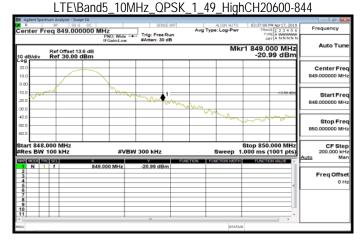


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LTE\Band5_10MHz_QPSK_1_0_LowCH20450-829

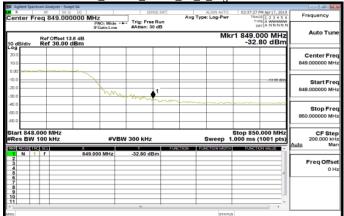
Agilent Spectrum Analyzer - Swept SA	_			
R RF 50 2 DC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:32:38 PN Apr 17, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
PNO: Wide → IFGain:Low Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm	≓ Trig: Free Run #Atten: 30 dB	Mkr	1 824.000 MHz -22.18 dBm	Auto Tune
00 000				Center Freq 824.000000 MHz
	~~~~~~~	~~~	Consection	Start Freq 823.000000 MHz
				Stop Free 825.000000 MHz
NOR MODE TRC SCL X		Sweep 1.	Stop 825.000 MHz 000 ms (1001 pts)	CF Step 200.000 kHz Auto Man
N         1         f         824.000 MHz           3         -         -         -           4         -         -         -           5         -         -         -           6         -         -         -         -	-22.18 dBm			Freq Offset 0 Hz
0 7 8 9 10				
	m.	, ,	•	



# LTE\Band5 10MHz QPSK 50 0 LowCH20450-829

M Agilent Sper	trum Ana	lyzer - Swept S									
Center F	req 8		00 MHz		1	SE:INT	Avg T	ALIGN AUTO ype: Log-Pwr	TRA	DN Apr 17, 2019	Frequency
10 dB/div	Ref (	offset 13.6 30.00 dE	IFGai dB	Wide ++	#Atten: 30			M	(r1 824.0	00 MHz 14 dBm	Auto Tune
20.0 10.0											Center Freq 824.000000 MHz
-10.0 -20.0 -30.0						1	m			-10.00 ilDin	Start Freq 823.000000 MHz
-40.0 -50.0 -60.0											Stop Freq 825.000000 MHz
Start 823 #Res BW	100 k		×	#VBW	300 kHz	FILM	CTION 1	Sweep	1.000 ms (	.000 MHz 1001 pts)	CF Step 200.000 kHz Auto Man
1 N 2 3 4 5 6 7 8 9 10 11	1		824.000 1	MHz	-31.14 dB						Freq Offset 0 Hz
MSG					191			STAT	us	•	1

### LTE\Band5_10MHz_QPSK_50_0_HighCH20600-844



#### LTE\Band13_5MHz_QPSK_1_0_LowCH23205-779.5



#### LTE\Band13_5MHz_QPSK_1_24_HighCH23255-784.5

🌉 Agilent Spe											0	
Center F	reg 71	50 Q 87.000	DOO MH2			ISE:INT	Avg	ALIGN AUTO Type: Log-Pw	TRA	M Apr 17, 2019	Frequenc	:y
10 dB/div	Ref C	fiset 13. 30.00 d	PN IFC	Ю:Wide ↔ Sain:Low	#Atten: 3			М	kr1 787.0	00 MHz	Auto	Tune
20.0 10.0		<u>30.00 u</u>	- (								Center 787.000000	
-10.0	~~~~	~~~			Ser.	1 \				-10:00 dBm	Start 786.000000	
-40.0 -50.0 -60.0	-	_									Stop 788.000000	Freq MHz
Start 786 #Res BW	51 kH		×		/ 150 kHz		CTION	Sweep	1.000 ms (	.000 MHz 1001 pts)	CF 200.00 Auto	Step 0 kHz Man
1 N 2 3 4 5 6 7 7 8 9 10 11	1 1		787.00	0 MHz	-15.94 dE	3m					Freq O	0 Hz
9 10 11								STAT	us	•		

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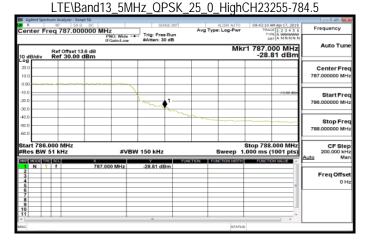
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#### LTE\Band13_5MHz_QPSK_25_0_LowCH23205-779.5

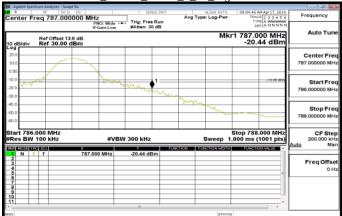
📕 Agilent Spec	ctrum Analyzer - Swept SA						
Center F	req 777.000000	MHz	SENSE:	Avg T	ALIGN AUTO ype: Log-Pwr	09:15:27 AM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm	PNO: Wide IFGain:Low	#Atten: 30 dB	3	Mk	r1 777.000 MHz -29.73 dBm	Auto Tune
20.0 10.0							Center Freq 777.000000 MHz
-10.0 -20.0 -30.0			!	~~~		-10.00 x0x	Start Freq 776.000000 MHz
-40.0 -60.0							Stop Freq 778.000000 MHz
Start 776 #Res BW	51 kHz	#VBW	150 kHz		Sweep 1	Stop 778.000 MHz .000 ms (1001 pts)	CF Step 200.000 kHz Auto Man
N         1           1         N         1           2         3         4           5         6         7           6         7         8           9         10         11           1         1         1		77.000 MHz	v -29,73 dBm	PUNCTION	FUNCTION WIDTH		Freq Offset 0 Hz
MSG					STATU	s	r



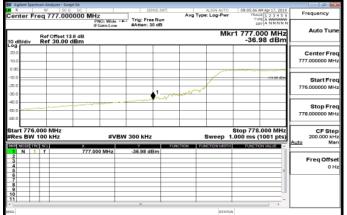
#### LTE\Band13 10MHz QPSK 1 0 LowCH23230-782

Agilent Spectrum Analyzer - Swept SA			
Center Freq 777.000000		Avg Type: Log-Pwr TRA	AM Apr 17, 2019 CE 1 2 3 4 5 6 Frequency
Ref Offset 13.5 dB 10 dB/div Ref 30.00 dBm	PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 777.0	000 MHz 01 dBm
20.0 10.0			Center Freq 777.000000 MHz
-10.0			Start Freq 776.000000 MHz
40.0 60.0 60.0			Stop Freq 778.000000 MHz
Start 776.000 MHz #Res BW 100 kHz	#VBW 300 kHz	Sweep 1.000 ms	CF Step 200.000 kHz Auto Man
N         1         f         77           3         -         -         -         -           4         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	7.000 MHz -22.01 dBm		Freq Offset
11			*

#### LTE\Band13_10MHz_QPSK_1_49_HighCH23230-782



#### LTE\Band13_10MHz_QPSK_50_0_LowCH23230-782



#### LTE\Band13 10MHz QPSK 50 0 HighCH23230-782

	trum A	nalyzer - Swej									
Center F	req 1	50 £ 787.000	0000 MHz	:		ISE:INT	Avg	ALIGN AUT Type: Log-Pv	TR.	AM Apr 17, 2019 ACE 1 2 3 4 5 6	Frequency
10 dB/div		Offset 13	iFC	O: Wide Jain:Low		0 dB		M	kr1 787.	000 MHz .38 dBm	Auto Tune
20.0 10.0											Center Freq 787.000000 MHz
-10.0 -20.0 -30.0				an de	han the second	1				-10:00 xDm	Start Freq 786.000000 MHz
-40.0 -50.0 -60.0											Stop Freq 788.000000 MHz
Start 786. #Res BW	100	kHz	×	#V	BW 300 kHz		INCIGN	Sweep	1.000 ms	8.000 MHz (1001 pts)	CF Step 200.000 kHz Auto Man
1 N 1 2 3 4 5 6 7 7 8 9 9 10 11	1		787.000	) MHz	-33,38 di						Freq Offset 0 Hz
MSG								STA	rus		r

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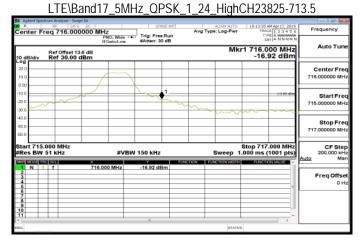
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### LTE\Band17_5MHz_QPSK_1_0_LowCH23755-706.5

🌉 Agilent Spi	ectrum Analyzer - Swept SA						
Center F	Freg 704.00000		SENSE:1		ALIGN AUTO	10:09:09 AM Apr 17, 20 TRACE 1 2 3 4	5.6 Frequency
10 dB/div	Ref Offset 13.6 c	PNO: Wide ↔ IFGain:Low	#Atten: 30 dB		Mk	1 704.000 MH -16.72 dB	Z Auto Tune
20.0 10.0							Center Freq 704.000000 MHz
-10.0			¹			-10:00	Start Freq 703.000000 MHz
-40.0 -50.0 -60.0							Stop Freq 705.000000 MHz
Start 703 #Res BW		#VBV	V 150 kHz	FUNCTION F	Sweep 1	Stop 705.000 Mi .000 ms (1001 pt	
		704.000 MHz	-16,72 dBm			TONE BOTT VIEDS	Freq Offset 0 Hz
9 10 11			78		STATUS	•	•



# LTE\Band17 5MHz QPSK 25 0 LowCH23755-706.5

M Agilent Spectrum Analyzer - Swept SA			
Center Freq 704.000000 M	MHz PNO: Wide and Trig: Free Run	ALIGN AUTO 10:09:59 AM Apr 17, 2019 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	PNO: Wide ++++ Trig: Free Run IFGein:Low #Atten: 30 dB	Mkr1 704.000 MHz -29.16 dBm	Auto Tune
20.0 10.0			Center Freq 704.000000 MHz
-10.0			Start Freq 703.000000 MHz
-40.0			Stop Freq 705.000000 MHz
Start 703.000 MHz #Res BW 51 kHz	#VBW 150 kHz	Stop 705.000 MHz Sweep 1.000 ms (1001 pts)	CF Step 200.000 kHz Auto Man
A         I         I         I         T         704           3         1         1         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704         704<	4.000 MHz 29.16 dBm		Freq Offset 0 Hz
мза		STATUS	

#### LTE\Band17_5MHz_QPSK_25_0_HighCH23825-713.5

R	trum Analyzer - Swept SA RF 50 Ω DA reg 716.00000	0 MHz	SENSE 1	Avg	ALIGN AUTO Type: Log-Pwr	10:14:27 AM Apr 17, 20: TRACE 1 2 3 4 5 TYPE A WWWW	6 Frequency
10 dB/div	Ref Offset 13.6 d Ref 30.00 dBr		Mk	IN			
20.0 10.0							Center Fr 716.000000 M
20.0						-49:00:00	* Start Fr 715.000000 M
40.0 50.0 50.0							Stop Fr 717.000000 N
Res BW	C SCL	×	W 150 kHz	FUNCTION	Sweep 1	Stop 717.000 MH .000 ms (1001 pts	
1 N 1 2 3 4 5 6 7 8 9 10		716.000 MHz	-28.30 dBm				Freq Offs 0
99					STATU	•	*

#### LTE\Band17_10MHz_QPSK_1_0_LowCH23780-709



### LTE\Band17_10MHz_QPSK_1_49_HighCH23800-711

🌉 Agilent Sper	trum Ani	ilyzer - Swep	t SA								
Center F	req 7	50 Q 16.000	000 MHz			NSE:INT	Avg	ALIGN AUTO Type: Log-Pw	TRA	AM Apr 17, 2019 CE 1 2 3 4 5 6 PE A WWWW	Frequency
10 dB/div	Ref (	Offset 13. 30.00 d	iFC 6 dB	iO:Wide Sain:Low	#Atten: 3	0 dB		М	⊳ kr1 716.0	et A NNNN N	Auto Tune
20.0 10.0			~								Center Freq 716.000000 MHz
-10.0	w			hory	hann	1	m	~~~~~		-19:00 (De	Start Freq 715.000000 MHz
-40.0 -50.0 -60.0									Marine -	Jung	Stop Freq 717.000000 MHz
Start 715 #Res BW	100		×	#VB	W 300 kHz	FI	MCTION	Sweep	1.000 ms (	.000 MHz (1001 pts)	CF Step 200.000 kHz Auto Man
1 N 1 2 3 4 5 6 7 8 9 9			716.000	0 MHz	-17.17 di						Freq Offset 0 Hz
11 • •					11			STAT	rus	•	

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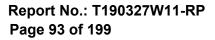
#### LTE\Band17_10MHz_QPSK_50_0_LowCH23780-709

🌉 Agilent Spe	ctrum Analyze									
Contor F	16F	50 9 DC	la la	SENS	E:INT	Aug Tup	ALIGN AUTO e: Log-Pwr	09:50:12 A	M Apr 17, 2019	Frequency
Center P	red 704		⊓Z PNO:Wide ↔ IFGain:Low	#Atten: 30	Run dB	010190		D		Auto Tune
10 dB/div	Ref Offs Ref 30	et 13.6 dB .00 dBm					MK		00 MHz 22 dBm	
20.0										Center Freq
0.00										704.000000 MHz
-10.0									-10.00 (Dr)	Start Freq
-20.0					1	word				703.000000 MHz
40.0					~					Stop Free
-60.0										705.000000 MH;
Start 703 #Res BW			#VB\	V 300 kHz			Sweep 1	Stop 705 .000 ms (	.000 MHz 1001 pts)	CF Step 200.000 kH: Auto Mar
	NC SCL	× 704.0	000 MHz	-35.22 dB		TION FU	NCTION WIDTH	FUNCTO	N VALUE	<u>Auto</u> Mar
2 3 4										Freq Offset 0 Hz
5 6 7									1	
8 9 10										
11				181						
* L				11			STATU			

#### LTE\Band17_10MHz_QPSK_50_0_HighCH23800-711

🌉 Agilent Spec	trum Analyzer - Swep								
Center Fi	req 716.000	000 MHz		NSE:INT		ALIGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 (	IFGain:1	ide +++- Trig: Fre ow #Atten: 3			Mkr	1 716.0	00 MHz 88 dBm	Auto Tune
20.0 10.0									Center Freq 716.000000 MHz
-10.0 -20.0 -30.0		W	mon	1				-10.00 (Din	Start Freq 715.000000 MHz
-40.0 -50.0 -60.0					~~~~~~				Stop Freq 717.000000 MHz
Start 715. #Res BW	100 kHz	×	¢VBW 300 kHz			Sweep 1.		1001 pts)	CF Step 200.000 kHz Auto Man
1 N 1 2 3 4 5 6 6 7 7 8 9 10 11		716.000 MH	z -32.88 di	3m					Freq Offset 0 Hz
* (							1	· ·	
MSG						STATUS			

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#### Out of Band Emission

30MHz~3GHz_WCDMA_B2_LowCH9262-1852.4

📕 Agilent Spectrum Analyzer - Sw					
Center Freg 1.5150		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:55:45 PM Apr 16, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 1	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Mk	r1 1.853 6 GHz	Auto Tune
10 dB/div Ref 30.00	dBm		•1	21.60 dBm	
20.0					Center Freq 1.515000000 GHz
-10.0				-10.00 slDm	Start Freq 30.000000 MHz
-30.0 -40.0 -50.0	and the second	a Baadhall do Chaol na an A ^{an} n		agaghaisyahisiga astrongga ast	Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBV	/ 1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MH: Auto Mar
1 N 1 f 2 3 4 5 6	1.853 6 GHz	21.60 dBm			Freq Offset 0 Hz
7 8 9 10 11					
M9G			STATUS	5	

M Agilent S		inalyzer - Swept									
Center	Freq		00000 G	Hz		NSE:INT	Avg	ALIGN AUT	TR.	ACE 1 2 3 4 5 6	Frequency
10 dB/div		f Offset 13. f 30.00 d	9 dB	O: Fast G ain:Low	#Atten: 3				Mkr1 19.	065 GHz	Auto Tun
20.0 10.0											Center Fre 11.500000000 GH
-10.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									Start Fre 3.000000000 GH
-40.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									Stop Fre 20.000000000 GF
Start 3. #Res B	W 1.0	MHz	*	#VB	₩ 1.0 MHz			Sweep	28.33 ms	0.000 GHz (1001 pts)	CF Ste 1.700000000 GF Auto Ma
1 N 2 3 4 5 6 7 8	1 1		19.065	GHz	-30,85 dF						Freq Offs
9 10 11					111			STA	Tus		

3GHz~10GHz_WCDMA_B2_LowCH9262-1852.4

#### 30MHz~3GHz_WCDMA_B2_MidCH9400-1880

	Hent S	pecou	atti Ma	ieryzer																				
Cen	nter	Fre	Pr 1	1.51	50 0		GH	z		٦	a: Free	V5E:11			Avg T		LIGN /		03	TRAC	M Apr 1	450		Frequency
10 d	B/div			Offs 30			PN	O: Fa ain:L	at ⊂, ow	#At	g: Free tten: 3	0 dB						Mł	( <b>r1</b> 1	.88	0 3 C	SHz	ı	Auto Tune
20.0 10.0 0.00															1									Center Free 1.515000000 GH:
-10.0 -20.0 -30.0																						00 +Dw		Start Free 30.000000 MH
-40.0 -50.0 -60.0	-	or a large state of the state o	-	la de la de			~		يەر مەرامىي ر						heler									Stop Free 3.000000000 GH:
	s Bl	N 1	.0 1			x	_	_			MHz		FUN	спо	N	_			.000	mis (	.000 1001	pts)	11	CF Step 297.000000 MH: uto Mar
1 2 3 4 5 6 7 8 9 10 11	N	1	1			1.8	180 3	GH			2.06 dE	3m												Freq Offse 0 H
MSG																		STATU	s					

#### 3GHz~10GHz_WCDMA_B2_MidCH9400-1880

M Agilent Spectrum Analyzer - Swept SA			
Center Freq 11.50000000	0 GHz	ALIGN AUTO 03:57:25 PM Apr16, 2015 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.9 dB	PNO: Fast Drig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 19.218 GHz -30.46 dBm	Auto Tune
20.0 10.0			Center Freq 11.50000000 GHz
-10.0		1930 IBN 1	Start Freq 3.00000000 GHz
-40.0 -50.0 -60.0			Stop Freq 20.00000000 GHz
Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	CF Step 1.700000000 GHz Auto Man
N         1         f         11           2         3         3         3         3           4         5         5         5         5           6         7         7         8         9         9	9.218 GHz -30.46 dBm		Freq Offset 0 Hz
10 11 *		status +	

#### 30MHz~3GHz_WCDMA_B2_HighCH9538-1907.6

	trum Analyzer - Swept SA					
Center Fr	req 1.5150000	00 GHz	Trig: Free Run	ALIGN AU Avg Type: Log-Pr	WF TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 13.9 d Ref 30.00 dBr		#Atten: 30 dB		Mkr1 1.910 0 GHz 21.99 dBm	Auto Tune
20.0 10.0				<b>●</b> 1		Center Fred 1.515000000 GH;
-10.0					-10.00 (Dr)	Start Free 30.000000 MH
-40.0 -50.0 -60.0				na n		Stop Fre 3.000000000 GH
Start 30 N #Res BW	1.0 MHz	#VBW	/ 1.0 MHz	Sweep	Stop 3.000 GHz 2.000 ms (1001 pts)	CF Stej 297.000000 MH <u>Auto</u> Ma
1 N 1 2 3 4 5 6 7	1	1.910 0 GHz	21.99 dBm			Freq Offse 0 H
8 9 10 11			79		+	

#### 3GHz~10GHz_WCDMA_B2_HighCH9538-1907.6

🌉 Agilent Sper	ctrum Ana		t SA								- 4 <b>-</b>
Center F	req 1	50 Q 1.5000	00000 G	Hz O: Fast 0		NSE:INT	Avg 1	ALIGN AUTO Type: Log-Pwr	TRA	PM Apr 16, 2019	Frequency
10 dB/div		offset 13. 30.00 d	9 dB	KD: Fast C Gain:Low	#Atten:			м	kr1 19.2	69 GHz 83 dBm	Auto Tune
20.0 10.0											Center Freq 11.50000000 GHz
-10.0					La free of the second				بالمعالمين ف	-10:00 HDW	Start Freq 3.000000000 GHz
-40.0 -50.0 -60.0											Stop Freq 20.000000000 GHz
Start 3.00 #Res BW	1.0 M		×	#VB	W 1.0 MH2			Sweep 2	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 2 3 4 5 6 7 8 9 10 11			19.26	9 GHz	-30,83 d			FORCE IS A FORCE		· · ·	Freq Offset 0 Hz
MSG								STATU	5		

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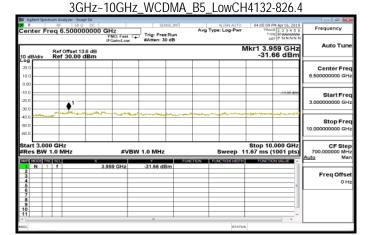
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# Report No.: T190327W11-RP Page 94 of 199

#### 30MHz~3GHz_WCDMA_B5_LowCH4132-826.4

🌉 Agilent Spectrum Analy									
Center Freq 1.	50 0 DC	z	Trig: Free F		Avg Type	LIGN AUTO	TRAC	PM Apr 16, 2019	Frequency
10 dB/div Ref 3	Pi IFC ffset 13.6 dB 30.00 dBm	¥O:Fast ⊆ ain:Low	#Atten: 30 d			Mk	r3 2.47	9 2 GHz 80 dBm	Auto Tune
20.0 10.0	\ 								Center Freq 1.515000000 GHz
-10.0				<u>∧</u> 2			<b>→</b> ³	-10:00 (Din	Start Freq 30.000000 MHz
-40.0				<u>and to see</u>	<u>ha na na</u>	ng Alian an An	in the second second		Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 Mi	×		1.0 MHz		TION FUN	<u> </u>	.000 ms (	.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2 N 1 f 4 5 6 7	828. 1.652 2.479	9 MHz 8 GHz 2 GHz	19.03 dBn -38.37 dBn -36.80 dBn	1					Freq Offset 0 Hz
8 9 10 11 *			78			STATUS	1		



#### 30MHz~3GHz WCDMA B5 MidCH4183-836.6

M Agilent Spectrum Analyzer - Swept SA					
Center Freg 1.515000000	GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	04:05:49 PM Apr 16, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Mk	r3 2.509 8 GHz -34.79 dBm	Auto Tune
20.0 10.0	<u>)</u> 1				Center Freq 1.515000000 GHz
-10.0				-1000 HDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	( <u>) </u>	un tolen dagen so <b>r</b> re nyed helder			Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz MORE MORE PAL			Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz <u>Auto</u> Man
2 N 1 f 14 N 1 f 24 5 8 8 9 9 9	837.8 MHz 73.2 GHz 09.8 GHz	19.83 dBm -38.72 dBm -34.79 dBm			Freq Offset 0 Hz
MSG			STATUS	1	

#### 3GHz~10GHz WCDMA B5 MidCH4183-836.6

									am Analyzer	ent Spectre	Í Ag≹
Frequency	M Apr 16, 2019	TRAC	ALIGN AUTO e: Log-Pwr	Avg Ty	NSE: INT			000000	eq 6.50	er Fre	
Auto Tun	PNNNNN	Mkr1 3.9	N		0 dB	#Atten: 3	PNO:Fast ⊑ FGain:Low		Ref Offs Ref 30		0 dB
Center Fre 6.50000000 GH											og 20.0 10.0
Start Fre 3.000000000 GH	-10 (0 (Dn								•		10.0 20.0 30.0
Stop Fre 10.000000000 GH				- Seard again to	and the second sec	9,,		and see a second		h.m. _{bab}	40.0 50.0 60.0
CF Ste 700.000000 MH Auto Ma	.000 GHz 1001 pts)	11.67 ms (	Sweep 1	CTION F	FU	1.0 MHz	#VBV	×	.0 MHz	ODE THE	Res
Freq Offse 0 H	่				3m	-32.81 di	31 GHz	3	1	N 1	1 2 3 4 5 6
											7
	=										8 9 10

#### 30MHz~3GHz_WCDMA_B5_HighCH4233-846.6

🚛 Agilent Spec	trum Analyzer - Sv					
Center F	req 1.5150	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	04:06:51 PN Apr16, 2019 TRACE 1 2 3 4 5 6 Type M	Frequency
10 dB/div	Ref Offset 1 Ref 30.00		#Atten: 30 dB	MF	r3 2.539 8 GHz -36.57 dBm	
20.0 10.0						Center Freq 1.515000000 GHz
-10.0					-1000 1004	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0			ar na se		an at the second and a second	Stop Freq 3.00000000 GHz
Start 30 M #Res BW	1.0 MHz	#VB	W 1.0 MHz	·	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
Autore         Autore<		X 846.8 MHz 1.693 2 GHz 2.639 8 GHz		PUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
* SG				STATU	5	

#### 3GHz~10GHz_WCDMA_B5_HighCH4233-846.6

Avg Type: Log-Per         Thick [2:3:4:3:4]         Frequency           Bit Carter Freq 6.500000000 GHz Bit Carter Low         Trig: Free Run Bit Carter Low         Avg Type: Log-Per         Thick [2:3:4:3:4]         Frequency           Avg Type: Log-Per         Thick [2:3:4:3:4]         Avg Type: Log-Per         Thick [2:3:4:3:4]         Auto Tune           In deliver         Ref Office 13:5:6:8         Mkr14.820 GHz         Auto Tune         Auto Tune           0 deliver         Ref Office 13:5:6:8         October 13:6:6:8         Start Freq 6:5:0000000 GHz         Center Freq 6:5:0000000 GHz           0 deliver         Image 11:6:1:8:1:8:1:8:1:8:1:8:1:8:1:8:1:8:1:8			alyzer - Swep	t SA									- 4
Certor Markine         Auto Tune           10 didididiv         Ref Ones 13.6 dB         Mkr1 4.820 GHz           300         -32.79 dBm         -32.79 dBm           300         -310         -300 dBm           000         -300 dBm         -32.79 dBm           300         -310 dBm         -32.79 dBm           300         -310 dBm         -300 dBm <tr< td=""><td>Center Fi</td><td>req6</td><td>50 S</td><td>0000 GH</td><td>z</td><td></td><td></td><td>Avg</td><td></td><td></td><td>TRAC</td><td>E123456</td><td>Frequency</td></tr<>	Center Fi	req6	50 S	0000 GH	z			Avg			TRAC	E123456	Frequency
300         300         Center Freq           300	10 dB/div			6 dB	O: Fast Jain:Low	#Atten:	30 dB			N	¤ 1kr1 4.8	20 GHz	Auto Tune
100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100     100 <td>20.0</td> <td></td>	20.0												
Stop Freq         Stop Freq <t< td=""><td>-10.0</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-10.0			1									
RRes BW 1.0 MHz         #VDW 1.0 MHz         Sweep 11.67 ms (1001 pts)         700.0000 MHz           1         1         1         1         1         700.0000 MHz         Man           1         1         1         1         1         1         1         700.0000 MHz         Man           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 <td< td=""><td>-40.0</td><td></td><td></td><td>And and a second</td><td>-</td><td></td><td></td><td>******</td><td>-A</td><td></td><td>9.50^{.63}09.64.05</td><td>Allen on the second second</td><td></td></td<>	-40.0			And and a second	-			******	-A		9.50 ^{.63} 09.64.05	Allen on the second	
N         1         f         4.820 GHz         -32.79 dBm           2         1         1         f         4.820 GHz         -32.79 dBm           4         6         1         1         0         1         Freq Offset           5         6         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 </td <td>#Res BW</td> <td>1.0 N</td> <td></td> <td></td> <td>#VE</td> <td>W 1.0 MH</td> <td></td> <td>MCTRON</td> <td></td> <td><u> </u></td> <td>1.67 ms (</td> <td>1001 pts)</td> <td>700.000000 MHz</td>	#Res BW	1.0 N			#VE	W 1.0 MH		MCTRON		<u> </u>	1.67 ms (	1001 pts)	700.000000 MHz
					0 GHz								

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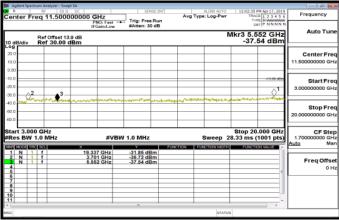
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### 30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7

🌉 Ag	ilent S	pectr	um Ai	nalyzer - Sv		4										
Cen	ter	Fre	}q `	50 1.5150		× 000 G	Hz PNO: Fat		1	SENSE:		Avg	LIGN AUTO	TRA	PN Apr 17, 2019 CE 1 2 3 4 5 6	Frequency
10 di	Didis			Offset		dB.	PNO: Fa FGain:Lo		#Atten:	30 dE	3		 M	(r1 1.85	0 6 GHz	Auto Tun
20.0 10.0		_		00.00								1				Center Fre 1.515000000 GH
-10.0 -20.0 -30.0	_				+		-			+					-10.00 (Din	Start Fre 30.000000 MH
-40.0 -50.0 -60.0	a ng ben	ligera	****	, and the second second	<b>Na</b> 1				*****		لى مەروپلىرىنىڭ مەروپلىرىنىڭ	-loso	 addahana	-ro-t-solorfy	and the proved	Stop Fre 3.000000000 GH
Star #Re	s B\	W 1	.01			×			1.0 MH		FUN	TION	 Sweep 2	.000 ms	3.000 GHz (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 2 3 4 5 6	N	1	1			1.850	) 6 GH2	z	25.39	dBm					▦.	Freq Offse 0 H
6 7 8 9 10 11																
MSG													STATU	s		

# 3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



# 30MHz~3GHz Band2 1 4MHz QPSK 1 0 MidCH18900-1880

	ectrum Ani	ilyzer - Swept										
Center F	req 1	50 Q	0000 GH	Z O:Fast +		NSE:INT	A		ALIGN AUTO	TRA	PM Apr 17, 2019	Frequency
10 dB/div	Ref (	offset 13. 30.00 d	iFG 9 dB	O: Fast ⊷ ain:Low	#Atten: 3				м	kr1 1.88	0 3 GHz 84 dBm	Auto Tune
20.0 10.0												Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0											-19.00 (Din	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		Constant of the	ېلومېد (ماروموگېار				and the	-duinite	e-gale-toer	ميدانية مر شكين . رو هي 		Stop Freq 3.000000000 GHz
Start 30 #Res BW	1.0 1	Hz	×		W 1.0 MHz	F	UNCTION	_	Sweep	2.000 ms (	.000 GHz 1001 pts)	CF Step 297.000000 MHz <u>Auto</u> Man
1 N 2 3 4 5 6 7 7 8 9 10	1 1		1.880 3	3 GHz	23.84 d	Bm					_	Freq Offset 0 Hz
9 10 11 *					18				STAT	us	, ·	

#### 3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880

🌉 Agilent Spectru	um Analyzer - Swept Si						
Center Fre	eq 11.50000	0000 GHz	SENSE:1	Avg Type	ALIGN AUTO e: Log-Pwr	12:05:03 PM Apr 17, 201 TRACE 1 2 3 4 5	Frequency
	Ref Offset 13.9	PNO: Fast IFGain:Low	≓ Trig: Free Ru #Atten: 30 dB		N	THE N NNN DET P NNNN Akr3 5.640 GHz -38.16 dBm	Auto Tune
20.0 10.0	Ref 30.00 dB	m				-38.16 dBm	Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0	0 ¹ _3					-10.00 (Dir	Start Freq 3.000000000 GHz
-40.0 -50.0 -60.0		and the management of the second s	pertakan distantikan yang	ور موارو میلود	and the management of	an a	Stop Freq 20.000000000 GHz
Start 3.000 #Res BW 1	.0 MHz	#VBV	V 1.0 MHz		<u> </u>	Stop 20.000 GHz 8.33 ms (1001 pts)	
NOR         NOR         N         1           1         N         1         1         1           2         N         1         1         1           3         N         1         1         1           4         5         6         7         1           6         7         9         10         1		x 4.700 GHz 3.760 GHz 6.640 GHz	-30.62 dBm -34.66 dBm -38.16 dBm	PUNCTION PUT	N- TON WOTH	FUNETEN VALUE	Freq Offset 0 Hz
11							
MSG					STATUS	5	

# 30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

🛤 Agilent Spe	ctrum Analyzer - Si						
Center F	req 1.5150	000000 GHz	Trig: Free R	Avg	ALIGN AUTO Type: Log-Pwr	12:06:37 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset Ref 30.00				Mk	r1 1.910 0 GHz 25.38 dBm	Auto Tune
20.0 10.0				1			Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0						-10 10 iDe	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0			¹ 4 ¹ -9-12-14 ¹ -14 ¹	un and a second s	eggenet of shakes and		Stop Freq 3.00000000 GHz
Start 30   #Res BW	1.0 MHz	#	VBW 1.0 MHz	FUNCTION	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 7 8 9 10 11		1,910 0 GH;	z 25.38 dBm				Freq Offset 0 Hz
MSG					STATUS		

#### 3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

🌉 Agilent Spe	ctrum Ani	ilyzer - Swepi	t SA								
Center F	req 1	50 Ω 1.5000	∞ 00000 G	Hz		NSE:INT		ALIGN AUTO E: Log-Pwr	TRAC	M Apr 17, 2019	
10 dB/div		Offset 13: 30.00 d	9 dB	iO:Fast ↔ lain:Low	#Atten: 3			1	/kr3 5.7	PNNNN	Auto Tune
20.0 10.0											Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0	2									-10:00 (Em	Start Freq 3.000000000 GHz
-40.0 -60.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	puluption of a constraint of the second s	7840B-910LB	ellandur um dal	6.9945-96-9.984	the state of the second	al house of house of			Stop Freq 20.00000000 GHz
Start 3.0 #Res BW	1.0 N		×	#VB\	V 1.0 MHz			Sweep 2	8.33 ms (		CF Step 1.700000000 GHz Auto Man
1 N 2 N 3 N 4 5 6 7 8 9			18.21 3.81 5.72	5 GHz 9 GHz 8 GHz	-31.23 df -34.68 df -36.60 df	3m					Freq Offset 0 Hz
7 8 9 10 11											
MSG								STATU	s		

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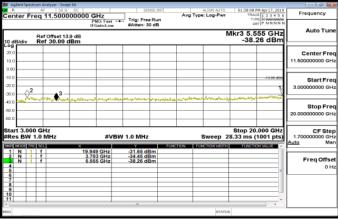
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### 30MHz~3GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

🌉 Agil	ent Spectr		nalyzer - Swe														
Cent	er Fre	ea '	50 £	00000	GHz		1	NSE:1		Avg		ALIGN AUTO		01:37:47 TRA	1 2 2 4	5.6	Frequency
					PNO: Far IFGain:Lo	st ⊶⊷ owr	#Atten: 3					N	lkr1	1.85			Auto Tuno
10 dB	Vdiv		Offset 13 30.00												81 dE		
20.0										<b>Y</b> 1							Center Freq
10.0		$\rightarrow$			_			-					+			_	1.515000000 GHz
0.00		-		-	-			-					+			-	
-10.0		-		+	-	_		-					+		-10.00	101	Start Freq
-20.0		+		-	-								+				30.000000 MHz
-30.0					-					luce		and the second	الد المعالي	and the set	and walk		
-50.0	and a start of the		and a start of the	Portante													Stop Freq
-60.0		_			_			-		<u> </u>			_			_	3.00000000 GHz
Start	30 M	Hz												Stop 3	.000 G	Hz	CF Step
	BW 1		ΛHz		#	VBW	1.0 MHz				1	Sweep	2.0	00 ms (	1001 p	ts)	297.000000 MHz
	N 1	SCL		×	50 6 GH2		23.81 d	2.00	FUN	TION	FUN	CTION WD1	н	FUNCT	ON VALUE	•	Auto Man
2		Ľ		1.0	0000011		20.01 0						-			1	Freq Offset
4	-					+					-		+			-11	0 Hz
6	-					+		-			1		+			-1	
8	-					-							-			-	
10						-		_					-			- 1	
- i							181						1			1	
MSG												STAT	rus				

### 3GHz~10GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



# 30MHz~3GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880

M Agilent Spectrum Analyzer - Swept SA			
Center Freq 1.515000000	) GHz PMC: East and Trig: Free Run	ALIGN AUTO 01:40:55 PN Apr 17, 2019 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.9 dB 10 dB/div Ref 30.00 dBm	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 1.880 3 GHz 23.65 dBm	Auto Tune
20.0 10.0 0.00			Center Freq 1.515000000 GHz
-10.0			Start Freq 30.000000 MHz
-40.0	(۱۹۹۹) میکند بین این میتواند اور میتواند اور وی وی اور میتورد) المارا (۱۹۹۵) میکند بین این میتواند اور میتورد)	and a second secon	Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz		Stop 3.000 GHz Sweep 2.000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
N         1         Г         1           3         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -			Freq Offset 0 Hz
MSG		STATUS	

#### 3GHz~10GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880

					_							
									nalyzer - Swep		pilent S	A M
Frequency	8 PM Apr 17, 2019	01:41:08	LOG-PWF		NSE:1NT	SEI		DC	50 <u>Ω</u>	R		R
riequency	AGE 1 2 3 4 5 6		: Log-Pwr	Avg Type	Run	Trig: Fre	Hz	00000 G	11.5000	Freq	ter	Cer
	DET P NNNNN	D			0 dB	#Atten: 3	O: Fast -	PI				
Auto Tun					000	arteen. o	ann.cow	10				_
- Auto Full	640 GHz		N					9 dB	Offset 13	Ref		
	.62 dBm	-36.							30.00 c		B/div	10 d
												Log
Center Fre										-	-	20.0
11.50000000 GH												10.0
11,000000000												
					-						-	0.00
Start Fre	-10.00 (Dr)				-						L	-10.0
												-20.0
3.000000000 GH									<b>A</b> 3	^ <b>2</b>		
L	and the second second	1 August			-				€ ³ -	<u>}</u>	$\rightarrow$	-30.0
		and an address	man with the second	"The second	-01-04	marthme	and the	a rater	mannen	Kennengan	mal	-40.0
Stop Fre	· ·										I 1	
20.000000000 GH												-50.0
					<u> </u>						⊢	-60.0
CF Ste	0.000 GHz	Stop 20								000 GI		
1.700000000 GH	(1001 pts)	8.33 ms (	Sweep 2	1		1.0 MHz	#VB		VIHz	N 1.0	s Bl	#Re
Auto Ma	TION VALUE	0.000	CTION WOTH	7999		~	_	×	-	THC SC	1000	12201
	The second second	P Gree F		1 1.11	3m	-31.33 dl	GHz	19.28		1 (	N	1
					3m	-35.89 di	0 GHz	3.76		1 1	N	2
Freq Offse					3m	-36.62 di	0 GHz	5.64		1 1	N	3
01					_						-	4
										-	-	6
												7
												8
											-	9
									-	-	-	11
												4
t			STATUS									MSG

#### 30MHz~3GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5

	ctrum A	nalyzer - Swep										
Center F	req	50 D	0000 GH	z		ISE:INT	Avg		IGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 dB/div		Offset 13	9 dB	Ю:Fast ⊷ Jain:Low	#Atten: 3	0 dB			Mk	r1 1.91		Auto Tune
20.0 10.0							×1					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0											-10.00 iDn	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0				nê dişm <del>ala</del> cişişê	****				fer Miles för sinn i	a	Nobered and the	Stop Freq 3.000000000 GHz
Start 30 #Res BW	1.0		×	#VB	W 1.0 MHz	FU	ACTION		veep 2	.000 ms (	<u> </u>	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 8 9 9 10 11			1,910 (	0 GHz	25.92 dt							Freq Offset 0 Hz
	-							-			· ·	
MSG									STATUS	5		

#### 3GHz~10GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5

	trum An	alyzer - Swep									
Center F	⊮ req1	1.5000				ISE:INT		ALIGN AUTO	TRAC	Apr 17, 2019	Frequency
10 dB/div		Offset 13 30.00 c	9 dB	¥O: Fast ↔ Sain:Low	#Atten: 3	0 dB		1	/kr3 5.7	26 GHz 60 dBm	Auto Tune
20.0 10.0											Center Freq 11.500000000 GHz
-10.0	2	<b>♦</b> ³			وسيلجد ومعاوره		4.444.8				Start Freq 3.000000000 GHz
-40.0				Contraction of the local distribution of the		(Provedne) (Juliowy)					Stop Freq 20.00000000 GHz
Start 3.00 #Res BW	1.0 N		×	#VBV	V 1.0 MHz		TION FUE	<u> </u>	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6 7 8 9 9	1 1 1		19.18 3.81	4 GHz 7 GHz 6 GHz	-31.80 dE -36.10 dE -37.60 dE	3m 3m					Freq Offset 0 Hz
10 11 1								STATU	5	•	

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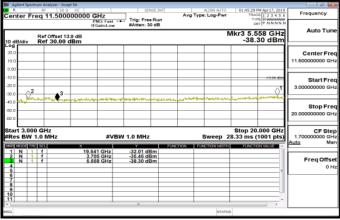
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### 30MHz~3GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

🌉 Ag	ilent :	Spec			zer - Si																				_		
Cen	ter	Fr	ea.		50 5150	000	0 G	Hz	_		1		NSE:1		A	vg T		LOG-F		0	1:45:16 TRA	OF 1	224	5.6	Г	Frequency	1
10 di	Didi				Tset				: Fast in:Los	t ++		g: Frei ten: 3							Mł	(r1	1.85	0 6	GH	١z		Auto T	une
20.0 10.0					0.00																			_		Center F 1.515000000	
-10.0 -20.0 -30.0																							10:00 (	_		Start F 30.000000	
-40.0 -50.0 -60.0			K-rv	<b>.</b>	Golof	 	-	*		l-leng		****			-	-43.04	-14-1 	li terrere de	h-n-e		-b-obj-		la la naj	- 1.4	4	Stop F 3.000000000	
Star #Re	s B	w	1.0	Мŀ	Iz				#\	/BW	1.0	MHz	_			_		wee		.000	top : ms	(100	1 pt	lz (s)	Au	CF S 297.000000 to	
1 2 3 4 5 6 7 8 9 10 11						× .	1.850	060	GHz.			22 di	Bm	10			F UNA		1DTH		FUNCT					Freq Of	ffset 0 Hz
MSG																		5	TATU	s							

# 3GHz~10GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



# 30MHz~3GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880

🛤 Agilent Spec	ctrum Anal	yzer - Swept S									
Center F	req 1.		000 GH	z		NSE:INT	Avg	ALIGN AU Type: Log-P		37 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 0	ffset 13.9 30.00 dE	dB	Ю:Fast ← Jain:Low	#Atten: 3				Mkr1 1.8 2	B80 3 GHz 4.86 dBm	Auto Tune
20.0 10.0							×1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0		_								-10.00 tiDin	Start Freq 30.000000 MHz
-40.0			dathacented	*****			هيما ليدموني		- Contraction of the Contraction	1.04 00 00 00 00 00 00 00 00 00 00 00 00 0	Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0 M	Hz	×		W 1.0 MHz	F	INCTION	Sweep	2.000 m	p 3.000 GHz is (1001 pts)	CF Step 297.000000 MHz Auto Man
1         N         1           2         3         4           5         6         7           7         8         9           10         11         1           1         1         1			1.880 ;	3 GHz	24.86 dl	Bm					Freq Offset 0 Hz
MSG								51	ATUS		

#### 3GHz~10GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880

M Agilent Spectrum Analyzer - Swep					
CM R RF 50 Ω		SENSE:INT	ALIGN AUTO	01:46:51 PM Apr 17, 2019	Frequency
Center Freq 11.5000	000000 GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	riequeriey
	PNO: Fast	#Atten: 30 dB		DET P NNNNN	
				/kr3 5.640 GHz	Auto Tune
Ref Offset 13			n n		
10 dB/div Ref 30.00	dBm			-38.66 dBm	
20.0					
20.0					Center Fre
10.0					11.500000000 GH
0.00					
-10.0					
				-10.00 dDm	Start Fre
-20.0				~1	3.000000000 GH
30.0 A ² 3-				Q.	
40.0 my town the white	ورويعاد المساحية وسياري ورايي وس	بالمرجا والمرجا والمحاصر المحاصر والمحاج والمحا	and white many providence and	envirolence Helinineters	
					Stop Fre
-50.0					20.000000000 GH
-60.0					20.0000000000
Start 3.000 GHz				Stop 20.000 GHz	CF Ste
#Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2	8.33 ms (1001 pts)	1.700000000 GH
MKR MODE TRC SCL	X	V FLW	TION FUNCTION WOTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 f	19.405 GHz	-31.66 dBm			
2 N 1 f	3.760 GHz	-34.22 dBm			Freq Offse
3 N 1 f	6.640 GHz	-38.66 dBm			
5					0 H
6					
7					
8					
10					
11					
P.C.					
MSG			STATUS	4	

### 30MHz~3GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

🛤 Agilent Spe	ctrum Ar										- 4
Center F	⊮ req '	50 £	00000 GH	z		NSE:3NT	Avg	og-Pwr	TRAC	PM Apr 17, 2019	Frequency
10 dB/div		Offset 13 30.00	iFC 3.9 dB	Ю:Fast ⊷ Jain:Low	#Atten: 3	0 dB		 Mk	r1 1.90		Auto Tune
20.0 10.0							1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10.00 (De	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	J./A.,L	e-write per					-decoller	 مليميم	****		Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0		×	#VB	W 1.0 MHz		NCTION	veep 2	.000 ms (	. /	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 8 9 9 10 11			1,907	0 GHz	25.57 dl						Freq Offset 0 Hz
9 10 11 * [								STATUS	5		

#### 3GHz~10GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

	trum An	alyzer - Swep	t SA								
Center F	req 1	50 Q				ISE:INT		ALIGN AUTO E: Log-Pwr	TRAC	Apr 17, 2019	Frequency
10 dB/div		Offset 13 30.00 d	9 dB	Ю:Fast ↔ iain:Low	#Atten: 3			1	Akr3 5.7	23 GHz 19 dBm	Auto Tune
20.0 10.0											Center Freq 11.500000000 GHz
-10.0	2	♦3-			1		11.41.				Start Freq 3.000000000 GHz
-40.0		~~~~~	and a second	-and a group of the	40-29-90-90-90-	94944Y-494).	*****				Stop Freq 20.00000000 GHz
Start 3.00 #Res BW	1.0 N		×	#VBV	1.0 MHz		CTION FUI	<u> </u>	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz <u>Auto</u> Man
1 N 2 N 3 N 4 5 6 7 8 9 10 11 			19.37	1 GHz 5 GHz 3 GHz	-31.38 dE -36.80 dE -37.19 dE	3m 3m					Freq Offset 0 Hz
MSG								STATU	s		

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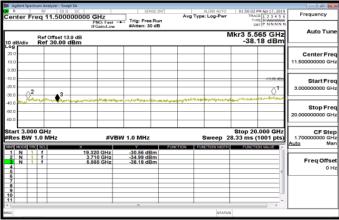
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#### 30MHz~3GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855

	ilent	Spe	ctru	mA	nah	zer -		4																											5
Cen	ter	r F	re	e d	1.:		0 0 00	× 00	0 0	зH	z	ant		],	da	Fre	NSE:				Avg	тур		GN AL			01:45	TRAC	1	234	5 6	L	Fre	equen	су
10 dE Log	B/d	iv				fise 10.0			_			Low			Atte	in: 3	0 dE	3			_		_		MI	(r1	1.1	35	3 6	GI	Hz			Auto	Tune
20.0 10.0		_	_		_		_	_			_									Y	1										_			ente	
-10.0 -20.0 -30.0		_	_		_		_	_			_																			10:00	_		30.	Star 00000	
-40.0 -50.0 -60.0	-		****	*	<i>.</i>	<i>.</i>	-	-		•		<i>k</i>	19191			~~~			, starts		-dina	er hi	<b>**</b>	-1.11	19					no ( no	~		3.000	Stop 00000	o Frec 10 GH
Star #Re:	s E	зw	1 1	.0	_	łz		2				#V	вW	1.0	0 N	1Hz			FIN		N		_	/ee	_	.00		is (	.00	)1 p	Hz ts)	4	297. uto	CF	O MH: Mar
1 2 3 4 5 6	N		1	1					1.85	53 6	G	Hz		2	24.5	i5 d	Bm			_			_		_			_					F	req (	Offse 0 Hi
7 8 9 10 11																																			
MSG																								5	тати	5									

#### 3GHz~10GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855



#### 30MHz~3GHz Band2 10MHz QPSK 1 0 MidCH18900-1880

M Agilent Spectrum Analyzer - S					
Center Freq 1.515	000000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	01:51:09 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 10 dB/div Ref 30.00	PNO: Fast IFGain:Low 13.9 dB 0 dBm		М	kr1 1.877 3 GHz 25.21 dBm	Auto Tune
20.0 10.0			×1		Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0				-10.00 (Em	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	and the second		- Angele and the state of the s	alaga ta	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	×		Sweep 2	Stop 3.000 GHz 2.000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1         1         f           2         3         -           3         -         -           4         -         -           6         -         -           7         -         -           8         -         -           10         -         -           11         -         -	1.877 3 GHz	25.21 dBm			Freq Offset 0 Hz
MSG			STATU	5	

#### Agrent spectra in the second ALIGN AUTO Avg Type: Log-Pw Freque Auto Tu Mkr3 5.640 GHz -38.20 dBm Ref Offset 13.9 Ref 30.00 dB Center Fre Start Fre $\Diamond$ <del>_2</del> ۲ Stop Fre Stop 20.000 28.33 ms (1001 CF Ste 3.000 GHz BW 1.0 MH #VBW 1.0 MH: Sween 4.322 GHz 3.760 GHz 5.640 GHz -31.68 dBm -36.19 dBm -38.20 dBm NN Freq Offs

#### 3GHz~10GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880

### 30MHz~3GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

📕 Agilent Spe	ctrum A	inalyzer - Swep									0 6
Center F	req	50 Q 1.51500	0000 GH	z		ISE:INT	Avg	ALIGN AUTO Type: Log-Pwi	TRA	PM Apr 17, 2019 CE 1 2 3 4 5 6 PE M WWWWW	Frequency
10 dB/div		f Offset 13	9 dB	iO:Fast ∺ ain:Low	#Atten: 3			м	kr1 1.90	et P NNNN N	Auto Tune
20.0 10.0							1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10.00 iDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	an de c	رد. دارور سادومین ا				annert konge	Acril Inc.	ut <u>ersong</u> anon		eleven las areas de	Stop Freq 3.000000000 GHz
Start 30   #Res BW	1.0		×	#VB	N 1.0 MHz	FLB	ICTION	Sweep	2.000 ms		CF Step 297.000000 MHz Auto Man
	1 1		1.901	1 GHz	25.41 dB						Freq Offset 0 Hz
MSG								STAT	us		

#### 3GHz~10GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

	ctrum A	inalyzer - Swe									
Center F	req	50 g 11.5000	000000 G	Hz		ISE:INT	Avg Type	ALIGN AUTO CLOG-PWF	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Re Re	f Offset 13	iFi 19 dB	NO: Fast H Sain:Low	#Atten: 3	0 dB			Mkr3 5.7	TP NNNN N	Auto Tune
20.0 10.0											Center Freq 11.500000000 GHz
-10.0	2	<b>♦</b> ³			Journation		n et ale.			-1000 eEm	Start Freq 3.00000000 GHz
-40.0						And Con- do Pi					Stop Freq 20.00000000 GHz
Start 3.00 #Res BW	1.0	MHz		#VB	N 1.0 MHz		CTION FUI	<u> </u>	28.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 2 N 3 N 4 5 6 7 8 9			3.81	6 GHz 0 GHz 5 GHz	-31,87 dF -35,33 dF -35,71 dF	3m 3m					Freq Offset 0 Hz
8 9 10 11 1					10			STATU	5		

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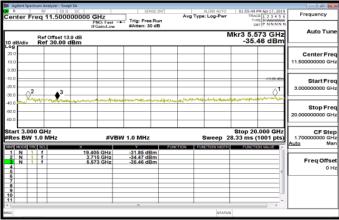
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### 30MHz~3GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

🛤 Ag	ilen	t Sp	ectru	um A	inal	yzer -			A,																							di - 🔁
Cen	nte	r I	Fre	® P€	1.		50 S		)) 00	0 G	Hz		at	],	ria:	SEN	SE:1			Av	д Тур		og-P		0	1:55:36 TRJ	OF	or 17,	15.6		Frequen	су
10 d	B/c	liv				ffse 30.0						): Fa iin:Li			Atte	n: 30	) dB			_			I	Mk	r1 '	1.85	3 (	* NNI	Hz	í	Auto	Tune
20.0 10.0 0.00	L .	_	_		_					_								_		1											Cente 1.5150000	
-10.0 -20.0 -30.0	E	_			_																			_				-49.66	_		Star 30.00000	t Freq 00 MHz
-40.0 -50.0 -60.0	~		Ara	~	1	م العر		<b>3</b> 1		- بواقع	-	- (14)	sire-		<u></u>	-	10 <b>00</b>		~~	/ Lau			1400		n Jung			irin/we	المنزرة		Stoj 3.0000000	o Freq 00 GHz
Star #Re	sl	BV	/ 1	.0	_	Hz			х			#	VBV	V 1.	0 M	Hz		FL	JNCT	ION	FL	_	<u> </u>		000	top : ms	(10	01 p	Hz ts)	A	297.00000	Step Man
1 2 3 4 5 6	N		1	1					1	1.85	36	GH;	2		24.9	3 dB	3m														Freq	Offset 0 Hz
7 8 9 10 11																																
MSG													-		181						-		ST	ATUS		-			,	L		

### 3GHz~10GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



# 30MHz~3GHz Band2 15MHz QPSK 1 0 MidCH18900-1880

	ctrum Analyzer - S									
Center F		000000 GH	łz NO:Fast ↔		NSE:INT	Avg	ALIGN AUTO Type: Log-Pwr	TRAC	# Apr 17, 2019 # 1 2 3 4 5 6 # M WWWWW	Frequency
10 dB/div	Ref Offset Ref 30.0	13.9 dB	NO: Fast Gain:Low	#Atten: 3	0 dB		м	kr1 1.874	PNNNNN	Auto Tune
20.0 10.0						×1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0									-10.00 iEm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	an al an				***************************************	هنك للبين			**************************************	Stop Freq 3.000000000 GHz
Start 30 P #Res BW	1.0 MHz	×		V 1.0 MHz		NCTION	Sweep 2	2.000 ms (	. /	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4 5 6 7 8 9 10		1.874	4 GHz	25.82 di	3m					Freq Offset 0 Hz
9 10 11 MSG				m			STATU	5	•	

# 3GHz~10GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880

Agilent Spectrum Analyzer - Swep					
enter Freq 11.5000	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	01:57:13 PN Apr 17, 2019 TRACE 1 2 3 4 5 6 TUPE M	
Ref Offset 13. D dB/div Ref 30.00 d		#Atten: 30 dB		Mkr3 5.640 GHz -37.46 dBm	Auto Tu
00					Center Fr 11.500000000 G
0.0 0.0 0.0				-1000-000	Start Fr 3.000000000 G
2.0 440 ²⁶⁰ 244 ²⁶⁰ ²⁶⁰ 244 ²⁶⁰	anty days and the second states.	-14.0.0000			Stop Fr 20.000000000 G
tart 3.000 GHz Res BW 1.0 MHz	#VB	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.700000000 G Auto M
N         1         F           1         N         1         f           2         N         1         f           3         N         1         f           4	19.252 GHz 3.760 GHz 6.640 GHz	-31.52 dBm -35.93 dBm -37.46 dBm			Freq Off: 0
0 7 8 9 0					
<u> </u>		18			
a			STATU	s	

# 30MHz~3GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

M Agilent Spec	ctrum Analyzer										- 4
Center F		50 0 0C   5000000 GH:	z		E:INT	Avg		Log-Pwr	TRAC	M Apr 17, 201	Frequency
10 dB/div	Ref Offse Ref 30.	IFG	0: Fast 🔸	#Atten: 30				Mk	r1 1.898		Auto Tune
20.0 10.0						71					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10.00 iDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	ana ang pangan dina	and an a second seco			وستو ابتاعتانين	od In	at a set	un frankrykere	وسادات ويول مرجوعهم	nome	Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0 MHz	×	#VBW	/ 1.0 MHz	F1 INC	1000		weep 2.	Stop 3. 000 ms (	<u> </u>	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 3 4 5 6 7 7 8 9 10 11		1,898 1	GHz	26.23 dB							Freq Offset 0 Hz
MSG								STATUS			

# 3GHz~10GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

M Agilent Spectru	n Analyzer - Swept	t SA							
Center Fre	q 11.5000	00000 GHz	: 1		ISE:INT	ALIGN AUTO CLOG-PWF	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset 13: Ref 30.00 d	IFGain 9 dB	Low	Trig: Free #Atten: 30		 1	Mkr3 5.7	08 GHz 5 dBm	Auto Tune
20.0 10.0									Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0	<b>∮</b> ³							-1000 ADM	Start Freq 3.000000000 GHz
-40.0 -40.0 -50.0 -60.0		parteren de la		-	يهدية المعالية مودي				Stop Freq 20.000000000 GHz
Start 3.000 #Res BW 1.	0 MHz	×	#VBW	1.0 MHz		Sweep 2	8.33 ms (		CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4	1	18,861 G 3,805 G 5,708 G	Hz	-31.73 dE -35.60 dE -34.85 dE	im im				Freq Offset 0 Hz
5 6 7 8 9 10 11									
MSG						STATU	s		

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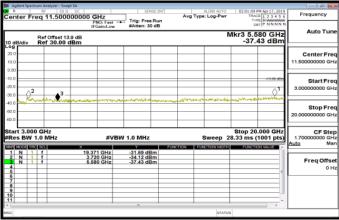
# Report No.: T190327W11-RP Page 100 of 199



#### 30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

	lent S	pectru	am Ai	nalyzer																							
Cent	ter	Fre	9 <b>q</b>	1.51	50 £		00	GH	Iz	ast -		Trio	SEP	NSE:1			Avg		LIGN:		(		NCE 1	234	5 6		Frequency
10 dE	3/div			offs 7 30					NO: P Sain:			#Att	en: 3	0 dE						М	(r1	1.85	53 (	6 G	Hz		Auto Tu
20.0 10.0 0.00		_		_	_		_					_	_			,	1	_							_		Center Fr 1.515000000 G
-10.0 -20.0 -30.0	_							_																-19.00			Start Fr 30.000000 M
-40.0 -50.0 -60.0				والار. ا	****	-	, o 1400	متراجع					مبليم		-ir-ta-			ù-275	-	10.00 MIL/*	<b>1</b> 1 1		No - L.				Stop Fr 3.000000000 G
Star #Re:	s Bl	N 1	0.				×		,	#VB	W 1	1.0 N	ИHz		FL	INCT	10N		Swee	<u> </u>	.00	itop : ) ms	(10	01 p	Hz ts)	Au	CF Sto 297.000000 Mi to M
1 2 3 4 5 6	N	1	1				1.8	353	6 Gł	łz		25.	37 di	Bm													Freq Offs 0
7 8 9 10 11													_														
MSG																				STATU	5					-	

#### 3GHz~10GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860



#### 30MHz~3GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

M Agilent Spectrum	Analyzer - Swept SA								0 6
Center Fred	1.5150000	00 GHz		SE:INT		ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div F	tef Offset 13.9 d tef 30.00 dBn	PNO: Fast IFGain:Low B	#Atten: 30			Mł	r1 1.871	4 GHz 9 dBm	Auto Tune
20.0 10.0					¥1				Center Freq 1.515000000 GHz
-10.0								-19.00 (Dw	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		ayan aha ayostaa		مىمىت دۇرىتىرىمىيىي	l la an	ge fine wet	19-01-000000000000000000000000000000000	www.syalar	Stop Freq 3.000000000 GHz
Start 30 MH #Res BW 1.0	MHz	x	BW 1.0 MHz			Sweep 2	.000 ms (1	. /	CF Step 297.000000 MHz Auto Man
		1.871 4 GHz	25.69 dB	m					Freq Offset 0 Hz
MSG						STATU	5		

# 3GHz~10GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

					ctrum Analyzer - Swe	Agilent S
Frequency	02:02:28 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	ALIGN AUTO Avg Type: Log-Pwr	SENSE:INT	000000 GHz		enter
Auto Tu	Akr3 5.640 GHz -39.26 dBm	N	#Atten: 30 dB		Ref Offset 13 Ref 30.00	0 dB/div
Center Fr 11.500000000 G						0.0
Start Fr 3.000000000 G					2 3	0.0
<u> </u>	alles been added a second of the	and the states and the states of the states	and work the state of the second	When some and a second when	and the second second	0.0
20.000000000 G CF St 1.700000000 G	Stop 20.000 GHz 8.33 ms (1001 pts)	· · ·	3W 1.0 MHz	#V	00 GHz 1.0 MHz	tart 3. Res Bl
20.000000000 G CF St 1.700000000 G <u>Auto</u> N Freq Offs	8.33 ms (1001 pts)	Sweep 2:		#V 18.895 GHz 3.750 GHz 5.640 GHz	1.0 MHz	0.0 tart 3. Res B/ 1 N 2 N 3 N 4 5
Stop Fr 20.00000000 G CF Stt 1.70000000 G Auto M Freq Offs 0	8.33 ms (1001 pts)	· · ·	-31,44 dBm -36,21 dBm	× 18.895 GHz 3.760 GHz	1.0 MHz	Res B
20.00000000 G CF St 1.70000000 G <u>Auto</u> M Freq Offs	8.33 ms (1001 pts)	· · ·	-31,44 dBm -36,21 dBm	× 18.895 GHz 3.760 GHz	1.0 MHz	tart 3. Res B 2010000 1 N 2 N 4 5 6 7 8 9 9 0

# 30MHz~3GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

	ctrum A	nalyzer - Swep									- 4
Center F	req '	50 D	00000 GH	z		SE:3NT	Avg	ALIGN AUTO Type: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		Offset 13	iFC	O:Fast - ain:Low	#Atten: 30			М	r1 1.892	TP NNNNN	Auto Tune
20.0 10.0							×1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10 00 (De	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	****	/Indone-Witchie			******		et Mar	hataterrangingan	9,0,8,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,		Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0			#VB	W 1.0 MHz				.000 ms (1	. /	CF Step 297.000000 MHz Auto Man
N         1         N         1           1         N         1         1         1           2         3         4         5         6           7         8         9         10         11           11			× 1,892 ;	2 GHz	¥ 25.62 dE		ICTON		PLINE TO	N VALUE	Freq Offset 0 Hz
MSG								STATU	s		

#### 3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

	trum Analyze		SA								
Center F	req 11.5					RUD		ALIGN AUTO CLOG-PWF	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offs Ref 30		dB	O: Fast ↔ iain:Low	#Atten: 3	0 dB			Mkr3 5.7	00 GHz 50 dBm	Auto Tune
20.0 10.0											Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0	2	<b>♦</b> ³					an Mariana				Start Freq 3.00000000 GHz
-40.0 -50.0 -50.0			(University)			ana tanàn 1997.					Stop Freq 20.00000000 GHz
Start 3.00 #Res BW	1.0 MHz	·		#VB	V 1.0 MHz			<u> </u>	8.33 ms (	. /	CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6 7 8 9 9 10			19.03 3.80 5.70	GHz GHz GHz	-32.01 df -35.44 df -36.60 df	3m 3m					Freq Offset 0 Hz
8 9 10 11 *					т			STATU	5	•	

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# 30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

🌉 Ag	ient S	pectry		nalyzer																				#	
Cen	ter	Fre	9 <b>a</b> '		50 Q	000	00 G	Hz			1		NSE:IN			Avg		AUTO PWF		02:08:32 TRA	OF	2245	6	Frequency	'
								PNC	): Fas iin:Lo	ut ↔ w		g: Fre tten: 3			_			м	kr1	1.71		GH	_	Auto T	une
10 de	3/div			offs f 30.											_					26	.04	dBr	n		_
20.0 10.0															1									Center F 1.515000000	
-10.0 -20.0 -30.0																						49-00-IE	-	Start F 30.000000	
-40.0 -50.0 -60.0	~ <b>9</b> 74	rwater	***		-			+						• الب			ولى م	 an the second	-	alan dan		by864,		Stop F 3.000000000	
Star #Re:	s Bl	W 1	0.				×		#\	VBW	1.0	MHz				TION		<u> </u>	2.00	Stop : 0 ms	(100	)1 pts	5)	CF S 297.000000 Auto	
	N		1				1.71	10	GHz		26	.04 d	Bm					 				_		Freq Of	<b>Tset</b> 0 Hz
7 8 9 10 11												18													
MSG																		STATL	15			, ,			

# 3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

Center Freq 11.50000000 GHz         Avg Type: Log-Pwr         Trace (1:33:33)         Frequency           100 Elder         Frequency         Avg Type: Log-Pwr         Trace (1:33:33)         Avg Type: Log-Pwr           100 Elder         Frequency         Trace (1:33:33)         Trace (1:33:33)         Avg Type: Log-Pwr         Trace (1:1:50000000 GHz         Trace (1:1:5000000 GHz         Trace (1:1:5000000 GHz         Stop Free         20:0000000 GHz         Trace (1:1:5000000 GHz         Trace (1:1:500000 GHz         Avg Type: Log-Pwr         20:00000000 GHz         Avg T	🌉 Agia	ent Spectrum	Analyzer - Swe	pt SA								
PBO, Fast         Trg: Free Run Action 2000         Carl Ref Offset 13.9 dB (Carl Low         Mkr3 5.132 GHz -36.81 dBm         Auto Tunc           0         Badra Ref Offset 13.9 dB (Carl Low         Mkr3 5.132 GHz -36.81 dBm         Mkr3 5.132 GHz -36.81 dBm         Auto Tunc           100	Cent	er Fred		000000 G	Hz			Avg Type	ALIGN AUTO E: Log-Pwr	TRAC	E123456	Frequency
Case         Center Free           100         15000000000000000000000000000000000000		R	ef Offset 13	P IFI	NO: Fast 🛏				N	Akr3 5.1	32 GHz	Auto Tune
100         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300 <td>20.0 10.0</td> <td>/div F</td> <td>ter 30.00</td> <td>dBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-30.</td> <td></td> <td>Center Freq 11.50000000 GHz</td>	20.0 10.0	/div F	ter 30.00	dBm						-30.		Center Freq 11.50000000 GHz
Stop Free         Stop Free <t< td=""><td>-10.0 -20.0 -30.0</td><td>0²</td><td></td><td></td><td></td><td></td><td></td><td>سروارياليال</td><td>and the state of t</td><td></td><td>0¹</td><td>Start Freq 3.00000000 GHz</td></t<>	-10.0 -20.0 -30.0	0 ²						سروارياليال	and the state of t		0 ¹	Start Freq 3.00000000 GHz
Eres BW 1.0 MHz         #VBW 1.0 MHz         Sweep 28.33 ms (1001 pts)         1.70000000 Mar           Exat Exat Interest         x         31.70 Mar         Folkston         Folkston         Folkston         Mar         Mar </td <td>-60.0</td> <td></td> <td>Stop Freq 20.000000000 GHz</td>	-60.0											Stop Freq 20.000000000 GHz
1         N         1         F         19,116 GHz         31,17 GHm         Press         Press         Press         Press         Press         Press         Press         OH         Press         OH         Press         Press         OH         Press         OH         OH         Press         OH	#Res	BW 1.0	MHz	×	#VB\		FLE		<u> </u>	8.33 ms (	1001 pts)	CF Step 1.700000000 GHz Auto Man
	1 2 4 5 6 7 8 9	N 1	1	19,11 3,42 5.13	6 GHz 1 GHz 2 GHz	-31,17 dE -38,77 dE -35,81 dE	Im					Freq Offset 0 Hz
	11					111			STATUS		•	

# 30MHz~3GHz Band4 1 4MHz QPSK 1 0 MidCH20175-1732.5

🛤 Agilent Spe	ctrum Analyzei									0 8
Center F		50 9 DC	Hz		NSE:INT		LIGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 dB/div			PNO:Fast ↔ FGain:Low	#Atten: 3	10 dB		Mk	r1 1.734	4 8 GHz 99 dBm	
20.0 10.0					,	1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0									-10.00 (Dr)	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	gebenggy gebeke		****				 Mangag Angkatikan	and a set of the set o	/Annergenetisco	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0 MHz	×	#VB\	V 1.0 MHz	-	UNCTO	Sweep 2	.000 ms (	.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
	1 1	1.73	4 8 GHz	24.99 d	Bm				_	Freq Offset 0 Hz
9 10 11 • •				т			STATUS			

# 3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_MidCH20175-1732.5

	trum Analyzer - Swep						- 4 🐱
Center Fi	req 11.5000	00000 GHz PNO: Fast	SENSE:11	Avg Typ	ALIGN AUTO e: Log-Pwr	02:11:41 PM Apr 17, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d	IFGain:Low 9 dB	#Atten: 30 dB		N	lkr3 5.198 GHz -35.39 dBm	Auto Tun
20.0							Center Fre 11.50000000 GF
10.0 20.0 30.0 <b>2</b>							Start Fre 3.000000000 GF
40.0	2440 BCC.640-1	an a	15000 Alice - 167 Book - 172 Law	and the state of t			Stop Fr 20.000000000 G
tart 3.00 Res BW	1.0 MHz	#VE	3W 1.0 MHz	FUNCTION FU	<u> </u>	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GI Auto M
1 N 1 2 N 1 3 N 1 4 5 6	() 2005 f f f f	* 3.465 GHz 5.198 GHz	-31,68 dBm -40.30 dBm -36.39 dBm			PUNCTION VALUE	Freq Offs 0
7 8 9 10 11							
50			20		STATUS		

# 30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

🛤 Agilent Sper	ctrum Analyze										0 8
Center F	⊮ req 1.5	50 9 DC	Hz		NSE:INT			LIGN AUTO	TRA	M Apr 17, 2019	Frequency
10 dB/div		set 13.9 dB .00 dBm	PNO: Fast H FGain:Low	#Atten: 3				М	r1 1.75	5 6 GHz 86 dBm	Auto Tune
20.0 10.0						X1					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10.00 iDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	4	alandar and all and a				-l	addetserfe	1940-1848-1934-194	and the second	المونعدين <b>اليركر الي</b> ر	Stop Freq 3.000000000 GHz
Start 30 / #Res BW	1.0 MH2	: 	#VB	N 1.0 MHz		INCLU		Sweep 2	.000 ms (	.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 8 9 9 10 11			5 6 GHz	25.86 dt							Freq Offset 0 Hz
NSG				11				STATU	s	•	

# 3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

🌉 Agilent Spe	ectrum Ar	nalyzer - Swep	e SA								
Center F	⊮ req′	50 S	00000 G	Hz		ISE:INT		ALIGN AUTO COG-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		Offset 13 7 30.00 c	9 dB	O: Fast ↔ iain:Low	#Atten: 3			n	Mkr3 5.2	T P NNNN N	Auto Tune
20.0 10.0											Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0		<b>♦</b> ³			الدستورية ورواوي				لونزومهموري		Start Freq 3.00000000 GHz
-40.0											Stop Freq 20.00000000 GHz
Start 3.0 #Res BW	1.0	MHz		#VBV	V 1.0 MHz			<u> </u>	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 2 N 3 N 4 5 6 7 8 9 9 10			X 18.52 3.50 5.26	GHz GHz GHz	-32.27 df -39.66 df -36.76 df	3m 3m	FUT	NCTION WADTH	PUNCTION		Freq Offset 0 Hz
MSG								STATU	s		

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### 30MHz~3GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

🌉 Agi	lent Sp	ectrum	Ani	nlyzer - Si		SA																		
Cent	ter l	Free	⊮  1	.5150		000				],	ria: Fre	NSE:IN	r		Avg T		LIGN AU Log-P		02:1	TRAC	N Apr 17	456		Frequency
10 dE	Vdiv			Offset			IF	NO: F Gain:	ast ⊷ Low		Atten: 3	0 dB					1	Mk	r1 1.	711	0 G	Hz	н.	Auto Tune
20.0 10.0													1											Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0																				_	-19.6	_		Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	ر معالي ا	iji dend	<i>,</i>	a provincia	***				*****		en al a de la d	<b></b>	يبالم	-	dentre .		trad cand		- <b>1</b> 14-1-1	and tree		u-h		Stop Freq 3.000000000 GHz
Star #Res	s BV	V 1.0	M	IHz					#VB\	N 1.	0 MHz	-				_	weep		000 n	ns (	.000 C	pts)	4	CF Step 297.000000 MHz uto Man
1 2 3 4 5 6 7 8 9 10 11						1	1.711	0 Gł			25.84 d	Bm												Freq Offset 0 Hz
MSG		-					-		-	-	m	-	-		-		ST	ATUS				,	L	

### 3GHz~10GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

🋤 Ag	pilent Spec		nalyzer - Swe									
Cen	iter Fi	req 1	50 S	000000	SHz		NSE:INT		ALIGN AUTO	TRAC	Apr 17, 2019	Frequency
		Ref	Offset 13	ii Bb 68	NO: Fast - Gain:Low	#Atten: 3			N	Akr3 5.1	35 GHz	Auto Tune
20.0 10.0	B/div	Re	f 30.00	dBm						-36.	73 dBm	Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0	03	w	<b>♦</b> ³	. harara			hillerentlinger	a second and a second and	ant front and design	م مارود مالارور مالارور و		Start Freq 3.00000000 GHz
-40.0 -50.0 -60.0												Stop Freq 20.000000000 GHz
#Re	nt 3.00 s BW	1.0	MHz	×	#VB	W 1.0 MHz	FU		Sweep 2	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz <u>Auto</u> Man
1 2 3 4 5 6 7 8 9 10 11 1	N 1 N 1	1		3.4	53 GHz 23 GHz 35 GHz	-32,11 de -39,92 de -36,73 de	3m 3m					Freq Offset 0 Hz
MSG									STATUS	1		

# 30MHz~3GHz Band4 3MHz QPSK 1 0 MidCH20175-1732.5

	ctrum Analyzer									0 6 8
Center F		50 A DC	GHz		NSE:INT	Avg Typ	e: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		et 13.9 dB .00 dBm	PNO: Fast H IFGain:Low	#Atten: 3			М	r1 1.73	1 8 GHz 46 dBm	Auto Tune
20.0 10.0										Center Freq 1.515000000 GHz
-10.0									-10.00 iDn	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	ann gan an ann an	and the second		**************************************		اللادين، واليوسي ال	a and done		ante herea	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0 MHz	×	#VB	/ 1.0 MHz	-		Sweep 2	.000 ms (	.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 8 9 10	1 1	1.73	31 8 GHz	24.46 d	Bm					Freq Offset 0 Hz
9 10 11 11				н			STATU	5	, ·	

# 3GHz~10GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5

📕 Agilent Spectrum Analyz					
Center Freq 11.		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:19:10 PM Apr 17, 2019 TRACE 1 2 3 4 5 6 TYPE M WWW	Frequency
10 dB/div Ref 3	PNO: Fast IFGain:Low set 13.9 dB 0.00 dBm	Trig: Free Run #Atten: 30 dB	N	Akr3 5.198 GHz -36.99 dBm	Auto Tune
20.0 10.0					Center Fre 11.500000000 GH
-10.0 -20.0 -30.0				-1000 dBm	Start Fre 3.000000000 GH
-40.0	hundhaan oo yada dadaa dada	addree and the standing of the second	594 - 494 ¹ 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	an place in the second second	Stop Fre 20.000000000 GF
Start 3.000 GHz #Res BW 1.0 MH	z #VE	3W 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
MODE         MODE <th< td=""><td>× 19.915 GHz 3.465 GHz 5.198 GHz</td><td>-31.82 dBm -39.03 dBm -36.99 dBm</td><td>FUNCTION WOTH</td><td></td><td>Freq Offse 0 H</td></th<>	× 19.915 GHz 3.465 GHz 5.198 GHz	-31.82 dBm -39.03 dBm -36.99 dBm	FUNCTION WOTH		Freq Offse 0 H
11 •	1		STATUS	· · ·	

# 30MHz~3GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5

	ctrum A	nalyzer - Swep	it SA											- 4
Center F	req	50 Q	0000 GH	z		ISE:1NT		Avg		og-Pwr	TR	7 PN Apr 17, 2 AGE 1 2 3 4 TYPE M WWW	5 6	Frequency
10 dB/div		f 30.00 c	9 dB	KO:Fast ⊶ Gain:Low	#Atten: 30					M	(r1 1.7	52 6 GI	N N	Auto Tune
20.0 10.0							1						-	Center Freq 1.515000000 GHz
-10.0												-40.001		Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	~~~	ويتمول اللارليس	and the second		*		<u></u>	لللجمي		*****	han and	HICKLING, LAND	~	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0			#VB	N 1.0 MHz					<u> </u>	.000 ms	3.000 Gi (1001 pi	Hz ts)	CF Step 297.000000 MHz Auto Man
1         N         1           2         3         4           5         6         7           8         9         10           11			× 1.752 (	5 GHz	26.41 dE				FUNCT	ON WIDTH		TION VALUE		Freq Offset 0 Hz
196										STATU	s			

# 3GHz~10GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5

🌉 Agilent Spe	ctrum Ar	nalyzer - Swep	it SA							
Center F	req '	50 g 11.5000	00000 G	Hz		NSE:3NT	ALIGN AUTO COG-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		Offset 13 7 30.00 c	9 dB	Ю:Fast ⊶ iain:Low	#Atten: 3		N	/kr3 5.2	61 GHz 99 dBm	Auto Tune
20.0 10.0										Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0		<b>▲</b> ³			n Alman Branch					Start Freq 3.000000000 GHz
-40.0		~~~~				and the second se				Stop Freq 20.00000000 GHz
Start 3.0 #Res BW	1.0	MHz		#VB	V 1.0 MHz		<u> </u>	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 2 N 3 N 4 5 6 7 7 8 8 9 10 11			× 19.09 3.50 5.26	9 GHz 7 GHz 1 GHz	-31.42 df -41.36 df -37.99 df	3m 3m	ACTION WIDT H	PORCEIX		Freq Offset 0 Hz
MSG							STATUS	5		t

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### 30MHz~3GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

🌉 Agi	lent S	pectru	um A	nalyze	r + Swe																				- # <b>-</b>
Cen	ter	Fre	ed i	1.51	50 S		000	GH	z			a: Fre	NSE:1N			Avg		LIGN: Log		0.	TY		345	ē	Frequency
10 de	Udiv				iet 13			IFG	IO: Fi Iain:L	ast ⊶ .ow		tten: 3							Mł	( <b>r1</b> )	ء 1.71	ет  Р № 10	NNN		Auto Tune
20.0 10.0														1	Ī										Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0								_															00 (E)		Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		,	-	ميا ^{ير} ر.		<b>G</b>				nikdara			****	مواليم	~	inolese a	Are		10-1-13		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Stop Freq 3.00000000 GHz
Star #Re:	s Bl	N 1	.0		:		×		\$	¢νΒ₩	V 1.0	MHz		FUR		ION			<u> </u>	.000	top 3 ms (	(100	l pts	11	CF Step 297.000000 MHz Auto Man
1 2 3 4 5 6	N	1	1				1.7	11 0	) GH	z	2	5.81 d	Bm										=		Freq Offset 0 Hz
7 8 9 10 11						_																			
MSG												m							STATU	s			,		

### 3GHz~10GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

🌉 Ag	ilent Spectrum.	Analyzer - Swep	rt SA								
Cen	ter Freq	50 Q 11.5000	00000 GI			SE:INT		ALIGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 d		ef Offset 13	9 dB	O:Fast ↔ ain:Low	#Atten: 30	dB		N	Akr3 5.1	38 GHz 51 dBm	Auto Tune
20.0 10.0		50.00 0									Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0	2 ¹	<b>◆</b> ³		11	Contract reports and					-10:00 (De	Start Freq 3.00000000 GHz
-40.0 -50.0 -60.0											Stop Freq 20.000000000 GHz
#Re	1 3.000 G sBW 1.0	MHz	×	#VBV	V 1.0 MHz	FLIN	CTION FUN	<u> </u>	8.33 ms (	. /	CF Step 1.700000000 GHz <u>Auto</u> Man
1 2 3 4 5 6 7 8 9 10 11			3.425	3 GHz 5 GHz 3 GHz	-32.05 dB -41.17 dB -36.51 dB	m					Freq Offset 0 Hz
MSG								STATUS	1		

# 30MHz~3GHz Band4 5MHz QPSK 1 0 MidCH20175-1732.5

M Agilent Spectrum Analyzer - Swe					
Center Freq 1.51500	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:28:59 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13 10 dB/div Ref 30.00	PNO: Fast ↔ IFGain:Low	#Atten: 30 dB	Mł	r1 1.731 8 GHz 26.42 dBm	Auto Tune
20.0 10.0					Center Freq 1.515000000 GHz
-10.0				-10.00 (Em	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	alle and a second s		- LBourseaforst-Marker	an dia mangana ang sa	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
N 1 f 3 4 5 5 6 7 7 8 9 9 10	1,731 8 GHz	26.42 dBm			Freq Offset 0 Hz
MSG			STATU	5	

#### 3GHz~10GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5

M Agilent Spectrum Analyzer - Si	wept SA				
Center Freg 11.50		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:29:13 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Center Fred 11.500	PNO: Fast -	Trig: Free Run	Kvg Type: Log-Pwr	DET P NNNNN	
	IFGain:Low	#Atten: 30 dB			Auto Tune
Ref Offset			n	4kr3 5.198 GHz -37.02 dBm	Auto Tune
20.0 10.0					Center Free 11.500000000 GH;
-10.0 -20.0 -30.0					Start Free 3.000000000 GH:
-30.0 -40.0 -50.0 -60.0	an a	ig of an and a star and a star	iyaala dii madiida ka ahaa ka ahaa ka ahaa ahaa ka ahaa	Lagel Parry Hall & St. Control of State	Stop Free 20.000000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Stej 1.700000000 GH Auto Ma
N         1         f           2         N         1         f           3         N         1         f           4         -         -         -           6         -         -         -	19.133 GHz 3.465 GHz 6.198 GHz	-31,46 dBm -37,39 dBm -37,02 dBm			Freq Offse 0 H
7 8 9 10 11					
1 (				•	
MSG			STATUS	5	

#### 30MHz~3GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

	ctrum A	nalyzer - Swep	it SA									- 4
Center F	req	50 Q	0000 GH	z		ISE:INT	Av		LIGN AUTO	TRJ	PM Apr 17, 2015	Frequency
10 dB/div		f 30.00 c	9 dB	KO:Fast ⊶ Gain:Low	#Atten: 30				м	kr1 1.75	2 6 GHz .66 dBm	Auto Tune
20.0 10.0							1					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0											-10:00 (Der	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		ango langunia,	~~~~~			ليبدلا يدحي	line to a	مەر الىر رال	ر بر المروم میں المراجم می المراجم میں المراجم میں الم	le sudit a far india	the contraction of the second s	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0			#VB	N 1.0 MHz				<u> </u>	2.000 ms	3.000 GHz (1001 pts)	CF Step 297.000000 MHz Auto Man
N         1         N         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 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>			× 1.752 (	5 GHz	26.66 dB		ICTION .	Pun 	CTION WIDT	PUNE		Freq Offset 0 Hz
56									STAT	15		

#### 3GHz~10GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

M Agilent Sper	ctrum Anal		SA							
Center F	req 1′	50 S	00000 G	Hz		NSE:INT	ALIGN AUTO COG-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		offset 13. 30.00 d	iFG 9 dB	O: Fast ↔ iain:Low	#Atten: 3		n	/kr3 5.2	T P NNNN N	Auto Tune
20.0 10.0										Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0		<b>≜</b> ³			والمروم المراجع المراجع					Start Freq 3.000000000 GHz
-40.0		-	na yaya kada da							Stop Freq 20.000000000 GHz
Start 3.00 #Res BW	1.0 M		×	#VB	V 1.0 MHz		Sweep 2	8.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 5 6 7 8 9 9			20.000	9 GHz 5 GHz 8 GHz	-32.18 df -38.48 df -37.26 df	3m 3m				Freq Offset 0 Hz
11 • .				_			 STATU	5	· · ·	

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#### 30MHz~3GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715

🌉 Ag	ien	t Spe	ctrur	m Ar	natyze	r - Sv		SA																					_	-0-	- 21- <b>- 23-</b>
Cen	te	r F	re	¥ ۹ '	1.5	50 150		000	0 G	H	2			Tria		NSE:1N			Avş	Туре		n AUT g-Pw		02	35:57 TRA	OE 1	234	5.6		Freque	ncy
10 di	Bid	tiv				set 1				FG	D: Fa	ow	•	#Atta	in: 3	0 dB						N	1kı	r1 1	.71 25.	ет Р 1 0 17	GH	Iz		Aut	o Tune
20.0 10.0																	Ĭ	1										-		Cent 1.515000	er Freq 000 GHz
-10.0 -20.0 -30.0																											10:00 1	_			irt Freq 000 MHz
-40.0 -50.0 -60.0		***	ul-v,	-	,4v*	- Caro	-				oyen to				****	(ru6%-			فأحتبنا	e to Bed	6	ي		That have		(	n.e.st			Sto 3.000000	p Freq 000 GHz
Star #Re	s E	BW	1.	0 1	_	z			_		#	VB	w	1.0 N	1Hz				TION		_	eep	_	000	op 3 ms (	(100	1 pt	iz s)	AL	297.0000	F Step 000 MHz Man
1 2 3 4 5 6 7 8 9 10 11				1					1.71	10	GH	Z		25.1		3m			1101			ON WID					,			Freq	0ffset 0 Hz
MSG																						STA	TUS						_		

### 3GHz~10GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715

R 6€   50 Ω DC   SENSE:3NT   ALIGN AUTO   02:36:09 0M Apr 17, 201     Center Freq 11.500000000 GHz     Center Freq 11.500000000 GHz     Trig: Free Run     Trig: Free Run	Frequency
Centrer         Free Run BrGain-Low         Trage Free Run #Atten: 30 dB         Trage Free Run #Atten: 30 dB           10 dB/div         Ref 076+413 dB         Mkr3 5,145 GH: -0.618 dBm         -36.18 dBm	Auto Tune
	Center Freq 11.50000000 GHz
100	Start Freq 3.000000000 GHz
	Stop Freq 20.000000000 GHz
Start 3.000 GHz         Stop 2.000 GHz           #Res BW 1.0 MHz         #VBW 1.0 MHz         Sweep 28.33 ms (1001 pts)           Start Res Transmond File         x         Y         Functions with restore that the start of the	CF Step 1.700000000 GHz Auto Man
1         N         1         A         1         8.10         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         0.100         <	Freq Offset 0 Hz
MISG STATUS	

# 30MHz~3GHz Band4 10MHz QPSK 1 0 MidCH20175-1732.5

Agilent Spectrum Analyzer - Swept SA			0 8
Center Freq 1.515000000	GHz DWD: East and Trig: Free Run	ALIGN AUTO 02:39:59 PM Apr 17, 2019 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 TRACE	Frequency
Ref Offset 13.9 dB 10 dB/div Ref 30.00 dBm	PN0: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 1.728 8 GHz 20.26 dBm	Auto Tune
20.0 10.0			Center Freq 1.515000000 GHz
-10.0			Start Freq 30.000000 MHz
-40.0	alan a an	a a constant and a const	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 2.000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
N         1         f         1,           2         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	728 8 GHz 20.26 dBm		Freq Offset 0 Hz
MSG		STATUS	

#### 3GHz~10GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5

- #		-				-		pt SA	n Analyzer - Sw	t Spectru	Agilent
Frequency	PM Apr 17, 2019	TRA	ALIGN AUTO pe: Log-Pwr	AvgT	NSE:INT	1	Hz	000000 G	r 11.500	r Fre	enter
Auto Tu	P NNNN N	Mkr3 5.1	N			#Atten: 3	¥O:Fast ↔ Sain:Low	1F 3.9 dB	Ref Offset 1 Ref 30.00		dB/d
Center Fr 11.500000000 G											0.0
Start Fr 3.000000000 G	-1000 dBm								▲3		0.0
Stop Fr 20.000000000 G		نار-بە-مەھارمەلىلىد		en porto	*****	-le,sle/4/14.ar	erward-wyh	alah _a kufukatan	and some	) <del>4</del> ~	0.0 <del>~ (</del> 0.0 _
CF St 1.700000000 G Auto	0.000 GHz (1001 pts)	28.33 ms (	Sweep 2	ICTION		1.0 MHz	#VBV	×	0 MHz	3.000 BW 1.	Res E
Freq Off: 0					Bm	-31.75 di -40.57 di -35.74 di	5 GHz 5 GHz 8 GHz	3.46		1	1 N 2 N 4 5 6
											7 8 9 0 1
I	•	us	STATUS								a

### 30MHz~3GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

		nalyzer - Swep	t SA									- 4 -
Center F	req '	50 B 1.51500	0000 GH	z		ISE:INT	Avg		LIGN AUTO	TRA	PM Apr 17, 2019 CE 1 2 3 4 5 (	Frequency
10 dB/div	Ref	Offset 13.	9 dB	¥O:Fast ↔ Sain:Low	#Atten: 30	dB			Mł	(r1 1.74	6 7 GHz 00 dBm	Auto Tune
20.0 10.0							1					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0											-10:00 iEm	Start Freq 30.000000 MHz
-40.0 -60.0 -60.0		and a second second			*****	اليسيين	n sintes	-	aligned have a filter	, Apartana (	- Allenander	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0		×	#VB\	V 1.0 MHz		- T MAN		weep 2	.000 ms	3.000 GHz (1001 pts)	CF Step 297.000000 MHz Auto Man
			1,746	7 GHz	24.00 dE		211244					Freq Offset 0 Hz

# 3GHz~10GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

M Agilent Spect	rum Analyzer - Swe								
Center Fr	eq 11.500	000000 GHz		NSE:INT		ALIGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset 13 Ref 30.00	IFGain: 3.9 dB		0 dB		N	/kr3 5.2	50 GHz 15 dBm	Auto Tune
20.0 10.0									Center Freq 11.50000000 GHz
-10.0 -20.0 -30.0	<b>●</b> ³				allow of				Start Freq 3.000000000 GHz
-40.0 -50.0 -60.0		and the second	engado nortente		1. 100 million (1. 144)				Stop Freq 20.000000000 GHz
Start 3.00 #Res BW	1.0 MHz		#VBW 1.0 MHz	-		<u> </u>	8.33 ms (	. /	CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6 7 7 8 9 9 10		× 18.827 GH 3.500 GH 5.250 GH	-38.65 d	Bm Bm			FUNCTO		Freq Offset 0 Hz
A MSG					1	STATUS	5	•	

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# 30MHz~3GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

🏬 Ag	ilent S	pectr	um Ai	nalyzer - S		SA .		_															
Cen	ter	Fre	}q '	1.515	000	0000	GH	Z O: Fax		Tela	Free	SE:INT		Av		ALIGN /		02:4	TRAC	M Apr 17, E 1 2 3 E M WW	456		Frequency
10 di	Bidiy	IFGain:Low #Atten: 30 dB DET PANNAR Ref Offset 13.9 dB Mkr1 1.714 0 DF												Auto Tune									
20.0 10.0		_		00.0									71									1	Center Freq .515000000 GHz
-10.0 -20.0 -30.0	_				+															-10.0	_		Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		844-3		*******						******			, <b>d</b> ] <b>b</b> o		*****		had no bee			-	240 and 1	3	Stop Freq .000000000 GHz
Star #Re	s B\	W 1	.01			×				1.0 N			FUNC	TION		Swee	-	1 000.	nis (	.000 G 1001 p	Hz ots)	Aut	CF Step 297.000000 MHz 2 Man
1 2 3 4 5 6 7	N	1	1			1.3	714 (	) GHz		26.5	52 dE	3m											Freq Offset 0 Hz
7 8 9 10 11																							
MSG																	STATUS					<u> </u>	

### 3GHz~10GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

100 A			nahzer - Swei			_						
P P	eent spec	Crum A	50 Q	DC		66			ALIGN AUTO	02:47:22	PM Apr 17, 2019	
Cen	ter Er	rea		00000 G	Hz			Avg Typ	e: Log-Pwr	TRA	00123456	Frequency
0.011			1110000	P	NO: Fast +	Trig: Fre	e Run		-	TY		
				IF	Gain:Low	#Atten: 3	0 dB				53 GHz	Auto Tune
		Ref	Auto Tune									
10 di	B/div		f 30.00 (							-36.	93 dBm	
Log												
20.0	<u> </u>	-										Center Freq
10.0												11.500000000 GHz
0.00												
-10.0		-				-		-			-10.00 (Dr)	Start Freq
-20.0	<u> </u>	-										3.000000000 GHz
-20.0			A3								0'	
40.0	a Strat	- Auto	makan	a menine	marchen	- manowa	everen.	a marging to the	Mar Andrews 10	Angen and the second	Hotogrammer	
												Stop Freq
-50.0		-		-	-	-		-	-			20.000000000 GHz
-60.D												20.0000000000000
	t 3.00										.000 GHz	CF Step
#Re:	s BW	1.0	MHz		#VB	W 1.0 MHz			Sweep 2	8.33 ms (	1001 pts)	1.700000000 GHz
STOLEN IN	MOTO: TH			~		Y		ICTION   FU			ON WALLE	Auto Man
	N 1			18.72	5 GHz	-31,74 dl						
2	N 1	1		3.43	5 GHz	-39.20 dl	Bm					Freq Offset
4	N 1	1		5.15	3 GHz	-36.93 di	Bm					
5		+										0 Hz
6												
7	_	+					_					
6 7 8 9		+					-					
10												
11	_	-	-			181	_					
1 m						10				1		
MSG									STATUS	1		

# 30MHz~3GHz Band4 15MHz QPSK 1 0 MidCH20175-1732.5

M Agilent Spectrum	m Analyzer + Swept SA								0 6
Center Fre	q 1.515000000	GHz	SENSE:1		AL3 Avg Type: L	IGN AUTO	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset 13.9 dB Ref 30.00 dBm	PNO: Fast +++ IFGain:Low	#Atten: 30 dB			Mki	1 1.728	8 GHz 9 dBm	Auto Tune
20.0 10.0									Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0								-19.00 (Dw	Start Freq 30.000000 MHz
-40.0		9 <b></b>		ul has		ndara da forma de la constante	*******		Stop Freq 3.000000000 GHz
Start 30 MH #Res BW 1.	0 MHz		1.0 MHz	FUNCTIO	Sv.	<u> </u>	000 ms (1	000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4 5 6 6 7 7 8 9 9 10	f 1.3	728 8 GHz	24.69 dBm					-	Freq Offset 0 Hz
11 •						STATUS		•	

#### 3GHz~10GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5

🜉 Agilent Spectrum Analyzer - Sv					
Center Freg 11.500		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:50:51 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Center Fred 11.500	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 30 dB		DET P NNNN	Auto Tune
10 dB/div Ref 30.00			1	/kr3 5.198 GHz -36.79 dBm	Auto Tune
20.0 10.0					Center Fred 11.50000000 GH:
-10.0 -20.0 -30.0					Start Free 3.000000000 GH:
-40.0	na de la constanta de la contra constante de la contra constante de la contra constante de la contra constante	hand a far and a far and a far a	ing a classes strand for since the film	and a second	Stop Free 20.000000000 GH;
Start 3.000 GHz #Res BW 1.0 MHz	#VBV	/ 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
1 N 1 f 2 N 1 f 3 N 1 f 4 5	17.178 GHz 3.465 GHz 5.198 GHz	-32.06 dBm -40.58 dBm -36.79 dBm			Freq Offse 0 H
6 7 8 9 10 11					
			'	•	
MSG			STATU	5	

#### 30MHz~3GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5

M Agilent Sper	ctrum A	nalyzer - Swep	t SA										1 1 1
Center F	req	50 £ 1.51500	0000 GH	z		ENSE:INT		Avg	LIGN AUTO	02:53	08 PM Apr 17 RACE 1 2 3 TYPE M WW	456	Frequency
10 dB/div		Offset 13.	9 dB	VO: Fast Sain:Low	#Atten:				 м	kr1 1.7 2	DET P NN	Hz	Auto Tune
20.0 10.0							1						Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0							1					10 -Em	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	y-16.pr	an a			·			No, new Vintere	 Huy Magal	an and			Stop Freq 3.000000000 GHz
Start 30 P #Res BW	1.0		×	#VI	BW 1.0 MH				weep	2.000 m	s (1001	pts)	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 7 8 9 9 10 11			1.743	7 GHz	24.23 (								Freq Offset 0 Hz
MSG									STATE	15			

#### 3GHz~10GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5

🌉 Agilent Spec	ctrum Analyze									
Center F	⊮ req 11.	50 9 DC	00 GHz		NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		set 13.9 dB ).00 dBm	PNO: Fast IFGain:Low					Mkr3 5.2	43 GHz 27 dBm	Auto Tune
20.0 10.0										Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0		3							-1000-00m	Start Freq 3.000000000 GHz
-40.0			ayyn yf felwyr y	fighe productions and a	1		a na maria ana			Stop Freq 20.000000000 GHz
Start 3.00 #Res BW	1.0 MH	z	#V	BW 1.0 MHz	·	CTION FU	<u> </u>	28.33 ms (	.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 1 2 N 1 3 N 1			19.405 GHz 3.495 GHz 6.243 GHz	-32.24 d -40.50 d -37.27 d	Bm Bm					Freq Offset 0 Hz
4 5 7 8 9 10 11										
MSG							STATU	15		

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