.00	-39.66 -47.73 -30.58
85.200 40.400 697.600	-52.66 -60.73 -43.58	-53.09 -62.65 -48.46	2.17 4.22 9.98	-1.74 -2.30 -5.10	-13.00 -13.00 -13.00	-25.40 -39.66 -47.73 -30.58 -28.12 -29.89

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 850	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:848.8 MHz	Engineer	:Andy Lee



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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 1900	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1850.2 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)					
70						
50						
30						
10						
-10						
-30	7 1	9   10				
-50 3	Í					
-70						
-90						
-90 30	4024.	8018. Frequency	12012. y (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		U
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.56	-24.87	-10.75	-0.94	-13.00	-23.56
109.540	-38.38	-35.63	-1.42	-1.33	-13.00	-25.38
186.170	-52.61	-53.26	2.38	-1.73	-13.00	-39.61
336.520	-61.45	-63.27	4.12	-2.30	-13.00	-48.45
430.610	-66.50	-67.83	3.95	-2.62	-13.00	-53.50
916.580	-60.62	-60.53	3.69	-3.78	-13.00	-47.62
700.400	-43.04	-48.02	12.60	-7.62	-13.00	-30.04
550.600	-34.96	-38.69	13.20	-9.47	-13.00	-21.96
400.800	-32.95	-33.08	11.10	-10.97	-13.00	-19.95
251.000	-40.41	-39.22	11.20	-12.39	-13.00	-19.93
201.000	-40.41	-39.22	11.20	-12.39	-13.00	-21.41

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f (886-2) 2298-0488



Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 1900	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1°C/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1850.2 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)				·1	
70						
50						
30						
10						
-10						
-30	8	9 10				
f	7					
- <b>50</b> 4 6						
-70						
-90 30	4024.	8018. Frequenc	12012.	16006.	20000	
_				0.11	,	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
		24.07	40.75	0.04	42.00	
54.250	-43.56	-31.87	-10.75	-0.94	-13.00	-30.56
34.760	-40.93	-37.86	-1.60	-1.47	-13.00	-27.93
85.200	-50.87	-51.30	2.17	-1.74	-13.00	-37.87
50.100	-62.04	-64.16	4.46	-2.34	-13.00	-49.04
42.250	-66.05	-67.35	3.95	-2.65	-13.00	-53.05
20.460	-63.43	-63.29	3.65	-3.79	-13.00	-50.43
700.400	-42.23	-47.21	12.60	-7.62	-13.00	-29.23
550.600	-32.07	-35.80	13.20	-9.47	-13.00	-19.07
400.800	-31.81	-31.94	11.10	-10.97	-13.00	-18.81

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 1900	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1880 MHz	Engineer	:Andy Lee

80 Level (dBr	n/m)					
70						
50						
30						
10						
-10						
		9				
-30	7	10				
-50 3 4_ 6						
-70						
-90 30	4024.	8018.	12012.	16006.	20000	
		8018. Frequency	y (MHz)		20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.12	-24.43	-10.75	-0.94	-13.00	-23.12
109.540	-38.52	-35.77	-1.42	-1.33	-13.00	-25.52
85.200	-52.53	-52.96	2.17	-1.74	-13.00	-39.53
342.340	-61.08	-63.03	4.27	-2.32	-13.00	-48.08
539.250	-64.72	-66.03	4.23	-2.92	-13.00	-51.72
921.430	-61.01	-60.86	3.64	-3.79	-13.00	-48.01
760.000	-40.56	-45.30	12.46	-7.72	-13.00	-27.56
640.000	-32.68	-36.63	13.48	-9.53	-13.00	-19.68
520.000	-28.54	-28.57	11.14	-11.11	-13.00	-15.54
400.000	-38.87		11.60			

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 1900	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1°C/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1880 MHz	Engineer	:Andy Lee
80 Level (dBm/r	n)	1 1	

-30 2 -50 -70 -90 30	4024.	8 9 10 10 8018. Frequence	12012. 7 (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-41.59	-29.90	-10.75	-0.94	-13.00	-28.59
135.730	-41.09	-37.98	-1.64	-1.47	-13.00	-28.09
185.200	-50.96	-51.39	2.17	-1.74	-13.00	-37.96
351.070	-61.12	-63.24	4.46	-2.34	-13.00	-48.12
447.100	-65.92	-67.20	3.95	-2.67	-13.00	-52.92
910.760	-63.12	-62.94	3.58	-3.76	-13.00	-50.12
3760.000	-38.61	-43.35	12.46	-7.72	-13.00	-25.61
5640.000	-31.67	-35.62	13.48	-9.53	-13.00	-18.67
7520.000	-31.88	-31.91	11.14	-11.11	-13.00	-18.88
9400.000	-35.77	-34.90	11.60	-12.47	-13.00	-22.77

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:GPRS 1900	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1909.8 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)					
50						
30						
10						
-10						
-30	7					
- <b>50</b> 3 4 6						
-70						
-90 30	4024.	8018. Frequenc	12012. y (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss		0
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.36	-24.67	-10.75	-0.94	-13.00	-23.36
111.480	-38.56	-35.90	-1.32	-1.34	-13.00	-25.56
85.200	-52.35	-52.78	2.17	-1.74	-13.00	-39.35
341.370	-62.17	-64.11	4.25	-2.31	-13.00	-49.17
38.370	-66.20	-67.52	3.95	-2.63	-13.00	-53.20
09.790	-61.73	-61.54	3.57	-3.76	-13.00	-48.73
819.600	-42.55	-47.04	12.30	-7.81	-13.00	-29.55
729.400	-37.38	-41.02	13.24	-9.60	-13.00	-24.38
	25.20	25 72	11.46	-11.13	-13.00	-22.39
639.200	-35.39	-35.72	11.40	-11.13	-13.00	-22.39

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10 10 -30

-50 -70

Report Number	:TERF24040	001131E	R	Test S	Site	:SAC	D	
Operation Mode	:GPRS 1900	)		Test [	Date	:2024	-05-27	
Test Mode	:Tx			Temp	./Humi.	:22.1°	C <b>/65%</b>	
EUT Pol	:H Plane			Anter	na Pol.	:Horiz	ontal	
Test Frequency	:1909.8 MHz	Z		Engir	ieer	:Andy	Lee	
80 Level (dBm/r	m)							_
70								
50								
30								

10

-90 30	4024.	8018. Frequency	12012. y (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-43.29	-31.60	-10.75	-0.94	-13.00	-30.29
135.730	-40.97	-37.86	-1.64	-1.47	-13.00	-27.97
184.230	-50.98	-51.18	1.94	-1.74	-13.00	-37.98
350.100	-62.29	-64.41	4.46	-2.34	-13.00	-49.29
440.310	-65.15	-66.46	3.95	-2.64	-13.00	-52.15
919.490	-62.28	-62.16	3.67	-3.79	-13.00	-49.28
3819.600	-37.44	-41.93	12.30	-7.81	-13.00	-24.44
5729.400	-38.17	-41.81	13.24	-9.60	-13.00	-25.17
7639.200	-35.05	-35.38	11.46	-11.13	-13.00	-22.05
9549.000	-40.25	-39.57	11.90	-12.58	-13.00	-27.25

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B2	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1852.4 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)	1 1 1		1		
70						
50						
30	4					
10						
-10						
-30	8	9 10				
-50 3	7					
-70						
-90 30	4024.		12012.	16006.	20000	
50	4024.	8018. Frequency	y (MHz)	10000.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.52	-24.83	-10.75	-0.94	-13.00	-23.52
08.570	-38.56	-35.81	-1.43	-1.32	-13.00	-25.56
82.290	-54.26	-54.16	1.62	-1.72	-13.00	-41.26
42.340	-61.26	-63.21	4.27	-2.32	-13.00	-48.26
43.220	-63.29	-64.59	3.95	-2.65	-13.00	-50.29
35.370	-64.78	-66.14	4.25	-2.89	-13.00	-51.78
704.800	-48.99	-53.95	12.59	-7.63	-13.00	-35.99
557.200	-37.62	-41.36	13.23	-9.49	-13.00	-24.62
400 000	22.00	-32.99	11.08	-10.98	-13.00	-19.89
409.600	-32.89	-32.99	11.00	-10.90	-13.00	-19.09

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B2	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1°C/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1852.4 MHz	Engineer	:Andy Lee

80 Level (dBr	m/m)					
70						
50						
30	t					
10						
-10						
-30 <del>2</del>	- 8	9 10				
- <b>50</b>	7					
-70						
-90 30	4024.	9019	12012.	16006.	20000	
30	4024.	8018. Frequenc	y (MHz)	10000.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-44.50	-32.81	-10.75	-0.94	-13.00	-31.50
33.790	-41.22	-38.18	-1.57	-1.47	-13.00	-28.22
80.350	-58.11	-57.67	1.27	-1.71	-13.00	-45.11
51.070	-61.85	-63.97	4.46	-2.34	-13.00	-48.85
49.040	-65.64	-66.90	3.94	-2.68	-13.00	-52.64
10.760	-62.37	-62.19	3.58	-3.76	-13.00	-49.37
704.800	-47.92	-52.88	12.59	-7.63	-13.00	-34.92
	11.02					
557.200	-37.27	-41.01	13.23	-9.49	-13.00	-24.27
			13.23 11.08	-9.49 -10.98	-13.00 -13.00	-24.27 -20.99

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B2	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1880 MHz	Engineer	:Andy Lee

80 Level (dBr	m/m)					
70						
50						
30	<b>I</b>					
10						
-10						
-30	- 8	9   10				
- <b>50</b> 3	1					
-70						
-90 30	4024.	8018. Frequenc	12012.	16006.	20000	
_						
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.01	-24.32	-10.75	-0.94	-13.00	-23.01
07.600	-39.09	-36.54	-1.24	-1.31	-13.00	-26.09
82.290	-53.89	-53.79	1.62	-1.72	-13.00	-40.89
326.820	-60.64	-62.36	3.99	-2.27	-13.00	-47.64
41.280	-63.20	-64.50	3.95	-2.65	-13.00	-50.20
919.490	-61.12	-61.00	3.67	-3.79	-13.00	-48.12
760.000	-48.50	-53.24	12.46	-7.72	-13.00	-35.50
640.000	-42.22	-46.17	13.48	-9.53	-13.00	-29.22
520.000	-38.23	-38.26	11.14	-11.11	-13.00	-25.23

11.60

-12.47

-13.00

-31.09

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-43.22

-44.09

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9400.000



30 10 -10 -30

-50 -70

Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B2	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1℃/65%</b>
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1880 MHz	Engineer	:Andy Lee
Test Frequency	:1880 MHz	Engineer	:Andy Lee
Test Frequency		Engineer	:Andy Lee
		Engineer	:Andy Lee

10

	-90						
	-90 30	4024.	8018. Frequenc	12012. y (MHz)	16006.	20000	
	Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	54.250	-43.08	-31.39	-10.75	-0.94	-13.00	-30.08
	133.790	-40.77	-37.73	-1.57	-1.47	-13.00	-27.77
	182.290	-53.83	-53.73	1.62	-1.72	-13.00	-40.83
	351.070	-60.42	-62.54	4.46	-2.34	-13.00	-47.42
	443.220	-65.89	-67.19	3.95	-2.65	-13.00	-52.89
	940.830	-62.86	-62.47	3.43	-3.82	-13.00	-49.86
	3760.000	-48.80	-53.54	12.46	-7.72	-13.00	-35.80
	5640.000	-38.87	-42.82	13.48	-9.53	-13.00	-25.87
	7520.000	-40.67	-40.70	11.14	-11.11	-13.00	-27.67
	9400.000	-39.01	-38.14	11.60	-12.47	-13.00	-26.01

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B2	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1907.6 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)				· · · · · · · · · · · · · · · · · · ·	
70						
50						
30	1					
10						
-10						
-30	7	8 9 10				
- <b>50</b> 3	Í					
-70						
-90 30	4024.	8018.	12012.	16006.	20000	
		8018. Frequency	y (MHz)			
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.10	-24.41	-10.75	-0.94	-13.00	-23.10
108.570	-38.82	-36.07	-1.43	-1.32	-13.00	-25.82
84.230	-53.92	-54.12	1.94	-1.74	-13.00	-40.92
323.910	-60.11	-61.88	4.03	-2.26	-13.00	-47.11
157.770	-62.97	-64.31	4.04	-2.70	-13.00	-49.97
919.490	-60.95	-60.83	3.67	-3.79	-13.00	-47.95
815.200	-48.99	-53.49	12.30	-7.80	-13.00	-35.99
722.800	-44.94	-48.61	13.25	-9.58	-13.00	-31.94
630.400	-45.91	-46.19	11.42	-11.14	-13.00	-32.91
030.400	-40.01	- <del>-</del> 0.13	11.74	11.17	10.00	02.01

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Report Number Operation Mode Test Mode EUT Pol	e :WCDMA B :Tx :H Plane	2	Te Te Ai	ntenna Pol.	:SAC D :2024-05-27 :22.1°C/65% :Horizontal		
Test Frequency	:1907.6 MH	Z	E	ngineer	:Andy Lee		
80 Level (dBm 70 50 30 10 -10 -30 -50 4 6 -70 -90	7						
30	4024.	-	12012. ncy (MHz)	160		0000	
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Lo	SS	mit	Margin
MHz	dBm	dBm	dBi/dBo	l d	B dl	Bm	dB
54.250 134.760 182.290	-44.10 -40.87 -53.68	-32.41 -37.80 -53.58	-10.75 -1.60 1.62		47 -13	3.00 3.00 3.00	-31.10 -27.87 -40.68

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-62.51

-67.10

-62.26

-55.71

-46.23

-44.63

-38.57

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4.30

3.95

3.90

12.30

13.25

11.42

11.88

-2.33

-2.63

-3.92

-7.80

-9.58

-11.14

-12.57

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-47.54

-52.78

-49.28

-38.21

-29.56

-31.35

-26.26

343.310

438.370

991.270

3815.200

5722.800

7630.400

9538.000

-60.54

-65.78

-62.28

-51.21

-42.56

-44.35

-39.26



Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1712.4 MHz	Engineer	:Andy Lee

m/m)					
7 8	9 10				
4024.	8018. Frequency	12012.	16006.	20000	
			0.11	1,	
EIRP/ERP				Limit	Margin
	•			10	10
dBm	aBm	aBI/aBa	aВ	aBm	dB
	04 54	40.75	0.04	40.00	00.00
					-23.20
					-25.67
					-41.07
					-49.01
-62.90	-64.20	3.95	-2.65	-13.00	-49.90
-60.82	-60.74	3.70	-3.78	-13.00	-47.82
-36 15	-41.33	12 55	-7.37	-13.00	-23.15
00.10	11.00	12100			
-35.26	-38.51	12.37	-9.12	-13.00	-22.26
					-22.26 -30.49
		4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         4024.       8018;         60.82       -24.51         -36.20       -24.51         -38.67       -35.92         -54.07       -54.50         -62.01       -63.76         -62.90       -64.20         -60.82       -60.74	4024.       8018. BO18. Frequency (MHz)         4024.       8018. BO18. BO18. Cutput Level dBm       100 Cutput Level dBm         4024.       8018. Cutput Level dBm       12012. Cutput Level dBm         63.20       -24.51       -10.75         -36.20       -24.51       -10.75         -38.67       -35.92       -1.43         -54.07       -54.50       2.17         -62.90       -64.20       3.95         -60.82       -60.74       3.70	4024.       8018- Frequency (MHz)       12012- IGO06- IGAIN       16006- IGAIN         4024.       8018- IFrequency (MHz)       12012- IGAIN       16006- IGAIN         EIRP/ERP       SG Output Level dBm       Antenna dBi/dBd       Cable Loss dB         -36.20       -24.51       -10.75       -0.94         -36.7       -35.92       -1.43       -1.32         -54.07       -54.50       2.17       -1.74         -62.90       -64.20       3.95       -2.65         -60.82       -60.74       3.70       -3.78	4024.       8018       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1712.4 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)	1 1 1				
70						
50						
30						
10						
10						
-10						
-30	7 8	9 10				
-50	- i	9 10				
- <b>70</b>						
-90						
30	4024.	8018. Frequenc	12012. y (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		U
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-43.76	-32.07	-10.75	-0.94	-13.00	-30.76
34.760	-40.52	-37.45	-1.60	-1.47	-13.00	-27.52
83.260	-53.16	-53.20	1.77	-1.73	-13.00	-40.16
353.980	-61.11	-63.23	4.48	-2.36	-13.00	-48.11
39.070	-60.59	-60.57	3.37	-3.39	-13.00	-47.59
97.090	-62.92	-62.94	3.96	-3.94	-13.00	-49.92
424.800	-42.22	-47.40	12.55	-7.37	-13.00	-29.22
137.200	-40.32	-43.57	12.37	-9.12	-13.00	-27.32
849.600	-42.14	-43.75	12.20	-10.59	-13.00	-29.14
562.000	-44.09	-43.78	11.60	-11.91	-13.00	-31.09
002.000			11.00	-11.31	-10.00	-01.09

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> ℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1732.4 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)					
70						
50						
30						
10						
-10						
-30	7 8	9 10				
-50 3 45 6						
-70						
-90						
30	4024.	8018. Frequency	12012. y (MHz)	16006.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		C C
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.77	-25.08	-10.75	-0.94	-13.00	-23.77
07.600	-38.20	-35.65	-1.24	-1.31	-13.00	-25.20
84.230	-54.09	-54.29	1.94	-1.74	-13.00	-41.09
42.340	-61.49	-63.44	4.27	-2.32	-13.00	-48.49
62.620	-62.92	-64.19	3.98	-2.71	-13.00	-49.92
21.430	-61.19	-61.04	3.64	-3.79	-13.00	-48.19
464.800	-36.47	-41.47	12.44	-7.44	-13.00	-23.47
197.200	-36.17	-39.63	12.68	-9.22	-13.00	-23.17
	00.11	00.00	12.00	0.22		
929.600	-37.58	-38.86	11.94	-10.66	-13.00	-24.58

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> ℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1732.4 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)	1 1 1				
70						
50						
30						
10						
-10						
-30	7 8	9 10				
-50 <sup>3</sup>						
-70						
-90 30	4024.	8019	12012.	16006.	20000	
30	4024.	8018. Frequency	y (MHz)	10000.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-42.45	-30.76	-10.75	-0.94	-13.00	-29.45
34.760	-40.47	-37.40	-1.60	-1.47	-13.00	-27.47
82.290	-52.45	-52.35	1.62	-1.72	-13.00	-39.45
52.040	-60.49	-62.61	4.47	-2.35	-13.00	-47.49
37.400	-66.06	-67.38	3.95	-2.63	-13.00	-53.06
05.910	-63.14	-63.08	3.68	-3.74	-13.00	-50.14
464.800	-40.23	-45.23	12.44	-7.44	-13.00	-27.23
197.200	-39.60	-43.06	12.68	-9.22	-13.00	-26.60
		-36.21	11.94	-10.66	-13.00	-21.93
929.600	-34.93	-30.ZI	11.94	-10.00	-10.00	-Z L 90

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1752.6 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)				· · · · · · · · · · · · · · · · · · ·	
70						
50						
30	1					
10						
-10						
-30	7 8	9				
- <b>50</b> 3 45 6						
-70						
-90 30	4024.	8018. Frequenc	12012.	16006.	20000	
_				<b>.</b>		
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.13	-24.44	-10.75	-0.94	-13.00	-23.13
08.570	-38.59	-35.84	-1.43	-1.32	-13.00	-25.59
84.230	-53.84	-54.04	1.94	-1.74	-13.00	-40.84
826.820	-61.15	-62.87	3.99	-2.27	-13.00	-48.15
49.040	-63.62	-64.88	3.94	-2.68	-13.00	-50.62
14.640	-61.18	-61.10	3.70	-3.78	-13.00	-48.18
505.200	-40.07	-44.86	12.30	-7.51	-13.00	-27.07
257.800	-38.15	-42.03	13.12	-9.24	-13.00	-25.15
207.000	00.10	12.00				
010.400	-35.18	-36.14	11.62	-10.66	-13.00	-22.18

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B4	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> ℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1752.6 MHz	Engineer	:Andy Lee

80 Level (dB	m/m)	1 1 1				
70						
50						
30						
10						
-10						
-30	7 8	9 10 I I				
- <b>50</b> 3						
-70						
-90 30	4024.	8018	12012.	16006.	20000	
50	4024.	8018. Frequency	y (MHz)	10000.	20000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-42.54	-30.85	-10.75	-0.94	-13.00	-29.54
134.760	-40.54	-37.47	-1.60	-1.47	-13.00	-27.54
183.260	-52.22	-52.26	1.77	-1.73	-13.00	-39.22
351.070	-61.22	-63.34	4.46	-2.34	-13.00	-48.22
144.190	-66.54	-67.83	3.95	-2.66	-13.00	-53.54
909.790	-63.00	-62.81	3.57	-3.76	-13.00	-50.00
505.200	-43.48	-48.27	12.30	-7.51	-13.00	-30.48
257.800	-42.21	-46.09	13.12	-9.24	-13.00	-29.21
010.400	-37.03	-37.99	11.62	-10.66	-13.00	-24.03
763.000	-39.58	-39.12	11.50	-11.96	-13.00	-26.58

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B5	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:826.4 MHz	Engineer	:Andy Lee

Morgin
Margin
dB
<u>uD</u>
-23.71
-25.50
-41.36
-49.83
-50.83
-48.16
-25.23
-34.32
-41.86
-+1.00

t (886-2) 2299-3279

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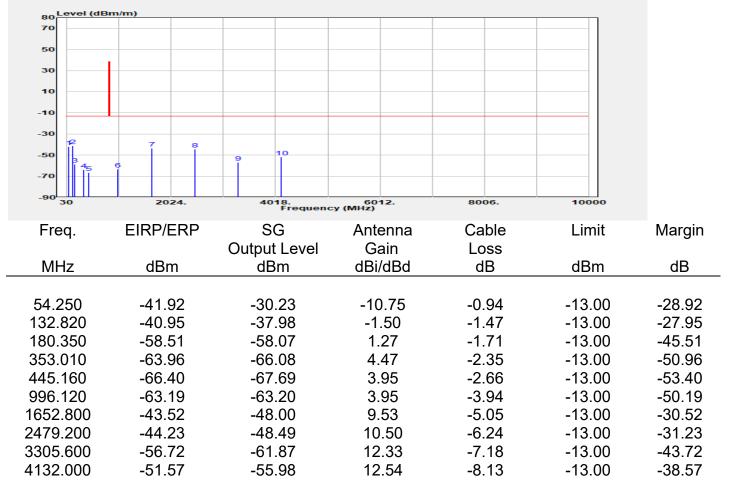
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f (886-2) 2298-0488

www.sgs.com.tw



Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B5	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> ℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:826.4 MHz	Engineer	:Andy Lee



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:SAC D

:Vertical :Andy Lee

-2.27

-2.64

-2.89

-5.07

-6.28

-7.24

-8.21

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-48.87

-50.47

-53.06

-27.73

-35.64

-42.15

-40.63

:2024-05-27 :22.1℃/65%



326.820

440.310

527.610

1673.200

2509.800

3346.400

4183.000

-61.87

-63.47

-66.06

-40.73

-48.64

-55.15

-53.63

Report Number	:TERF2404001131ER	Test Site
Operation Mode	:WCDMA B5	Test Date
Test Mode	:Tx	Temp./Humi.
EUT Pol	:H Plane	Antenna Pol.
Test Frequency	:836.6 MHz	Engineer

80 Level (dB	;m/m)	1 1 1		1	· · · · · · · · · · · · · · · · · · ·	
70						
50					[	
30						
10						
-10						
-30 <u>2</u>	7					
-50 3	8	9 10				
-70						
-90 30	2024.	4018. Frequenc	6012.	8006.	10000	
			y (WHZ)			
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.81	-25.12	-10.75	-0.94	-13.00	-23.81
107.600	-38.84	-36.29	-1.24	-1.31	-13.00	-25.84
182.290	-54.23	-54.13	1.62	-1.72	-13.00	-41.23

3.99

3.95

4.17

9.83

10.60

12.58

12.63

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-63.59

-64.78

-67.34

-45.49

-52.96

-60.49

-58.05

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B5	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:836.6 MHz	Engineer	:Andy Lee

80 Level (dBr	m/m)					
70						
50						
30						
10						
-10						
-30 1	7 8					
-50		9				
-70						
-90 30	2024.	4018.	6012.	8006.	10000	
		4018. Frequency	y (MHz)			
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-44.85	-33.16	-10.75	-0.94	-13.00	-31.85
132.820	-40.82	-37.85	-1.50	-1.47	-13.00	-27.82
180.350	-58.98	-58.54	1.27	-1.71	-13.00	-45.98
350.100	-64.09	-66.21	4.46	-2.34	-13.00	-51.09
445.160	-66.61	-67.90	3.95	-2.66	-13.00	-53.61
512.090	-69.38	-70.62	4.08	-2.84	-13.00	-56.38
673.200	-43.40	-48.16	9.83	-5.07	-13.00	-30.40
2509.800	-44.16	-48.48	10.60	-6.28	-13.00	-31.16
346.400	-56.89	-62.23	12.58	-7.24	-13.00	-43.89

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:SAC D

:Vertical

:2024-05-27 :22.1°C/65%



Report Number	:TERF2404001131ER	Test Site
Operation Mode	:WCDMA B5	Test Date
Test Mode	:Tx	Temp./Humi.
EUT Pol	:H Plane	Antenna Pol.
Test Frequency	:846.6 MHz	Engineer

Test Frequency	y :846.6 MHz				Engir	neer	:Andy	Lee
80 Level (dBr 70 50 30	n/m)							
-10 -30	7							
-50 -70 -90 30	2024.	9	10 18. Frequen	601 cy (MHz)	12.	800	06.	10000
Frea.	EIRP/ERP	S	G	Ante	enna	Са	ble	Limit

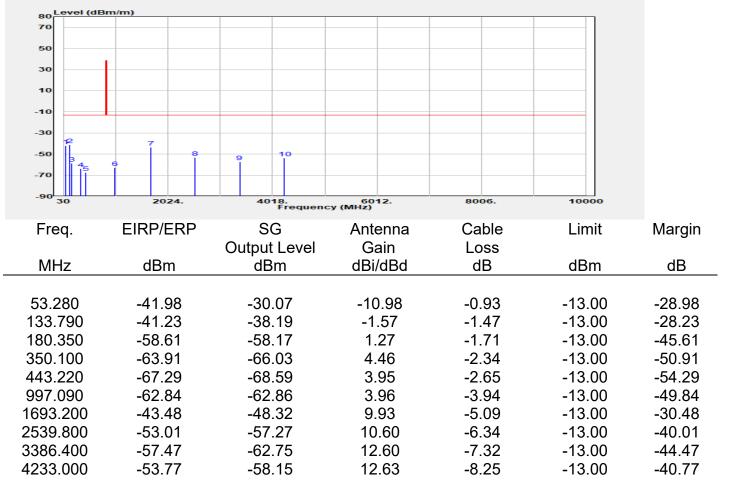
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
54.250	-36.91	-25.22	-10.75	-0.94	-13.00	-23.91
109.540	-38.60	-35.85	-1.42	-1.33	-13.00	-25.60
182.290	-54.52	-54.42	1.62	-1.72	-13.00	-41.52
325.850	-62.71	-64.46	4.01	-2.26	-13.00	-49.71
439.340	-64.03	-65.34	3.95	-2.64	-13.00	-51.03
530.520	-65.60	-66.88	4.18	-2.90	-13.00	-52.60
1693.200	-40.21	-45.05	9.93	-5.09	-13.00	-27.21
2539.800	-55.00	-59.26	10.60	-6.34	-13.00	-42.00
3386.400	-55.45	-60.73	12.60	-7.32	-13.00	-42.45
4233.000	-53.34	-57.72	12.63	-8.25	-13.00	-40.34

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Report Number	:TERF2404001131ER	Test Site	:SAC D
Operation Mode	:WCDMA B5	Test Date	:2024-05-27
Test Mode	:Tx	Temp./Humi.	:22.1℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:846.6 MHz	Engineer	:Andy Lee



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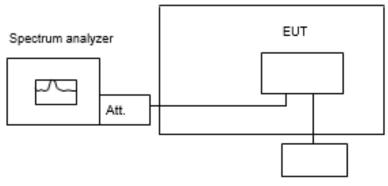
# **12 FREQUENCY STABILITY MEASUREMENT**

#### 12.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 12.2 Test Set-up





Variable DC Power Supply

**Note:** Measurement setup for testing on Antenna connector

#### 12.3 **Measurement Procedure**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

#### 12.4 **Measurement Result**

Note: The car battery is rated 12V dc.

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GPRS 850 Mid Channel 836.6000 MHz								
Vdc	Temp. (℃)	Freq. (MHz)	(ppm)	Limit				
		UENCY ERROR vs. V						
13.8	20	836.5999811	-0.0226					
12	20	836.6000177	0.0212					
10.2	20	836.6000052	0.0062	+/- 2.5 ppm				
4 (End point)	20	836.5999994	-0.0007					
-	FRE	QUENCY ERROR vs.	Temp.					
12	50	836.6000122	0.0146					
12	40	836.599991	-0.0108					
12	30	836.5999947	-0.0063					
12	20	836.5999944	-0.0067					
12	10	836.599994	-0.0072	+/- 2.5 ppm				
12	0	836.5999914	-0.0103					
12	-10	836.5999841	-0.0190					
12	-20	836.5999841	-0.0190					
12	-30	836.6000129	0.0154					
	GP	RS 1900 Mid Channe	1880.0000	MHz				
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit				
	FREQ	JENCY ERROR vs. V	OLTAGE					
13.8	20	1879.999989	-0.0056					
12	20	1880.000016	0.0084	+/- 2.5 ppm				
10.2	20	1879.999998	-0.0009	+/- 2.5 ppm				
4 (End point)	20	1879.999991	-0.0047					
	FRE	QUENCY ERROR vs.	Temp.					
12	50	1880.000003	0.0018					
12	40	1879.999982	-0.0095					
12	30	1879.999994	-0.0034					
12	20	1880.000015	0.0080					
12	10	1879.999994	-0.0031	+/- 2.5 ppm				
12	0	1879.999987	-0.0069					
12	-10	1880.000017	0.0090					
12	-20	1880.000011	0.0057					
12	-30	1879.999991	-0.0046					

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	W	CDMA II Mid Channel	1880.0000	MHz		
Vdc	Temp. (℃)	Freq. (MHz)	(ppm)	Limit		
	FREQUENCY ERROR vs. VOLTAGE					
13.8	20	1879.99999	-0.0054			
12	20	1880.000008	0.0045	+/- 2.5 ppm		
10.2	20	1879.999982	-0.0096	+/- 2.5 ppm		
4 (End point)	20	1879.999989	-0.0061			
	FRE	QUENCY ERROR vs.	Temp.			
12	50	1880.000016	0.0082			
12	40	1879.99999	-0.0052			
12	30	1879.999999	-0.0007			
12	20	1880.000015	0.0078			
12	10	1880.000005	0.0024	+/- 2.5 ppm		
12	0	1880.000018	0.0095			
12	-10	1880.000019	0.0099			
12	-20	1879.999983	-0.0092			
12	-30	1879.99999	-0.0051			
	W	CDMA IV Mid Channel	1732.6000	MHz		
Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit		
	FREQ	UENCY ERROR vs. V	OLTAGE			
13.8	20	1732.600015	0.0088			
12	20	1732.599993	-0.0043	+/ 25 nnm		
10.2	20	1732.599994	-0.0036	+/- 2.5 ppm		
4 (End point)	20	1732.600009	0.0054			
	FREQUENCY ERROR vs. Temp.					
12	50	1732.600011	0.0061			
12	40	1732.600013	0.0076			
12	30	1732.600016	0.0093			
12	20	1732.600011	0.0063			
12	10	1732.600011	0.0062	+/- 2.5 ppm		
12	0	1732.599992	-0.0046			
12	-10	1732.600011	0.0063			
12	-20	1732.600007	0.0039	1		
12	-30	1732.600001	0.0005	-1		

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	W	CDMA V Mid Channel	836.6000	MHz	
Vdc	Temp. (℃)	Freq. (MHz)	(ppm)	Limit	
	FREQUENCY ERROR vs. VOLTAGE				
13.8	20	836.6000021	0.0025		
12	20	836.6000002	0.0002	./ 25 nnm	
10.2	20	836.6000053	0.0063	+/- 2.5 ppm	
4 (End point)	20	836.5999951	-0.0059		
	FR	EQUENCY ERROR vs.	Temp.	-	
12	50	836.6000134	0.0160		
12	40	836.5999822	-0.0213		
12	30	836.5999855	-0.0173		
12	20	836.5999976	-0.0029		
12	10	836.5999891	-0.0130	+/- 2.5 ppm	
12	0	836.6000077	0.0092		
12	-10	836.6000089	0.0106		
12	-20	836.5999802	-0.0237		
12	-30	836.5999969	-0.0037	]	

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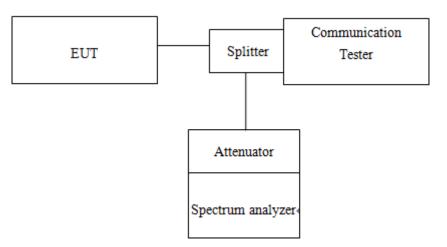


# **13 PEAK TO AVERAGE RATIO**

### 13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

# 13.2 Test SET-UP



#### 13.3 Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

#### 13.4 Measurement Result

Eroa		Peak-to-Average Ratio		
Freq. (MHz)	СН	GPRS	EDGE	
		850	850	
824.2	128	10.13	12.71	
836.6	190	9.82	12.39	
848.8	251	9.48	12.18	
Eroa		Peak-to-Av	erage Ratio	
Freq.	СН	Peak-to-Av GPRS	erage Ratio EDGE	
Freq. (MHz)	СН			
•	<b>CH</b> 512	GPRS	EDGE	
(MHz)		GPRS 1900	EDGE 1900	

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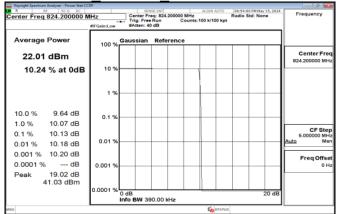


Гиск		Peak-to-Average Ratio (dB)		
Freq.	СН	WCDMA	HSDPA	HSUPA
(MHz)		I	=	I
1852.4	9262	3.16	3.39	3.66
1880	9400	3.18	3.75	3.67
1907.6	9538	3.11	3.30	3.72
Eroa		Peak-to	-Average Ra	tio (dB)
Freq.	СН	WCDMA	HSDPA	HSUPA
(MHz)		IV	IV	IV
1712.4	1312	3.30	4.17	3.99
1732.6	1413	3.26	3.67	3.98
1752.6	1513	3.24	3.52	3.82
Eroa		Peak-to-Average Ratio (dB)		
Freq.	СН	WCDMA	HSDPA	HSUPA
(MHz)		V	V	V
826.4	4132	3.03	3.74	3.55
836.6	4183	3.00	3.40	3.68
846.6	4233	2.91	3.87	3.39

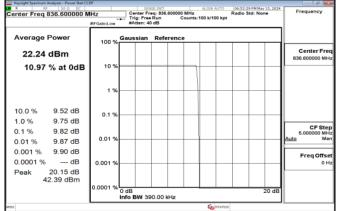
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## GPRS 850MHz LowCH128-824.2



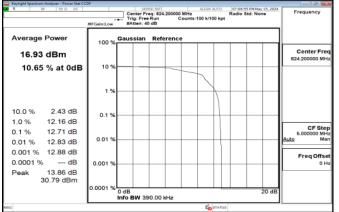
## GPRS 850MHz MidCH190-836.6



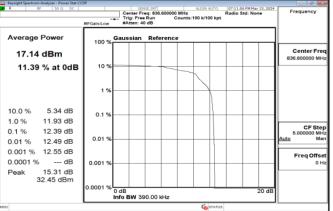
## GPRS 850MHz HighCH251-848.8

Keysight Spectrum Analyzer - Power Stat CC		
Center Freq 848.800000 N	Hz Center Freq: 848.800000 MHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #FGain:Low #Atten: 40 dB	Frequency
Average Power	100 % Gaussian Reference	
22.61 dBm	10 %	Center Freq 848.800000 MHz
11.96 % at 0dB	1 %	
10.0 % 9.16 dB 1.0 % 9.40 dB	0.1 %	_
0.1 % 9.48 dB 0.01 % 9.53 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 9.55 dB 0.0001 % dB Peak 11.89 dB	0.001 %	Freq Offset 0 Hz
34.50 dBm	0.0001 % 0 dB 200 Info BW 390.00 kHz	dB
Dem	<b>K</b> o status	

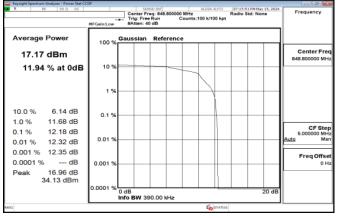
### EDGE 850MHz LowCH128-824.2



## EDGE 850MHz MidCH190-836.6



## EDGE 850MHz HighCH251-848.8



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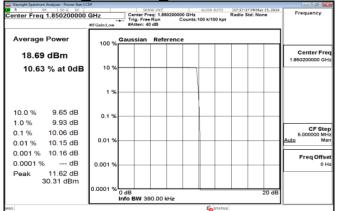
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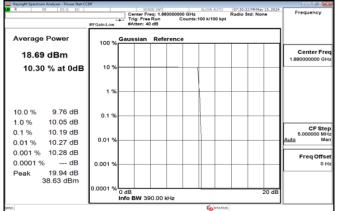
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### GPRS 1900MHz LowCH512-1850.2



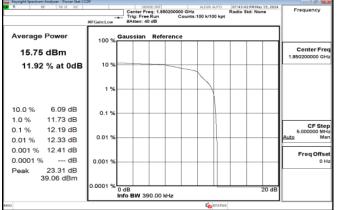
### GPRS 1900MHz MidCH661-1880



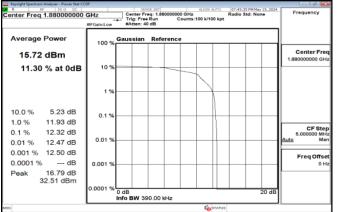
## GPRS 1900MHz HighCH810-1909.8

Keysight Spectrum Analyzer - Power Stat CC		
R R <sup>3</sup> 50 Ω DC	SENSE::N1 ALION AUTO (27-30-35 PM May 13, 20 Center Freq: 1.909800000 GHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt #IFGain:Low #Atten: 40 dB	24 Frequency
Average Power	100 % Gaussian Reference	
18.61 dBm		Center Freq 1.909800000 GHz
10.15 % at 0dB	10 %	
	1 %	
10.0 % 8.70 dB	0.1 %	
1.0 % 10.10 dB 0.1 % 10.23 dB	0.01%	CF Step 5.000000 MHz Auto Man
0.01 % 10.30 dB 0.001 % 10.32 dB	0.0170	FreqOffset
0.0001 % dB Peak 15.13 dB	0.001 %	0 Hz
33.74 dBm	0.0001 % 0 dB 20 dl	в
MBG	Info BW 390.00 kHz	

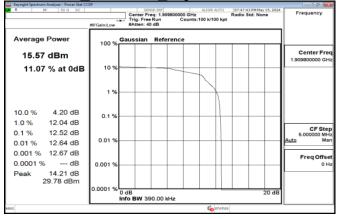
## EDGE 1900MHz LowCH512-1850.2



## EDGE 1900MHz MidCH661-1880



#### EDGE 1900MHz HighCH810-1909.8



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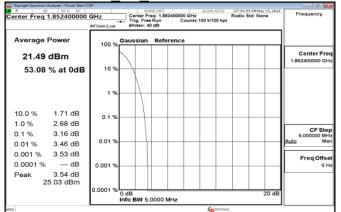
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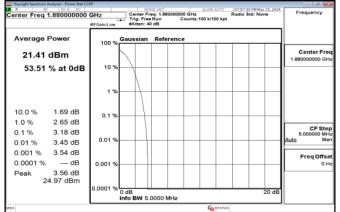
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### WCDMA B2 LowCH9262-1852.4



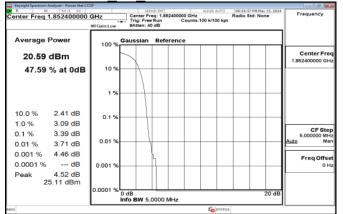
## WCDMA B2 MidCH9400-1880



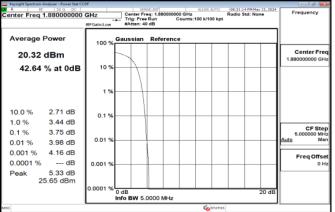
## WCDMA B2 HighCH9538-1907.6

Keysight Spectrum Analyzer - Power Stat CC		0
Center Freq 1.907600000	GHz Center Freq: 1.90700000 GHz Autos Autos View 15, 2024 Trig: Free Run Counts:100 k/100 kpt #IFGainLow #Atten: 40 dB	Frequency
Average Power	100 % Gaussian Reference	
21.18 dBm	10 %	Center Freq 1.907600000 GHz
53.74 % at 0dB	1 %	
10.0 % 1.67 dB 1.0 % 2.62 dB	0.1 %	
0.1 % 3.11 dB 0.01 % 3.38 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 3.44 dB 0.0001 % dB Peak 3.58 dB	0.001 %	Freq Offset 0 Hz
24.76 dBm	0.0001 % 0 dB 20 dB Info BW 5.0000 MHz	
MBG	10 STATUS	

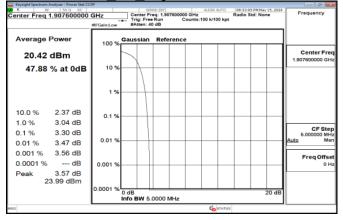
### HSDPA B2 LowCH9262-1852.4



## HSDPA B2 MidCH9400-1880



## HSDPA B2 HighCH9538-1907.6



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