

# SG

# Band Edge Band71 20MHz QPSK RB1 99 CH133372

	m Analyzer - Swept SA							
R Center Fred	RF 50 Ω DC	MHz	SENSE:17	#Avg	ALIGN AUTO Type: RMS	01:43:00 PM Jun 18, 2 TRACE 1 2 3 4	5.6	Frequency
	tef Offset 13.8 dB	PNO: Fast ↔ IFGain:Low	#Atten: 30 dB		M	rr1 698.00 MI -29.479 dB	Ηz	Auto Tune
00 Trace 1								Center Free 698.000000 MH:
10.0 10.0 10.0								Start Fre 678.000000 MH
40.0 50.0 50.0		handha	we ha	harran		****		Stop Fre 718.000000 MH
enter 698.0 Res BW 30	0 kHz		V 1.0 MHz	FUNCTION	Sweep 1	Span 40.00 M .000 ms (1001 p	ts)	CF Ste 4.000000 MH <u>ito</u> Ma
1 N 1 2 3 4 5 6	f	598.00 MHz	-29.48 dBm					Freq Offse 0 H
7 8 9								Scale Typ
10							, Lo	g <u>Li</u>
sa			Π		to status			

# Band Edge\_Band71\_20MHz\_QPSK\_RB100\_0\_CH133222

	ectrum Analyzer						
Center F		50 Ω DC DC	SENSE:17	#Avg Typ	ALIGN AUTO e: RMS	01:27:43 PM Jun 18, 2024 TRACE 1 2 3 4 5	Frequency
PASS	Ref Offse Ref 30.	PNO: Fasi IFGain:Los t 13.8 dB		1	Mk	r1 663.00 MHz -28.230 dBm	Auto Tune
Log	ce 1 Pass						Center Freq 663.000000 MHz
-10.0							Start Free 643.000000 MH
-40.0 -50.0 -60.0							Stop Free 683.000000 MH
Res BW		#\ ×	/BW 1.0 MHz	FUNCTION FUN	<u> </u>	Span 40.00 MHz 000 ms (1001 pts)	CF Ste 4.000000 MH Auto Ma
1 N 2 3 4 5 6	1 1	663.00 MHz	-28.23 dBm				Freq Offse 0 H
7 8 9							Scale Typ
10 11							Log <u>Lir</u>
< ASG			Π.		<b>I</b> status	,	

# Band Edge\_Band71\_20MHz\_QPSK\_RB100\_0\_CH133372

	pectrum Analyzer - Swept SA							
Center I	RF 50 Ω DC	MHz PNO: Fast	SENSE:INT	#Avg Type	ALIGN AUTO B: RMS	TRAC	E 1 2 3 4 5 6	Frequency
PASS	Ref Offset 13.8 dB Ref 30.00 dBm	PNO: Fast	#Atten: 30 dB		M	ot kr1 698.	ANNNN	Auto Tune
00	ce 1 Pass							Center Freq 698.000000 MHz
-10.0 -20.0 -30.0			1	Terre or or owned on				Start Freq 678.000000 MHz
-40.0 -50.0 -60.0					~		49999-141-14-14	Stop Freq 718.000000 MHz
	98.00 MHz V 300 kHz	#VBW		FUNCTION FUN	<u> </u>	Span 4 .000 ms (		CF Step 4.000000 MHz Auto Man
2 3 4 5 6	1 1 6	98.00 MHZ	-26.49 dBm				E	Freq Offset 0 Hz
7 8 9 10								Scale Type
11 MSG			Π.		<b>K</b> STATU:	1	•	

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### SPURIOUS EMISSON AT ANTENNA TERMINALS: 4

Refer to next pages.

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### Band2 1.4MHz QPSK RB1 0 CH18607

SG

	pectrum Analyzer - S							
Center F	RF 50	0000000 GHz	SENS	#Avg Ty	Pe: RMS	TYPE	123456	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	IFGain:Lo			М	kr3 19.39	3 GHz 9 dBm	Auto Tune
20.0 10.0	×1							Center Free 10.015000000 GH
-10.0		2				00	•-10.00 4Dm	Start Fre 30.000000 MH
-40.0 -50.0 -60.0								Stop Fre 20.000000000 GH
#Res BW	0.015 GHz / 1.0 MHz		BW 3.0 MHz			Span 19. .28 ms (199	971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 2 N 3 N 4 5	FRC         SCI           1         f           1         f           1         f	1.850 000 GHz 3.693 GHz 19.393 GHz		n	UNCTION WIDTH	FUNCTION	E	Freq Offs
7 8 9								Scale Typ
10 11				1 1			•	Log <u>Li</u>
MSG					<b>K</b> STATU:			

		Band2_1	.4MHz_C	PSK_RB	1_0_0	CH18900	
CO R	RF 50 Q		SENSE	:INT #Avg Ty	ALIGN AUTO	06:16:49 PM Jun 17, 2024 TRACE 1 2 3 4 5 6	Frequency
	Ref Offset 14	PNO: Fast IFGain:Lov		un		kr3 19.775 GHz -30.07 dBm	Auto Tune
20.0 10.0	Ref 30.00 (	dBm				-30.07 dBm	Center Free 10.015000000 GH:
-10.0		2				0L1-43.00 40m	Start Free 30.000000 MH
-40.0 -50.0 -60.0							Stop Free 20.000000000 GH
Center 10 #Res BW		#V	/BW 3.0 MHz	FUNCTION   FU		Span 19.97 GHz .28 ms (19971 pts)	CF Step 1.997000000 GH Auto Mar
1 N 1 2 N 1 3 N 1 4 6	f f	1,880 GHz 3,790 GHz 19,775 GHz	26.20 dBm -33.08 dBm -30.07 dBm				Freq Offse 0 H
0 7 8 9							Scale Type
11 <			н		STATU	*	Log <u>Lin</u>

# Band2\_1.4MHz\_QPSK\_RB1\_0\_CH19193

Keysight Spectrum Analyzer - Swe						
Center Freq 10.0150	00000 GHz PNO: Fast	SENSE:1	#Avg Type	ALIGN AUTO P: RMS	06:18:17 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	
Ref Offset 14	IFGain:Low	#Atten: 30 dB		Mki	r3 19.392 GHz -30.98 dBm	Auto Tune
20.0 ×1 10.0						Center Freq 10.015000000 GHz
-100	2				011-10.00 40m	Start Freq 30.000000 MHz
-40.0 -50.0 -80.0						Stop Freq 20.000000000 GHz
Center 10.015 GHz #Res BW 1.0 MHz	#VI	BW 3.0 MHz		weep 33.2	Span 19.97 GHz 8 ms (19971 pts) FUNCTION WALLE	CF Step 1.997000000 GHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	1.909 GHz 3.821 GHz 19.392 GHz	26.65 dBm -33.44 dBm -30.98 dBm			E	Freq Offset 0 Hz
7 8 9 10 11						Scale Type
MSG				<b>STATUS</b>	,	

### Band2 3MHz QPSK RB1 0 CH18615

Keysight Spectrum Analyzer - Swept SA				
R RF 50 Ω DC Center Freq 10.01500000	0 GHz RNO: East alter Trig: Free Run	ALIGN AUTO #Avg Type: RMS	06:08:35 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
Ref Offset 14 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	м	kr3 19.218 GHz -28.95 dBm	Auto Tun
				Center Fre 10.015000000 GH
000 000 000			0L1 -13.00 dBm	Start Fre 30.000000 MH
				Stop Fre 20.000000000 GH
renter 10.015 GHz Res BW 1.0 MHz	#VBW 3.0 MHz		Span 19.97 GHz 28 ms (19971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 1 f 1.85 2 N 1 f 3 N 1 f 1 4 5	0 000 GHz 26.06 dBm 3.714 GHz -33.28 dBm 9.218 GHz -28.96 dBm	FUNCTION FUNCTION WIDTH		Freq Offs
6 7 8 9				Scale Typ
10			v	Log <u>Li</u>
ISG		to statu:	8	I

Band2\_3MHz\_QPSK\_RB1\_0\_CH18900

Keysight Spectrum Analyzer - Swept SA				
R RF 50 Ω DC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:10:21 PMJun 17, 2024 TRACE 1 2 3 4 5 6	Frequency
siller Freq 10.01500000	PNO: Fast Trig: Free Run	and a spectrum	DET P N N N N	
	IFGain:Low #Atten: 30 dB		ouri	Auto Tun
Ref Offset 14 dB		M	r3 19.071 GHz	
dB/div Ref 30.00 dBm			-30.79 dBm	
<sup>29</sup> ¥1				Center Fre
0.0				10.015000000 GH
				10.01500000 GH
.00				
0.0			0L1 -10.00 dDn	Start Fre
0.0			3	30.000000 MH
0.0			a l'antitation de	
0.0 Nilling and the second	والمتحدث والمتحدث والمتحدث والمتحدث والمتحقق			
0.0				Stop Fre
0.0				20.00000000 GH
2.0				
enter 10.015 GHz			Span 19.97 GHz	CF Ste
Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 33.	28 ms (19971 pts)	1.997000000 GH
KR MODE TRC SCL X	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 1	1.879 GHz 26.47 dBm			
2 N 1 f 3 N 1 f 1	3.782 GHz -32.55 dBm 19.071 GHz -30.79 dBm			Freq Offs
4				0 H
6				
7				Scale Typ
8				Scale Typ
0				Log L
1			*	

# Band2\_3MHz\_QPSK\_RB1\_0\_CH19185

Keysight Spectrum Analyzer - Swept					
R RF 50 2 Center Freq 10.01500	00000 GHz	SENSE:INT	#Avg Type: RMS	06:11:48 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 14 d		#Atten: 30 dB	М	kr3 19.211 GHz -30.87 dBm	Auto Tune
20.0 ×1					Center Free 10.015000000 GHz
20.0				0.1 -10.00 4Dm	Start Free 30.000000 MH
40.0					Stop Free 20.000000000 GH
Center 10.015 GHz Res BW 1.0 MHz	#VB	N 3.0 MHz	Sweep 33	Span 19.97 GHz 3.28 ms (19971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 6	1.907 GHz 3.837 GHz 19.211 GHz	26.65 dBm -29.62 dBm -30.87 dBm		E	Freq Offse 0 H
6 7 8 9					Scale Typ
10					Log <u>Lir</u>
tsg			STATU	5	I

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# SG

# Band2 5MHz QPSK RB1 0 CH18625

									Analyzer - Swe		ysight	Ke
Frequency	E 1 2 3 4 5 6	TRAC	ALIGN AUTO e: RMS	#Avg Typ	SE:INT		Hz	00000 0		Freq	ter	Cen
Auto Tun	48 GHz	vr3 19.0	м			#Atten: 30	NO: Fast Gain:Low	dB	f Offset 14 f 30.00 d		B/div	
Center Fre 10.015000000 GF								IBM	1	×	Biali	20.0 10.0
Start Fre 30.000000 Mi	0 <u>.1 10.00 a⊡n</u>							2	0		_	10.0 20.0 30.0
Stop Fr 20.00000000 G									الي والترويني ال		<b>نېږ</b> ي	40.0 50.0 60.0
CF St 1.997000000 G Auto M	9.97 GHz 9971 pts)	.28 ms (1				V 3.0 MHz	#VE		MHz	10.013 W 1.0	s Bl	Re
Freq Offs	W VALUE	FUNCTION	ICTION WIDTH	TION	3m Im	27.13 dE -33.36 dE -30.76 dE	i1 GHz 14 GHz 8 GHz	3.73		TRC 50 1 f 1 f 1 f	N N N	1 2 3 4 5 6
Scale Typ											_	7 8 9 10
	· ·				-		-					-
			<b>I</b> status									sG

				Ban	d2_5	MHz_0	QPSł	<_RB1	_0_C	H189	00		
Keysig R	pht Spec	trum A	nalyzer - Sw			50	NSEIINT		ALIGN AUTO	06:02-50 P	M Jun 17, 2024		
Cente	er Fr			000000				#Avg Typ		TRA	CE 1 2 3 4 5 6		requency
					PNO: Fast IFGain:Low	#Atten: 3				D	PNNNN		
10 dB/c			Offset 14						М	lkr3 19.2 -30	219 GHz 80 dBm		Auto Tune
Log		X1	30.00	авт			•						
20.0		-#		-	-		-	-					Center Fred
10.0		+			-	-		-		-		10.01	5000000 GH:
0.00		+											
-10.0	_	#		-	-		-	-	-		0L1 -13.00 dDm		Start Free
-20.0		+	~	2	-	-		-		-	▲3-	3	0.000000 MH:
-30.0					القنب بعاركه	مدرواهم والعمرية	سيمغيعه			والمحق بالتحيير ال	-		
-40.0		- T	and the second second second										Stop Free
-50.0												20.00	0000000 GH
-60.0		+			-			-					
Cente							•				9.97 GHz		CF Step
#Res I	BM .	1.0 1	ЛНz		#VE	3W 3.0 MHz		s	weep 3	3.28 ms (1	9971 pts)	1.99 Auto	7000000 GHz Mar
MRR MO		SCL		×	878 GHz	26.51 d		NCTION FUI	NCTION WIDTH	FUNCT	ON VALUE	- allo	1112
2 N	1	1		3.	727 GHz	-33,49 dl	Bm						Freq Offse
3 N 4	41	1		19.3	219 GHz	-30.80 di	Bm						0 H:
6	-						_				E		011
7 8							_				_		Scale Type
9													acale Type
10	-											Log	Lir
•	'					11					•		
ASG									<b>I</b> STATU	7S			

# Band2\_5MHz\_QPSK\_RB1\_0\_CH19175

Keysight Spectrum Analyzer - Swept SA					
Center Freq 10.015000000 GHz	SENSE:1	#Avg Type	RMS TRA	M Jun 17, 2024 CE 1 2 3 4 5 6	Frequency
PNO: F IFGain: Ref Offset 14 dB 10 dB/div Ref 30.00 dBm	ast Trig: Free Ru Low #Atten: 30 dB		Mkr3 19.1	52 GHz 15 dBm	Auto Tune
Log X1					Center Fred 10.015000000 GH;
-10.0 -20.0 -30.0			at kile in	011-10:00-00m	Start Free 30.000000 MHz
-40.0 -50.0 -60.0					Stop Free 20.00000000 GHz
Center 10.015 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz		veep 33.28 ms (1	9.97 GHz 9971 pts)	CF Step 1.997000000 GH Auto Mar
1 N 1 f 1.906 Gi 2 N 1 f 3.840 Gi 3 N 1 f 19.152 Gi 4 5 6	Iz -33.27 dBm			ш	Freq Offse 0 H
8 9 10					Scale Type
I C C C C C C C C C C C C C C C C C C C	Ħ		<b>I</b> status	,	

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Band2\_10MHz\_QPSK\_RB1\_0\_CH18650

@ <b></b>			05:56:37 PI	ALIGN AUTO		ISE:INT			pt SA	Inalyzer - Swe 50 Q	Spectrum RF	rysight	Ke
Frequency	6	E 1 2 3 4 5	TRAC		#Avg Ty			Hz	00000 G			nter	er
Auto Tun	z	IFGainLow #Atten: 30 dB DET P NNNN IFGainLow #Atten: 30 dB DET P NNNN Mkr3 19.263 GH:								Offset 14 30.00 c		B/div	0 d
Center Fre 10.015000000 GH											×	$\vdash$	.0g 20.0 10.0
Start Fre 30.000000 MF	-	0 <u>L1 -13.00 a</u> ∳ <sup>3</sup>							2	0			0.0
Stop Fre 20.000000000 GF									ياني الأثنية ال		-		0.0 0.0 0.0
CF Ste 1.997000000 GF Auto Ma	s)	9971 pt	Span 1 28 ms (1	weep 33			/ 3.0 MHz	#VB	×	ИHz	10.015 N 1.0 I	s B	Re
Freq Offs 0 F		IN VILOE	Powerne	CHOMMON		3m 3m	27.17 df -33.57 df -30.54 df	1 GHz 5 GHz 3 GHz	1.85		1 f 1 f 1 f	N N N	1 2 3 4 5
Scale Typ											-		6 7 8 9
Log Li													10
		,				-					-		6

Band2\_10MHz\_QPSK\_RB1\_0\_CH18900

Keysight Spectrum Analyzer - Swept SA					
R RF 50Ω DC		SENSE:INT	ALIGN AUTO #Avg Type: RMS	05:58:21 PM Jun 17, 2024 TRACE 1 2 3 4 5 6	Frequency
enter Freq 10.01500000	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	wavg type. Rms	DET P N N N N	
Ref Offset 14 dB 0 dB/div Ref 30.00 dBm			Mkr3 19.651 GHz -30.21 dBm		Auto Tun
og ¥1					Center Fre
0.0	-				10.015000000 GH
				Di 1 42 00 40 4	
0.0				0L1-10.00 dDm	Start Fre 30.000000 MH
		at a an index at a set	a literature description		30.00000 Mir
					Stop Fre
0.0					20.00000000 GH
enter 10.015 GHz				Span 19.97 GHz	CF Ste
Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 33	.28 ms (19971 pts)	1.997000000 GH
R MODE TRC SCL X	.876 GHz	Y FU 26.78 dBm	NCTION FUNCTION WIDTH	EUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3	.741 GHz	-32.54 dBm -30.21 dBm			Freq Offs
5				E	01
6 7 8					Scale Typ
9					Log Li
1					
a			STATU:	5	I

# Band2\_10MHz\_QPSK\_RB1\_0\_CH19150

	n Analyzer - Swept SA						
	50 Ω DC 10.0150000	00 GHz PNO: Fast	SENSE:INT	#Avg Type:		59:48 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
10 dB/div R	ef Offset 14 dB ef 30.00 dBm	IFGain:Low	#Atten: 30 dB			19.124 GHz -30.95 dBm	Auto Tune
20.0 10.0	1						Center Fred 10.015000000 GH;
-10.0	2					01.1 -10.00 dDm	Start Free 30.000000 MH;
40.0 50.0 60.0							Stop Free 20.000000000 GH
Center 10.01 Res BW 1.0	MHz	#VBV	V 3.0 MHz		eep 33.28	oan 19.97 GHz ns (19971 pts)	CF Stej 1.997000000 GH Auto Ma
1 N 1 1 2 N 1 1 3 N 1 1 4 5		1.901 GHz 3.768 GHz 19.124 GHz	25.86 dBm -32.67 dBm -30.95 dBm				Freq Offse 0 H
6 7 8 9 10							Scale Type
11 <			11		STATUS	*	

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### Band2 15MHz QPSK RB1 0 CH18675

SG

	pectrum Anal											
Center F	<sub>R</sub> ⊧ Freq 10	50 Q	DC   D0000 G	Hz NO: Fast		SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAI	MJun 17, 2024 2E 1 2 3 4 5 6 PE MWWWWW	_	requency
10 dB/div		Tset 14	IF(	Sain:Low	#Atten: 30			м	kr3 19.4	23 GHz 62 dBm		Auto Tune
20.0 10.0	×1											Center Free 5000000 GH
-10.0		Q <sup>2</sup>								0.1 -13:00 40m	з	Start Fre
-40.0 -50.0 -60.0											20.00	Stop Fre
Center 1 #Res BW	1.0 MH		×	#VB	W 3.0 MHz	FU	S ICTION FUI		.28 ms (1	9.97 GHz 9971 pts)	1.99 <u>Auto</u>	CF Ste 7000000 GH Ma
1 N 2 N	1 f 1 f 1 f			1 GHz 4 GHz 3 GHz	27.18 dE -33.42 dB -30.62 dB	im m						FreqOffs 0⊦
7 8 9				_								Scale Typ
11	11			-		-				•	Log	Lit
ASG								<b>STATU</b>	5			

				Ban	d2_15	MHz_0	QPSł	K_RB1	0_0	CH189	900		
🔤 Keysigh 🔎 R	ht Spe	ctrum / RF	Analyzer - Sw 50 Ω			SEN	SE:INT		ALIGN AUTO		MJun 17, 2024	<u> </u>	- 6
Cente	r Fr	ed ,	10.0150	00000	GHz PNO: Fast	Trig: Free		#Avg Typ	e: RMS	TY	CE 1 2 3 4 5 6 PE M WWWWW ET P N N N N N		quency
10 dB/d			Offset 14	l dB	II Gam.LOW				N		31 GHz 72 dBm		Auto Tune
Log	IV	Ke X1	30.00	aBm						-00.	72 abiii		
20.0 10.0		+			-	-		-		-			enter Fred 000000 GHa
-10.0					-						DL1-13.00 dDm		Start Free
-30.0			6	2	_						<b>∮</b> <sup>3</sup>	30.0	000000 MHz
-40.0 -50.0 -60.0	أعال												Stop Free
Center #Res E					#VB	W 3.0 MHz		s	weep 3	Span 1 3.28 ms (1	9.97 GHz 9971 pts)		CF Step
MRE MOD	IE TR	C SCL		x	874 GHz	26,56 dB		CTION FUN	ICTION WIDTH	FUNCT	ON VALUE	Auto	Mar
2 N 3 N 4	1	1		3.	753 GHz 931 GHz	-30.72 dB	m				E	F	req Offsel 0 Ha
6 7 8 9		-									=	s	cale Type
10 11												Log	Lin
<						H.			STAT.	us.	,		

# Band2\_15MHz\_QPSK\_RB1\_0\_CH19125

Keysight Spectrum Analyzer - Sw							
Center Freq 10.0150		SENSE:	#Avg Typ	ALIGN AUTO e: RMS	TYPE	123456	Frequency
Ref Offset 14	IFGain:Low			М	oet (r3 18.59	PNNNNN	Auto Tune
20.0 X1							Center Freq 10.015000000 GHz
-10.0	2				0	ut-10:00:00m	Start Freq 30.000000 MHz
-40.0							Stop Freq 20.000000000 GHz
Center 10.015 GHz #Res BW 1.0 MHz	x	BW 3.0 MHz		weep 33.	Span 19 .28 ms (19	971 pts)	CF Step 1.997000000 GHz <u>Auto</u> Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	1.896 GHz 3.791 GHz 18.597 GHz	25.77 dBm -33.36 dBm -30.61 dBm					Freq Offset 0 Hz
7 8 9 10 11							Scale Type
MSG		Π.				,	

### Band2 20MHz QPSK RB1 0 CH18700

Keysight Spectrum Analyzer - Swept S					
R R 50 0 D Center Freq 10.015000	000 GHz	SENSE:INT	#Avg Type: RMS	05:45:39 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 14 dB		#Atten: 30 dB	М	kr3 18.978 GHz -30.87 dBm	Auto Tun
					Center Fre 10.015000000 GH
20.0				0L1-40.00 dBm	Start Fre 30.000000 MH
					Stop Fre 20.000000000 GH
Center 10.015 GHz Res BW 1.0 MHz	#VB\	V 3.0 MHz	Sweep 33	Span 19.97 GHz 28 ms (19971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 5	1.851 GHz 3.705 GHz 18.978 GHz	26.99 dBm -32.89 dBm -30.87 dBm		FUNCTION VALUE	Freq Offse 0 ⊦
6 7 8 9 10					Scale Typ
				· · ·	Log <u>Li</u>
ISG			to statu	5	1

Band2\_20MHz\_QPSK\_RB1\_0\_CH18900

Keysight Spectrum Analyzer - Swept SA				
R RF 50 Ω DC	SENSE:INT	#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
enter Freq 10.01500000	PNO: Fast Trig: Free Run	wavg Type. Rms	TYPE MWWWW DET P NNNN	
	IFGain:Low #Atten: 30 dB			Auto Tun
Ref Offset 14 dB		Mkr	3 19.310 GHz	AutoTun
0 dB/div Ref 30.00 dBm			-30.30 dBm	
og X1				Contro Fra
				Center Fre
0.0				10.015000000 GH
.00				
0.0			0L1 -10.00 dDm	Start Fre
0.0			A3	30.000000 MH
			•	00.000000 111
and the state of t	ويقتعه فتشاهد ويتعشينا فيعر ومعاوين وتواجعون	and the second state of the second states of the second states of the second states of the second states of the		
0.0				Stop Fre
				20.00000000 GH
0.0				
enter 10.015 GHz			Span 19.97 GHz	CF Ste
Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 33.28	8 ms (19971 pts)	1.997000000 G
KR MODE TRC SCL X	Y F	UNCTION FUNCTION WIDTH	EUNCTION VALUE	<u>Auto</u> Ma
1 N 1 f	1.871 GHz 26.50 dBm			
2 N 1 f 3 N 1 f 1	3.752 GHz -33.11 dBm 9.310 GHz -30.30 dBm			Freq Offs
4	-50.50 dbii			01
6			E	
7				
8				Scale Typ
å l				
8 9 0				Loa Li
				Log Li

# Band2\_20MHz\_QPSK\_RB1\_0\_CH19100

	ectrum Analyzer - Swept					
Center F	RF 50 Q Freq 10.01500	00000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	05:48:50 PM Jun 17, 2024 TRACE 1 2 3 4 5 6 TYPE M MANAGEMENT	Frequency
10 dB/div	Ref Offset 14 d Ref 30.00 dE		#Atten: 30 dB	М	kr3 18.862 GHz -29.94 dBm	Auto Tune
20.0 10.0	×1					Center Free 10.015000000 GH
10.0 20.0 30.0					0.1 -10.00 dDm	Start Free 30.000000 MH
40.0 50.0 50.0						Stop Fre 20.000000000 GH
	0.015 GHz 1.0 MHz	#VB	W 3.0 MHz	Sweep 33	Span 19.97 GHz 3.28 ms (19971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 2 N 3 N 4 5	1 f 1 f 1 f	1.891 GHz 3.787 GHz 18.862 GHz	26.38 dBm -32.43 dBm -29.94 dBm		E	Freq Offse 0 H
6 7 8 9						Scale Typ
10			п.			Log <u>Li</u>
SG				<b>I</b> STATU	s	

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# SG Band4 1.4MHz OPSK RB1 0 CH19957

Kaulahi fas	ectrum Analyzer - Swept S		<u> </u>			
R	RF 50 0 D req 10.015000	000 GHz	SENSE:INT	ALIGN	TRACE 1 2 3 4 5 6	Frequency
) dB/div	Ref Offset 14 dB		Trig: Free Run #Atten: 30 dB		Mkr3 19.450 GHz -30.16 dBm	Auto Tu
	X1					Center Fre 10.015000000 Gł
0.0					0L1 - 12.00 dBm	Start Fre 30.000000 Mi
						Stop Fr 20.000000000 G
	0.015 GHz 1.0 MHz	#VE	W 3.0 MHz	Sweep	Span 19.97 GHz 33.28 ms (19971 pts)	CF St 1.997000000 G Auto M
1 N 1 2 N 1 4 5 5	1 1	1.711 GHz 3.414 GHz 19.450 GHz	25.56 dBm -34.54 dBm -30.16 dBm			Freq Offs 0
7 8 9 0						Scale Typ
	+ +		11		, , ,	

	175	CH20 <sup>-</sup>	1_0_0	K_RB	QP	MHz_	4_1.					
Frequency	AM Jun 18, 2024 ACE 1 2 3 4 5 6 YPE M WWWWW	TRAI	ALIGN AUTO e: RMS	#Avg Typ	NSE:INT		iHz NO: Fast	DC 00000 G		RF		<b>X</b> R
Auto Tun	Ref Offset 14 dB Mkr3 19.801 GHZ dBd/dv Ref 30.00 dB -31.09 dB											
Center Fre 10.015000000 GH		-01.						IBM	r 30.00 d	×1	B/div	20.0 10.0
Start Fre 30.000000 MH	DL1-13:00 dDm							1	<sup>2</sup>			-10.0 -20.0 -30.0
Stop Fre 20.000000000 GH											-	40.0 -50.0 -60.0
CF Ste 1.997000000 GH Auto Ma	19.97 GHz 19971 pts)	3.28 ms (1	<u> </u>	S		V 3.0 MHz	#VI	x	MHz	1.0	ter 10 s BW	#Re
Freq Offse 0 ⊦	=				Bm Bm	26.01 d -35.14 d -31.09 d	2 GHz 8 GHz 1 GHz	3,48		1	N 1 N 1 N 1	1 2 3 4 5
Scale Typ												6 7 8 9 10
	*	J.S.	STATU			н	_			-	-	11 <

# Band4\_1.4MHz\_QPSK\_RB1\_0\_CH20393

Keysight Spe	ctrum Analyzer - Sw	ept SA					- a 🗷
Center F	RF 50 Q	000000 GHz	SENSE:	#Avg Type	RMS	4 AM Jun 18, 2024 RACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 14 Ref 30.00		#Atten: 30 d		Mkr3 19	.576 GHz 1.01 dBm	Auto Tune
20.0 10.0	×1						Center Freq 10.015000000 GHz
-10.0 -20.0 -30.0		2			it	011-10.00 40m	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0							Stop Freq 20.000000000 GHz
Center 10 #Res BW	1.0 MHz	#V	BW 3.0 MHz		weep 33.28 ms	19.97 GHz (19971 pts)	CF Step 1.997000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6	Ť	1.754 GHz 3.530 GHz 19.576 GHz	26.61 dBm -34.49 dBm -31.01 dBm	1		E	Freq Offset 0 Hz
7 8 9 10 11							Scale Type
MSG			Π		<b>STATUS</b>	•	

Band4 3MHz QPSK RB1 0 CH19965

Keysight Spectrum Analyzer - Swept SA					
R RF 50 Ω DC Center Freq 10.01500000	0 GHz	SENSE:INT #Avg Ty		07 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB	PNO: Fast Trig: Fu IFGain:Low #Atten:	ree Run 30 dB		B.409 GHz	Auto Tun
					Center Fre 10.015000000 GH
00 00 00 00				0.1 -1300 dDm	Start Fre 30.000000 MF
					Stop Fre 20.000000000 GF
enter 10.015 GHz Res BW 1.0 MHz	#VBW 3.0 MH		Sweep 33.28 m		CF Ste 1.997000000 GF Auto Mi
2 N 1 f 3 N 1 f 4 5	0 000 GHz 26.81 3.400 GHz -33.26 8.409 GHz -30.52	dBm dBm	FU	NCTION VIALUE	Freq Offs
6 7 8 9 0					Scale Typ
					Log Li
sa			STATUS		

Band4\_3MHz\_QPSK\_RB1\_0\_CH20175

Keysight Spectrum Analyzer - Swept SA					
R RF 50 Ω DC		SENSE:INT	ALIGN #Avg Type: RN		
enter Freq 10.01500000	PNO: Fast ++- IFGain:Low	Trig: Free Run #Atten: 30 dB	#Avg Type: RM	TYPE NN	NNN N
Ref Offset 14 dB 0 dB/div Ref 30.00 dBm				Mkr3 18.851 G -30.89 d	
og ¥1					Center Fre
0.0					10.015000000 GH
10				01.1-10.0	Start Fre
0.0				•	30.000000 MH
			No. of Concession, Name		Stop Fre
0.0					20.00000000 GH
0.0					
enter 10.015 GHz Res BW 1.0 MHz	#VBW	3.0 MHz	Swee	Span 19.97 ( p 33.28 ms (19971	pts) 1.997000000 GH
TR MODE TRC SCL X	.731 GHz	26.76 dBm	FUNCTION FUNCTION	FUNCTION VALUE	Auto Ma
2 N 1 f 3	.431 GHz	-34.52 dBm -30.89 dBm			Freq Offse
4					0 H
7					Scale Typ
9					
1					- Log Li
a			r)-	STATUS	

# Band4\_3MHz\_QPSK\_RB1\_0\_CH20385

	ectrum Analyzer - Sw					
Center F	RF 50 0 req 10.0150	000000 GHz	SENSE:INT	#Avg Type: RMS	09:07:15 AM Jun 18, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
10 dB/div	Ref Offset 14		#Atten: 30 dB	M	Det P NNNNN Ikr3 19.816 GHz -30.45 dBm	Auto Tune
20.0 10.0	×1					Center Free 10.015000000 GH:
-10.0 -20.0 -30.0		2			01.1 -10.00 4Dm	Start Fre 30.000000 MH
40.0 50.0 60.0						Stop Fre 20.000000000 GH
Center 10 Res BW		#VI	BW 3.0 MHz	Sweep 3	Span 19.97 GHz 3.28 ms (19971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 1 2 N 1 3 N 1 4 5	1 1 1	1.752 GHz 3.475 GHz 19.816 GHz	26.69 dBm -34.06 dBm -30.45 dBm			Freq Offse 0 H
6 7 8 9						Scale Typ
10						Log <u>Li</u>
ASG				STATU	15	I

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Band4 5MHz QPSK RB1 0 CH19975

SG

	ctrum Analyzer - !										- 6 .
Center F	RF 50 req 10.01	5000000 0	SHz	Trig: Free		#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Jun 18, 2024 2E 1 2 3 4 5 6 2E M WWWWW	Free	quency
10 dB/div	Ref Offset Ref 30.00	IF 14 dB	Gain:Low	#Atten: 30	dB		м	kr3 19.0	87 GHz 35 dBm	4	Auto Tune
20.0 10.0	×										enter Fred 100000 GHa
-10.0 -20.0 -30.0		2							0 <u>.1 -13 00 40m</u> ∳ <sup>3</sup>		Start Free
-40.0 -50.0 -60.0											Stop Free
Center 10 #Res BW			#VB	W 3.0 MHz		s	weep 33	.28 ms (1	9.97 GHz 9971 pts)	1.9970 Auto	CF Ste 100000 GH Mai
MOR MODE 1 1 N 1 2 N 1 3 N 1 4 5 6	f f	3.39	11 GHz 98 GHz 97 GHz	26.401 dB -34.88 dB -31.35 dB	m m	ICTION FU	NCTION WIDTH	FUNCTI	E	_	req Offse 0 H
7 8 9 10											cale Typ
10									· ·	Log	Lir
MSG								1			

		Band4_	5MHz_QI	PSK_RB	1_0_C	H20175	
Keysight Sp	RF 50.0		SENSE	INT	ALIGN AUTO	09:00:24 AM Jun 18, 20	24
Center F	req 10.0150	000000 GHz		#Avg T	ype: RMS	TRACE 1 2 3 4	5 6 Frequency
		PNO: Fast IFGain:Lov				DET P NNN	NN
10 dB/div	Ref Offset 14 Ref 30.00 (				М	kr3 19.051 GH -30.74 dB	
20.0	¥1						
							Center Free 10.015000000 GH
10.0							10.015000000 GH
-10.0						01.1004	_
-20.0							Start Free
-30.0	2					<b>●</b> <sup>3</sup>	- 30.000000 MH
-30.0	- Verner	and the second second	والمحاوية والمحاول	ويستجار فأعدت والل	and the second	A COLORED AND A	**
-50.0							Stop Free
-60.0							20.00000000 GH
Center 10 #Res BW	0.015 GHz 1.0 MHz	#V	BW 3.0 MHz		Sweep 33	Span 19.97 Gi 3.28 ms (19971 pi	1.997000000 GH
MKR MODE T		x	Y	FUNCTION	UNCTION WOTH	EUNCTION VALUE	Auto Mar
1 N 2	1	1.731 GHz 3.432 GHz	26.759 dBm -35.15 dBm				
3 N 1	1	19.051 GHz	-30.74 dBm				Freq Offse
5							он;
7 8							Scale Type
9							
11							Log Lin
*					STATU	•	

# Band4\_5MHz\_QPSK\_RB1\_0\_CH20375

	ctrum Analyzer - Swe	ept SA							
Center Fi	RF 50 Ω req 10.0150		SENS	#	Avg Type	ALIGN AUTO E: RMS	TRAC	M Jun 18, 2024 2E 1 2 3 4 5 6 2E M WWWWW	Frequency
10 dB/div	Ref Offset 14 Ref 30.00 d		#Atten: 30			М	vr3 19.9	58 GHz 78 dBm	Auto Tune
20.0 10.0	×1								Center Freq 10.015000000 GHz
-10.0 -20.0 -30.0								011-10-00-00m 3	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0									Stop Freq 20.00000000 GHz
Center 10 #Res BW	1.0 MHz	x	BW 3.0 MHz			weep 33.	.28 ms (1	9.97 GHz 9971 pts)	CF Step 1.997000000 GHz <u>Auto</u> Man
1 N 1 2 N 1 3 N 1 4 5 6	1 1	1.751 GHz 3.492 GHz 19.958 GHz	26.763 dBr -34.61 dBr -30.78 dBr	m					Freq Offset 0 Hz
7 8 9 10 11									Scale Type
MSG			Π.			<b>I</b> status		•	

Band4\_10MHz\_QPSK\_RB1\_0\_CH20000

											Analyzer - Swep		Keysight
Frequency		M Jun 18, 202 CE 1 2 3 4 5		GN AUTO	a Type:	#Av	SE:INT	SEM	17		50 Ω 10.0150	Fred	R
Auto Tur	Ň	ET P NNN	TY		• . //			Trig: Free #Atten: 3	in:Low	PN			inter
		53 dBr									f Offset 14 f 30.00 d		dB/div
Center Fre	11											Ť1	9 
10.015000000 GH	╢				-	+							.0
		n											.0
Start Fre 30.000000 Mi					_	-					2		0
					تبنين	-	alited in	in an in the second	أكرابهم	وبين الأدوره		-	.0
Stop Fre 20.000000000 GF					-	+							0
05.04		19.97 GH	Cnon 1								CHa	10.01	
CF Ste 1.997000000 G	31		3pair 1 28 ms (1	ep 33.	Sw			3.0 MHz	#VBW			W 1.0	
Auto M	4	ION VALUE	FUNCTI	ON WOTH	FUNC	NCTION		Y 26,828 dE	011-	× 1.71		TRC SC	R MODE N
Freq Offs	I						m	-35.39 dE -30.53 dE	GHz	3,40		1 1	N
01					-		_		_				
October The	III 8												-
scale Typ	Ш				-		_						
Scale Typ .og L				_			-						

Band4\_10MHz\_QPSK\_RB1\_0\_CH20175

Keysight Spectrum Analyzer - Swept SA				
R RF 50 Ω DC	SENSE:	INT ALIGN AUTO #Avg Type: RMS	08:54:58 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
enter Fred 10.01500000	PNO: Fast Trig: Free Ri IFGain:Low #Atten: 30 d	un an	DET P N N N N	
Ref Offset 14 dB 0 dB/div Ref 30.00 dBm		Μ	kr3 19.854 GHz -30.50 dBm	Auto Tur
og X 1				Center Fre
0.0				10.015000000 G
00			011-12-00-dDa	
0.0 A2			3	Start Fre 30.000000 Mi
		interview in the second second	and the second second second	
0.0				Stop Fr 20.000000000 G
0.0				20.000000000
enter 10.015 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 3	Span 19.97 GHz 3.28 ms (19971 pts)	CF St 1.997000000 G
R MODE TRC SCL X	1.728 GHz 27.080 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M
2 N 1 f N 1 f 19 4	3.458 GHz -34.46 dBm 9.854 GHz -30.50 dBm			Freq Offs 0
5 6 7			E	Scale Tyr
9				
1				Log L
a		STATU	s .	

# Band4\_10MHz\_QPSK\_RB1\_0\_CH20350

	ectrum Analyzer - Sw						
Center F	RF 50 0 req 10.0150	DC D00000 GHz PNO: Fas	SENS	#A1	aLIGN AUTO	08:56:24 AM Jun 18, TRACE 1 2 3 TVPF M WWW	456 Frequency
10 dB/div	Ref Offset 14	IFGain:Lo			M	TYPE N N DET P N N -30.47 dl	Hz Auto Tun
20.0 10.0	×1						Center Fre 10.015000000 GH
10.0 20.0 30.0	02	2				0.1 -10.0 \$	Start Fre     3     30.000000 MH
40.0 50.0 50.0							Stop Fre 20.00000000 GH
	0.015 GHz 1.0 MHz	#\	/BW 3.0 MHz	EUNCTION	Sweep 3	Span 19.97 ( 3.28 ms (19971	1.997000000 GH
1 N 1 2 N 1 3 N 1 4 5	1 1 1	1.746 GHz 3.487 GHz 18.818 GHz	26.415 dBr -34.88 dBr -30.47 dBr	n			Freq Offse
6 7 8 9							Scale Typ
10				1			- Log Li
ISG					STAT.	/5	

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# Band4 15MHz QPSK RB1 0 CH20025

SG

Keysight Spi	ectrum Analyzer - Swej			_				
Center F	RF 50 Ω req 10.0150	00000 GHz	SENSE	#Avg 1	ALIGN AUTO Type: RMS	08:47:48 AM Ju TRACE 1	23456	Frequency
10 dB/div	Ref Offset 14 Ref 30.00 d	PNO: Fast IFGain:Low dB	, Trig: Free Ri #Atten: 30 d		М	kr3 18.910 -31.10		Auto Tun
20.0 10.0	×1							Center Fre 10.015000000 GF
10.0 20.0 30.0	2 2					0.1	-10.00 dDm	Start Fre 30.000000 Mi
40.0 60.0 60.0								Stop Fre 20.000000000 GF
Center 10 Res BW		#V	BW 3.0 MHz		Sweep 33	Span 19.9 .28 ms (199	71 pts)	CF Ste 1.997000000 GF Auto Ma
1 N 1 2 N 1 3 N 1 4 5	f	1.711 GHz 3.393 GHz 18.910 GHz	26.904 dBm -34.45 dBm -31.10 dBm		FUNCTION WIDTH	FUNCTION	E	Freq Offs 0 F
7 8 9								Scale Typ
10								Log L
<			.11		STATU:	5	•	

		Band4_1	5MHz_QF	PSK_RB1	0_0	CH2017	75	
R	ectrum Analyzer - Swe RF   50 Ω req 10.0150	DC	SENSE:IN	#Avg Type	ALIGN AUTO e: RMS	TYPE	123456	Frequency
10 dB/div	Ref Offset 14 Ref 30.00 c	IFGain:Low	#Atten: 30 dB		м	kr3 19.60	7 GHz 5 dBm	Auto Tun
20.0 10.0	×1							Center Fre 10.015000000 GH
-10.0						p	1-10:00 dDm	Start Fre 30.000000 MH
40.0 -50.0 -60.0								Stop Fre 20.000000000 GH
Center 10 #Res BW		#VE	BW 3.0 MHz		<u> </u>	Span 19 8.28 ms (19	971 pts)	CF Ste 1.997000000 GH Auto Ma
1 N 1 2 N 1 3 N 1 4 5 6	1	1.726 GHz 3.437 GHz 19.607 GHz	27.222 dBm -33.51 dBm -30.86 dBm				E	Freq Offse 0 H
6 7 8 9 10 11							3	Scale Typ
<					In STATU	4	, <sup>*</sup>	

# Band4\_15MHz\_QPSK\_RB1\_0\_CH20325

🔤 Keysight Spe	sctrum Analyzer - Si						
Center F	RF 50 S	000000 GHz	SENSE	#Avg Ty	ALIGN AUTO	08:50:58 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 1 Ref 30.00				M	kr3 18.886 GHz -30.53 dBm	Auto Tune
20.0 10.0	×1						Center Freq 10.015000000 GHz
-10.0 -20.0 -30.0		2				011-10.00 dDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0							Stop Freq 20.00000000 GHz
Center 10 #Res BW	1.0 MHz	#\ ×	/BW 3.0 MHz	FUNCTION	Sweep 33	Span 19.97 GHz .28 ms (19971 pts) FUNCTIONWALUE	CF Step 1.997000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4 6	1 1	1.741 GHz 3.496 GHz 18.886 GHz	-34.83 dBn	n		E	Freq Offset 0 Hz
7 8 9 10 11							Scale Type
MSG							

Band4 20MHz QPSK RB1 0 CH20050

										n Analyzer - Swe		👝 Key
Frequency	15.6	AM Jun 18, 2 ACE 1 2 3 4	TR	ALIGN AUTO	#Avg Tvp	ISE:INT	SE	:47		50 Q 10.0150		R
Auto Tur	Hz	193 G	kr3 19.	м			#Atten: 3	NO: Fast Sain:Low	PI IFI dB	of Offset 14	R	
Center Fre 10.015000000 GH	sm	.60 dE	-30						Bm	ef 30.00 d 1	idiv R	0 de 0 g 20.0
Start Fre 30.000000 MH		0.1 -10.00										0.00 10.0 10.0
Stop Fre 20.00000000 GF	-		ەتە <sub>لەرلىر</sub> د.		in the second		i incinente t	-	ن میں الجان ال	<u>^</u> 2	مايينې مېرې	0.0 0.0 0.0
CF Ste 1.997000000 G		19.97 G 19971 p		weep 33	s		/ 3.0 MHz	#VB			er 10.01 BW 1.0	
Auto M Freq Offs	Î	TION VALUE	FUNC	CTION WIDTH	CTION FU	Bm Im	26.338 dl -35.50 dl -30.60 dl	1 GHz 9 GHz 3 GHz	3.41		008 TRO 54 N 1 1 N 1 1	1 2
01												4 6 7
Scale Typ												8 9 0
	,			STATU:		-						50

Band4\_20MHz\_QPSK\_RB1\_0\_CH20175

Keysight Spectrum Analyzer - Si					
R RF 50 Senter Freg 10.015		SENSE:INT	#Avg Type: RMS	08:44:06 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
enter Freq 10.015	PNO: Fast HEGain: Low	Trig: Free Run #Atten: 30 dB	and grapher and	DET P NNNNN	
Ref Offset 1 dB/div Ref 30.00	4 dB		м	kr3 19.987 GHz -30.87 dBm	Auto Tun
					Center Fre
0.0					10.015000000 GH
.00					
10				011-10.00 dDm	Start Fre 30.000000 MH
0.0		part of the second states, she	ور والمعطاط العلول الم والم		
0.0					Stop Fre
0.0					20.00000000 GH
enter 10.015 GHz Res BW 1.0 MHz	#VB\	N 3.0 MHz	Sweep 33	Span 19.97 GHz .28 ms (19971 pts)	CF Ste 1.997000000 GH
R MODE TRC SCL	x		CTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 f 2 N 1 f N 1 f	1.724 GHz 3.450 GHz 19.987 GHz	26.334 dBm -33.52 dBm -30.87 dBm			Freq Offs
4	19.987 GHZ	-30.87 dBm			01
6 7					Scale Typ
8 9 0					Log Li
1				*	
a			I STATU	6	I

# Band4\_20MHz\_QPSK\_RB1\_0\_CH20300

	ctrum Analyzer										×
R R Center F		5000000	GHz		SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAI	M Jun 18, 2024 CE 1 2 3 4 5 6 PE M WWWWW	Frequency	/
10 dB/div	Ref Offse Ref 30.0	t 14 dB	PNO: Fast FGain:Low	#Atten: 30			м	• kr3 19.3	TO GHZ	Auto T	une
20.0 10.0	X1									Center F 10.015000000	
20.0									01.1 -10.00 dDm	Start F 30.000000	
10.0 10.0 10.0	-	in in the			at the second					Stop F 20.000000000	
	0.015 GHz 1.0 MHz		#VB	W 3.0 MHz	FIIM		weep 33	3.28 ms (1	9.97 GHz 9971 pts)	CF S 1.997000000 Auto	
1 N 1 2 N 1 3 N 1 4 5		3.4	736 GHz 172 GHz 176 GHz	25.729 dB -33.93 dB -29.98 dB	m m				E	FreqOf	fsi 0⊦
6 7 8 9										Scale T	
10					-					Log	Li
ISG							<b>I</b> statu	s		L	_

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# Band5 1.4MHz QPSK RB1 0 CH20407

SG

	ctrum Analyzer - Swej					- 4 -
Center Fr	req 5.01500		SENSE:INT	#Avg Type: R	TYPE M WANNAWA	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d				Mkr3 3.853 GHz -32.40 dBm	Auto Tune
20.0 10.0	×1					Center Free 5.015000000 GH
-10.0 -20.0 -30.0			<b>▲</b> <sup>3</sup>		DL1-10:00 dDn	Start Free 30.000000 MH
-40.0	المتكلم مسمين ورغو					Stop Fre 10.00000000 GF
Center 5.0 #Res BW	1.0 MHz	#V	BW 3.0 MHz	SW4	Span 9.970 GHz eep 16.62 ms (9971 pts	CF Ste 997.000000 MH Auto Ma
1 N 1 2 N 1 3 N 1 4 5 6	1 1 1	824 MHz 1.671 GHz 3.853 GHz	25.45 dBm -36.71 dBm -32.40 dBm			Freq Offse
7 8 9 10						Scale Typ
11						

		Band5_'	1.4MHz_	QPS	K_RB	1_0_	CH20	525		
Keysight Sp	ectrum Analyzer - Swe									
	RF 50 Q reg 5.01500	0000 GHz		ENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAI	M Jun 18, 2024		equency
		PNO: Fa IFGain:L					D	PE NWWWW ET P NNNNN		Auto Tune
10 dB/div	Ref Offset 13. Ref 30.00 d						Mkr3 3.8 -32.	11 GHz 83 dBm		Auto Tune
Log	¥1			T						
20.0										Center Frec 5000000 GHz
10.0									5.01	5000000 GH2
0.00										
-10.0					-			0L1 -13.00 dDm		Start Free
-20.0			A3						30	.000000 MHa
-30.0	A Car	a substantial designation	and the second second	and the second second	فالم والمعاد الله	بندر وعطط		والقاقة ومراجع والع		
-40.0	And the second second									Stop Free
-50.0									10.00	0000000 GH2
-60.0					-					
Center 5.				•				.970 GHz		CF Step
#Res BW	1.0 MHz	#	VBW 3.0 MH	z		Sweep	16.62 ms (	9971 pts)	997 Auto	.000000 MHz Man
MAR MODE T		×	Y		CTION FU!	ICTION WIDT	H FUNCTI	ON VALUE	Huto	mai
2 N	Ŧ	836 MH 1.672 GH	z -37.22 d	IBm						
3 N 1	1 1	3.811 GH	z -32.83 d	IBm						Freq Offsel 0 Ha
5								E		0 H2
7										
8							-	_		Scale Type
10									Log	Lin
				1			1	•		
MSG						<b>I</b> STAT	US			

# Band5\_1.4MHz\_QPSK\_RB1\_0\_CH20643

	ctrum Analyzer - Swe						
Center F	RF 50 Q req 5.01500		SENSE:	#Avg Ty	ALIGN AUTO	09:35:31 AM Jun 18, 202 TRACE 1 2 3 4 5 TYPE M WWWW	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d					Mkr3 3.847 GH -32.76 dBr	z Auto Tune
20.0 10.0	×1						Center Freq 5.015000000 GHz
-10.0 -20.0 -30.0			<b>∳</b> <sup>3</sup>			011-19.00 40	Start Freq 30.000000 MHz
-40.0 <b>xtdyrd</b> -50.0 -60.0							Stop Freq 10.000000000 GHz
Center 5. #Res BW	1.0 MHz	#VI	BW 3.0 MHz	FUNCTION F	Sweep 1	Span 9.970 GH 6.62 ms (9971 pt function value	Z CF Step 997.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6		848 MHz 1.687 GHz 3.847 GHz	26.09 dBm -37.28 dBm -32.76 dBm				Freq Offset 0 Hz
7 8 9 10 11							Scale Type
MSG					<b>K</b> STATU	s	

# Band5 3MHz QPSK RB1 0 CH20415

Keysight Spectrum Analyzer - Swept SA					
R RF 50 Ω DC	GH7	SENSE:INT	#Avg Type: RMS	09:27:05 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB					
0 dB/div Ref 30.00 dBm 20.0 ¥1				-31.93 dBm	Center Fre
0.00					5.015000000 GH
000 000 000	3			0(1-10:00 dDm	Start Fre 30.000000 MF
					Stop Fre 10.000000000 GH
enter 5.015 GHz Res BW 1.0 MHz	#VBW	3.0 MHz		Span 9.970 GHz 6.62 ms (9971 pts)	CF Ste 997.000000 MH Auto Ma
2 N 1 f 3 N 1 f 4 5	4.000 MHz 1.611 GHz 3.089 GHz	26.16 dBm -36.92 dBm -31.93 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offse 0 H
6 7 8 9					Scale Typ
10					Log L
sa			<b>K</b> STATU	s .	

Band5\_3MHz\_QPSK\_RB1\_0\_CH20525

Keysight Spectrum Analyzer - Swept SA			
R RF 50 Ω DC	GHz	#Avg Type: RMS T	6 AM Jun 18, 2024 RACE 1 2 3 4 5 6 Frequency
Ref Offset 13.8 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr3 9	Auto Tun 2.71 dBm
20.0 X1			Center Fre 5.015000000 GH
0002			30.000000 MH
			Stop Fre 10.00000000 GH
enter 5.015 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 16.62 m	1 9.970 GHz s (9971 pts) HICNIVAUE
	835 MHz 25.99 dBm 1.641 GHz -37.63 dBm 9.812 GHz -32.71 dBm		Freq Offse
7 8 9			Scale Typ
			v Log Li

# Band5\_3MHz\_QPSK\_RB1\_0\_CH20635

	ctrum Analyzer - Sw										×
R Center Fr	RF 50 2 req 5.01500	00000 GH	z		SE:INT	#Avg Typ	ALIGN AUTO	TRA	M Jun 18, 2024 CE 1 2 3 4 5 6 PE M WWWWW	Frequency	
10 dB/div	Ref Offset 13 Ref 30.00	IFG 3.8 dB	0: Fast 🚥 ain:Low	#Atten: 30				Mkr3 2.7	40 GHz 38 dBm	Auto Tu	une
20.0 10.0	×1									Center Fr 5.015000000 G	
20.0	^2	<b>∮</b> <sup>3</sup>							011-10:00 dDm	Start Fr 30.000000 M	
40.0 50.0 60.0		ing the second				**************************************		And and a second		Stop Fr 10.000000000 G	
Center 5.0 Res BW	1.0 MHz	×	#VBV	V 3.0 MHz	FUN		Sweep 1	6.62 ms	9.970 GHz (9971 pts)	CF St 997.000000 M Auto M	te MH Ma
1 N 1 2 N 1 3 N 1 4 5	1 1 1	846 1.654 2.740	MHz GHz GHz	26.37 dB -36.81 dB -32.38 dB	m				_	Freq Off	se ) H
6 7 8 9										Scale Ty	ур
10										Log	Lir
ASG							<b>K</b> STATU	s		L	-

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# Report No.: TERF2405001538E2 Page: 115 of 201

### Band5 5MHz QPSK RB1 0 CH20425

SG

	ectrum Analyzer - Sw						
Center F	req 5.01500		SENSE:	#Avg	ALIGN AUTO Type: RMS	09:21:43 AM Jun 18, 2024 TRACE 1 2 3 4 5	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 (			3		Mkr3 810 MHz -23.51 dBm	Auto Tu
.0g 20.0 10.0 0.00	×1						Center Fr 5.015000000 G
10.0 20.0 10.0	♦ <sup>3</sup>	- h skeles				Di_1 -13.00 dDm	Start Fr 30.000000 M
0.0 0.0 0.0	at with the second s						Stop Fr 10.000000000 G
	015 GHz 1.0 MHz	#V	BW 3.0 MHz	FUNCTION	Sweep	Span 9.970 GHz 6.62 ms (9971 pts)	
1 N 1 2 N 1 3 N 1 4 5 6	1 1 1	825 MHz 1.618 GHz 810 MHz	26.13 dBm -36.82 dBm -23.61 dBm	PUNCTION	FUNCTION WOTH		Freq Off
7 8 9 0							Scale Ty
-			11	• •		· · · · ·	
IG .					🚺 STATU	s	

		Band	5_5N	1Hz_Q	PSK	_RB1	_0_0	CH205	25		
Keysight Sp	RF 50 Q			SEN S	E:INT		ALIGN AUTO	109-22-25 A	M Jun 18, 2024		-   #   <del>x</del>
Center F	req 5.01500	00000 GHz	): Fast	1		#Avg Typ	e: RMS	TRA	PE NNNNN		quency
			in:Low	#Atten: 30				-			Auto Tune
10 dB/div	Ref Offset 13 Ref 30.00 c							Mkr3 3.8 -32.	56 GHz 52 dBm		Auto Tune
Log	¥1										
20.0											enter Freq 000000 GHz
0.00										0.010	000000 0112
-10.0									0L1-49.00 dDm		Start Freq
-20.0										30.	000000 MHz
-30.0											
-40.0 graph							and the local date				Stop Freq
-50.0										10.000	000000 GHz
Center 5. #Res BW			#VBW	3.0 MHz			Sweep	Span 9 16.62 ms (	.970 GHz 9971 pts)		CF Step 000000 MHz
MKR MODE T		X		Y		TION FUI	NCTION WIDT	H FUNCTI	ON VALUE	Auto	Man
1 N 2 N		1.697		26.01 dB -37.46 dB	m				_	L .	
3 N 1	f	3.856	GHz	-32.52 dB	m				_	I '	req Offset 0 Hz
5 6									E	<u> </u>	
7									_		Scale Type
9 10										Log	Lin
11					-			-	•	-	-
MSG							<b>I</b> stat	US			

# Band5\_5MHz\_QPSK\_RB1\_0\_CH20625

	ectrum Analyzer - Swe							
Center F	RF 50 Q req 5.01500		SENSE	#Avg Typ	ALIGN AUTO	TRAC	MJun 18, 2024	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 c	IFGain:Low	#Atten: 30 c		1	Akr3 3.8	27 GHz 97 dBm	Auto Tune
20.0 10.0	×1							Center Freq 5.015000000 GHz
-10.0 -20.0 -30.0			<b>∳</b> <sup>3</sup>	1			011-13:00 dDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0								Stop Freq 10.00000000 GHz
Center 5. #Res BW	1.0 MHz	#VI	BW 3.0 MHz		Sweep 1	6.62 ms (	.970 GHz 9971 pts)	CF Step 997.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6	1 f	845 MHz 1.696 GHz 3.827 GHz	26.33 dBn -37.01 dBn -31.97 dBn	1				Freq Offset 0 Hz
6 7 8 9 10 11								Scale Type
MSG			Π		<b>K</b> STATU:	5	•	I

Band5 10MHz QPSK RB1 0 CH20450

R RF S0.0 DC					09:16:22 AM Jun 18, 20	
R RF 50 Ω DC	GHz	SENSE:IN	#Avg	ALIGN AUTO Type: RMS	TRACE 1 2 3 4	5 6 Frequency
Ref Offset 13.8 dB	PNO: Fast	Trig: Free Run #Atten: 30 dB			Mkr3 3.838 GH -31.50 dBi	Auto Tur
0 dB/div Ref 30.00 dBm 20 10 10.0						Center Fre 5.015000000 G
0.0					DL1 +13.00 at	Start Fr
		يهدا المتداخين أوانيا	-			Stop Fr 10.000000000 G
enter 5.015 GHz Res BW 1.0 MHz		3.0 MHz			Span 9.970 GH 6.62 ms (9971 pt	Iz CF St
Res BW 1.0 MHZ	#VBW	25.85 dBm	FUNCTION	ер -	· ·	Auto M
2 N 1 f	1.638 GHz 3.838 GHz	-36.79 dBm -31.50 dBm				Freq Offs 0
7 8 9						Scale Ty
10						Log
a				<b>E</b> STATU	•	

Band5\_10MHz\_QPSK\_RB1\_0\_CH20525

R         P         Sign Dc         Speciality         ALIGN AUTO         Op18803 AMD ist, 282 5         Frequency           Center Freq 5.015000000 GHz         PNO; Fax ++-         Trig: Free Run         #Aren: 30 dB         Trig! PNO; Fix ++-         Frequency
PNO: Fast Trig: Free Run TYPE M WWWWY
IFGain:Low #Atten: 30 dB DETIPININININ
Auto T
MKr3 9.149 GHZ
0 dB/div Ref 30.00 dBm -32.75 dBm
.09 X1
Center
0.0 5.01500000
0.0
0.0 0.1 10.0 40.4 Start F
30.000000
Stop F
10.00000000
enter 5.015 GHz CF s
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 16.62 ms (9971 pts) 997.000000
KRI MODELTRC SCL X Y EUNCTION LEUNCTION WIDTH EUNCTION VALUE
1 N 1 f 832 MHz 26.07 dBm
2 N 1 f 1.627 GHz -37.06 dBm 3 N 1 f 9.149 GHz -32.76 dBm Freq Of
4
5 E
5 6 6 F
Scale 7 5 8 9 9 9
S

# Band5\_10MHz\_QPSK\_RB1\_0\_CH20600

	ectrum Analyzer - !										d 💽
Center Fi	RF 50	000000 G	Hz		E:INT	#Avg Ty	ALIGN AUTO	TRA	M Jun 18, 2024 CE 1 2 3 4 5 6 PE M WWWWW	Freque	ncy
10 dB/div	Ref Offset Ref 30.00	13.8 dB	NO: Fast ⊶ Gain:Low	#Atten: 30				Mkr3 3.7	ET P N N N N N		o Tun
.0g 20.0 10.0	×1									Cente 5.0150000	
20.0		2		3					011-10:00 dDm	Sta 30.0000	rt Fre
40.0 50.0 50.0	****		البريونة، (م		مۇلە <del>لەر</del> ىيەتە		in Minutida			Sto 10.0000000	<b>p Fre</b> 100 Gi
enter 5.0 Res BW	1.0 MHz	x	#VB\	W 3.0 MHz	FUN		Sweep	16.62 ms	.970 GHz 9971 pts)	997.0000 Auto	F Ste 100 Mi Mi
1 N 1 2 N 1 3 N 1 4 5	1 1 1	1.7	40 MHz 04 GHz 51 GHz	26.02 dB -37.15 dB -32.05 dB	m					Freq	Offs 0 i
6 7 8 9										Scal	
10					1					Log	L
isg							<b>K</b> STATL	JS		I	_

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SG

# Band12 1.4MHz QPSK RB1 0 CH23017

Keysight Spe	ctrum Analyzer - Sw						
Center F	RF 50 Ω req 5.01500	00000 GHz	SENSE:	#Avg	ALIGN AUTO Type: RMS	09:39:25 AM Jun 18, 2024 TRACE 1 2 3 4 5 TVDF M MMMMM	Frequency
10 dB/div	Ref Offset 13 Ref 30.00		#Atten: 30 d			TYPE DET P NNNN Mkr3 3.259 GH: -32.20 dBn	Auto Tun
20.0 10.0	×1						Center Fre 5.015000000 GH
-10.0	2	<b>♦</b> <sup>3</sup>				0.1 19.00 404	Start Fre 30.000000 MH
40.0 40.0 60.0							Stop Fre 10.000000000 GF
Center 5. #Res BW	1.0 MHz		W 3.0 MHz		· · ·	Span 9.970 GH 6.62 ms (9971 pts	
MORE MORE 1 1 N 1 2 N 1 3 N 1 4 5 6		× 699.000 MHz 1.401 GHz 3.259 GHz	26.81 dBm -38.05 dBm -32.20 dBm		FUNCTION WOTH	FUNCTION VALUE	Freq Offs
7 8 9 10 11							Scale Typ
ASG	• •		II	• • •	<b>K</b> STATU	s	

	E	Band12	_1.4M	Hz_C	PSI	<_RB	1_0_	CH23	095	
Keysight Spe	RF 50 Q	pt SA		SENSE:1	NTÍ		a IGN AUTO	09-41-09 A	M Jun 18, 2024	
Center F	req 5.01500	0000 GHz		ig: Free Ru		#Avg Typ		TRAC	E123456	Frequency
		PNO: IFGain		Atten: 30 dB				D		Auto Tu
10 dB/div	Ref Offset 13. Ref 30.00 d							Mkr3 3.9 -32.	26 GHz 70 dBm	Auto Tu
Log	¥1									
20.0										Center Fre 5.015000000 Gi
0.00										3.01300000 6
-10.0									0L1-49.00 dDm	Start Fre
-20.0			A3							30.000000 M
-30.0	^2		<b>A</b>				- hu			
-40.0	<del>افعانياؤو</del> يهايمار									Stop Fre
-50.0										10.00000000 G
-60.0										
Center 5. #Res BW			#VBW 3.0	MHz		1	Sweep	Span 9 16.62 ms (	.970 GHz 9971 pts)	CF Ste 997.000000 M
MAR MODE TO	C SCL	x		Y	FUNCT	TION FUN	CTION WIDT	H FUNCTION	ON VALUE	Auto M
1 N 1 2 N 1	1	707 M		6.26 dBm 7.37 dBm						
3 N 1	1	3.926 G		2.70 dBm						Freq Offs
6			_						E	
7										Scale Tvr
9			_							
11										Log L
MSG							STAT.	US		L

# Band12\_1.4MHz\_QPSK\_RB1\_0\_CH23173

🔤 Keysight Spe	sctrum Analyzer - Su							
Center F	RF 50 2 req 5.0150	00000 GHz	SENSE:	#Avg T	ALIGN AUTO	09:42:34 AM Jun TRACE 1 2	2456	Frequency
10 dB/div	Ref Offset 13 Ref 30.00		#Atten: 30 dl		1	Mkr3 3.804 -31.72		Auto Tune
20.0 10.0	¥1							Center Freq 5.015000000 GHz
-10.0 -20.0 -30.0			<b>♦</b> <sup>3</sup>			0,1-1	9 <del>.00 dDn</del>	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0								Stop Freq 10.000000000 GHz
Center 5. #Res BW	1.0 MHz	x	BW 3.0 MHz		Sweep 1	Span 9.970 6.62 ms (997	1 pts)	CF Step 997.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 6 7	1 1 1	715 MHz 1.410 GHz 3.804 GHz	24.81 dBm -36.90 dBm -31.72 dBm				_	Freq Offset 0 Hz
7 8 9 10 11								Scale Type
MSG					STATU:	5	,	

### Band12 3MHz QPSK RB1 0 CH23025

Keysight Spectrum Analyzer - Swept SA					
R RF 50 0 DC Center Freq 5.015000000	GHz .	SENSE:INT	#Avg Type: RMS	09:57:24 AM Jun 18, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
Ref Offset 13.8 dB		rig: Free Run Atten: 30 dB		Mkr3 3.783 GHz -32.70 dBm	Auto Tun
					Center Fre 5.015000000 GH
100 200 300 ∧2	\$ <sup>3</sup>			0L1 -13.00 dDm	Start Fre 30.000000 MH
					Stop Fre 10.000000000 GH
Res BW 1.0 MHz	#VBW 3.		Sweep 1	Span 9.970 GHz 6.62 ms (9971 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 1 f 699 2 N 1 f 3 N 1 f 4 5	1.407 GHz -	26.80 dBm 37.86 dBm 32.70 dBm		E	Freq Offs
6 7 8 9					Scale Typ
10					Log Li
sa			STATU	s	I

Band12\_3MHz\_QPSK\_RB1\_0\_CH23095

Keysight Spectrum Analyzer - Swept SA					
R RF 50 Ω DC	CHa	SENSE:INT	#Avg Type: RMS	09:59:08 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
enter Freq 5.01500000	PNO: Fast Tr	ig: Free Run .tten: 30 dB	and graphenetic	DET P N N N N	
Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm			Ν	1kr3 3.843 GHz -31.67 dBm	Auto Tun
0.0 ¥1					Center Fre
0.0					5.015000000 GH
.00				011-10:00 40m	0 F
	3				Start Fre 30.000000 Mi
			والمتحرية والمتأوات والمحدود المروحة	attinent of the state of the st	
0.0	_				Stop Fre
.0					
enter 5.015 GHz Res BW 1.0 MHz	#VBW 3.0	MHz	Sweep 1	Span 9.970 GHz 6.62 ms (9971 pts)	CF Ste 997.000000 MH
R MODE TRC SCL X	706 MHz 2	Y FUN 6.54 dBm	CTION EUNCTION WIDTH	FUNCTION VALUE	Auto Ma
2 N 1 f 3 N 1 f	1.447 GHz -3	7.95 dBm 1.67 dBm			Freq Offs
5 6 7				E	
8					Scale Typ
1					Log L
a			STATUS	•	

# Band12\_3MHz\_QPSK\_RB1\_0\_CH23165

Keysight Spectrum Analyzer - Swept SA				
Center Freq 5.01500000	) GHz	#Avg Type: RMS	10:00:33 AM Jun 18, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	PNO: Fast ++- Trig: Fre IFGain:Low #Atten: 3		Mkr3 3.825 GHz -31.90 dBm	Auto Tune
20.0 10.0 0.00				Center Free 5.015000000 GH
-10.0 -20.0 -30.0 ∧2	3		01.1 +13:00 x0m	Start Free 30.000000 MH
40.0		i in the second s	(4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Stop Fre 10.000000000 GH
Center 5.015 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep	Span 9.970 GHz 16.62 ms (9971 pts)	CF Ste 997.000000 MH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 5	714 MHz 25.00 df 1.466 GHz -38.11 df 3.825 GHz -31.90 df	Bm Bm		Freq Offse 0 H
6 7 8 9				Scale Typ
10				Log <u>Lir</u>
MSG		To STAT	rus	1

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# Report No.: TERF2405001538E2 Page: 117 of 201

### Band12 5MHz QPSK RB1 0 CH23035

S

Keysight Spectrum Analyzer - Swept				
R RF 50 2 Center Freq 5.015000	DC SENSI DOOD GHZ RNO: East site Trig: Free F	#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8	IFGain:Low #Atten: 30 o		Mkr3 3.879 GHz -32.15 dBm	Auto Tun
-09 ×1 20.0 10.0 0.00				Center Fre 5.015000000 GF
100 200 300	3		DL1 +13.00 dDm	Start Fre 30.000000 Mi
0.0 <b></b>				Stop Fr 10.000000000 G
enter 5.015 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep	Span 9.970 GHz 16.62 ms (9971 pts)	CF St 997.000000 M Auto M
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	700 MHz 26.75 dBn 1.398 GHz -37.67 dBn 3.879 GHz -32.16 dBn	1		Freq Offs 0
7 8 9 10				Scale Ty
			*	

		Band12_	5MHz_Q	PSK_RB	1_0_	CH230	95	
Keysight Sp R	ectrum Analyzer - Sw RF 50 Ω		SENSE:1	INT	ALIGN AUTO	0 09:53:41 A	M Jun 18, 2024	
Center F	req 5.01500	D0000 GHz PNO: Fast	Trig: Free Ru	#Avg Ty	pe: RMS	TY	E 1 2 3 4 5 6	Frequency
		IFGain:Low	#Atten: 30 dE				PNNNNN	Auto Tune
10 dB/div	Ref Offset 13 Ref 30.00					Mkr3 3.8 -32.	93 GHz 53 dBm	Auto Tun
Log	¥1							
20.0								Center Free 5.015000000 GH
10.0								5.015000000 GH
-10.0								
-20.0							011-10/00 000	Start Free
-20.0			<b>≜</b> <sup>3</sup>					30.000000 MH
40.0	and all the second	and the second sec	A way wat the second	وريز والمريب أوجه الغري		-	in seturation	
-50.0								Stop Free
-60.0								10.00000000 GH:
Center 5. #Res BW		#VF	3W 3.0 MHz		Sween	Span 9 16.62 ms (	.970 GHz	CF Step 997.000000 MH
				FUNCTION				Auto Mar
1 N 1	1	706 MHz	26.54 dBm	TORCHOW	SNETION HID	in one in		
2 N 3		1.413 GHz 3.893 GHz	-36.81 dBm -32.53 dBm				_	Freq Offse
4						_		0 H:
6							1	
8							_	Scale Type
9								Log <u>Lir</u>
11							*	
ASG					The STAT	TUS		L

# Band12\_5MHz\_QPSK\_RB1\_0\_CH23155

	ctrum Analyzer - Swe							
Center F	RF 50 Ω req 5.01500		SENSE	#Avg Ty	ALIGN AUTO pe: RMS	TRAC	E 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 (		#Atten: 30 d		1	/kr3 3.7	39 GHz 36 dBm	Auto Tune
20.0 10.0	×1							Center Freq 5.015000000 GHz
-10.0 -20.0 -30.0	2		3				011-10:00 dDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	here was a second and the second and			tin transferred the sur				Stop Freq 10.000000000 GHz
Center 5. #Res BW	1.0 MHz	#VI	BW 3.0 MHz	FUNCTION FI	Sweep 1	6.62 ms (	.970 GHz 9971 pts)	CF Step 997.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6	1 1 1	712 MHz 1.440 GHz 3.739 GHz	26.25 dBm -38.22 dBm -32.36 dBm	î l				Freq Offset 0 Hz
7 8 9 10 11			17					Scale Type Log <u>Lin</u>
MSG					to statu:	s	,	

### Band12 10MHz QPSK RB1 0 CH23060

Keysight Spectrum Analyzer - Swept SA					
enter Freq 5.015000000	GHz	#Avg Type	RMS TRAI		Frequency
Ref Offset 13.8 dB	PNO: Fast Trig: Fn IFGain:Low #Atten:		Mkr3 3.2	284 GHz 47 dBm	Auto Tur
00 ×1					Center Fre
00 00 00 ~~2	<b>→</b> <sup>3</sup>			0(1-13)00 dDm	Start Fre 30.000000 Mi
	n haan <sup>din k</sup> aja di <sup>din</sup> kaja di na padi di		tyldynyria y ffretr y chydda	10.	<b>Stop Fr</b> 000000000 G
enter 5.015 GHz Res BW 1.0 MHz	#VBW 3.0 MH		weep 16.62 ms (	Auto	CF Ste 97.000000 M
N         1         f         X           1         N         1         f         2           2         N         1         f         3           3         N         1         f         4           5         -         -         6         -	700 MHz 26.59 c 1.437 GHz -37.89 c 3.284 GHz -32.47 c	IBm	FUNCTI		Freq Offs
6 7 8 9					Scale Typ
0				Log	L

Band12\_10MHz\_QPSK\_RB1\_0\_CH23095

Keysight Spectrum Analyzer - Swept SA					
R RF 50 Ω DC Center Freq 5.015000000	GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:48:15 AM Jun 18, 2024 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB		Mkr3 3.793 GHz -32.22 dBm	Auto Tun
					Center Fre
10.0	_			DL1 -10.00 dDm	Start Fre
	*************************************	مند بر الأثارين. مند بر الأثارين	Critic a Marca ), a scientifica alfred	والتورية المراجع والمراجع	30.000000 MH
					Stop Fre 10.00000000 GH
enter 5.015 GHz Res BW 1.0 MHz	#VBW	3.0 MHz		Span 9.970 GHz 6.62 ms (9971 pts)	CF Ste 997.00000 MH Auto Ma
3 N 1 f 4	703 MHz 1.444 GHz 3.793 GHz	26.45 dBm -38.01 dBm -32.22 dBm	UNCTION FUNCTION WDTH	FUNCTION VALUE	Freq Offs
5 6 7 8 9				E	Scale Typ
9					Log <u>Li</u>
80		н	STATU:		

# Band12\_10MHz\_QPSK\_RB1\_0\_CH23130

	ctrum Analyzer - Swe					
Center Fr	RF 50 Q	0000 GHz	SENSE:INT	#Avg Type: RMS	09:49:40 AM Jun 18, 2024 TRACE 1 2 3 4 5 6 TYPE M	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d		#Atten: 30 dB	I	Mkr3 4.757 GHz -32.51 dBm	Auto Tun
20.0 10.0	*1					Center Fre 5.015000000 GH
10.0	2		3		01.1 -10.00 40 <del>0</del>	Start Fre 30.000000 MF
0.0 0.0 0.0					alter tangen an stand an	Stop Fre 10.000000000 GF
enter 5.0 Res BW	1.0 MHz	#VI	BW 3.0 MHz	Sweep 1	Span 9.970 GHz 6.62 ms (9971 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 1 2 N 1 3 N 1 4 5	1 1 1 1	707 MHz 1.396 GHz 4.757 GHz	26.12 dBm -37.34 dBm -32.61 dBm		E	Freq Offs 0 H
6 7 8 9						Scale Typ
11			17			Log <u>Li</u>
sa				<b>K</b> ostatu	s	

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