

# Report No.: ER/2021/20011 Page: 46 of 80

# Band77\_40MHz\_CP\_QPSK\_1\_0\_LowCH648000

	pectrum Analyzer - ACP									
RL	RF 50 Ω	DC	Cente	SENSE:INT r Freq: 3.720000	000 GHz	ALIGN AU		3:18:20 PM dio Std: 1	Mar 29, 2021	Frequency
PASS	Gate: LO	IFGain:L	Trig: I	Free Run h: 30 dB				dio Devic		
10 dB/div	Ref Offset Ref 30.00									
20.0				9.6 dBm	_					Center Freq
10.0	-43.1 dB	с <b>н</b>			- 11		-45.5	5 dBc		3.720000000 GHz
-10.0										
-20.0								_		
-30.0				_		-	-			
-40.0				-			-			
-50.0 -60.0	regression of a	a service and a service and	mound	entral forther as	when	44.464	min	ly ministry w	1945-1945 1947-1946	
Center 3 #Res BW	.72000 GHz / 51 kHz		#	VBW 160 k	Hz				0.0 MHz 139 ms	CF Step 12.000000 MHz
Total Ca	rrier Power	19.581 dBm/ 40	.00 MHz	ACP-I	BW					Auto Man
					Lo	wer	U	pper		
Carrier F	ower	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	FreqOffset
1 19	.581 dBm / 40.00	MHz -3 dB	40.00 MHz	40.00 MHz	-43.05		-45.48	-25.90	-3 dB	0 Hz
			20.50 MHz	1.000 MHz				-41.81	-3 dB	
			21.50 MHz	1.000 MHz	-58.43	-38.85	-61.44	-41.86	-3 dB	
/SG			L			\$1	ATUS			L

03:27:42 PM Mar 29 Radio Std: None Frequency Trig: F Radio Device: BTS Ref Offset 15.36 dE Ref 30.00 dBm Center Fre -42.9 dB 45.9 dBc Span 120.0 MHz Sweep 130 mm Center 3.84000 G #Res BW 51 kHz er 3.84000 GHz CF Step #VBW 160 kHz /eep 139 m 12.0 19.2 ACP-IBW Total Ca Lowe Uppe Carrier Power Filter 
 dBm
 dBc
 dBm

 -23.69
 -45.86
 -26.65

 -23.46
 -61.76
 -42.56

 -38.81
 -61.79
 -42.58
 Freq Offse Offset Free 40.00 MHz Integ BW 40.00 MHz -42.90 -3 dB 0 H 20.50 MHz 1.000 MHz -42.67 -3 dB -3 dB 21.50 MH 1.000 MHz

Band77\_40MHz\_CP\_QPSK\_1\_0\_MidCH656000

	Band	7_40M	Hz_CP_	_QPSK_	1_0_	High	СНе	66400	)0		
RL PASS	ectrum Analyzer - ACP RF 50 Ω DC Gate: LO	IFGain:Lo	Center Trig: Fi		0000 GHz	ALIGN AU	Ra	3:32:59 PM Idio Std: 1 Idio Devic		Freque	
10 dB/div	Ref Offset 15.3 Ref 30.00 dl										
20.0 10.0	-43.1 dBc		15	10 dBm	-		-45.	1 dBc		Cent 3.9600000	e <b>r Freq</b> 100 GHz
-10.0 -20.0								_			
-30.0 -40.0 -50.0	والمجد والمرود المراجع المراجع	would	Vialimum	-	North Land	la alman	J	y Davidanda	RAFE AND		
-60.0	96000 GHz			/BW 160 k			5	Span 12	0.0 MHz 139 ms	12.000	F Step
Total Car	rier Power 19.	050 dBm/ 40.0	0 MHz	ACP-I	BW					Auto	Man
Carrier P	ower 050 dBm / 40.00 Mł	Filter Iz -3 dB	Offset Freq 40.00 MHz 20.50 MHz 21.50 MHz	Integ BW 40.00 MHz 1.000 MHz 1.000 MHz	dBc -43.08 -42.16	dBm -24.03 -23.11 -40.05	dBc -45.12 -61.29		Filter -3 dB -3 dB -3 dB	Freq	Offset 0 Hz
MSG						ST	ATUS				

# Band77\_40MHz\_CP\_QPSK\_1\_105\_LowCH648000

RL RF 50	Ω DC   IFGain:1	Center Trig: Fi	ENSE:INT Freq: 3.720000 ree Run 30 dB		ALIGN AUT	Rad	dio Std: N dio Device		Frequency
0 dB/div Ref 30.	et 15.36 dB .00 dBm								
.og 20.0 -45.5	10.	19	.3 dBm			-42.9	48.4		Center Fre
10.0	obc T			1		242.9	dBc		3.72000000 GH
0.0									
0.0									
0.0						_			
									1
0.0									
0.0	**	(montrine montrine th	warmhalistan)	work in	eren an	www.have	en-man	SHE AVE	
		(qayat) (shahqan tara)	n a canada fisinana (	nger h	en ny tanan fi		er-144		
0.0 مەروپىيى مەروپىيى مەروپىيى مەروپىيى 0.0 center 3.72000 GHz			/BW 160 kł		enniger of a	S	pan 12	0.0 MHz 139 ms	
onter 3.72000 GHz Res BW 51 kHz		#\		Hz	eval (erral)	S	pan 12	).0 MHz	12.000000 MH
oo sypilariyaaaayo enter 3.72000 GHz Res BW 51 KHz Total Carrier Power	19.262 dBm/ 4	#\ 0.00 MHz	/BW 160 kł	Hz BW Lov	wer	S  S	pan 120 Sweep	0.0 MHz 139 ms	12.000000 MH Auto Ma
enter 3.72000 GHz Res BW 51 kHz Fotal Carrier Power Carrier Power	19.262 dBm/ 40 Filter	#\ 0.00 MHz Offset Freq	ACP-IE	Hz BW Lov dBc	wer dBm	S  S Up dBc	pan 120 Sweep	0.0 MHz 139 ms Filter	12.000000 MH Auto Ma
50.0	19.262 dBm/ 40 Filter	#N 0.00 MHz Offset Freq 40.00 MHz	ACP-II Integ BW 40.00 MHz	Hz BW dBc -45.48	wer dBm -26.21	U; dBc -42.88	pan 120 Sweep	0.0 MHz 139 ms Filter -3 dB	12.000000 MH Auto Ma
200 Sppidenspiperen center 3.72000 GHz Res BW 51 kHz Total Carrier Power Carrier Power	19.262 dBm/ 40 Filter	#\ 0.00 MHz 0ffset Freq 40.00 MHz 20.50 MHz	/BW 160 ki ACP-II Integ BW 40.00 MHz 1.000 MHz	Hz BW 	wer dBm -26.21	Up dBc -42.88 -42.91	pan 120 Sweep pper dBm -23.61 -23.65	0.0 MHz 139 ms Filter -3 dB -3 dB	12.000000 MF Auto Ma
on enter 3.72000 GHz Res BW 51 kHz fotal Carrier Power Carrier Power	19.262 dBm/ 40 Filter	#N 0.00 MHz Offset Freq 40.00 MHz	ACP-II Integ BW 40.00 MHz	Hz BW 	wer dBm -26.21	Up dBc -42.88 -42.91	pan 120 Sweep	0.0 MHz 139 ms Filter -3 dB	CF Ste 12.00000 MH Auto Ma Freq Offs 0 H

# Band77\_40MHz\_CP\_QPSK\_1\_105\_MidCH656000

RL RL										
116	RF 50 Ω DC		Center	SENSE:INT Freq: 3.840000	000 GHz	ALIGN AU		dio Std: N	far 29, 2021	Frequency
PASS	Gate: LO	IFGain:L		ree Run : 30 dB			Ra	dio Devio	e: BTS	
10 dB/div	Ref Offset 15.3 Ref 30.00 dE									
20.0				8.7 dBm						Center Free
10.0	-44.7 dBc	-	1	s./ upm			-42.8	dBc		3.840000000 GH
0.00										0.0400000000
10.0										
20.0					/H					
30.0										
40.0										
50.0										
10000	egoing a providing a farm	ening lage and	energy owners (A	MARIA AR	~# H	imparte	norther for	anis way	MUL MAR	
60.0										
	.84000 GHz								0.0 MHz	CF Ster
Pac BW				VBW 160 ki	Hz			Sweep	139 ms	
Thes DW	51 kHz		#							12.000000 MH
		397 dBm/ 40		ACP-II	BW					
Total Ca	rrier Power 18.6					wer	U	pper		
Total Ca	rrier Power 18.6	97 dBm/ 40 Filter	.00 MHz Offset Freq	ACP-II	Lo dBc	dBm	dBc	dBm	Filter	Auto Ma
Total Ca Carrier P	rrier Power 18.6	Filter	00 MHz Offset Freq 40.00 MHz	ACP-II Integ BW 40.00 MHz	Lo dBc -44.73	dBm -26.04	dBc -42.81	dBm -24.11	Filter -3 dB	Auto Mai Freq Offse
Total Ca Carrier P	rrier Power 18.6 Power	Filter	Offset Freq 40.00 MHz 20.50 MHz	ACP-II Integ BW 40.00 MHz 1.000 MHz	Lo dBc -44.73 -60.75	dBm -26.04 -42.06	dBc -42.81 -41.97	dBm -24.11 -23.27	Filter -3 dB -3 dB	Auto Ma Freq Offse
Total Ca Carrier P	rrier Power 18.6 Power	Filter	00 MHz Offset Freq 40.00 MHz	ACP-II Integ BW 40.00 MHz	Lo dBc -44.73	dBm -26.04 -42.06	dBc -42.81	dBm -24.11	Filter -3 dB	Auto Mai Freq Offse
Total Ca Carrier P	rrier Power 18.6 Power	Filter	Offset Freq 40.00 MHz 20.50 MHz	ACP-II Integ BW 40.00 MHz 1.000 MHz	Lo dBc -44.73 -60.75	dBm -26.04 -42.06	dBc -42.81 -41.97	dBm -24.11 -23.27	Filter -3 dB -3 dB	
Total Ca Carrier P	rrier Power 18.6 Power	Filter	Offset Freq 40.00 MHz 20.50 MHz	ACP-II Integ BW 40.00 MHz 1.000 MHz	Lo dBc -44.73 -60.75	dBm -26.04 -42.06	dBc -42.81 -41.97	dBm -24.11 -23.27	Filter -3 dB -3 dB	Auto Ma Freq Offse
Total Ca Carrier P	rrier Power 18.6 Power	Filter	Offset Freq 40.00 MHz 20.50 MHz	ACP-II Integ BW 40.00 MHz 1.000 MHz	Lo dBc -44.73 -60.75	dBm -26.04 -42.06	dBc -42.81 -41.97	dBm -24.11 -23.27	Filter -3 dB -3 dB	Auto Ma Freq Offse

#### Band77\_40MHz\_CP\_QPSK\_1\_105\_HighCH664000

Keysight Spectrum Analyzer									
	10 Ω DC	Center F	vse:1NT req: 3.960000		ALIGN AUT		:33:44 PM M fio Std: N	far 29, 2021	Frequency
PASS Gate: LO	IFGain:Lo					Ra	lio Devic	e: BTS	
10 dB/div Ref 3	set 15.36 dB 0.00 dBm								
20.0		18.5	dBm						Center Free
10.0 -45.0	3 dBc 🚽	10.5	op:n	(#		-42.2	dBc		3.96000000 GH
0.00						-			
0.0						-	-		
0.0						-	-		
0.0									
0.0								PMS AV0	
a and the strength of the stre	mennersenses	yst-makesomath	(terd year vice		-ife-ite	inte/m	Normal And	- and the second	
Center 3.96000 GH Res BW 51 kHz	z	#VE	SW 160 kł	Hz				0.0 MHz 139 ms	CF Ste 12.000000 MH
Fotal Carrier Power	18.826 dBm/ 40.	00 MHz	ACP-I	BW					<u>Auto</u> Ma
				Lov			oper		
Carrier Power	Filter		Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offse
1 18.826 dBm / 4	0.00 MHz -3 dB		40.00 MHz 1.000 MHz		-26.73 -42.66		-23.37 -22.82	-3 dB -3 dB	01
			1.000 MHz			-41.05		-3 dB	
		21.00 1112	1.000 11112	-01.50	-12.01	-30.00	-00.00	-0 00	
a		· · · · · ·			ST	ATUS			L

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs	.com.tw	
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### Band77\_40MHz\_CP\_QPSK\_106\_0\_LowCH648000

Center Freq:         3.7200000 GHz         Radio Std: None         Frequ           PASS         Gase: LO         IFGaint.tow         #Atten: 30 dB         Radio Device: BTS           10 dBidely         Ref 30.00 dBm         IfGaint.tow         #Atten: 30 dB         Radio Device: BTS           10 dBidely         Ref 30.00 dBm         IfGaint.tow         IfGaint.tow         IfGaint.tow           10 dBidely         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow           10 dBidely         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow           10 dBidely         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow         IfGaint.tow <tr< th=""><th>6</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ım Analyzer - ACP</th><th></th></tr<>	6													ım Analyzer - ACP	
Bef Offset 15.36 dB         Centre 15.36 dB           10 dBld/w         Ref 30.00 dBm           206         19 10 dBm           207         42.6 dBc           208         19 10 dBm           209         42.6 dBc           209         42.6 dBc           209         41.2 dBc           209         41.2 dBc           209         41.2 dBc           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           209         90           200         90           201         90           202         90           203         90           204         90           205         90           205         90           205         90           205         90           205 <th>ency</th> <th>Frequenc</th> <th>ine</th> <th>Std: No</th> <th>dio Sta</th> <th>Ra</th> <th>LIGN AUT</th> <th></th> <th>0000 GI</th> <th>req: 3.72000 e Run</th> <th>Center F</th> <th></th> <th></th> <th>RF 50 Q</th> <th></th>	ency	Frequenc	ine	Std: No	dio Sta	Ra	LIGN AUT		0000 GI	req: 3.72000 e Run	Center F			RF 50 Q	
200         42.6 dBc         191 dBm         412 dBc         3.72000           100         42.6 dBc         191 dBm         412 dBc         3.72000           100         100         100         100         100         100           100						14						Gain:Low	15.36 dB		dB/div
Span 120.0 MHz         Span 120.0 MHz           Center 3.72000 GHz         #VBW 1.2 MHz         Span 120.0 MHz           Res BW 360 KHz         #VBW 1.2 MHz         Sweep 20 ms           Total Carrier Power         19.132 dBm/40.00 MHz         ACP-IBW           1         19.132 dBm/40.00 MHz         ACP-IBW           1         19.132 dBm/40.00 MHz         3 dB           200 Carrier Power         Filter         Offset Freq         Integ BW         dBc         dBm         dBc         53.94 - 34.81 - 34.81         Ster         Free		Center 3.720000000		c	2 dBc	-41.3		-		dBm	19.	-	lc .	-42.6 dB	1.0
Image: Second						-			141	1119-1 <b>8</b> 10	ببامانية مجمعه				.0
Center 3.72000 GHz         #VBW         1.2 MHz         Span 120.0 MHz         12.00           FRes BW         360 kHz         #VBW         1.2 MHz         Sweep 20 ms         12.000           Total Carrier Power         19.132 dBm/40.00 MHz         ACP-IBW         Lower         Upper         44d0           Carrier Power         Filter         Offset Freq         Integ BW         dBc         dBm         4Bc         dBm         Filter           1         19.132 dBm/4.000 MHz         -3.08         20.50 MHz         4265         -33.52         41.18         -22.05         -3.08           20.50 MHz         120.00 MHz         -3.98         -3.485         -5.394         -3.485         -3.04         -3.08				weyt	***	rnha	in shared	L,					Herman	henere and	10 10
Carrier Power         19.32 dbm 40.00 MHz         ACP-IBW         Lower         Upper           Carrier Power         Filter         Offset Freq         Integ BW         dBc         dBm         dBc         dBm         Filter           1         19.132 dBm / 40.00 MHz         -3.dB         40.00 MHz         42.05         -23.52         41.18         -22.05         -3.dB           20.50 MHz         10.00 MHz         43.65         -34.55 <th>CF Ste 000 MH Ma</th> <th>12.000000</th> <th>20 ms</th> <th></th> <th></th> <th>s</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>60 kHz</th> <th>enter 3.720 Res BW 30</th>	CF Ste 000 MH Ma	12.000000	20 ms			s								60 kHz	enter 3.720 Res BW 30
Carrier Power         Filter         Offset Freq         Inleg BW         dBc         dBm         dBc         dBm         Fre           1         19.132 dBm / 40.00 MHz         -3 dB         40.00 MHz         42.65         -23.52         41.18         -22.05         -3 dB           20.50 MHz         1000 MHz         53.98         -34.85         -34.85         -34.81         -3 dB	ma	Mato								ACP-	MHz	im/ 40.00 N	19.132 dBr	r Power	otal Carrier
1 19.132 dBm / 40.00 MHz -3 dB 40.00 MHz 40.00 MHz 42.65 -23.52 -41.18 -22.05 -3.dB 20.50 MHz 1.000 MHz -53.98 -34.85 -53.94 -34.81 -3.dB	- 05	Eron O	Filter							Integ DM	Heat Free	iter of	File	ar	arriar Dow
20.50 MHz 1.000 MHz -53.98 -34.85 -53.94 -34.81 -3 dB	0 H O	Frequ													
	UH												0 MITE -3 G	dom/ 40.00	1 19.132
SG STATUS						ATUS	ST/								1

# Band77\_40MHz\_CP\_QPSK\_106\_0\_MidCH656000

Keysight Spectrum Analyzer - ACP									
PASS Gate: LO				000 GHz	ALIGN AU	Ra	dio Std: N		Frequency
Ref Offset 15.38 10 dB/div Ref 30.00 dB	dB	HOLDEN. S	10 UD			R.		e. 013	
20.0 -41.9 dBc		19.	1 dBm	-		-40	9 dBc		Center Freq 3.84000000 GHz
-10.0		der freiheitet des	lal frencher and			+			
-30.0 -40.0 -50.0 -50.0	-spane b			k	yehan			RMS AVS	
Center 3.84000 GHz #Res BW 360 kHz		#VI	BW 1.2 MI	Hz		s		0.0 MHz 20 ms	CF Step 12.00000 MHz
Total Carrier Power 19.0	94 dBm/ 40.00	MHz	ACP-II						Auto Man
Carrier Power	Filter				wer		pper		-
		Offset Freq	Integ BW 40.00 MHz	dBc -41.91	dBm -22.82	dBc	dBm -21.83	-3 dB	Freq Offset
1 19.094 dBm / 40.00 MH			1.000 MHz	-41.91	-22.82			-3 dB -3 dB	0 Hz
			1.000 MHz	-54.97	-35.88			-3 dB	
MSG					ST	ATUS			

Band77 40MHz CP QPSK 106 0 HighCH664000

#### Std: None Freq Center Freq: 3. Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre -40.8 ¢ 9.8 dB Span 120.0 MHz Sweep 20 ms Center 3.96000 GHz #Res BW 360 kHz CF Ste #VBW 1.2 MHz 12.0 Total Carrier Power 18.757 dBm/ 40.00 MHz ACP-IBW Upper Lower Filter Freq Offse Integ BW 40.00 MHz dBm dBc dBm -22.09 -39.76 -21.00 40.00 MHz -40.84 -3 dB OН 20.50 MHz 1.000 MHz -53.75 -35.00 -53.49 -34.73 -3 dB 21.50 MHz 1.000 MHz -55.05 -36.30 -54.34 -35.58 -3 dB

# Band77\_40MHz\_DFT\_BPSK\_1\_0\_LowCH648000

Keysight Spectru										
RL	RF 50 Ω DC			Freg: 3.72000	0000 GHz	ALIGN AU		1:21:37 PM / dio Std: N	Mar 29, 2021	Frequency
ASS G	ate: LO	IFGain:Lo	Trig: Fi	ree Run			Rad	dio Devic	e: BTS	
0 dB/div	Ref Offset 15.36 Ref 30.00 dB									
20.0			27	3 dBm			_			Center Fre
0.0	-43.6 dBc	H.		.o ubm	H		-48.3	dBc		3.720000000 GH
00										
0.0										
0.0							_	_		
0.0										
	1									
0.0	(المحصورية أسريمية بالمراجع	we have	Widness Jung	A MARINA	Andrew	and the	44	4	Mar Barris	
0.0										
enter 3.720									0.0 MHz	CF Ste
Res BW 51	1 KHZ		#\	/BW 160 k	HZ		5	Sweep	139 ms	12.000000 M
otal Carrier	Power 22.3	40 dBm/ 40	00 MHz	ACP-I	BW					<u>Auto</u> M
					Lo	wer	U	pper		
Carrier Pow	•••	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 22.340	dBm / 40.00 MH	z -3 dB	40.00 MHz	40.00 MHz	-43.61	-21.27		-25.93	-3 dB	01
			20.50 MHz	1.000 MHz	-40.86		-64.19	-41.85	-3 dB	
			21.50 MHz	1.000 MHz	-59.82	-37.48	-64.20	-41.86	-3 dB	
			L							
10						ST	ATUS			

# Band77\_40MHz\_DFT\_BPSK\_1\_0\_MidCH656000

Keysight Spectrum Analyzer - ACP									- 6 🖬 👪
RL RF 50Ω	DC	Center	SENSE:INT Freq: 3.840000 ree Run	0000 GHz	ALIGN AU		3:26:44 PM 8 dio Std: N	far 29, 2021	Frequency
PASS Gate: LO	IFGain:Lo					Ra	dio Devic	e: BTS	
10 dB/div Ref 30.00									
20.0		22	2.1 dBm						Center Free
10.0 -44.1 dBc	:  ++			- #	-	-48.7	7 dBc		3.840000000 GH
0.00						-			
20.0	1								
30.0			_			-			
40.0					-	-			
50.0 Hameletrate	mound	MANIM	1 aground	horsenfung	NUM	1940,00	-	PMS AVG	
60.0	urminent	Manager	ill annound	horumlanda	n an	ine se	en hand	PMS AVS 132 <sup>4</sup> 4-1410	
00.0 (۱۹۹۳) Center 3.84000 GHz	www.anad		/BW 160 ki		-	S	pan 12	0.0 MHz 139 ms	12.000000 MH
Center 3.84000 GHz Res BW 51 kHz	22.140 dBm/ 40.0	#\		Hz	an the	S	pan 12	0.0 MHz	12.000000 MH
Center 3.84000 GHz #Res BW 51 kHz Total Carrier Power	22.140 dBm/ 40.0	<b>#\</b> 00 MHz	/BW 160 k	Hz BW	wer	S S U	pan 12	0.0 MHz 139 ms	12.000000 MH: Auto Mar
Center 3.84000 GHz Res BW 51 kHz Total Carrier Power	22.140 dBm/ 40.0 Filter	#\ 00 MHz Offset Freq	VBW 160 kl ACP-I	Hz BW dBc	wer dBm	U dBc	pan 12 Sweep pper dBm	6.0 MHz 139 ms Filter	Auto Mar
Center 3.84000 GHz Res BW 51 kHz	22.140 dBm/ 40.0 Filter	#\ 00 MHz Offset Freq 40.00 MHz	VBW 160 kl ACP-I Integ BW 40.00 MHz	Hz BW Lo dBc -44.13	dBm -21.99	U dBc -48.68	pan 12 Sweep pper dBm -26.54	Filter -3 dB	12.000000 MH
Center 3.84000 GHz Res BW 51 kHz Total Carrier Power	22.140 dBm/ 40.0 Filter	#\ 00 MHz Offset Freq	VBW 160 kl ACP-I	Hz BW Lo dBc -44.13	dBm -21.99	U dBc -48.68	pan 12 Sweep pper dBm -26.54	6.0 MHz 139 ms Filter	Lange CF Step 12.000000 MH Auto Mar Freq Offse
Center 3.84000 GHz Res BW 51 kHz Total Carrier Power	22.140 dBm/ 40.0 Filter	#\ 00 MHz Offset Freq 40.00 MHz	VBW 160 kl ACP-I Integ BW 40.00 MHz	Hz BW 	dBm -21.99 -20.28	U dBc -48.68	pan 12 Sweep pper 	Filter -3 dB	Lange CF Step 12.000000 MH Auto Mar Freq Offse
Center 3.84000 GHz Res BW 51 kHz Total Carrier Power	22.140 dBm/ 40.0 Filter	#N 00 MHz Offset Freq 40.00 MHz 20.50 MHz	VBW 160 k ACP-I Integ BW 40.00 MHz 1.000 MHz	Hz BW 	dBm -21.99 -20.28	U dBc -48.68 -64.72	pan 12 Sweep pper 	Filter -3 dB -3 dB	Lange CF Step 12.000000 MH Auto Mar Freq Offse

### Band77 40MHz DFT BPSK 1 0 HighCH664000

Keysight Spec	trum Analyzer - ACP RF 50 Ω DC		Center	ENSE:INT Freq: 3.960000	0000 GHz	ALIGN AUT		35:47 PM I lio Std: N	Mar 29, 2021	Frequency
PASS	Gate: LO	IFGain:Lo	Trig: Fr #Atten:				Rad	lio Devic	e: BTS	
10 dB/div	Ref Offset 15.36 Ref 30.00 dB									
20.0			21	6 dBm						Center Fre
10.0	-44.1 dBc			o opin			-47.6	dBc		3.96000000 GH
0.0										
0.0										
0.0										
									-	
so.o	ersen frankrighter and the second	in and	Mannapan	Durhand	warning	www	A sales	mark	wash	
0.0						1111	-			
	6000 GHz								0.0 MHz	CF Ste
Res BW	51 kHz		#V	BW 160 k	Hz		S	weep	139 ms	12.000000 MH
Fotal Carri	ier Power 21.5	76 dBm/ 40.	00 MHz	ACP-I	BW					Auto Ma
						wer		oper		
Carrier Po		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21.5	76 dBm / 40.00 MH	-3 dB	40.00 MHz	40.00 MHz	-44.11	-22.53 -		-25.99	-3 dB	01
			20.50 MHz 21.50 MHz	1.000 MHz 1.000 MHz	-41.87 -60.27	-20.30		-42.27	-3 dB -3 dB	
			21.50 MHZ	1.000 MHZ	-00.27	-30.70	-03.62	-92.20	-3 dB	
									I.	
									I I	1
G							TUS			

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# Band77\_40MHz\_DFT\_BPSK\_1\_105\_LowCH648000

	pectrum Analyzer - ACP									
RL	RF 50 Q C	x		SENSE:INT Freq: 3.720000	000 GHz	ALIGN AU		3:23:45 PM dio Std: 1	Mar 29, 2021	Frequency
	Gate: LO		Trig: F	ree Run	000 012					1
PASS		IFGain:Lo	w #Atten	: 30 dB			Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset 15 Ref 30.00 c									
20.0			-	1.9 dBm						Center Freq
10.0	-48.2 dBc	#	2	1.9 dBm			45.6	6 dBc		3.720000000 GHz
0.00										3.72000000 GHz
·10.0	_				- 14			-		
-20.0						-				
-30.0				_	- 11					
-40.0				-			_			
-50.0					11				RMS AVG	
-60.0	e-land-weighted an	unitadelinatesty.	and the start	na kanada kanayan		and the second	104124	elje <sup>ti</sup> ropo	بالبهلكاليدوده	
	3.72000 GHz V 51 kHz		#	VBW 160 k	Hz				0.0 MHz 139 ms	CF Step 12.000000 MHz
Total Ca	rrier Power 21	1.886 dBm/ 40.	00 MHz	ACP-I	BW					Auto Man
					Lo	wer	U	pper		
Carrier F	Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21	.886 dBm / 40.00 M	IHz -3 dB	40.00 MHz	40.00 MHz	-48.18	-26.29	-45.56	-23.67	-3 dB	0 Hz
			20.50 MHz	1.000 MHz	-63.91	-42.02	-44.53	-22.64	-3 dB	L
			21.50 MHz	1.000 MHz	-63.94	-42.05	-60.24	-38.36	-3 dB	
MSG			L			51	ATUS			L

#### Band77\_40MHz\_DFT\_BPSK\_1\_105\_MidCH656000

	pectrum Analyzer - AC									
PASS	RF 50 Ω Gate: LO		Center Trig: Fi	Freq: 3.840000	0000 GHz	ALIGN AU	Rad	tio Std: Mi		Frequency
10 dB/div	Ref Offset Ref 30.0		w #Atten	30 GB			Rat	IIO Devic	e: D13	
20.0 10.0	-47.6 dt	Bc +	21	.5 dBm	-		-45.3	dBc		Center Freq 3.84000000 GHz
-10.0 -20.0					-					
-30.0 -40.0 -50.0				Cambrashar					RMS AVG	
	.84000 GHz	ergelenenselenen d	le la constantina de la constantina de La constantina de la c	u shareta de	eγ I	and selfer		******	0.0 MHz	
	51 kHz		#\	/BW 160 k	Hz				139 ms	CF Step 12.000000 MHz
Total Ca	rrier Power	21.513 dBm/ 40.	00 MHz	ACP-I	BW					Auto Man
Carrier F	201107	Filter	Offset Freq	Integ BW	Lo dBc	dBm	U dBc	oper dBm	Filter	E
	.513 dBm / 40.0		40.00 MHz 20.50 MHz	40.00 MHz 1.000 MHz	-47.56 -63.57	-26.04		-23.80 -22.36	-3 dB -3 dB	Freq Offset 0 Hz
			21.50 MHz	1.000 MHz	-63.54		-59.58		-3 dB	
MSG						ST	ATUS			

Band77\_40MHz\_DFT\_BPSK\_1\_105\_HighCH664000

Keysight Spectrum Analyzer - ACP									
Gate: LO			inse:INT freq: 3.960000 le Run	000 GHz	ALIGN AU		:34:53 PM1 dio Std: N	Mar 29, 2021	Frequency
PASS	IFGain:Low					Rad	dio Devic	e: BTS	
10 dB/div Ref 30.00 d									
20.0		21	dBm						Center Freq
10.0 -47.8 dBc		21.	oobiii	<b>(</b> H		-43.6	dBc		3.960000000 GHz
0.00						_			
-10.0									
-20.0				<u>—</u> ИП					
-30.0				- (1		_			
-40.0						_			
-50.0								RMS AVG	
50.0 Walnut Allough Margh and	maching	hurthologue	ant was a set	W P	a contract	utan lau	and of the second	w. Blanks	
Center 3.96000 GHz									
#Res BW 51 kHz		#V	BW 160 ki	Hz				0.0 MHz 139 ms	CF Step 12.000000 MHz
Total Carrier Power 21	045 dBm/ 40.0	0 MHz	ACP-II	BW					<u>Auto</u> Man
				Lo	wer	U	oper		
Carrier Power		Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21.045 dBm / 40.00 M		40.00 MHz	40.00 MHz	-47.79	-26.74		-22.51	-3 dB	0 Hz
		20.50 MHz 21.50 MHz	1.000 MHz 1.000 MHz	-63.71 -63.71		-42.85 -59.80	-21.81 -38.75	-3 dB -3 dB	
		21.00 mm2	1.000 Minz	-03.71	-42.00	-08.00	-30.75	-5 00	
MSG	L				51	ATUS			

### Band77\_40MHz\_DFT\_BPSK\_100\_0\_LowCH648000



#### Band77\_40MHz\_DFT\_BPSK\_100\_0\_MidCH656000

	ectrum Analyzer - ACP									
RL	RF 50 Ω DC		Center	SENSE:INT Freq: 3.840000 ree Run	0000 GHz	ALIGN AU		io Std: N	far 29, 2021	Frequency
ASS	Gate: LO	IFGain:Lo					Rad	dio Devic	e: BTS	
0 dB/div	Ref Offset 15.36 Ref 30.00 dB									
0.0			2	1.6 dBm			_			Center Fre
0.0	-45.6 dBc		-	1.5 ODIN			-45.6	dBc		3.840000000 GH
			and states	encessing the same	hen III		_			
			· · · · ·	1	ч I, II					
10					<u>п</u> н					
						-	_			
									PMS AVO	
LO WERNA	ergenery asperande	Sandy Photos			1.14	thrown	Walnut	will state	Wallhall	
	- 1. I -					-				
1.0						-	-			
enter 3	84000 GHz					-	8	nan 12	0.0 MHz	
	360 kHz		#\	/BW 1.2 M	Hz				20 ms	CF Ste 12.000000 MH
otal Car	rier Power 21.5	74 dBm/ 40.0	0 MHz	ACP-II	BW					Auto M
					Lo	wer	U	pper		
arrier P		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21.	574 dBm / 40.00 MHz	-3 dB	40.00 MHz	40.00 MHz	-45.59		-45.62	-24.05	-3 dB	0
			20.50 MHz	1.000 MHz	-57.37	-35.80		-39.22	-3 dB	
			21.50 MHz	1.000 MHz	-60.00	-38.42	-61.26	-39.69	-3 dB	
3						ST	ATUS			

# Band77 40MHz DFT BPSK 100 0 HighCH664000

Keysight Spect	trum Analyzer - ACP RF 50 ດ DC			ENSE:INT		ALIGN AU	TO 03	:30:41 PM	Mar 29, 2021	
PASS	Gate: LO	IFGain:L	Center Trig: Fr	Freq: 3.960000 ee Run	000 GHz			dio Std: N dio Devic		Frequency
10 dB/div	Ref Offset 15.3 Ref 30.00 dE									
20.0	-45.9 dBc	-	21	.4 dBm			-44.8	dBc		Center Fre 3.960000000 GH
0.00				and the second	M		_			
30.0	hand a second	mande			4	www	mont	بهدالتهم	RMS AVC	
a.0	6000 CH2							non 12	0.0 MHz	
Res BW			#V	/BW 1.2 M	Hz				) 20 ms	CF Ste 12.000000 MH
Fotal Carrie	er Power 21.4	411 dBm/ 40	.00 MHz	ACP-II	BW					Auto Ma
						wer		pper		<u> </u>
Carrier Pov		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21.41	11 dBm / 40.00 MH	łz -3dB	40.00 MHz	40.00 MHz	-45.85	-24.44		-23.34	-3 dB	01
			20.50 MHz	1.000 MHz	-56.28	-34.86		-37.41	-3 dB	-
						-38.20		-38.98	-3 dB	
			21.50 MHz	1.000 MHz	-59.61	-30.20	-00.39	-50.50	0.00	

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# Band77\_60MHz\_CP\_QPSK\_1\_0\_LowCH648668

Keysight Spectrum Analyzer - A									
RL RF 501		Center Trig: F	SENSE:INT Freq: 3.730020 ree Run	0000 GHz	ALIGN AU	Ra	dio Std: N		Frequency
	IFGain:Lo et 15.36 dB 00 dBm	w #Atten	: 30 dB			Ra	dio Devic	e: BTS	
20.0 10.0 0.00	Bc -	15	9.4 dBm	-		43.5	5 dBc		Center Free 3.730020000 GH
-10.0									
-20.0 -20.0 -50.0 -50.0	nenniefeldelsen		()) preto professor	***	hanlative	99 <b>00</b> 1-10	14 <b>1-1</b> 4-14-14-14-14-14-14-14-14-14-14-14-14-14	RMS AVG	
Center 3.73002 GHz #Res BW 51 kHz		#\	/BW 160 k	Hz				0.0 MHz 08.5 ms	CF Ste 18.000000 MH
Total Carrier Power	19.394 dBm/ 60.	.00 MHz	ACP-I	BW					Auto Ma
				Lo	wer	U	pper		<u> </u>
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offse
1 19.394 dBm / 60.	00 MHz -3 dB	60.00 MHz	60.00 MHz	-40.05		-43.49	-24.10	-3 dB	0 H
		30.50 MHz	1.000 MHz	-39.11		-61.27		-3 dB	L
		31.50 MHz	1.000 MHz	-58.29	-38.89	-61.28	-41.89	-3 dB	
sa					ST	ATUS			

Band77\_60MHz\_CP\_QPSK\_1\_0\_MidCH656000

04:06:39 PM Mar 29 Radio Std: None Frequency Trig: Fi Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre -39.5 dB 43.8 dBc Span 180.0 MH er 3.84000 GHz CF Step Res BW 51 kHz #VBW 160 kHz eep 208.5 m 18.0 ACP-IBW Fotal Carrier P Lowe Upper Carrier Power Filter 
 dBm
 dBc
 dBm
 Filter

 -20.64
 -43.78
 -24.87
 -3 dB

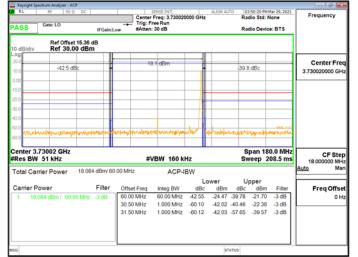
 -19.92
 -61.52
 -42.61
 -3 dB

 -39.35
 -61.53
 -42.63
 -3 dB
 Freq Offse Integ BW 60.00 MHz -39.54 60.00 MHz 0 H 30.50 MHz 1.000 MHz -38.82 -58.25 1.000 MHz

	Band	77_60N	1Hz_CP_	QPSK_	1_0_	High	ICH6	6333	84	
Keysight Spo R L	ectrum Analyzer - ACP RF 50 ฏ Di	c		SENSE: DNT Freg: 3.950010	000 GHz	ALIGN AU		:31:42 PM P dio Std: N	far 29, 2021	Frequency
PASS	Gate: LO	IFGain:L	Trig: F	ree Run	000 012			dio Devic		
10 dB/div	Ref Offset 15. Ref 30.00 d									
20.0			18	.3 dBm						Center Freq
10.0	-40.0 dBc	Ĩ			Ĩ		42.4	dBc		3.950010000 GHz
-10.0					_		_	_		
-20.0							-			
-40.0							-			
-50.0 -60.0	henry warring Paraget	maidente	Vopedaterano	farmenter the second	in allow	et. al de	9,210,494,9	**/471	4000-0100	
Center 3. #Res BW	95001 GHz		#\	/BW 160 k	Hz				0.0 MHz 08.5 ms	CF Step
		.349 dBm/ 60		ACP-I				cop z	00.0 1110	18.000000 MHz Auto Man
					Lo	wer	U	pper		
Carrier P	ower	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 18.3	349 dBm / 60.00 M	Hz -3 dB	60.00 MHz	60.00 MHz	-39.98		-42.44	-24.09	-3 dB	0 Hz
			30.50 MHz	1.000 MHz					-3 dB	
			31.50 MHz	1.000 MHz	-58.30	-39.95	-60.58	-42.23	-3 dB	
MSG						\$1	ATUS			

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### Band77\_60MHz\_CP\_QPSK\_1\_161\_LowCH648668



# Band77\_60MHz\_CP\_QPSK\_1\_161\_MidCH656000

	pectrum Analyzer - ACP									[ • ] # <b>E</b>
PASS	RF 50Ω Gate: LO	DC	Center Trig: F	SENSE:INT Freq: 3.840000 free Run : 30 dB	0000 GHz	ALIGN AU	Ra	dio Std: N		Frequency
10 dB/div	Ref Offset Ref 30.00									
20.0	-42.6 dB	c -	11	8.4 dBm	-		-40.9	dBc		Center Freq 3.840000000 GHz
-10.0 -20.0										
-30.0										
-60.0	sport, Attigorije felovant	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	hand company	monie	nhmð ha	Angerigan		eperson a		
	8.84000 GHz V 51 kHz		#	VBW 160 k	Hz				0.0 MHz 08.5 ms	18.000000 MHz
Total Ca	rrier Power	18.411 dBm/ 60.	00 MHz	ACP-I	BW					Auto Mar
	_					wer		pper		<u> </u>
Carrier I		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offse
1 18	8.411 dBm / 60.00	0 MHz -3 dB	60.00 MHz 30.50 MHz	60.00 MHz 1.000 MHz	-42.59 -60.50	-24.17		-22.44	-3 dB -3 dB	0 H
			30.50 MHz 31.50 MHz	1.000 MHz	-60.50		-40.20	-39.36	-3 dB	
			ST.SS WITZ	1.000 0012	-00.40	-12.00		-50.50	-0.00	
ISG						ST	ATUS			

### Band77 60MHz CP QPSK 1 161 HighCH663334

Keysight Spectrum Analyzer - A R.L. RF 50	CP 2 DC	Center F	INSE:1NT req: 3.950010	000 GHz	ALIGN AU		:33:00 PM M dio Std: N	tar 29, 2021	Frequency
Gate: LO	IFGain:L	ow #Atten:				Rad	dio Devic	e: BTS	
0 dB/div Ref 30.	t 15.36 dB 00 dBm								
20.0		19.	0 dBm	-			-		Center Fre
-44.0 c	BC			1		-40.7	dBc	_	3.950010000 GH
.00						-		_	
0.0					-	-		_	
0.0					-	-			
0.0								_	
0.0								_	
0.0	الم مستقاد وروم المالي	1.1.1	Lawrence	when he	Ward W	anumba	Annah	RMS AVE	
0.0									
enter 3.95001 GHz								0.0 MHz	CF Ste
Res BW 51 kHz		#V	BW 160 ki	lz		Sw	eep 2	08.5 ms	18.000000 MH
otal Carrier Power	18.968 dBm/ 60	.00 MHz	ACP-II	зw					<u>Auto</u> Ma
					wer		pper		
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offse
1 18.968 dBm / 60.	00 MHz -3 dB	60.00 MHz	60.00 MHz	-44.00	-25.03		-21.73	-3 dB	0 H
		30.50 MHz 31.50 MHz	1.000 MHz 1.000 MHz	-61.74		-40.15 -58.34	-21.18 -39.37	-3 dB -3 dB	
				-01.70	-42.02	-00.04	-38.31	-0 UD	
a					57	ATUS			

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# Band77\_60MHz\_CP\_QPSK\_162\_0\_LowCH648668

	IFGain:L et 15.36 dB .00 dBm	Trig: F ow #Atten	SENSE:INT Freq: 3.730020 ree Run : 30 dB	0000 GHz	ALIGN AU	Ra	dio Std: M dio Devic		Frequency
10 dB/div Ref Offs Log 20.0 10.0 .00	et 15.36 dB .00 dBm								
20.0 10.0 0.00	dBc	1	8.7 dBm						
				-		-39.3	dBc		Center Free 3.730020000 GHz
-20.0			لية العريمية الم	<b>****</b> *		-			
-30.0 -40.0 -50.0 -60.0	oniyaariyadariyadariya				1099-uru	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ervilges deb	RMS AVS	
Center 3.73002 GHz #Res BW 360 kHz			VBW 1.2 M	Hz		S		0.0 MHz 20 ms	CF Step 18.000000 MH: Auto Mar
Total Carrier Power	18.680 dBm/ 60	.00 MHz	ACP-I						Auto Mar
Carrier Power	Filter	04-15-19	DIM		ower		pper	Filter	E
1 18.680 dBm / 60		Offset Freq 60.00 MHz	Integ BW 60.00 MHz	dBc -40.07	dBm -21.39	dBc	dBm -20.64	-3 dB	Freq Offsel
1 18.080 dBm7 60	.00 MHZ -3 GB	30.50 MHz	1.000 MHz	-53.05	-34.37		-34.68	-3 dB	1 043
		31.50 MHz	1.000 MHz		-35.64			-3 dB	
vsg		۲ <b>ـــــ</b>			ST	ATUS			

# Band77\_60MHz\_CP\_QPSK\_162\_0\_MidCH656000

Keysight Spectrum										
	8F   50 Ω DC   Ne: LO		Center F Trig: Fre		000 GHz	ALIGN AUT	Rad	lio Std: N		Frequency
10 dB/div	Ref Offset 15.36 Ref 30.00 dBr		#Atten: 3	IO dB			Rac	lio Devic	e: BTS	
20.0	-40.8 dBc		18.6	dBm	-		-39.6	dBc		Center Freq 3.840000000 GHz
-10.0				lagach derby	7****		-			
-20.0 -30.0 -40.0						Mana			RMS AVC	
-50.0	entrest about pro	*****			1	Monager	(1994-1981)	-44.68	W <sup>a</sup> rdellard	
Center 3.840 #Res BW 36			#VI	BW 1.2 M	Hz				0.0 MHz 20 ms	CF Step 18.000000 MHz
Total Carrier	Power 18.58	0 dBm/ 60.00	MHz	ACP-II	BW					Auto Man
						wer		oper		
Carrier Powe			offset Freq	Integ BW 60.00 MHz	dBc -40.80	dBm	dBc	dBm	-3 dB	Freq Offset
1 18.580	dBm / 60.00 MHz		0.00 MHZ 0.50 MHZ	1.000 MHz	-40.80	-22.22 -		-21.01	-3 dB	0 Hz
				1.000 MHz	-54.72			-35.81	-3 dB	
MSG						STA	TUS			

Band77 60MHz CP QPSK 162 0 HighCH663334

#### Std: None Freq Cer Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre -40.9 0 9.6 dB 001000 Span 180.0 MHz Sweep 20 ms Center 3.95001 GHz #Res BW 360 kHz CF Ste #VBW 1.2 MHz 18 Total Carrier Power 18.419 dBm/ 60.00 MHz ACP-IBW Upper Lowe Freq Offse Integ BW 60.00 MHz dBm dBc -22.50 -39.59 dBm -21.17 60.00 MHz -40.92 -3 dB OН -35.85 -54.43 30.50 MHz 1.000 MHz -54.27 -36.01 -3 dB 31.50 MHz 1.000 MHz -55.94 -37.52 -55.65 -37.23 -3 dB

### Band77\_60MHz\_DFT\_BPSK\_1\_0\_LowCH648668

RL RF 50 0									
6	2 DC	Center Trig: F	Freq: 3.730020 ree Run	000 GHz	ALIGN AU	Ra	dio Std: N		Frequency
ASS	IFGain:Lo t 15.36 dB	#Atten:	30 dB			Ra	dio Devic	e: BTS	
0.0		21	.5 dBm	-					Center Fre
0.0 -39.8 d	BC I			Ĩ		-45.7	dBc		3.730020000 GF
0.0				-		_	_		
0.0							-		
0.0					-	-			
Strathing with the book of the	And mother	Historytheophy	and the second second second	a gana and	war-pas	مه و والهدا	ومقدروري	and the store	
0.0					-				
enter 3.73002 GHz			/BW 160 ki					0.0 MHz 08.5 ms	1 CF 510
enter 3.73002 GHz Res BW 51 kHz	21.478 dBm/ 60.	#\		łz					18.000000 Mi
enter 3.73002 GHz Res BW 51 kHz 'otal Carrier Power	21.478 dBm/ 60.	#\ 00 MHz	/BW 160 kl	HZ BW Lo	wer	Sv	pper	08.5 ms	18.000000 Mi Auto Mi
enter 3.73002 GHz Res BW 51 kHz Total Carrier Power Carrier Power	21.478 dBm/ 60. Filter	#\ 00 MHz Offset Freq	/BW 160 ki ACP-II	Hz BW Lo dBc	dBm	Sw U dBc	pper dBm	08.5 ms	18.000000 Mi Auto Mi Freq Offs
enter 3.73002 GHz Res BW 51 kHz	21.478 dBm/ 60. Filter	#\ 00 MHz Offset Freq 60.00 MHz	/BW 160 ki ACP-II Integ BW 60.00 MHz	Hz BW Lo dBc -39.80	dBm -18.33	U dBc -45.71	pper dBm -24.23	Filter	18.000000 Mi Auto Mi Freq Offs
Center 3.73002 GHz Res BW 51 kHz Total Carrier Power Carrier Power	21.478 dBm/ 60. Filter	#\ 00 MHz 0ffset Freq 60.00 MHz 30.50 MHz	/BW 160 kl ACP-II Integ BW 60.00 MHz 1.000 MHz	Hz BW Lo -39.80 -37.50	dBm -18.33 -16.02	U dBc -45.71 -63.35	pper dBm -24.23 -41.87	Filter -3 dB -3 dB	18.000000 Mi Auto Mi Freq Offs
Center 3.73002 GHz Res BW 51 kHz Total Carrier Power Carrier Power	21.478 dBm/ 60. Filter	#\ 00 MHz Offset Freq 60.00 MHz	/BW 160 ki ACP-II Integ BW 60.00 MHz	Hz BW Lo dBc -39.80	dBm -18.33 -16.02	U dBc -45.71	pper dBm -24.23 -41.87	Filter	18.00000 Mi

# Band77\_60MHz\_DFT\_BPSK\_1\_0\_MidCH656000

Keysight Spectrum Analyzer - AO									- 6
RL RF 50Ω	DC	Center Trig: Fr		000 GHz	ALIGN AU		dio Std: N	Mar 29, 2021	Frequency
Ref Offset	IFGain:Low 15.36 dB	#Atten:	30 dB			Ra	dio Devic	e: BTS	
0 dB/div Ref 30.0 .og 20.0 -40.7 dB		21	2 dBm	-		45.9	dBc		Center Fre 3.840000000 GH
0.0									3.84000000 GP
0.0									
0.0		1 4.1						RMS AVC	
0.0 0.0	olar-radionaria int	a de mai contra de la contra de La contra de la contra	and the second sec	Kenne Maria	Kradining				
enter 3.84000 GHz Res BW 51 kHz		#V	'BW 160 ki	Hz				0.0 MHz 08.5 ms	CF Ste 18.000000 MH
otal Carrier Power	21.152 dBm/ 60.00	MHz	ACP-II						Auto Ma
Carrier Power	Filter	offset Freq	Integ BW	dBc	dBm	dBc	pper dBm	Filter	Freq Offs
1 21.152 dBm / 60.0		0.00 MHz	60.00 MHz	-40.68	-19.53		-24.80	-3 dB	requis
1 21.152 dBm/ 60.0		0.00 MHz	1.000 MHz	-40.00		-45.95		-3 dB	
		1.50 MHz	1.000 MHz			-63.81		-3 dB	
G	L				ST.	ATUS			

### Band77 60MHz DFT BPSK 1 0 HighCH663334

Keysight Spectrum Analyzer - RL RF 5	ACP DC	Center Fi	NSE:INT req: 3.950010	000 GHz	ALIGN AU		:38:31 PM M dio Std: N	tar 29, 2021	Frequency
Gate: LO	IFGain:L	Trig: Fre #Atten: 3				Rad	dio Devic	e: BTS	
10 dB/div Ref 30	et 15.36 dB .00 dBm								
og 20.0		20.8	dBm	-					Center Fre
-41.8	dBc -			1		-45.1	dBc	_	3.950010000 GH
0.00					-	-			
0.0					-	-	-		
0.0						-	-	_	
0.0									
0.0								RMS AVO	
0.0 Artifratelan Soeperation	hand	Nelstrianterior	kan serietan	every.	(Uning	unarticity	nto set al	territarily	
enter 3.95001 GHz Res BW 51 kHz	:	#VE	3W 160 KH	Hz				0.0 MHz 08.5 ms	CF Ste 18.000000 MH
otal Carrier Power	20.790 dBm/ 60	.00 MHz	ACP-I	BW					Auto Ma
					wer		pper		
Carrier Power	Filter		Integ BW 60.00 MHz	dBc -41.76	dBm -20.97	dBc	dBm -24.28	-3 dB	FreqOffs
1 20.790 dBm / 6	.00 MHZ -3 dB		1.000 MHz	-41.70	-20.97		-24.20	-3 dB	01
			1.000 MHz	-59.49		-63.01	-42.22	-3 dB	
a					57	ATUS			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Band77\_60MHz\_DFT\_BPSK\_1\_161\_LowCH648668

	pectrum Analyzer - ACP									
RL	RF 50 Q	DC	Cente	SENSE:INT	000 GH+	ALIGN AU		1:53:17 PM1 dio Std: N	Mar 29, 2021	Frequency
PASS	Gate: LO	IFGain:L	Trig:	Free Run n: 30 dB	000 012			dio Devic		
10 dB/div	Ref Offset 1 Ref 30.00									
20.0		-	-	21.3 dBm						Center Fred
10.0	-45.9 dBc	1					-43.1	dBc		3.730020000 GHz
0.00						-	-	-		
-10.0										
-30.0										
-40.0							_			
-50.0	hound campolian			when have been	ded to	Junk	بالما	amoint	RMS AVC	
-60.0	differ and the second					1. 49.4			C Malazar .	
Center 3 #Res BW	.73002 GHz / 51 kHz		. #	VBW 160 k	Hz				0.0 MHz 08.5 ms	CF Step 18.000000 MHz
Total Ca	rrier Power	21.270 dBm/ 60	00 MHz	ACP-I	BW					Auto Man
					Lo	wer	U	pper		
Carrier F		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	FreqOffset
1 21	270 dBm / 60.00	MHz -3 dB	60.00 MHz	60.00 MHz	-45.87		-43.12	-21.85	-3 dB	0 Hz
			30.50 MHz	1.000 MHz	-63.29		-41.99		-3 dB	
			31.50 MHz	1.000 MHz	-63.28	-42.01	-58.60	-37.33	-3 dB	
MSG			L			51	ATUS			

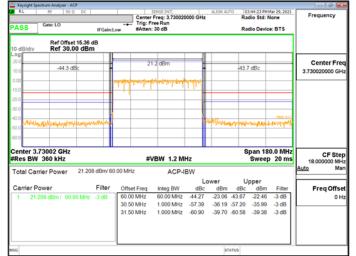
#### Band77\_60MHz\_DFT\_BPSK\_1\_161\_MidCH656000

	pectrum Analyzer - ACI									
CO RL	RF 50 Ω	DC		SENSE:INT Freq: 3.840000 Free Run	0000 GHz	ALIGN AU		dio Std: N	Mar 29, 2021	Frequency
PASS	Gale: LO	IFGain:L		: 30 dB			Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset Ref 30.0									
20.0			-	1.5 dBm			_			Center Freq
10.0	-45.7 dB	c –		1.5 0011			-43.0	dBc		3.840000000 GHz
0.00							_			
-10.0							_			
-20.0										
-30.0										
-40.0										
60.0				1					-	
-60.0	المجرحة بالجزيمج بقانا	and the second second	Noniewscheinstein	on winnyan	whend to	Approvedies	antesta	erne gere	1.487, P.44	
-00.0										
	.84000 GHz		#	VBW 160 k	Hz				0.0 MHz 08.5 ms	CF Step 18.00000 MHz
Total Ca	rrier Power	21.520 dBm/ 60	00 MHz	ACP-I	RW					Auto Man
10101 00				A01-1		wer		pper		
Carrier F	Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21	.520 dBm / 60.0	0 MHz -3 dB	60.00 MHz	60.00 MHz	-45.74	-24.22	-43.01	-21.49	-3 dB	0 Hz
			30.50 MHz	1.000 MHz	-63.60	-42.08	-41.30	-19.78	-3 dB	
			31.50 MHz	1.000 MHz	-63.61	-42.09	-60.13	-38.61	-3 dB	
L										
MSG						ST	ATUS			

Band77\_60MHz\_DFT\_BPSK\_1\_161\_HighCH663334

🔤 Keysight Spec	trum Analyzer - ACP									
CO RL		oc	Center	Freq: 3.950010	0000 GHz	ALIGN AU		:36:11 PMI dio Std: N	lar 29, 2021	Frequency
PASS	Gate: LO	IFGain:Lo	w #Atten:				Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset 15 Ref 30.00 d									
20.0			21	6 dBm	$\rightarrow$					Center Freq
10.0	-46.6 dBc	1			1		-42.4	dBc		3.950010000 GHz
0.00										
-10.0					- (+	-	-	-		
-20.0						-	-	-		
-30.0							-			
-40.0						-	-	-	RMS AVG	
-50.0	an mound	man	us in registering	al walder	what h	الالمبلام	Wousty	interne		
-60.0										
Center 3.9 #Res BW			#\	/BW 160 k	H7				0.0 MHz 08.5 ms	CF Step
Total Carri		1.563 dBm/ 60		ACP-I				reep z	00.0 1113	18.000000 MHz Auto Man
Total Gall	errower -		0011112	ACES		wer	U	pper		
Carrier Po	wer	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21.5	63 dBm / 60.00 M	lHz -3 dB	60.00 MHz	60.00 MHz	-46.64		-42.39	-20.83	-3 dB	0 Hz
			30.50 MHz 31.50 MHz	1.000 MHz 1.000 MHz	-64.37 -64.39		-41.09 -58.81		-3 dB -3 dB	
			31.50 MPIZ	1.000 MHz	-04.39	-42.03	-36.61	-31.25	-3 08	
MSG			L			ST	ATUS			

# Band77\_60MHz\_DFT\_BPSK\_162\_0\_LowCH648668



# Band77\_60MHz\_DFT\_BPSK\_162\_0\_MidCH656000

	pectrum Analyzer - ACP									
RL		ic	Center	SENSE:INT Freq: 3.840000 ree Run	0000 GHz	ALIGN AU		il2:17 PM M dio Std: N	far 29, 2021	Frequency
ASS	Gate: LO	IFGain:Lo					Rad	dio Devic	e: BTS	
dB/div	Ref Offset 15 Ref 30.00 c									
9			2	1.1 dBm						Center Fr
	-44.4 dBc		-		- +		-44.0	dBc		3.840000000 G
x				to a married	date		_			
o			1.1	a sector of the	1.1.1		_			
			_							
				_			_			
0	-			_					RMS AVO	
0	ol-Blochastryla, and	a wat the same			n	والمجارفتهم	eller aller	Handappi	un de seu des	
0										
	.84000 GHz / 360 kHz		#\	/BW 1.2 M	Hz				0.0 MHz 20 ms	CF St 18.000000 M
otal Ca	rrier Power 21	1.077 dBm/ 60.	00 MHz	ACP-I	BW					Auto M
						wer		pper		
arrier F		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21	.077 dBm / 60.00 N	Hz -3 dB	60.00 MHz	60.00 MHz	-44.43	-23.36		-22.91	-3 dB	•
			30.50 MHz 31.50 MHz	1.000 MHz 1.000 MHz	-58.03 -61.30	-36.96 -40.23		-36.13 -39.70	-3 dB -3 dB	
			31.50 MHZ	1.000 MPI2	-01.30	-40.23	-00.11	-39.70	-0 dB	
							_			
1						ST	ATUS			

### Band77 60MHz DFT BPSK 162 0 HighCH663334

RL R≠ 50 Ω DC	IFGain:Lo	Center I Trig: Fr		000 GHz	ALIGN AUT	Radi	13:21 PM M io Std: N io Device		Frequency
Ref Offset 15.36 Ref 30.00 dB									
-09 20.0 10.0 -44.7 dBc		20	8 dBm	-		-43.3	dBc		Center Fre 3.950010000 GH
0.00	n	hiperio das	the states and the second	170					
80.0							-		
00 0 00 0 0000000000000000000000000000	peplerostilit			- Nu	nt goriant	why well	Harage Harris	and and Angh program	
						_			
		#V	'BW 1.2 M	Hz				0.0 MHz 20 ms	CF Sto 18.000000 M
Res BW 360 kHz	51 dBm/ 60.0		BW 1.2 M						CF Ste 18.000000 M <u>Auto</u> M
Res BW 360 kHz Total Carrier Power 20.75		00 MHz	ACP-II	BW	wer	Up	Sweep	20 ms	18.000000 M <u>Auto</u> M
Res BW 360 kHz Total Carrier Power 20.75 Carrier Power	Filter	00 MHz Offset Freq	ACP-II	BW Lo dBc	dBm	Up	Sweep per dBm	20 ms	18.000000 M Auto M Freq Offs
Res BW 360 kHz Total Carrier Power 20.75	Filter	00 MHz Offset Freq 60.00 MHz	ACP-II Integ BW 60.00 MHz	BW Lo dBc -44.66	dBm -23.91	Up dBc -43.27	per dBm -22.52	Filter -3 dB	18.000000 M Auto M Freq Offs
Carrier Power	Filter	00 MHz Offset Freq 60.00 MHz 30.50 MHz	ACP-II Integ BW 60.00 MHz 1.000 MHz	BW dBc -44.66 -57.56	dBm -23.91 -36.81	Up dBc -43.27 -57.10	per dBm -22.52 -36.35	Filter -3 dB -3 dB	18.000000 M
Res BW 360 kHz Total Carrier Power 20.75 Carrier Power	Filter	00 MHz Offset Freq 60.00 MHz	ACP-II Integ BW 60.00 MHz	BW Lo dBc -44.66	dBm -23.91	Up dBc -43.27 -57.10	per dBm -22.52 -36.35	Filter -3 dB	18.000000 M Auto M Freq Offs

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台灣檢驗科技股份有限公司	ad, New Taipei Industrial Park, Wuku District, New Taipei City f (886-2) 2298-0488	n, Taiwan/新北市五股區新北產業園區五工路 134 號 WWW.Sgs.com.tw
		Member of SGS Group



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# Band77\_80MHz\_CP\_QPSK\_1\_0\_LowCH649334

	pectrum Analyzer - ACP									
RL	RF 50 Ω	DC	Cen	SENSE:INT ter Freq: 3.740010	0000 GHz	ALIGN AU		1:51:11 PM dio Std: 1	Mar 29, 2021 None	Frequency
PASS	Gate: LO	IFGain:L	Trig	: Free Run en: 30 dB			Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset Ref 30.00									
20.0		-		19.7 dBm	_					Center Free
10.0	-41.3 dB	:		19.7 ODm	-	_	-42.5	dBc		3.740010000 GHz
0.00						-	-			
-10.0										
-30.0								_		
-40.0				-						
-50.0	water	meterdari	Viladiator	an in the second		a starter		وسعروست	RMG AVG	
-60.0	obtooler, tool, an		1					1.41.44	A 1 941-14	
Center 3 #Res BW	.7400 GHz / 51 kHz			#VBW 160 k	Hz				0.0 MHz 278 ms	CF Step 24.000000 MHz
Total Ca	rrier Power	19.720 dBm/ 80	.00 MHz	ACP-I	BW					Auto Man
					Lo	ower	U	pper		
Carrier F		Filter	Offset Free		dBc	dBm	dBc	dBm	Filter	Freq Offse
1 19	.720 dBm / 80.00	MHz -3 dB	80.00 MHz		-41.29		-42.87	-23.15	-3 dB	0 Hz
			40.50 MHz				-61.64		-3 dB	
			41.50 MHz	1.000 MHz	-58.63	-38.91	-61.67	-41.95	-3 dB	
MSG						51	TATUS			L

05:09:30 PM Mar 29 Radio Std: None Frequency Trig: F Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre 42.2 dBc -40.1 dE Span 240.0 MHz Sween 278 m Center 3.8400 Gr #Res BW 51 kHz er 3.8400 GHz CF Step #VBW 160 kHz veep 278 ms 24.0 18 52 ACP-IBW Total Car Lowe Uppe Carrier Power Filter Freq Offse Offset Free 80.00 MHz Integ BW 80.00 MHz dBm dBc dBm -21.56 -42.17 -23.64 -3 dB -40.09 0 H 40.50 MHz 1.000 MHz -42.46 -23.94 -61.19 -42.66 -39.28 -61.19 -42.66 -3 dB -3 dB 41.50 MHz 1.000 MHz

Band77\_80MHz\_CP\_QPSK\_1\_0\_MidCH656000

	Band7	7_80MI	Hz_CP_	QPSK_	1_0_	High	CH6	6266	58	
Keysight Spe R L	ectrum Analyzer - ACP RF 50 ฏ DC			ENSE:INT		ALIGN AU			Mar 29, 2021	Frequency
PASS	Gate: LO		Trig: Fr		000 GHz			dio Std: M		, request,
10 dB/div	Ref Offset 15.36 Ref 30.00 dB		#Atten:	30 GD			ка	dio Devic	e: D13	
20.0	-41.0 dBc		19	1 dBm			-41.9	e dBc		Center Freq 3.940020000 GHz
0.00 -10.0 -20.0							+			
-20.0										
-50.0 -60.0	restance of the first of the	edudos h	www.	harmon	ويعيد وحدي	<b>Y</b> angtike	mar		RMS AVC Alektricity	
Center 3. #Res BW			#\	/BW 160 k	Hz				0.0 MHz 278 ms	CF Step 24.000000 MHz
Total Car	rier Power 19.08	9 dBm/ 80.00	) MHz	ACP-I	BW					Auto Man
		Filter				wer		pper		
Carrier P	ower )89 dBm / 80.00 MHz		Offset Freq 80.00 MHz	Integ BW 80.00 MHz	dBc -41.03	dBm -21.94	dBc	dBm -22.85	-3 dB	Freq Offset 0 Hz
1 19.0	769 GBm / 80.00 MHZ		40.50 MHz	1.000 MHz					-3 dB	0 Hz
			41.50 MHz	1.000 MHz					-3 dB	
MSG						ST	ATUS			

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### Band77\_80MHz\_CP\_QPSK\_1\_216\_LowCH649334

RL RL		DC		SENSE:1NT		ALIGN AU	TO 04	:55:04 PM N	tar 29, 2021	-
				Freq: 3.740010 ree Run	000 GHz		Rad	dio Std: N	lone	Frequency
ASS	Gate: LO	IFGain:L					Rad	dio Devic	e: BTS	
) d <u>B/div</u>	Ref Offset 1 Ref 30.00									
0.0		-	13	7.8 dBm	_					Center Fre
0.0	-41.2 dBc			.o doin	-		-38.9	dBc		3.740010000 GH
					1					
10										
					1.1					
-dbb.b	radial diseases and the state	anter de la compañía	and the state of the	-	nd h	hermon	-		-	
-dbb.b	*****	rubybegane destra	مروانهمج افار <sub>ا</sub> دامهم	a general management	onder to	herber	mens	nopopulas	2016 AVG	
0.0 <mark>MMM</mark>	3.7400 GHz	rubyb <b>e</b> ne doiteo	مرواري مود و الرواري و الواري و الواري و الواري و الو	ayoahaajing	mhr h	herber			0.0 MHz	05.04
enter 3		rederfotoere destre		/BW 160 ki		herten	s	pan 24		1 CF 50
enter 3 Res BV	3.7400 GHz № 51 kHz	17.760 dBm/ 80	#1		Hz	hortown	s	pan 24	0.0 MHz	24.000000 M
enter 3 Res BV	3.7400 GHz N 51 kHz arrier Power	17.760 dBm/ 80	#1	/BW 160 ki	Hz BW	wer	S	pan 24	0.0 MHz	24.000000 Mi Auto Mi
enter 3 Res BV otal Ca	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#N .00 MHz Offset Freq	/BW 160 kl ACP-II	Hz BW dBc	wer dBm	Si Si Ul dBc	pan 240 Sweep	0.0 MHz 278 ms	24.000000 M Auto M Freq Offs
enter 3 Res BV Total Ca	3.7400 GHz N 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 .00 MHz Offset Freq 80.00 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz	Hz BW Lc dBc -41.19	wer dBm -23.43	U dBc -38.89	pan 240 Sweep oper dBm -21.13	0.0 MHz 278 ms Filter -3 dB	24.000000 Mi Auto Mi Freq Offs
enter 3 Res BV Total Ca	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 00 MHz Offset Freq 80.00 MHz 40.50 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz 1.000 MHz	Hz BW Lo _dBc _41.19 _59.74	dBm -23.43 -41.98	Uj dBc -38.89 -40.32	pan 240 Sweep oper dBm -21.13 -22.56	Filter -3 dB -3 dB	24.000000 Mi Auto Mi Freq Offs
enter 3 Res BV Total Ca	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 .00 MHz Offset Freq 80.00 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz	Hz BW Lo _dBc _41.19 _59.74	dBm -23.43 -41.98	U dBc -38.89	pan 240 Sweep oper dBm -21.13	0.0 MHz 278 ms Filter -3 dB	24.000000 Mi Auto Mi Freq Offs
Res BV otal Ca Carrier I	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 00 MHz Offset Freq 80.00 MHz 40.50 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz 1.000 MHz	Hz BW Lo _dBc _41.19 _59.74	dBm -23.43 -41.98	Uj dBc -38.89 -40.32	pan 240 Sweep oper dBm -21.13 -22.56	Filter -3 dB -3 dB	24.000000 Mi
enter 3 Res BV otal Ca	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 00 MHz Offset Freq 80.00 MHz 40.50 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz 1.000 MHz	Hz BW Lo _dBc _41.19 _59.74	dBm -23.43 -41.98	Uj dBc -38.89 -40.32	pan 240 Sweep oper dBm -21.13 -22.56	Filter -3 dB -3 dB	24.000000 Mi Auto Mi Freq Offs
enter 3 Res BV otal Ca	3.7400 GHz W 51 kHz arrier Power	17.760 dBm/ 80 Filter	#1 00 MHz Offset Freq 80.00 MHz 40.50 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz 1.000 MHz	Hz BW Lo _dBc _41.19 _59.74	dBm -23.43 -41.98	Uj dBc -38.89 -40.32	pan 240 Sweep oper dBm -21.13 -22.56	Filter -3 dB -3 dB	24.000000 Mi Auto Mi Freq Offs

# Band77\_80MHz\_CP\_QPSK\_1\_216\_MidCH656000

	pectrum Analyzer - ACP									(•_) # <b> </b> #
UN RL	RF 50Ω	DC	Center F Trig: Fre		0000 GHz	ALIGN AU	Rad	dio Std: N		Frequency
PASS		IFGain:Lo	w #Atten:	30 dB			Rad	dio Devio	e: BTS	
10 dB/div	Ref Offset 1 Ref 30.00									
20.0			18	4 dBm						Center Freq
10.0	-41.4 dBc		107	4 ODIII	-		-40.3	dBc		3.840000000 GHz
0.00					-		_			
-10.0							_			
-20.0										
-30.0						-	_			
-40.0							_			
-50.0					1.1	L			FMG AVO	
-60.0	and the second second second	- marine	weither of the Inner	and the second of	naw n	entine	4,0endu	vanable	10-01-040	
	.8400 GHz 51 kHz		#V	BW 160 k	Hz				0.0 MHz 278 ms	CF Step 24.000000 MHz
		8.434 dBm/ 80		ACP-I						Auto Man
i otal Ca	iner Power	0.101 00.11 00.		ACES		wer	1.6	oper		
Carrier F	Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 18	.434 dBm / 80.00	MHz -3 dB	80.00 MHz	80.00 MHz	-41.39	-22.95		-21.82	-3 dB	0 Hz
			40.50 MHz	1.000 MHz	-60.52	-42.09		-23.94	-3 dB	
			41.50 MHz	1.000 MHz	-60.51	-42.07	-58.31	-39.87	-3 dB	
									- 1	
									- 1	
L										
MSG						ST	ATUS			

### Band77\_80MHz\_CP\_QPSK\_1\_216\_HighCH662668

RL RL	RF 50 Ω DC		Center	ENSE:INT Freq: 3.940020		ALIGN AJ		:30:15 PM M dio Std: N	tar 29, 2021 Ione	Frequency
PASS	Gate: LO	IFGain:L					Rad	dio Devic	e: BTS	
10 dB/div	Ref Offset 15.3 Ref 30.00 dE									
.0g 20.0	-41.3 dBc		17	.9 dBm			-39.5	dBc		Center Fre 3.940020000 GH
2.00										3.340020000 GH
0.0										
0.0					-		_			
0.0										
0.0							-			
0.0	Non-Manual Acade		والعرفية والمراجع	ed un cambre	اليو أسلب	heart	manash		SMS AVE	
Martin .	aline for the second	~~###~~~~	anaria an-armadu	www.	when the	-san-t	monantu	****	RMS AVG	
enter 3	.9400 GHz					reactiv	S	pan 24	D.0 MHz	
enter 3				/BW 160 ki		rannik	S	pan 24	0.0 MHz 278 ms	24.000000 MH
enter 3 Res BW	.9400 GHz / 51 kHz	94 dBm/ 80	#\		Hz	rearrite	S	pan 24		24.000000 MH
enter 3 Res BW	.9400 GHz / 51 kHz rrier Power 17.8	194 dBm/ 80	#\	/BW 160 kl	Hz BW Lov	wer	Si Si	pan 240 Sweep	278 ms	24.000000 MH Auto Ma
enter 3 Res BW fotal Ca	.9400 GHz 7 51 kHz rrier Power 17.8 Power	94 dBm/ 80 Filter	#\ .00 MHz Offset Freq	ACP-II	Hz BW Lov dBc	wer dBm	S S U dBc	pan 240 Sweep	278 ms	24.000000 MF Auto Ma
enter 3 Res BW Total Ca	.9400 GHz / 51 kHz rrier Power 17.8	94 dBm/ 80 Filter	.00 MHz Offset Freq 80.00 MHz	ACP-II Integ BW 80.00 MHz	Hz BW dBc -41.33	wer dBm -23.43	U dBc -39.53	pan 244 Sweep oper dBm -21.64	Filter	24.000000 MF Auto Ma
enter 3 Res BW Fotal Ca	.9400 GHz 7 51 kHz rrier Power 17.8 Power	94 dBm/ 80 Filter	#\ .00 MHz Offset Freq 80.00 MHz 40.50 MHz	/BW 160 kl ACP-II Integ BW 80.00 MHz 1.000 MHz	Hz BW 	wer dBm -23.43 -42.62	U dBc -39.53 -42.25	pan 240 Sweep oper dBm -21.64 -24.35	Filter -3 dB -3 dB	24.000000 MH
enter 3 Res BW Total Ca	.9400 GHz 7 51 kHz rrier Power 17.8 Power	94 dBm/ 80 Filter	.00 MHz Offset Freq 80.00 MHz	ACP-II Integ BW 80.00 MHz	Hz BW 	wer dBm -23.43 -42.62	U dBc -39.53	pan 244 Sweep oper dBm -21.64	Filter	24.000000 Mi Auto Ma

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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### Band77\_80MHz\_CP\_QPSK\_217\_0\_LowCH649334

	ipectrum Analyzer - ACP									
RL	RF 50 Q	DC	Cer	SENSE:INT	0000 GHz	ALIGN AU		4:47:33 PM dio Std: 1	Mar 29, 2021 None	Frequency
PASS	Gate: LO	IFGain:L		g: Free Run tten: 30 dB			Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset Ref 30.00									
20.0			_	18.6 dBm						Center Free
10.0	-39.2 dB	:			- 1		-38.0	0 dBc		3.740010000 GH
-10.0			(program	Y'P'T TANTT P	***					
-20.0										
-30.0							-		RMS AVG	
-40.0	haberpartitionitestly	unertheries about				MARINE.	Na Marine Bul	where	where the	
-60.0							-			
	3.7400 GHz			#VBW 1.2 M			s		0.0 MHz 20 ms	I CF Step
								sweet	5 20 ms	24.000000 MH: Auto Mar
Total Ca	arrier Power	18.568 dBm/ 80	.00 MHz	ACP-I						
Carrier I	Power	Filter	Offset Fre	q Integ BW	dBc	ower dBm	dBc	pper dBm	Filter	Freq Offse
	3.568 dBm / 80.00		80.00 MH		-39.15		-37.98	-19.41	-3 dB	0 Hi
	5.505 GBIII7 60.00	WITZ -5 0D	40.50 MH		-56.32		-55.67	-37.10	-3 dB	1 01.
			41.50 MH				-56.28		-3 dB	
					01.20					
ISG			L			51	ATUS			
						_				

# Band77\_80MHz\_CP\_QPSK\_217\_0\_MidCH656000

	pectrum Analyzer - ACP									
RL	RF 50 Q 0	DC	Cen	SENSE:INT ter Freg: 3.840000	0000 GH+	ALIGN AU		5:12:09 PMI dio Std: N	Mar 29, 2021	Frequency
PASS	Gate: LO	IFGain:Lo	Trig	Free Run en: 30 dB				dio Devic		
10 dB/div	Ref Offset 15 Ref 30.00 (									
20.0	-40.2 dBc			18.5 dBm			38.6	dBc		Center Free
10.0								000		3.840000000 GHz
-10.0		, i i i i i i i i i i i i i i i i i i i	whenthe	edul - industry and	nan l					
-20.0			_					_		
-30.0						-			RMS AVG	
-40.0	manan	hopping			•	hallin	and the second	11.141.14	in the second	
-50.0										
-60.0										
	.8400 GHz / 360 kHz			#VBW 1.2 M	Hz		s		0.0 MHz 20 ms	CF Step 24.000000 MH
Total Ca	rrier Power 1	8.505 dBm/ 80.	00 MHz	ACP-I	BW					Auto Mar
					Lo	wer	U	pper		
Carrier F	ower	Filter	Offset Free		dBc	dBm	dBc	dBm	Filter	Freq Offse
1 18	.505 dBm / 80.00 M	MHz -3 dB	80.00 MHz		-40.19		-38.55	-20.05	-3 dB	0 Ha
			40.50 MHz			-38.20		-37.21	-3 dB	
			41.50 MHz	1.000 MHz	-57.81	-39.31	-56.67	-38.17	-3 dB	
MSG			L			51	ATUS			
						P				

Band77\_80MHz\_CP\_QPSK\_217\_0\_HighCH662668

#### Std: None Freq Cer ter Freq: 3.9 Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre -39.0 0 8.1 dB Span 240.0 MHz Sweep 20 ms Center 3.9400 GHz #Res BW 360 kHz CF Ste #VBW 1.2 MHz 24.0 Total Carrier Power 18.273 dBm/ 80.00 MHz ACP-IBW Upper Lowe Filter Freq Offse Integ BW 80.00 MHz dBm dBc dBm -19.81 80.00 MHz -38.97 -3 dB OН -38.17 -56.03 -37.76 -3 dB -38.33 -56.43 -38.16 -3 dB 40.50 MHz 1.000 MHz -56.44 41.50 MHz 1.000 MHz -56.60

### Band77\_80MHz\_DFT\_BPSK\_1\_0\_LowCH649334

RL RL	ctrum Analyzer - ACP RF 50 Q DC			SENSE:INT		ALIGN AU	to 101	-01-02 DM	far 29, 2021	
	10 100 100			r Freq: 3.74001	0000 GHz	PLICE PL		dio Std: N		Frequency
ASS	Gate: LO	IFGain:L		Free Run n: 30 dB			Ra	dio Devic	e: BTS	
0 dB/div	Ref Offset 15.3 Ref 30.00 dl									
0.0				21.5 dBm						Center Fre
0.0	-41.7 dBc	-				_	-44.7	dBc		3.740010000 GH
0.0										
0.0										
0.0										
0.0										
0.0			1						-	
00 <b>AND-1</b>	How and war laway	former	Johnshypelarey	(oplasting), wh	another	phalasta	ويسيعه	man	mound	
enter 3.7 Res BW	400 GHz			VBW 160 k	u.,				0.0 MHz 278 ms	CF Ste
								sweep	276 1115	24.000000 MH Auto Ma
Fotal Carr	ier Power 21.	465 dBm/ 80	.00 MHz	ACP-I	BW					<u>Auto</u> ma
Carrier Po		Filter				ower		pper		
			Offset Freq 80.00 MHz	Integ BW 80.00 MHz	dBc -41.69	dBm -20.22	dBc	dBm -23.22	-3 dB	Freq Offs
1 21.4	65 dBm / 80.00 Mi	Hz -3 dB	40.50 MHz	1.000 MHz		-20.22		-23.22	-3 dB	01
			40.50 MHz	1.000 MHz		-38.16		-41.90	-3 dB	
			41.50 Minz	1.000 Miriz	-55.05	-30,10	-03,41	-41.00	-5 00	
_							_			
iG .						ST	ATUS			

# Band77\_80MHz\_DFT\_BPSK\_1\_0\_MidCH656000

	Spectrum Analyzer - ACP									
RL	RF 50 Ω 0	c		SENSE:INT Freq: 3.840000	000 GHz	ALIGN AU		:03:18 PM I dio Std: N	far 29, 2021	Frequency
PASS	Gate: LO	IFGain:Lo		ree Run : 30 dB			Ra	dio Devic	e: BTS	
I0 dB/div	Ref Offset 15. Ref 30.00 d									
20.0		-	- ,	0.8 dBm						Center Fre
10.0	-41.9 dBc			0.0 00111	- 1		-44,6	dBc		3.840000000 GH
					-	-	-			
0.0					-	-	-			
0.0										
0.0		- L -							FMG AVO	
0.0	ndy-hard-intrahart-i	Northern .	An Brailten Marines	13 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	****	verenn	hardener	North Par	aliphytan	
enter 3	3.8400 GHz				_		s	pan 24	0.0 MHz	-
Res BV	V 51 kHz		#	VBW 160 ki	Hz				278 ms	24.000000 MF
otal Ca	arrier Power 20	.845 dBm/ 80.	00 MHz	ACP-II	BW					Auto Ma
						ower	U	pper		
				Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
		Filter	Offset Freq							
	Power 0.845 dBm / 80.00 M		80.00 MHz	80.00 MHz	-41.88	-21.03	-44.60	-23.76	-3 dB	01
			80.00 MHz 40.50 MHz	80.00 MHz 1.000 MHz	-41.88 -42.08	-21.03 -21.24	-44.60 -63.52	-42.67	-3 dB	01
Carrier F 1 20			80.00 MHz	80.00 MHz	-41.88	-21.03 -21.24	-44.60	-42.67		01
			80.00 MHz 40.50 MHz	80.00 MHz 1.000 MHz	-41.88 -42.08	-21.03 -21.24	-44.60 -63.52	-42.67	-3 dB	01
			80.00 MHz 40.50 MHz	80.00 MHz 1.000 MHz	-41.88 -42.08	-21.03 -21.24	-44.60 -63.52	-42.67	-3 dB	01

### Band77 80MHz DFT BPSK 1 0 HighCH662668

Keysight Spectrum Analyzer - ACP RL RF 50 Ω DC		ENSE:INT Freq: 3.940020			5:32:53 PHI dio Std: N	Mar 29, 2021 None	Frequency
ASS Gate: LO IFGain:				Ra	dio Devic	e: BTS	
Ref Offset 15.36 dB 0 dB/div Ref 30.00 dBm							
-41.2 dBc	21	0 dBm		-44.0	) dBc		Center Fre
2.00							0.340020000 01
0.0							
0.0							
0.0	111 .					FMC AVO	
0.0	Mar Marian Inc	and the second second	hard a second		18.214.0		
enter 3.9400 GHz Res BW 51 kHz	#V	BW 160 ki	Hz			0.0 MHz 278 ms	CF Ste 24.000000 Mi
otal Carrier Power 20.999 dBm/ 8	0.00 MHz	ACP-II	BW				Auto M
			Lower		pper		
Carrier Power Filter	Offset Freq	Integ BW		3m dBc	dBm	Filter	Freq Offs
1 20.999 dBm / 80.00 MHz -3 dB	80.00 MHz	80.00 MHz		17 -44.02	-23.02	-3 dB	01
	40.50 MHz 41.50 MHz	1.000 MHz 1.000 MHz		79 -63.16 68 -63.18	-42.16	-3 dB -3 dB	
	41.50 MHZ	1.000 MHZ	-59.66 -38	68 -63.18	-42.18	-3 ab	
	_						

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→ ■給除約15世紀~5世月~3日~11/226 2) 2200 3270 f (226 2) 2202 0428 www.coc.com.tv	い 通給除む はれん 方限 八支	+ /886 2) 2200 3270	f (886 2) 2208 0488	www.cac.com.tw	



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# Band77\_80MHz\_DFT\_BPSK\_1\_216\_LowCH649334

	pectrum Analyzer - ACP									
RL	RF 50 Q C	×C	Cente	SENSE:INT r Freq: 3.740010	0000 GH+	ALIGN AU		1:59:40 PM dio Std: 1	Mar 29, 2021	Frequency
PASS	Gate: LO		Trig:	Free Run	000 0112					
FASS	-	IFGain:L	w #Atte	n: 30 dB			Ra	dio Devic	e: B15	
10 dB/div	Ref Offset 15 Ref 30.00 c									
20.0		-	_	12.00	_					Center Fred
10.0	-44.7 dBc			1.3 dBm	-		-42.9	dBc		3.740010000 GHz
0.00										3.740010000 011
-10.0										
							-	_		
-20.0										
-30.0										
-40.0					1/1		-			
-50.0	مواريع وروار والمعادين	Land Martin	ALL PROPERTIES	volgophilion	marted .	halas	ment	er.en.	RMS AVC	
-60.0	and the second sec			a selector.						
Center 3	.7400 GHz							nan 24	0.0 MHz	
	51 kHz		#	VBW 160 k	Hz				278 ms	CF Step 24.000000 MHz
Total Ca	rrier Power 21	.297 dBm/ 80	00 MHz	ACP-I	RW					Auto Mar
						wer	U	pper		
Carrier F	Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21	297 dBm / 80.00 M	Hz -3 dB	80.00 MHz	80.00 MHz	-44.67	-23.38	-42.91	-21.61	-3 dB	0 Ha
			40.50 MHz	1.000 MHz	-63.29	-42.00	-44.76	-23.47	-3 dB	L
			41.50 MHz	1.000 MHz	-63.29	-41.99	-57.17	-35.88	-3 dB	
L										
MSG						ST	ATUS			
						_	_			

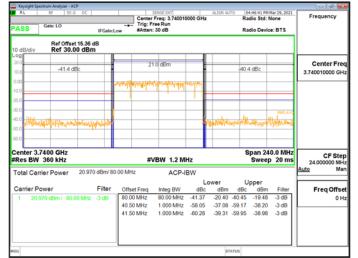
#### Band77\_80MHz\_DFT\_BPSK\_1\_216\_MidCH656000

Keysight Spectrum Analyzer - ACP	1 1 1					
( <b>X</b> RL RF 50Ω DC	Center Fre	eq: 3.8400000	ALIGN AUT	Radio Std:	Mar 29, 2021 None	Frequency
PASS Gate: LO IFGain:L	.ow #Atten: 30			Radio Devi	ce: BTS	
Ref Offset 15.36 dB 10 dB/div Ref 30.00 dBm						
20.0 -43.9 dBc	21.0	đBm		-42.5 dBc		Center Freq 3.840000000 GHz
-10.0						
-30.0						
50.0 •0.0 •0.0	water the second second second	natiotuntic	net between	continuous	RMS AVG 4414410444	
Center 3.8400 GHz #Res BW 51 kHz	#VB	W 160 kHz	z		40.0 MHz 278 ms	CF Step 24.000000 MHz
Total Carrier Power 20.985 dBm/ 80	0.00 MHz	ACP-IB	W			Auto Man
6			Lower	Upper		
Carrier Power Filter 1 20.985 dBm / 80.00 MHz -3 dB		Integ BW 80.00 MHz	dBc dBm	dBc dBm		FreqOffset
1 20.985 dBm/ 80.00 MHz -3 dB			-43.90 -22.92			0 Hz
			63.08 -42.09			
MSG	1		STA	TUS		

Band77\_80MHz\_DFT\_BPSK\_1\_216\_HighCH662668

🔤 Keysight Spectrum A										
CORL RF	50 Q DC			NSE:0NT reg: 3.940020	000 GHz	ALIGN AU		:31:33 PMI dio Std: N	Mar 29, 2021	Frequency
PASS Gate:	LO		Trig: Fre	eRun						
FASS		IFGain:Lov	w #Atten: 3	30 dB			Rad	lio Devic	e: BTS	
	tef Offset 15.36									
10 dB/div	tef 30.00 dBn	n III								
20.0			21	dBm	_					Center Freq
10.0	-44.6 dBc		£1.	00111	-		-42.6	dBc		3.940020000 GHz
0.00										
-10.0										
-20.0										
-30.0										
-30.0										
									-	
-50.0	Mary and the second second	يەلىمەسى	and the second second	Indulia	solut h	نعيبا انسوله	mour	morel	ANTING	
-60.0										
Center 3.9400	GHz						s	pan 24	0.0 MHz	
#Res BW 51 k	Hz		#V8	BW 160 k	Hz				278 ms	CF Step 24.000000 MHz
Total Carrier P	ower 21.11	4 dBm/ 80.0	0 MHz	ACP-I	RW					Auto Man
rotar outlier r	01101			101-1		wer		oper		
Carrier Power		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21.114 dE	m / 80.00 MHz	-3 dB	80.00 MHz	80.00 MHz	-44.57	-23.46	-42.56	-21.45	-3 dB	0 Hz
			40.50 MHz	1.000 MHz	-63.81	-42.69	-44.02	-22.90	-3 dB	
			41.50 MHz	1.000 MHz	-63.82	-42.71	-60.56	-39.45	-3 dB	
L										
MSG						ST	ATUS			
						_	_			

### Band77\_80MHz\_DFT\_BPSK\_216\_0\_LowCH649334



# Band77\_80MHz\_DFT\_BPSK\_216\_0\_MidCH656000

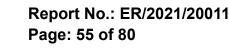
	pectrum Analyzer - ACP									
RL	RF 50 Ω DC		Center F	NSE:INT reg: 3.840000	0000 GHz	ALIGN AU		dio Std: M	Mar 29, 2021	Frequency
ASS	Gate: LO	IFGain:Low	#Atten: 3				Ra	dio Devic	e: BTS	
0 d <u>B/div</u>	Ref Offset 15.3 Ref 30.00 dB									
0.0			21.	1 dBm	_					Center Fre
0.0	-42.0 dBc				- 1		-41.1	dBc		3.84000000 GH
		New	Acres 140	why man	(PROV		-			
•		'	1.1.1		· •	-	-	-		
.0			1							
0									FMS AVG	
0 ***/h	termultury instruction	419mby				, uppelle	للهالإلمها	v-nis746)	أسرديهم الياه	
10										
×										
	8.8400 GHz V 360 kHz		40.0	BW 1.2 M			S		0.0 MHz	า เกอแ
ces BM				5W 1.2 W	HZ			sweep	) 20 ms	24.000000 M Auto M
otal Ca	arrier Power 21.1	37 dBm/ 80.00	MHz	ACP-I	BW					AUto M
		Filter o				ower		pper		
arrier F			offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21	.137 dBm / 80.00 MH		0.00 MHz 0.50 MHz	80.00 MHz 1 000 MHz	-41.99 -59.04	-20.85		-19.99 -38.94	-3 dB -3 dB	0
			1.50 MHz	1.000 MHz	-61.14	-40.00		-39.47	-3 dB	
		1	1.50 MHz	1.000 Minz	-01.14	-40.00	-00.01	-38.47	-5 00	
a						ST	ATUS			

### Band77 80MHz DFT BPSK 216 0 HighCH662668

RL ASS	ctrum Analyzer - ACP RF 50 Ω DC Gate: LO	IFGain:Lo	Center Trig: Fi	SENSE:INT Freq: 3.940020 ree Run : 30 dB	0000 GHz	ALIGN AUTO	Rad	15:48 PM M lio Std: N lio Device		Frequency
10 dB/div	Ref Offset 15.36 Ref 30.00 dB									
20.0	-42.2 dBc		20	).8 dBm			-40.7	dBc		Center Fre 3.940020000 GH
10.00			ALAR AND AL	ah hilipean	m			_		
30.0							. uth			
50.0	uddlair ann an Union	rslicenses			ľ	uspentingles	n have	And a start of the	4874440	
the later of	400 GHz	1+0.161.1960	#\	/BW 1.2 M	Hz	token Maeria	S	pan 24	0.0 MHz	CF Ste 24.00000 MF
So.0 So.0 Center 3.9 Res BW	400 GHz 360 kHz	00 dBm/ 80		/BW 1.2 MI		third floor	S	pan 24		CF Ste
Center 3.9 Res BW	400 GHz 360 kHz ier Power 20.8	00 dBm/ 80	.00 MHz	ACP-II	BW Lo	wer	SI	oan 240 Sweep	20 ms	24.000000 Mi Auto Ma
Carrier Po	4400 GHz 360 kHz ier Power 20.8 wer	00 dBm/ 80 Filter	.00 MHz Offset Freq	ACP-II	BW Lo dBc	wer dBm	SI Up dBc	oan 244 Sweep	20 ms	24.000000 Mi Auto Mi Freq Offs
Carrier Po	400 GHz 360 kHz ier Power 20.8	00 dBm/ 80 Filter	00 MHz Offset Freq 80.00 MHz	ACP-II Integ BW 80.00 MHz	BW Lo dBc -42.24	wer dBm -21.45	Up dBc 40.72	oan 244 Sweep oper dBm -19.92	Filter -3 dB	24.000000 Mi Auto Mi Freq Offs
Center 3.9 Res BW	4400 GHz 360 kHz ier Power 20.8 wer	00 dBm/ 80 Filter	Offset Freq 80.00 MHz 40.50 MHz	ACP-II Integ BW 80.00 MHz 1.000 MHz	BW dBc -42.24 -55.72	wer dBm -21.45 -34.92	Up dBc 40.72 60.04	oan 244 Sweep oper dBm -19.92 -39.24	Filter -3 dB -3 dB	24.000000 Mi Auto Mi Freq Offs
Center 3.9 Res BW	4400 GHz 360 kHz ier Power 20.8 wer	00 dBm/ 80 Filter	00 MHz Offset Freq 80.00 MHz	ACP-II Integ BW 80.00 MHz	BW Lo dBc -42.24	wer dBm -21.45	Up dBc 40.72 60.04	oan 244 Sweep oper dBm -19.92	Filter -3 dB	24.000000 Mi Auto Mi

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# Band77\_100MHz\_CP\_QPSK\_1\_0\_LowCH650000

	pectrum Analyzer - ACP									
RL	RF 50 Ω D	c	Cent	SENSE:INT	000 GHz	ALIGN AU		:43:31 PMI dio Std: N	lar 29, 2021	Frequency
PASS	Gate: LO	IFGain:Lo	Trig:	Free Run n: 30 dB			Ra	dio Devic	e: BTS	
10 dB/div	Ref Offset 15. Ref 30.00 d									
20.0		-								Center Fre
10.0	-38.9 dBc			18.6 dBm			-41.1	dBc		3.750000000 GH
0.00	_			_						L
10.0				_				_		
20.0					-		_			
0.0					-					
40.0				_			_			
50.0							_		FMG AVG	
60.0	an and second second	Starrage St.	A. Wildow or A and	*********		an and	*****	, where the	Alley Marine	
	0.7500 GHz V 51 kHz		;	VBW 160 k	Hz				0.0 MHz 47.5 ms	CF Ste 30.000000 MH
Total Ca	rrier Power 18	.609 dBm/ 10	0.00 MHz	ACP-I	BW					<u>Auto</u> Ma
					Lo	wer	U	pper		<u> </u>
Carrier F		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	FreqOffs
1 18	1.609 dBm / 100.0 M	Hz -3 dB	100.0 MHz	100.0 MHz	-38.90	-20.29		-22.51	-3 dB	01
			50.50 MHz	1.000 MHz	-38.92		-60.66	-42.05	-3 dB	
			51.50 MHz	1.000 MHz	-57.41	-38.80	-60.68	-42.07	-3 dB	

Band77\_100MHz\_CP\_QPSK\_1\_0\_MidCH656000

Keysight Sp R L	ectrum Analyzer - ACP RF 50 Ω DC		Center	SENSE:DNT Freq: 3.840000	0000 GHz	ALIGN AU		:51:38 PMI dio Std: N	Mar 29, 2021 None	Frequency
ASS	Gate: LO	IFGain:Lo		so dB			Ra	dio Devic	e: BTS	
0 dB/div	Ref Offset 15.36 Ref 30.00 dB									
20.0			17	3 dBm						Center Fre
10.0	-37.4 dBc			0.00111			-39.8	8 dBc		3.840000000 GH
0.00							-			
10.0	_					-	-	-		
20.0						-	-	-		
40.0							-			
20.0										
50.0	والمسرا الموجعين والمحافظ والم	an property and	without a second se	manuture	Numer	a name		marte	1005 AVG	
00.0										
Center 3. Res BW	8400 GHz 51 kHz		#\	/BW 160 k	Hz				0.0 MHz 47.5 ms	CF Ste 30.000000 MH
Total Car	rier Power 17.3	03 dBm/ 100	0.00 MHz	ACP-I	BW					Auto Ma
						ower		pper		
Carrier P		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	FreqOffs
1 17.	303 dBm / 100.0 MH	t -3dB	100.0 MHz 50.50 MHz	100.0 MHz 1.000 MHz	-37.37 -38.25	-20.07	-39.81	-22.51	-3 dB -3 dB	0
			50.50 MHz	1.000 MHz	-38.25			-42.72	-3 dB	-
			01.00 1112	1.000 11112	-55.40	-00.00	-00.00	-16.16		1
										1
										1
sG						ST	ATUS			
	Band / I	/ 1001	ИHz CP	QPSK	10	High	ηCH	6620	00	

Keysight Spectrum Analyzer - ACP	_10010112								
02 RL RF 50Ω DC		Center Fr Trig: Free	eq: 3.930000	0000 GHz	ALIGN AU		dio Std: N	Mar 29, 2021	Frequency
PASS Gate: LO	IFGain:Low	#Atten: 3				Ra	dio Devic	e: BTS	
Ref Offset 15.36 d 10 dB/div Ref 30.00 dBm									
20.0		18.2	dBm						Center Freq
10.0 -38.5 dBc		10.2	op.m			-40.2	dBc		3.930000000 GHz
0.00									
-10.0					-	-	-		
-20.0					-	-	-		
-30.0									
-40.0									
50.0	engine hear	un north	-	agramatica de	(neterospin)	maig	فتح ترجاب والجم	ber while not	
Center 3.9300 GHz #Res BW 51 kHz		#VB	W 160 k	Hz				0.0 MHz 47.5 ms	CF Step 30.000000 MHz
Total Carrier Power 18.160	dBm/ 100.00 Mi	Ηz	ACP-I	BW					Auto Man
					ower		pper		
Carrier Power			Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 18.160 dBm / 100.0 MHz			100.0 MHz 1.000 MHz	-38.55 -38.88	-20.39	-40.23	-22.07	-3 dB -3 dB	0 Hz
			1.000 MHz			-60.38		-3 dB	
MSG					ST	ATUS			

# Band77\_100MHz\_CP\_QPSK\_1\_272\_LowCH650000

	pectrum Analyzer - ACP									
RL	RF 50 Ω	DC	Cente	SENSE:INT Freq: 3.750000	0000 GHz	ALIGN AU		ilio Std: N	tar 29, 2021	Frequency
ASS	Gate: LO	IFGain:		ree Run : 30 dB			Rad	dio Devio	e: BTS	
0 dB/div	Ref Offset 1 Ref 30.00									
0.0				14 dBm						Center Fre
0.0	-43.9 dBc		2	1.4 dBm			-42.3	dBc		3.75000000 G
10										
10										
0.0										
				-						
Part and	www.www.	- Marian and	ودار رويم ويوريه	and concernance	and a	an Interior		Marchand.	RMS AVG	
Part and		1941 AN 1941 AN 1941	1993,000 <sup>1</sup> 201920-7100		and the	ar-turio	****	maria a	амс лос <b>Алгардиян</b>	
0.0	.7500 GHz	******	ىدەر. ر <b>ې</b> مودىيەردى	and the second second second	and a	\$Printing			0.0 MHz	05.04
enter 3		n Marin (an an a		VBW 160 k		arrintion	S	pan 30		
enter 3. Res BW	.7500 GHz V 51 kHz	21.401 dBm/ 10	#		Hz	****	S	pan 30	0.0 MHz	30.000000 M
enter 3. Res BW	7500 GHz 51 kHz	21.401 dBm/ 10	# 00.00 MHz	VBW 160 k	Hz BW	wer	Sw Sw	pan 30 veep 3	0.0 MHz 47.5 ms	30.000000 M <u>Auto</u> M
Center 3. Res BW	2.7500 GHz V 51 kHz mier Power	21.401 dBm/ 10 Filter	# 00.00 MHz Offset Freq	VBW 160 k ACP-I	Hz BW dBc	dBm	Sw Sw Uj dBc	pan 30 veep 3 oper dBm	0.0 MHz 47.5 ms Filter	30.000000 M Auto M Freq Offs
Center 3. Res BW	7500 GHz 51 kHz	21.401 dBm/ 10 Filter	# 00.00 MHz Offset Freq 100.0 MHz	VBW 160 k ACP-I Integ BW 100.0 MHz	Hz BW Lc dBc -43.87	dBm -22.47	S Sw U dBc -42.29	pan 30 veep 3 oper dBm -20.89	0.0 MHz 47.5 ms Filter -3 dB	30.000000 M Auto M Freq Offs
Center 3. Res BW	2.7500 GHz V 51 kHz mier Power	21.401 dBm/ 10 Filter	# 00.00 MHz Offset Freq 100.0 MHz 50.50 MHz	VBW 160 kl ACP-I Integ BW 100.0 MHz 1.000 MHz	Hz BW 	dBm -22.47 -42.03	S Sw U dBc -42.29 -42.59	pan 30 /eep 3 opper dBm -20.89 -21.19	Filter -3 dB -3 dB	30.000000 M Auto M Freq Offs
Center 3. Res BW	2.7500 GHz V 51 kHz mier Power	21.401 dBm/ 10 Filter	# 00.00 MHz Offset Freq 100.0 MHz	VBW 160 k ACP-I Integ BW 100.0 MHz	Hz BW Lc dBc -43.87	dBm -22.47 -42.03	S Sw U dBc -42.29	pan 30 /eep 3 opper dBm -20.89 -21.19	0.0 MHz 47.5 ms Filter -3 dB	CF Sto 30.000000 Mi <u>Auto</u> M Freq Offs 0 I

# Band77\_100MHz\_CP\_QPSK\_1\_272\_MidCH656000

	ctrum Analyzer - ACP			SENSE:INT						@ #
PASS	RF 50 Ω D	C	Center Freq: 3.84000000 GHz Trig: Free Run					dio Std: N		Frequency
10 dB/div	Ref Offset 15. Ref 30.00 d									
20.0	-37.4 dBc			17.3 dBm			-39.8	dBc		Center Free 3.840000000 GH
10.0										
30.0 40.0 50.0										
50.0	an a	alaman ang tang	*****	ether Alier Alies	and the second	*******				
Center 3.8 Res BW	8400 GHz 51 kHz			#VBW 160 k	Hz				0.0 MHz 47.5 ms	CF Ste 30.000000 MH
Fotal Car	rier Power 17	.303 dBm/ 10	0.00 MHz	ACP-I	BW					Auto Ma
						ower		pper		
Carrier Po		Filter	Offset Frec		dBc	dBm	dBc	dBm	Filter	Freq Offs
1 17.3	303 dBm / 100.0 M	Hz -3 dB	100.0 MHz 50.50 MHz	100.0 MHz 1.000 MHz	-37.37 -38.25	-20.07 -20.95		-22.51	-3 dB -3 dB	01
			51.50 MHz		-38.25		-60.02		-3 dB	
ig						ST	ATUS			

#### Band77 100MHz CP QPSK 1 272 HighCH662000

ASS	rum Analyzer - ACP RF 50 Ω DC Gate: LO	IFGain:L	Center F	SENSE:INT ALIGN AUTO Center Freq: 3.93000000 GHz Trig: Free Run #Atten: 30 dB			Rad	dio Std: N		Frequency
I0 dB/div	Ref Offset 15.3 Ref 30.00 dE									
. og 20.0 10.0	-38.5 dBc		18	2 dBm			-40.2	dBc	_	Center Fre 3.930000000 GH
0.00										
0.0 0.0										
0.0 0.0	~~~	w.en.e.	yan dag mang am make	and the second second		*****	ograada	لجزيادرامه	RMS AVG	
enter 3.93 Res BW 5			#V	BW 160 ki	Hz				0.0 MHz 47.5 ms	CF Ste 30.000000 MH
	Power 18.1	60 dBm/ 10	0.00 MHz	ACP-I	BW					Auto M:
otal Carrie						wer		pper		
		Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
Carrier Pov								-22.07	-3 dB	01
Carrier Pov	ver 0 dBm / 100.0 MH	z -3 dB	100.0 MHz	100.0 MHz	-38.55	-20.39				
Carrier Pov		z -3 dB	100.0 MHz 50.50 MHz 51.50 MHz	100.0 MHz 1.000 MHz 1.000 MHz	-38.88	-20.72		-42.22	-3 dB -3 dB	
Carrier Pov		z -3 dB	50.50 MHz	1.000 MHz	-38.88	-20.72	-60.38	-42.22	-3 dB	

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# Band77\_100MHz\_CP\_QPSK\_273\_0\_LowCH650000

Keysight Spectrum Analyzer - ACP									
RL RF 50 Q	DC	Center Trig: F	SENSE:INT] Freq: 3.750000 free Run :: 30 dB	0000 GHz	ALIGN AU	Ra	dio Std: M dio Devic		Frequency
10 dB/div Ref 30.00		w #Atten	: 30 05			ка	dio Devic	e: D13	
20.0 10.0 -37.7 dBc		1	8.6 dBm			-36.1	l dBc		Center Free 3.750000000 GH
0.00		erab-technologia	le ferrele freir frei fer	****					
30.0 40.0 50.0 50.0	ha de la grade de la			,	hanna	e voltava	-yurun (e <sup>k</sup> a	RMS AVG	
Center 3.7500 GHz #Res BW 360 kHz			VBW 1.2 M	Hz		s	pan 30 Sweep	0.0 MHz 20 ms	CF Ste 30.000000 MH Auto Ma
Total Carrier Power	18.617 dBm/ 10	0.00 MHz	ACP-I						Mulo ma
Carrier Power	Filter	Offset Freg	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offse
1 18.617 dBm / 100.0	MHz -3 dB	100.0 MHz	100.0 MHz	-37.68	-19.07		-17.50	-3 dB	0 H
		50.50 MHz	1.000 MHz	-56.39	-37.78	-55.09	-36.47	-3 dB	
		51.50 MHz	1.000 MHz	-57.34	-38.72	-55.66	-37.04	-3 dB	

# 05:49:42 PM Mar 29, Radio Std: None Frequency Trig: Fi Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre -38.6 dB 36.9 dBc Span 300.0 MHz Sweep 20 mm

Band77\_100MHz\_CP\_QPSK\_273\_0\_MidCH656000

Center 3.8400 GHz #Res BW 360 kHz	#VE	BW 1.2 M	Hz		s		0.0 MHz 20 ms	CF Step 30.000000 MHz
Total Carrier Power 18.571 dBm/ 10	0.00 MHz	ACP-I	BW					Auto Man
			Lo	wer	U	pper		<u> </u>
Carrier Power Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 18.571 dBm / 100.0 MHz -3 dB	100.0 MHz	100.0 MHz	-38.62	-20.05	-36.87	-18.29	-3 dB	0 Hz
	50.50 MHz	1.000 MHz	-55.86	-37.29	-55.56	-36.99	-3 dB	
	51.50 MHz	1.000 MHz	-56.92	-38.35	-56.17	-37.60	-3 dB	
MSG	L			ST	ATUS			

#### Band77\_100MHz\_CP\_QPSK\_273\_0\_HighCH662000 Freq 55 PM Mar 29 Std: None Center Freq: 3.93 Trig: Free Run Radio Device: BTS Ref Offset 15.36 dB Ref 30.00 dBm Center Fre 5.6 dB Center 3.9300 GHz #Res BW 360 kHz Span 300.0 MHz Sweep 20 ms CF Ste #VBW 1.2 MHz 30.0 Total Carrier Power 18.373 dBm/ 100.00 MHz ACP-IBW Upper Lower rier Powe Freq Offse Integ BW 100.0 MHz dBm dBc dBm -19.54 -36.58 -18.20 -37.91 100.0 MHz -3 dB οн 50.50 MHz 1.000 MHz -56.34 -37.97 -55.91 -37.54 -3 dB -38.89 -56.66 -38.28 -3 dB 51.50 MHz 1.000 MHz -57.26

#### Band77\_100MHz\_DFT\_BPSK\_1\_0\_LowCH650000

Keysight Spi										
RL	RF 50 Ω	DC	Cente	SENSE:INT Freq: 3.750000	000 GHz	ALIGN AU		:36:40 PM M dio Std: N	tar 29, 2021	Frequency
ASS	Gate: LO	IFGair	Trig: F	ree Run : 30 dB				dio Devic		
0 dB/div	Ref Offset 1 Ref 30.00									
0.0				1.2 dBm						Center Fre
0.0	-40.5 dBc	;		1.2 dBm			-38.4	dBc		3.75000000 GH
0.0				_			_			
0.0	_			_				_		
0.0				_			_			
0.0										
0.0							_	wan	RMS AVC	
Press, Andale	our maker	مېر بېرمورونه مورنې. اور	harrison	kulturtalan sanaha	+a~apdax	uran ya ya ka wa	norman and	www	RMS AVG	
0.0		an the second	hanger	หกุร <sup>ถึ</sup> พได้ <sup>เป</sup> าร์งไหร่งคลูมี	n an agula a	Jurgan	*****		م <sub>ا</sub> م کرمو <sub>ا</sub> م	
enter 3.	7500 GHz 51 kHz		*	VBW 160 ki	Hz	Unergeftenn			0.0 MHz 47.5 ms	CF 50
enter 3. Res BW	7500 GHz 51 kHz	21.151 dBm/		VBW 160 kl		رون میں			0.0 MHz	30.000000 Mi
enter 3. Res BW	7500 GHz 51 kHz mier Power		100.00 MHz		BW	ower	Sw		0.0 MHz	30.000000 Mi Auto M
enter 3. Res BW Total Car	7500 GHz 51 kHz mier Power	Filter	100.00 MHz Offset Freq	ACP-I	BW Lo dBc	dBm	Sw Uj dBc	pper dBm	0.0 MHz 47.5 ms Filter	Auto M
enter 3. Res BW Total Car	7500 GHz 51 kHz mier Power	Filter	100.00 MHz Offset Freq 100.0 MHz	ACP-I	BW Lo dBc -40.47	dBm -19.32	U dBc -38.38	pper dBm -17.23	0.0 MHz 47.5 ms Filter -3 dB	Auto M
enter 3. Res BW Total Car	7500 GHz 51 kHz mier Power	Filter	100.00 MHz Offset Freq	ACP-I	BW Lo dBc	dBm	U dBc -38.38	pper dBm	0.0 MHz 47.5 ms Filter	Auto M
enter 3. Res BW Fotal Car	7500 GHz 51 kHz mier Power	Filter	100.00 MHz Offset Freq 100.0 MHz	ACP-I	BW dBc -40.47 -57.07	dBm -19.32 -35.92	U dBc -38.38	pper dBm -17.23 -36.12	0.0 MHz 47.5 ms Filter -3 dB	30.000000 Mi

# Band77\_100MHz\_DFT\_BPSK\_1\_0\_MidCH656000

Keysight Spectrum i										- 6 2
CM RL RF	50 Ω DC		Center Fr	eq: 3.840000	000 GHz	ALIGN AUT		56:27 PM M io Std: N	far 29, 2021	Frequency
PASS Gate	: LO	IFGain:Low	#Atten: 3				Rad	io Devic	e: BTS	
			Brettern, er				Ruu	io Derio		
	Ref Offset 15.36 d Ref 30.00 dBm									
Log	(c) 00.00 ubin									<u> </u>
20.0	-40.0 dBc		21.0	dBm			43.5	dDa		Center Freq
10.0	-40.0 000				- 1	-	43,3	UDC		3.840000000 GHz
0.00							-			
+10.0			_					_		
-20.0			_							
-30.0							_			
-40.0										
-50.0										
-50.0 -60.0	estanostanostationes	lenser ha	Alter and a solution	property allow	(***** <b>\$</b> ** <b>\$</b> **	ويسروونهم	ملاميهمانهما	man	A COMPANY	
-60.0										
Center 3.8400									0.0 MHz	CF Step
#Res BW 51	KHZ		#VE	W 160 k	Hz		Sw	eep 3	47.5 ms	30.000000 MHz
Total Carrier P	ower 21.044	dBm/ 100.0	0 MHz	ACP-I	BW					<u>Auto</u> Man
					Lo	wer	Up	per		
Carrier Power		Filter (	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset
1 21.044 di	3m / 100.0 MHz			100.0 MHz	-40.00	-18.96		-22.50	-3 dB	0 Hz
				1.000 MHz	-38.50	-17.45		-42.65	-3 dB	
		5	51.50 MHz	1.000 MHz	-58.04	-36.99	-63.71	-42.66	-3 dB	
									- 1	
									- 1	
L										
MSG						STA	TUS			
							_			

# Band77 100MHz DFT BPSK 1 0 HighCH662000

RL	rum Analyzer - ACP RF 50 Ω DC Gate: LO		Center Fre		000 GHz	ALIGN AUT		05:20 PM M lio Std: N	tar 29, 2021 Ione	Frequency
ASS	Ref Offset 15.36		#Atten: 3	0 dB			Rad	lio Devic	e: BTS	
0 dB/div	Ref 30.00 dBr	n 🛛 🗖								
20.0	-40.4 dBc		21.0	dBm			-43.1	dBc		Center Fre 3.930000000 GH
										3.93000000 GP
0.0										
0.0										
0.0										
0.0										
									SMC AVI	
0.0	and the second second	ward y	which we have a second	- John Caleston	e-territor (generalis	-paper		and the second	-	
enter 3.93 Res BW			#VE	SW 160 ki	Hz				0.0 MHz 47.5 ms	CF Ste 30.000000 MH
otal Carrie	er Power 21.02	1 dBm/ 100	00 MHz	ACP-II	BW					Auto M
						wer		per		
Carrier Pov		Filter		Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offs
1 21.02	1 dBm / 100.0 MHz	-3 dB		100.0 MHz 1.000 MHz	-40.40 -38.67	-19.38	-43.07 -63.24	-22.05	-3 dB -3 dB	01
				1.000 MHz 1.000 MHz			-63.24		-3 dB	
			or or winz	1.000 MH2	-51.30	-50.34	-03.23	-76.61	-5 00	
a						ST	ATUS			

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