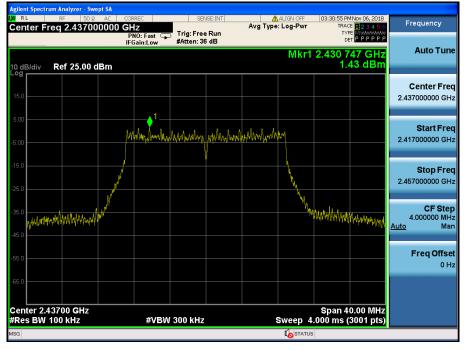
RL RF	50 Ω 🚹 DC 🛛 COI	RREC	SENSE:INT	<u> </u>	ALIGN OFF	03:28:54 PM	Nov 06, 2018	_
enter Freq 15	.004500 MHz P		rig: Free Run Atten: 36 dB	Avg Type	: Log-Pwr	TRACE TYPE DE	123456 MWWWWWW PPPPPP	Frequency
dB/div Ref 2	25.00 dBm				Mkr	2 11.367 -56.0	3 MHz 9 dBm	Auto Tun
<b>6 g</b> 5.0 5.00								Center Fre 15.004500 M⊦
5.0 5.0 5.0 1							<del>17-48 dBm</del>	<b>Start Fre</b> 9.000 kF
5.0 5.0 5.0	uginari,tandapataginali,giliki,gilipi	2 Hollowarfiadelieseebore	ptration/instructionst	enis, predstation selektion	an transfering the	han an a	the the second	<b>Stop Fre</b> 30.000000 MH
tart 9 kHz Res BW 100 kl <sup>MODE</sup> TRC SCL	Hz ×	#VBW 30			weep 5.3	Stop 30 33 ms (40		CF Ste 2.999100 Mi uto Mi
N 1 f N 1 f	281.9 11.367 3 M	kHz -39.	09 dBm 09 dBm			Толеном		Freq Offs 0 I
			ili					

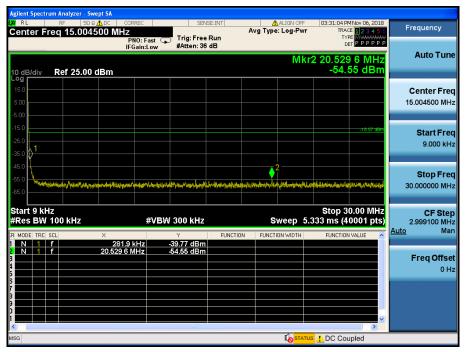
Agilent Spectrum Analyzer - Swept S					
L RF 50Ω A	C CORREC	SENSE:INT	ALIGN OFF	03:30:05 PM Nov 06, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 🖵	Trig: Free Run #Atten: 36 dB		TYPE MWAAAAAAAA DET P P P P P P	
	IFGain:Low	#Atten: 36 dB			Auto Tune
			IVIKE	5 3.037 70 GHz -40.38 dBm	
10 dB/div Ref 25.00 dBr	m			-40.00 0.011	
15.0	-0 <sup>1</sup>				Center Freq
5.00					5.015000000 GHz
-5.00					
-15.0				-17.48 dBm	Start Freq
-25.0					30.000000 MHz
-35.0	2 534				30.000000 Mil 12
-45.0	an the second state of the second second		and the reason of the transmission of transmission of the transmission of transmis	ang dan dina katalah kang sa di dalam katala sa sa di	
-55.0				an a	Stop Freq
-65.0					10.00000000 GHz
Start 30 MHz		0.0.8411-	<b>e</b>	Stop 10.000 GHz	CF Step
#Res BW 1.0 MHz	#4844	3.0 MHz		.67 ms (40001 pts)	997.000000 MHz Auto Man
R MODE TRC SCL X	418 06 GHz	Y FUNCTIO	N FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> muri
2 N 1 f 2.	573 10 GHz 🚽 🔾	39.57 dBm			Eren Offerst
4 N 1 f 3.:	269 50 GHz →	39.93 dBm 40.18 dBm			Freq Offset 0 Hz
5 N 1 f 3.0	037 70 GHz 🚽	40.38 dBm			0112
ž in the second se					
9					
				×	
<		10		<u>&gt;</u>	
MSG			to status		

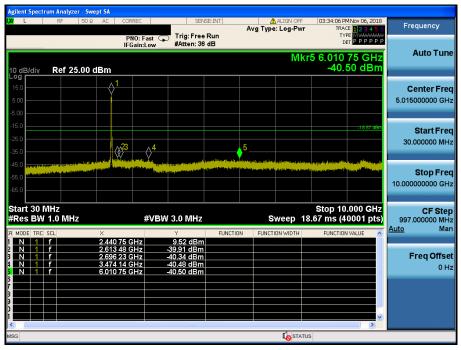


### TM 4 & ANT 1 & 2437

#### Reference



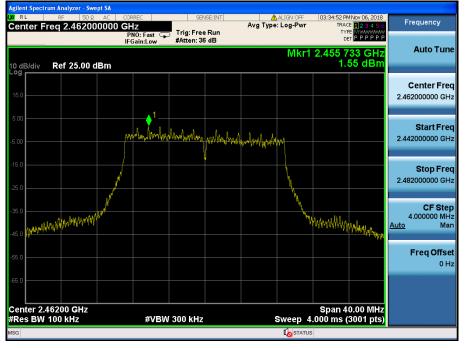




Agilent Spectr	um Analyzer - S	wept SA					
LXI RL	RF 50		SEN	SE:INT	ALIGN OFF		Frequency
Center F	req 17.500	0000000 GHz	ast 🕟 Trig: Free	Pun	Avg Type: Log-Pw	TRACE 123456 TYPE MWWWWW	rrequency
		PNO: F IFGain:		dB		DETPPPP	
					Mkr	24.386 875 GHz	Auto Tune
					INIKIG	-31.45 dBm	
10 dB/div Log	Ref 25.00	dBm				-51.45 UBIII	
15.0							Center Freq
5.00							17.50000000 GHz
-5.00							
-15.0						-18 57 dBm	Otart From
-25.0							Start Freq
						W X Y	10.00000000 GHz
-35.0		and the second					
-45.0			انتكار الطائدة بالكند بالكند				
-55.0							Stop Freq
-65.0							25.00000000 GHz
-65.0							
Start 10.0	00 GHz				1	Stop 25.000 GHz	CF Step
#Res BW			#VBW 3.0 MHz		Sweep 4	40.00 ms (40001 pts)	1.500000000 GHz
				C NOTION			Auto Man
R MODE TRC	SCL F	× 23.924 875 GHz	۲ -30.08 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
2 N 1	f	23.454 625 GHz	-30.31 dBm				
3 N 1	f	23.261 500 GHz	-30.45 dBm				Freq Offset
		24.490 750 GHz 24.386 875 GHz	-30.97 dBm -31.45 dBm				0 Hz
5		24000 010 0112	-01.40 dBill				
(							
5							
1						~	
			III.		1	>	
MSG					<b>Г<sub>Ю</sub>STA</b>	TUS	

### TM 4 & ANT 1 & 2462

#### Reference

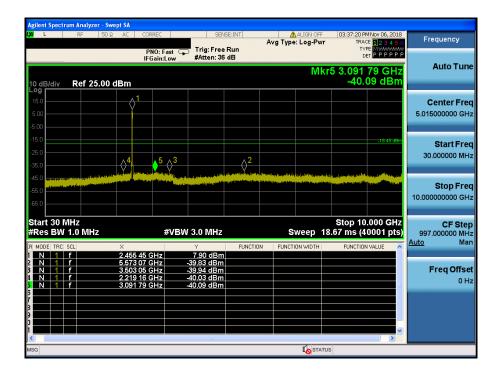


### **High Band-edge**





	50 Ω 🛕 DC 🛛 CORREC	SENS	E:INT	ALIGN OFF		Frequency
Center Freq 15.00	J4300 MHZ PNO: Fast IFGain:Lov		Run		TYPE MWWWWW DET P P P P P P T2 27.669 7 MHz	Auto Tune
10 dB/div Ref 25.0	00 dBm				-56.04 dBm	Center Freq 15.004500 MHz
-5.00 -15.0 -25.0 -35.0					-18.45 dBm	Start Freq 9.000 kHz
-45.0	iestal agasthesissinatid iyordinatidenedi	n han han an a	illai,terindutterie	ant the first of the second	2 Histowethouteget, Authorstones, SHAlly and	Stop Freq 30.000000 MHz
Start 9 kHz #Res BW 100 kHz		BW 300 kHz	5.002100		Stop 30.00 MHz 5.333 ms (40001 pts)	CF Step 2.999100 MHz Auto Man
Image         TRC         SCL           1         N         1         f           2         N         1         f           3	× 282.7 kHz 27.669 7 MHz	√ -41.41 dBm -56.04 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
5 7 3 9 0						
MSG					TUS 1 DC Coupled	







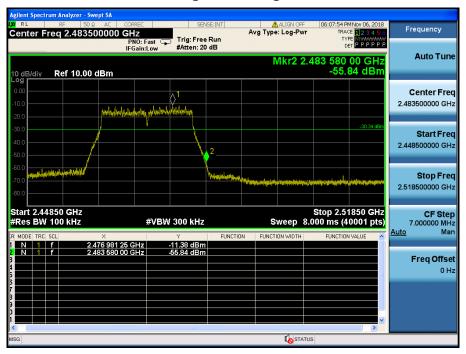


## TM 4 & ANT 1 & 2472



#### Reference

### **High Band-edge**



Agilent Spectr	um Analyzer - 1 RF 50									
	req 15.00		CORREC		SE:INT		ALIGN OFF	TRAC	MNov 06, 2018 E <b>1 2 3 4 5 6</b>	Frequency
			PNO: Fast IFGain:Low	Trig: Free #Atten: 20				TY D		
10 dB/div	Ref 10.0	0 dBm					Mkr	2 19.87 -71.	l 3 MHz 33 dBm	Auto Tune
-10.0										Center Fred 15.004500 MHz
-30.0									-30.34 dBm	Start Freq 9.000 kHz
-60.0	reteljiske ateliketike	ant des mail the based as	hite and the street of the	Vusteriorourismonthal	heraisidekter	2	ed alle to all the last	Arytherestations	nadinationalitication	Stop Frec 30.000000 MHz
Start 9 kH #Res BW	100 kHz		#VE	300 kHz			weep 5.	333 ms (4		CF Step 2.999100 MH Auto Mar
R MODE TRC		× 282. 19.871 3	7 kHz 8 MHz	7 -57.43 dBm -71.33 dBm	FUNCTI	DN FUNCT	ON WIDTH	FUNCTION	I VALUE	Freq Offset 0 Hz
<									>	
ISG								🛚 🧘 DC Coi	upled	

Agilent Spec												
<b>lxi</b> L	RF	50 Ω	AC	CORRE	5	SEN	ISE:INT		ALIGN OFF	TRA	MNov 06, 2018 E 1 2 3 4 5 6	Frequency
				PNO: IFGai	Fast 🖵	Trig: Free #Atten: 20			-	TY D	PE MWWWWWW ET P P P P P P	
	-			IFGal	II.LOW	HIRCOIL 24			Mk	r5 5.638	13 GHz	Auto Tune
10 dB/div	Re	f 10.00	dBm						IVIN		72 dBm	
				1								0
-10.0			ΙY									Center Freq 5.015000000 GHz
-20.0												3.013000000 GHZ
-30.0											-30.34 dBm	
-40.0												Start Freq
-50.0				2,4			5					30.000000 MHz
	و فالحد ، و		a same	a manager	Mayor.	المعمر المربية المربي والم	Copensite Artigated	and balance produc	and the second	an explored based	Support States and	
-70.0	al an air an	وأطوران والمرتام والماري	المحمر ا		and an art	and the second second	and the second	and an and a second s	and the second secon	a and a second	and the second	Stop Freq
-80.0												10.00000000 GHz
Start 30 #Res BV		MILI-7			#\/D\A	/ 3.0 MHz			weep 1	Stop 10 8.67 ms (4	.000 GHz	CF Step 997.000000 MHz
		VINZ			#VDV		51010710			· ·		Auto Man
R MODE TRO	f		× 2.475	5 39 GH		≺3.37 dBm		IN FUNCT	ION WIDTH	FUNCTION	VALUE	
2 N 1 3 N 1	f		2.419	06 GH		-53.25 dBm -55.49 dBm						Freq Offset
4 N 1 5 N 1	f		2.637	7 16 GH 3 13 GH	z	-55.61 dBm -55.72 dBm						0 Hz
5			0.000		-	-00.72 ubiii						
3												
1											~	
MSG						110			<b>I</b> STATI	JS		
			_		_							

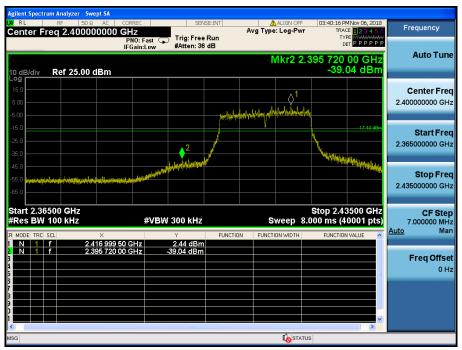


### TM 5 & ANT 1 & 2412

#### Reference

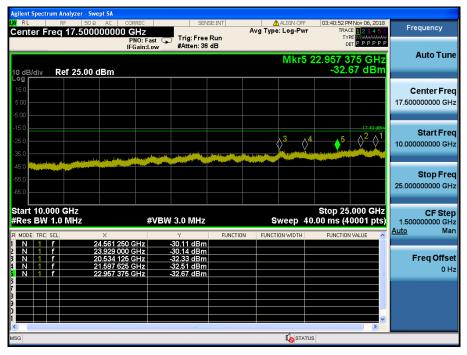


### Low Band-edge



		wept SA Ω ▲ DC CORREC	SEN:	SE:INT	ALIGN OFF		1Nov 06, 2018 E <b>1 2 3 4 5 6</b>	Frequency
Senter F	req 15.004	-500 MIHZ PNO: Fa IFGain:L		Run	wg Type. Log-rwi	TYP	E MWWWWWW TPPPPP	
10 dB/div	Ref 25.00	dBm			Mk	r2 29.668 -55.5	6 MHz 58 dBm	Auto Tune
15.0 5.00								Center Free 15.004500 MH:
-15.0 -25.0 -35.0							<u></u>	Start Free 9.000 kH
-45.0 -55.0 -65.0	an a	haranan ana ana ana ana ana ana ana ana a	anteriorante for fortage in a start water	induktion and the states of the	enthere and the second processing the	ailaddalaewird <sup>y</sup> ladydyna	with work of the second se	<b>Stop Fre</b> 30.000000 MH
start 9 kH						Stop 30	0.00 MHz	
			VBW 300 kHz			.333 ms (4)		2.999100 MH
	SCL	# 281.9 kHz 29.668 6 MHz	₩BW 300 kHz ¥ 40.52 dBm -55.58 dBm	FUNCTION	Sweep 5	.333 ms (4)		2.999100 MH <u>Auto</u> Ma <b>Freq Offse</b>
	SCL f	× 281.9 kHz	۲ -40.52 dBm	FUNCTION		```		CF Step 2.999100 MH Auto Mar Freq Offse 0 H:

Agilent	Spect																
L <mark>XI</mark> L		F	F	50 Ω	AC	(	CORREC		SEI	NSE:INT	ΑναΤι	ALIGN OF pe: Log-P			M Nov 06, 2018 CE 12345 (		Frequency
							PNO:	Fast Ģ	Trig: Fre			pe. Log i i		TY			
_							IFGain	:Low	#Atten: 3	5 dB							Auto Tune
												M	kr5 (		11 GHz 34 dBm		Auto Funo
10 dB. Log r	/div	R	ef 25	.00 c	iBn	1	_		1					-40.	34 ubm		
15.0						.} <mark>1</mark>											Center Freq
5.00						<u> </u>											5.015000000 GHz
-5.00																	
-15.0															17.40 dBm		
-25.0																	Start Freq
-35.0						_∆2		3			5 \4						30.000000 MHz
15.0				No. and		Hura	, K	and the	off and second discounter		Kananana	and the second states	land a super-	و و و و و و و و و	وروي والمتأثث وروجه		
-55.0	aldalaaruu			-	(adulat	معلمظار	in the	aleas and the second second	and the second second second	مد يغطفوالمسار (	and the local data from the			and the state of the	and an other states of the second		Stop Freq
-65.0																1	0.000000000 GHz
-65.0																	
Start															.000 GHz		CF Step
#Res	BW	1.0	MHz					#VBV	/ 3.0 MHz			Sweep	18.67	7 ms (4	0001 pts)		997.000000 MHz
R MODE	TRC				Х				Y	FUNCTI	DN FUN	CTION WIDTH		FUNCTIO	N VALUE	A	<u>uto</u> Man
1 N	1	f			2.4	17 82 54 90	2 GHz ) GHz		10.55 dBn -39.67 dBn								
3 N	1	f			3.1	54 3	5 GHz		-39.72 dBm								Freq Offset
4 N 5 N	1	f			6.0 5.8	74.50 08.11	5 GHz 1 GHz		-39.99 dBm -40.34 dBm						-		0 Hz
6																	
8																	
6																	
1															~		
MSG	_	_		_		_	_	_				I st	ATUS	_	>		
mod		_			_							10 <sup>31</sup>	103				

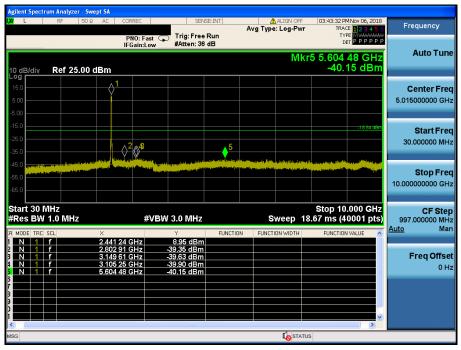


### TM 5 & ANT 1 & 2437

### Reference



	rum Analyzer -						
LXIRL		DΩ 🗘 DC 📔 CORRE	C SEN	SE:INT	ALIGN OFF		Frequency
Center F	req 15.00		: Fast 🖵 Trig: Free n:Low #Atten: 36	Run	wg Type. Log-Fwi		
10 dB/div	Ref 25.0	0 dBm			Mk	r2 27.926 1 MHz -55.31 dBm	Auto Tune
Log 15.0 5.00							Center Freq 15.004500 MHz
-15.0 -25.0 -35.0						-16,54 dBm	Start Freq 9.000 kHz
-45.0 -55.0 -65.0	yanahalana a	heelikusseksin terpisaasiyadah	verel forget sight of provided book rectange	atribed spirite and to be the	Malanatinpatricialisticades	1 millionistanakai.tekonakai.tekonakai.tekonakai.tekonakai.tekonakai.tekonakai.tekonakai.tekonakai.tekonakai.te	Stop Freq 30.000000 MHz
Start 9 kH #Res BW	100 kHz	×	#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz 5.333 ms (40001 pts) FUNCTION VALUE	CF Step 2.999100 MHz Auto Man
	f	281.9 kH 27.926 1 MH	z -41.01 dBm		PONCTION WIDTH		Freq Offset 0 Hz
5 7 3 9 0 1							
MSG			110			<mark>vs</mark> ♪DC Coupled	



Agilent Spectrum Anal	yzer - Swept SA						
LXI RL RF	50 Ω AC COR		ISE:INT	ALIGN OFF	03:42:55 PM N	ov 06, 2018	Frequency
Center Freq 1	7.500000000 G PI IFG	IIZ IO: Fast Trig: Free Gain:Low #Atten: 36	Run	/g Type: Log-Pwr	TYPE	123456 M <del>MMMM</del> PPPPPP	
	05.00 18			Mkr5	24.737 50 -32.12		Auto Tune
10 dB/div Ref	25.00 dBm				-02.12	. abiii	
15.0 5.00							Center Freq 17.50000000 GHz
-5.00						-18 54 dBm	
-25.0				3	4	$\uparrow^1$	Start Freq 10.00000000 GHz
-35.0	أسلحه والمحر والمعرا ومعالية أحدار والما					Constant of the second	
-55.0							<b>Stop Freq</b> 25.00000000 GHz
-65.0							20.00000000000000
Start 10.000 GI #Res BW 1.0 M		#VBW 3.0 MHz		Sweep 40	Stop 25.0 0.00 ms (400	001 pts)	CF Step 1.50000000 GHz
R MODE TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VA	LUE 🔼	<u>Auto</u> Man
1 N 1 f 2 N 1 f 3 N 1 f	23.983 000 G 24.527 875 G 20.606 125 G	Hz -30.77 dBm					Freq Offset
4 N 1 F 5 N 1 F	23.183 500 G 24.737 500 G	Hz -31.37 dBm					0 Hz
7							
MSG				<b>I</b> STATU	IS		

### TM 5 & ANT 1 & 2462

#### Reference



### **High Band-edge**



Agilent Spectr	um Analyzer - Si RF 50	wept SΛ Ω ⚠ DC CORR	EC	SENSE:IN	П		ALIGN OFF	03:46:21 P	MNov 06, 2018	
	req 15.004	500 MHz	D: East	rig: Free Rui Atten: 36 dB	A		: Log-Pwr	TRA	CE 123456 PE MWWWWW ET P P P P P	Frequency
10 dB/div	Ref 25.00		III.LOW				Mk	r2 24.30( -55.	0 2 MHz 15 dBm	Auto Tune
15.00										Center Freq 15.004500 MHz
-15.0 -25.0 -35.0									-18.30 dBm	Start Fred 9.000 kHz
-45.0 -55.0 -65.0	fortheast growing the state of the	erðurföldugt stáðurar maringal	urroofiild, soa isopaath	di doman ta kati kati kati kati kati kati kati k	uper a long of the long of the	naji Asripa	eynn na anna ann ann ann ann ann ann ann	2 Malamatikapilita	ahumamundadi)	Stop Freq 30.000000 MHz
Start 9 kH #Res BW	100 kHz	×	#VBW 30		FUNCTION		weep 5.	Stop 3 .333 ms (4		CF Step 2.999100 MH Auto Mar
	f	284.9 kl 24.300 2 Mł	Hz -41.	16 dBm 15 dBm	FONCTION	PONCT		PONCHOI		Freq Offset 0 Hz
MSG							STATI	JS L DC Co		

	um Analyzer - Si									
LXI L	RF 50	ΩAC	CORREC		SENSE:INT	Ava	ALIGN OFF		MNov 06, 2018 CE 123456	Frequency
			PNO: F		ee Run		.,,	T)		
			IFGain:	Low #Atten:	36 dB					Auto Tune
							M	(r5 2.662	58 GHz 19 dBm	
10 dB/div Log	Ref 25.00	dBm						-40.	та авш	
15.0										Center Freq
5.00		— ¥_								5.015000000 GHz
-5.00										
-15.0									-18.30 dBm	
-25.0									10.00 000	Start Freq
-35.0			54 V			_ <mark>∕</mark> 2				30.000000 MHz
		A DESCRIPTION OF THE OWNER	A	alate	and the state of the	Martine	in the second	فأفريد ليرتقلهم وترققك	ويتعادك ويرامه	
-45.0	a subal a subal suba Subal subal sub	and the second se				and the second second	and and a second second		and and the second	Stop Freq
-55.0										10.00000000 GHz
-65.0										
Start 30 N	/Hz							Stop 10	.000 GHz	CF Step
#Res BW	1.0 MHz			#VBW 3.0 MH	z		Sweep 1	18.67 ms (4	.0001 pts)	997.000000 MHz
R MODE TRC		×		Y	FUNCT	TION F	UNCTION WIDTH	FUNCTIO	N VALUE	<u>Auto</u> Man
	f	2.455 4 5.949 6		7.92 dE -39.66 dE						
3 N 1	f	2.640 4	0 GHz	-39.97 dE	m					Freq Offset
1 N 1 5 N 1	f	2.796 6		-40.16 dE -40.19 dE					=	0 Hz
5										
3										
9										
1									~	
MSG			_				I STAT	210	>	
Mag								05		

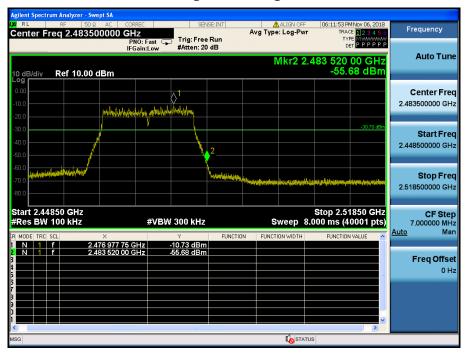


## TM 5 & ANT 1 & 2472



#### Reference

### **High Band-edge**



XI RL		Ω 🧥 DC 🔋 CORREC	SEN	SE:INT		ALIGN OFF		4Nov 06, 2018	Frequency
Center Fi	req 15.004		ast 🕞 Trig: Free .ow #Atten: 20		Avg Type	: Log-Pwr	TRAG TY D	<sup>се</sup> <b>12345</b> 6 Реминиция Трррррр	
10 dB/div	Ref 10.00	dBm				Mkr:	2 22.55′ -71.	l 0 MHz 15 dBm	Auto Tune
-10.0									Center Freq 15.004500 MHz
-30.0								-30.70 dBm	Start Freq 9.000 kHz
-60.0 -70.0	nya daga kana kata kata kata kata kata kata kat	yerilə Shifi dariy sanaşilar folkaçar	eyinara babbah yipang antai yarreyar	tratucturation	wasenan	2 www.hiathupar.du	na kana kana kana kana kana kana kana k	s-alistatikanghin	Stop Frec 30.000000 MHz
Start 9 k⊦ #Res BW	100 kHz		¥VBW 300 kHz				333 ms (4		CF Step 2.999100 MH: Auto Mar
R MODE TRC N 1 N 1		× 281.9 kHz 22.551 0 MHz	√ -56.48 dBm -71.15 dBm	FUNCTION	FUNCTI	ON WIDTH	FUNCTION		Freq Offset 0 Hz
< ISG			111			The STATUS	DC Cou		

Agilent Spectrum Analyzer - Swept S					
<b>LXI</b> L RF 50Ω A	C CORREC	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	06:13:09 PM Nov 06, 2018 TRACE 1 2 3 4 5 6	Frequency
		Trig: Free Run #Atten: 20 dB		TYPE M WAAAAAAAA DET P P P P P P	
	IFGain:Low	#Atten: 20 dB	Mice		Auto Tune
10 dB/div Ref 10.00 dBr	m		IVIKT	5 5.286 43 GHz -55.85 dBm	
Log 0.00					Center Freq
-10.0					5.015000000 GHz
-20.0					
-30.0				-30.70 dBm	
-40.0					Start Freq
-50.0	0 <sup>2</sup>	5/	3		30.00000 MHz
-60.0	and interest of the Property of	have been been been been been	and the second state of the second	A Long and the long states in a	
-70.0 with containing a differ of the sector and the sector	and the second design of the	and the second	and the second	in the party of the second differences	Stop Freq
-80.0					10.00000000 GHz
Start 30 MHz		0 B411-	<b>a</b>	Stop 10.000 GHz	CF Step
#Res BW 1.0 MHz	#VBW 3			3.67 ms (40001 pts)	997.000000 MHz Auto Man
R MODE TRC SCL X		Y FUNCTION 3.67 dBm	FUNCTION WIDTH	FUNCTION VALUE	<u>rtato</u> mari
2 N 1 f 2.4	419 56 GHz -53	3.67 dBm			Freq Offset
1 N 1 f 5.	871 17 GHz -55	5.40 dBm 5.68 dBm			0 Hz
5 N 1 f 5.:	286 43 GHz -55	5.85 dBm			0112
5					
2					
<		111	1		
MSG				S	

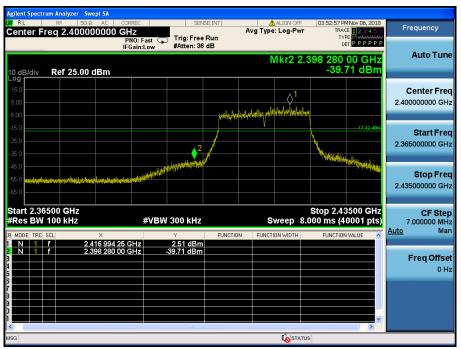
	RF 50	JΩ AC	CORREC	SEN	ISE:INT	ALIGN OFF	06:12:29 PM Nov 06, 201	8
enter F	req 17.50	000000	0 GHz PNO: Fast IFGain:Lov	Trig: Free #Atten: 20		Avg Type: Log-Pwr	TRACE 12345 TYPE MWWWW DET P P P P	P
0 dB/div	Ref 10.0	0 dBm				Mkr5	20.583 250 GH -47.63 dBr	Z Auto Tur 1
								Center Fre 17.500000000 GH
30.0 10.0 50.0						5-4	-30.70 dE	Start Fre
0.0 0.0 0.0 0.0								<b>Stop Fro</b> 25.000000000 GI
	000 GHz		#\	/BW 3.0 MHz		Sweep 4	Stop 25.000 GH 0.00 ms (40001 pts	
Res BW							· · · · · · · · · · · · · · · · · · ·	Auto Ma
		× 23.962 0 23.648 1 24.544 0 21.211 7 20.583 2	00 GHz 25 GHz 00 GHz 50 GHz	45.75 dBm 46.90 dBm 47.09 dBm 47.11 dBm 47.63 dBm		FUNCTION WIDTH		Auto M
MODE TRC N 1 N 1 N 1 N 1	SCL f f f f	23.962 0 23.648 1 24.544 0 21.211 7	00 GHz 25 GHz 00 GHz 50 GHz	¥ -45.75 dBm -46.90 dBm -47.09 dBm -47.11 dBm		FUNCTION WIDTH	FUNCTION VALUE	Auto Ma

### TM 6 & ANT 1 & 2412

#### Reference



### Low Band-edge



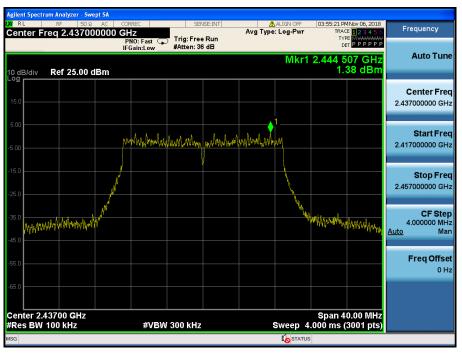
X/RL			RREC	SEN	ISE:INT		ALIGN OFF		MNov 06, 2018	Frequency
Center F	req 15.004	P	PNO: Fast C Gain:Low	Trig: Free #Atten: 36		Avg Type	: Log-Pwr	TRAC TY D	CE 123456 PE MWWWWWW ET P P P P P P	Trequency
10 dB/div	Ref 25.00		Guineow				Mkr		3 5 MHz 47 dBm	Auto Tune
15.0 5.00										Center Fred 15.004500 MH:
-15.0 -25.0 -35.0									17.42 dBm	Start Free 9.000 kH;
-45.0 -55.0	Mailettelsternerensatione	nlinduning	Nordally Villager has	userstan saine disatetete	alen og af stør spærk akter et	nakorsindosinda	an a	hayattayan	2 	
-55.0 -65.0 Start 9 kH #Res BW	Hz / 100 kHz			W 300 kHz		s	weep 5.	Stop 3 333 ms (4	0.00 MHz 0001 pts)	Stop Free 30.000000 MH; CF Step 2.999100 MH; Auto Mar
-55.0 -65.0 Start 9 kł #Res BW	Hz 100 kHz	× 291.7 28.263 5 1	#VB		FUNCTIO	s		Stop 3	0.00 MHz 0001 pts)	30.000000 MH; CF Step 2.999100 MH;
-55.0 -65.0 Start 9 kł #Res BW R MODE TRC N 1	Hz / 100 kHz sa.	× 291.7	#VB	W 300 kHz Y -41.11 dBm	FUNCTIO	s	weep 5.	Stop 3 333 ms (4	0.00 MHz 0001 pts)	30.000000 MH: CF Step 2.999100 MH: <u>Auto</u> Mar Freq Offse

Agilent Spectrum Analyzer - Swe					
<b>LXI</b> L RF 50Ω	AC CORREC	SENSE:INT	ALIGN OFF	03:54:17 PM Nov 06, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 🖵	) Trig: Free Run #Atten: 36 dB		TYPE MWWWWWW DET PPPPP	
	IFGain:Low	#Atten: 36 dB			Auto Tune
	<b>ID</b>		IVIKE	5 3.292 93 GHz -40.31 dBm	
10 dB/div Ref 25.00 d				-40.01 0.511	
15.0	<b>1</b>				Center Freq
5.00					5.015000000 GHz
-5.00					
-15.0				17.42 dBm	Start Freq
-25.0					30.000000 MHz
-35.0					30.000000 Wil 12
-45.0	States Income (in the line)	and the second state of the second	PalingDesepartmenting (etcseepartmenter	Contraction of the state of the state of	
-55.0		No. 199 Annual States of Control			Stop Freq
-65.0					10.00000000 GHz
Start 30 MHz	#3 ( <b>D</b> ) A	0.0 000	0	Stop 10.000 GHz	CF Step
#Res BW 1.0 MHz		3.0 MHz	-	.67 ms (40001 pts)	997.000000 MHz Auto Man
R MODE TRC SCL	× 2.420 06 GHz	Y FUNCTIO 9.36 dBm	N FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> mari
2 N 1 f	3.375 43 GHz	39.37 dBm			Eren Offent
3 N 1 f 1 N 1 f		39.40 dBm 40.25 dBm			Freq Offset 0 Hz
5 N 1 f	3.292 93 GHz	40.31 dBm			0 H2
7					
9					
<		m		>	
MSG					

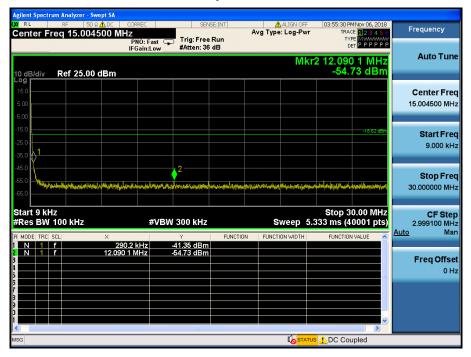


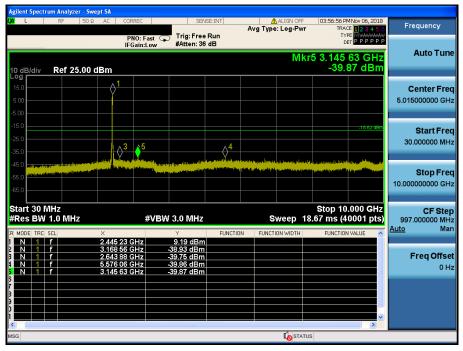


## TM 6 & ANT 1 & 2437



#### Reference





Agilent Spect	rum Ana	lyzer - Swe	ept SA									
LXIRL	RF			CORREC		SEN	SE:INT		ALIGN OFF		PM Nov 06, 2018 ACE 123456	Frequency
Center F	req	7.5000	00000			rig: Free Atten: 36		- 19 i yi	7e. 20g4 w	1		
									Mkr5		500 GHz	Auto Tune
10 dB/div Log	Ref	25.00 (	dBm						_	-32	.50 dBm	
15.0												Center Freq
5.00												17.50000000 GHz
-5.00												
-15.0											-18.62 dBm	01-15-
-25.0									<u>_</u> 5A	3	$- 0^{1} 0^{2}$	Start Freq 10.00000000 GHz
-35.0					antes subars sud-	-	ور بالألام ومعالاته	The support of the last	N.W			10.00000000 GH2
-45.0		all and the second s			-	and the second second	and the second data of the secon	for and a stille		A Contraction of the local division of the l		
-55.0												Stop Freq
-65.0												25.00000000 GHz
											5 000 011	
Start 10. #Res BW					¢VBW 3.	0 MHz			Sween a	Stop 2 40 00 ms /	5.000 GHz 40001 pts)	CF Step 1.50000000 GHz
R MODE TRC			X		, <b>с В м. с.</b> Ү	• 11112	FUNCTIO		TION WIDTH		ON VALUE	Auto Man
1 N 1	f		3.896 75		-30.	18 dBm	TONCHO	N TON		Token	ON VALUE	
2 N 1 3 N 1	f f		4.602 50			45 dBm 17 dBm						Freg Offset
4 N 1	f	2	1.262 00	0 GHz	-32.	40 dBm 50 dBm						0 Hz
5		2	0.003 50	0 GHZ								
3												
9												
1											~	
MSG	_		_			10			<b>I</b> STA	TUS		
	_								-0			

### TM 6 & ANT 1 & 2462

#### Reference



### **High Band-edge**



RL RF 50	Ω 🛕 DC 📔 CORREC	SEN	ISE:INT	🛕 ALIGN OF		M Nov 06, 2018	Frequency
enter Freq 15.004		Fast 🕞 Trig: Free a:Low #Atten: 36	Run	Avg Type: Log-Pw	/r TRA/ TY D	CE 123456 PE MWWWWW ET P P P P P P	Frequency
0 dB/div Ref 25.00	dBm			N	1kr2 3.850 -55.	0 8 MHz 53 dBm	Auto Tun
•g 15.0 5.00							<b>Center Fre</b> 15.004500 MH
15.0 25.0 35.0 1						-18.42 dBm	<b>Start Fre</b> 9.000 k⊦
	าร่อุโรรสรรษรรรม	Manual International Action	unerianiti nelanadori	lanista fan fan fan fan fan geleger	haldMlader	umaharah basadaya	
itart 9 kHz Res BW 100 kHz		#VBW 300 kHz		Sweep	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	Stop Fre 30.000000 MH CF Ste 2.999100 MH Auto Ma
tart 9 kHz Res BW 100 kHz		#VBW 300 kHz	FUNCTION		Stop 3	0.00 MHz 0001 pts)	30.000000 Mi CF Ste 2.999100 Mi Auto Freq Offs
tart 9 kHz Res BW 100 kHz N 1 F	× 281.9 kHz	#VBW 300 kHz	FUNCTION	Sweep	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH

Agilent Spectrum Analyzer - Swe					
<b>LXI L RF 50 Ω</b>	AC CORREC	SENSE:INT	ALIGN OFF	04:00:13 PM Nov 06, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 🕞 IFGain:Low	Trig: Free Run #Atten: 36 dB	• •	TYPE MWAAAAAAAA DET P P P P P P	
	IFGain:Low	#Atten: 50 dB	Miles	5 8.796 62 GHz	Auto Tune
10 dB/div Ref 25.00	dBm		IVINI	-40.19 dBm	
Log				40.10 abiii	
15.0	<b>∩_</b>				Center Freq
5.00					5.015000000 GHz
-5.00					
-15.0				-18.42 dBm	Start Freq
-25.0					30.000000 MHz
-35.0	\$ <sup>2</sup>		<b>└──</b> ◇ <sup>4</sup> ─────	<b>→</b> <sup>5</sup>	
-45.0			Construction of the University of the State	and a second	
-55.0					Stop Freq
-65.0					10.00000000 GHz
				Of	
Start 30 MHz #Res BW 1.0 MHz	#VBM	3.0 MHz	Sweep 18	Stop 10.000 GHz .67 ms (40001 pts)	CF Step 997.000000 MHz
R MODE TRC SCL	X	Y FUNCTIO	-	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f	2.456 20 GHz	8.06 dBm	Tonenon wip m		
2 N 1 F 3 N 1 F		-38.99 dBm -40.09 dBm			Freq Offset
4 N 1 F	6.435 73 GHz	-40.11 dBm -40.19 dBm			0 Hz
3 N N N N N N N N N N N N N N N N N N N	8.790 02 GHZ	-40.19 dBill			
8					
2					
í <b>se se</b> se				~	
<		IIII	r1	>	
MSG					

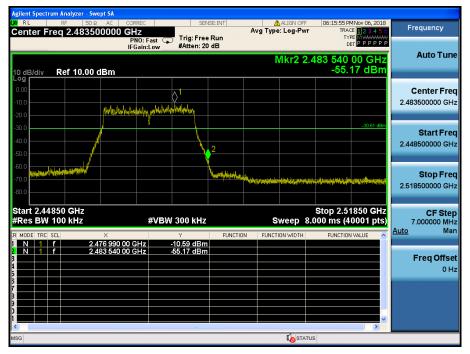
RL	RF	50 Ω AC	CORREC	SEN	E:INT	ALIGN O	FF 03:59:29 P	MNov 06, 2018	
enter F	req 17.5	000000	0 GHz PNO: Fast IFGain:Lov	Trig: Free #Atten: 36		Avg Type: Log-P	WIY TRA TY D	CE 123456 PE MWWWWWW ET P P P P P P	Frequency
0 dB/div	Ref 25.	00 dBm				Mkr	5 20.628 6 -32.	625 GHz 57 dBm	Auto Tun
<b>°g</b> 15.0 5.00									Center Fre 17.500000000 G⊦
15.0 25.0 35.0					a, a sudda, " " " alia	5	X	-18.42 dBm	Start Fre 10.000000000 GH
15.0 <b>4</b> 0.000 55.0 65.0									Stop Fre 25.000000000 G⊦
	1.0 MHz		#\	/BW 3.0 MHz		Sweep	Stop 25 40.00 ms (4	.000 GHz 0001 pts)	CF Ste 1.50000000 GH Auto Ma
MODE TRC N 1 N 1 N 1	SCL f f f f f	24.608 23.170 23.347	525 GHz 500 GHz 000 GHz 375 GHz 525 GHz	Y -30.75 dBm -31.00 dBm -31.61 dBm -31.71 dBm -32.57 dBm	FUNCTION	FUNCTION WIDTH	FUNCTIO	N VALUE	Freq Offso 0 F
N 1 N 1									

## TM 6 & ANT 1 & 2472

### Reference



### **High Band-edge**



XI RL	um Analyzer - Sv RF 50: req 15.004	Ω≜DC CORRE	Fast Trig: Free		ALIGN OFF	r TRA	MNov 06, 2018 CE 123456 PE MWWWWW ET P P P P P P	Frequency
10 dB/div	Ref 10.00	IFGai		) dB	MI	(r2 24.97)		Auto Tune
- <b>og</b> 0.00 -10.0								Center Free 15.004500 MH
-20.0 -30.0 -40.0							-30.61 dBm	Start Free 9.000 kH
-60.0 -70.0 -80.0	rheiteldetheutelgeirettessei	interneting all and the second se	urgen för after förstande förstande	Altaliatorio, federla goa	anti di	2 herenfeltilikteringhering	h fhreigt a spint that a bar	Stop Fre 30.000000 MH
Start 9 kH Res BW	100 kHz	X	#VBW 300 kHz	FUNCTION	Sweep	Stop 3 5.333 ms (4 FUNCTIO		<b>CF Ste</b> 2.999100 MH <u>Auto</u> Ma
N 1 N 1	f f	281.9 kH 24.970 5 MH						Freq Offse 0 H
sg					I STA	TUS / DC Co	>	

Agilent																						
LXI L		F	F	50 Ω	AC		CORRE	EC			SEN	ISE:INT	А		ALIGN OF			PM Nov 06, ACE 123			Frequency	y
							PNC	D: Fas	a 😱	Trig: I #Atte							T		AAAAAA			
_							IFGa	nin:Lo	w	#Attei	n: 20	dB				_					Auto T	Tune
		_													M	krə	5.593	. 51 G .72 dE				
10 dE Log	l/div	R	ef 10	0.00	dBn	n							_				-00	.72 at	sini			
0.00						-0 <sup>1</sup>															Center	Frea
-10.0																			_	5.0	15000000	
-20.0																						
-30.0																		-30.6	dBm			-
-40.0																					Start I	
-50.0												<mark>2</mark> 5	434	ļ							30.000000	MHZ
							Sec. 1	Pit and	<b>.</b>			and the second	XX,	and the second	and the second	يلمني	فالبابير بترغيب		مسغا			
-70.0	in on the Market				Yurut	a Baar	(head) (d	and the second se	and the second second	and the second second		and the second	an pilota	and the second second second	in the different	turit .	الانتقاديم والخديد	in a subscription	100.00		Stop I	Freq
-80.0																				10.0	00000000	GHz
-80.0																						
Star	: 30	MHz															Stop 1				CFS	Step
#Res	BW	1.0	MH:	z				#\	VBW	3.0 M	Ηz			S	weep	18.0	67 ms (	40001	ots)		97.000000	MHz
R MOD	E TRC				Х					Y		FUNCT	ON	FUNCT	ION WIDTH		FUNCTIO	ON VALUE	^	Auto		Man
	1	f f					38 GH 78 GH			-3.93 d 54.48 d						-						
3 N	1	f			5.9	67	38 GH 35 GH	-Iz	-	54.84 d 55.32 d	lBm										Freq O	
1 N 5 N	1	f					35 GF 51 GF			55.32 d 55.72 d									=			0 Hz
6 7																-						
2																						
5																						
1																			<b>v</b>			
MSG						_	_								I st/	ATUS						
				_	_	_	_	_	_		_		_		-00				_	_		_

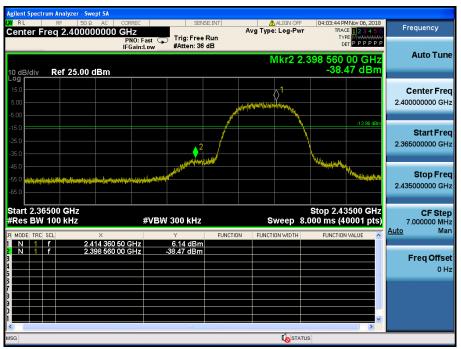
RL	RF	50Ω AC	CORREC	SEN	ISE:INT	Â	ALIGN OFF	06:16:31 P	MNov 06, 2018	-
enter F	req 17.5	50000000	0 GHz PNO: Fast IFGain:Lov	Trig: Free #Atten: 20		Avg Type	: Log-Pwr	TRA/ TY D	CE 123456 PE MWWWWW ET P P P P P P	Frequency
0 dB/div	Ref 10	.00 dBm					Mkr5 2		25 GHz 22 dBm	Auto Tur
										Center Fre 17.500000000 GF
0.0 0.0 0.0			ماهيار بريار		New York Street Street				-30.61 dBm	Start Fre 10.000000000 GH
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0										<b>Stop Fr</b> 25.00000000 G
Res BW	000 GHz 1.0 MHz		#V	/BW 3.0 MHz			weep 40	.00 ms (4	.000 GHz 0001 pts)	CF Ste 1.500000000 GI Auto Mi
MODE         TRC           N         1           N         1           N         1           N         1           N         1           N         1           N         1	SCL f f f f f	24.022 ( 24.433 24.575 (	000 GHz 000 GHz 750 GHz 500 GHz 525 GHz	46.34 dBm -46.47 dBm -46.51 dBm -46.57 dBm -47.22 dBm		IN FUNCTI	ON WIDTH	FUNCTION	VALUE	Freq Offs
									~	

### TM 1 & ANT 2 & 2412

#### Reference



### Low Band-edge



enter F	req 15.004		Fast 👝 Trig: Free	Run	Avg Type	ALIGN OFF : Log-Pwr	TRAG	MNov 06, 2018 25 <b>1 2 3 4 5 6</b> 26 MWWWWWW 27 P P P P P P	Frequency
0 dB/div	Ref 25.00	IFGair dBm	Atten: 36	dB		Mkr	2 20.364		Auto Tun
og 15.0 5.00									Center Fre 15.004500 M⊦
5.00 15.0 25.0 35.0								-13.96 dBm	Start Fre 9.000 ki
\$5.0	haldstoppersonaateleiter	وأقهت اواخذ الدمايوليار الإيداء	the the second	and the state of the	2 ماہ ارد (اسلام اور	literitiin jatalas	alaini, nisebel everida	of the second state of the	Stop Fre 30.000000 MH
5.0									
tart 9 kH Res BW	Iz 100 kHz	×	#VBW 300 kHz	FUNCTION	Si	weep 5.3		0.00 MHz 0001 pts)	CF Ste 2.999100 Mi
tart 9 kH Res BW	lz 100 kHz		#VBW 300 kHz	FUNCTION	Si		Stop 3 333 ms (4	0.00 MHz 0001 pts)	CF Ste 2.999100 Mł <u>Auto</u> Ma Freq Offs
tart 9 kH Res BW MODE TRC N 1	Hz 100 KHz scl f	× 307.4 kH;	#VBW 300 kHz	FUNCTION	Si		Stop 3 333 ms (4	0.00 MHz 0001 pts)	CF Ste 2.999100 MH

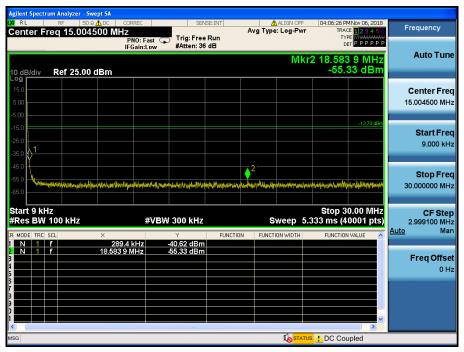
~			nalyzer																		
L <mark>XI</mark> L		F	F	50 Ω	AC CORREC			9	SENSE:INT			ALIGN OFF			04:04:53 PM Nov 06, 2018 TRACE 123456			6	Frequen	су	
						P	NO: F Gain:l	ast 🖵	Trig: Fr #Atten:			-					TYPE DET	MWWWW PPPPP	₩¥ P		
	_	_			_	IF	Gain:i	_0W	#Atten.	50 0	10		_	5.4	le e G			8 GH		Auto	Tune
10 dE	lídiv	R	ef 25.	00 d	Bm									IVI	KI Ü			dBn			
Log	// di t				^	1													٦		
15.0					-\	<u> </u>														Cente	
5.00					t															5.01500000	0 GHz
-5.00																		-13.96 dB			
-15.0										+								10.00 00		Star	t Freq
-25.0						× 2. F	5 . 4				∧3									30.0000	0 MHz
-35.0						$\langle \cdot \rangle$	Ŕ				$\left\langle \right\rangle$										
-45.0	स्टब्स् जि	-		ang sa		u (she ayo			and the second secon		Contrastinguist Contrastinguist		an in the second second	in to part of the second	ineren a	مىر بەرمۇلىيى بى قىلىسى مەنلىسى	aleinea Allana	and the second		Stor	Freq
-55.0																				10.00000000	
-65.0																				10.00000000	O OTTE
Star	30	MHz														Ston	10.0	00 GH:	7	05	Step
			MHz				-	¢VB₩	3.0 MH	z			S	weep						997.00000	
R MOD	E TRC	SCL			X				Y		FUNCTI	DN	FUNCTI	ON WIDTH		FUNCI	ION V	ALUE 🛛		<u>Auto</u>	Man
1 N 2 N	1	f f				4 33 ( 3 63 (			12.02 dB 38.70 dB												
3 N	1	f			5.32	9 80 (	GHz		39.12 dB	m										Freq	Offset
4 N	1	f f				0 70 ( 3 68 (			39.12 dB									_			0 Hz
6																					
3																					
6																					
1																			•		
MSG	_	_		_	_		_			_			_	I STA	TUS	_	_				
		_	_	_	_	_				_		_	_	-00			_				

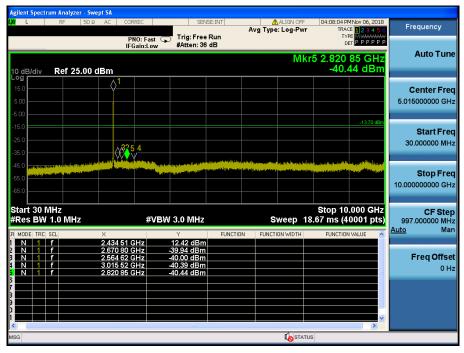


### TM 1 & ANT 2 & 2437

#### Reference





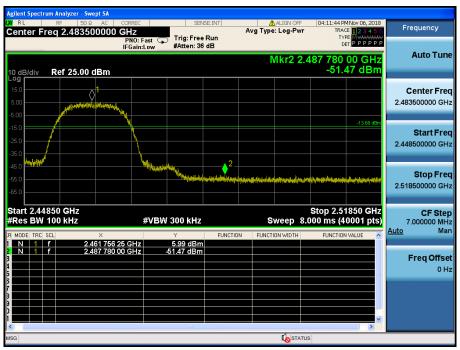


	um Analyzer - S									
LXIRL			DRREC	SENS	SE:INT		ALIGN OFF		4Nov 06, 2018 E <b>1 2 3 4 5 6</b>	Frequency
Center Fi	req 17.50		PNO: Fast (	Trig: Free	Run	Avg type	: Log-Pwr	TY	23456 EMW////////////////////////////////////	
			FGain:Low	#Atten: 36	dB					Auto Tune
							Mkr5	20.631 6		Auto Tune
10 dB/div Log	Ref 25.00	) dBm						-31.	98 dBm	
15.0										Center Freq
5.00										17.50000000 GHz
-5.00										
-15.0									-13.70 dBm	
-25.0							<b>▲</b> 5 ∧4		$^{1}$	Start Freq
							<b>•</b> •		T W	10.00000000 GHz
-35.0	معاقر بملقان والمراجع	and graphic man					And the second s	A Tester (Tester of A Det	and the second have	
-45.0	The second s									Stop Freq
-55.0										25.000000000 GHz
-65.0										
Start 10.0	00 GHz							Stop 25	.000 GHz	CF Step
#Res BW	1.0 MHz		#VB	W 3.0 MHz		s	weep 40	).00 ms (4	0001 pts)	1.500000000 GHz
R MODE TRC	SCL	×		Y	FUNCTION	FUNCT	ION WIDTH	FUNCTION	VALUE	<u>Auto</u> Man
1 N 1	f	24.022 375 24.586 375		-29.38 dBm -30.90 dBm						
3 N 1	f	24.415 375	GHz	-31.56 dBm						Freq Offset
1 N 1 5 N 1	f f	21.445 375 20.631 625		-31.76 dBm -31.98 dBm						0 Hz
5		20.001 020		01.00 4011						
3										
2										
í									~	
<				III						
MSG							<b>I</b> o statu	S		

### TM 1 & ANT 2 & 2462

#### Reference





RL RF 5	ið Ω 🧥 DC   CORR	EC SE	ENSE:INT	ALIGN OFF		MNov 06, 2018	English
enter Freq 15.00	PNO	0: Fast 🕞 Trig: Fre ain:Low #Atten: 3	e Run	Avg Type: Log-Pwr	TRAC TYI DI	ET P P P P P P	Frequency
dB/div Ref 25.0	0 dBm			Μ	kr2 5.987 -55.0	7 0 MHz 06 dBm	Auto Tun
5.0							Center Fre 15.004500 MH
5.0 5.0 5.0 <b>1</b>						-13.68 dBm	<b>Start Fre</b> 9.000 kH
··· N							
5.0	2 http://tinathy.equility	lanine i Nanton signal junistice signal dat	1,19-115-117,175-1-175,175,175,175,175,175,175,175,175,175,	antyphysion and a primary state of the	ytuscherten bespielender	mantinativanti	
5.0 5.0 tart 9 kHz Res BW 100 kHz	2 Altri Markington	#VBW 300 kH:				0.00 MHz 0001 pts)	30.000000 Mi CF Ste 2.999100 Mi
5.0 KHz Res BW 100 kHz	2 	#VBW 300 kH:	Z FUNCTION		Stop 3	0.00 MHz 0001 pts)	30.000000 Mi CF Ste 2.999100 Mi Auto M Freq Offs
tart 9 kHz Res BW 100 kHz NODE TRC SCL	× 284.2 ki	#VBW 300 kH:	Z FUNCTION	Sweep 5	Stop 3 .333 ms (4	0.00 MHz 0001 pts)	Stop Fre 30.00000 Mi 2.999100 Mi Auto Mi Freq Offs 0 I

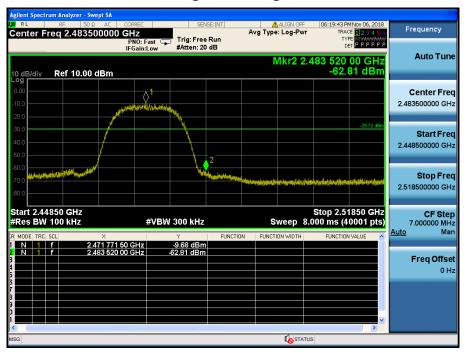
Agilent Spectrum Analyzer - Swept SA					
<b>LXI L</b> RF 50Ω AC	CORREC	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	04:28:11 PM Nov 06, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 😱 IFGain:Low	Trig: Free Run #Atten: 36 dB	Avg Type. Log-t wi		
10 dB/div Ref 25.00 dBm			Mkr	5 2.777 23 GHz -40.71 dBm	Auto Tune
Log 15.0 5.00					Center Freq 5.015000000 GHz
-15.0	<u>↓</u> 5 <u>↓</u> 4	<mark>3</mark>	Ada barrada	-13.68 dBm	Start Freq 30.000000 MHz
-45.0 pre-entropy the particular state of the second state of the					<b>Stop Freq</b> 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW :	3.0 MHz	Sweep 18	Stop 10.000 GHz .67 ms (40001 pts)	CF Step 997.000000 MHz Auto Man
	51 18 GHz 1	Y FUNCTION 2.10 dBm 0.10 dBm	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
3 N 1 f 5.71 4 N 1 f 3.11	14 15 GHz -4 13 97 GHz -4	0.10 dBm 0.40 dBm 0.42 dBm 0.71 dBm			Freq Offset 0 Hz
2 7 3 2					
				×	
MSG			to status	3	



### TM 1 & ANT 2 & 2472



#### Reference



Center F	RF 50 req 15.004		Fast		ALIGN OFF	r TRA	MNov 06, 2018 CE 1 2 3 4 5 6 PE MWWWWWW ET P P P P P P P	Frequency
10 dB/div	Ref 10.00	IFGair		dB	MI	(r2 24.61)		Auto Tune
- <b>og</b> 0.00 10.0 20.0								Center Fre 15.004500 MH
30.0 40.0 50.0							-29.72 dBm	Start Free 9.000 kH
60.0 70.0 80.0	nerate institutioner	prinsipustialaparahasihanala	,alteración printer de la construction de la construcción de la cons	himerender frieder	iogustaanstinalytikatiopertaapenden	2 -13,440-14-1421743/35,76	hadhada shakilingda	Stop Fre 30.000000 MH
tart 9 kH Res BW	100 kHz	X	#VBW 300 kHz	FUNCTION	Sweep FUNCTION WIDTH	Stop 3 5.333 ms (4 FUNCTION		CF Ste 2.999100 MH Auto Ma
N 1 N 1	f f	281.9 kH: 24.613 6 MH:						Freq Offse 0 H
sg			III	<u></u>	~	TUS 1 DC Co	×	

Agilent Spectrum Analyzer - Swept SA	CORREC	SENSE	TAIT	Â	ALIGN OFF	06:20:00 D	1Nov 06, 2018	
Center Freq 5.01500000		Trig: Free R	lun	Avg Type		TRAC	E 1 2 3 4 5 6 E MWWWWWW T P P P P P P	Frequency
	IFGain:Low	#Atten: 20 d	IB					Auto Tune
10 dB/div Ref 10.00 dBm	I				MKr1	0 6.190 -56.0	46 GHz 08 dBm	
-10.0	↓ 							Center Freq 5.015000000 GHz
-30.0	2 <sup>2</sup> ,5 ,3		\} <sup>€</sup> (	£10			-29.72 dBm	Start Freq 30.000000 MHz
-60.0 -70.0 -80.0								<b>Stop Freq</b> 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VB	W 3.0 MHz		S	weep 18	Stop 10. .67 ms (4	000 GHz 0001 pts)	CF Step 997.000000 MHz
R MODE TRC SCL X	59 41 GHz	⊻ -2.26 dBm	FUNCTION	FUNCTI	DN WIDTH	FUNCTION	VALUE	<u>Auto</u> Man
2 N 1 f 2.43 3 N 1 f 3.14 4 N 1 f 5.66	33 52 GHz 42 38 GHz 33 99 GHz 77 04 GHz	-2.26 dBm -52.10 dBm -55.23 dBm -55.70 dBm -55.81 dBm						Freq Offset 0 Hz
N         1         f         5.66           7         N         1         f         9.37           3         N         1         f         6.07	77 04 GH2 55 29 GHz 78 12 GHz 72 32 GHz 92 06 GHz	-55.87 dBm -55.82 dBm -55.97 dBm -56.00 dBm -56.07 dBm						
	90 46 GHz	-56.08 dBm						
MSG					<b>STATU</b> S	3		

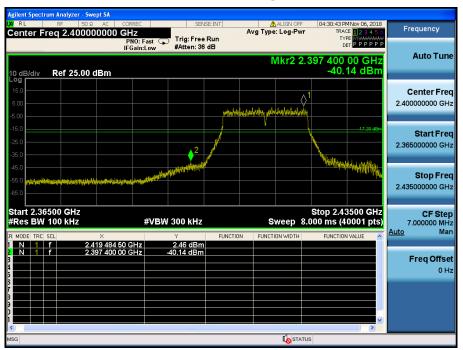


### TM 2 & ANT 2 & 2412

#### nt So ctrum Analy ent S/ 04:29:29 PMNov 06, 2018 TRACE 2 3 4 5 6 TYPE MWWWW DET P P P P P DR RL RF | 50.9. AL | WARNES Center Freq 2.412000000 GHz PN0: Fast IFGain:Low #Atten: 36 dB SENSE:INT ALIGN OFF Frequency Auto Tune Mkr1 2.416 973 GHz 2.70 dBm Ref 25.00 dBm 10 dB/div **Center Freq** 2.412000000 GHz 1 Marily Marily philling provided the philling of the second Start Freq 2.392000000 GHz Stop Freq 2.432000000 GHz CF Step 4.000000 MHz Man WWW. WWW. WWWWW alustral Anter Auto NWWW **Freq Offset** 0 Hz Span 40.00 MHz Sweep 4.000 ms (3001 pts) Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz

#### Reference

Low Band-edge



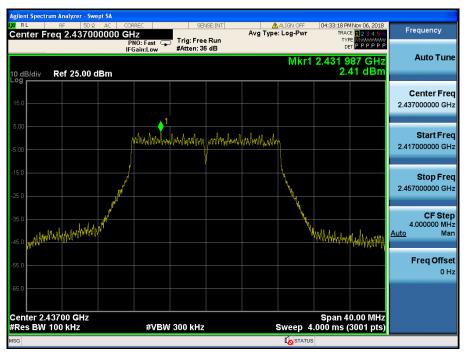
RL	rum Analyzer - S RF 50	Ω 🗘 DC 🕴 CORRI	EC S	ENSE:INT	ALIGN OFF	04:30:52 P	M Nov 06, 2018	_
Center F	req 15.004		0: Fast 😱 Trig: Fre		Avg Type: Log-Pwi	r TRA/ TY	CE 123456 PE MWWWWW ET P P P P P P	Frequency
			ain:Low #Atten:	36 dB				Auto Tune
10 dB/div	Ref 25.00	) dBm			IVIK	r2 27.390 -55.	5 8 MHZ 70 dBm	
-og 15.0								Center Fre
5.00								15.004500 MH
5.00								
15.0							-17.30 dBm	Start Fre
35.0								9.000 kH
N N								
45.0								
							¢ <sup>2</sup>	
55.0	n an	han harman an harman	an a	ntifish en bekerika biyatiya	nantrajtantikkiteranitart	a agricular, with the	2 adiumitentalikk	
55.0 65.0		hyda ha innanain faith ymhyd	yan yan hanfan da ya haka ya haka ya shari	ન્સીઈપ્રસ નગ <b>ે</b> સંસ્કૃત સામે સંસ્કૃતિ સ્ટ્ર	nier fragtingen fil der die einer heren			30.000000 MH
55.0 65.0 Start 9 kH		hfir hermonin fill hortag	#VBW 300 kH				0.00 MHz	30.000000 MH CF Ste 2.999100 MH
Start 9 kl #Res BW	Hz 100 kHz	×	#VBW 300 kH	Z FUNCTION		Stop 3	0.00 MHz 0001 pts)	Stop Free 30.000000 MH CF Stej 2.999100 MH <u>Auto</u> Ma
55.0 65.0 Start 9 kH #Res BW	Hz 100 kHz		#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Stej 2.999100 MH <u>Auto</u> Ma
55.0 65.0 Start 9 kł fRes BW MODE TRC	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Ma Freq Offse
55.0 65.0 Start 9 kł fRes BW MODE TRC	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Ma Freq Offse
55.0 65.0 Start 9 kł fRes BW MODE TRC	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Ma Freq Offse
55.0 65.0 Start 9 kł ¢Res BW	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Ma Freq Offse
55.0 65.0 Start 9 kł #Res BW	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Ma Freq Offse
55.0 65.0 Start 9 kł #Res BW	Hz 100 kHz scl	× 283.4 kł	#VBW 300 kH	Z FUNCTION	Sweep 5	Stop 3 5.333 ms (4	0.00 MHz 0001 pts)	30.000000 MH CF Step 2.999100 MH

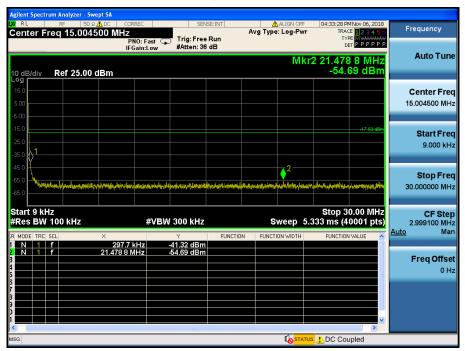
			nalyzer															
LXI L		F	F	50 Ω	AC	CO	RREC		SE	INSE:INT	A		ALIGN OF		TRA	M Nov 06, 201	6	Frequency
						Р	NO: F	ast 🖵	Trig: Fre #Atten: 3						T		ř	
						IF	Gain:	Low	#Atten: \	56 ab								Auto Tune
		_		••									IVI	ĸrə		33 GH: 75 dBn		
10 dE Log	3/div	R	ef 25	.00 c	вm	4									-00.		1	
15.0					$\vdash$	≻—												Center Freq
5.00																		5.015000000 GHz
-5.00																		
-15.0																17.30 dB		Otort From
-25.0																		Start Freq 30.000000 MHz
-35.0							5											30.000000 MH2
-45.0	e Non da 10			-		ber seeling t	line.	and here the	المراجع والمراجع	at other lowellong	and the second	agazan palaka	A PROPERTY AND A PROP	the state of the	and there is	And and Adding to		
-55.0		-	and the second	and and the second s				a line of the	A DESCRIPTION OF THE OWNER OF THE			in contraction of			A STREET			Stop Freq
-65.0																		10.00000000 GHz
Star												_				0.000 GH		CF Step
			MHz					#VBW	3.0 MH:	<u>z</u>		S	weep	18.6		0001 pts		997.000000 MHz Auto Man
I NOD	E TRC	SCL			X	16 57 (	211-		Y 10.35 dBi	FUNC	TION	FUNCT	ON WIDTH		FUNCTIO	N VALUE		Auto Mari
2 N	1	f			9.42	28 22 (	GHz		-38.78 dBr	n								-
3 N 4 N	1	f			3.10	09 73 ( 36 43 (	GHz		-39.45 dBr -39.65 dBr									Freq Offset
5 N	1	f				50 33 (			-39.75 dBr									0 Hz
7																		
3																		
Ď																		
<																	-	
MSG													<b>I</b> STA	TUS				
-	-	-		-	-	-	-						-					

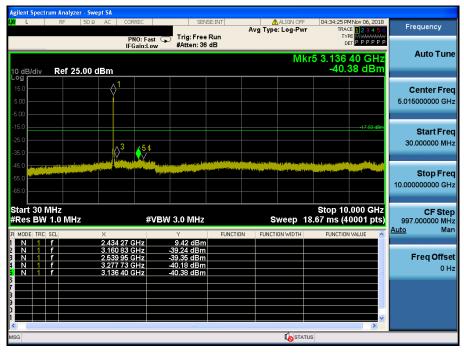


Reference

### TM 2 & ANT 2 & 2437





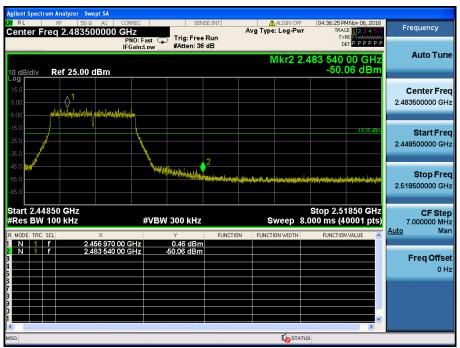


Agilent Spectrum Analyzer - Swept SA				
RL   RF   50 Ω AC       Center Freq 17.500000000	0 GHz	Avg Type:	Log-Pwr TRAG	MNov 06, 2018 E 1 2 3 4 5 6 Frequency
	PNO: Fast Trig: Free I		TY	ET P P P P P
			Mkr5 20.683 7	50 GHz Auto Tun
10 dB/div Ref 25.00 dBm			-32.	08 dBm
15.0				Center Fre
5.00				17.500000000 GH
-5.00				
-15.0				-17.50 dBm Start Fre
-25.0			5	4 0 <sup>2</sup> 3 10.000000000 GH
-35.0	and the second se			
No. of Street St				Stop Fre
-55.0				25.000000000 GH
-65.0				
Start 10.000 GHz				.000 GHz CF Ste
#Res BW 1.0 MHz	#VBW 3.0 MHz		eep 40.00 ms (4	Auto Ma
IR MODE         TRC         SCL         X           1         N         1         f         24.542 50	۲ 00 GHz -29.06 dBm	FUNCTION FUNCTION	WIDTH FUNCTION	
2 N 1 f 23.927 50 3 N 1 f 24.664 75	00 GHz -30.11 dBm			Freq Offse
4 N 1 f 23.299 0 5 N 1 f 20.683 7	00 GHz -31.55 dBm			0 H
2				
MSG			<b>K</b> STATUS	

### TM 2 & ANT 2 & 2462



#### Reference



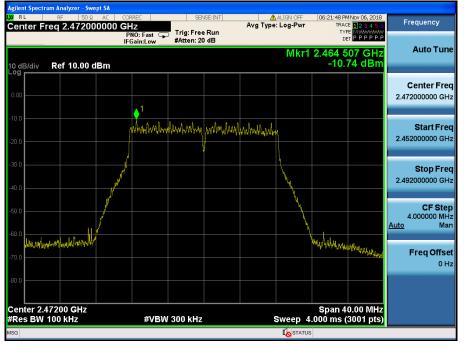
enter F	<sup>RF</sup> 50 reg 15.004	Ω ADC CORREC			ALIGN OFF	04:36:35 PM Nov 06, 2018 TRACE 123456	Frequency
		PNO: IFGain	Fast 😱 Trig: Free ::Low #Atten: 36				Auto Tur
0 dB/div	Ref 25.00	dBm			Mk	r2 28.205 0 MHz -54.59 dBm	Auto Tune
. <b>og</b> 15.0							Center Fre
5.00							13.004300 MI
25.0						-19.35 dBm	Start Fre 9.000 k⊢
35.0							5.000 KI
45.0						2	Stop Fre
rr ol 🕨							StopFre
	itelander ander and and and and a	eendertraffreidetsterrineisergenste	n frefræði heferir er skrifter for skrifter for skrifter	noraistan magalada	hermerkelen verster het	and an all first harmonic and any other standing the spile	
55.0 <b></b>			#VBW 300 kHz	noneninten en e		Stop 30.00 MHz .333 ms (40001 pts)	30.000000 MH CF Ste 2.999100 MH
itart 9 kl Res BW	Hz 100 kHz	×	#VBW 300 kHz	FUNCTION		Stop 30.00 MHz	CF Ste 2.999100 M⊢ Auto Ma
itart 9 kH	Hz 100 kHz		#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz .333 ms (40001 pts)	30.000000 M⊢ CF Ste 2.999100 M⊢ <u>Auto</u> Ma
itart 9 kl Res BW	Hz 100 kHz scl	× 281.9 kHz	#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz .333 ms (40001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Freq Offse
itart 9 kl Res BW	Hz 100 kHz scl	× 281.9 kHz	#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz .333 ms (40001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Freq Offse
itart 9 kl Res BW	Hz 100 kHz scl	× 281.9 kHz	#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz .333 ms (40001 pts)	30.000000 MH CF Ste 2.999100 MH <u>Auto</u> Freq Offse
itart 9 kl Res BW	Hz 100 kHz scl	× 281.9 kHz	#VBW 300 kHz	FUNCTION	Sweep 5	Stop 30.00 MHz .333 ms (40001 pts)	30.000000 M⊦ CF Ste 2.999100 M⊦

Agilent	Spect																	
l <mark>XI</mark> L		F	F	50 Ω	AC	CC	RREC		SEN	ISE:INT	A١		ALIGN OFF		TRA	M Nov 06, 2018 CE 12345		Frequency
						F	PNO: F Gain:	ast 🖵	Trig: Free #Atten: 36			•	Ū		TY	PE MWWWWW ET P P P P P	₩ P	
	_	_	_		_	11	Gain:	LOW	#Atten: 50	, 40	_		6/1	<b>2</b> 25		86 GHz		Auto Tune
10 dB		D.	.F 7.F	.00 c	d D m								IVII	ΝЮ		18 dBm		
	aiv	1	20	.00 (														
15.0					+	0 <mark>1</mark>												Center Freq
5.00																		5.015000000 GHz
-5.00																		
-15.0 -																-19.35 dBn		Start Freq
-25.0 -							+_				<u> </u>							30.000000 MHz
-35.0 -						1	-07	\$			+⊖⁴							
-45.0 🦷	وليتعينه	ule e s		An the second			angar a	-	And the State of t				ages of the galactic	and qu	and the second secon	AND DESCRIPTION OF THE OWNER		
-55.0	ماللا يسد	ovelle		4.2 6.4 (1)				a distribution of the legel of	in ast Dille Loss and the							ALAL		Stop Freq
-65.0 -																		10.00000000 GHz
Start #Res				,				#VBW	3.0 MHz			s	ween			.000 GHz 0001 pts		CF Step 997.000000 MHz
R MODE				-	X				Y	FUNCT	ON		ON WIDTH		FUNCTIO			Auto Man
1 N	1	f			2.4	59 94			9.14 dBm		UN	FUNCT	UN WIDTH		FUNCTION	N VALUE		
2 N 3 N	1	f				72 29 42 83			-39.78 dBm -39.86 dBm									Freq Offset
4 N	1	f			6.18	38 72	GHz		-40.01 dBm									0 Hz
5 N 5	1				3.1	50 86	GHZ		-40.18 dBm									
7																		
9																		
1																~		
<			_	_	_	_	_		110		_			_		>		
MSG													<b>Г<sub>Ю</sub>STA</b>	TUS				

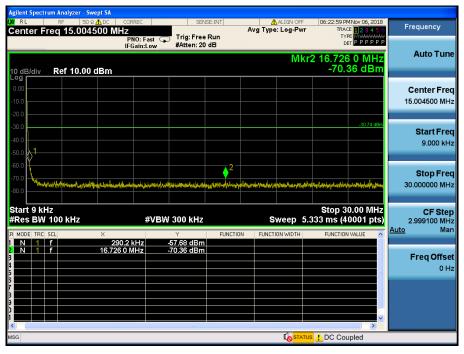
	RF 51	OΩ AC (	CORREC	SEN	ISE:INT	<u>A</u> .	ALIGN OFF	04:37:00 Pf	4Nov 06, 2018	
enter Fr	req 17.50		GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 36		Avg Type:	Log-Pwr	TRAC TYI DI	E 123456 E MWWWWWW P P P P P P	Frequency
0 dB/div	Ref 25.0	0 dBm					Mkr5 2	3.218 0 -31.3	00 GHz 30 dBm	Auto Tun
<b>°g</b> 15.0										Center Fre 17.500000000 G⊦
25.0 35.0				WITH LL PROPERTY AND ADDRESS OF A DECISION	C. Jur., en Dakton, p				.19,35 dBm	Start Fre 10.000000000 G⊦
15.0										<b>Stop Fre</b> 25.000000000 GH
tart 10.0	00 GHz								.000 GHz	CF Ste
	1.0 MHz		#V	BW 3.0 MHz					0001 pts)	1.500000000 GH
MODE TRC		× 23.998 750 23.737 37 24.586 750 23.323 000 23.218 000	0 GHz 5 GHz 0 GHz 0 GHz	BW 3.0 MHz -29.74 dBm -30.47 dBm -30.73 dBm -31.17 dBm -31.30 dBm			veep 40.	00 ms (4	0001 pts)	1.50000000 GF <u>Auto</u> Ma Freq Offs
MODE TRC N 1 N 1 N 1 N 1 N 1	SCL	23.998 750 23.737 375 24.586 750 23.323 000	0 GHz 5 GHz 0 GHz 0 GHz	Y -29.74 dBm -30.47 dBm -30.73 dBm -31.17 dBm					0001 pts)	1.500000000 GH

### TM 2 & ANT 2 & 2472

#### Reference







swept SA				
IΩ AC CORREC		ALIGN OFF Avg Type: Log-Pwr	TRACE 123456	Frequency
PNO: Fast IEGain:Low	Trig: Free Run #Atten: 20 dB		DET PPPPP	
II GUIILEGH		Mkr	5 2 720 16 GHz	Auto Tune
) dBm			-55.79 dBm	
1				Center Freq
				5.015000000 GHz
				0.01000000000112
			-30.74 dBm	
				Start Freq
5				30.000000 MHz
and a local design of the state	and the second	ومعيديها ومقامينها والأفاط أخرمها ومقاربه والمعرف	and the second state of th	
and the state of the	and in the second s		and the second statement of the second statement of the second statement of the second statement of the second	Stop Freq
				10.00000000 GHz
#\/B	W/30MHz	Sween 18		CF Step 997.000000 MHz
				Auto Man
2.469 91 GHz	-2.30 dBm			
9.449 66 GHz	-55.05 dBm			Freq Offset
				0 Hz
			~	
		STATU:		
	Ω         AC         CORREC           PN0: Fast         IFGain:Low           0 dBm         1           2455         4           2455         4           2453         4           2453         4           2429         53           2429         53	Ω         AC         CORREC         SENSE:INT           PNO: Fast IFGain:Low         Trig: Free Run #Atten: 20 dB           0 dBm         1         1           0 dBm         2.429 53 GHz         52.05 dBm           0 dBm         2.522 2	PNO: Fast IFGain:Low     Trig: Free Run #Atten: 20 dB       Mkr       O dBm       Image: Strate Str	Q         AC         CORREC         SENSE:INT         Avg Type: Log-Pwr         Trace         2:4:::         Trace         2:4:::         Correct         Sense:::         Avg Type: Log-Pwr         Trace         2:4:::         Correct         Sense:::         Trace         Dispersion         Correct         Sense:::         Correct         Sense:::         Sense:::         Correct         Sensei::         Correct

	RF 50 Ω AC CORREC SENSE:INT						ALIGN OFF	06:23:24 PM Nov 06, 2018		
enter F	nter Freq 17.500000000 GHz PNO: Fast IFGain:Low				Trig: Free Run #Atten: 20 dB		Avg Type: Log-Pwr		ET P P P P P P	Frequency
0 dB/div										Auto Tur
										Center Fre 17.500000000 GH
30.0 10.0 50.0						and the second	<b>3</b> ,5	↓	-30.74 dBm	Start Fre 10.000000000 GH
0.0 0.0 0.0						filles proton filles of				<b>Stop Fr</b> 25.00000000 GI
Res BW	000 GHz / 1.0 MHz		#V	'BW 3.0 MHz			weep 40	.00 ms (4		CF Ste 1.50000000 GI Auto Mi
		× 24.020.9	75 GHz	۲ -45.12 dBm	FUNCTIO	N FUNCT	ION WIDTH	FUNCTION	VALUE	
MODE         TRC           N         1           N         1           N         1           N         1           N         1           N         1           N         1	f f f f	24.560 8 20.573 12 22.633 3 21.092 12	25 GHz 75 GHz	-46.45 dBm -48.32 dBm -48.76 dBm -48.98 dBm						
N 1 N 1 N 1 N 1	f f f	24.560 8 20.573 1 22.633 3	25 GHz 75 GHz	-46.45 dBm -48.32 dBm -48.76 dBm						Freq Offs 0 F