

	Input: RF Coupling: DC Align: Auto	Corr	t Z: 50 Ω CCorr Ref: Int (S) : Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fr Avg Hold Radio Sto		0 GHz	2.592	Frequency 990000 GHz	Settings
1 Graph Scale/Div 10.0	40			Ref LvI Offset 27					Span 30.000) MHz	
.og 30.0				Ref Value 40.00					CF Ste 3.000	p DOO MHz	
20.0		-/	~~~~	and a start and a start		han			AL Ma	ito an	
10.0 20.0 30.0	مودر مراجع مرد مراجع مراجع	A. C.				- h	- de a	PEAK	Freq O 0 Hz	ffset	
-30.0 -40.0 -50.0											
enter 2.59299 Res BW 300.0		•		Video BW 1.200	00 MHz	. #	Sweep 50.0 m	pan 30 MHz s (1001 pts)			
? Metrics Occup	vied Bandwidth	1 976 MHz			Total Power		31.5 d	Bm			
	nit Freq Error andwidth		-379.47 ki 15.11 Mi		% of OBW Po x dB	wer	99.00 -26.00) %			Local
15	2	? Jur	11, 2024 28:19 PM					- 52			

Sub6 n41_15 M_OBW_Mid_QPSK_FullRB



Coupling: DC	H Input Z: 50 Ω Corr CCorr	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off	Center Free Avg[Hold: 5	1 2.592990000 GHz	Center	Frequency	Settings
Align: Auto	Freq Ref: Int (S)	Fleanp. Oil	#IF Gain: Low	Radio Std: 1		2.5929	90000 GHz	Settings
raph 🔹	R	tef LvI Offset 27				Span 30.000	MHz	
lle/Div 10.0 dB		tef Value 40.00 c	dBm			CF Step 3.0000	p)00 MHz	
0	Jamm		**************************************	γ		Au Ma		
0	and the second s			h.	PEA	Freq Ot K 0 Hz	fset	
0					and the second of the second o			
onter 2.59299 GHz es BW 300.00 kHz	#	Video BW 1.200	0 MHz		Span 30 MH veep 50.0 ms (1001 pt			
etrics v								
Occupied Bandwidth	987 MHz		Total Power		30.7 dBm			
	-377.44 kH 14.82 MH		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Lo
Transmit Freq Error x dB Bandwidth								

Sub6 n41_15 M_OBW_Mid_16QAM_FullRB



KEYSIGHT Input.RF Input.Z: 50 Ω Atten: 20 dB Trig. Free Run Court Ccourt Freq Ref. Int (S) NFE: Off Freq Ref. Int (S) Atten: 20 dB Trig. Free Run Graph Freq Ref. Int (S) NFE: Off Ref Lvl Offset 27.32 dB Ref Value 40.00 dBm Og Og Og Og Og Og Og Og 000 Og <	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	Center Frequency 2.592990000 GHz Span 30.000 MHz CF Step 3.000000 MHz Auto	Settings
Graph Ref Lvi Offset 27.32 dB Ref Value 40.00 dBm Graph Ref Value 40.0		30.000 MHz CF Step 3.000000 MHz Auto	
00 00 00 00 00 00 00 00 00 00 00 00 00		3.000000 MHz	
000 000 000 000 000 000 000 000			
nter 2.59299 GHz #Video BW 1.2000 MHz es BW 300.00 kHz		Man 🖉	
0.0 0.0 Inter 2.59299 GHz #Video BW 1.2000 MHz tes BW 300.00 kHz	PEA	Freq Offset 0 Hz	
nter 2.59299 GHz #Video BW 1.2000 MHz es BW 300.00 kHz	Martin a Devised in martine and		
Metrics v	Span 30 MH #Sweep 50.0 ms (1001 pts		
Occupied Bandwidth 12,980 MHz Total Power	29.9 dBm		
Transmit Freq Error -357.78 kHz % of OBW Powe x dB Bandwidth 14.84 MHz x dB			Loc

Sub6 n41_15 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF R L + Coupling: DC Align: Auto	hput Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 50 Radio Std: No		2.5929	Frequency Frequency 90000 GHz	Settings
1 Graph Scale/Div 10.0 dB Log 20 0		Ref LvI Offset 27 Ref Value 40.00 (Span 30.000 CF Step 3.0000		
20.0 10.0 10.0 20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*			Freq Of 0 Hz	n	
30.0 40.0 50.0 Center 2.59299 GHz		ŧVideo BW 1.200			Span 30 MH			
2 Metrics Y		4VIdeo BVV 1.200		#Swe	span 30 mF eep 50.0 ms (1001 pt:			
Occupied Bandwidth 12.9	55 MHz		Total Power		27.6 dBm			
Transmit Freq Error x dB Bandwidth	-397.45 ki 14.60 Mi		% of OBW Pow x dB	er	99.00 % -26.00 dB			Local
1 501	? Jun 11, 2024 2:30:40 PM							

Sub6 n41_15 M_OBW_Mid_256QAM_FullRB



1 Graph Ref Lvi Offset 27.32 dB 40.000 MHz Log Ref Value 40.00 dBm CF Step 00 Auto Auto 100 Auto Man 100 Freq Offset How on the second secon	Center Frequency 2.592990000 GHz	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	Trig: Free Run Gate: Off #IF Gain: Low	Ref: Int (S)	Corr C	Input: RF Coupling: DC Align: Auto	KEYSIGH RL ++- M PASS
CF Step 4.000000 MHz Auto Auto Auto Auto Auto Metrics Metrics Metrics						T dB	
Addo Main Freq Offset 0 0 0 0 0 0 0 0 0 0 0 0 0					=		.og 30.0
Freq Offset 020 000 000 000 000 000 000 000 000 00			an a	~~~~~~	_		
enter 2.59299 GHz #Video BW 1.6000 MHz Span 40 MHz Res BW 390.00 kHz #Sweep 50.0 ms (1001 pts)		hanne				4	10.0
Res BW 390.00 kHz #Sweep 50.0 ms (1001 pts) 2 Metrics v							50.0
			JUU MIHZ	#VIGEO BVV 1.0			
17.966 MHz Total Power 32.0 dBm	dBm	32.0 dBm	Total Power			pied Bandwidth	
Transmit Freq Error -214.40 kHz % of OBW Power 99.00 % x dB Bandwidth 19.93 MHz x dB -26.00 dB					r		

Sub6 n41_20 M_OBW_Mid_BPSK_FullRB



Cocupied BW Input: RF KEYSIGHT Input: RF RL Coupling: DC Align: Auto M PASS	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.59 Avg Hold: 500/50 Radio Std: None		2.5929	Frequency 90000 GHz	Settings
1 Graph ▼		Ref LvI Offset 27				Span 40.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 (JBM			CF Step 4.0000	o 00 MHz	
20.0	Junan	mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		Au Ma		
10.0 20.0 30.0				hanne	PEAK	Freq Ol 0 Hz	fset	
40.0			0.1411-		0			
Center 2.59299 GHz Res BW 390.00 kHz		Video BW 1.600	0 MHZ	#Sweep	Span 40 MHz 50.0 ms (1001 pts)			
2 Metrics Coccupied Bandwidtl 17.	າ 960 MHz		Total Power		31.7 dBm			
Transmit Freq Error x dB Bandwidth	-197.12 ki 20.10 Mi		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
1501	? Jun 11, 2024 2:41:22 PM				N - X			

Sub6 n41_20 M_OBW_Mid_QPSK_FullRB



	+		_	_	4	\mathbf{Q}	Frequency	1
L + Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.59 Avg Hold: 500/500 Radio Std: None			Frequency 90000 GHz	Settings
7 PASS Graph v		Ref LvI Offset 27				Span 40.000	MHz	
cale/Div 10.0 dB og 0.0		Ref Value 40.00	dBm			CF Step 4.0000) 00 MHz	
0.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- Annahan Ana	~~~		Aut Ma		
10.0 20.0 30.0					PEAK	Freq Of 0 Hz	fset	
40.0								
enter 2.59299 GHz Res BW 390.00 kHz		Video BW 1.600	00 MHz	#Sweep !	Span 40 MHz 50.0 ms (1001 pts)			
Metrics v								
Occupied Bandwidth	7 MHz		Total Power		30.6 dBm			
Transmit Freq Error x dB Bandwidth	-197.19 kH 19.97 MH		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
	Jun 11, 2024 🖌							
	Jun 11, 2024 2:42:09 PM							

Sub6 n41_20 M_OBW_Mid_16QAM_FullRB



CCUPIED BW	+ Input Ζ: 50 Ω	Atten: 20 dB	Trig: Free Run	Center Freq: 2.592990000		₽		
L Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)	Preamp: Off	Gate: Off #IF Gain: Low	Avg Hold: 500/500 Radio Std: None			requency 0000 GHz	Settings
Graph	NFE: Off	Ref LvI Offset 27	7.32 dB			Span 40.000	MHz	
ale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 4.00000	0 MHz	
0.0	Junioran	A.m.	m	~		Auto Mar		
0.0					PEAK	Freq Off: 0 Hz	set	
0.0					www.comentor			
enter 2.59299 GHz Res BW 390.00 kHz	#	≇Video BW 1.600	00 MHz	Sp #Sweep 50.0 ms	oan 40 MHz (1001 pts)			
Metrics Y								
Occupied Bandwidth	3 MHz		Total Power	30.0 dB	m			
Transmit Freq Error x dB Bandwidth	-203.28 kł 20.01 Mł		% of OBW Pow x dB		%			Loc
		12.	× 00					
16000	Jun 11, 2024 2:42:55 PM							

Sub6 n41_20 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Frequency	- 読
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	Center Frequency 2.592990000 GHz	Settings
1 Graph 🔹		ef LvI Offset 27			Span 40.000 MHz	
Scale/Div 10.0 dB	R	ef Value 40.00 c			CF Step 4.000000 MHz Auto	
0.00 -10.0 -20.0 -30.0				PE	Man Freq Offset 0 Hz	
-40.0 -50.0 Center 2.59299 GHz	#	Video BW 1.600	0 MHz	Span 40 M		
#Res BW 390.00 kHz 2 Metrics				#Sweep 50.0 ms (1001 p	(s)	
Occupied Bandwidth	17 MHz		Total Power	27.4 dBm		
Transmit Freq Error x dB Bandwidth	-233.28 kH 20.01 MH		% of OBW Pow x dB			Local
4 5 6 1 (? Jun 11, 2024 2:43:43 PM					

Sub6 n41_20 M_OBW_Mid_256QAM_FullRB



EYSIGHT Input: RF Coupling: DC Align: Auto	H Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Off Gate: Off Avg H	r Freq: 2.592990000 GHz old: 500/500 Std: None	Frequency Center Frequency 2.592990000 GHz	Settings
PASS Graph v	NFE: Off	fset 27.32 dB		Span 60.000 MHz	
cale/Div 10.0 dB	Ref Value	40.00 dBm		CF Step 6.000000 MHz	
0.0				Auto Man	
0.0			PEAK	Freq Offset 0 Hz	
0.0					
enter 2.59299 GHz tes BW 620.00 kHz	#Video B\	V 2.4000 MHz	Span 60 MHz #Sweep 50.0 ms (1001 pts)		
Metrics	32 MHz	Total Power	32.1 dBm		
Transmit Freq Error x dB Bandwidth	-591.30 kHz 29.34 MHz	% of OBW Power x dB	99.00 % -26.00 dB		Loc

Sub6 n41_30 M_OBW_Mid_BPSK_FullRB



	+ Input Ζ: 50 Ω	Atten: 20 dB	Trig: Free Run	Center Freq: 2.59299000	CHr	*	Frequency	, 崇
KEYSIGHT Input: RF R L Coupling: DC Align: Auto Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Off	Preamp: Off	Gate: Off #IF Gain: Low	Avg Hold: 500/500 Radio Std: None	/ GHZ	period and an other states of the	Frequency 90000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				Span 60.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 c	1Bm			CF Step 6.0000	o 00 MHz	
20.0		******************				Au Ma		
10.0	1 -				PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 2.59299 GHz #Res BW 620.00 kHz		∜Video BW 2.400	0 MHz	S Sweep 50.0 m	pan 60 MHz s (1001 pts)			
2 Metrics 🔹 🔻								
Occupied Bandwidth	44 MHz		Total Power	31.8 dE	m			
Transmit Freq Error x dB Bandwidth	-601.80 kł 29.56 Mł		% of OBW Pow x dB		%			Local
	? Jun 11, 2024 2:54:22 PM	$\supset \triangle$						

Sub6 n41_30 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+						Frequency	- 1 条
R L Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592 Avg Hold: 500/500 Radio Std: None	990000 GHz	2.5929	Frequency 90000 GHz	Settings
1 Graph 🔻		tef LvI Offset 27				Span 60.000	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 6.0000	o 00 MHz	
20.0	Junior	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	all and a second se	~		Au Ma		
0.00 10.0 20.0 30.0	/				PEAK	Freq Of 0 Hz	fset	
40.0 50.0								
enter 2.59299 GHz Res BW 620.00 kHz	. , #	Video BW 2.400	00 MHz	#Sweep 5	Span 60 MHz 0.0 ms (1001 pts)			
Metrics Metrics	'8 MHz		Total Power	3	0.9 dBm			
Transmit Freq Error x dB Bandwidth	-582.73 kH 29.68 MH		% of OBW Pow x dB		99.00 % 26.00 dB			Local
			x dB	······································				L

Sub6 n41_30 M_OBW_Mid_16QAM_FullRB



1 Graph Ref Lvi Offset 27.32 dB Span Scale/Div 10.0 dB Ref Value 40.00 dBm CF Step 300 Auto Man 1000 PEAK PEAK 0000 Man Freq Offset 1000 Man Freq Offset 1010 Man Man 1010 Man Freq Offset 10110 Man Man 10110	CEVENDED BW Input: RF L Coupling: DC Align: Auto PASS	H Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 5 Radio Std: 1		0 GHz	2.59299	requency 00000 GHz	Settings
CF Step 6.00000 MHz Auto Auto Man Freq Offset 0 Hz Wetrics Metrics								and a second	MHz	
Auto Main PEAK			ker value 40.00 k	лыт — — — — — — — — — — — — — — — — — — —					And the second second second	
0.0 0			annan	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~					
0.0 0	0.0					manniestra			set	
Occupied Bandwidth Total Power 29.9 dBm Transmit Freq Error -558.33 kHz % of OBW Power 99.00 %	0.0									
Occupied Bandwidth 27.048 MHz Total Power 29.9 dBm Transmit Freq Error -558.33 kHz % of OBW Power 99.00 %			VIDEO BVV 2.400		#Sw					
	Occupied Bandwidth	8 MHz		Total Power		29.9 dl	Зm			
X db bandwidth 29.47 Minz X db -20.00 db	Transmit Freq Error x dB Bandwidth	-558.33 kH 29.47 MH		% of OBW Pow x dB	ver	99.00 -26.00				Loc

Sub6 n41_30 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Frequenc	/ 1 😤
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	Center Frequency 2.592990000 GHz Span	Settings
1 Graph 🔹		Ref LvI Offset 27			60.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 6.000000 MHz	1
20.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Auto Man	
20.0				PEA	Freq Offset 0 Hz	
-30.0 -40.0 -50.0						
Center 2.59299 GHz #Res BW 620.00 kHz	f	#Video BW 2.400	00 MHz			
2 Metrics ¥						
Occupied Bandwidth						
	878 MHz		Total Power	27.7 dBm		
Transmit Freq Error x dB Bandwidth	-559.87 kł 29.40 Mł		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Local
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Sub6 n41_30 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	• +					\$	Frequency	一湯
KEYSIGHT Input Coupl Align: PASS	ing: DC Corr C	Ref: Int (S)		Center Freq: 2.592 Avg Hold: 500/500 Radio Std: None	990000 GHz	Center Frequency 2.592990000 GHz		Settings
Graph	•	Ref Lvi Offse				Span 80.000	MHz	
cale/Div 10.0 dB .og		Ref Value 40	.00 dBm			CF Step 8.0000		
20.0		menter the warnes				Aut Ma		
10.0					PEAK	Freq Off 0 Hz	set	
30.0								
enter 2.59299 GHz Res BW 820.00 kHz		#Video BW 3	.0000 MHz	↓ #Sweep 5	Span 80 MHz 0.0 ms (1001 pts)			
Metrics	*							
Occupied Ba	andwidth 35.954 MHz		Total Power		2.2 dBm			
	nsmit Freq Error -1.1737 MHz		% of OBW Pov	wer	99.00 %			-
x dB Bandw	ridth	38.71 MHz	x dB		26.00 dB			Local
5	Jun 3:06	11, 2024 5:34 PM						

Sub6 n41_40 M_OBW_Mid_BPSK_FullRB



Cooopica Dit	+			=	\$	Frequency	- 湯
RL +++ Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	and the second se	ter Frequency 92990000 GHz	Settings
UT PASS 1 Graph Y Scale/Div 10.0 dB	R	ef Lvi Offset 27 ef Value 40.00 (Spa 80.0	n 000 MHz	
Log 30.0					CF 3 8.0	Step 00000 MHz	
20.0		A	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		Auto Man	
-10.0 -20.0 -30.0					PEAK 0 H	l Offset z	
-30.0 -40.0 -50.0							
Center 2.59299 GHz #Res BW 820.00 kHz	. #1	video BW 3.000	00 MHz	Span 80 #Sweep 50.0 ms (100			
2 Metrics v							
	07 MHz		Total Power	32.0 dBm			
Transmit Freq Error x dB Bandwidth	-1.1861 MH 38.81 MH		% of OBW Pow x dB	ver 99.00 % -26.00 dB			Local
ニット	Jun 11, 2024 3:07:21 PM				X		

Sub6 n41_40 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+						\$	Frequency	1
EYSIGHT Input: RF Coupling: DC Align: Auto PASS Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold: 5 Radio Std: 1		0 GHz	Center Frequency 2.592990000 GHz		Settings
Graph 🔻	F	Ref LvI Offset 27					Span 80.000	MHz	
cale/Div 10.0 dB		Ref Value 40.00 (dBm				CF Step 8.0000	o 00 MHz	
0.0	June	an markan		\sim			Aut Ma		
0.0 0.0 0.0 0.0				Inster	- Markettanes	PEAK	Freq Of 0 Hz	fset	
10.0 50.0									
enter 2.59299 GHz Res BW 820.00 kHz	#	Video BW 3.000	00 MHz	#Sv		pan 80 MHz s (1001 pts)			
Metrics Coccupied Bandwidth 35.8	12 MHz		Total Power		30.8 d	Bm			
Transmit Freq Error x dB Bandwidth	Transmit Freq Error -1.1689 MHz		% of OBW Power 99.00 % x dB -26.00 dB						Loc

Sub6 n41_40 M_OBW_Mid_16QAM_FullRB



CUPIED BW	+ Input Ζ: 50 Ω	Atten: 20 dB	Trig: Free Run	Center Freq: 2	2.592990000 GHz	\$	Frequency	
Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)	Preamp: Off	Gate: Off #IF Gain: Low	Avg Hold: 500 Radio Std: No			Frequency 90000 GHz	Settings
PASS Graph v	NFE: Off	Ref LvI Offset 27	7.32 dB			Span 80.000	MHz	
ale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 8.0000	o 00 MHz	
.0	June	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ne maren and	γ		Aut Ma		
0.0				Louis	PEA	Freq Of 0 Hz	fset	
0.0								
nter 2.59299 GHz es BW 820.00 kHz		Video BW 3.000	00 MHz	#Swe	Span 80 MH ep 50.0 ms (1001 pt			
letrics 🔻								
Occupied Bandwidth 35.90	2 MHz		Total Power		30.2 dBm			
Transmit Freq Error -1.1152 MHz x dB Bandwidth 38.83 MHz			% of OBW Power 99.00 % x dB -26.00 dB					Lo
	_							
5000	Jun 11, 2024 3:08:53 PM							

Sub6 n41_40 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					*	Frequency	- 7 器
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.59299 Avg Hold: 500/500 Radio Std: None	90000 GHz		requency 90000 GHz	Settings
1 Graph 🔻		Ref LvI Offset 27				80.000	MHz	
Scale/Div 10.0 dB	F	Ref Value 40.00 (dBm			CF Step 8.0000	00 MHz	
10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-		Aut Ma		
-10.0 -20.0 -30.0					PEAK	Freq Off 0 Hz	set	
-30.0								
Center 2.59299 GHz #Res BW 820.00 kHz	. #	Video BW 3.000	0 MHz	#Sweep 50.	Span 80 MHz 0 ms (1001 pts)			
2 Metrics v								
Occupied Bandwidth	42 MHz		Total Power	27	.8 dBm			
Transmit Freq Error x dB Bandwidth	-1.1475 MH 38.88 MH		% of OBW Pow x dB	ver 9	9.00 % 5.00 dB			Land
X dB Bandwidth	30.00 M	14	A UB	-20				Local
1 7 7 1 1	Jun 11, 2024 3:09:42 PM							

Sub6 n41_40 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF RL + Align: Auto DO PASS	H Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 Avg Hold: 500/500 Radio Std: None	GHz		Frequency Frequency 90000 GHz	Settings
1 Graph v Scale/Div 10.0 dB Log 20.0 10.0		ef Lvi Offset 27. ef Value 40.00 d	Contraction of Contra			100.00 CF Step	o 000 MHz to	
0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -Center 2.59299 GHz	#1	/ideo BW 4.000	0 MHz		PEAK	Freq Of 0 Hz	fset	
Res BW 1.0000 MHz Metrics Occupied Bandwidth 45.86	59 MHz		Total Power	#\$weep 50.0 ms 32.3 dB				
Transmit Freq Error x dB Bandwidth	-1.0213 MHz 50.14 MHz		% of OBW Pow x dB	er 99.00 -26.00 d				Local
1 50	Jun 11, 2024 3:19:31 PM							

Sub6 n41_50 M_OBW_Mid_BPSK_FullRB



YSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 5929900 Avg Hold: 500/500 Radio Std: None	100 GHz	Center Fi 2.59299 Span	requency 0000 GHz	Settings
raph ▼ hle/Div 10.0 dB		ef LvI Offset 27 ef Value 40.00 c				100.00 M	ИHz	
g 0						CF Step 10.0000	00 MHz	
0		**************************************		~ <u>`</u>		Auto Man		
0				- American	PEAK	Freq Offs 0 Hz	et	
0								
nter 2.59299 GHz es BW 1.0000 MHz	#	Video BW 4.000	0 MHz	Sweep 50.0 r	pan 100 MHz ns (1001 pts)			
etrics ▼ Occupied Bandwidth 45.8	87 MHz		Total Power	31.9	dBm			
Transmit Freq Error x dB Bandwidth			% of OBW Pow x dB	ver 99.0 -26.0	00 % 0 dB			Loc

Sub6 n41_50 M_OBW_Mid_QPSK_FullRB



RL + Coupling: DC Coupling: D	put Z: 50 Ω Atten: 20 dB precorr req Ref: Int (S) FE: Off Ref Lvi Offset 27.3; Ref Value 40.00 dB	Gate: Off Avg #IF Gain: Low Radi 2 dB	ter Freq: 2.592990000 GHz Hold: 500/500 lio Std: None	Center Frequency 2.592990000 GHz Span 100.00 MHz	Settings
Graph v Scale/Div 10.0 dB 					
og 30.0 20.0	Ref Value 40.00 dB	m			
				CF Step 10.000000 MHz	
	for man with the second second			Auto Man	
0.00 10.0 20.0			РЕАК	Freq Offset 0 Hz	
10.0 50.0					
enter 2.59299 GHz Res BW 1.0000 MHz	#Video BW 4.0000	MHz	Span 100 MHz #Sweep 50.0 ms (1001 pts)		
Metrics Occupied Bandwidth 45.990 MH	łz	Total Power	30.9 dBm		
Transmit Freq Error x dB Bandwidth	-972.70 kHz 50.28 MHz	% of OBW Power x dB	99.00 % -26.00 dB		Loca

Sub6 n41_50 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+						\$	Frequency	- 1 景
KEYSIGHT Input: RF R L Implication Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 5 Radio Std: 1			2.5929	Frequency 90000 GHz	Settings
l Graph 🔻		Ref LvI Offset 27					Span 100.00	MHz	
cale/Div 10.0 dB	F	Ref Value 40.00	dBm				CF Step 10.000	000 MHz	
20.0	from	-		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		_	Aut Ma		
10.0				- Luna	an warden and the	PEAK	Freq Off 0 Hz	'set	
40.0 50.0									
Center 2.59299 GHz Res BW 1.0000 MHz		Video BW 4.000	00 MHz	#Sw	Span 10 veep 50.0 ms (100				
Metrics v									
	7 MHz		Total Power		30.2 dBm				
Transmit Freq Error x dB Bandwidth	-1.0314 MH 49.92 MH		% of OBW Pow x dB	ver	99.00 % -26.00 dB				Local
4571?	Jun 11, 2024 3:21:51 PM					X			

Sub6 n41_50 M_OBW_Mid_64QAM_FullRB



Cocupied BW Input: RF KEYSIGHT Input: RF Coupling: DC Align: Auto V// PASS	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 5 Radio Std: 1		Center Fre 2.592990 Span		Settings
1 Graph v Scale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 (100.00 M CF Step 10.00000		
20.0			*********	~		Auto Man	5 WI 12	
10.0 20.0 30.0 40.0					PEAK	Freq Offse 0 Hz	t	
50.0 Center 2.59299 GHz #Res BW 1.0000 MHz		#Video BW 4.000	0 MHz	#Sv	Span 100 MHz veep 50.0 ms (1001 pts)			
2 Metrics v Occupied Bandwidth 46.1	1 140 MHz		Total Power		28.0 dBm			
Transmit Freq Error x dB Bandwidth	-832.11 50.52 I		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
	? Jun 11, 2024 3:22:38 PM	\odot						

Sub6 n41_50 M_OBW_Mid_256QAM_FullRB



cupied BW	+	AH 00 JB	T	0	2 502000000 000	₽	Frequency	
VSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold: 5 Radio Std: 1			r Frequency 2990000 GHz	Settings
PASS raph v	- Province and	Ref LvI Offset 27				Span 120.0	00 MHz	
lle/Div 10.0 dB		Ref Value 40.00	dBm			CF St 12.00	ер 00000 MHz	
0		~~~~~		~~			Auto Man	
						PEAK 0 Hz		
0								
nter 2.59299 GHz es BW 1.2000 MHz		#Video BW 5.000	00 MHz	#Sv	Span 120 veep 50.0 ms (1001			
etrics v								
	02 MHz		Total Power		32.4 dBm			
Transmit Freq Error x dB Bandwidth	-257.66 kt 65.17 Mt		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Lo

Sub6 n41_60 M_OBW_Mid_BPSK_FullRB



Cocupied BW Input: RF KEYSIGHT Input: RF RL Coupling: DC Align: Auto CV PASS	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg Hold Radio Std		00 GHz		Frequency Frequency 90000 GHz	Settings
1 Graph v Scale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 (120.00 CF Ste	1	
20.0	para		mater and the second second	~~~~			Au Ma		
-10.0 -20.0 -30.0 -40.0					Na	PEAK	Freq Ol 0 Hz	fset	
-50.0 Center 2.59299 GHz #Res BW 1.2000 MHz		#Video BW 5.000	0 MHz	#s		pan 120 MHz ns (1001 pts)			
2 Metrics •	1								
58.	152 MHz		Total Power		32.1	dBm			
Transmit Freq Error x dB Bandwidth	-209.02 ki 65.47 M		% of OBW Pow x dB	ver	99.0 -26.0	00 % 0 dB			Local
1 5 7 7	? Jun 11, 2024 3:33:21 PM	\square							

Sub6 n41_60 M_OBW_Mid_QPSK_FullRB



EYSIGHT Input RF Coupling: DC			Trig: Free Run	Center Fred	1 2.592990000 GHz			
Align: Auto	Freq Ref: Int (S)	Preamp: Off	Gate: Off #IF Gain: Low	Avg Hold: 5 Radio Std: 1	00/500	procession in the second	requency 90000 GHz	Settings
PASS Graph T	NFE: Off	Ref LvI Offset 27	7.32 dB			Span 120.00	MHz	
lle/Div 10.0 dB		Ref Value 40.00	dBm			CF Step		
0	Januar	marne	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	manang		12.0000 Aut Mai		
					PEA	Freq Off	8	
0								
nter 2.59299 GHz es BW 1.2000 MHz		#Video BW 5.000	00 MHz	! #Sv	Span 120 Mi veep 50.0 ms (1001 pt			
letrics v								
	3.049 MHz	415	Total Power		30.9 dBm			
Transmit Freq Erro x dB Bandwidth	or -108.84 H 64.47 N		% of OBW Pow x dB	wer	99.00 % -26.00 dB			Lo

Sub6 n41_60 M_OBW_Mid_16QAM_FullRB



	+			Frequency	- T 😤
EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Atten: 20 dB Corr CCorr Preamp: Off Freq Ref: Int (S) NFE: Off	Gate: Off Av	nter Freq: 2.592990000 GHz g Hold: 500/500 dio Std: None	Center Frequency 2.592990000 GHz	Settings
Graph 🔻	Ref LvI Offse			Span 120.00 MHz	
cale/Div 10.0 dB	Ref Value 40.	00 dBm		CF Step 12.000000 MHz	
0.0		······	~	Auto Man	
0.0			PEAK	Freq Offset 0 Hz	
0.0					
enter 2.59299 GHz Res BW 1.2000 MHz	#Video BW 5.	0000 MHz	• Span 120 MHz #Sweep 50.0 ms (1001 pts		
Metrics	37 MHz	Total Power	30.1 dBm		
Transmit Freq Error x dB Bandwidth	-163.87 kHz 63.27 MHz	% of OBW Power x dB	99.00 % -26.00 dB		Loca

Sub6 n41_60 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF RL Coupling: DC Align: Auto	HINDULT: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: Avg Hold: 50 Radio Std: N			Frequency Frequency 90000 GHz	▼ 送送 Settings
1 Graph v Scale/Div 10.0 dB Log 30.0 20.0		Ref LvI Offset 27. Ref Value 40.00 d				120.00 CF Step 12.000 Au	p 1000 MHz to	
10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0					PEA	Ma Freq Of 0 Hz		
Center 2.59299 GHz #Res BW 1.2000 MHz 2 Metrics	#	∜Video BW 5.000	0 MHz	#Swe	Span 120 MH eep 50.0 ms (1001 pts			
Occupied Bandwidth 58.01	3 MHz		Total Power		28.0 dBm			
Transmit Freq Error x dB Bandwidth	-147.80 kł 65.08 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
4 7 7 1 ?	Jun 11, 2024 3:35:41 PM							

Sub6 n41_60 M_OBW_Mid_256QAM_FullRB



pectrum Analyzer 1	+				Freq	uency 🔻 🛃
EYSIGHT Input: RF Coupling: DC Align: Auto		Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	Center Frequenc 2.592990000 GH	
Graph v cale/Div 10.0 dB	Re	f LvI Offset 27 f Value 40.00 (I	Span 140.00 MHz	
og 0.0		Value 40.00			CF Step 14.000000 MHz	
0.0		· · · · · · · · · · · · · · · · · · ·	mary	-	Auto Man	
0.0				PE	Freq Offset	
0.0 0.0 0.0 0.0						
enter 2.59299 GHz Res BW 1.5000 MHz	#V	ideo BW 6.000	0 MHz	Span 140 M #Sweep 50.0 ms (1001 pt		
Metrics v						
Occupied Bandwidth	38 MHz		Total Power	32.6 dBm		
Transmit Freq Error x dB Bandwidth	-1.8668 MHz 71.55 MHz		% of OBW Pow x dB			Loc
ットー	Jun 11, 2024 3:45:36 PM					

Sub6 n41_70 M_OBW_Mid_BPSK_FullRB



Coupling: DC Align: Auto Corr CCorr Freq Ref. Int (S) NFE: Off Preamp: Off Gate: Off #IF Gain: Low Avg Hold: 500/500 Radio Std: None Span 140.00 MHz Span 140.00 MHz Span 140.00 MHz Span 140.00 MHz Total Power Span 140.00 MHz Man Freq Offset 0 Man Man Freq Offset 0 Man Freq Offset 0 Man Freq Offset 0 Man Freq Offset 0 Hz Man Freq Offset Hz	L Coupling DC Freq Ref: Int (S) NFE: Off Corr CCorr HFE Gala: Low Avgl(Hold: 500/500 Radio Std: None Coupled Bala (Std: None Span 140.000 GHz Span 140.000 MHz Span 140.000 MHz	ccupied BW	+					\$	requency	16
Graph Ref Lvl Offset 27.32 dB Bale/Div 10.0 dB Ref Value 40.00 dBm 00 CF Step 00 Auto 00 Main 00 Freq Offset 01 Freq Offset 02 Freq Offset 03 Freq Offset 04 Freq Offset 05 Freq Offset 06 Freq Offset 07 Freq Offset 08 Freq Offset 09 Freq Offset 00 Freq Offset 01 Freq Offset 02 Freq Offset 03 Freq Offset 04 Freq Offset 05 Freq Offset 06 Freq Offset 07 Freq Offset 08 Freq Offset 08 Freq Offset 17	Graph Ref Lvl Offset 27.32 dB Span Aale/Div 10.0 dB Ref Value 40.00 dBm F Step 000 Auto Main 000 Feq Offset Hz 000 Freq Offset Hz 010 Freq Offset Hz 020 Freq Offset Hz <tr< td=""><td>Coupling: DC Align: Auto</td><td>Freq Ref: Int (S)</td><td>Atten: 20 dB Preamp: Off</td><td></td><td>Avg Hold: 500/500</td><td>2</td><td>2.59299000</td><td></td><td>Settings</td></tr<>	Coupling: DC Align: Auto	Freq Ref: Int (S)	Atten: 20 dB Preamp: Off		Avg Hold: 500/500	2	2.59299000		Settings
CF Step 14.00000 MHz Man Freq Offset Hz Coccupied Bandwidth 64.576 MHz Total Power 32.1 dBm	CF Step 14.000000 MHz Auto Man Freq Offset 0 0 0 0 0 0 0 0 0 0 0 0 0	Sraph 🔻								
Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm	Occupied Bandwidth 64.576 MHz Transmit Freq Error -1.8351 MHz % of OBW Power 99.00 %	g 0		kef Value 40.00	dBm				1Hz	
Preq Offset 0 Prev reter 2.59299 GHz #Video BW 6.0000 MHz Span 140 MHz s BW 1.5000 MHz Sons (1001 pts) etrics • Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm	Prev Offset 0 Hz Freq Freq Freq -1.8351 MHz Freq Freq Offset 9.00 %	0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	****	han a start a star				
O Image: Constraint of the second s	etrics v Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm Transmit Freq Error -1.8351 MHz % of OBW Power 99.00 %	0					PEAK 0			
ter 2.59299 GHz #Video BW 6.0000 MHz Span 140 MHz s BW 1.5000 MHz #Sweep 50.0 ms (1001 pts) etrics • Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm	ter 2.59299 GHz #Video BW 6.0000 MHz Span 140 MHz s BW 1.5000 MHz #Sweep 50.0 ms (1001 pts) etrics v Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm Transmit Freg Error -1.8351 MHz % of OBW Power 99.00 %	0								
Occupied Bandwidth 64.576 MHz Total Power 32.1 dBm	Occupied Bandwidth Total Power 32.1 dBm 64.576 MHz Total Power 99.00 %	nter 2.59299 GHz		Video BW 6.000	00 MHz					
64.576 MHz Total Power 32.1 dBm	64.576 MHz Total Power 32.1 dBm Transmit Freq Error -1.8351 MHz % of OBW Power 99.00 %	etrics v								
	Transmit Freq Error -1.8351 MHz % of OBW Power 99.00 %		76 MHz		Total Power	32.1 dBn				
		Transmit Freq Error	-1.8351 MH		% of OBW Pov	wer 99.00 %				Lo

Sub6 n41_70 M_OBW_Mid_QPSK_FullRB



EYSIGHT Input: RF L + Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg]Hold: 500/500 Radio Std: None	Center Frequency 2.592990000 GHz	ncy v 👬
Graph v cale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 d			Span 140.00 MHz	
og 80.0 20.0					CF Step 14.000000 MHz	
0.0			······	-	Auto Man	
10.0					PEAK 0 Hz	
30.0 10.0 50.0						
enter 2.59299 GHz Res BW 1.5000 MHz		∜Video BW 6.000	0 MHz	Span 140 #Sweep 50.0 ms (100		
Metrics v						
Occupied Bandwidth 64.4	1 482 MHz		Total Power	31.2 dBm		
Transmit Freq Error x dB Bandwidth	-1.8579 Mł 72.76 Mł		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Loca
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Sub6 n41_70 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+					Frequency	1
L + Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None	2.59299	Frequency 90000 GHz	Settings
Graph v		ef LvI Offset 27			Span 140.00	MHz	
ale/Div 10.0 dB		ef Value 40.00	dBm		CF Step 14.0000	000 MHz	
0.0	Janna				Aut Mai		
0.0				PEA	Freq Off 0 Hz	set	
0.0							
enter 2.59299 GHz Res BW 1.5000 MHz	. #	Video BW 6.000	00 MHz	Span 140 MH #Sweep 50.0 ms (1001 pts			
Metrics ¥							
Occupied Bandwidth 64.37	2 MHz		Total Power	30.3 dBm			
Transmit Freq Error x dB Bandwidth	-1.7553 MH 70.99 MH		% of OBW Pow x dB	er 99.00 % -26.00 dB			Loc
	Lun 44, 0004						
	Jun 11, 2024 3:47:57 PM						

Sub6 n41_70 M_OBW_Mid_64QAM_FullRB



Cocupied BW Input: RF KEYSIGHT Input: RF RL Coupling: DC Align: Auto WT PASS	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5929 Avg Hold: 500/500 Radio Std: None	90000 GHz		Frequency Frequency 90000 GHz	Settings
1 Graph ▼ Scale/Div 10.0 dB Log 20.0		Ref LvI Offset 27 Ref Value 40.00				140.00 CF Step	000 MHz	
10.0 0.00 10.0 20.0 30.0 40.0					PEAK	Freq Off 0 Hz	n	
-50.0 Center 2.59299 GHz #Res BW 1.5000 MHz 2 Metrics		#Video BW 6.000	00 MHz	#Sweep 50	Span 140 MHz .0 ms (1001 pts)			
Occupied Bandwidth 64.	n 525 MHz		Total Power	28	3.2 dBm			
Transmit Freq Error x dB Bandwidth	-1.8202 M 71.96 M		% of OBW Pow x dB		99.00 % 6.00 dB			Local
1 5 7 1	? Jun 11, 2024 3:48:44 PM	\square						

Sub6 n41_70 M_OBW_Mid_256QAM_FullRB



cupied BW		Atten: 20 dB	Trig: Free Run	Center Freg: 2.592990	000 CH-	\$	Frequency	
VSIGHT Input: RF Coupling: I Align: Auto	Corr CCorr Freq Ref: Int (S	Preamp: Off	Gate: Off #IF Gain: Low	Avg Hold: 500/500 Radio Std: None	000 GHZ		requency 0000 GHz	Settings
PASS raph T	NFE: Off	Ref LvI Offset 27	7.32 dB			Span 160.00 M	ИНz	
le/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 16.0000	00 MHz	
0		-^				Auto Man		
0					PEAK	Freq Offs 0 Hz	et	
0								
nter 2.59299 GHz es BW 1.6000 MHz		#Video BW 6.000	00 MHz		Span 160 MHz ms (1001 pts)			
etrics v								
Occupied Bandv								
	77.388 MHz		Total Power		dBm			
Transmit Freq E x dB Bandwidth	rror -394.36 84.49		% of OBW Pow x dB		.00 % 00 dB			Lo
	Jun 11, 2024 3:58:45 PM							

Sub6 n41_80 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5925 Avg Hold: 500/500 Radio Std: None	990000 GHz	Center Fr 2.59299 Span	Frequency equency 0000 GHz	Settings
1 Graph Scale/Div 10.0 dB Log 30.0 20.0		Ref LvI Offset 27 Ref Value 40.00 c				160.00 M CF Step 16.0000	00 MHz	
10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0					PEAK	Man Freq Offs 0 Hz		
Center 2.59299 GHz #Res BW 1.6000 MHz 2 Metrics		∜Video BW 6.000	0 MHz	#Sweep 50	Span 160 MHz).0 ms (1001 pts)			
Occupied Bandwidth 77.1	i 166 MHz		Total Power	33	2.2 dBm			
Transmit Freq Error x dB Bandwidth	-468.79 kl 85.42 M		% of OBW Pov x dB		99.00 % 6.00 dB			Local
	? Jun 11, 2024 3:59:35 PM	ÐA						

Sub6 n41_80 M_OBW_Mid_QPSK_FullRB



	Coupling: DC	Input Z: 50 Ω Corr CCorr	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off	Avg Hold: 500			Frequency	Settings
PASS	Align: Auto	Freq Ref: Int (S NFE: Off		#IF Gain: Low	Radio Std: No	ne		90000 GHz	
Graph	•	1001-000	Ref LvI Offset 27				Span 160.00	MHz	
ale/Div 10.0	dB		Ref Value 40.00	dBm			CF Step	000 MHz	
0.0 0.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		manny		Aut Ma	o	
00					- No	PEA	Freq Off	'set	
).0	and the second					*****			
0.0 enter 2.5929 Res BW 1.60			#Video BW 6.000	00 MHz	#Swe	Span 160 Mi ep 50.0 ms (1001 pt			
Metrics	•								
Occu	pied Bandwidth	0 MHz		Total Power		31.0 dBm			
	mit Freq Error	-463.59		% of OBW Pov	ver	99.00 %			
X dB	Bandwidth	85.99	MINZ	x dB		-26.00 dB			Loc
		Jun 11, 2024 4:00:22 PM	\odot						

Sub6 n41_80 M_OBW_Mid_16QAM_FullRB



Decupied BW KEYSIGHT Input: RF RL Coupling: DC Align: Auto Align: Auto	T Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.59299 Avg Hold: 500/500 Radio Std: None	0000 GHz	Center Free 2.5929900 Span	Settings
1 Graph Scale/Div 10.0 dB Log 20.0		ef LvI Offset 27 ef Value 40.00 (160.00 MH CF Step 16.000000	
10.0 0.00 -10.0 -20.0 -30.0 -40.0					PEAK	Man Freq Offset 0 Hz	
-50.0 Center 2.59299 GHz #Res BW 1.6000 MHz 2 Metrics	#	Video BW 6.000	00 MHz	#Sweep 50.0	Span 160 MHz 0 ms (1001 pts)		
Occupied Bandwidth 77.3	77 MHz		Total Power	30.	3 dBm		
Transmit Freq Error x dB Bandwidth	-442.58 kH 84.77 MH		% of OBW Pow x dB		9.00 % .00 dB		Local
1 つ つ つ	? Jun 11, 2024 4:01:09 PM			.:: 🔖			

Sub6 n41_80 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT RL +- Coupling: DC Align: Auto	H Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg Hold: 500/500 Radio Std: None		• 🔛
1 Graph v Scale/Div 10.0 dB Log 20 0 10 0		Ref Lvi Offset 27 Ref Value 40.00 c			CF Step 160.000 MHz CF Step 16.000000 MHz Auto Man	
0.00 -10.0 -20.0 -30.0 -40.0 -50.0 Center 2.59299 GHz #Res BW 1.6000 MHz		#Video BW 6.000	0 MHz	Span 10 #Sweep 50.0 ms (10		
2 Metrics v	1 205 MHz		Total Power	28.2 dBm		
Transmit Freq Error x dB Bandwidth	-416.05 k 84.76 M		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Local
1 5 C	? Jun 11, 2024 4:01:56 PM				X	

Sub6 n41_80 M_OBW_Mid_256QAM_FullRB



Cocupied BW KEYSIGHT Input: RF RL Aiign: Auto PASS	H Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 Avg Hold: 500/500 Radio Std: None) GHz		Frequency requency 0000 GHz	Settings
1 Graph v Scale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 (180.00 I CF Step	MHz 100 MHz	
20.0	/	`~~~~~	mana			Auto Mar	1	
10.0 20.0 30.0 40.0 50.0					PEAK	Freq Offs 0 Hz	set	
Center 2.59299 GHz Res BW 1.8000 MHz		Video BW 8.000	0 MHz	sp #Sweep 50.0 ms	an 180 MHz s (1001 pts)			
2 Metrics	34 MHz		Total Power	32.6 dE	Зm			
Transmit Freq Error x dB Bandwidth	-666.36 k 94.85 M		% of OBW Pow x dB	ver 99.00 -26.00				Local
1501	? Jun 11, 2024 4:11:58 PM	$\odot \land$						

Sub6 n41_90 M_OBW_Mid_BPSK_FullRB



Cocupied BW Input: RF KEYSIGHT Input: RF R L Coupling: DC Align: Auto CV PASS	H Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5929900 Avg Hold: 500/500 Radio Std: None	00 GHz		Frequency requency 00000 GHz	Settings
1 Graph V Scale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 d				180.00 I CF Step		
20.0 10.0 0.00 -10.0	/	*******	annaller haranakana			Auto Mar	1	
-20 0 -20 0 -40 0 -50 0 -50 0 Center 2.59299 GHz		Video BW 8.000			PEAK.	0 Hz		
2 Metrics			5 MIT2	#Sweep 50.0 r				
Occupied Bandwidth 86.9	81 MHz		Total Power	32.2	dBm			
Transmit Freq Error x dB Bandwidth	-459.85 kł 95.27 Mł		% of OBW Pow x dB	ver 99.0 -26.0	00 % 0 dB			Local
₩ ₽₽	? Jun 11, 2024 4:12:45 PM							

Sub6 n41_90 M_OBW_Mid_QPSK_FullRB



SYSIGHT Input: RF Coupling: DC Align: Auto PASS		Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fred Avg Hold: 5 Radio Std: 1			Frequency 90000 GHz	Settings
Graph 🔻		f LvI Offset 27.				180.00	MHz	
ale/Div 10.0 dB	Re	f Value 40.00 d	Bm	\square		CF Step 18.000) 000 MHz	
.0	Junio		mat management			Aut Ma		
00 .0					PEAK	Freq Of 0 Hz	fset	
.0								
nter 2.59299 GHz es BW 1.8000 MHz	 Vie	deo BW 8.0000) MHz	 #Sv	Span 180 MH; weep 50.0 ms (1001 pts			
fetrics v Occupied Bandwidth 86.68	37 MHz		Total Power		31.1 dBm			
Transmit Freq Error	-573.37 kHz 94.68 MHz		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc

Sub6 n41_90 M_OBW_Mid_16QAM_FullRB



ectrum Analyzer 1	+						\$	Frequency	
EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Avg H	r Freq. Iold: 50 Std: Ne		2.5929	Frequency 90000 GHz	Settings
Graph 🔻		ef Lvi Offset 27					Span 180.00	MHz	
ale/Div 10.0 dB	R	ef Value 40.00 (jBm				CF Step 18.000) 000 MHz	
0.0	Junuar		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m			Aut Ma		
00						PEAF	Freq Of 0 Hz	fset	
0.0				+	~	uniget for a general data and a second and a s			
o.o Inter 2.59299 GHz Les BW 1.8000 MHz	V	ideo BW 8.000	0 MHz		#Swe	Span 180 MH eep 50.0 ms (1001 pts			
Metrics ¥									
Occupied Bandwidth	93 MHz		Total Power			30.4 dBm			
	-528.75 kH	7	% of OBW Pov	ver		30.4 dBm 99.00 %			-
Transmit Freq Error	93.75 MH		x dB	VCI		-26.00 dB			Loo

Sub6 n41_90 M_OBW_Mid_64QAM_FullRB



KEYSIGHT Input: RF R L Align: Auto	+ Input Z: 50 Ω Corr CCorr Freq Ref. Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5929 Avg Hold: 500/500 Radio Std: None	90000 GHz	Center Frequency 2.592990000 GHz	ey v 🔆
I Graph V Scale/Div 10.0 dB 00 20 0 0		Ref LvI Offset 27. Ref Value 40.00 d				Span 180.00 MHz CF Step 18.000000 MHz	
10.0 0.00 -10.0 -20.0 -30.0 -40.0					PEAK	Auto Man Freq Offset 0 Hz	
-50.0 Center 2.59299 GHz #Res BW 1.8000 MHz 2 Metrics		Video BW 8.000) MHz	#Sweep 50	Span 180 MHz .0 ms (1001 pts)		
Occupied Bandwidth 86.9	08 MHz		Total Power	28	3.4 dBm		
Transmit Freq Error x dB Bandwidth	-523.62 kl 94.23 Mi		% of OBW Pow x dB		99.00 % 6.00 dB		Local
4 7 C 1 (? Jun 11, 2024 4:15:06 PM						

Sub6 n41_90 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT RL + Auto	+ Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GHz Avg[Hold: 500/500 Radio Std. None	Center Frequency 2.592990000 GHz	Settings
Cv PASS 1 Graph v Scale/Div 10.0 dB 20.0 20.0 20.0 10.0 00		Ref LvI Offset 27 Ref Value 40.00 o			Span 200.00 MHz CF Step 20.000000 MHz Auto Man	
-10.0 -20.0 -30.0 -40.0 -50.0 Center 2.5930 GHz #Res BW 2.0000 MHz		Video BW 8.000	0 MHz	Span 200 #Sweep 50.0 ms (100		
2 Metrics v	n 627 MHz		Total Power	32.6 dBm		
Transmit Freq Error x dB Bandwidth	-703.75 kH 104.0 MH		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Local
1 7 7 1	? Jun 11, 2024 4:25:09 PM				X	

Sub6 n41_100 M_OBW_Mid_BPSK_FullRB



Cocupied BW KEYSIGHT Input: RF R L Align: Auto DOCUPIED DOCUPI		Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.59299 Avg Hold: 500/500 Radio Std: None	90000 GHz		Frequency Frequency 90000 GHz	Settings
1 Graph v Scale/Div 10.0 dB Log		f LvI Offset 27. f Value 40.00 d	Contraction of Contra			200.00 CF Step		
20.0	1	· · · · · · · · · · · · · · · · · · ·	~~~~~~			Aut Ma	n	
-10.0 -20.0 -30.0 -40.0 -50.0					PEAK	Freq Of 0 Hz	fset	
Center 2.5930 GHz #Res BW 2.0000 MHz 2 Metrics	#V	ideo BW 8.000	0 MHz	#Sweep 50.	Span 200 MHz 0 ms (1001 pts)			
Occupied Bandwidth 96.38	34 MHz		Total Power	32	.3 dBm			
Transmit Freq Error x dB Bandwidth	-690.41 kHz 104.1 MHz		% of OBW Pow x dB		9.00 % 5.00 dB			Local
1 7 7 1 1	Jun 11, 2024 4:25:56 PM				; X			

Sub6 n41_100 M_OBW_Mid_QPSK_FullRB



Deccupied BW KEYSIGHT Input: RF RL Coupling: DC Align: Auto Align: Auto	H Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.592990000 GH Avg Hold: 500/500 Radio Std: None	Center Fr	equency Settings
1 Graph v Scale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 c			200.00 M CF Step 20.00000	
20.0 10.0 10.0 20.0	1				PEAK 0 Hz	S.
30.0 40.0 50.0						
Center 2.5930 GHz Res BW 2.0000 MHz 2 Metrics		#Video BW 8.000	0 MHz	Span 2 #Sweep 50.0 ms (10	200 MHz 001 pts)	
Occupied Bandwidth 96.1	64 MHz		Total Power	31.1 dBm		
Transmit Freq Error x dB Bandwidth	-729.33 kł 104.1 Mł		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Loc
1 7 7 1	? Jun 11, 2024 4:26:42 PM				X	

Sub6 n41_100 M_OBW_Mid_16QAM_FullRB



Spectrum Analyz Occupied BW	zer 1 🔻	+						Frequency	- • 😤
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg Hold: Radio Std:		2.5929	Frequency 90000 GHz	Settings
1 Graph	•		Ref LvI Offset 27				Span 200.00	MHz	
cale/Div 10.0 (dB		Ref Value 40.00	dBm				000 MHz	
10.0		1			m		Aut Ma		
10.0	and a second and a second and a second					PEA	Freq Of K 0 Hz	fset	
30.0 40.0 50.0									
enter 2.5930 C			#Video BW 8.000	00 MHz	 #S	Span 200 MH weep 50.0 ms (1001 pt			
2 Metrics	•								
Occup	ied Bandwidth								
		12 MHz		Total Power		30.4 dBm			
	mit Freq Error andwidth	-768.23 104.8 M		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
1 50		Jun 11, 2024 4:27:29 PM	\odot			# 🔛 🗙			

Sub6 n41_100 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF RL + Coupling: DC Align: Auto	H Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	r CCorr Preamp: Off Gate: Off Avg Hold: 500/500 q Ref. Int (S) #IF Gain: Low Radio Std: None				10	Center F 2.59299 Span	Settings		
1 Graph v Scale/Div 10.0 dB	Ref LvI Offset 27.32 dB							200.00 CF Step		
20.0			~~~~~~		\			Auto Mar	D	
-10.0 -20.0 -30.0					1	where the second second	PEAK	Freq Off 0 Hz	set	
-40.0										
Center 2.5930 GHz #Video BW 8.0000 MHz Span 200 MHz #Res BW 2.0000 MHz #Sweep 50.0 ms (1001 pts)										
2 Metrics v Occupied Bandwidth 96.7(D7 MHz		Total Power			28.3 dBm				
Transmit Freq Error x dB Bandwidth	-750.52 kł 105.5 Mł		% of OBW Pow x dB	ver		99.00 % -26.00 dB				Local
1 7 7 1	Jun 11, 2024 4:28:17 PM	ÐA					X			

Sub6 n41_100 M_OBW_Mid_256QAM_FullRB





Sub6 n41_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





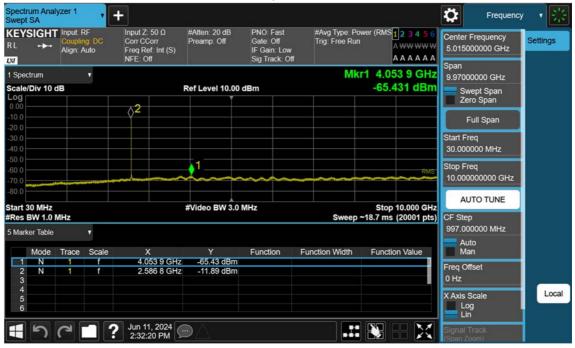
Sub6 n41_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





Sub6 n41_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





Sub6 n41_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





Sub6 n41_20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





Sub6 n41_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





Sub6 n41_30 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





Sub6 n41_30 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





Sub6 n41_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





Sub6 n41_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





Sub6 n41_50 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





Sub6 n41_50 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





Sub6 n41_50 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB