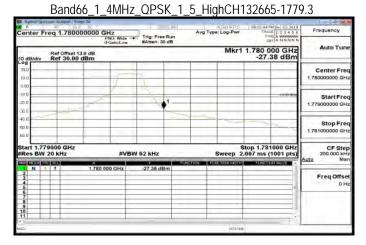


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Freq Offs

Band66_1_4MHz_QPSK_1_0_LowCH131979-1710.7

Ref OTiset 138 dB MKR 1 .710 000 GHz 1 dBudwir Ref 30.00 dBm -29.30 dBm 2 dBudwir Ref 30.00 dBm -29.30 dBm <	against the	Oran Antiques (1						10 4 1
Ref Offset 13.8 dB Mkr1 1.710 000 GHz Auto Tur 10 dBulw Ref 30.00 dBm -29.30 dBm -29.30 dBm 330	Center F		000000 GHz	- 1 Sec. 1 - 5	Avg Type		TRACE 1 2 2 4 5 6	
Control Start Fr 1.710000000 GH Start Fr 1.700000000 GH Start Fr 1.70000000 GH Start Fr 1.710000000 GH Start Fr 1.710000000 GH Start Fr 1.710000000 GH Start Fr 1.710000000 GH Start Fr 1.710000 GHZ Start Fr 1.710000 GHZ Start Fr 20.000 h Start Fr 20.000 h Start Fr 1.710000 GHZ Start Fr 1.710000 GHZ Start Fr 20.000 h Start Fr 20.000 h Start Fr 20.000 h Start Fr 1.710000 GHZ Control Start Fr 20.000 h Add0 M Add0 M Add0 M Add0 M Freq Off 9 Add0 M 9 9 Add0 M 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		Ref Offset	iFGain:Lov		3	Mkr1	1.710 000 GHz	Auto True
Start Fr Start Fr 000 <td< th=""><th>20,0</th><th>Ref 30.0</th><th>0 dBm</th><th></th><th></th><th></th><th>-29.30 dBm</th><th>Center Fre 1.710000000 GH</th></td<>	20,0	Ref 30.0	0 dBm				-29.30 dBm	Center Fre 1.710000000 GH
400 500 500 500 500 500 1.711000000 1.711000000 1.7110000000 1.7110000000 0.000000 0.000000 0.000000 CF St 2000000 0.000000 CF St 2000000 0.000000 CF St 2000000 0.000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000000 0.000000000 0.000000000000 0.0000000000 0.00000000000000 0.00000000000000 0.00000000000000000000000000000000000	-10:0			•1	4	1		Start Fre 1.709000000 GH
RRes BW 20 kHz #VBW 62 kHz Sweep 2.067 ms (1001 pts) Auto Auto M 02 dbdb bg 22 Hz 5 5 5 5 5 5 6 6 7 1 7.710 000 GHz -20.30 dBm Flocation based Flo	40.0	~						Stop Fre 1.711000000 GH
N F 1,710 000 GHz -20 30 dBm	Res BW	20 kHz	#V	BW 62 kHz		Sweep 2.	067 ms (1001 pts)	CF Ste 200.000 kF
	1 N			-29,30 dBm	PUNCTION: FU	SCTICIN WIDTH:	FLOVETION VALUE -	
10	4							Freq Offs 01
	7 8 9	-						
NGG STATUS-	11	11						



Band66 1 4MHz QPSK 6 0 LowCH131979-1710.7

against Spectrum Anapper I Trents	<u>ja</u>				0 4 63
Center Freq 1.710000	0000 GHz PNO: Wide	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 TREE A WARMAN	Frequency
Ref Offset 13.8 10 dB/div Ref 30.00 dB	iFGaintLow	#Atten: 30 dB	Mkr1	1.710 000 GHz -32.00 dBm	Auto Tune
30.0					Center Free 1.710000000 GH
0.00 -10.0 -20.0		1		.000.00	Start Free 1.709000000 GH
400 400 600					Stop Free 1.711000000 GH
Start 1.709000 GHz #Res BW 20 kHz	#VBW	62 kHz	Sweep 2.	top 1.711000 GHz 067 ms (1001 pts)	CF Step 200.000 kH Auto Mar
T N I T	1,710 000 GHz	-32.00 dBm			Freq Offse 0 H
2 3 4 5 6 6 7 7 8 9 9 10					
inis in the second s			STATUS	94 () 	

R enter Freq 1.780000000 GHz PNC: Wide --- Trig: Pree Run SAtten: 30 dB Frequen Auto Tu Mkr1 1.780 000 GHz -30.29 dBm Ref Offset 13.8 Ref 30.00 dB Center Fre Start Fre Stop Fre Stop 1,781000 2,067 ms (1001 CF Ster 9000 P #VBW 62 kHz

Band66_1_4MHz_QPSK_6_0_HighCH132665-1779.3

Band66_3MHz_QPSK_1_0_LowCH131987-1711.5

10 4 43					_	134	An anyone I Trees	THEFT	agenet?	
Frequency	12345 100 PM Dec 03. 2019 TRACE 1 2 3 4 5 6 Tree A WWWWW	ALIGN NOTO	Ava	Trig: Free Run	NO: Wide	0	q 1.71000	Free	nter	Ce
Auto Tune	.710 000 GHz -17.90 dBm	Mkr1		#Atten: 30 dB	Gain:Low	B dB	Ref Offset 13 Ref 30.00 (dB/di	10
Center Fred 1.71000000 GH;			1			-				30. 10
Start Free 1.709000000 GHz	-100-00	~	1	ť					0	10.0 -10 -20
Stop Free 1.711000000 GH						~			0	-30
CF Step 200.000 kH Auto Mar	op 1.711000 GHz 00 ms (1001 pts)	Sweep 1.		120 KHz	#VBW		00 GHz kHz	,7090 W 39	art 1.	Sta
Freq Offse 0 Ha	PUNCTION VIELNE -	ALINEN WIDTH	DUNCTION	-17.90 dBm	00 GHz	1,710.00	1		N	234
										567 89 10
	 (1) 	STATUS								, NESS

Band66_3MHz_QPSK_1_14_HighCH132657-1778.5

10 4				-			14 54 ····	Analyset 1 See	all and they
Frequency	1158 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TITE A WWWWWW LET A NNNNN		Avg Type: Log-P	e Run	Trig: Fre	Hz NO: Wide -•	0000 G	eq 1.78000	Center Fi
Auto Tur	0 000 GHz 15.66 dBm	lkr1 1.78	Mk	O dB	#Atten: 3	Gain:Low	iF 8 dB	Ref Offset 13 Ref 30.00	10 dB/div
Center Fre 1.78000000 GH					1	1			20.0 10.0
Start Fre 1.779000000 GH	100040			1	- 5		1		0.00
Stop Fre 1.781000000 GF	7	~~~	22						40 0 60,0
CF Ste 200.000 kH	,781000 GHz ns (1001 pts)	ep 1.000 i	Sweep		120 kHz	#VBW	-		Res BW
Freq Offs 01					-15.66 d	00 GHz	1,780.00		1 N 2 3 4 5 6 7 7 8 9 10 11
		STATUE	51						50

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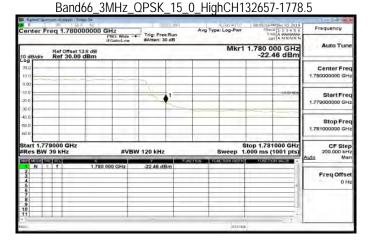
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Band66_3MHz_QPSK_15_0_LowCH131987-1711.5

against Street an address of a second	Sinse		08:48:51 MI Dec 03. 2019	10.4.8
Center Freq 1.710000000		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	iFGain:Low #Atten: 30 d	3	1 1.710 000 GHz -25.04 dBm	
20.0				Center Fre 1.71000000 GH
0.00			-1000-054	Start Fre 1.709000000 GH
46.0				Stop Fre 1.711000000 GP
Start 1.709000 GHz #Res BW 39 kHz	#VBW 120 kHz		Stop 1.711000 GHz 1.000 ms (1001 pts)	CF Ste 200.000 kit
	000 GHz -25.04 dBm	PUNCTION FUNCTION WOTH	PUNCTION VALUE	-
2 3 4 5 6				Freq Offs 0)
5 6 7 8 9				1-
11		STAT		



Band66_5MHz_QPSK_1_0_LowCH131997-1712.5

R.	su- lic		JERISE III		ALIM WITC	08-37/51 PM Dec 03, 2019	Frequency
Center Freq *	1.710000000	PNO: Wide -+	Trig: Free Run #Atten: 30 dB	Avg	Type: Log-Pwr	TRACE 1 2 3 4 5 6	
	Offset 13.8 dB 30.00 dBm			~	Mkr1	1.710 000 GHz -23.42 dBm	
20,0		_		10	-		Center Fre 1.71000000 GH
0.00			- t-	4	2		Start Fre 1.709000000 GH
4D D 50,0							Stop Fre 1.711000000 GH
tart 1.709000 Res BW 51 k		#VBV	V 150 kHz			Stop 1.711000 GHz .000 ms (1001 pts)	CF Ste 200.000 kF Auto Ma
N f 2 3 4	1.71	10 000 GHz	-23.42 dBm	910HC116W-	FUNCTION WIDTH	PANETION VALUE -	FreqOffs
5 6 7 8 9							u,
11 50					STATU	i i	

Band66_5MHz_QPSK_1_24_HighCH132647-1777.5

10.4	M Dec 03, 2019	100.00.000	N DAVINITIES	-	15: 101			9	1 20 -	-	man 19	- 0,9
Frequency	123456	TRAC	Log-Pwr	Avg Typ		Trig: Fre	2); Wide	0000 GH.		req	ter l	en
Auto Tu	ANNNN			_	0 dB	#Atten: 3	alin:Low	iFG		_	_	_
Auto iu	00 GHz 14 dBm		Mkr1				-		Offset 13		BJdiv	ID di
Center Fr										_	1	.og 30.0
1.780000000 G	-	_			-		1	1		_	1	teo
					-		-	~	_	_		0.00
Start Fr				-	1=	have	_	1		_	-	10.0
1.779000000 G				-	-			-	1	-		20.0
		_	_	-	20					~		0.0
Stop Fr					-						-	4D D
1.781000000 G				-					-	_	-	50,0
						_	_	-		-	-	EE D
CF St 200.000 k	1000 GHz 1001 pts)			_	-	150 kHz	#VBW		GHz Hz		t 1.7	
Auto M	IN VALUE	PARKET	CTION WADTH	ierien 1 in		-22.14 di	GHz	8			NUMBER	
Freq Offs				_	enn -	34.04.30	Series	111.00.090		-	-	2
0	_			-	_		-					4
	- 1				1					-	-	5
												6 7 8 9
			-	-								10
	+				_	_	_			1	_	11
	-		STATUS									55

Band66_5MHz_QPSK_25_0_LowCH131997-1712.5

Augment (gentrame Antropyot) Trents Sa							10 4 63
Center Freq 1.71000000	PNO: With Trig:	Free Run	Avg Type:	Log-Pwr	US 39:03 PH Dec TRACE 1 2 THE A W	2455	Frequency
10 dB/div Ref 30.00 dBm	Transitow Protection			Mkr1 1	.710 000	GHz	Auto Tune
-og 30,0 10.0		-					Center Fred 1.710000000 GHz
0.00		*-	-		-		Start Fred 1.709000000 GHz
40 0 50,0 60,0							Stop Free 1.711000000 GH
Start 1.709000 GHz Res BW 51 kHz	#VBW 150 k	Hz	s	Ste weep 1.0	op 1.711000 00 ms (100	1 pts)	CF Step 200.000 kH
No. F 17.11 1 N 1 1 1.7.11 2 3 1 1.7.11 1.7.11 3 4 1 1.7.11 1.7.11 5 6 1.7.11 1.7.11 7 8 1.7.11 1.7.11 9 1.0 1.1 1.1	0 000 GHz -27.6;	2 dBm			PUNCTION VA		Freq Offse 0 Ha
01 1 1 1				STATUS	_	- X -	

Band66_5MHz_QPSK_25_0_HighCH132647-1777.5

against the	(Income days and provide the	Trends Sa				-			10 4 23
Center F	req 1.78	0000000	GHz PNO: Wide -	Trig: Pree Ru	Avg	Type: Log-Pwr	DB-44143 PM TRACE	A NNNN N	Frequency
	Ref Offs	et 13.8 dB	iFGain:Low	#Atten: 30 dB	-	Mkr	1.780 00		Auto Tune
10 dB/div 20,0	Ref 30.	.00 dBm	-		-		-20.2	+ ubm	Center Freq
0.00						_			Start Freq
-30.0						-		~	1.779000000 GHz Stop Freq
Start 1.77	9000 GH	Iz	#VB	W 150 kHz			Stop 1,7810		1.781000000 GH2 CF Step 200.000 kH2
		1 780	800 GHz	-26.24 dBm	PUNCTION	CONCIONADO			Auto Mar
2 3 4 5 6 7 8 9 9				347.44 34211					Freq Offset 0 Hz
7 8 9 10	-								1
11 , MISO	1 1					STAT		· · ·	

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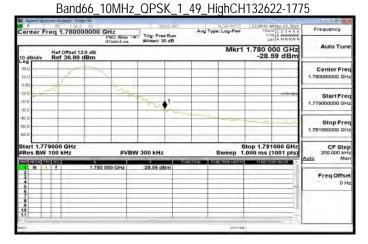
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Band66_10MHz_QPSK_1_0_LowCH132022-1715

Against Stationer Distances i post	19				10.4
Center Freq 1.71000	PNO: Wide	Trig: Free Run	Avg Type: Log-Pwr	12:04:32 4MDec 03, 2019 TRAUE 1 2 3 4 5 6	Frequency
Ref Offset 13	IFGain:Low	#Atten: 30 dB	Mkr1	1.710 000 GHz -28.45 dBm	Auto Tun
-og 30.0 10.0			1	1	Center Fre 1.71000000 GH
0.00 -10.0 -20.0		1	W	- and -	Start Fre 1.709000000 GH
40 0 40 0 60 0					Stop Fre 1.711000000 GH
Start 1,709000 GHz Res BW 100 kHz	1	300 kHz	Sweep 1	stop 1,711000 GHz .000 ms (1001 pts)	CF Ste 200.000 kF Auto Mi
1000 1000 1000 1000 1000 1000 1000 100	1,710 000 GHz	-28.45 dBm	NETION NUMBER		Freq Offse 0 H
8 9 10					



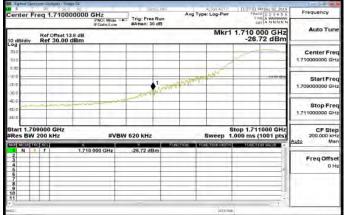
Band66_10MHz_QPSK_50_0_LowCH132022-1715

allant, Maximum The					0.4.63
Center Freq 1.	710000000 GHz	Vide Trig: Pree Run	Avg Type: Log-Pwr	12:05:52 AMDec 03, 2019 TRADE 1 2 3 4 5 6 THE A WWWWW	Frequency
10 dBldiv Ref	iFGain: Ifset 13.8 dB 30.00 dBm	Low #Atten: 30 dB	Mkr1	1.710 000 GHz -27.96 dBm	Auto Tune
20.0 10.0					Center Free 1.710000000 GH
0.00 -10'0 -20 0		•1	- All	1000 (69)	Start Free 1.709000000 GH
40.0					Stop Free 1.711000000 GH
Start 1,709000 #Res BW 100 k	GHz Hz	#VBW 300 kHz	Sweep 1	top 1.711000 GHz .000 ms (1001 pts)	CF Step 200.000 kH Auto Mar
N 1 1	1,710.000 Gł	1z -27.96 dBm			Freq Offse 0 H
5 6 7 8 9 9 10 11			STATUS		

Band66 10MHz QPSK 50 0 HighCH132622-1775

10.4		-				9	and it is not the	- A11 85	and they	- ay
Frequency	12:09:14 AMDec 03, 2019 TRACE 1 2 3 4 5 6	ALIGN NOTO	A	seruse In		000 GH2	80000	'eq 1.	ter Fr	Cen
	LET A NNNN N			rig: Free Run Atten: 30 dB	Wide	PNC		-		
Auto Tur	1.780 000 GHz -27.04 dBm									10 dE
Center Fre									1.1	.0g
1.78000000 GH		-	_	-	-	-	-	_	-	10.0
		_		_		2				0.00
Start Fre	100040	-		1.	_		-	-	-	10.0
1.779000000 GI										20.0
										40.0
Stop Fre			_			-	-	-		0,03
1.781000000 68		-	_		_	-	-	-		60.D
CF Ste 200.000 ki	top 1,781000 GHz 000 ms (1001 pts)			00 kHz	#VBW		Hz	9000 d 100 ki	t 1.77 5 BW	Star Re:
Auto M	PUNCTION VALUE	FUNCTION WIDTH	PONCTION	27.04 dBm	244	1,780 000	-		N	
Freq Offs 01				27.04 300	Seria	1,780 000		-		2745
		-							-	6
									-	8
	+						_			10
1		STATUS			-	_		-		

Band66_15MHz_QPSK_1_0_LowCH132047-1717.5



Band66_15MHz_QPSK_1_74_HighCH132597-1772.5

again (gennangen annyet)	Snigt Sa			The second second second	10 4 63
Center Freq 1.78	0000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	12:02:13 AMDec 03, 2019 TRACE 1 2 3 4 5 6 THE A WWWWW	Frequency
10 dB/div Ref 30.	iFGain:Low	#Atten: 30 dB	Mkr1	1.780 000 GHz -28.02 dBm	Auto Tune
21,0 10.0					Center Freq 1.78000000 GHz
-10.0	Ser VIC	the factor and		1000 (Se	Start Fred 1.779000000 GHz
40.0 60.0 60.0			14 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Stop Free 1.781000000 GH
Start 1.779000 GH Res BW 200 kHz		BW 620 kHz		Stop 1.781000 GHz .000 ms (1001 pts)	CF Step 200.000 kH
	1,780 000 GHz	-28.02 dBm	UNCTION FUNCTION WOTH	PUNCTION VALUE	Auto Man
2 3 4 5					Freq Offset 0 Hz
5 6 7 8 9 10			_		1.
			-	<u> </u>	
50			577 160		

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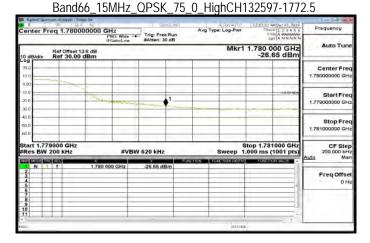
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Band66_15MHz_QPSK_75_0_LowCH132047-1717.5

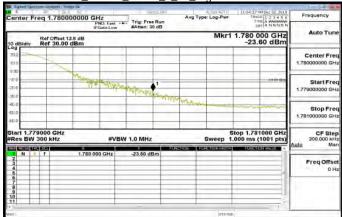
against The	One An experies The	11 SA						10 4 113
Center F	req 1.71000	00000 GHz	Trig: Pree Run	Avg Tvs	ALIGN NOTO	TRACE	123456 A WWWWWW	Frequency
10 dB/div	Ref Offset 13 Ref 30.00	iFGain:Low	#Atten: 30 dB		Mkr1	1,710 00		Auto Tune
20.0 10.0					-			Center Free 1.710000000 GH
-10.0			¢1_		-			Start Free 1.709000000 GH
-40.0 -60.0 -60.0								Stop Free 1.711000000 GH
#Res BW		#VB	W 620 kHz		Sweep 1	Stop 1.7110 .000 ms (10	001 pts)	CF Ste 200.000 kF Auto Ma
1 N 2 4 5 6 7 8 9 10		* 1.710 000 GHz	-27.02 dBm	PUNCTON 1		P LANK, T CON	VALUE •	Freq Offse 0 H
50		-			STATU		- H.	



Band66 20MHz QPSK 1 0 LowCH132072-1720

Barton Stationer Deservation		
Center Freq 1.7100	PMI: East +P+ Trig: Free R	Avg Type: Log-Pwr Treat 1 2 3 4 5 6 Frequency
10 dB/div Ref 30.00	iFGain:Low #Atten: 30 d	Mkr1 1.710 000 GHz -28.75 dBm
20.0 10.0		Center Free 1.71000000 GH
-10.0		Start Free
40 0 60,0 60 0		Stop Free 1.71100000 GH
Start 1,709000 GHz #Res BW 300 kHz	#VBW 1.0 MHz	Stop 1,711000 GHz Sweep 1.000 ms (1001 pts) 200.000 kH 9010100 102 ms (1001 pts) Auto Mar
1 N 1 T 2 3 4 5 6	1,710 000 GHz -28,75 dBm	Freq Offse 0H
5 6 7 8 9 9 10 11		
e Majo		stanie

Band66_20MHz_QPSK_1_99_HighCH132572-1770



Band66_20MHz_QPSK_100_0_LowCH132072-1720

10 4 43		-				at / Trends Sa	an and a second	Augument 18	a
Frequency	11.48 10 PM Dec 02 2019 TRACE 1 2 3 4 5 6 Tree A WAYNAWA	pe: Log-Pwr	Avg	Trig: Free Run	PNO: Fast +	10000000	Freq 1.	nter	Cer
Auto Tune	710 000 GHz -27.55 dBm	Mkr1		#Atten: 30 dB	IFGain:Low	fset 13.8 dB 0.00 dBm		dB/div	10 d
Center Fred 1.71000000 GHz			_		-	_	_	0 0	30.0 10.0
Start Fred 1.709000000 GHz	comites			• ¹ -				0	-10.00
Stop Fred 1.711000000 GHz								0	40 0 60 0 60 0
CF Step 200.000 kH; Auto Mar	p 1.711000 GHz 00 ms (1001 pts)	Sweep 1.		1.0 MHz	#VB		09000 (V 300 ki	es BV	Re
Freq Offse	PLANCTION VALUE	UNCTION WORK	PUNCTION	-27.55 dBm	000 GHz	1,710	1 f	N	
									2345678910 1011
	E.	STATUS					-1-1-		, 1850

Band66_20MHz_QPSK_100_0_HighCH132572-1770

104			-				154	An input (Tom	Gigmen (gen)
Frequency	14 HH Dec 02, 2019 TRACE 1 2 3 4 5 6 TIME A WWWWWW DET A NNNNN	11.55:14 TR	Type: Log-Pwr	A	Trig: Pree Run	Z O: Fast -P-	0000 GH	q 1.78000	enter Fr
Auto Tun	0000 GHz	1.780	Mkr1		#Atten: 30 dB	ain:Low	IFG 8 dB	Ref Offset 13	0 dB/div
Center Fre 1.78000000 GH				_	_	_			og 30,0 10.0
Start Fre 1.779000000 GH	1000-000				• ¹				0.00 10 [.] 0 20.0
Stop Fre 1.781000000 GH									40 0 50,0 500
CF Ste 200.000 kH Auto Ma	781000 GHz s (1001 pts)	.000 ms	Sweep 1		1,0 MHz	#VBW		00 kHz	tart 1,77 Res BW
Freq Offse 0 H					-25.80 dBm	GHZ	1,780,000	f	100 12010 100 1 N 2 4 5 6 7 8 9 9 10
	- F	1	STATUS		-				101 · ·

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Out of Band Emission 30MHz~3GHz Band2 1 4MHz OPSK 1 0 LowCH18607-1850.7

A great T	(and a second se	any and i lim	134			-					10 4
enter	Freq	1.5150	00000 G	Hz	Trig: Pree F	A	vg Type: I	Log-Pwr	TRAC	M Dec 03, 2019	Frequency
			ii ii	Gain:Low	#Atten: 30	18			- 12	TPNNNNN	
Ref Offiset 13.8 dB Mkr1 1.850 6 GHz 10 dB/div Ref 30.00 dBm 26.50 dBm											Auto Tun
-og	-			1		1	-				1
20,0			1								Center Fre
10.0	-										1.515000000 GH
0.00											
10.0									-	-2010-00-0	Start Fre
20.0	-					1					30.000000 MH
40.0						- 1			-		
	48-44	a state of the local division of the		C. Latter	-		-1013				Stop Fre
50,0			-								3.00000000 GH
euu	-	-	1								
Start 30		Milla		#1/D1	N 1.0 MHz	()			Stop 3	.000 GHz 1001 pts)	CF Ste 297.000000 MH
				#VD1	A 1.0 Minz		_	monament			Auto Ma
I N	1 1		1.850	6 GHz	26.50 dBr			III MARKETTA	1.5/1.1	THE VOLUE	
2 3 4						-	-		-		Freq Offse
4							-	- 11		_	0 H
6				-		-	-		10	- 1	
8						-	-				
5 6 7 8 9 10		-				-	-	_			
11		1					_				
(G)	-							STATUS		-	
								-18.040	1		

3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7

Against Spectrum Analysis Trends	194				10 4 43
enter Freq 11.5000	00000 GHz	Trig: Free Run	Aug Type: Log-Pwr	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
Ref Offset 13J	IFGain:Low 8 dB	#Atten: 30 dB		Akr3 5.552 GHz -37.91 dBm	Auto Tune
og 31.0 10.0					Center Free 11.50000000 GH;
					Start Free 3.000000000 GH
40.0	And all all and a second second	an Ingeniari Musi ari na mana		and the second sec	Stop Free 20.000000000 GH
Start 3.000 GHz Res BW 1.0 MHz	#VB	V 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Ma
	3 19,303 GHz 3,701 GHz 5,552 GHz	-32,11 dBm -35,56 dBm -37,91 dBm		PLATH ICR VALUE	Freq Offse
5 6 7 8 9 10 11					
40).			57ATU		

30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880

R SU SU SU	offise.		09 50 38 PM Dec 03, 2019	Frequency
Center Freg 1.515000000	PNO: Fast +++ Trig: Free Ru IFGain:Low #Atten: 30 df	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	In Galini Low Britain. So th		kr1 1.880 3 GHz 26.36 dBm	Auto Tun
20,0 10.0				Center Fre 1.515000000 GH
0.00				Start Fre 30.000000 MH
20.0 40.0 60.0			14377574-1414- 1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Stop Fre 3.00000000 GH
Start 30 MHz Res BW 1.0 MHz	#VBW 1,0 MHz	Sweep	Stop 3.000 GHz 2.000 ms (1001 pts)	CF Ste 297.000000 MH Auto Mi
	.880.3 GHz 26,36 dBm	PUNCTION FUNCTION WIDT	D D D D D D D D D D D D D D D D D D D	FregOffs
3 4 5 6				0)
2 3 4 5 6 7 7 8 9 9				
e la		5781	1	-

3GHz~10GHz Band2 1 4MHz QPSK 1 0 MidCH18900-1880

10 4 4		-				454	An experience	-	a ment	- 01
Frequency	19450:59 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TITL M WWWWW	ype: Log-Pwr	A	Trig: Free Run	Hz	00000 G	11.5000	Freq	nter	er
Auto Tun	DET P NNNN N			#Atten: 30 dB	Gain:Low	iP		-	_	_
	lkr3 5.640 GHz -37.38 dBm	M			200		f Offset 13		B/div	
Center Fre			_				_			.og
11.50000000 GH		-	-	-	-		-	_	-	to a
			_							0.00
Start Fre	1000-000				-			-	_	10.0
3.000000000 GH	0	_	_	1	1 1	-	13	2		30.0
Stop Fre	and and a start	miner	-	Aller Constructions	- Charling		mina	Kine .	ni	40.0
20.00000000 GH				-				-		50,0 60,0
CF Ste	Stop 20.000 GHz 3.33 ms (1001 pts)	Cusan 29		1.0 MHz	#1/B1A			000 G	rt 3.	ita
Auto Mi	and the court press	Sweep 20	PUNCTION	1.0 10112	#104	×			-	_
				-31.69 dBm -35.84 dBm	9 GHz	19.77		11	N	1
Freq Offs 01				-37.38 dBm	i0 GHz I0 GHz	5.64	-	1 1	N	4 5
					-		-		_	6
							-		_	789
							-		-	10
	- F	1.1								
	1	STATUS								\$G

30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

0.4			-					134	Per l'Imp	ο	piterent 12	a
Frequency	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6	0 095	ALIM WITC Type: Log-Pwr	Avs	Pree Run	1.200	Hz NO: Fast	00000 G	.51500	Freq 1	nter	Cer
Auto Tun	.910 0 GHz 26.01 dBm	1kr1 1.	Mk	1	n: 30 dB	#Atten	Gain:Low	IF dB	Offset 13	Ref		
-	26.01 0.61	-	-		-	-	1	dBm	30.00	Ref	BJdiv	10 d
Center Fre 1.515000000 GH					-					-		30.0 10.0
	10000	_		_		-				_	1	0.00
Start Fre 30.000000 MH	1000 400	-		- 11		-					-	20.0
-		مردحتهم	-	-	-		-	-		_	11	40.0
Stop Fre 3.000000000 GH		-										50,0
CF Ste 297.000000 MH	op 3.000 GHz ms (1001 pts)	Ste	Curran 2			W 1.0 MH	#\/B	_		MHz	1 30	
Auto Ma	mis (1001 pts)	_	unsenoseoon	PLACED	112	Sea 1.0 Min	#76	×			-	-
-					1 dBm	26.01	0 GHz				N	
Freq Offse					-							2345
					-							678
												5678910 11
	- F.	4									-	1
		TUB-	57ATH								_	55

3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

against (genouse Arrayat Treas	14		A in the second		10.4
Center Freq 11.5000	00000 GHz	Trig: Free Run	Aug Type: Log-Pwr	10053152 0H Dec 03, 2019 TRACE 1 2 3 4 5 6	
Ref Offset 133	IFGain:Low 8 dB	#Atten: 30 dB		Mkr3 5.728 GHz -36.98 dBm	Auto Tune
30.0					Center Free 11.50000000 GH;
0.00 -100 -200 -300 ∧2 ▲3					Start Free 3.000000000 GH:
40.0	1,2,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,		and the second s		Stop Fred 20.000000000 GH:
Start 3,000 GHz #Res BW 1.0 MHz	#VB	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Step 1.700000000 GH
T N T	19.320 GHz	-32.32 dBm	PUNCTION UNDER CONCIDENT	PLANETICN VALUE	Auto Mar
	3.819 GHz 5.728 GHz	-37.16 dBm -36.98 dBm			Freq Offse 0 H
4 5 6 7 7 8 9 9 10					
453			57410		

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30MHz~3GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Angent i Trempt Sa	L series in		ALIGH WITC		10.4.4
Center Freq 1	.515000000 GHz PNO: Fast IFGain:Low	12 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 TITRACE 1 2 3 4 5 6	Frequency			
10 dB/div Ref	Auto Tun					
20,0 10.0			11			Center Fre 1.515000000 GH
0.00					-1000-050	Start Fre 30.000000 MH
40.0 60.0	Alian and a state of the second state of the s					Stop Fre 3.00000000 GH
Start 30 MHz #Res BW 1.0 M	1Hz #VB	W 1,0 MHz	1	Sweep 2	Stop 3.000 GHz 000 ms (1001 pts)	CF Ste 297.000000 MH
	1.850 6 GHz	26.47 dBm	PUNCTION	UNCTION MIDTH	FUNCTION VALUE	Auto Ma
234		ALL CARD				Freq Offse
5 6 7 8 .9 10						
11 ,		~		STATUS		1

3GHz~10GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

10.4 🖉					-			1.54	an any set of Terms	-	inter a	a y
Frequency	09-40:49 PM Dec 05, 2019 TRACE 1 2 3 4 5 6 Trace P NNNN N		ALIGN MITC	Av	ense Run	12000	Hz	000000	11.500	Freq	ter	Cen
Auto Tun	Ref Offset 13.8 dB Mkr3 5.555 GHz											
	20 dBm	-37.:	aldiv Ref 30.00 dBm								B/div	10 di Log
Center Fre 11.50000000 GH			-		-	-	-	-	-	_	-	10.0
StartFre		-	-		-	_	-		-	_	-	0.00
3.000000000 GH	in	التوديع تد	elim ini		-	Lucion	-		♦3	2	5	20.0
Stop Fre 20.00000000 G											ation.	40 0 50 0 60.0
CF Ste 1.700000000 G Auto M	0.000 GHz (1001 pts)		Sweep 2		z	V 1.0 MHz	#VB	-		000 G V 1.0		tar
FreqOffs	EN VALLE	PROVEN	NC TON WIDTH	PUNCTION:	dBm	-31.33 d -36.11 d -37.20 d	B GHz 3 GHz 56 GHz	3.7			N N N	12
0	-										_	456
					-		-		-		-	5 6 7 8 9 10
	\rightarrow		- 1			-				1	_	11
	_	P]	STATUS							_	-	5/5

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

10 4 🖬	08-42-18 PM Dec 03, 2019	ALD IN MUTCH					From 5.4	An any party of	Agence The		
Frequency	TRACE 1 2 3 4 5 6	ype: Log-Pwr	Avg		Trig: Free	PNO: Fast +1	5000000 0	req 1.51	Center F		
Auto Tun	If cancilow #Atten: 30 dB Eatth Panal 0 dBudiv Ref Offset 13.8 dB Mkr11 1.880 3 GHz 26.60 dBm 26.60 dBm										
Center Fre 1.515000000 GH			71			-	-	_	20,0 10.0		
Start Fre 30.000000 MH	1010-16-16								0.00 10 [°] 0 20 [°] 0 30 [°] 0		
Stop Fre 3.000000000 GH		alter and and	-						40 0 50,0		
CF Ste 297.000000 MH Auto Ma	Stop 3.000 GHz 0 ms (1001 pts)	Sweep 2.0	NCTION -	100	V 1.0 MHz	#VB	×	1.0 MHz	itart 30 l Res BW		
Freq Offs 0 F				im	26,60 dl	10 3 GHz	1.86		1 N 2 3 4		
									5 6 7 8 9 10 11		
		57ATUB							862.1		

3GHz~10GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880

allower Mexicone (%)	anyoni i Tooma Sa				UN AUTO			10 4 1
enter Freq 1	1.50000000	D GHz	SERIEL IVI	Ave Type Lon-Pwr TRACE 12245		09.42.31 PM Dec 03.2019 TRACE 1 2 3 4 5 6		Frequency
	40 GHZ	Auto Tur						
	Offset 13.8 dB 30.00 dBm						2 dBm	
20,0 10.0					_	_		Center Fre
0.00 10 [.] 0					_			Start Fr
x00	•3						Q1	3.000000000 G
D D D D D D D D D D D D D D D D D D D	- Alto - wange - the					2.0 m 1 m		Stop Fr 20.000000000 G
tart 3.000 GH Res BW 1.0 M		#VB	V 1.0 MHz	SW	veep 2	Stop 20. 3.33 ms (*	1001 pts)	CF St 1.700000000 G
NO MODE THE SEL	x	_	Ŷ	PUNCTION FUNCT	ION WIDTH	PROPERTY	NIVALUE -	Auto M
1 N 1 1 2 N 1 1 4 N 1 1 5		9.031 GHz 3.760 GHz 5.640 GHz	-32.01 dBm -34.71 dBm -37.02 dBm					Freq Offs
6 7 8 9								
10			-					
(a)					STATUS			

30MHz~3GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5

10 4 23					-	_		1.54	Street in Terry Street	(11) (11) (11)	ginnet 19			
Frequency	CE 122456			Aug Type: Log-P				Center Freq 1.515000000 GHz						
Auto Tune	Ref Offset 138.06 BM 26.75 dBm 26.75 dBm											10 0		
Center Freq 1.515000000 GHz				11								20,0 10,0		
Start Freq 30.000000 MHz	entre e				_		-	-			-	0.00 -10.0 -20.0		
Stop Freq 3.00000000 GHz	manul			and a				-			-	-30.0		
CF Step 297.000000 MHz Auto Man	3.000 GHz (1001 pts)	Stop : 000 ms	Sweep 2.	1	-	1.0 MHz	#VB	-	AHz	MHz V 1.0 M	rt 30	Sta		
FreqOffset	ION WALLIE	PANEL	NE NON MIDTEL	ALCO DAL		26.75 dE	0 GHz	1.91		1 f	N	1		
0 Hz												23456789011		
	- F.		STATUS			-				- f	_	11 ,		

3GHz~10GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5

Aginat (persone Antroper Tompe 52				10 4 63
Center Freq 11.500000000 GHz	Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	09:45:07 PM Dec 03: 2019 TRACE 1 2 3 4 5 6 TREE MANNAGE PN NN N	Frequency
IFGain:Low Ref Offset 13.8 dB	Auto Tune			
100 0.00				Center Fred 11.50000000 GHz
-100 -200 -200 A2 3				Start Free 3.000000000 GH:
400				Stop Free 20.00000000 GH:
Start 3.000 GHz #Res BW 1.0 MHz #VI	SW 1.0 MHz	Sweep 28	Stop 20.000 GHz 3.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
1 N I I 19,150 GHz 2 N I I 3,817 GHz	-32.27 dBm	NETION OF FUNCTION MOTH	PLANCTION VALUE	
2 N 1 1 3.817 GHz N 1 5.726 GHz 5 6 6 7 8 9 9 9	-36.69 dBm			Freq Offsel 0 Hz
9 10 11 *		STATUE	÷	

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30MHz~3GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

against Sharrows	Anatype i Tomas Sa			-			10 4 63
Center Freq	1.515000000 GHz	Trig: Free Run #Atten: 30 dB	Ava	Aug Type: Log-Pwr Traciii 1 2 3 4 5 Traciii 1 2 3 4 5 Traciii 1 2 3 4 5 Traciii 1 2 3 4 5			Frequency
10 dB/div Re	Auto Tuni						
20,0			21			_	Center Fre 1.515000000 GH
0.00 10.0 20.0							Start Fre 30.000000 MH
30.0 40.0 60.0 60.0			- Jalo's and a second		in and the	nourses	Stop Fre 3.000000000 GH
Start 30 MHz #Res BW 1.0	MHz #VI	BW 1.0 MHz		Sweep 2	Stop 3 2.000 ms (.000 GHz 1001 pts)	CF Ste 297.000000 MH
	1.853 6 GHz	26.56 dBm	PONCTION	FUNCTION WIDTH	PROVIDENCE	IN WALLIE	Auto Ma
2 3 4 5							Freq Offse
5 6 7 8 9 10 11			_				
, , ,	4			STATU		- ×.	

3GHz~10GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

again (perinan da na	unti homus Sa				10 4 63
Center Freq 11	.500000000 GHz	Trig: Free Run	Aug Type: Log-Pwr	198 34:51 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
10 dB/div Ref 3	Auto Tune				
20,0 10.0					Center Fred 11.50000000 GHz
-100 -200 -200	•3			sources	Start Free 3.000000000 GHz
40.0	· Forman and a second	anger an air an	an a she and a she and		Stop Free 20.000000000 GH
Start 3.000 GHz #Res BW 1.0 MH	1z #VE	SW 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
	19,303 GHz 3,705 GHz 5,558 GHz	-31.34 dBm -36.33 dBm -38.73 dBm			Freq Offse 0 H
5 6 7 8 9 10 11					
Nesis :			STATU		-

30MHz~3GHz Band2 5MHz QPSK 1 0 MidCH18900-1880

10 4 63			ALIBRINATE					134	an Annyate i Too	Citizen Manuel	
Frequency	24 PM Dec 05, 2019 TRADE 1 2 3 4 5 6 Tree Monore		Trig: Free Run			NO: Fast ++		q 1.5150	nter Fre		
Auto Tun	rifdancijov sArtien: 30 dB 2017 - 201										
Center Fre 1.515000000 GH				1						10	
Start Fre 30.000000 MH	-coloriges										
Stop Fre 3.000000000 GH		- ALIVER		- lie			-		and the second		
CF Ste 297.000000 Mr Auto Ma	p 3.000 GHz s (1001 pts)	2.000 m	Sweep 2	MCTION-		/ 1.0 MHz	#VBV	×	.0 MHz	art 30 Mi tes BW 1	
Freq Offs 0 F					3m	26.96 d	3 GHz	1.880	1	N 4	
	-					~					
		18	STATU			_			_	9	

3GHz~10GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880

10.4	W Dec 03. 2019	tra:36:44 P	LIGH NUTC		INL INT			R	1000		R
Frequency	123456 MWWWWW	TRAC	: Log-Pwr	Avg Typ	e Run	Trig: Fre	Freq 11.500000000 GHz		Freq	nter	
Auto Tur	DET P NNNN N				#Atten: 30 dB		Gain:Low	iF			-
Auto Tur	Ref Offset 13.8 dB Mkr3 5.640 GHz 10 dB/div Ref 30.00 dBm -38.47 dBm										
Center Fre							-		_		
11.50000000 GH	-		-	-	-	-	-	-	_	_	0
					-		-	-			0
StartFre		-	-	-	-		-	-		_	0
3.00000000 G	AT.				_		-			<u>^2</u>	-
	- and - the	a liter to		-	-ANT	Annalesi	-	-	3-	hind	
Stop Fr											
20.00000000 G				-	-		-	-		_	
CF Ste	.000 GHz	Stop 20		-	-	-	-	-		000 G	
1.700000000 Gi Auto M			Sweep 21			1.0 MHz	#VB			W 1.0	
	ON WALLIE	PAPIETS	CHONIMPIN	NOTION- FIL	Bm	-32.00 d	6 GHz	18.77			N
Freq Offs 01					Bm Bm	-35.61 di -38.47 di	0 GHz 0 GHz	3.76		11	NN
					-						-
1.1	_				_					-	-
											-
	·										

30MHz~3GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

04 23		-					1.54	report of Terms	****** A)1	Assessed in the	a	
Frequency	59 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	TR	ALIM AUTO Type: Log-Pwr	1.515000000 GHz Avg Type: Log-Pwr PNC: Fast Trig: Free Run				enter Freq 1.515000000 GHz				
Auto Tune	907 0 GHz 7.16 dBm	cr1 1.90	Mk	Sain:Low	Ref Offset 13.8 dB							
Center Freq 1.515000000 GHz				- 1					_		20,0 10.0	
Start Freq 30.000000 MHz	courses				-			_	_		10.00 -10.0 -20.0	
Stop Freq 3.000000000 GHz				-					-	-	-10.0	
CF Step 297.000000 MHz Auto Man	p 3.000 GHz is (1001 pts)	Stop	Sweep 2.		0 MHz	#VBW	-	AHz	MHz V 1.0 N			
Auto Man	NETION WALLIE	PARK	FUNCTION WIDTH	PONCTION	27.16.dBm	0 GHz	1,907		T T	N	1	
Freq Offset 0 Hz											23456	
											2 3 4 5 6 7 8 9 10	
	- F.		STATUS		0						*	

3GHz~10GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

Agnes (person Anappet)		17			10.4
Center Freq 11.50		Trig: Free Run	Aug Type: Log-Pwr	10038111 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 Trate At WANN N	Frequency
10 dB/div Ref 30.0	Auto Tune				
20.0 10.0					Center Freq 11.50000000 GHz
-10.0	3				Start Freq 3.00000000 GHz
40.0	the second second	and and interest in the second se	and an here the interaction of	and the second s	Stop Freq 20.00000000 GHz
Start 3.000 GHz #Res BW 1.0 MHz	#VB	N 1.0 MHz	Sweep 28	Stop 20.000 GHz 1.33 ms (1001 pts)	CF Step 1.700000000 GH; Auto Man
T N T	19,167 GHz	-30,62 dBm	NETION FUNCTION WDTH	PUNCTION VALUE	Auto Man
	3.815 GHz 5.723 GHz	-35.92 dBm -36.06 dBm			Freq Offset 0 Hz
5 6 7 8 9 10					
				- F.	
MIG			STATUS		

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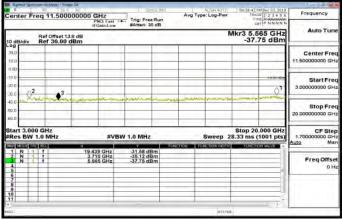


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30MHz~3GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855

against gennen Antropat i Tee	134					10 4 63
Center Freq 1.5150	00000 GHz	Trig: Pree Run	Avg	Type: Log-Pwr	09028-28 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
Ref Offset 1 10 dB/div Ref 30.00	IFGain:Low	#Atten: 30 dB		Mk	r1 1.853 6 GHz 26.55 dBm	Auto Tune
20,0 10.0			1			Center Fre 1.515000000 GH
0.00 -10.0				_	-1000-054	Start Fre 30.000000 MH
-30.0 -40.0 -50.0 -60.0					e are an	Stop Fre 3.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBV	N 1.0 MHz		Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	
NAME AND DESCRIPTION OF A DESCRIPTIONO OF A DESCRIPTION O	1.853 6 GHz	26.55 dBm	DONATION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
2 3 4 5						Freq Offse
5 6 7 8 9 10						
11				STATUS		

3GHz~10GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855



30MHz~3GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880

10 4 🖬							134	An equal 1	Giftern Aber
Frequency	TRACE 1 2 3 4 5 6 TRUE I 2 3 4 5 6	g-Pwr	Avg Type:		Trig: Pree R	NO: Fast ++		eq 1.5150	Center Fr
Auto Tun	877 3 GHz 27.70 dBm	Mkr1	24-1	3	#Atten: 30 d	Gain:Low	3.8 dB	Ref Offset	10 dB/div
Center Fre 1.515000000 GH			71			_			og 20,0 10.0
Start Fre 30.000000 MH	-1310-164				_				0.00 10 0 20 0
Stop Fre 3.000000000 GH	an marine and		Minute State						40.0
CF Ste 297.000000 Mi Auto Ma	op 3.000 GHz ns (1001 pts)	ep 2.00		FOR	1.0 MHz	#VBN	*	1.0 MHz	Start 30 N Res BW
Freq Offs 0 F					27.70 dBm	3 GHz	1.877	1	1 N 4 2 3 4
									5 6 7 8 9 10 11
-		STATUS							, सहय

3GHz~10GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880

10.4				9	- An anyone I Toronte	allows thereas
Frequency	090:38:27 PM Dec 03:2019 TRACE 1 2 3 4 5 6	Aug Type: Log-Pwr	Trig: Free Run	00000 GHz	11.50000	nter Fre
Auto Tur	kr3 5.640 GHz		#Atten: 30 dB	PNO: Fast +0 iFGain:Low		
	-38.52 dBm	IVI			tef Offset 13.8 tef 30.00 di	
Center Fre					-	g
11.50000000 GH					-	10
	and the second se					00
Start Fre 3.000000000 G	01				-	0
		and	-	1. march and the state		0 22
Stop Fr				1		0 264
20.000000000 G			-		-	0
CF St	Stop 20.000 GHz .33 ms (1001 pts)		,0 MHz	#V/BI		art 3.000 tes BW 1.
Auto M			Ý DO	×		
			-31.07 dBm	18,827 GHz 3,760 GHz	1	N
Freq Offs			-38.62 dBm	5.640 GHz	1	
					-	
					-	
			_			4 1 1
		57A THE				

30MHz~3GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

04		-				154	100001	per installe	A new Party	a
Frequency	100 31 46 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL OF PARTY	Action Auto Type: Log-Pwr	Ava	Trig: Free Run	PNO: Fast +	0000 GH	1.51500	Freq 1	nter	Cer
Auto Tune	1 1.901 1 GHz 26.81 dBm	Mkr		#Atten: 30 dB	FGain:Low	8 dB	Offset 13		B/div	10 d
Center Free 1.515000000 GHa			1		-				-	20,0 10.0
Start Free 30.000000 MH	-0000							_		10.00 -10.0 -20.0
Stop Free 3.00000000 GH:			•	-	- mith	-		Wiese US	-	40 0 40 0 50 0
CF Step 297.000000 MH Auto Mar	Stop 3.000 GHz 000 ms (1001 pts)	Sweep 2.0	1	1.0 MHz	#VB	_	WHz	MHz V 1.0 M	rt 30 Is BV	sta #Re
Auto Mar	PLANETICN WALLTE	FUNCTION MOTH	PARTICIPATION	26,81 dBm	1 1 GHz	1,901	-		N	
Freq Offse 0 Ha										2 3 4 5 6 7 8 9 10
	+									8 9 10
		STATUS								, IESO

3GHz~10GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

agant (person der					And the second second		10.4 23
Center Freq 1	1.500000000	GHz	Trig: Free Run	Avg Typ	e: Log-Pwr	199-31:59 PM Dec 03.201 TRACE 1 2 3 4 5 TITE 4	6 Frequency
	offset 13.8 dB	FGain:Low	#Atten: 30 dB		N	1kr3 5.715 GHa -36.85 dBm	Auto Tune
20,0 10.0							Center Freq 11.50000000 GHz
0.00 -100 -200 -300 ⊖2 0 ¹	A3	-					Start Freq 3.00000000 GHz
40.0	the state of the street	and the second	ant a constraint for the state	- country		ng talan ang talang ta	Stop Fred 20.00000000 GHz
Start 3.000 GH: #Res BW 1.0 M		#VBV	/ 1.0 MHz		Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts	1.700000000 GH;
MARE MADE THE SET	×	-	X	PUNCTION: FILM	NUTION WIDTH	FUNCTION VALUE	Auto Man
1 N F 2 N I F 3 N F F 4 5	3.1	683 GHz 810 GHz 716 GHz	-31.89 dBm -35.07 dBm -36.86 dBm				Freq Offset 0 Hz
4 5 7 8 9 10 11							
			-				
RES C					STATUS		

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30MHz~3GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

10.4		-				134	Annymit	an illusione	- ay
Frequency	TRACE 1 2 3 4 5 6	ype: Log-Pwr	Avg	Trig: Free Run	łz	00000 GH	1.5150	er Free	Cen
1.1.1.1.1	LET P NNNNN		#Atten: 30 dB		NO: Fast +• Gain:Low	P IF			_
Auto Tuni	1 1.853 6 GHz 26.50 dBm	Mki	-				ef Offset 1: ef 30.00		10 dE
Center Fre			1			-			.0g
1.515000000 G		-	- 11		-	-			t0.0
	10000								10.00
Start Fre 30.000000 MH			- 1					-	20.0
1			1		-		-		30.0
Stop Fre			Alternation in the Automation	and the second		- molt - e	Art (all and a second	-lighter -	40.0
3.000000000 GH				-			-	-	-60.0
CF Ste 297.000000 MH	Stop 3.000 GHz 000 ms (1001 pts)	Sweep 2.		1.0 MHz	#VBW	-		30 MH BW 1.	
Auto Ma	FUNCTION VALUE	FUNCTION WIDTH	PENCIUM	26.50 dBm	A GHZ	1,853			
Freq Offs									2345
			_				-		5 6 7 8 9
			-						9
	· · · ·		-		1	_	1	11	11
		STATUS							15/3

3GHz~10GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

10 4 63		-					11 ja	any and a line	0	Band 18	a a
Frequency	12:06 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	ALIGN NUTC	Avg	sense IM	124.4	GHz	000000	11.500	req	ter F	Cen
Auto Tune	3 5.573 GHz -38.11 dBm	M		30 dB	#Atten: 3	FGain:Low	17 3.8 dB	Offset 1: 30.00		B/div	10 d
Center Free 11.500000000 GH				-		-			_		20,0 10.0
Start Free 3.000000000 GH								.3	2	~	-10.0
Stop Free 20.000000000 GH			-	and privale				- Aler			-40.0 50.0
CF Ster 1.700000000 GH Auto Ma	op 20.000 GHz 3 ms (1001 pts)	Sweep 28	ONCION		W 1.0 MHz	#VB	-	MHz	00 GH	S BN	#Re
Freq Offse 0 H				dBm dBm	-31.27 d -35.46 d -38.11 d	54 GHz 15 GHz 73 GHz	3.7				1 2 3
											5 6 7 8 9 10 11
L		STATUS									ALSIS

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

a and the	Come An Ingen	1 Trems Sa					-			0 4 63
Center F	reg 1.51	5000000 GH	NO: Fast ++	Trig: Free R	un	Avg Ty	Action ward pe: Log-Pwr	TRACE TRACE	1 2 3 4 5 6 P NNNN N	Frequency
10 dB/div		et 13.8 dB .00 dBm	Sain:Low	#Atten: 30 d	18		Mk	r1 1.874		Auto Tune
20,0 10.0						1				Center Fred 1.515000000 GHz
0.00 -10 0 -20 0 -30 0	-							_		Start Free 30.000000 MH
10.0	were de souter					1.			- stind	Stop Free 3.00000000 GH:
Start 30 #Res BM	/ 1.0 MHz	×	#VBV	V 1.0 MHz	1 116		Sweep 2	Stop 3.0 .000 ms (10	001 pts)	CF Step 297.000000 MH Auto Ma
1 N 2 3 4 5 6 7 8 9 10		1.874	4 GHz	26,55 dBm						Freq Offse 0H
11 , ,	1.1			-	I	1	STATUS		÷,	

3GHz~10GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880

B.	- Annovet 1	12	SERVICE I		ALIGN NUTC	69 34:43 PH Dec 03.20	19
Center Fre	eq 11.5000	00000 GHz	Trig: Pres Ru		: Log-Pwr	TRACE 1 2 3 4 1	Frequency
-		IFGain:Low	#Atten: 30 dB			DET P NNNI	Auto Tun
10 dB/div	Ref Offset 13. Ref 30.00 d	8 dB IBm			N	-38.08 dBr	Z
30.0							Center Fre
10.0	-		-		-		11.50000000 GH
0.00	-						-
10.0	-					-1000-0	Start Fre
20.0						0	3.00000000 GH
40.0	mar Ann	man marine marine		متسحب المحتفات	were the ser		
20.0			1			22	Stop Fre
60.0	-						20.00000000 GH
Start 3.000						Stop 20.000 GH	
		#VB	N 1.0 MHz			3.33 ms (1001 pt	s) 1.70000000 GH
1 N	f	19.473 GHz	-31.92 dBm	PUNCTION: FUE		PUNCTION WALVE	1
2 N 1 3 N 1	1	3.760 GHz 5.640 GHz	-37.12 dBm -38.08 dBm				Freq Offs
4 5						-	
6 7 8							1
9							
10							£
((08)					STATUS		

30MHz~3GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

again (person a)	synt (home Sa			-		10.4 43
Center Freq 1.	515000000 GHz	Trig: Free Run	Avg	Type: Log-Pwr	TRACE 12 3 4 5 6	Frequency
Ref	iFGain:Lon		-	Mk	r1 1,898 1 GHz	Auge Trees
	30.00 dBm		-		26.36 dBm	
20,0 10.0			11			Center Freq 1.515000000 GHz
10:00					-1307-000	Start Free
20.0						30.000000 MHz
40.0	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		-14			Stop Free
0.0						3.000000000 GHz
Start 30 MHz #Res BW 1.0 M	Hz #\	/BW 1.0 MHz		Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
IN I T	1,898 1 GHz	26,36 dBm	PUNCTION:	FUNCTION WIDTH	PLANCTION VALUE	Auto Mar
2 3 4 5 6 7 8 9 10						Freq Offset 0 Hz
6 7 8 9						
10	-					
asço i				STATUS		

3GHz~10GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

104							An expert	man illusio	a a
Frequency	TRACE 1 2 3 4 5 6	g Type: Log-Pwr		Trig: Free Ru	GHz	0000000		ter Fre	Cer
Auto Tun	Ikr3 5.708 GHz -37.40 dBm	M		#Atten: 30 dB	PNO: Fast + IFGain:Low	t 13.8 dB	Ref Offse Ref 30.0	B/div	
Center Free 11.50000000 GH			-			o dBm	Rel SUL	BJdiv	30,0 10.0
Start Free 3.000000000 GH						3		\bigcirc^2	0.00 -10 0 -20 0 -30 0
Stop Free 20.000000000 GH	h		the second	ر او او از اندو به مان او از اندا و او از اندو به مان از		Mar Mary	-hear		40.0
CF Ste 1.700000000 GH Auto Ma	Stop 20.000 GHz 3.33 ms (1001 pts)	Sweep 28		V 1.0 MHz	#VB	-	0 GHz 1.0 MHz	1 3.000 s BW 1	
FreqOffse	PLANE I'EN VALLE	A DRETTON WAR HE	PUNC	-32.11 dBm -34.25 dBm -37.40 dBm	708 GHz 805 GHz 708 GHz	3.1		N 1 N 1	12
OH									4 5 6 7 8 9 10
	- F.	STATUS							*

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30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

again (genne annyn i benn 52		-			10.4 63
Center Freq 1.515000000 G		Avg T	pe: Log-Pwr	TRACE 1 2 3 4	5.6 Frequency
Ref Offset 13.8 dB	FGain:Low #Atten: 30	i dB	Mk	1 1.853 6 GH 26.59 dB	Auto Tune
20,0 10.0		*1	-		Center Fre 1.515000000 GH
0.00 -10.0				-0.000	Start Fre 30.000000 MH
20.0 40.0 50.0		Aur	- in the second		Stop Fre 3.00000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW 1,0 MHz			Stop 3.000 GH 000 ms (1001 pt	s) 297.000000 MH
2 3 4	3 6 GHz 26.59 dB		ndiki ndikatibi ti	FLMGTICK VALUE	Freq Offse
5 6 7 8 9 9 10 11					
tujo			STATUS		

3GHz~10GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

				10 4 63					
00000 GHz	Trig: Pree Run	Aug Type: Log-Pwr	100115111 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TITE 44 WWWWWW	Frequency					
Ref Offset 13.8 dB Mkr3 5.580 GHz 10 dB/div Ref 3.0,00 dBm									
				Center Free 11.50000000 GH					
				Start Free 3.000000000 GH					
and the second				Stop Fre-					
#VB	A 1.0 MHz	Sween 2	Stop 20.000 GHz	CF Ste 1.70000000 GH					
*				Auto Ma					
18,945 GHz 3,720 GHz 5,580 GHz	-32.34 dBm -35.68 dBm -37.30 dBm			Freq Offse					
		STATUR	÷.						
	(FGainLow 8 of B BBM BBM (FGainLow 6 of C BBM (FGainLow 6 of C 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000 CHZ Trig: Free Run PROF. East Trig: Free Run If Cault Low Trig: Free Run BBM Trig: Free Run BM Trig: Free Run FVBW NMHz 18.845 GHz 323.4 dBm 3720 GHz 352.4 dBm	Avg Type: Log.Pwr Prob. Lost	Avg Type: Log.Pvv Trig: Free Run Rettan: 20 dB Avg Type: Log.Pvv Trig: Free Run Rettan: 20 dB BBM					

30MHz~3GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

Bigmen These	An myyet 1	154				0 4 63
Center Fr	eq 1.51500	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	19816:44 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE M WWWWW	Frequency
10 dB/div	Ref Offset 13	IFGain:Low	#Atten: 30 dB	Mk	Auto Tune	
20,0 10.0				71		Center Free 1.515000000 GH;
0.00 -10 ⁰ -200 -200					1310-00	Start Free 30.000000 MH
40.0				- Iti		Stop Free 3.000000000 GH
Start 30 M #Res BW	1.0 MHz	#VE	W 1.0 MHz	Sweep 2	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH Auto Mar
1 N 1 2 3 4		1.874 4 GHz	28.43 dBm			Freq Offse 0 H
5 6 7 9 10 11					,·	
NESO)				STATUS		

3GHz~10GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

Agricult (gentrosen Antroppet from 5.3		SERVICE INT	ALIGH WITC	199:17:04 PM Dec 03.2019	15.4 🖬
nter Freq 11.5000000	D GHZ	Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	iFGain:Low #Att	en: 30 dB	1. A. A.		Auto Tun
Bildiv Ref 30.00 dBm		-	N	Akr3 5.640 GHz -35.38 dBm	Auto Tur
o la					Center Fre
0					11.50000000 GH
0					
0				100066	Start Fre 3.000000000 GH
0 02 0 ¹ 3		1 1 1			3.00000000 G
o the War when when we have	singer and market with	and a star and a star of the	- ALY DE WAL	condicate and an	Stop Fre
D					20.000000000 GH
art 3,000 GHz es BW 1.0 MHz	#VBW 1.0 M	AHZ	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste
			ON THUNCTION WOTH		Auto M
	4.717 GHz -32.0 3.760 GHz -36.1	51 dBm 13 dBm			
N I I	5.640 GHz -35.3	38 dBm			Freq Offs 0)
			STATUS		-

30MHz~3GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

Agrinue Typercourse Agricyces (Tomas Sa		-		10 4 63				
nter Freq 1.515000000 GHz	ree Run	Type: Log-Pwr	109:18:35 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TITLE M WWWWW	Frequency				
Ref Offset 13.8 dB Mkr1 1.892 2 GHz 10 dB/div Ref 30.00 dBm 24.89 dBm								
0	1	-		Center Freq 1.515000000 GHz				
			-1310-164	Start Freq 30.000000 MHz				
	a status and a status		and the second	Stop Free 3.000000000 GHz				
art 30 MHz es BW 1.0 MHz #VBW 1.0 MH	łz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar				
N 1 7 1.892.2 GHz 24.89		FUNCTION MOTO	PANETICN VALUE	FreqOffset				
				0 Hz				
		STATUS		1				

3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

S Alianatic Alianatic Prequency Center Freg 11:000000000 GHz INCT Freg 11:00000000 GHz INCT Freg 11:0000000 GHz INCT Freg 11:00000000 GHZ INCT Freg 11:0000000 GHZ INCT Freg 11:00000000 GHZ INCT Freg 11:000000000 GHZ INCT Freg 11:000000000 GHZ INCT Freg 11:000000000 GHZ IN
Bef Offset 13.8 dB Mkr3.6,5700 GHz 30 -37.95 dBm 300 -37.95 dBm
Cag 3.0 100 3.0 11.500000000 10.0 1
a.xx .xx
20 2 3 30000000 300 30000000 30000000 400 3 30000000 510 20 30000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 200000000 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20 510 20 20
40.0 Stop F 62.0 20.000000000 62.0 Stop F 62
#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1.700000000
MODE TWC SCL X Y PONCTION HUNCTION WIDTH FUNCTION VALUE -
1 N f 19915 OHz -3203 dBm N 7 N 1 7 N 1 7 N 1 7 N 1 7 N 1 7 3 3 1 7 7 1 1 9 3

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台灣檢驗科技股份有限	公司
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30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

Agricul Same Analysis I Tomas Sa	L sense mi	ALDIM MITC	11 (35-23 PM Dec 82, 2019	10.4			
Center Freq 1.515000000 GHz	ant Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency			
IFGain Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	Low #Atten: 30 dB	M	Mkr1 1,711 0 GHz 26,92 dBm				
- 0g 30,0 10.0				Center Fre 1.515000000 GH			
0.00				Start Fre 30.000000 MH			
20.0 40.0 20.0		and the second sec		Stop Fre 3.000000000 GH			
Start 30 MHz Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 2	Stop 3.000 GHz 2.000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma			
1000 1000 1000 1000 1000 1000 1000 100		NCTION FUNCTION MOTH	PLANE (DRIVALITE -	Freq Offse			
7 4 5 6 7 8 9 9 10							
, international states and international state		STATU					

3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7

10.4				-			154	Annyati	Agener (per
Frequency	11 (35:39 PM Dec 82: 2019 TRACE 1 2 3 4 5 6	e: Log-Pwr	Avg	e Run	120.00	GHz	0000000	eq 11.50	enter F
Auto Tune	LET P NNNN N	-	_	0 dB	#Atten: 3	PNO: Fast + FGain:Low			
Huto Turk	kr3 5.132 GHz -33.83 dBm	M						Ref Offset Ref 30.0	0 dB/div
Center Free 11.50000000 GHa						-			30,0 10.0
StartFree	comiga					-	-		0.00
3.000000000 GH:	when here way		-			وينتحمه	الرجيم المحاجة	2 Allan	100 02
Stop Free 20.000000000 GH									50,0
CF Step 1.700000000 GH Auto Mar	Stop 20.000 GHz .33 ms (1001 pts)	Sweep 28	-		N 1.0 MHz	#VB	-		tart 3.00 Res BW
Freq Offse	PLACTER VALUE	NCTION WIDTH	ICTION:	Bm Bm	-32.04 df -39.36 df -33.83 df	116 GHz 421 GHz 132 GHz	× 19.1 3.4 5.1		1 N 2 N 3 N
									5 6 7 8 9 10
					_				9
		STATUS							(S)

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

agmen The	An anyone i Ter	- 154								10 4 63
Center F	req 1.5150	000000 GHz	East +P	Trig: Free		Av	g Type: Log-Pwr	TRACE TRACE	2 3 4 5 6 NNNNN	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	13.8 dB	in:Low	#Atten: 30	0 dB		Mk	Auto Tune		
20,0 10.0	_					1				Center Freq 1.515000000 GHz
-10.0 -10.0 -20.0										Start Freq 30.000000 MHz
Jon P.	14.1.00 (Barrison 14.00)		_			-	- and galling and		~~	Stop Freq 3.00000000 GHz
Start 30 M #Res BW	1.0 MHz		#VBV	/ 1.0 MHz		101	Sweep 2	Stop 3.0 000 ms (10	01 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4		1.734 8	GHz	28,71 dE						Freq Offset 0 Hz
5 6 7 8 9 10 11										
AUSO							STATUS			

3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_MidCH20175-1732.5

against igen	An expert 1 Ton	134				11.27:48 Per Dec 82, 2019	10 4 4		
enter Fr	eq 11.500	Action Auto Avg Type: Log-Pw		Frequency					
		PNO: Fast + IFGain:Low	#Atten: 30 dB			LET P NNNN N	Auto Tun		
10 dB/div	Ref Offset 13 Ref 30.00				N	1kr3 5.198 GHz -35.97 dBm	Autorun		
20.0	_				_		Center Fre		
ta a	-				_		11.50000000 GH		
0.00					_				
0.0						10.00.000	Start Free 3.000000000 GH		
20 00	♦3		A new Carrier			D.			
40.0	and the second second	Confection of the second	Property of the second s		The second second		Stop Free		
50/0 60.0							20.00000000 GH		
tart 3.00 Res BW	0 GHz 1.0 MHz	#VB	W 1.0 MHz	S	Stop 20.000 GHz Sweep 28.33 ms (1001 pts				
NOT MELLE		x	Ŷ	FUNCTION FUNC	TION WIDTH	PUNCTION VALUE	Auto Mi		
	1	19.218 GHz 3.465 GHz 5.198 GHz	-31,35 dBm -38,48 dBm -35,97 dBm		_		Freq Offs		
4 5		0.100 0.12					0)		
6 7									
7 8 9									
11	1.1.				-	· · · · · · · · · · · · · · · · · · ·			
50					STATUS				

30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

0 4 63		-				1.54	and the second se	-	A new P	a
Frequency	11 (39:23 PM Dec 02: 2019 TRACE 11 2 3 4 5 6 TITLE MUNICIPAL	ype: Log-Pwr	Avg	Trig: Free Run	O: Fast -P-	00000 GH	1.5150	Freq	nter	Cer
Auto Tune	1 1.755 6 GHz 27.83 dBm	Mkr		#Atten: 30 dB	ain:Low	3.8 dB	f Offset 1		BJdiv	10 d
Center Fred 1.515000000 GHz									1	39,0 10.0
Start Free 30.000000 MHz		-	+				_	_		10.00
Stop Free 3.000000000 GH		lar	Air		and the second second		-	~	Art	40 0 40 0 50 0
CF Step 297.000000 MH Auto Mai	Stop 3.000 GHz 00 ms (1001 pts)	Sweep 2.0		.0 MHz	#VBW	-	MHz	MHz V 1.0	rt 30	sta
CULV mai	PUNCTION VALUE	FUNCTION WIDTH	PUNCTION	27.83 dBm	GHZ	1,765		1 1	N	
Freq Offset 0 Hz									-	23456
			_							5 6 7 8 9 10
-		STATUS						-		*

3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

0.4.4		-			-	1.54	-An expert (The	Agreen Theorem		
Frequency	11:39:30 PM Dec 02:2019 TRACE 1:2:3:4:5:6 TREE NNNNN	ALIGN MITC	A	Trig: Pree Run	GHz PNO: Fast -+	000000	q 11.500	R Inter Fre		
Auto Tuni	Ref Offset 138.dB Mkr3 5.263 GHz 10 dB/div Ref 30.00 dBm -38.58 dBm									
Center Free 11.50000000 GH			-					0 0		
Start Free 3.000000000 GH							•3	0		
Stop Fre 20.00000000 GH		and the second		(P. Saller and Inc.	a name a s	di nutrebi print	or Uner	0		
CF Ste 1.700000000 GH Auto Ma	Stop 20.000 GHz 33 ms (1001 pts)	Sweep 28	1	1,0 MHz	#VBV	-		es BW 1		
Freq Offse	HARCTON VALUE	UNCTION HAD THE	PUNCTION	-31.28 dBm -39.47 dBm -38.58 dBm	139 GHz 509 GHz 263 GHz	3.5		N 1 N 1 N 1		
		STATUS								

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30MHz~3GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

a games - par	Course An anyone (To	- 13						10 4 43
Center F	req 1.5150	DOODOO GHZ	Trig: Free Run	Av	g Type: Log-Pwr	11/24/35 PM Dec 8 TRACE 1/2 : TITE MWW	2456	Frequency
10 dB/div	Ref Offset		#Atten: 30 dB		Mk	r1 1.711 0 0 26.82 d	GHZ	Auto Tuni
20,0 10.0				1				Center Fre 1.515000000 GH
10.00	_				_	-10		Start Fre 30.000000 MH
30.0 40.0 50.0	ACCEPTION OF THE			abur		-ine		Stop Fre 3.000000000 GH
Start 30 Res BW	MHz / 1.0 MHz	#VB	W 1.0 MHz		Sweep 2	Stop 3.000 .000 ms (1001	pts)	CF Ste 297.000000 MH
		1.711.0 GHz	26.82 dBm	PENCIUM	FUNCTION WOTH	FUNCTION VALUE		<u>uto</u> Ma
2345								Freq Offse D H
5 6 7 8 9								
11	1.1				STATUS		· ·	

3GHz~10GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

again (provine analys)	Trend Sa				10 4 63
Center Freq 11.5	000000000 GHz	Trig: Pree Run	Aug Type: Log-Pwr	11/24:49 PM Dec 02 2019 TRACE 1 2 3 4 5 6 THE MONTON N	Frequency
Ref Offse 10 dB/div Ref 30.	FGain:Low IFGain:Low	#Atten: 30 dB		Akr3 5.135 GHz -34.90 dBm	Auto Tune
20.0 10.0					Center Free 11.50000000 GH
0.00 -10'0 -20'0 -30'0 → 2 ▲3					Start Fre 3.000000000 GH
	and the second second	in the second		and the second	Stop Fre 20.00000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
	19.218 GHz 3.423 GHz 5.135 GHz	-31.94 dBm -39.56 dBm -34.90 dBm			Freq Offse 0 H
5 6 7 8 9 9 10 11					
ANSS			STATU	i e	

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

Against Spectrum Arrangest (Tree	1 54		ALIUN MUYO	11/27/05 PM Dec 02, 2019	10.4.63
Center Freq 1.5150	PNO: Fast ++	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 1: 10 dB/div Ref 30.00	iFGain:Low 3.8 dB dBm	#Atten: 30 dB	Mk	r1 1.731 8 GHz 28.65 dBm	Auto Tun
og 30,0 10.0			1		Center Fre 1.515000000 GH
0.00				1000.00	Start Fre 30.000000 MP
					Stop Fre 3.00000000 GH
start 30 MHz Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Ste 297.000000 Mi Auto Mi
	1.731 8 GHz	28.65 dBm			Freq Offs 0)
5 6 7 8 9 10					
सन्द्र			STATUS		

3GHz~10GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5

O'Burn They	An any state of the state of th	9				0.48
enter Fr	reg 11.50000	00000 GHz	Trig: Free Run	Aug Type: Log-Pwr	11/27/21 PM Dec 02: 2019 TRACE 1 2 3 4 5 6	Frequency
-	Ref Offset 13.8	IFGain:Low	#Atten: 30 dB	N	Akr3 5.198 GHz	Auto Tur
0 dB/div	Ref 30.00 d			7 7	-36.49 dBm	
30,0 t0.0	-					Center Fr 11.60000000 G
0.00						Start Fr
x00	- Ann	باللفاسين فالمسترقطي	a false of the second	And An		3.000000000 G
0.0						Stop Fr 20.000000000 G
tart 3,00 Res BW	0 GHz 1.0 MHz	#VBI	N 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.70000000 G
		15.835 GHz	-32.21 dBm	UNCTION FUNCTION WOTH	FUNCTION VALUE	Auto M
2 N 4 5	1	3.465 GHz 5.198 GHz	-39.44 dBm -36.49 dBm			Freq Offs 0
6 7 8 9						
10	11		~			
(5)				STATHS		

30MHz~3GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5

Agnest (gennen Anaryst Trents Sa							0.4.63
Center Freq 1.515000000	DMC East offer	rig: Free Run Atten: 30 dB	Avg	ALIGN NOTO Type: Log-Pwr	TRACE	Dec 02 2019	Frequency
10 dB/div Ref 30.00 dBm	IFGain:Low	Atten: 30 dB		Mk	r1 1.752 27.7	6 GHz 3 dBm	Auto Tune
30,0 10.0			1	_			Center Freq 1.515000000 GHz
0.00 -100 -200				-			Start Freq 30.000000 MHz
400 400 50,0 60,0			ha	-tor-o		in the	Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1,4	MHz		Sweep 2	Stop 3. .000 ms (1	000 GHz 001 pts)	CF Step 297.000000 MH;
N T 3.	752 6 GHz	7.73 dBm	NCTION	FUNCTION WIDTH	FUNCTIO	N WALLYE	Auto Man
2 3 4 5 6							Freq Offset 0 Hz
2 3 4 5 6 6 7 7 8 9 9 10							
		-		STATUS		- + [*]	

3GHz~10GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5

a against Thes	An any other thanks	1.54				10 4 63
Center Fi	reg 11.500	000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	11/29/51 PM Dec 02:2019 TRACE 1 2 3 4 5 6 TITE Monormal	Frequency
10 dB/div	Ref Offset 1: Ref 30.00	IFGain:Low	#Atten: 30 dB		Mkr3 5.261 GHz -38.34 dBm	Auto Tune
20.0 10.0						Center Fred 11.50000000 GHz
0.00 -100 -200 -300 -72	A3				entitation B	Start Freq 3.00000000 GHz
40.0	AND	e graften og som fører	وسيبابدا وياجر بسيار مرد والرحمية	سيبر والمحمود و	le contrative de la con	Stop Fred 20.000000000 GH:
Start 3.00 #Res BW		#VB	N 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
1 N 2 N	f I	19,915 GHz 3,507 GHz	-32.05 dBm -39.31 dBm	PONCTION HUNCTION MOTO	PLANCTION VALUE	-
3 N 1 4 5 6 7 8 9 10	1	5.261 GHz	-38.34 dBm			Freq Offse 0 H
10 11 ,				STATU		

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30MHz~3GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

a again	an illes	- A	a second i line	154	_		_			_	-			_				10.4
Cente	er Fr	req	1.5150	0000	Ph	WI- East	-	Trig: Free			Av		Log-Pw	ur .	11/17/56 TRA	12 12	3456 NNNN	Frequency
10 dBJ	div		Offset 1 f 30.00		ifd	lain:Los		#Atten: 3	0 dB	1	_		N	Akr1	1.71		GHz	Auge Trees
20,0 - 10.0 -		_				-		_		11	_			-				Center Free 1.515000000 GH
-10:0		_		-				_		+		_					-	Start Fre 30.000000 MH
-30.0	y		and the state of the	-		-		and the second second				_		-	-10	e sel-	-	Stop Fre 3.000000000 GH
Start #Res			MHz	1		#\	/BW	1.0 MHz			_	s	weep	2.00	Stop 3 0 ms	3.000	GHz pts)	CF Ste 297.000000 MH Auto Ma
NACE NO.				×	1.711 () GHz	-	26.78 d	3m	PON	TION	FLING	TION WE		FINIT	ION WAL	.e. •	Auto Ma
2345																		Freq Offse
5 6 7 8 9			-			-	-			_								
11	-	1							-			-	577	TUE		-	<u>.</u>	

3GHz~10GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

ayner iyr	One An experie (The	en la				10 4 63
Center F	req 11.500	000000 GHz	Trig: Free Run	Aug Type: Log-Pwr	11:18:13 PM Dec 02: 2019 TRACE 1: 2:3:4:5:6 Tree Monormon	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	IFGain:Low	#Atten: 30 dB		Mkr3 5.138 GHz -35.12 dBm	Auto Tune
20,0 10.0						Center Free 11.50000000 GH
10.00 -10.0 -20.0	▲3					Start Free 3.000000000 GH
40.0				anna de mon de serviciense.		Stop Free 20.000000000 GH
Start 3.0 #Res BW	1.0 MHz	#VB	W 1.0 MHz	Sweep	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
1 N 2 N 3 N 4	1 1 1	18.453 GHz 3.425 GHz 5.138 GHz	-31.92 dBm -40.32 dBm -36.12 dBm	PORCHON FURCTION WISH		Freq Offse 0 H
6 7 8 9 10						
AUSIC				STAT	8	

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

Bigmen (genteur	- An myynt i Tomas Sa				2		0 4 63
Center Free	1.5150000	PNO: Fast ++	Trig: Free Run	A	rg Type: Log-Pwr	11/19/54 PM Dec 02, 2019 TRACE 1 2 3 4 5 6 Tree M WWWWW	Frequency
10 dB/div	tef Offset 13.8 di	IFGain:Low B	#Atten: 30 dB	.7	Mk	1 1.731 8 GHz 27.85 dBm	Auto Tune
20,0 10.0		-		1			Center Freq 1.515000000 GHz
-10/0 -20/0 -20/0						1010-00	Start Freq 30.000000 MHz
in a			****	Aliman	Marin Provinsion		Stop Freq 3.00000000 GHz
Start 30 MH #Res BW 1.	0 MHz	#VBW	1.0 MHz		Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4	1	1.731 8 GHz	27.85 dBm			1	Freq Offset 0 Hz
5 6 7 8 9 9 10 11							
Augo I					STATUS		

3GHz~10GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5

B Context Freq Context Freq	Quinnet can	An any other the local division of the	D Imm				10.4 1
Image: Law area Prog. Free Run Mikr3 5, 198 GHz Mikr3 5, 198 GHz Auto T 0 diddw Ref 30.00 dBm -36.40 dBm -36.40 dBm Center F 100 -36.40 dBm -36.40 dBm Starts 0 diddw Ref 30.00 dBm -36.40 dBm Starts Starts 0 diddw Ref 30.00 dBm -36.40 dBm -36.40 dBm Starts 0 diddw Ref 30.00 dBm -36.40 dBm -36.40 dBm Starts 0 diddw Ref 30.00 dBm -36.40 dBm -36.40 dBm Starts 0 diddw Ref 30.00 dBm -36.40 dBm -36.40 dBm Starts 0 diddw Ref 30.00 GHz -37.84 dBm -36.40 dBm -37.84 dBm 2 h -3 -37.84 dBm -37.84 dBm -37.84 dBm 2 h -3 -37.84 dBm -37.84 dBm -37.84 dBm 2 h -3 -37.84 dBm -37.84 dBm -37.84 dBm -37.84 dBm 2 h -37.84 dBm -37.84 dBm -37.84 dBm -37.84 dBm -37.84 dBm 2 h -37.84 dBm -37.84 dBm -37.84 dBm -37.84 dBm -37	R	- T 50	1 12 1			TRACE 1 2 2 4 5 6	Frequency
Ref Office 113 dB Mikro 5, 193 dFI 0 dBudy -36.40 dBm 1150000000 Start 1.50000000 300	in the state of the	ing ritore	PNO: Fast		1000	DET P NNNN N	
300 Center I 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 1156000000 100 115600000 100 115600000 100 115600000 110 115600000 110 115600000 110 115600000 110 1156000000 110 1156000000 110 11560000000 110 11560000000 110 11560000000 110 11560000000 110 11560000000 110 1156000000000 110 115600000000000000000000000000					N		Auto Tu
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00 0						10000	Start Er
Stop F Stop F<		.3				01	3.000000000 G
Diamond Stop 20.000 GHz 20.00000000 tart 3.000 GHz #VBW 1.0 MHz Stop 20.000 GHz 20.00000000 tart 3.000 GHz #VBW 1.0 MHz Stop 20.000 GHz 1.70000000 1 N 1 1 12.37 GHz -31.96 GBm 10.70000000 1.70000000 2 N 1 1 3.45 GHz -3.03 GBm 1.70000000 1.70000000 N 1 5 3.640 GBm 1.70000000 1.70000000 1.70000000 N 1 5 3.640 GBm 1.700000000 1.700000000 1.700000000 1.700000000 N 1 5 3.640 GBm	1 ()***	Remain and Barres	and the second second	and the second second	and a service and	and the second second second	
tart 3.000 GHz Res BW 1.0 MHz Stop 20.000 GHz Res BW 1.0 MHz Stop 28.33 ms (1001 pts) 3 2 2 0 1 0 1 2 37 GHz 31 55 GBm dolaton 1 0 1 0 2 1 0 1 0 2 1 0 1 0 Bm 1 1 0 1 0 2 1 0 1 0 Bm 1 1 0 1 0 2 1 0 1 0 Bm 1 1 0 1 0 2 1 0 1 0 Bm 1 1 0 1 0 2 1 0 1 0 Bm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_					Stop Fr 20.00000000 G
VIC BLE (Ling 2x1) X	tart 3.00		#VE	SW 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.700000000 G
2 N 1 3.465 GHz -40.31 GBm			8 10 117 OH		PUNCTION FUNCTION WOTH	PANETION VALUE	Auto M
	2 N 3 N 4 5		3.465 GHz	-40.31 dBm			Freq Offe
0	6 7 8						
	10						
GI STATUS					, Internet		

30MHz~3GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

agent 19	······································	Press Class	1.54			-		-			0 4 63
Center I	Freq 1	.51500	0000 GH	NO: Fast ++	Trig: Free R	un	Avg	ALIGN NOTO Type: Log-Pwr	TR	Per Duc 62, 2019	Frequency
10 dB/div		Offset 13. 30.00 d	8 dB	Sain:Low	EAtten: 30 d	8		M	kr1 1.7	2 6 GHz .80 dBm	Auto Tune
20,0 10.0	_	_				71		_			Center Freq 1.515000000 GHz
0.00	-					-			-		Start Free 30.000000 MHz
30.0 40.0 50.0	-	ا السر ماحجي		atte al second		and			- Hor		Stop Free 3.000000000 GH:
Start 30		MHz		#VBV	V 1.0 MHz	_	-	Sweep 2	Stop 2.000 ms	3.000 GHz (1001 pts)	CF Step 297.000000 MH
		_	1,752	6 GHz	27.80 dBm		TION	FUNCTION MDTH	PLANE	CONVALUE -	Auto Man
2345											Freq Offset 0 Hz
2 3 4 5 6 7 8 9 10							_				
	1.	-			-		-	-	-	- F.	
15/3								STATE	6		

3GHz~10GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

aganer ihre	An anyon I The	19 (S)				10 4 63
Center F	reg 11.500	000000 GHz	Trig: Free Run	Aug Type: Log-Pwr	11/22/68 PM Dec 62, 2019 TRACE 1 2 3 4 5 6 TRE ALWARDOW	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	IFGain:Low	#Atten: 30 dB	N	Ikr3 5.258 GHz -37.62 dBm	Auto Tune
20,0 10.0	_					Center Fred 11.50000000 GHz
-10.0	3				entrope 01	Start Free 3.00000000 GHz
-40,0	second contraction of the	al production of the other starting	aperizer administration of persons and party		and a start of a	Stop Fred 20.00000000 GHz
Start 3.00 #Res BW		#VB	W 1.0 MHz	Sweep 2	Stop 20.000 GHz 3.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
1 N 2 N	f I	19.524 GHz 3.505 GHz	-30.94 dBm -41.02 dBm	UNCTION FUNCTION WATER	PUNCTION VALUE	
3 N 4 5 6 7 8 9		5 258 GHz	-37.62 dBm			Freq Offsel 0 Hz
10 11 ,	11		-	STATUS		

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30MHz~3GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715

Aginer (gentrese Analyze) Soige Sa				0.4 13
Center Freq 1.515000000 GHz	East -P- Trig: Free Run	Aug Type: Log-Pwr	11/11/11 PM Dec 02, 2019 TRACE 1 2 3 4 5 6 TITE 4000000000000000000000000000000000000	Frequency
IFGal Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	n:Low #Atten: 30 dB	M	ur1 1.711 0 GHz 26.78 dBm	Auto Turn
30,0		1		Center Fre 1.515000000 GH
0.00 10.0 20.0				Start Fre 30.000000 MH
40 0 40 0 50 0		16- L		Stop Fre 3.000000000 GH
Start 30 MHz Res BW 1.0 MHz	#VBW 1.0 MHz		Stop 3.000 GHz .000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
AVER TO A CALL OF THE TOTAL OF TOTAL OF THE TOTAL OF TOTALOO OF TOTAL OF TOTALOOF TOTAL OF TOTAL OF TOTALOOF TOTALOOF TOTAL OF TOTAL OF TOT		ANCE FOR THE RECTION AND THE	PARELEX VALUE	Freq Offse 0 H
5. 6. 7. 8. 9. 10. 11.				
eta)		STATU		

3GHz~10GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715

Aginer (persone Anapper Ter	an 1 5 k		A reasonable		0 4 23
Center Freq 11.500	000000 GHz	Trig: Pree Run	Aug Type: Log-Pwr	1111125 PM Dec 02 2019 TRACE 1 2 3 4 5 6 THE M WWWWWW	Frequency
Ref Offset 1 10 dB/div Ref 30.00	IFGain:Low 3.8 dB	#Atten: 30 dB	N	Akr3 5.145 GHz -35.39 dBm	Auto Tune
30.0					Center Free 11.50000000 GH
1000 -1000 -2000 -2000					Start Free 3.000000000 GH
40.0	when and the	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		an a	Stop Fre 20.00000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
1 N 1 1 2 N 1 1 3 N 1 1 4	19,286 GHz 3,430 GHz 5,145 GHz	-32.28 dBm -39.99 dBm -35.39 dBm			Freq Offse 0 H
5 6 7 8 9 10 11					
450			STATUS		-

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

Bigmen Thestown	Anarytes Smear B	9					0 4 63
Center Freq	1.515000	PMD East +1	Trig: Pree Run	A	vg Type: Log-Pwr	11:12:59 PM Dec 02 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
10 dB/div R	ef Offset 13.8 ef 30.00 dE	iFGain:Low	#Atten: 30 dB		Mk	Auto Tune	
20,0 10.0		_		1			Center Freq 1.515000000 GHz
-10 0 -20 0						100-69	Start Freq 30.000000 MHz
40 0	Constanting of	19		11	- mp-ut-	للمحمد المحمد الم	Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0	MHz	#VBI	W 1.0 MHz	PLANETICAL		Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
	r	1.728 8 GHz	28,75 dBm				Freq Offset 0 Hz
7 8 9 10 11							
Augo I					STATUS		

3GHz~10GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5

Citano Marca	Annyati	R I	J SERVICE		ALIGH WITC	48.0302.0	M Dec 82 2019	10.4
Center Fre	eq 11.5000	DOODOO GHZ	1 Sec. 1 1 2 1	Avg Type	: Log-Pwr	TRACE	123456	Frequency
-		iFGain:Low	#Atten: 30 dB	1			an and a start of	Auto Tun
10 dB/div	Ref Offset 13 Ref 30.00	LS dB dBm			N	1kr3 5.1 -36.6	98 GHz 33 dBm	Autoru
20.0	_			_				Center Fre
10.0	-				-			11.50000000 GH
0.00	-							
10.0								Start Fre
30.0 0.2	A3	1					0	3.000000000 G
10.0	a state where	All Share and a stand of the st	hand a strain the state of the	strange - ale	alard - Andrew	المكر ومساليك با	and the second	Stop Fr
50,0								20.000000000 G
tart 3.000		#\/B	W 1.0 MHz		Dunan 2	Stop 20. 8.33 ms (1		CF Ste
NUMBER OF		#VB	ev 1.0 minz	PONCTION 1 FOR		s.33 ms (Auto M
1 N 1	1	18.878 GHz 3.465 GHz	-31,45 dBm -40.05 dBm					
4 5	i	5.198 GHz	-36.63 dBm					Freq Offs
6								
7 8 9							_	
10					-			
50	-				57A TUS	1	- + .	

30MHz~3GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

04			-					154	man i line	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Apres 18	
Frequency	PH Dec 82 2019	TRA	Type: Log-Pwr	Av	Run	Trig: Free	NO: Fast ++	0000 GH	.51500	Freq	nter	Cer
Auto Tune	6 7 GHz	Mkr1 1.746 7 GHz 28.25 dBm				#Atten: 30	Sain:Low	IFC 8 dB	Offset 13		B/div	
Center Fred 1.515000000 GHa				71			_		_		1	20.0 10.0
Start Free 30.000000 MH;	100000											-10.0
Stop Free 3.00000000 GH:		-		1-	-				edorest installes	-	-	40 0
CF Step 297.000000 MH; Auto Mar	3.000 GHz (1001 pts)	000 ms	Sweep 2			1,0 MHz	#VBV		AHz	MHz V 1.0 M	rt 30 es BV	Sta #Re
Freq Offse	ICIN WALLIE	PLOC		PUNCTION	3m	28.25 dB	7 GHz	1.746		1 f	N	1
914												23456789011
	- F.		STATUS			-				1	-	11 ,

3GHz~10GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

agmen iper	And the support of Texas	154				10 4 43			
Center F	reg 11.500	000000 GHz	Trig: Free Run	AUGH AUTO Avg Type: Log-Pwr	11:14:50 PM Dec 02: 2019 TRACE 1: 2:3:4:5:6 THE MUNICIPAL	Frequency			
10 dB/div	Ref Offset 13.8 dB Mkr3 5.250 GHz								
20.0 10.0						Center Fred 11.50000000 GH;			
-10'0	▲3					Start Free 3.000000000 GHa			
40.0	and the second second	Harry Marriel Marriel	a topological and the second	and the second sec		Stop Free 20.00000000 GH:			
Start 3,00 #Res BW		#VBI	N 1.0 MHz	Sweep 2	Stop 20.000 GHz 3.33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar			
	1 1 1	18,708 GHz 3,500 GHz 5,250 GHz	-31.50 dBm -40.39 dBm -35.09 dBm	UNETION FUNCTION MOTH	PLANCTION VALUE	Freq Offse			
5 6 7 8 9 10 11									
				57ATUS					

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30MHz~3GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

Againer (gentrese Anaryst) French Sa	SERVICE IN		ALIBRIWITE	11:00:48 PM Dec 82 2019	10.4
Center Freq 1.515000000 GHz	The second	A	vg Type: Log-Pwr	TRACE 1 2 2 4 5 6	Frequency
PNC: Fast = iFGain:Low	#Atten: 30 dB	-		THE MUNNINN	
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm			Mk	r1 1.714 0 GHz 26.87 dBm	Auto Tun
30.0		11			Center Fre
10.0					1.515000000 GH
0.00					
10.0					Start Fre
20.0		1			30.000000 MP
10.0		aline	and the second second	un march los	
0.03					Stop Fre
60.0		-			3.00000000 GH
Start 30 MHz #Res BW 1.0 MHz #VB	W 1.0 MHz		Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Ste 297.000000 MH
NOTED TAXE DEL X	26.87 dBm	PUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Mi
2 3 4					Freq Offs 0)
5 6 7 8 9 9		_			
9					
10					
			STATUS		-

3GHz~10GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

Against Spectrum Anapper I Trees	u 54		ALIM WITC		(o) 4 (e)
Center Freq 11.5000	DOODOO GHZ	Trig: Free Run	Avg Type: Log-Pwr	11.00:53 PM Dec 02 2019 TRACE 1 2 3 4 5 6 THE M WWW	Frequency
Ref Offset 13	IFGain:Low	#Atten: 30 dB		Akr3 5.153 GHz -35.35 dBm	Auto Tun
20.0 10.0					Center Fre 11.50000000 GH
0.00 -100 -200 -200 -200 -200				entrates O ¹	Start Fre 3.000000000 GH
40 0 40 0 50 0 60 0		4	Personal State State State State State State State	and the second	Stop Fre 20.000000000 GH
Start 3.000 GHz Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Mi
	19,235 GHz 3,435 GHz 5,153 GHz	-31,45 dBm -39,48 dBm -35,35 dBm			Freq Offs 0 F
5 6 7 8 9 10 11					
* 860			STATU		

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

against Sharanna	en angegen i Trempe Sa								0 4 63
Center Freq	1.515000000	PNO: Fast +4	Trig: Free Rus		Avg Type:	Log-Pwr	TRACE 1 2	02.2019 23456	Frequency
10 dB/div Re	f 30.00 dBm	iFGain:Low	#Atten: 30 dB		-	Mkr	GHz	Auto Tune	
20,0 10.0				11	_	_		_	Center Free 1.515000000 GH;
-10.00 -10.0 -20.0					_	_	-	-	Start Free 30.000000 MH
40.0	and the second secon	-		1	1000 million		na lan lin la		Stop Free 3.000000000 GH
Start 30 MHz #Res BW 1.0	1	#VB	V 1.0 MHz	PUNC		weep 2.0	Stop 3.000 00 ms (100	1 pts)	CF Step 297.000000 MH Auto Mar
1 N 1 1	.1.	728 8 GHz	28,50 dBm						Freq Offse 0 Ha
2 3 4 5 7 7 8 9 9 10				_					
(HEGS)						STATUS		×.	-

3GHz~10GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5

against the	Course Arranges (Toronta	9	T			10 4 6
enter F	reg 11.50000	00000 GHz	Trig: Free Run	Avg Type: Log-Pwr	11.02.48 PM Dec 02.2019 TRACE 1 2.3.4.5.6 THE MUNICIPAL	Frequency
0 dB/div	Ref Offset 13.8 Ref 30.00 dl	IFGain:Low	#Atten: 30 dB	N	1kr3 5.198 GHz -36.89 dBm	Auto Tur
.og 30,0 10.0						Center Fre 11.50000000 GP
	_3					Start Fr 3.000000000 G
0.0	the second second	ne cominations	and the street	- minima and		Stop Fr 20.00000000 G
tart 3.00 Res BW	00 GHz 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.700000000 G Auto M
1 N 2 N 3 N		19,099 GHz 3,465 GHz 5,198 GHz	-31.25 dBm -39.34 dBm -36.89 dBm	PUNCTION FUNCTION WORK	PUMETON VALUE	FreqOffs
4 5 7 8 9 0						0
4 I	1.1			574100	· · · ·	

30MHz~3GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5

R Subsection Center Freq 1.51500 Ref Officet 1 10 dB/div Ref 30.00 20 dB/div Ref 30.00	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 30 dB		ALIM NUTO rg Type: Log-Pwr	11:04:14 PM Dec 02, 2019 TRACE 12 2 3 4 5 6 TIME M WWWWW DET P NNNN N	Frequency
10 disudiw Ref 30.00	IFGain:Low	#Atten: 30 dB			DETIP MANANA	
30,0 10,0 10,0 10,0 20,0 20,0				Mk	Auto Tune	
-100						Center Freq 1.515000000 GHz
					estings	Start Freq 30.000000 MHz
40 0 50,0 60 0			4-		and a first star and a second	Stop Free 3.000000000 GH:
Start 30 MHz Res BW 1.0 MHz	#VBV	V 1.0 MHz		Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
N 1 F 3 A	1.743.7 GHz	28.43 dBm	PUNCTION	FUNCTION WIDEN	PANETIEN VALUE	FreqOffset
4 5 6 7 8 9 9						0 Ha
9 10 11 11				-		

3GHz~10GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5

104		-	********					154	n myyatti i Toom	THEFT	0.gime
Frequency	ADE 1 2 3 4 5 6	TRA	e: Log-Pwr	Avg Ty	SERIES INT	1	GHz	000000	11.5000	Freq	R ente
Auto Tun	PNNNNN					#Atten:	PNO: Fast + FGain:Low	6		-	
	243 GHz .00 dBm		N					3.8 dB dBm	Offset 13	Re Re	dBJc
Center Free				_	-	_	-	-			g 10 -
11.50000000 GH	-		-		-	-	-	-	-	-	10
StartFree											00
3.000000000 GH	1				-	-	-	-			0
	- Mumer	- et	in the		-	and the second		-	Anner	Freedow	0
Stop Free 20.00000000 GH											0
CF Step 1.700000000 GH	0.000 GHz (1001 pts)		Sweep 2	-	łz	W 1.0 MHz	#VB			.000 G	art 3
Auto Mar	TION VALUE	PUNCT	NOTION INDITI	PUNCTION: 1.1		Y		×			
Freq Offse		-			dBm	-31.80 d -39.01 d -37.00 d	72 GHz 95 GHz 43 GHz	3.4		1	NN
-					-		-		-	++	
					_						3
					_						
-		1	STATUS								i

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30MHz~3GHz_Band4_20MHz_QPSK_1_0_LowCH20050-1720

· Gigmen Thereit	An any state of the state	9			-			10 4 63
Center Fre	eq 1.51500	0000 GHz	Trig: Pree Ru	Av	Type: Log-Pwr	10 52:08 PM Dec 1 TRACE 1 2 THE MW	3456	Frequency
10 dB/div	Ref Offset 133 Ref 30.00 d	IFGain:Low B dB	#Atten: 30 dB	-	Mk	r1 1.714 0 0 26.97 d	GHZ	Auto Tuni
20,0 10:0				71				Center Free 1.515000000 GH
0.00 -10.0 -20.0								Start Fre 30.000000 MH
-30.0 -40.0 -60.0	Plate Phone Phone			<u></u>			-	Stop Fre 3.000000000 GH
Start 30 M #Res BW 1		#VB	W 1.0 MHz	1	Sweep 2	Stop 3.000 .000 ms (1001	pts)	CF Ste 297.000000 MH
		1,714 0 GHz	26.97 dBm	PONCTION	FUNCTION WIDTH	FUNCTION VAL	æ -	Auto Ma
2 3 4 5								Freq Offse D H
5 6 7 8 9 10								
11	L				STATUS		+	

3GHz~10GHz_Band4_20MHz_QPSK_1_0_LowCH20050-1720

againer (genouse die mynet i					10.4.63
Center Freq 11.50	0000000 GHz	Trig: Free Run	Aug Type: Log-Pwr	10 52 22 0H Dec 02 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL OF NUMBER	Frequency
10 dB/div Ref 30.0	IFGain:Low	#Atten: 30 dB	N	1kr3 5.160 GHz -36.22 dBm	Auto Tune
20,0 10.0					Center Fred 11.50000000 GH;
0.00 -100 -200 -300 -∧2 ▲ ³ -				•••••••	Start Free 3.000000000 GH
40.0			And an and a second second	and the second second	Stop Free 20.000000000 GH
Start 3,000 GHz #Res BW 1.0 MHz	#VB	N 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ster 1.700000000 GH Auto Ma
1 N 1 I 2 N 1 I 4 5	19,065 GHz 3,440 GHz 5,160 GHz	-31.10 dBm -38.48 dBm -36.22 dBm			Freq Offse 0 H
6 7 8 9 9 10 11 11		-	577118		

30MHz~3GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5

		1 0 4 83
O GHZ	Avg Type: Log-Pwr	12 0H Dec 02 2019 TRACE 1 2 3 4 5 6 TITLE ANNUN N
IFGain:Low #Atten: 30 dB	Mkr1 1.1 2	Auto Tune 8.45 dBm
		Center Freq 1.515000000 GHz
		Start Freq 30.000000 MHz
		Stop Freq 3.00000000 GHz
#VBW 1.0 MHz	Sweep 2.000 m	p 3.000 GHz s (1001 pts) Auto Man
1.725 9 GHz 28.45 dBm		Freq Offset 0 Hz
	STATUS	
	PACIFICAT THE THE REAL FILE AND	Avg Type: Log-Perr PKC: Test - Trig: Pres Run PKC: Test - Test - Trig: Pres Run PKC: Test - Test

3GHz~10GHz_Band4_20MHz_QPSK_1_0_MidCH20175-1732.5

R	антунт II эй -	TR .	sérise.0		DTLA N	18 54:46 PM Dec 02, 2019	Frequency
Center Fi	reg 11.5000	PNO: Fast +	Trig: Free Run	Avg Type: Lo	og-Pwr	THE ACTION	Frequency
10 dB/div	Ref Offset 13 Ref 30.00 c		#Atten: 30 dB		м	kr3 5.198 GHz -35.44 dBm	Auto Tun
20,0 10.0	Rei 30.00 C				-		Center Fre 11.50000000 GH
0.00 10 0 20 0	▲3				_		Start Fre 3.000000000 GI
x0.0 40.0 50.0	in the second	monte	er an	and the state of t	-	مير م ² و حد من الله سا يطال الملك	Stop Fr 20.00000000 G
tart 3.00 Res BW		#VB	W 1.0 MHz	Sw		Stop 20.000 GHz .33 ms (1001 pts)	CF St 1.700000000 G Auto M
1 N		19.524 GHz 3.465 GHz	-32.26 dBm -39.92 dBm	PUNCTION FUNCTION	ON WADTH	PLANETICN VALUE	
2 N 1 4 5 6	1	5.198 GHz	-35,44 dBm		-		Freq Offs
7 8 9 10							
11	1.1				STATUS		

30MHz~3GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745

Bigmen Theate	An Anyort 1 Ton	4 54					10 4 63
Center Fre	eq 1.5150	00000 GHz PNO: Fas	Trig: Free Ru		ALIGN MITC Avg Type: Log-Pwr	10:56:06 PM Dec 02: 2019 TRACE 1 2 3 4 5 6 THE MUNNIN	Frequency
10 dB/div	Ref Offset 1: Ref 30.00	iFGain:Lo 3.8 dB	#Atten: 30 dB		Mk	r1 1.737 8 GHz 28.79 dBm	Auto Tune
20,0 10.0	_			1			Center Freq 1.515000000 GHz
0.00 -10.0 -20.0	-						Start Freq 30.000000 MHz
40.0 40.0 50.0				n			Stop Free 3.000000000 GHz
Start 30 M		#\	/BW 1.0 MHz	1	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
IN I	T.	1.737 8 GHz	28.79 dBm	PUNCTS	NU FUNCTION WIDTH	PLINCTION VALUE	runo man
2 3 4 5							Freq Offset 0 Hz
5 6 7 8 9 10							
, , ,	1		-		STATUS		

3GHz~10GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745

again (parte	An expert 1	ar 54				10 4 43
Center Fre	eq 11.500	000000 GHz	Trig: Free Run	Avg Type: Log-Pw	TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 13 Ref 30.00	IFGain:Low	#Atten: 30 dB		Mkr3 5.235 GHz -35.94 dBm	Auto Tune
20,0 10.0						Center Freq 11.50000000 GHz
0.00 -10.0 -20.0 -30.0	▲3				entrates	Start Free 3.000000000 GHz
40.0	- marine -		an la gan an a		In the second second second	Stop Fred 20.000000000 GHz
Start 3.000 #Res BW 1		#VB	W 1.0 MHz	Sweep	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Step 1.700000000 GH; Auto Mar
1 N		19.354 GHz	-31,11 dBm	PUNCTION FUNCTION MDT	H FLANCTION VALUE -	COTA Man
2 N 1 3 N 1	1	3 490 GHz 5 235 GHz	-40.03 dBm -35.94 dBm			Freq Offset 0 Hz
4 5 7 8 9 10						
11	L					
145/5				\$781	10	

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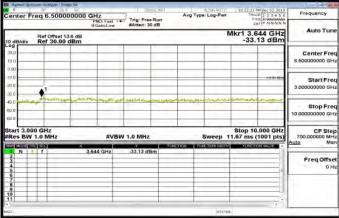
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Report No.: E2/2019/B0012 Page 112 of 232

30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7

10.4			-					<u>1</u> 4	regent i Terregent	τ()	and a	- ay
Frequency	PM Dec 03, 2019	TRA	atten ward a: Log-Pwr	AvgT	e Run	1	Z 40: Fast ++	0000 GH	.51500	Freq	nter	Cen
Auto Tur	4 1 GHz 99 dBm	r3 2.47	Mk	-		#Atten: 3	lain:Low	iFC 5 dB	Offset 13			
Center Fre	99 GBM	-30,		T	1	-	-	Bm 1	30.00 0	Re		10 di .og
1.515000000 GH	-			-	-	-	-		_	_	-	10.0
Start Fre												10.00
30.000000 MH		.3									-	20.0
Stop Fre	-mailen-		i	-	-		- Commenter	and and and	and the second second	14.000	-	40.0
3.000000000 GH									1.1			60,03 66.0
CF Ste 297.000000 MH	.000 GHz 1001 pts)	Stop 3 .000 ms (Sweep 2.			1.0 MHz	#VBV		MHz	MHz V 1.0 (
Auto Ma	ENVALUE -	FUNCT	ALTION MIDTH	1011011	-	28.44 d	0 MHz	806	_		N	
Freq Offs 0 h					Bm	-39,16 d -36,99 d	GHZ	1.649		11	NNN	2 3 4
				-							-	56789
1						_					_	10
	-		STATUS							_		693

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5

again (gennen an myn	11 Trenut Sa				0 4 63
Center Freq 1.5	PNO: East +P	Trig: Free Run	Avg Type: Log-Pwr	18 34:84 PM Dec 03, 2019 TRADE 1 2 3 4 5 6 TIME ANNUN N	Frequency
10 dB/div Ref 30	IFGain:Low eet 13.6 dB .00 dBm	#Atten: 30 dB	Mki	3 2.509 5 GHz -37.44 dBm	Auto Tune
35.0 10.0	11				Center Fred 1.515000000 GHz
-10.0					Start Free 30.000000 MHz
-40.0 -60.0 -60.0		Q ² .		an a	Stop Fred 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
	837.8 MHz 1.673.0 GHz 2.509.5 GHz	28.23 dBm -41.02 dBm -37.44 dBm			Freq Offset 0 Hz
4 6 7 7 8 9 9 10 11					
M\$G			STATUS		

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5

10.4	M Dec 03, 2019		ALIGH WITC		- Sense II		Snigt 34	Anaryzet (man	- 0.9
Frequency	# 12345K	TRAD	e: Log-Pwr	Avg	Law and	GHz	000000 G	eq 6.500	ter Fr	Cen
	PNNNN	10	240		#Atten: 30 dB	PNO: Fast ++				-
Auto Tu	09 GHz 27 dBm	Mkr1 3.6 -33.3	N		_		t 13.6 dB 0 dBm	Ref Offsel	B/div	
Center Fr	_	_		_		-		-		.0g
6.50000000 G	-		-				-	-	-	taa
										10.00
Start Fr 3.000000000 G						-		-1		20.0
	-	and with	James	-	4. Indermoliphe	am	and and a start of the start of	Principles in	alaria -	0.0
Stop Fr 10.00000000 G		-				-				æ.0
10.00000000				_			-		-	6.0
CF St 700.000000 M		Stop 10. 1.67 ms (Sweep 1		1.0 MHz	#VBV		GHz 1.0 MHz	t 3,000 s BW 1	
Auto M	IN WALKE	FUNCTION	NUTION MOTH	PUNCTION	-33.27 dBm	609 GHz	8 3.6		NOTES HOR	4
Freq Offs 0										2345
									-	6 7 8 9
				-						9
	- F.	-				-		11	_	3.6
		P	STATUS							(6)

30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3

10 4 23			-				et 34	num Analyzet (Sm	against ige
Frequency	B PM Dec 03, 2019 RACE 1 2 3 4 5 6 TITLE M WWWWW	TRA	Type: Log-Pwr	Avs	Trig: Free Run	O: Fast ++	PN	reg 1.5150	Center F
Auto Tune	44 9 GHz 3.44 dBm	r3 2.54	Mk		#Atten: 30 dB	lain:Low	3.6 dB	Ref Offset 1 Ref 30.00	10 dB/div
Center Freq 1.515000000 GHz	_		_			-	11		20,0 10.0
Start Freq 30.000000 MHz								-	-10.00
Stop Freq 3.00000000 GHz	and a state of the second s	● ³	autor and the	Q2			-	and a subsequences	30.0 40.0 50.0
CF Step 297.000000 MHz	3.000 GHz s (1001 pts)		Sweep 2.	-	1,0 MHz	#VBW			Start 30 I #Res BW
Auto Man Freq Offset 0 Hz	- HON WALKE	PANET	FUNCTION WOTH	PUNCTION	27.98 dBm -39.19 dBm -38.44 dBm	7 MHz 5 GHz 9 GHz	849.7 1.696 (2.544)		1 N 2 N 3 N 4 5 6
									4 5 6 7 8 9 10 11 ,
			STATUS						45/5

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3

10.4			-				134	- An ergent (T	diamon channe
Frequency	ALE PH Dec 03, 2019 RACE 1 2 3 4 5 6 TITLE ALE NNNNN	TRA	Type: Log-Pwr	A	Trig: Free Run	Z	00000 GH	eq 6.5000	nter Fr
Auto Tun	.817 GHz 2.90 dBm	Mkr1 8.8	N		#Atten: 30 dB	lain:Low	1FC 3.6 dB	Ref Offset 1 Ref 30.00	dB/div
Center Fre 6.50000000 GH			_						0 0
Start Fre 3.000000000 GH		•							0
Stop Fre 10.00000000 GH	ter and a state	-	alus provinciona	Letter property and	an - South	a series	min	2 th mark mark	0
CF Ster 700.000000 MH Auto Ma	10.000 GHz s (1001 pts)	1.67 ms			1.0 MHz	#VBW	-	1.0 MHz	_
Freq Offse 0H		PUMET			-32.90 dBm	7 GHz	8,81		N
	+		STATUS						

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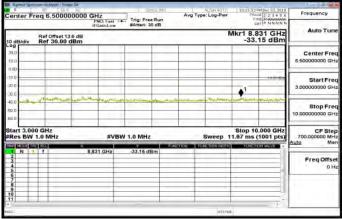


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30MHz~3GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5

10 4 43		-				194	An mynt i Terr	Gigmon (gen
Frequency	10:15:39 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL P NNNN N	Vpe: Log-Pwr		Trig: Free Run	Z C: Fast ++	0000 GH	eq 1.51500	enter Fr
Auto Tuni	2.476 5 GHz -37.62 dBm	Mk	0	#Atten: 30 dB	ain:Low	iFG 6 dB	Ref Offset 13	
Center Fre	-37.62 08m	1	1	1		Bm 1	Ref 30.00 0	dB/div
1.515000000 GH	-		-		-		-	0.0
Start Fre								0.0
30.000000 MH	3		~2					0.0
Stop Fre	and the second	adding	2-		WHELEWING	-con-lab		0.0
3.00000000 GH			-					0.0
CF Ste 297.000000 MH	Stop 3.000 GHz 00 ms (1001 pts)	Sweep 2.		1.0 MHz	#VBW			tart 30 M Res BW
Auto Ma	FUNCTION VALUE	FUNCTION WIDTH	PRINCIPAL	28.41 dBm	MHz	826.0		
Freq Offse 0 H				-39.39 dBm -37.62 dBm	GHZ	1.651 0	1	2 N 4 N
								5 6 7 8 9 0
								0
	· · ·	STATUS						a).

3GHz~10GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5



30MHz~3GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5

Against (process-Arrayan) From Sa		JERISE IIII	ALIMINATO	1017/26 PM Dec 03, 2019	10 4 63					
Center Freq 1.515000000	PNO: Fast ++	Law and the	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TRACE 0 2 3 4 5 6	Frequency					
Ref Offset 13.6 dB	Ref Offset 13.6 dB Mkr3 2.509 5 GHz 10 dB/div Ref 30.00 dBm -35.93 dBm									
20.0	11				Center Free 1.515000000 GH					
0.00 -100 -200					Start Free 30.000000 MH					
40 0 40 0 50,0 60 0	-			and a second	Stop Fre 3.000000000 GH					
Start 30 MHz Res BW 1.0 MHz	#VBW	1,0 MHz		Stop 3.000 GHz 2.000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma					
2 N 1 1 1. J N 1 1 2.	837.8 MHz 673 0 GHz 509 5 GHz	28.32 dBm -40.52 dBm -36.93 dBm	UNE ION I UNE ION WIDT		Freq Offse					
4 5 6 7 8 9 9 10										
सहय ।			STATU	8	-					

3GHz~10GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5

10.4						191 (A	An any set 1 See	(and the second	a need	- 0/
Frequency	10:17:38 PM Dec 03.2019 TRACE 1 2 3 4 5 6	Log-Pwr	Avg T	SERIEL IN	Hz	00000 0	6.5000	Free	nter	Cen
	DET P NNNN			Trig: Free Run #Atten: 30 dB	PNO: Fast +1 FGain:Low					-
Auto Tuni	-33.47 dBm									
Center Fr										.og
6.50000000 G										tu o
0.000000000									11	1.00
-			_		-	-	_		-	100
Start Fr 3.000000000 G								_	1	20.0
0.000000000000			_		-		•	_	4	0.0
	Ale contraction of the second	a summer	- The	Antonin and	1 10 14	2 prover	matrice	-lepel	-	D D
Stop Fr 10.00000000 G			-		-	-		_	-	50,0
			-		-	-		-	-	6.0
CF St 700.000000 M	top 10.000 GHz 7 ms (1001 pts)	ween 11		1.0 MHz	#\/B)	-	Hz	000		
Auto N	PUNCTION VALUE		FONCTION 1	1.9 10112	#***	~	1111111		-	
-	Forential Activ		- Stensts	-33.47 dBm	73 GHz	3:		1	N	
Freq Offs							-		-	23
0										4
									-	67
							-		-	89
			-						-	10
					-		4			1
		STATUS							_	62.

30MHz~3GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5

against pressure de sepret	I Trends Sa				
Center Freq 1.51	5000000 GHz PNO: Fast +++	Trig: Free Run EAtten: 30 dB	Aug Type: Log-Pwr	101314 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
10 dB/div Ref 30.	et 13.6 dB .00 dBm	PARTER: 30 GB	Mk	r3 2.542 5 GHz -37.54 dBm	
20,0 10.0	11				Center Freq 1.51500000 GHz
0.00 -10.0 -20.0				10000	Start Freq 30.000000 MHz
30.0 40.0 50.0	the state of the s	Q2			Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1,0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz
1 N 1 T 2 N 1 T 3 N 1 T 4 5	846,8 MHz 1,695 0 GHz 2,542 5 GHz	28.03 dBm -39.59 dBm -37.54 dBm	HENI FUNCTION WADD'N	PARTETICK/VARSE	Auto Man Freq Offset 0 Hz
4 5 6 7 8 9 9 10 11					
uşa)			STATUS		-

3GHz~10GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5

Bigmen The	(man Analyzet 15				-		-		10 4 23
Center F	req 6.500	000000 GH	z	Trig: Free R	Av	g Type: Log-Pwi	TRA	Dec 03.2019	Frequency
		PN	O: Fast + lain:Low	#Atten: 30 d	8			TE P NNNN N	Auto Tune
Ref Offset 13.6 dB Mkr1 4.841 GH; 10 dB/div Ref 30.00 dBm33.39 dBm33.39 dBm									Auto Tune
	-	-	-						Center Freq
0.00		_	-				_		5.50000000 GHz
30.0 10.0 0.00 -10.0 -20.0 -20.0			-				-	-10.0+64	Start Freq 3,00000000 GHz
-36.0	(TRANTING A)	•		marine an		-	A LUMBER	in an	
50,0			and the second sec			-			Stop Freq
Start 3,00		-	#VB	N 1.0 MHz		Sweep	Stop 10	.000 GHz	CF Step
INCOMENSATION OF	100 SIGN	×	-	¥	PONCTION	LUNCTION MUT			Auto Man
1 N 2 3 4 5 6 7 7 8 9 9 10 11		4,84	1.GHz	-33,39 dBm					Freq Offset 0 Hz
6 7 8									
10									
ANS(G)						STAT	10		

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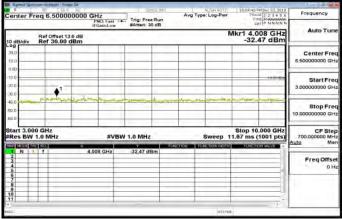


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30MHz~3GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5

again (person deperture	n / home Sa		ALTER WITC	10:04:27 PM Dec 03, 2019	10.4
Center Freq 1.5	15000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
10 dB/div Ref 30	Auto Tun				
20,0 10:0	¢1				Center Fre 1.515000000 GH
0.00 10.0 20.0					Start Fre 30.000000 MH
40 0 40 0 60 0		Q ²		an a	Stop Fre 3.000000000 GH
Start 30 MHz Res BW 1.0 MH	z #VBW	1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Ste 297.000000 MH
1 N 1 7 2 N 1 7 3 N 1 7 4	826,0 MHz 1,653 0 GHz 2,479 5 GHz	28.02 dBm -38.49 dBm -37.81 dBm	ALCTON FUNCTION WIDTH	FUNCTION VALUE	Auto Ma Freq Offse
5 6 7 8 9 10 11					
			STATU	E F	

3GHz~10GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



30MHz~3GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5

against Sherrows Withhat point 24			ALIGN MUTC	10/06/48 PM Dec 03, 2019	10 4 63
Center Freq 1.51500000	PNO: Fast ++	A second second	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	3	EAtten: 30 dB	Mkr	3 2.509 5 GHz -37.20 dBm	Auto Tune
20.0 10.0	11				Center Free 1.515000000 GH;
0.00					Start Free 30.000000 MH
10.0 40.0 (50.0 60.0		02		Limpson	Stop Free 3.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBV	/ 1,0 MHz		Stop 3.000 GHz 100 ms (1001 pts)	CF Stej 297.000000 MH Auto Ma
	834.9 MHz 1.673 0 GHz 2.509 5 GHz	28 28 dBm -39.44 dBm -37.20 dBm	NCTON FUNCTION MOTO	-	Freq Offse 0 H
6 7 8 9 10 11			_		
less			STATUS	÷	

3GHz~10GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5

ingen ähningen i	Trans Sa				-		10.4
req 6.500		PNO: Fast +	Trig: Free Ru	Avg		TRACE 1 2 3 4	5.6 Frequency
Ref Offset 13.6 dB Mkr1 9.902 GHz							
Ref 30.0	JU GBM	1	7 7	-	1	-55.02 00	
		-					Center Fr
	-	-			_		6.50000000 G
-	_	-	-				-
-		-			_		Start Fr
							3.00000000 G
41.1	1. 1. 1.	1		_			5.000000000
a many man	and white	and the second	a sugar and the	100 Leventer	inter and the second	man and	
	1						Stop Fr
		-					10.000000000 G
0 GHz						Stop 10 000 G	Hz CF St
1.0 MHz		#VB	W 1.0 MHz		Sweep 1	1.67 ms (1001 p	(s) 700.000000 M
22 SEL	×	-	Ŷ	PUNCTION.	FUNCTION MOTH	PUNCTION VALUE	Auto M
11	9.9	02 GHz	-33.02 dBm				1
							Freq Offs
					-		0
-							
							19
1.1				· · · · · ·	-		- 1
					STATE		
	Ref Offse Ref 30.0	Ref Offset 13.5 dB Ref 30.00 dBm 0 GHz 1.0 MHz	eg 6.50000000 GHz PMC: Fat - Fidentiae Ref 076et 13.6 dB Ref 30.00 dBm 0 GHz 10 MHz sVB	eq 6.50000000 GHZ Proci Tast - Trig: Free Ru Vicanization Ref Office 135 dB Ref 0.000 dBm 0 0 GHZ 10 MHz #VBW 1.0 MHz	eq 6.50000000 GHZ Processor Pro	eq 6.500000000 GHz Picki tast - Vicanization Arrestmin Automatic Arrest - Statistic Automatic Arrest - Statistic Automatic Arrest - Statistic Ref Office 135 dB Ref office 13	End Store Multi- reg 6.500000000 GHz Proc. tax Store Trig: Free Run Action: 30 dB Augroups: Log-Prov Proc. tax Trig: Free Run Multi- Action: 30 dB Ref Office 135 dB Ref 30.00 dBm Mkr1 9.902 GI -33.02 dB -33.02 dB 0 GHz 10 MHz Free Run Action: 30 dB Store To To To To To To To To To To To To To To To T

30MHz~3GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5

Agener (gennen Arreyer) from 54					10 4 63
Center Freq 1.51500000	D GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	10:08:08 PM Dec 05, 2019 TRACE 1 2 3 4 5 6 TITE 4 WWWWWW	Frequency
Ref Offset 13.6 dB	IF GARDELOW	BALLER. OF LLD	Mk	r3 2.539 5 GHz -38.02 dBm	
30,0 10.0	*1				Center Freq 1.515000000 GHz
0.00 10.0 20.0					Start Freq 30.000000 MHz
30.0 40.0 50.0	di second		2	- A	Stop Free 3.000000000 GHz
Start 30 MHz Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
3 N L T 3	846,8 MHz 1,693 0 GHz 2,539 5 GHz	28.04 dBm -41.54 dBm -38.02 dBm	NACTION HUNCTION WADTE	NAMETICN VALUE	Freq Offset 0 Hz
4 5 6 7 8 9 9					
· · · · · · · · · · · · · · · · · · ·			STATUS	1 () 1	L

3GHz~10GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5

0.4					14	An organ 1 Town	all and the			
Frequency	10:08:21 PM Dec 03.2019 TRACE 1 2 3 4 5 6 TITE M WWWWWW	Aug Type: Log-Pwr	ERISE IVI	1.200	0000 GHz	eq 6.50000	Center F			
Auto Tuni	ICount.tow #Atten: 30 dB certify NNAND Ref Ormat 13.5 dB Mkr1 40.575 GHz 10 dBddy Ref 30.00 dBm -33.95 dBm									
Center Fre 6.50000000 GH							20,0 10.0			
Start Fre 3.000000000 GH	1010-00					1	0.00 -10'0 -20:0			
Stop Fre 10.00000000 GH		us and the second s			amon and	a Trank wanter wanter	40 0 000000000000000000000000000000000			
CF Step 700.000000 MH Auto Ma	Stop 10.000 GHz 1.67 ms (1001 pts)		z	BW 1.0 MHz	#VB	1.0 MHz	Start 3,00 #Res BW			
Freq Offse 0 H	**************************************		IBm	-33.95 df	4.057.GHz		1 N 1 2 3 4 5 6 7 7 8 9 10 11			
		STATUE					* 195			

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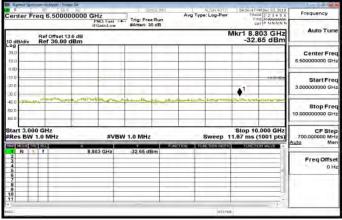
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30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829

0.4							1.54	-Annyat (man	- ay	
Frequency	# Dec 03.2019 # 1 2 3 4 5 6 # MWWWWWW	TIRAD	ALIN MITO		Trig: Free Run #Atten: 30 dB	WI-Last -P-	PA	q 1.5150	ter Fre	Cen	
Auto Tun	7 0 GHz	Ref Offset 13.6 dB Mkr3 2.487 0 GHz 0 dB/div Ref 30.00 dBm - 36.65 dBm									
Center Fre 1.515000000 GH							- 11			30,0 10.0	
Start Fre 30.000000 MH		•3				_		_	_	0.00	
Stop Fre 3.000000000 GH	d m	•	and the second	Q ²			-	9999		40 0 40 0 50 0	
CF Ste 297.000000 MH		Stop 3 .000 ms (Sweep 2.		1.0 MHz	#VBW		Hz .0 MHz	t 30 M s BW 1	Star	
Auto Ma	IN WALLE	PLINCTO	TUNCTION WIDTH	PONCTIC	27.86 dBm	0 MHz	826,0 1,658 0	1	N 1	1 2	
Freq Offse 0 H	-				-36,66 dBm	0 GHZ	2.487 1		N I	3	
										45678910	
	- F.		STATUS						-	* #50	

3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



30MHz~3GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5

agment (gentrame Antropyet Trents Sa			AUNANITS		10.4.63
Center Freq 1.5150000	PNO: Fast -+	Trig: Free Run	Avg Type: Log-Pwr	10058:14 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TIME MOMMANY	Frequency
Ref Offset 13.6 dl 10 dB/div Ref 30.00 dBn	Auto Tune				
20,0 10.0	11				Center Freq 1.515000000 GHz
0.00 -10.0 -20.0	1				Start Free 30.000000 MHz
40.0 60.0 60.0	-	Q2		and inclusion and a second	Stop Free 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
1 N 1 7 2 N 1 7 3 N 1 7 5	834.9 MHz 1.673 0 GHz 2.509 5 GHz	28.29 dBm -40,23 dBm -36,99 dBm			Freq Offse 0 Ha
5 6 7 8 9 9 10 11					
Augo			STATUS	- F.	

3GHz~10GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5

Agenet (pro	Committee Appart 5	inge Sa				10.4
Renter F	reg 6.5000	000000 GHz	sense.0	Avg Type: Log-Pw	TRADE V 2 2 4 5 6	Frequency
		PNO: Fast iFGain:Low	#Atten: 30 dB		LET P NNNN N	
10 dB/div	Ref Offset 1 Ref 30.00				Mkr1 3.994 GHz -33.14 dBm	Auto Tune
31.0		T				-
10.0			1.			Center Fre 6.50000000 GR
0.00			1			5.50000000 6
10.00			1		an in the	
20.0	100.00					Start Fre 3.000000000 G
10.0	↓ ¹	1.000	1			3.000000000 G
4D D Lateran	a systemeter	Marinen	al - market and	and the second s	La phone the	
50,0						Stop Fre
60.D	_					10.000000000 G
tart 3,00	0 GHz 1.0 MHz		SW 1.0 MHz		Stop 10.000 GHz	CF St
		#VE	SW 1.0 MHZ		11.67 ms (1001 pts)	Auto M
		3.994 GHz	-33.14 dBm	PONCTION FUNCTION INDI	H FUNCTION VALUE -	
2						Freq Offs
4 5						0
6						
8						
10					1	
11	1.1.					
901				5781	108-	

30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844

Against Spectrum Arrayse Trent Sa					0 4 63
Center Freq 1.51500000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	00:50:40 PM Dec 05, 2019 TRACE 1 2 3 4 5 6 TRACE P NNNNN	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	kr3 2.532 0 GHz -37.99 dBm	Auto Tune			
og 30.0 10.0	71				Center Free 1.515000000 GH
0.00 18:0 20:0					Start Free 30.000000 MH
	-l	Q	2	his and the second	Stop Free 3.000000000 GH
start 30 MHz Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 3	Stop 3.000 GHz 2.000 ms (1001 pts)	CF Step 297.000000 MH Auto Mai
	840.8 MHz 1,688 0 GHz 2,532 0 GHz	27.65 dBm -39.61 dBm -37.99 dBm	UNCTION FUNCTION WETT		Freq Offse 0 Ha
5 6 7 8 9 9 10 11			57410		

3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844

10.4						_		et 34	Analyzet 15	of the sures	- ay	
Frequency	PM Dec 03.2019	TRA	ALIGN AUTO		rig: Free Ru		GHZ	00000 0	6.5000	er Fred	Cen	
Auto Tun	945 GHz .65 dBm	Ref Offset 13.6 dB Mkr1 3.945 GHz 10 dB/div Ref 30.00 dBm -33.65 dBm										
Center Fre 6.50000000 GH				-			-				28,0 10.0	
Start Fre 3.000000000 GH		-	_	-			-		A1	_	0.00 -10 ⁰ -20 0	
Stop Fre 10.00000000 GH	and where the second	and and the second	- states	and the second	and Manager	- dike			nun al anticipation	ang mage	30.0 40.0 50.0 60.0	
CF Ste 700.000000 MH Auto Ma	0.000 GHz (1001 pts)	11.67 ms			0 MHz	VBW	#\	-	MHz	3,000 BW 1.	Star	
Freq Offse	VERN VALUE	PLOTET	FUNCTION WIDTH	PONET	33.65 dBm		945 GHz	× 3.	ſ		1	
							_				2345678910	
	······································	10	STATU			-			-	1.1	11	

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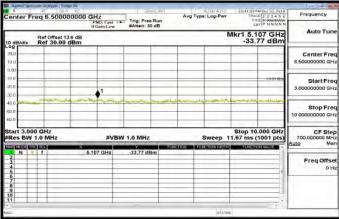
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30MHz~3GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

10.4						134	An myst i Too	against the
Frequency	1040-33 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 Tree 4 WWWWW	e: Log-Pwr	Avg	Trig: Free Run	IZ	00000 GI	eq 1.5150	Center F
Auto Tune	2.338 5 GHz	Mki		#Atten: 30 dB	Gain:Low	ŰF		
	-37.55 dBm		~				Ref Offset 1 Ref 30.00	10 dB/div
Center Fre			_			¥1	_	30,0
1.515000000 GH		-			-		-	10.0
	10000							10.00
Start Fre 30.000000 MH								20.0
		♦3	-	12			-	30.0
Stop Fre		the second se				and the second		40.0
3.000000000 GH								-60.0
CF Ste 297.000000 MH	Stop 3.000 GHz 0 ms (1001 pts)	Sweep 2.		1.0 MHz	#VB	-		Start 30 M #Res BW
Auto Ma	PENETION VALUE	NCTION WIDTH	PENCTION	26.53 dBm	4 MHz			1 N
Freq Offs				-40.04 dBm -37.55 dBm	0 GHz 6 GHz	1.559	1	2 N 3 N 4
								5 6 7 8 9 10
			_		_			9
				_	_			11
		STATUS						150

3GHz~10GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



30MHz~3GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782

Bigmen (gennen Annyer)	Trenge Sa				0.4.63
Center Freq 1.51	PNO: Fast +	Trig: Pree Run	Aug Type: Log-Pwr	10.45.38 PM Dac 03, 2019 TRACE 1 2 3 4 5 6 Trace P NNNN N	Frequency
10 dB/div Ref 30.0	iFGain:Low t 13.6 dB 00 dBm	#Atten: 30 dB	Mk	r3 2.346 0 GHz -38.72 dBm	Auto Tune
30,0 10.0	*1				Center Free 1.515000000 GH
0.00 -10.0 -20.0				1010-10-0	Start Free 30.000000 MH
in n	dinta a chi and a chi and	0 ²			Stop Free 3.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VB	W 1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f	781.4 MHz 1.564 0 GHz 2.346 0 GHz	27 86 dBm -41.10 dBm -38.72 dBm			Freq Offse 0 H
6 7 7 9 9 10 11 *			STATUS		

3GHz~10GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782

0 dB/div Ref	offset 13.6 dB	PNO: Fast +	Trig: Free Ru #Atten: 30 dE	Avg	ALIGN MITO	10:45:03 PM Dec 03.2 TRACE 1 2 3 4	Frequency					
0 dB/div Ref	offset 13.6 dB	IFGain:Low	#Atten: 30 dE			THE MANNE	ww					
0 dB/div Ref	offset 13.6 dB	PGainLow watten: 30 db										
Ref Offset 13.5 dB WIKT 5.594 GHZ 0 dB/div Ref 30.00 dBm -33.46 dBm												
30.0							Center Fr					
10.0		-	-		_		6.500000000 G					
0.00		-			_		_					
0.0		-	-	_	_		Start Fr					
0.0	.1	-		-	-		3.00000000 G					
0.0	A works as here the	-	A Lawrence	in the second	anonen	Louis and the second						
D D D+244, ud/		1					Stop Fr					
6.0							10.000000000					
tart 3,000 GHz Res BW 1.0 M	2		W 1.0 MHz		Curran 4	Stop 10.000 GH	Hz CF St 700.000000 M					
Res BW 1.0 W	IHZ	#VB	N 1,0 MHZ		Sweep 1		Auto N					
NIT	3.1	994 GHz	-33.46 dBm	- One how	TO A SHOW ON OUT	POWETIEN WALDE						
2 3 4							Freq Offe					
5		-			-	-						
7												
8 9							1					
80					STATUS		-					

30MHz~3GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

0.4		-				1 34	An ergent i Ter	ayner yer
Frequency	10.46:25 PM Dec 03.2019 TRACE 1 2 3 4 5 6	ALIGN NOTO	A	Trig: Free Run	łz	00000 GH	reg 1.5150	Center F
Auto Tune	DET P NNNN N	-		#Atten: 30 dB	NO: Fast + Gain:Low	IFC		
	3 2.353 5 GHz -38.49 dBm	Mkr					Ref Offset 1 Ref 30.00	10 dB/div
Center Free						11	_	20.0
1.515000000 GH		_	_		-		-	10.0
			-		-			0.00
Start Free 30.000000 MH								-10.0
30.000000 MH		13	_	02			_	30.0
Stop Free	1	Mar Ironat	-	and		- Il -	detter and the second	
3.000000000 GH								60,0
CF Ster 297.000000 MH	Stop 3.000 GHz	Sweep 2.		V 1.0 MHz	#VB	-		tart 30 P
Auto Mai	FUNCTION VALUE	FUNCTION MADER	PUNCTION	Y I		×	10 900 I	NOT MADE
Freq Offse				27.60 dBm -41.33 dBm -38.49 dBm	4 MHz 0 GHz 6 GHz	784 1.569 2.363	1	
DH		-	_		-			5
					-			7 8
								4 5 6 7 8 9 10
							1	11
		STATUS						850 J

3GHz~10GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

10 4 2					_		4.54	11/11/	() ()	man illes	- Q.J
Frequency	18:48:17 PM Dec 03, 2019 TRADE 1 2 3 4 5 6	Action Natio	A	Series II		Hz	0000 G	5.50000	req 6	ter Fi	Cen
	DET P NNNN N			#Atten: 30 dB		PNO: Fast Gain:Los	ir ir		-		
Auto Tuni	lkr1 4.743 GHz -33.38 dBm	M	~					Offset 13 30.00 c		BJdiv	10 di
Center Free					-		-	_	-		20,0 10.0
		_		_	-	-	_	-	_	-	0.00
Start Free 3.00000000 GH							-11			-	-1010
		المدالل مسر المست	water	Alghout.	-11-	-	mention	and the second	T	in	30.0 40.0
Stop Free 10.000000000 GH											60,03 60,03
CF Step 700.000000 MH	Stop 10.000 GHz 1.67 ms (1001 pts)	Sweep 11		0 MHz	BW .	#V	-			t 3,00 s BW	
Auto Mar	FUNCTION VALUE	FUNCTION WIDTH	PUNCTION	33.38 dBm	-	43 GHz	× 4.7				
Freq Offse 0 H				55.56 Marin		49.521.14.					2 3 4 5 6 7 8 9 10
											678
	;							-			10
	,	STATUS			-			-	-		*

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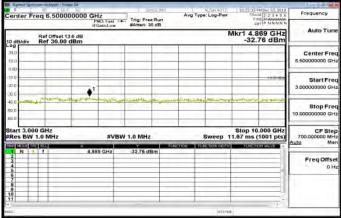


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30MHz~3GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782

0 4 6			-				14	An experience	an Mercen	- ay
Frequency	PM Dec 83, 2019	TRAC	ALIGN WITC	A	Trig: Free Run	IZ	0000 G	1.51500	er Fre	Cen
Auto Tune	6 0 GHz 42 dBm	r3 2.34	Mk		#Atten: 30 dB	Gain:Low	6 dB	of Offset 13.		10 d
Center Fre 1.515000000 GH				_			¥1			20,0 10.0
Start Fre 30.000000 MH				-	-	-			_	0.00 -10:0 -20:0
Stop Fre 3.000000000 GH	- and d				() ²					-30.0 -40.0 -50.0
CF Ste 297.000000 MH	8.000 GHz (1001 pts)	Stop 3 2.000 ms (Sweep 2.		1,0 MHz	#VB			30 MH 8 BW 1.	Star
Auto Ma Freq Offse	DIN WALKE	NSVG11	нов моги	PPHOTON	26.72 dBm -42.30 dBm -36.42 dBm	4 MHz 0 GHz 0 GHz	1.564		N 1 N 1 N 1	1 2 3
UH										5 6 7 8 9 10
	- + [*]		STATUS		-					, tesia

3GHz~10GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



Inband-1_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

agment (gentenme Artaryzet i Sinest Sa				10.4.63
Center Freq 769.000000	PNO: Wide Trig: Free Run	Aug Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1 77	2.396 MHz 50.99 dBm	Auto Tune
20.0 10.0				Center Free 769.000000 MH
-100				Start Free 763.000000 MH
40.0			-0610 066	Stop Free 775.000000 MH
Center 769.000 MHz #Res BW 6.8 kHz	#VBW 6.8 kHz	Sweep 17.27 r		CF Ster 1.200000 MH
2 3 4 5 6 7 7 8 9 9	72 396 MHz 60.99 dBm			Freq Offse 0H
11 , ,		STATUS		_

Inband-2 Band13 5MHz QPSK 1 0 LowCH23205-779.5

10.4						_		Annyatil	and therease	- Q. (1)
Frequency	TRACE 1 2 3 4 5 6	Log-Pwr	Avg T	Brise IVI	1	łz	00000 MH	q 799.00	er Fre	Cent
Auto Tune					#Atten: 3	PNO: Wide				
	Ref Offset 13.5 dB Mkr1 804.544 MHz 10 dB/div Ref 30.00 dBm -61.75 dBm									10 dB
						1	T	T		Log
Center Fr 799.000000 M										20,0 10.0
799.00000 M								1.	1.0	0.00
										100
Start Fr									21	20.0
793.000000 M	772.5							1		30.0
	-0610 den		-	-			-	-	-	40.0
Stop Fr			_			1	1		14	20.0
805.000000 M	•		-	-		Inceres	-			-60.0
CF St 1.200000 M	Span 12.00 MHz 7 ms (1001 pts)		-		6.8 kHz		-	.000 MHz	er 799. BW 6.	
Auto M			Notion .		Ŷ		×		COLUMN DE LE COLUMN	
			-	Bm	-61.75 d	44 MHz	804.5	1	N 1	23
Freq Offs 0			-	-						3456
				-				-		7
				_				_		8
			_			-				10
				-		-				
		STATUS								6(5)

Inband-1_Band13_5MHz_QPSK_1_0_MidCH23230-782

0.4 10			_		_	4.54	Harrist See	THE R. LANSING	Agence		
Frequency	10:44:19 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL STREET	ype: Log-Pwr	Ava	Trig: Free Run	C: Wide	000 MHz	769.000	Freq	^R enter		
Auto Tune	ir Calini.ov #Atten: 30 dB ECEP MINUT 0 dBudiv Ref 30.00 dBm - 61.58 dB -61.58 dBm										
Center Free 769.000000 MHz			_					_	10 10 00		
Start Free 763.000000 MH	-							_	00		
Stop Fred 775.000000 MHz	-3110 dan								0.0		
CF Step 1.200000 MH; Auto Mar	Span 12.00 MHz .27 ms (1001 pts)			6.8 kHz			00 MHz		enter		
Auto Mar	PUNCTION VALUE	LUNCTONIMDIE	PONCTION-	-61.58 dBm	4 MHz	× 773.824			I N		
Freq Offse 0 H									2 3 4 5 6 7 8 9 0		
			_						7 8 9 0		
		STATUS							51		

Inband-2_Band13_5MHz_QPSK_1_0_MidCH23230-782

Augment To	(and the second	and the second second	134	_		-					0 4 23
Center	Freq	799.000	000 MHz): Wide -	Trig: Free	Run	Avg Typ	Log-Pwr	TRAC	M Dec 03, 2019	Frequency
10 dB/div	PRC: Mails Fright Park Processor Processor										
20,0 10.0	_	-									Center Freq 799.000000 MHz
-10'0	_										Start Free 793.000000 MHz
40 0 50,0 60,0		ala								34.10 Km	Stop Fred 805.000000 MHz
Center 7 #Res Bi	V 6.8	kHz		-	W 6.8 kHz				Span 1 7.27 ms (CF Step 1.200000 MH; Auto Mar
1 N 2 3 4 5 6 6 7 8 9 9 10			804.340	MHZ	-61,43 dB				PLOCED.	*******	Freq Offset 0 Ha
11	1	1			-	_		STATU		- · ·	

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Inband-1_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

Arg Type: Log-Per Trig: Free Run Trig: Free Run (Fdmit.ow Trig: Free Run Atten: 30 dB Trig: Free Run Trig: Free Run Trig: Free Run Atten: 30 dB Trig: Free Run Trig: Free	ay ay	1 1 mail	-	Analyzet i Sama	1.54	-					-		0 4 63
Bef Officiation SAttent 30 dB Mkt1 772.672 MHz Auto Tur 10 diologic Ref 30.00 dBm -61.41 dBm Center Fre 300 -61.41 dBm -61.41 dBm Start Fre 300 -61.41 dBm -61.41 dBm Center Fre 300 -61.41 dBm -61.41 dBm -61.41 dBm Center Fre -61.41 dBm -61.41 dBm -755.00000 MHz Free SW 6.8 kHz -51.41 dBm -61.41 dBm -61.41 dBm 2 1 -772.672 MHz -51.41 dBm -61.41 dBm 300 - - - - - 2 1 - - - <td>Cen</td> <td>ter l</td> <td>Freq</td> <td>769.000</td> <td>000 MH</td> <td>z</td> <td>1.2.2.2.2</td> <td></td> <td>Avg Typ</td> <td>ALIGN NOTO</td> <td>TRA</td> <td>123456</td> <td>Frequency</td>	Cen	ter l	Freq	769.000	000 MH	z	1.2.2.2.2		Avg Typ	ALIGN NOTO	TRA	123456	Frequency
10 dialow Ref 30.00 dBm -61.41 dBm Center Free 30.00 dBm -61.41 dBm Center Free 30.000 dBm -61.41 dBm Center Free 30.000 dBm -753.00000 dBm -753.000000 dBm -753.00000 dBm -753.000000 dBm -753.00000 dB		_	P	Offeret 12	iF	Gain:Low	#Atten: 3	0 dB	-	Mk	r1 772.0	572 MHz	Auto Tun
300 300 Center Free 300 3	10 de	3/div				_			-	-	-61	41 dBm	
Bit International Internatinternatine International International International Internation	30,0		-										Center Fre 769.000000 MH
100 1	0.00	-	-	-	-	-				-	-	-	
46.0 1 1 1 1 1 1 1 1 775,00000 MHz 1				_									Start Fre 763.000000 MH
Center 769.000 MHz SVBW 6.8 kHz Span 12.00 MHz Stop Fre T775.0000 MHz Center 769.000 MHz #VBW 6.8 kHz Sweep 17.27 ms (1001 pt) L0000 MA L0000 MA L0000 MA L00000 MHz L0000 MHz L0000 MHz L0000 MA L000 MA	30.0	-	_	_		-				-	-	0410.000	
Scole Span 12.00 MHz Span 12.00 MHz CF Stress Center 769.000 MHz SVBW 6.8 KHz Sweep 17.27 m (1001 pts) L20000 MA Center 769.000 MHz T 772.672 MHz -51.41 dBm Sweep 17.27 m (1001 pts) L20000 MA N T 772.672 MHz -51.41 dBm Sweep 17.27 m (1001 pts) L07.8101000 M L20000 MA 2 T T 772.672 MHz -51.41 dBm Sweep 17.27 m (1001 pts) L07.8101000 M L00 Muto											.1		
Res BW 6.8 kHz #VBW 6.8 kHz Sweep 17.27 ms (1001 pts) 120000 MM 100000 MM 100000 MM 100000 MM Model <	60.03	inter	the state		an	in	-	and any installed		a suite	Lanna	man	110,00000 111
No Y T Advances Extension Extensin						#VB	W 6.8 kHz	×	-	Sweep 1	Span 7.27 ms	(1001 pts)	CF Ste 1.200000 MH
2						2 Miles	61 41 48			на пон мотн	FIGNET	ION WALLYE	Auto Mi
	234				172.00	A UNCIA	51,41,91	en .		_			
	6			-									
	9 10 11												
	*	-	-				-			STATU		- F	

Inband-2_Band13_5MHz_QPSK_1_0_HighCH23255-784.5 enter Freq 799.000000 MHz Wide ---- Trig: Free Run Mkr1 796.420 MHz -61.09 dBm



Inband-1_Band13_10MHz_QPSK_1_0_MidCH23230-782

Agener (person Arrayat) 5-					0.4.63
Center Freq 769.00	PNO: Wide -+	Trig: Free Run	Aug Type: Log-Pwr	10.56:56 PM Dec 0.5, 2019 TRACE 1 2 3 4 5 6 Tree 44 WWWWWW	Frequency
Ref Offset 1 10 dB/div Ref 30.00	iFGain:Low 3.6 dB dBm	#Atten: 30 dB	Mkr	1 763.156 MHz -61.01 dBm	Auto Tune
20,0 10,0					Center Free 769.000000 MH
-100					Start Free 763.000000 MH
40 0 50,0 60,0				-010.000	Stop Free 775.000000 MH
Center 769.000 MHz #Res BW 6.8 kHz	#VBW	6.8 kHz	1 1 1 1 1	Span 12.00 MHz 7.27 ms (1001 pts)	CF Ste 1.200000 MH Auto Ma
1 N 1 F 2 3 4	763.156 MHz	-61,01 dBm			Freq Offse 0 H
5 6 7 8 9 10 11					

Inband-2 Band13 10MHz QPSK 1 0 MidCH23230-782

10.4						et 54	Anayati S	and idealogue	- D.y.s			
Frequency	10/27/27 PM Dec 03, 2019 TRADE 1 2 3 4 5 6 TITE ALWANNE	ALIM NUTO	Av	Trig: Free Run	Hz PNO: Wide	0000 MH	q 799.00	er Fred	Cent			
Auto Tun	PNO: Wide TOU-Free Roll Infinition #Atten: 30 dB Infinition Mkr1 798,160 MHz											
auto (u	-61.52 dBm	Mkr					tef Offset 1 Ref 30.00		10 de			
Center Fre			_					1	-og			
799.000000 MH				-	-				10.0			
		-			-	-	-	-	0.00			
Start Fre		-			-	-	-		10.0			
793.000000 MI						-	-		20.0			
	0.000				-	-	-	_	0.0			
Stop Fr		-			-	-			4D D			
805.000000 Mi				A1	-	-			0/03			
	and the second s	side and the second		here	and the second day	petro an	a vindens	بنبعه	66.0			
CF Ste 1.200000 Mil	Span 12.00 MHz .27 ms (1001 pts)	Sweep 17		.8 kHz	#VB	-	000 MHz 8 kHz	er 799. BW 6.				
Auto M	PUNCTION VALUE	UNCTION WADTH	PONETION.	-61.52 dBm	160 MHz	708 1						
Freq Offs				STOR MAIN	OD HIELA	1,00.	1		23			
0									4			
			_					-	6			
									89			
			-						10			
	- F				-							
		STATUS							50			

30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_LowCH131979-1710.7

Against Spectrum Anarphet Tomas Sa					10 4 63
Center Freq 1.51500000	PMO: East -P- Trig	Free Run	Aug Type: Log-Pwr	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	in campion of the	en: 30 dB	Mk	r1 1.711 0 GHz 26.84 dBm	Auto Tune
og 31,0 10.0					Center Free 1.515000000 GH
20.0				4010-055	Start Free 30.000000 MHz
400 500 500	eter i en	le			Stop Free 3.00000000 GH
Start 30 MHz Res BW 1.0 MHz	#VBW 1.0 M	AHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH Auto Mai
		34 dBm	TIGNICE LUNCTION WIDTH	PLOTETICN VALUE	
2 1 4 3 4 5 6 7 7 9 9					Freq Offse 0 H
10			STATUS	· · ·	

3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_LowCH131979-1710.7

10 4 2	The second second second					134	An anyone of The	agmen ipen
Frequency	199107:18 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 TITLE MINIMUM	Type: Log-Pwr		Trig: Free Run	GHz PNO: Fast	0000000	eq 11.50	Center Fr
Auto Tun	Ikr3 5.132 GHz -33.65 dBm	M		#Atten: 30 dB	FGain:Low	13.8 dB	Ref Offset	10 dB/div
Center Fre 11.50000000 GH					-			20,0 10.0
Start Fre 3.000000000 GH					-		▲3	0.00 -10 0 -20 0 -20 0
Stop Fre 20.00000000 GH	e	~~~~~					detrilien	40.0
CF Ste 1.700000000 GH Auto Ma	Stop 20.000 GHz 3.33 ms (1001 pts)	Sweep 28	_	N 1.0 MHz	#VB	-		Start 3.00 Res BW
Freq Offse	PANELICK WALKE	FUNCTION WORK	PUNCT	-31,69 dBm -39,68 dBm -33,65 dBm	66 GHz 21 GHz 132 GHz	3.4		1 N 1 2 N 1 3 N 1 4 5
								4 5 7 8 9 10 11
		STATUS						* 450

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30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322-1745

Service of the servic							10 4 63
Center Freq 1.515000000	PNO: Fast ++++	Trig: Free Run		g Type: Log-Pwr	TRACE TRACE	Dec 03.2019	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	IFGain:Low	#Atten: 30 dB		м	kr1 1.746	-	Auto Tuni
-og 30,0 10.0			1				Center Fre 1.515000000 GH
0.00	-						Start Fre 30.000000 Mi
20.0 40.0 50.0			-	الم مع المرجعة المنترين		-	Stop Fre 3.000000000 GH
Start 30 MHz Res BW 1.0 MHz	#VBW	1,0 MHz		Sweep :	2.000 ms (1		CF Ste 297.000000 MM Auto Mi
1 N 1 F 3.7 2 3	46 7 GHz	28.27 dBm					Freq Offs 0)
5 6 7 8 9 10							
es:				STATE	10	- A	

3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322-1745

Against Spectrum Analysis (Trees	u 54	Serve mil	ADDONISC		
Center Freq 11.5000	000000 GHz	Law a start	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast + IFGain:Low	#Atten: 30 dB		Akr3 5.235 GHz	Auto Tun
10 dB/div Ref 30.00 d				-37.75 dBm	
30,0					Center Fre
10.0					11.50000000 GH
-100					Start Fre
300 33 43			-	01	3.000000000 GH
400 man man	and the second sec	ومرجعه ومرا المراجع والمالية	and the second second	a mana	Stop Fre
60.0					20.00000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VB4	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.70000000 GH
	19.133 GHz	-31.08 dBm	NCTION FUNCTION MOTH	FUNCTION VALUE	Auto Ma
2 N 1 1 3 N 1 1 4	3.490 GHz 5.235 GHz	-39.98 dBm -39.75 dBm			Freq Offse
5 6					
6 7 8 9					
10				÷	
* 1655			STATU		

30MHz~3GHz Band66 1 4MHz QPSK 1 0 HighCH132665-1779.3

Big men (genteum Arterpret Torent Sa					0 4 63
Center Freq 1.5150000	00 GHz	Trig: Free Run	Avg Type: Log-Pwr	104:10:14 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 Tree M WWWWW	Frequency
Ref Offset 13.8 d 10 dB/div Ref 30.00 dBr	IFGain:Low	#Atten: 30 dB	Mk	r1 1,779 3 GHz 28.40 dBm	Auto Tune
20.0					Center Freq 1.515000000 GHz
0.00 -10.0 -20.0				0000	Start Freq 30.000000 MHz
400 400 500		******	Augustani	-interpretation	Stop Free 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH Auto Mar
N 1 7 3 4 5 6 7 7 8 9 9	1.779 3 GHz	28.40 dBm			Freq Offset 0 Hz
7 8 9 10 11					
(ușa)			STATUS		-

3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3

Against Sheet	Annyati	4.54	Service II		ALIGH WITCH	69/16/27 PM Dec 03, 2019	10.4 6
enter Fr	eq 11.5000	000000 GHz	The second second	Ave Type	Log-Pwr	TRADE 1 2 3 4 5 6	Frequency
		PNO: Fast + iFGain:Low	#Atten: 30 dB			LET P NNNN N	
10 dB/div	Ref Offset 13 Ref 30.00 d				N	1kr3 5.338 GHz -36.61 dBm	Auto Tur
20.0				_	_		Center Fre
taa	-				_		11.50000000 G
0.00						com the	
20.0					_	-1000-004	Start Fre 3.000000000 G
00 12	A3				_	01	3.00000000 G
40.0 000	and a state of the	A ala and a second	and setting the solution of the	And the second s			Stop Fr
60.0							20.00000000 G
tart 3,00 Res BW		#VB	W 1.0 MHz		Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Str 1.700000000 G
NUT MUT THE		*	¥ I	POINCTION: FOR	CTRON INTER	FUNCTION VALUE	Auto M
	1	19.269 GHz 3.559 GHz 5.338 GHz	-32.18 dBm -39.38 dBm -36.61 dBm				Freq Offs
4 5	1	0.330 GH2	-36,61 QB/m				0
6							
7 8 9							
10					-		
50					STATUS		

30MHz~3GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5

10 4 63								134	NAME AND ADDRESS OF	(11) (1) (1)	a ment	a a
Frequency	19.47.17 PM Dec 05.2019 TRADE 1 2 3 4 5 6 TRE M WWWW	Log-Pwr	Avg		Free Run	Trig	IZ NO: Fast	0000 GH	.51500	Freq	nter	Cer
Auto Tune	1.711 0 GHz 26.75 dBm	Mkr	_	1	en: 30 dB	#Att	Gain:Low	B dB	Offset 13		B/div	10 d
Center Freq 1.515000000 GHz	_			11			-		_		-	-og 39.0 19.0
Start Freq 30.000000 MHz				+	-		-			_	-	0.00 10.0 20.0
Stop Fred 3.00000000 GHz	4100-94-00-0		when -	4				- the	410 - C. Marine		-	40 0
CF Step 297.000000 MH; Auto Man	Stop 3.000 GHz 0 ms (1001 pts)	weep 2.0			WHz	BW 1.0 P	#VE		AHz	MHz N 1.0 M		
	PLINETION VALUE	TION WIDTH	TION	PUN	75 dBm	26.	0 GHz	1,711		1 1	N	
Freq Offset 0 Hz					_							234567
				_							_	5 6 7 8 9 10 11
1	· ·	STATUS					-					, 1650

3GHz~10GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5

10 4 63		-				134	- Annyat I	O'Burn Libert				
Frequency	08-48-02 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 THE 4 WWWWW	ALIGN AUTO		Trig: Free Ru	Hz		eq 11.500	enter Fr				
Auto Tune	r Colinators #Atten: 30 dB carify NANNA Ref Offset 13.8 dB MKr3 5.136 GHz - 35.36 dBm - 35.36 dBm											
Center Free 11.50000000 GH								30,0				
Start Free 3.000000000 GH2							▲3	0.00 100 200 300				
Stop Free 20.000000000 GH	الي ملجون ال معالي		alarmad d	nius/internet	Niningeres			40 0 50.0 50.0				
CF Ster 1.700000000 GH	Stop 20.000 GHz .33 ms (1001 pts)	Sweep 28	_	1.0 MHz	#VBW			tart 3.000 Res BW				
Auto Mar	PLANETION VALUE	FUNCTION (ADTH)	PUNCT	-31.00 dBm -39.47 dBm	7 GHz 3 GHz 5 GHz	18,997 3.42	1	1 N 1				
Freq Offse 0 Ha				-35.36 dBm	5 GHz	5.13	.1	4 5 6				
								4 5 7 8 9 10				
	- F.	STATUS						45)				

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30MHz~3GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745

against protocol	Angent Tomas Sa		_				10 4 63
Center Freq	1.515000000 GHz	Trig: Free Run		Type: Log-Pwr	TRAD	M Dec 83, 2019	Frequency
	Offset 13.8 dB 30.00 dBm	#Atten: 30 dB		Mi	kr1 1.746	VE Jaran	Auto Tune
20,0			1	_			Center Fre 1.515000000 GH
0.00 10:0 20:0			1	_			Start Fre 30.000000 MH
30.0 40.0 50.0		- Sector V			guneturation	ماعفر	Stop Fre 3.00000000 GH
Start 30 MHz Res BW 1.0 (MHz #VI	BW 1.0 MHz		Sweep 2	Stop 3 2.000 ms (.000 GHz 1001 pts)	CF Ste 297.000000 MH Auto Ma
	1.746 7 GHz	28.23 dBm	PONCTION	FUNCTION WIDTH	FIRETO	IN WALKE	AUTO Ma
2 3 4 5						_	Freq Offse 0 H
5 6 7 8 9 10 11			_				
11				STATU		- × *	

3GHz~10GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745

A grant (process A) approximation of the	194	STANS IN	ADDARG	08/50/01 PM Dec 03, 2019	10.4
Center Freq 11.5000	00000 GHz	Law a start	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast + IFGain:Low	#Atten: 30 dB		DET P NNNN N	
Ref Offset 13	8 dB JBm		N	Akr3 5.235 GHz -37.24 dBm	Auto Tun
20,0					Center Fre
0.00					11.50000000 GF
10.0					StartFre
300 A2 3				01	3.000000000 GH
10.0	and a start of the	a day and in a second	have the second second	and the second	Stop Fre
60.0					20.00000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VBI	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.70000000 GF
	×		NCTION FUNCTION WIDTH	PUNCTION VALUE	Auto Mi
	18,997 GHz 3,490 GHz 5,235 GHz	-31,86 dBm -40,80 dBm -37,24 dBm			Freq Offs
					U)
5 6 7 8 9 9					
10				-	1
90)			STATUS		

30MHz~3GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5

Bigmen (genteum Anny	nt / Trenut Sa				04 63
Center Freq 1.5	PMD East +P	Trig: Pree Run	Avg Type: Log-Pwr	109:51:27 PM Dec 03, 2010 TRADE 1 2 3 4 5 6 TRE MUNICIPAL	Frequency
10 dB/div Ref 3	iFGain:Low fset 13.8 dB 0.00 dBm	#Atten: 30 dB	Mk	r1 1,779 3 GHz 28.53 dBm	Auto Tune
20,0 10.0					Center Freq 1.515000000 GHz
-10:0			1	1010-055	Start Freq 30.000000 MHz
40.0		-	1	nij na in hannelinen se	Stop Free 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MH	z #VBV	/ 1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
N 7 3 4 5 6 7 7 8 9 9	1.779.3 GHz	28,53 dBm			Freq Offse 0 Ha
7 8 9 10 11					
Ausija i			STATUS		-

3GHz~10GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5

			10.4.6
Sec. Sec. Sec.	Avg Type: Log-Pwr	TRACE 1 2 2 4 5 6	Frequency
#Atten: 30 dB	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Auto Tur
	N	1kr3 5.336 GHz -38.93 dBm	Autoru
			Center Fre
	-		11.50000000 GH
			StartFre
		01	3.000000000 GH
an interesting and and	and the second	and the second	
			Stop Fre 20.00000000 GR
W 1.0 MHz	Sweep 2		CF Ste 1.70000000 GH
	NETION FUNCTION MOTH	FUNCTION VALUE	Auto M
-38,14 dBm			Freq Offs
-96.25 GB/II			0)
	STATUS	+	
	W 1.0 MHz	Arg Type: Log-Pur Trig: Pres Run Schen: 30 dB N N N N N N N N N N N N N	Arig Type: Log-Port The Elization Trig: Free Run State: 30 dB Mikr3 5.336 GHz State: 30 dB

30MHz~3GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5

Bigmen The	Course An anyone (Th				-				04 63
Center F	req 1.515	000000 GH	NO: Fast -P	Trig: Free Ru	in	Avg Type: Log-P	WF TI	6 PM Dec 83, 2019 RACE 1 2 3 4 5 6 THE MININA	Frequency
10 dB/div	Ref Offset Ref 30.00	13.8 dB	Gain:Low	#Atten: 30 dt			Mkr1 1.7	11 0 GHz 3.90 dBm	Auto Tune
20,0 10.0					1				Center Fred
0.00		-							Start Free 30.000000 MHz
10.0	Contraction of the				anles	1			Stop Free 3.000000000 GH
Start 30 I	MHz 1.0 MHz	-	#VBV	V 1.0 MHz		Sweet	Stop 2.000 ms	3.000 GHz s (1001 pts)	CF Step 297.000000 MH Auto Mar
1 N 2 3 4		1,711	0 GHz	26.90 dBm	PUNC	TIENT FUNCTION W	DIN DATA	TICIN WALLVE	FreqOffse
5 6 7 8 9									0 Hz
11	1.1				-		TA THE	- x*	

3GHz~10GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5

agant (perce	- An expert 1 Too	- 13a				10 4 23
Center Fre	q 11.500	000000 GHz	Trig: Free Run	Avg Type: Log-Py	W TRACE 1 2 3 4 5 6	Frequency
10 dBJdiv	Ref Offset 1 Ref 30.00	IFGain:Low 3.8 dB	#Atten: 30 dB		Mkr3 5.138 GHz -36.44 dBm	Auto Tune
20,0 10.0						Center Free 11.50000000 GH;
-100 -200 -300 2	3				eneres O [†]	Start Free 3.000000000 GHz
40.0 60.0 60.0	a plan cuo	Here and a second			and a fair of the second of the	Stop Free 20.000000000 GH:
Start 3.000 #Res BW 1		#VE	SW 1.0 MHz	Sweep	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Ster 1.700000000 GH Auto Mar
1 N		19.371 GHz	-31,82 dBm	PUNCTION FUNCTION INT	TH PUNCTION VALUE	CHUY (Mail
2 N 1 3 N 1	1	3.425 GHz 5.138 GHz	-39.74 dBm -36.44 dBm			Freq Offse
4 5 6 7 8 9 10 11						
649				571	TEID	

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30MHz~3GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745

against pastons	- An any part of Themas Sta							10.4.63
Center Free	q 1.5150000	PMT East +1	Trig: Free Ru	Av	g Type: Log-Pwr	TRAD	Dec 03.2019	Frequency
10 dB/div	Ref Offset 13.8 : Ref 30.00 dB		#Atten: 30 dB		M	r1 1.743	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Auto Tuni
20,0 10.0		_		71			_	Center Fre 1.515000000 GH
0.00 10.0 20.0		_			-			Start Fre 30.000000 MP
40 0 40 0 50 0	a po horas de la contra de la							Stop Fre 3.000000000 GH
Start 30 MH Res BW 1.		#VB	N 1.0 MHz		Sweep 2	Stop 3.	.000 GHz 1001 pts)	CF Ste 297.000000 MH
N N	994	1.743 7 GHz	28.19 dBm	PONCTION	FUNCTION WIDTH	PANGLIN	N VALUE	Auto Ma
2 3 4 5								Freq Offse
5 6 7 8 9 10 11								
11	-1		-		STATU		- F.	

3GHz~10GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745

Cigmon (gen	An experience of the second se	154	SERVE IVI	ALIGN MUTC	08-40-21 PM Dec 03, 2019	10 4 11
Center F	reg 11.500	000000 GHz	Law and the	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
-		PNO: Fast + iFGain:Low	#Atten: 30 dB		DET P NNNNN	
10 dB/div	Ref Offset 1 Ref 30.00	3.8 dB dBm			Akr3 5.235 GHz -35.99 dBm	Auto Tun
30,0						Center Fre
0.00						
300 02	3				01	Start Fre 3.000000000 GH
40.0	may the states	and the second sec	in the second		allow Concerned and the state of the	Stop Fre
tart 3,00			1.000		Stop 20.000 GHz	CF Ste
Res BW	1.0 MHz	#VBI	V 1.0 MHz	Sweep 2	8.33 ms (1001 pts)	1.700000000 GH Auto M
1 N 2 N		18.504 GHz 3.490 GHz 5.235 GHz	-32.18 dBm -39.89 dBm -35.99 dBm		PS/ICTOR VALUE	FreqOffs
4 5 6						0)
5 6 7 8 9 10						
11						
50				STATU		

30MHz~3GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5

Bigmen (Bertinsen	Ananyan i Tomas Sa						0 4 63
Center Freq	1.51500000	PMT East +P	Trig: Pree Run	Avg	Type: Log-Pwr	186-43-48 PM Dec 03, 2019 TRACE 1 2 3 4 5 6 Tree M WWWWW	Frequency
10 dB/div R	ef Offset 13.8 dB ef 30.00 dBm	IFGain:Low	#Atten: 30 dB		Mk	1 1.776 4 GHz 28.60 dBm	Auto Tune
20,0 10.0		-		1,-			Center Freq 1.515000000 GHz
-10/0 -20/0 -20/0				-			Start Free 30.000000 MHz
40.0			and a large the could	-diame	with		Stop Fred 3.000000000 GHz
Start 30 MHz #Res BW 1.0	MHz	#VBV	V 1.0 MHz		Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH; Auto Mar
1 N 1 2 3 4 5 6 7 7 8 9 10	1	1.776_4 GHz	28.60 dBm			1	Freq Offset 0 Hz
7 8 9 10 11							
Augo I					STATUS		

3GHz~10GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5

R	Per la constante	An Angent (Tom	154		SERVICE	INI		ALIGH WITC	08-43:554	M Dec 03.2019	10.4
Center	Freq	11.500	000000	SHZ	a second		Avg Typ	e: Log-Pwr	TRAC	# 123456	Frequency
_				Gain:Low	#Atten: 30 d	8				PNNNNN	
10 dB/div		off Set 1: of 30.00						N	Akr3 5.3 -37.	33 GHz 36 dBm	Auto Tur
and and				-			_				Center Fre
too		1	-	-				-		-	11.50000000 G
0.00	_		-	-							
0.0		-	-	-	-	_	_	-	_		Start Fr
20.0		1.00	-	-	+ +	-	_			AT	3.000000000 G
0.0	2		1	-			- Maria	moninde	حلمفت	Q.	
ID D CON	-									-	Stop Fr
50,0											20.000000000 G
1.0		-	-	-							-
Res B			-	#VB	N 1.0 MHz		-	Sweep 2		.000 GHz 1001 pts)	CF Ste 1.70000000 G
NE MODE			×		Ÿ		1041	NUTION INDIA	PLONET	ON WALLIE	Auto M
1 N 2 N	1	-	3.5	46 GHz 55 GHz	-31.71 dBm -40.10 dBm		-	_		_	Freq Offs
3 N 4	1 1	-	5.3	33 GHz	-37.36 dBm	-	-				Frequis
5		-		-		-					
7 8 9											
10											
11	-	1			_	-					
53								STATUS			

30MHz~3GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715

ayner in	Anna Anna	(11) (1-10) (1-10) (54			-					10 4 64
Center F	reg 1.	515000	0000 G	Hz NO: Fast	1.000	e Run	0	Aug Type: Log-Pwr	12:84:45 TR	AMDec 83, 2019	Frequency
		ffset 13.8	ii B dB	Gain:Low	#Atten: 3	O dB	_	м	kr1 1.71	1 0 GHz	Auto Tune
10 dB/div 20.0	Ref 3	30.00 d	Bm	-	1	-	1		20	.72 06m	Center Freq
10.00	_		_	-	-						1.515000000 GH;
20.0					-			-			Start Free 30.000000 MHz
40.0	-	-				in w	-		with bener	- Parties	Stop Free
0.0			-	-					-		3.000000000 GHz
Start 30 Res BM	/ 1.0 MI	łz		#VE	SW 1.0 MHz	_			2.000 ms	3.000 GHz (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N	THE FLEE	-	1,711	0 GHz	26.72 d		UNICTIC	NUMERON WIDTH	PUNC	ION VALUE	
2 3 4 5 6 7 8 9											Freq Offset 0 Ha
7 8 9		_		-		-					
11	1.1.				-			_	-		
6(5)								57AT	10 J		

3GHz~10GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715

10.4 1	12:05:62 AMDec 03, 2019	ALIGH WITC		SERVE	-	And I have a second second	- Δη	diama i
Frequency	TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr		124 4 12	PNO: Fast -	1.50000000	Freq 1	nter
Auto Tun				#Atten: 30 d	IFGain:Low	_		_
	lkr3 5.145 GHz -36.95 dBm	M		~		fiset 13.8 dB 30.00 dBm		Bidiv
Center Fre 11.50000000 GH					_			0 0
Start Fre					-		-	0
Stop Fre	Q ¹		-	-		3	-	
20.00000000 GH		_			_			0
CF Ste 1.70000000 GH Auto Ma	Stop 20.000 GHz 3.33 ms (1001 pts)	Sweep 28		W 1,0 MHz	#VB		00 GH V 1.0 N	
AULO Mia	PUNCTION VALUE	ION FUNCTION WIDTH	PUNI m	-32.55 dBm	9.286 GHz	8 15		N
Freq Offse			m	-38,68 dBm -36,96 dBm	3.430 GHz 5.145 GHz			NN
			_		_			
				-			1.1	
		STATUS						

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30MHz~3GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745

against they	An experience				1			10 4 4
Center Fr	eq 1.5150	000000 GHz	Trig: Pree Run	A	vg Type: Log-Pwr	12:06:38 AM Deci TRACE 1 2 THE MW	2456	Frequency
10 dB/div	Ref Offset	IFGain:Low	#Atten: 30 dB	-	M	r1 1.743 7 0 28.32 d	GHZ	Auto Tun
20,0 10.0				1				Center Fre 1.515000000 GH
0.00							in the	Start Fre 30.000000 Mi
D.D.				يەربىر ۇ ا م			-	Stop Fr 3.00000000 G
tart 30 N Res BW	1.0 MHz		W 1.0 MHz	2040100		Stop 3.000 .000 ms (1001	pts)	CF Str 297.000000 M Auto M
1 N 1		1.743.7 GHz	28.32 dBm					Freq Offs
2 3 4 5 6 7 8 9 9 10 11								
4 140					STATU		· ·	-

3GHz~10GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745

1014	4M Dec 03, 2019		ALIGNINATO					19	Annyati	and these and	-0.45
Frequency	0 123456	TRA	: Log-Pwr	Avg Ty		12000	GHZ	000000	11.500	er Free	Cent
Auto Tun	and Approved	-				#Atten: 3	Gain:Low	1			_
	235 GHz .88 dBm	-36.						3.8 dB dBm	ef Offset 1 tef 30.00	Vdiv F	10 dE
Center Fre			_		-		-	-			.og 30,0
11.50000000 GH	-	-		-	-	-	-		-	-	taa
Start Fre											10.00
3.000000000 GH		-		-	-	-	-			A1	20.0
	universite and	-	and and a second second	and the second	-		man	-	13	Film	40.0
Stop Fre	-		-	1							50,0
20.00000000 81			_	-	-			-			0.0
CF Ste 1,70000000 GF	0.000 GHz (1001 pts)	Stop 20	Swaan 2	-		V 1.0 MHz	#\/B	-		3,000 BW 1.	
Auto M	ENVALUE -		CHONWOIR	104		Y	_	×	1		199
Freq Offs	_			-	Bm	-31.66 d -39.56 d -36.88 d	69 GHz 90 GHz 35 GHz	3.4	[NNN	
0)					Bm	-36,88 di	35 GHZ	5.2		N	4
	-										67
	_			-	_		-		-	++	5 6 7 8 9 10
					_	-	- 1		-1	11	11
			STATUS								60

30MHz~3GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775

against the	One An experience	194 (SA		-			10 4 63
Center F	req 1.5150	PNO: Fast	Trig: Free		Aug Type: Log-Pwr	12:08:12 4MDec 03, 2019 TRADE 1 2 3 4 5 6 TREE M WWWW	Frequency
10 dB/div	Ref Offset 13 Ref 30.00	IFGain:Lov	#Atten: 30	dB	Mk	r1 1.773 4 GHz 28.80 dBm	Auto Tune
20,0 10.0				11			Center Freq 1.515000000 GHz
-10.0 -10.0 -20.0				-		1010-101	Start Freq 30.000000 MHz
10.0	ويتطهير ويورد	·		ment		and the second s	Stop Freq 3.00000000 GHz
Start 30 M #Res BW	1.0 MHz	#V	BW 1.0 MHz	Parties		Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4		1.773 4 GHz	28,80 dB				Freq Offset 0 Hz
5 6 7 8 9 10 11							
AUSIC					STATUS		

3GHz~10GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775

Agener (gen	An any other thanks	134				10.4
enter Fr	req 11.500	000000 GHz	Trig: Pree Run	Avg Type: Log-Pwr	12:08:25 AMDec 03, 2019 TRADE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
10 dB/div	Ref Offset 1: Ref 30.00	IFGain:Low	#Atten: 30 dB	M	Akr3 5.325 GHz -38.44 dBm	Auto Tur
20,0 10.0						Center Fr 11.50000000 G
0.00	•3				-1010-004	Start Fr 3.000000000 G
	norma in		al a secol de la competencia de la comp	را مساور المراجع المراجع المراجع		Stop Fr 20.00000000 G
tart 3,00 Res BW		#VB	W 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF St 1.70000000 0
1 N 2 N 4 5		3 14,883 GHz 3,550 GHz 5,325 GHz	-31,65 dBm -38,95 dBm -38,44 dBm	PONETION PURCTON MOTO	PLANCTION WALKE	Auto M Freq Offs 0
6 7 8 9 10						
\$0)				STATU	i Fil	

30MHz~3GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5

10 4 4							4.54	nyan i Teen	- An	Bank II	a a
Frequency	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 TRE P NNNNN	Log-Pwr	Avg		Trig: Free Ru	O: Fast	0000 GH	.51500	req 1	ter	Cer
Auto Tun	714 0 GHz 26.79 dBm	Mkr			#Atten: 30 dB	Jain:Low	8 dB	Offset 13. 30.00 d		BJdiv	10 d
Center Free 1.515000000 GH	-		-							-	.og 39.0 19.0
Start Free 30.000000 MH	-1010-60		-		_				-		0.00
Stop Free 3.000000000 GH	a the second			4		(and the second	H	- Andrews	-	-	30.0 40.0 50.0
CF Step 297.000000 MH Auto Ma	op 3.000 GHz ns (1001 pts)	weep 2.0		_	1.0 MHz	#VBW		IHz	MHz 1.0 M	s BV	sta
Freq Offse 0 H					26.79 dBm	0.GHz	1.714			N	12345678910
1				_							7 8 9 10 11
		STATHE								_	6(5)

3GHz~10GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5

10.4						An anyone i Tomat	agnes (per
Frequency	11 (57 33 PM Dec 02, 2019 TRACE 1 2 3 4 5 6 Trace At 1 2 3 4 5 6	ALIGN MUTO Avg Type: Log-Pwr	e Run	Trig: Free	0000 GHz	q 11.50000	Center Fr
Auto Tun	1kr3 5.153 GHz -34.06 dBm	M	0 dB	#Atten: 30	IFGain:Low	Ref Offset 13.8 Ref 30.00 de	10 dB/div
Center Free 11.50000000 GH							20.0 10.0
Start Fre 3.000000000 GH						▲3	0.00 -10'0 -20'0 -20'0
Stop Fre 20.000000000 GH	an our my date of the t	~~~	Winner -		a second s	when	40.0 50.0 60.0
CF Ster 1.700000000 GH Auto Ma	Stop 20.000 GHz 8.33 ms (1001 pts)	Sweep 28	-	W 1.0 MHz	#VB		Start 3.00 Res BW
Freq Offse	PLANETON VALUE		3m 3m	-30,95 dB -38,56 dB -34,06 dB	5 19.184 GHz 3.435 GHz 5.153 GHz	f f f	1 N 1 2 N 1 3 N 1 4 5
							4 5 7 8 9 10 11
	+	STATUS					1965

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30MHz~3GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745

against gentrame Anaryse i Ton	1.54					10.4
Center Freq 1.5150	PMO East +P	Trig: Free Run		Type: Log-Pwr	11 (59:28 PM Dec 02: 2015 TRACE 1 2 3 4 5 6 THE ALCONNY	Frequency
Ref Offset 1 10 dB/div Ref 30.00		#Atten: 30 dB		Mk	r1 1.740 7 GHz 28.52 dBm	Auto Tuni
20,0 10.0			11			Center Free 1.515000000 GH
0.00					-100-055	Start Fre 30.000000 MH
30.0 40.0 50.0			14.00			Stop Fre 3.00000000 GH
Start 30 MHz Res BW 1.0 MHz	1	V 1.0 MHz		-	Stop 3.000 GHz 000 ms (1001 pts)	CF Ste 297.000000 MH Auto Mi
N 1 7 2 3 4	1.740.7 GHz	28.52 dBm	PENENDA			Freq Offse
5 6 7 8 9 9 10 11						
• 862)				STATUS		

3GHz~10GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745

agmen iper	An anyone i Ter	an 134				0.4 63
Center Fr	req 11.500	000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	11/59/41 PM Dec 02, 2019 TRACE 1 2 3 4 5 6 TIME 2 3 4 5 6	Frequency
-		IFGain:Low	#Atten: 30 dB			Auto Tune
10 dB/div	Ref Offset 1 Ref 30.00		~ ~ ~		4 Mkr3 5.235 GHz -36.49 dBm	
20,0						Center Freq
10.0	1					11.50000000 GHz
-10.0	1	_	_			Start Fred
-300 -32	A3				0 ¹	3.00000000 GHz
40.0	man	to provide the state of the sta	- martin and the marting	un in the second	and the state of t	Stop Freq
60,0						20.00000000 GHz
Start 3.00	0 GHz				Stop 20.000 GHz	CF Step
#Res BW		#VB	N 1.0 MHz		8.33 ms (1001 pts)	1.70000000 GHz Auto Man
1 N 2 N		19,184 GHz 3,490 GHz	-32.48 dBm -39.45 dBm	PUNCTION FUNCTION WOTH	PLANET DIR VALUE	
3 N 1	1	5.235 GHz	-36.49 dBm			Freq Offset
5					1	
5 6 7 8 9 10						
10	11				· · · · ·	1.
NESS)				STATU		

30MHz~3GHz Band66 15MHz QPSK 1 0 HighCH132597-1772.5

against (gentrame dat styles) Toronte Sa					04 63
Center Freq 1.5150000	PNO: Fast ++++	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	12:01:41 4MDac 03, 2019 TRADE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
Ref Offset 13.8 dl 10 dB/div Ref 30.00 dBn	iFGain:Low B	#Atten: 30 dB	Mk	1 1.767 5 GHz 28.26 dBm	Auto Tune
20.0 10.0	_				Center Free 1.515000000 GH
0.00 -100 -200				1000.00	Start Free 30.000000 MH
50.0 60.0 60.0			Langer and series		Stop Free 3.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW		Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MH Auto Mar
2 N 1 F 2 3 4	1.767 5 GHz	28.26 dBm			Freq Offse D H
5 6 7 8 9 10 11					
lesjo)			STATUS		

3GHz~10GHz_Band66_15MHz_QPSK_1_0_HighCH132597-1772.5

Gigmen Thestown	Ananyan I Tomas Sa		1 SERVE I		ALIGN WITC		MDec 83, 2019	10.4
enter Freq	11.500000000	SHZ	20000000	Avg Typ	e: Log-Pwr	TRAC	123456	Frequency
	u u	Gain:Low	#Atten: 30 dB				PNNNN	Auto Tur
	offset 13.8 dB of 30.00 dBm			-	n,	Akr3 5.3 -35.7	18 GHZ 74 dBm	
20,0				_				Center Fre
0.0							-	11.50000000 G
00								Start Fre
00		-			-		1	3.000000000 G
00 02	3	ومناريس	March Marine Contraction	- Initial Manual	-		Lon	
200							-	Stop Fr
0.0			-	_	-			20.00000000 G
tart 3,000 G Res BW 1.0		#VBW	1.0 MHz		Sweep 2		000 GHz 1001 pts)	CF Ste 1.70000000 G
		B9 GHz	-31.95 dBm	PONCTION: 110	NUTION WIDTH	PUNCTIC	N WALLIE	Auto M
2 N 1 1 4 5	3.5	45 GHz 18 GHz	-38.75 dBm -35.74 dBm					Freq Offs
6 7		-						1
9							_	
10								
50					STATU	1		

30MHz~3GHz_Band66_20MHz_QPSK_1_0_LowCH132072-1720

Against Spectrum Analysis (Trends Sa					10 4 63
Center Freq 1.515000000 GHz	Fast Trig: Pree Run	A	vg Type: Log-Pwr	11:47:34 PM Dec 02: 2019 TRACE 1 2 3 4 5 6 THE MUNICIPAL	Frequency
IFGa Ref Offset 13.8 dB	n:Low #Atten: 30 dB	-	Mk	r1 1.714 0 GHz 26.81 dBm	
10 dB/div Ref 30.00 dBm		11	-	20.01 0.511	Center Freq
10.0			_		1.515000000 GH;
20.0			_		Start Free 30.000000 MHz
40 0 40 0 50 0		11-			Stop Free 3.00000000 GHz
tart 30 MHz Res BW 1.0 MHz	#VBW 1.0 MHz		Sweep 2	Stop 3.000 GHz 000 ms (1001 pts)	CF Step
		PUNCTION		PARTICINARIE -	Auto Man
	20,01 0010				Freq Offset 0 Hz
2 3 4 5 5 7 7 8 9 9					
11 , uss			STATUS	· · · ·	

3GHz~10GHz Band66 20MHz QPSK 1 0 LowCH132072-1720

10 4 23						Antiquet Tomas Sa	agnes (per
Frequency	47.58 PH Dec 82, 2019 TRACE 1 2 3 4 5 6	e: Log-Pwr	Ava	Trig: Free Run	00 GHz	eq 11.500000	Center Fr
Auto Tune	3 5.160 GHz -37.56 dBm	м		#Atten: 30 dB	PNO: Fast ++ IFGain:Low	Ref Offset 13.8 dl	
Center Freq	-37.56 dBm					Ref 30.00 dBn	10 dB/div Log
11.50000000 GHz			_		-		10.0
StartFree	10.00.000				_		-100
3.00000000 GHz	and a	and and a state of the	-	ويفاط والاستروم		A3	.00 73
Stop Fred 20.00000000 GHz							40.0 2025
CF Step 1.700000000 GH	op 20.000 GHz ms (1001 pts)	Sweep 28	_	1.0 MHz	#VBW		Start 3.00 #Res BW
Auto Mar	FUNCTION VALUE	NCTION WIDTH	PUNCTION	Y			MADE MILITE
Freq Offse 0 Hz				-31,44 dBm -38,85 dBm -37,56 dBm	19,218 GHz 3,440 GHz 5,160 GHz	1	1 N 1 2 N 1 4 5
							4 5 6 7 8 9 10
		-					10
		STATUS					1455

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f (886-2) 2298-0488



Report No.: E2/2019/B0012 Page 124 of 232

30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745

all and they are	- An experience	134								10 4 4
Center Fred	q 1.51500		Z VO: Fast ++	Trig: Free F	Run	Avg Ty	ALIGN WITO pe: Log-Pwr	TRAD	M Dec 82 2019	Frequency
10 dB/div R	Ref Offset 13.	IFC 8 dB	Sain:Low	#Atten: 30	dB	_	M	r1 1.73	7 8 GHz 93 dBm	Auto True
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0.00 10.0 20.0							-			Start Fre 30.000000 MH
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Start 30 MH	0 MHz		#VBV	N 1.0 MHz		_		.000 ms (CF Ste 297.000000 Mi Auto Mi
2 3 4	ſ	1.737	8 GHz	27.93 dBr				DENHO	-	Freq Offs
5 6 7 8 9 10 11										
4 160							STATU		- +	

3GHz~10GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745

R Solution Conter Freq 11.500	000000 GHz	Trig: Free Run	Aug Type: Log-Pwr	11 (52:15 PM Dec 82: 2019 TRACE 1 2 3 4 5 6 TITLE M WWWWW	Frequency
Ref Offset 1	IFGain:Low	#Atten: 30 dB	N	1kr3 5.235 GHz	Auto Tun
10 dB/div Ref 30.00				-36.85 dBm	
33.0					Center Fre
0.00 10 ⁻⁰					StartFre
300 (2 3 3			وجوجه فالمحمد والمراجع	Q1	3.000000000 GH
	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		and the second se		Stop Fre 20.00000000 GP
itart 3.000 GHz Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.700000000 GR
	18.810 GHz	-31.97 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mi
	3.490 GHz 5.235 GHz	-39.32 dBm -36.85 dBm			Freq Offs
5 6 7 8 9 10					
9 10 11		_			
ş5)			STATUS		

30MHz~3GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770

Ball - Bagmann Theor	One Annyat I Trees	194				0 4 23
Center F	req 1.51500	PMD East +	Trig: Free Run	Aug Type: Log-Pwr	11 (53:55 PM Dec 02, 2019 TRACE 1 2 3 4 5 6 THE M WWWW	Frequency
10 dB/div	Ref Offset 13. Ref 30.00 c	IFGain:Low 8 dB IBm	#Atten: 30 dB	Mk	r1 1.761 5 GHz 27.70 dBm	Auto Tune
20,0 10.0	_			1		Center Freq 1.515000000 GHz
0.00 -10.0 -20.0					1010-101	Start Freq 30.000000 MHz
40 0 0 0000000000000000000000000000000				1	- and the advect for ma	Stop Freq 3.00000000 GHz
Start 30 P #Res BW	1.0 MHz	#VB	W 1.0 MHz	Sweep 2.	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 3 4 5 6 7 8 9 9		1.761 5 GHz	27.70 dBm			Freq Offset 0 Hz
9 10 11 , Miss				STATUB		1

3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770

R	- Annorati 1	000 001-	sérise II		ALIGN AUTO	11 (54:08 PM Dec 02: 201 TRACE 1 2 3 4 5	Frequency
Senter Fre	q 11.500000	PNO: Fast = IFGain:Low	Trig: Free Run #Atten: 30 dB	Kvg typ	. Log-r-wr	THE MWWWW	
Ref Offiset 13.8 dB Mkr3 5.310 GHz 10 dB/div Ref 30.00 dBm -38.99 dBm					Auto Tun		
-og 20,0 10.0				_			Center Fre
0.00							Start Fre 3.000000000 GH
30.0 40.0 50.0		alimin think and	her south		- Then - I - I	appending to the	Stop Fre 20.00000000 GH
Start 3.000 Res BW 1.		#VB	N 1.0 MHz		Sweep 2	Stop 20.000 GHz 3.33 ms (1001 pts)	1.700000000 Gi
		19,133 GHz	-31,47 dBm	PONCTION 100	ACTION INDTH	PUNCTION VALUE	Auto Mi
2 N L 3 N L 4 5	1	3.540 GHz 5.310 GHz	-39 00 dBm -38.99 dBm				Freq Offs 0)
6 7 8 9							
11	1						

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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 **Standard Applicable**

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

FCC §27.53 (f) for LTE B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(h)(3) for LTE B4, 66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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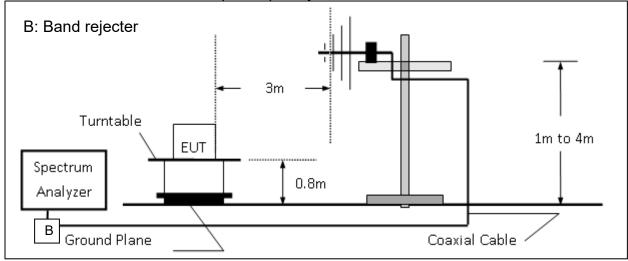
Table 2 — Unwanted Emissions for Mobile, I	Portable and Low-Power Fixed Subscriber
Equipment	

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{Note}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{Note}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

9.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency Below 1000MHz

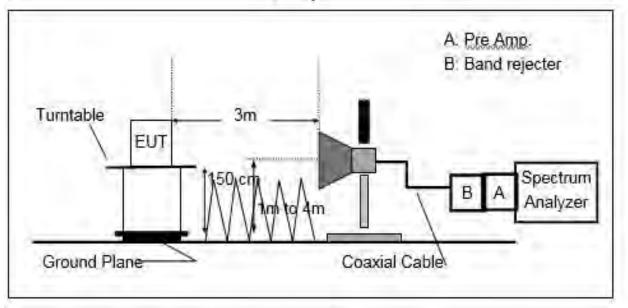


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9.3 **Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4 **Measurement Equipment Used:**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	06/10/2019	06/09/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Highpass Filter	Micro Tronics	BRM50701-01	G008	11/20/2019	11/19/2020
High Pass Filter	Micro-Tronics	G003	RF99	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020
Lowpass Filter	Woken	EWT-56-0019	RF46	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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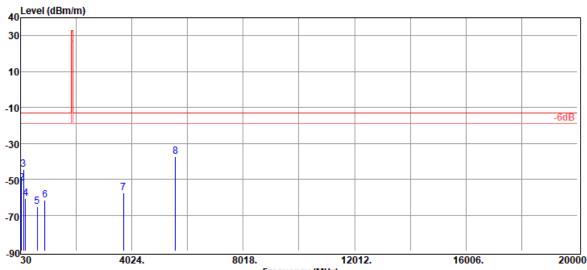
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9.5 **Measurement Result: Internal PIFA Antenna**

Radiated Spurious Emission Measurement Result: LTE Band 2 Mode

Report Number	:E2/2019/B0012	Test Date	:2019-12-30
Operation Mode	:LTE B2	Temp./Humi.	:22.6/64
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kailin
Test Channel	:1860 MHz		



Frequency (MHz)

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-54.69	-40.36	-13.59	-0.74	-13.00	-41.69
68.80	-52.24	-43.95	-7.41	-0.88	-13.00	-39.24
138.64	-44.75	-36.81	-6.40	-1.54	-13.00	-31.75
212.36	-60.71	-58.83	-0.01	-1.87	-13.00	-47.71
624.61	-65.44	-62.50	-0.22	-2.72	-13.00	-52.44
907.85	-61.67	-60.10	1.52	-3.09	-13.00	-48.67
3720.00	-57.80	-63.89	12.14	-6.05	-13.00	-44.80
5580.00	-37.30	-43.68	13.30	-6.92	-13.00	-24.30

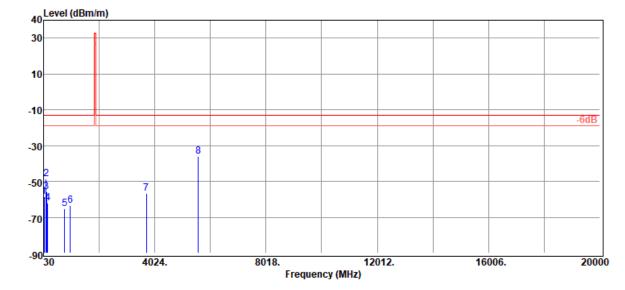
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-58.56	-39.49	-18.33	-0.74	-13.00	-45.56
121.18	-48.73	-39.57	-7.80	-1.36	-13.00	-35.73
138.64	-55.99	-48.05	-6.40	-1.54	-13.00	-42.99
184.23	-62.07	-59.58	-0.81	-1.68	-13.00	-49.07
788.54	-65.42	-63.23	0.87	-3.06	-13.00	-52.42
990.30	-63.52	-61.68	1.49	-3.33	-13.00	-50.52
3720.00	-56.59	-62.68	12.14	-6.05	-13.00	-43.59
5580.00	-36.08	-42.46	13.30	-6.92	-13.00	-23.08

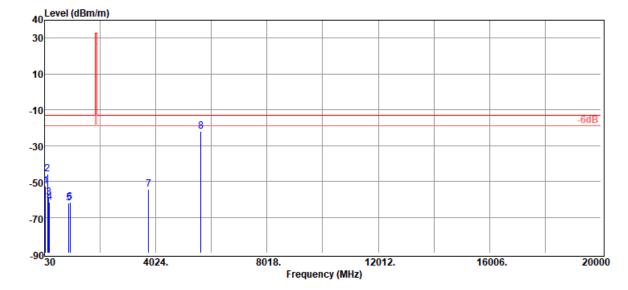
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Report Number	:E2/2019/B0012		
Operation Mode	:LTE B2		
Test Mode	:TX CH MID		
EUT Pol	:E2 Plan		
Test Channel	:1880 MHz		

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
68.80	-52.61	-44.32	-7.41	-0.88	-13.00	-39.61
139.61	-45.88	-38.06	-6.28	-1.54	-13.00	-32.88
183.26	-58.74	-56.20	-0.88	-1.66	-13.00	-45.74
211.39	-61.55	-59.56	-0.13	-1.86	-13.00	-48.55
905.91	-61.89	-60.31	1.50	-3.08	-13.00	-48.89
949.56	-61.51	-60.19	1.90	-3.22	-13.00	-48.51
3760.00	-54.26	-60.13	12.20	-6.33	-13.00	-41.26
5640.00	-22.27	-28.56	13.46	-7.17	-13.00	-9.27

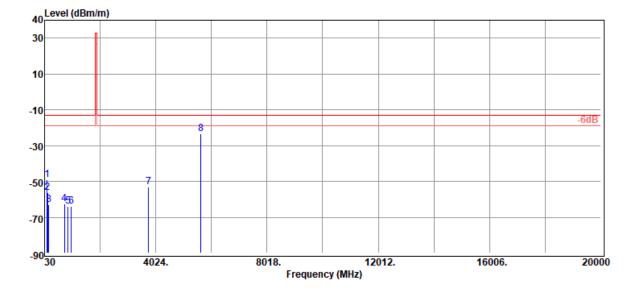
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1880 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

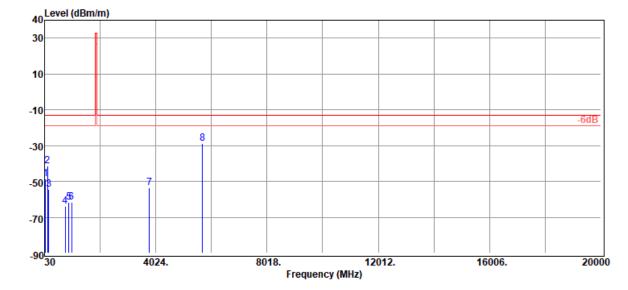


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
121.18	-49.21	-40.05	-7.80	-1.36	-13.00	-36.21
138.64	-56.24	-48.30	-6.40	-1.54	-13.00	-43.24
183.26	-62.83	-60.29	-0.88	-1.66	-13.00	-49.83
745.86	-62.60	-60.62	0.63	-2.61	-13.00	-49.60
869.05	-63.79	-61.82	1.34	-3.31	-13.00	-50.79
997.09	-63.77	-62.04	1.69	-3.42	-13.00	-50.77
3760.00	-53.24	-59.11	12.20	-6.33	-13.00	-40.24
5640.00	-23.20	-29.49	13.46	-7.17	-13.00	-10.20



:E2/2019/B0012
:LTE B2
:TX CH HIGH
:E2 Plan
:1900 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

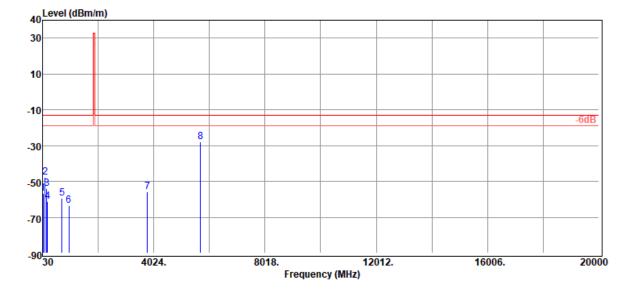


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
69.77	-48.42	-40.20	-7.34	-0.88	-13.00	-35.42
136.70	-41.35	-33.15	-6.66	-1.54	-13.00	-28.35
183.26	-54.61	-52.07	-0.88	-1.66	-13.00	-41.61
779.81	-64.02	-61.67	0.70	-3.05	-13.00	-51.02
904.94	-61.84	-60.26	1.49	-3.07	-13.00	-48.84
1000.00	-61.57	-59.77	1.66	-3.46	-13.00	-48.57
3800.00	-53.72	-59.32	12.20	-6.60	-13.00	-40.72
5700.00	-28.69	-34.49	13.30	-7.50	-13.00	-15.69



:E2/2019/B0012
:LTE B2
:TX CH HIGH
:E2 Plan
:1900 MHz

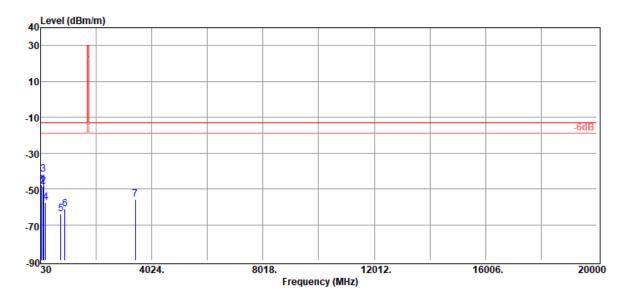
Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.40		20.40	16.60	0.74	12.00	40.50
46.49	-56.53	-39.19	-16.60	-0.74	-13.00	-43.53
122.15	-47.59	-38.31	-7.90	-1.38	-13.00	-34.59
183.26	-54.07	-51.53	-0.88	-1.66	-13.00	-41.07
216.24	-61.01	-59.41	0.31	-1.91	-13.00	-48.01
730.34	-59.53	-57.53	0.73	-2.73	-13.00	-46.53
980.60	-63.56	-61.72	1.49	-3.33	-13.00	-50.56
3800.00	-55.85	-61.45	12.20	-6.60	-13.00	-42.85
5700.00	-27.74	-33.54	13.30	-7.50	-13.00	-14.74

Radiated Spurious Emission Measurement Result: LTE Band 4 Mode

Report Number	:E2/2019/B0012	Test Date	:2019-12-31
Operation Mode	:LTE B4	Temp./Humi.	:23.4/54
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kailin
Test Channel	:1717.5 MHz		



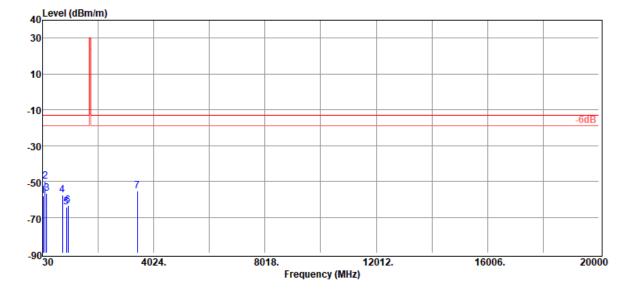
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-47.79	-39.51	-7.39	-0.89	-13.00	-34.79
117.30	-48.43	-39.14	-7.96	-1.33	-13.00	-35.43
136.70	-41.72	-33.52	-6.66	-1.54	-13.00	-28.72
209.45	-57.76	-55.60	-0.32	-1.84	-13.00	-44.76
757.50	-63.78	-61.86	0.75	-2.67	-13.00	-50.78
903.00	-61.30	-59.72	1.47	-3.05	-13.00	-48.30
3435.00	-55.82	-63.10	12.50	-5.22	-13.00	-42.82

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1717.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

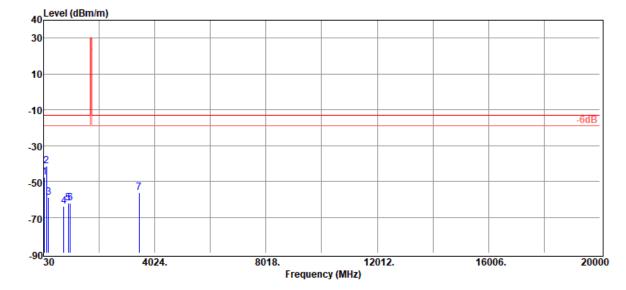


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-57.87	-38.80	-18.33	-0.74	-13.00	-44.87
122.15	-49.87	-40.59	-7.90	-1.38	-13.00	-36.87
185.20	-56.67	-54.29	-0.69	-1.69	-13.00	-43.67
745.86	-57.75	-55.77	0.63	-2.61	-13.00	-44.75
893.30	-64.37	-62.72	1.38	-3.03	-13.00	-51.37
954.41	-63.30	-61.57	1.69	-3.42	-13.00	-50.30
3435.00	-55.19	-62.47	12.50	-5.22	-13.00	-42.19



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:VERTICAL
Engineer	:Kailin

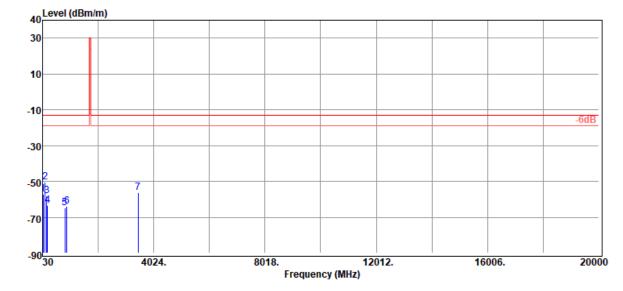


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-47.57	-39.29	-7.39	-0.89	-13.00	-34.57
133.79	-41.64	-33.09	-7.01	-1.54	-13.00	-28.64
212.36	-58.74	-56.86	-0.01	-1.87	-13.00	-45.74
755.56	-63.85	-61.93	0.73	-2.65	-13.00	-50.85
915.61	-62.24	-60.62	1.60	-3.22	-13.00	-49.24
997.09	-62.06	-60.33	1.69	-3.42	-13.00	-49.06
3465.00	-56.18	-63.32	12.44	-5.30	-13.00	-43.18



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

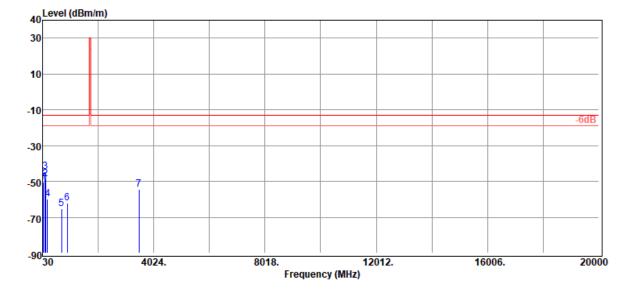


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-57.31	-40.97	-15.60	-0.74	-13.00	-44.31
120.21	-50.56	-41.31	-7.92	-1.33	-13.00	-37.56
183.26	-58.07	-55.53	-0.88	-1.66	-13.00	-45.07
214.30	-63.38	-61.71	0.22	-1.89	-13.00	-50.38
835.10	-64.67	-62.90	1.19	-2.96	-13.00	-51.67
909.79	-63.86	-62.29	1.54	-3.11	-13.00	-50.86
3465.00	-56.47	-63.61	12.44	-5.30	-13.00	-43.47



:E2/2019/B0012
:LTE B4
:TX CH HIGH
:E2 Plan
:1747.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:VERTICAL
Engineer	:Kailin

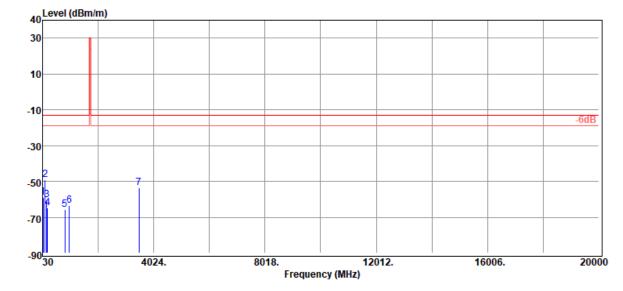


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	/_					
70.74	-50.40	-42.12	-7.39	-0.89	-13.00	-37.40
121.18	-48.77	-39.61	-7.80	-1.36	-13.00	-35.77
138.64	-44.53	-36.59	-6.40	-1.54	-13.00	-31.53
211.39	-59.88	-57.89	-0.13	-1.86	-13.00	-46.88
710.94	-65.19	-63.75	0.88	-2.32	-13.00	-52.19
920.46	-62.05	-60.38	1.64	-3.31	-13.00	-49.05
3495.00	-54.66	-61.60	12.32	-5.38	-13.00	-41.66



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1747.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



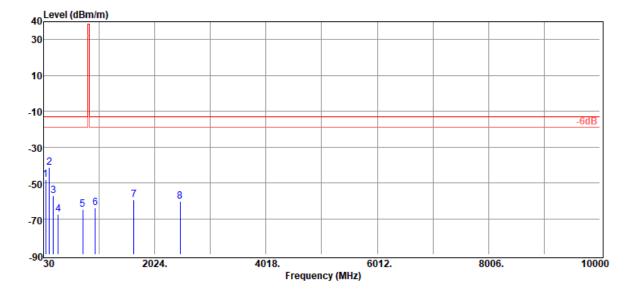
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-58.99	-39.92	-18.33	-0.74	-13.00	-45,99
121.18	-49.03	-39.92 -39.87	-7.80	-0.74 -1.36	-13.00	-45.99
183.26	-60.13	-57.59	-0.88	-1.66	-13.00	-47.13
211.39	-64.60	-62.61	-0.13	-1.86	-13.00	-51.60
828.31	-65.63	-63.93	1.26	-2.96	-13.00	-52.63
997.09	-63.50	-61.77	1.69	-3.42	-13.00	-50.50
3495.00	-53.39	-60.33	12.32	-5.38	-13.00	-40.39



Radiated Spurious Emission Measurement Result: LTE Band 5 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:825.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin



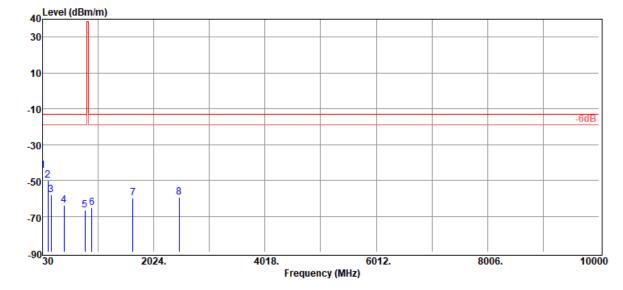
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-47.97	-39.69	-7.39	-0.89	-13.00	-34.97
134.76	-41.54	-33.05	-6.95	-1.54	-13.00	-28.54
204.60	-57.23	-54.89	-0.50	-1.84	-13.00	-44.23
294.81	-67.39	-64.18	-0.94	-2.27	-13.00	-54.39
733.25	-64.73	-62.74	0.70	-2.69	-13.00	-51.73
956.35	-63.96	-62.10	1.65	-3.51	-13.00	-50.96
1651.00	-59.43	-65.37	9.40	-3.46	-13.00	-46.43
2476.50	-60.40	-67.04	10.56	-3.92	-13.00	-47.40

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:825.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

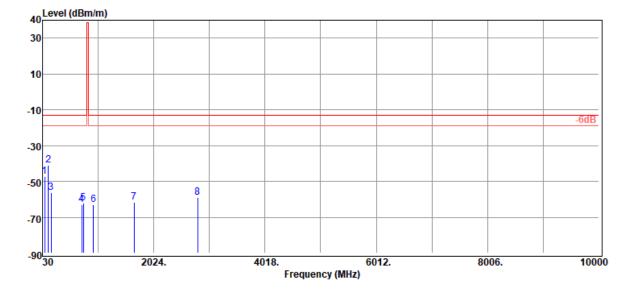


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-44.67	-14.85	-29.28	-0.54	-13.00	-31.67
124.09	-49.87	-40.69	-7.76	-1.42	-13.00	-36.87
183.26	-58.02	-55.48	-0.88	-1.66	-13.00	-45.02
413.15	-63.86	-59.77	-1.14	-2.95	-13.00	-50.86
788.54	-66.80	-64.61	0.87	-3.06	-13.00	-53.80
910.76	-65.18	-63.60	1.55	-3.13	-13.00	-52.18
1651.00	-59.80	-65.74	9.40	-3.46	-13.00	-46.80
2476.50	-59.55	-66.19	10.56	-3.92	-13.00	-46.55



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:VERTICAL
Engineer	:Kailin

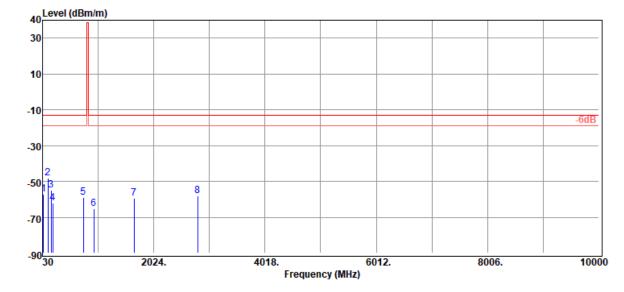


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-47.17	-38.89	-7.39	-0.89	-13.00	-34.17
134.76	-40.98	-32.49	-6.95	-1.54	-13.00	-27.98
188.11	-56.16	-53.88	-0.55	-1.73	-13.00	-43.16
733.25	-62.96	-60.97	0.70	-2.69	-13.00	-49.96
765.26	-62.18	-60.32	0.83	-2.69	-13.00	-49.18
943.74	-63.16	-61.75	1.81	-3.22	-13.00	-50.16
1673.00	-61.66	-67.66	9.49	-3.49	-13.00	-48.66
2809.50	-58.75	-65.26	10.90	-4.39	-13.00	-45.75



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

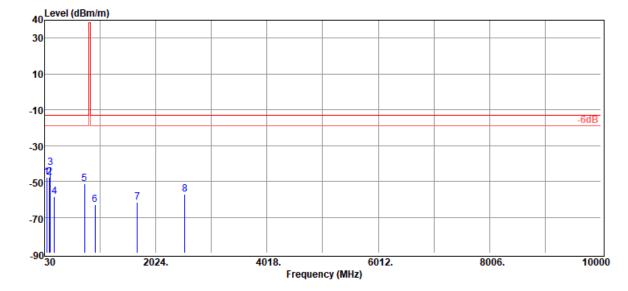


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-57.10	-40.76	-15.60	-0.74	-13.00	-44.10
124.09	-48.21	-39.03	-7.76	-1.42	-13.00	-35.21
185.20	-55.11	-52.73	-0.69	-1.69	-13.00	-42.11
216.24	-62.24	-60.64	0.31	-1.91	-13.00	-49.24
765.26	-59.12	-57.26	0.83	-2.69	-13.00	-46.12
946.65	-65.48	-64.08	1.82	-3.22	-13.00	-52.48
1673.00	-59.21	-65.21	9.49	-3.49	-13.00	-46.21
2809.50	-58.21	-64.72	10.90	-4.39	-13.00	-45.21



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:847.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:VERTICAL
Engineer	:Kailin

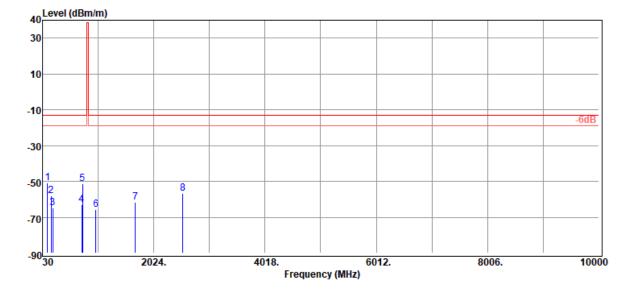


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-47.79	-39.51	-7.39	-0.89	-13.00	-34.79
117.30	-47.86	-38.57	-7.96	-1.33	-13.00	-34.86
133.79	-42.53	-33.98	-7.01	-1.54	-13.00	-29.53
207.51	-58.68	-56.44	-0.40	-1.84	-13.00	-45.68
744.89	-51.45	-49.44	0.60	-2.61	-13.00	-38.45
938.89	-63.23	-61.89	1.89	-3.23	-13.00	-50.23
1695.00	-61.66	-67.72	9.58	-3.52	-13.00	-48.66
2542.50	-57.08	-64.27	10.95	-3.76	-13.00	-44.08



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:847.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.4/54
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

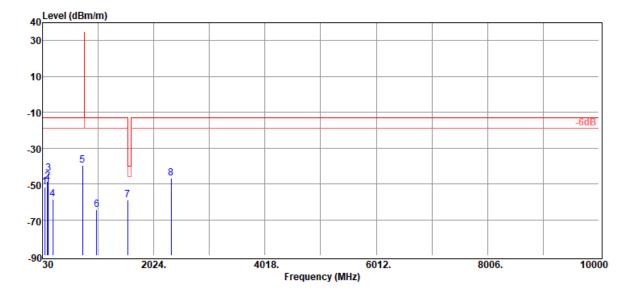


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
122.15	-51.07	-41.79	-7.90	-1.38	-13.00	-38.07
185.20	-57.86	-55.48	-0.69	-1.69	-13.00	-44.86
217.21	-64.61	-63.00	0.31	-1.92	-13.00	-51.61
730.34	-63.01	-61.01	0.73	-2.73	-13.00	-50.01
745.86	-51.28	-49.30	0.63	-2.61	-13.00	-38.28
984.48	-65.91	-64.10	1.52	-3.33	-13.00	-52.91
1695.00	-61.67	-67.73	9.58	-3.52	-13.00	-48.67
2542.50	-56.72	-63.91	10.95	-3.76	-13.00	-43.72

Radiated Spurious Emission Measurement Result: LTE Band 13 Mode

:E2/2019/B0012
:LTE B13
:TX CH LOW
:E2 Plan
:779.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin



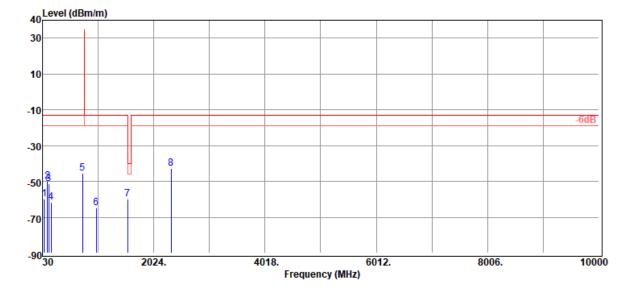
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
69.77	-51.75	-43.53	-7.34	-0.88	-13.00	-38.75
119.24	-48.83	-39.49	-8.01	-1.33	-13.00	-35.83
133.79	-43.93	-35.38	-7.01	-1.54	-13.00	-30.93
217.21	-58.44	-56.83	0.31	-1.92	-13.00	-45.44
747.80	-39.77	-37.85	0.69	-2.61	-13.00	-26.77
997.09	-64.17	-62.44	1.69	-3.42	-13.00	-51.17
1559.00	-58.77	-63.77	8.79	-3.79	-40.00	-18.77
2338.50	-46.85	-51.93	9.61	-4.53	-13.00	-33.85

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

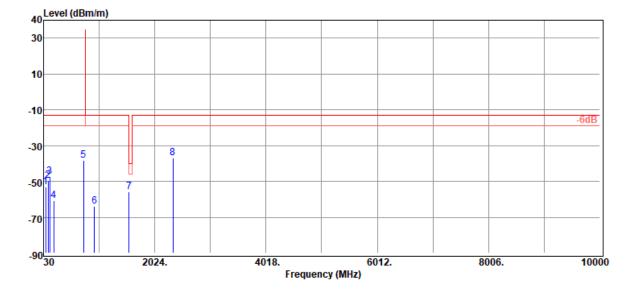


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.98	-59.66	-51.73	-7.05	-0.88	-13.00	-46.66
120.21	-49.81	-40.56	-7.92	-1.33	-13.00	-36.81
143.49	-51.54	-44.19	-5.80	-1.55	-13.00	-38.54
185.20	-61.58	-59.20	-0.69	-1.69	-13.00	-48.58
747.80	-45.29	-43.37	0.69	-2.61	-13.00	-32.29
992.24	-64.66	-62.88	1.58	-3.36	-13.00	-51.66
1559.00	-59.84	-64.84	8.79	-3.79	-40.00	-19.84
2338.50	-42.58	-47.66	9.61	-4.53	-13.00	-29.58



:E2/2019/B0012
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin

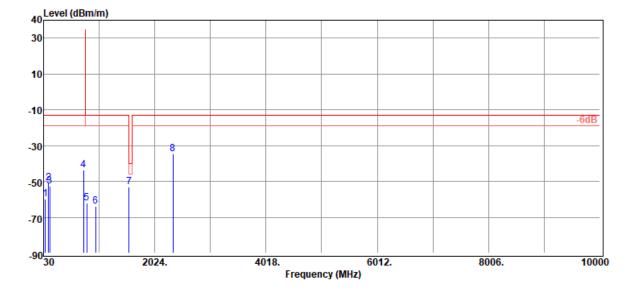


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
69.77	-53.16	-44.94	-7.34	-0.88	-13.00	-40.16
112.45	-49.47	-40.32	-7.82	-1.33	-13.00	-36.47
139.61	-47.05	-39.23	-6.28	-1.54	-13.00	-34.05
211.39	-60.73	-58.74	-0.13	-1.86	-13.00	-47.73
749.74	-38.08	-36.22	0.75	-2.61	-13.00	-25.08
943.74	-64.01	-62.60	1.81	-3.22	-13.00	-51.01
1564.00	-55.89	-60.99	8.84	-3.74	-40.00	-15.89
2346.00	-36.89	-42.02	9.67	-4.54	-13.00	-23.89



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

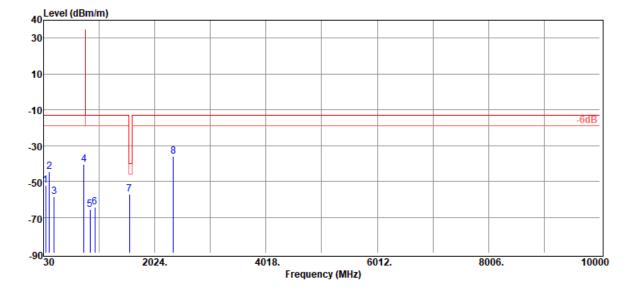


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.95	-59.99	-51.80	-7.31	-0.88	-13.00	-46.99
122.15	-50.92	-41.64	-7.90	-1.38	-13.00	-37.92
141.55	-52.50	-44.89	-6.07	-1.54	-13.00	-39.50
749.74	-43.50	-41.64	0.75	-2.61	-13.00	-30.50
808.91	-62.11	-60.59	1.12	-2.64	-13.00	-49.11
961.20	-64.13	-62.10	1.64	-3.67	-13.00	-51.13
1564.00	-53.13	-58.23	8.84	-3.74	-40.00	-13.13
2346.00	-34.79	-39.92	9.67	-4.54	-13.00	-21.79



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin

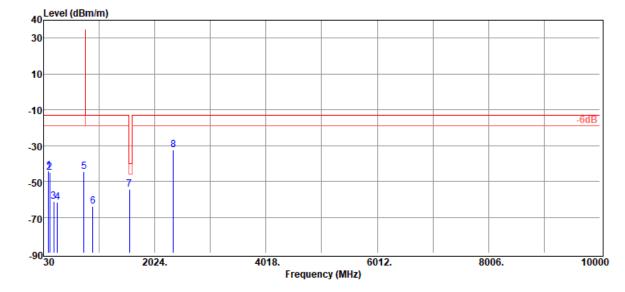


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
68.80	-52.05	-43.76	-7.41	-0.88	-13.00	-39.05
133.79	-44.72	-36.17	-7.01	-1.54	-13.00	-31.72
219.15	-58.51	-56.88	0.31	-1.94	-13.00	-45.51
752.65	-40.31	-38.42	0.74	-2.63	-13.00	-27.31
866.14	-65.49	-63.61	1.31	-3.19	-13.00	-52.49
946.65	-64.57	-63.17	1.82	-3.22	-13.00	-51.57
1569.00	-57.15	-62.35	8.89	-3.69	-40.00	-17.15
2353.50	-35.85	-41.04	9.73	-4.54	-13.00	-22.85



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



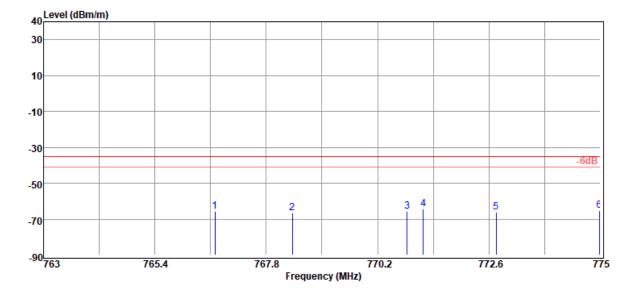
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-44.14	-34.89	-7.92	-1.33	-13.00	-31.14
138.64	-45.19	-37.25	-6.40	-1.54	-13.00	-32.19
214.30	-61.06	-59.39	0.22	-1.89	-13.00	-48.06
281.23	-61.52	-58.08	-1.26	-2.18	-13.00	-48.52
752.65	-44.37	-42.48	0.74	-2.63	-13.00	-31.37
910.76	-63.84	-62.26	1.55	-3.13	-13.00	-50.84
1569.00	-54.44	-59.64	8.89	-3.69	-40.00	-14.44
2353.50	-32.63	-37.82	9.73	-4.54	-13.00	-19.63



Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (763-775MHz)

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
700 70		00.00	0.00	0.00	25.00	00 50
766.70	-65.53	-63.66	0.82	-2.69	-35.00	-30.53
768.36	-66.70	-64.81	0.80	-2.69	-35.00	-31.70
770.84	-65.91	-63.96	0.77	-2.72	-35.00	-30.91
771.18	-64.15	-62.18	0.76	-2.73	-35.00	-29.15
772.76	-65.99	-63.91	0.71	-2.79	-35.00	-30.99
774.98	-65.16	-62.94	0.65	-2.87	-35.00	-30.16

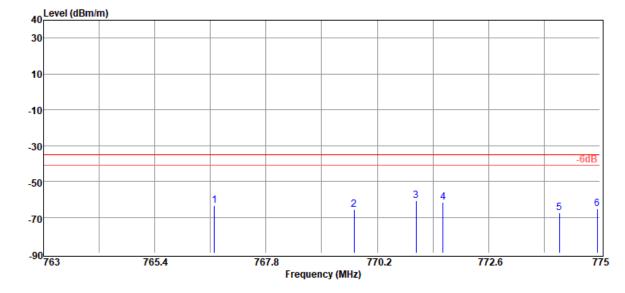
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

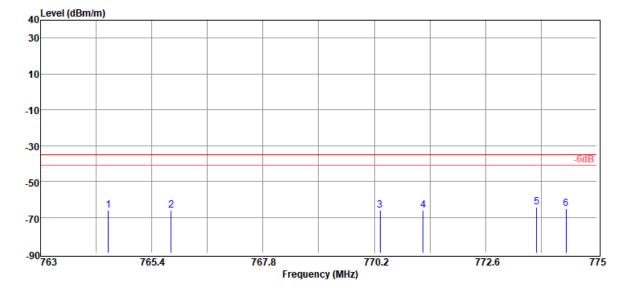


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
766.68	-63.65	-61.78	0.82	-2.69	-35.00	-28.65
769.70	-65.82	-63.92	0.79	-2.69	-35.00	-30.82
771.04	-60.60	-58.63	0.76	-2.73	-35.00	-25.60
771.62	-61.45	-59.44	0.74	-2.75	-35.00	-26.45
774.12	-67.44	-65.27	0.67	-2.84	-35.00	-32.44
774.94	-65.21	-62.99	0.65	-2.87	-35.00	-30.21



:E2/2019/B0012
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

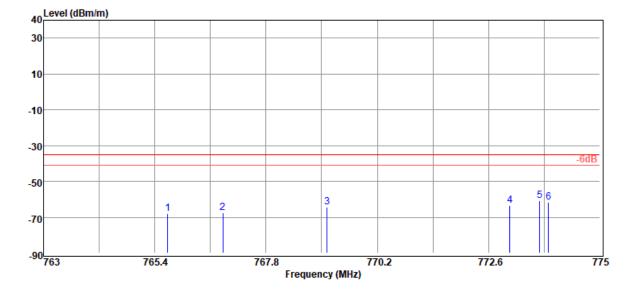


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.46	-65.99	-64.12	0.82	-2.69	-35.00	-30.99
765.82	-66.20	-64.33	0.82	-2.69	-35.00	-31.20
770.32	-66.27	-64.35	0.78	-2.70	-35.00	-31.27
771.26	-65.98	-63.99	0.75	-2.74	-35.00	-30.98
773.70	-64.36	-62.22	0.69	-2.83	-35.00	-29.36
774.34	-65.07	-62.89	0.67	-2.85	-35.00	-30.07



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

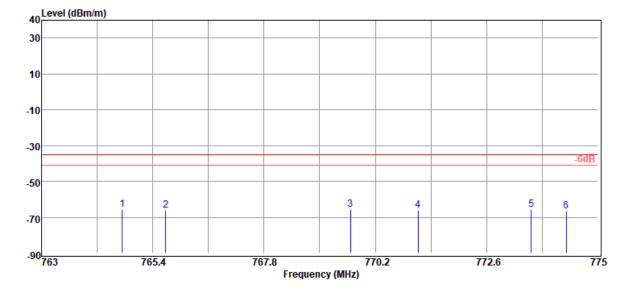


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
765.68	-67.74	-65.87	0.82	-2.69	-35.00	-32.74
766.86	-67.33	-65.46	0.82	-2.69	-35.00	-32.33
769.12	-64.37	-62.48	0.80	-2.69	-35.00	-29.37
773.06	-63.42	-61.32	0.70	-2.80	-35.00	-28.42
773.70	-60.82	-58.68	0.69	-2.83	-35.00	-25.82
773.90	-61.56	-59.41	0.68	-2.83	-35.00	-26.56



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

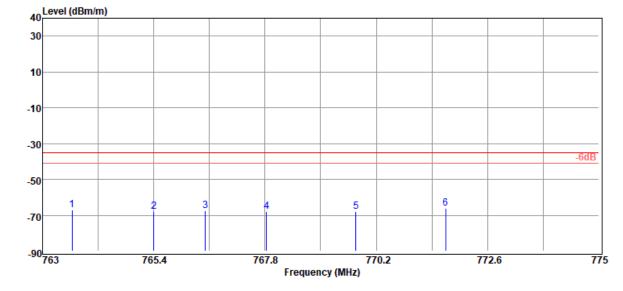


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.74	-65.88	-64.02	0.83	-2.69	-35.00	-30.88
765.68	-66.04	-64.17	0.82	-2.69	-35.00	-31.04
769.66	-65.56	-63.66	0.79	-2.69	-35.00	-30.56
771.12	-66.11	-64.14	0.76	-2.73	-35.00	-31.11
773.56	-65.77	-63.64	0.69	-2.82	-35.00	-30.77
774.32	-66.66	-64.48	0.67	-2.85	-35.00	-31.66



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



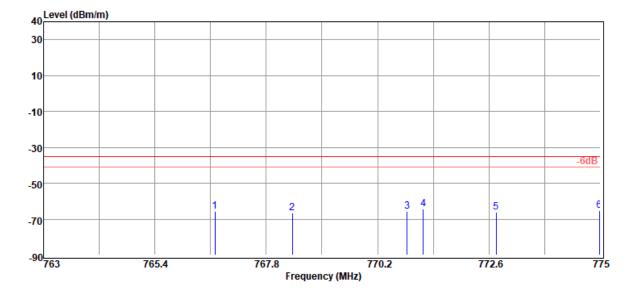
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.64	-67.21	-65.34	0.82	-2.69	-35.00	-32.21
765.40	-68.05	-66.19	0.83	-2.69	-35.00	-33.05
766.52	-67.49	-65.62	0.82	-2.69	-35.00	-32.49
767.84	-67.87	-65.99	0.81	-2.69	-35.00	-32.87
769.76	-67.91	-66.01	0.79	-2.69	-35.00	-32.91
771.70	-66.35	-64.34	0.74	-2.75	-35.00	-31.35



Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (793-805MHz)

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
700 70	05 50	00.00	0.00	0.00	05.00	00 50
766.70	-65.53	-63.66	0.82	-2.69	-35.00	-30.53
768.36	-66.70	-64.81	0.80	-2.69	-35.00	-31.70
770.84	-65.91	-63.96	0.77	-2.72	-35.00	-30.91
771.18	-64.15	-62.18	0.76	-2.73	-35.00	-29.15
772.76	-65.99	-63.91	0.71	-2.79	-35.00	-30.99
774.98	-65.16	-62.94	0.65	-2.87	-35.00	-30.16

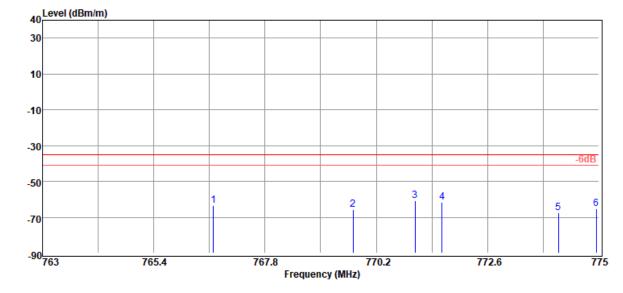
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

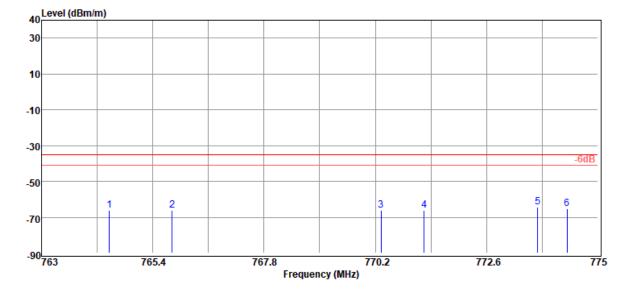


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
766.68	-63.65	-61.78	0.82	-2.69	-35.00	-28.65
769.70	-65.82	-63.92	0.79	-2.69	-35.00	-30.82
771.04	-60.60	-58.63	0.76	-2.73	-35.00	-25.60
771.62	-61.45	-59.44	0.74	-2.75	-35.00	-26.45
774.12	-67.44	-65.27	0.67	-2.84	-35.00	-32.44
774.94	-65.21	-62.99	0.65	-2.87	-35.00	-30.21



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

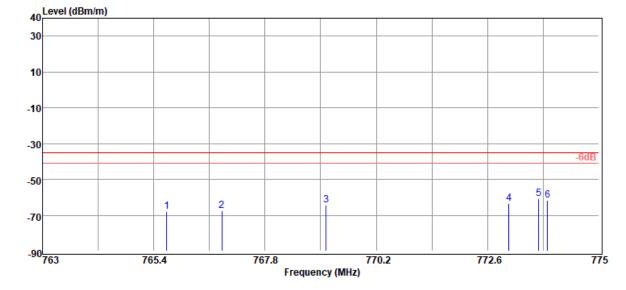


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.46	-65.99	-64.12	0.82	-2.69	-35.00	-30.99
765.82	-66.20	-64.33	0.82	-2.69	-35.00	-31.20
770.32	-66.27	-64.35	0.78	-2.70	-35.00	-31.27
771.26	-65.98	-63.99	0.75	-2.74	-35.00	-30.98
773.70	-64.36	-62.22	0.69	-2.83	-35.00	-29.36
774.34	-65.07	-62.89	0.67	-2.85	-35.00	-30.07



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

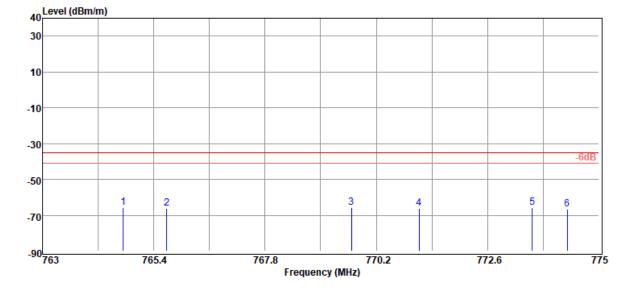


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
765.68	-67.74	-65.87	0.82	-2.69	-35.00	-32.74
766.86	-67.33	-65.46	0.82	-2.69	-35.00	-32.33
769.12	-64.37	-62.48	0.80	-2.69	-35.00	-29.37
773.06	-63.42	-61.32	0.70	-2.80	-35.00	-28.42
773.70	-60.82	-58.68	0.69	-2.83	-35.00	-25.82
773.90	-61.56	-59.41	0.68	-2.83	-35.00	-26.56



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

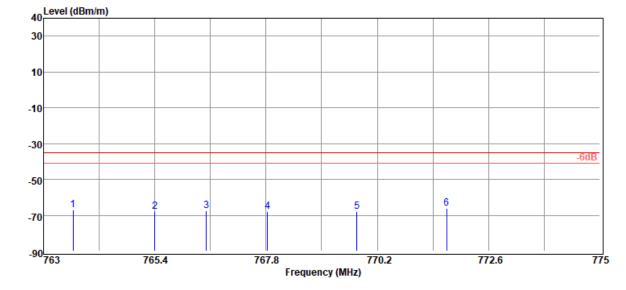


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.74	-65.88	-64.02	0.83	-2.69	-35.00	-30.88
765.68	-66.04	-64.17	0.82	-2.69	-35.00	-31.04
769.66	-65.56	-63.66	0.79	-2.69	-35.00	-30.56
771.12	-66.11	-64.14	0.76	-2.73	-35.00	-31.11
773.56	-65.77	-63.64	0.69	-2.82	-35.00	-30.77
774.32	-66.66	-64.48	0.67	-2.85	-35.00	-31.66



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



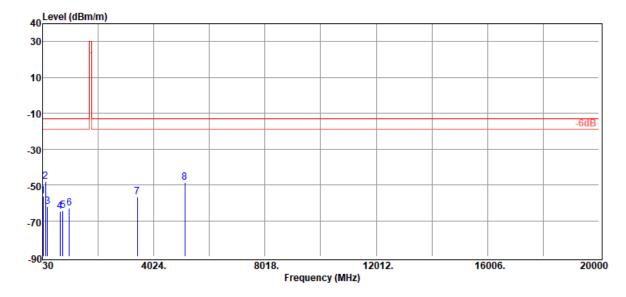
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.64	-67.21	-65.34	0.82	-2.69	-35.00	-32.21
765.40	-68.05	-66.19	0.83	-2.69	-35.00	-33.05
766.52	-67.49	-65.62	0.82	-2.69	-35.00	-32.49
767.84	-67.87	-65.99	0.81	-2.69	-35.00	-32.87
769.76	-67.91	-66.01	0.79	-2.69	-35.00	-32.91
771.70	-66.35	-64.34	0.74	-2.75	-35.00	-31.35



Radiated Spurious Emission Measurement Result: LTE Band 66 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1715 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin



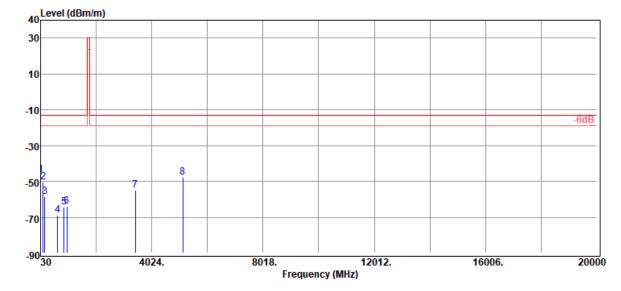
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-56.15	-41.82	-13.59	-0.74	-13.00	-43.15
133.79	-48.27	-39.72	-7.01	-1.54	-13.00	-35.27
216.24	-62.33	-60.73	0.31	-1.91	-13.00	-49.33
663.41	-64.82	-62.78	0.23	-2.27	-13.00	-51.82
754.59	-64.24	-62.31	0.72	-2.65	-13.00	-51.24
990.30	-63.04	-61.20	1.49	-3.33	-13.00	-50.04
3430.00	-56.53	-63.82	12.50	-5.21	-13.00	-43.53
5145.00	-48.51	-54.60	12.59	-6.50	-13.00	-35.51

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1715 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

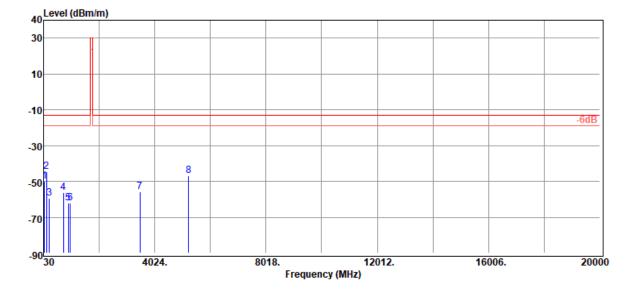


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-46.24	-16.42	-29.28	-0.54	-13.00	-33.24
122.15	-50.58	-41.30	-7.90	-1.38	-13.00	-37.58
185.20	-58.41	-56.03	-0.69	-1.69	-13.00	-45.41
649.83	-68.76	-66.56	0.02	-2.22	-13.00	-55.76
880.69	-64.15	-62.26	1.44	-3.33	-13.00	-51.15
977.69	-63.95	-62.05	1.51	-3.41	-13.00	-50.95
3430.00	-54.87	-62.16	12.50	-5.21	-13.00	-41.87
5145.00	-47.58	-53.67	12.59	-6.50	-13.00	-34.58



Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1745 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin

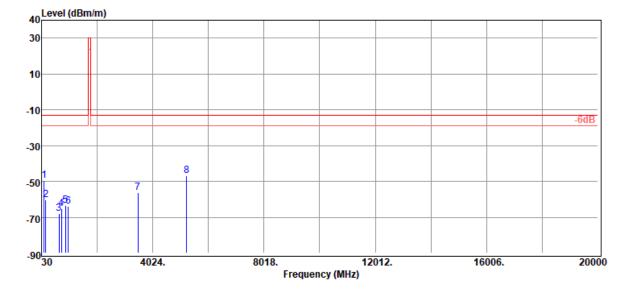


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	50.44	44.00	7.00	0.00	40.00	07.44
70.74	-50.11	-41.83	-7.39	-0.89	-13.00	-37.11
138.64	-44.68	-36.74	-6.40	-1.54	-13.00	-31.68
236.61	-59.60	-56.96	-0.66	-1.98	-13.00	-46.60
738.10	-56.16	-54.19	0.66	-2.63	-13.00	-43.16
912.70	-62.29	-60.70	1.57	-3.16	-13.00	-49.29
998.06	-62.08	-60.33	1.68	-3.43	-13.00	-49.08
3490.00	-55.70	-62.68	12.34	-5.36	-13.00	-42.70
5235.00	-46.97	-53.57	13.18	-6.58	-13.00	-33.97



Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1745 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

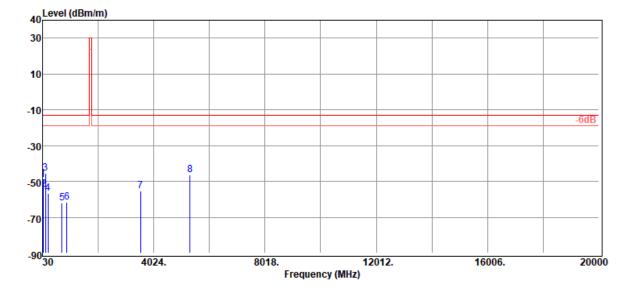


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-49.65	-40.40	-7.92	-1.33	-13.00	-36.65
182.29	-60.52	-57.94	-0.93	-1.65	-13.00	-47.52
655.65	-67.90	-65.77	0.08	-2.21	-13.00	-54.90
744.89	-65.28	-63.27	0.60	-2.61	-13.00	-52.28
896.21	-63.33	-61.71	1.41	-3.03	-13.00	-50.33
988.36	-64.08	-62.24	1.49	-3.33	-13.00	-51.08
3490.00	-56.12	-63.10	12.34	-5.36	-13.00	-43.12
5235.00	-46.99	-53.59	13.18	-6.58	-13.00	-33.99



Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1775 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:VERTICAL
Engineer	:Kailin

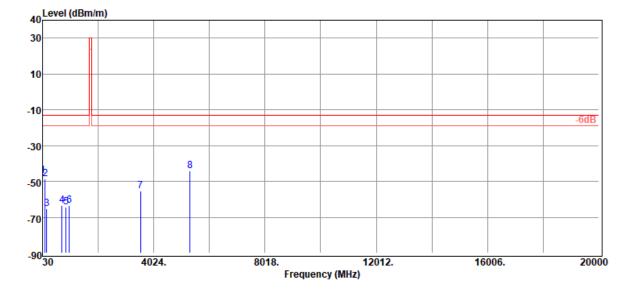


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-49.05	-32.71	-15.60	-0.74	-13.00	-36.05
68.80	-54.29	-46.00	-7.41	-0.88	-13.00	-41.29
138.64	-45.38	-37.44	-6.40	-1.54	-13.00	-32.38
230.79	-56.80	-54.59	-0.26	-1.95	-13.00	-43.80
736.16	-62.21	-60.23	0.68	-2.66	-13.00	-49.21
910.76	-61.84	-60.26	1.55	-3.13	-13.00	-48.84
3550.00	-55.29	-61.78	12.10	-5.61	-13.00	-42.29
5325.00	-46.42	-53.31	13.40	-6.51	-13.00	-33.42



Report Number	:E2/2019/B0012
Operation Mode	:LTE B66
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1775 MHz

Test Date	:2019-12-31
Temp./Humi.	:23.1/55
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



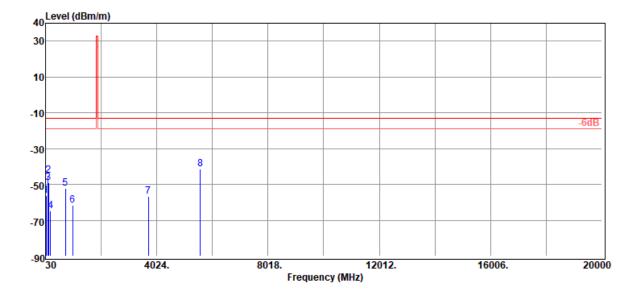
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-47.00	-17.18	-29.28	-0.54	-13.00	-34.00
122.15	-48.65	-39.37	-7.90	-1.38	-13.00	-35.65
177.44	-65.44	-62.51	-1.31	-1.62	-13.00	-52.44
735.19	-63.54	-61.56	0.69	-2.67	-13.00	-50.54
878.75	-64.23	-62.29	1.41	-3.35	-13.00	-51.23
992.24	-63.61	-61.83	1.58	-3.36	-13.00	-50.61
3550.00	-55.19	-61.68	12.10	-5.61	-13.00	-42.19
5325.00	-44.28	-51.17	13.40	-6.51	-13.00	-31.28



External Monopole Antenna Radiated Spurious Emission Measurement Result: LTE Band 2 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

woue
:2019-12-30
:22.6/64
:VERTICAL
:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-56.16	-39.82	-15.60	-0.74	-13.00	-43.16
120.21	-44.80	-35.55	-7.92	-1.33	-13.00	-31.80
131.85	-49.10	-40.32	-7.24	-1.54	-13.00	-36.10
217.21	-64.78	-63.17	0.31	-1.92	-13.00	-51.78
744.89	-52.42	-50.41	0.60	-2.61	-13.00	-39.42
999.03	-61.74	-59.96	1.67	-3.45	-13.00	-48.74
3720.00	-56.84	-62.93	12.14	-6.05	-13.00	-43.84
5580.00	-41.29	-47.67	13.30	-6.92	-13.00	-28.29

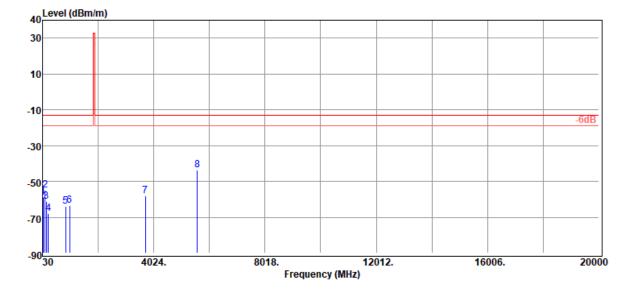
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

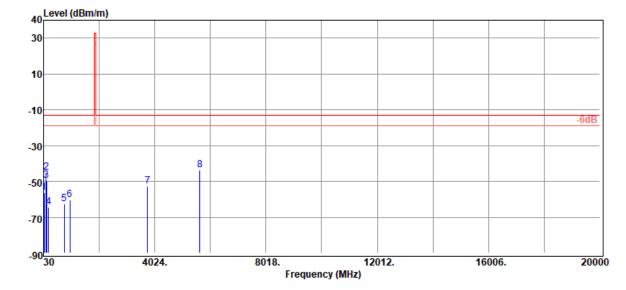


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-59.12	-40.05	-18.33	-0.74	-13.00	-46.12
122.15	-55.06	-45.78	-7.90	-1.38	-13.00	-42.06
160.95	-61.40	-56.82	-3.01	-1.57	-13.00	-48.40
235.64	-67.99	-65.45	-0.57	-1.97	-13.00	-54.99
866.14	-63.95	-62.07	1.31	-3.19	-13.00	-50.95
999.03	-63.51	-61.73	1.67	-3.45	-13.00	-50.51
3720.00	-57.99	-64.08	12.14	-6.05	-13.00	-44.99
5580.00	-43.67	-50.05	13.30	-6.92	-13.00	-30.67



:E2/2019/B0012
:LTE B2
:TX CH MID
:E2 Plan
:1880 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

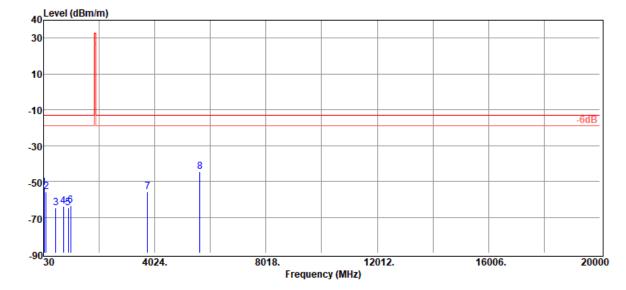


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-56.35	-42.02	-13.59	-0.74	-13.00	-43.35
121.18	-44.88	-35.72	-7.80	-1.36	-13.00	-31.88
136.70	-49.70	-41.50	-6.66	-1.54	-13.00	-36.70
212.36	-64.44	-62.56	-0.01	-1.87	-13.00	-51.44
773.02	-62.62	-60.53	0.71	-2.80	-13.00	-49.62
974.78	-60.20	-58.23	1.54	-3.51	-13.00	-47.20
3760.00	-52.56	-58.43	12.20	-6.33	-13.00	-39.56
5640.00	-43.57	-49.86	13.46	-7.17	-13.00	-30.57



Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1880 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

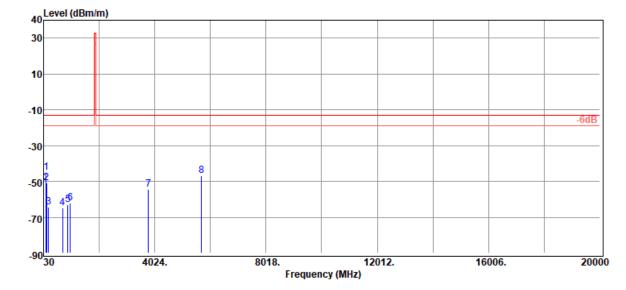


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-53.70	-34.63	-18.33	-0.74	-13.00	-40.70
120.21	-55.69	-46.44	-7.92	-1.33	-13.00	-42.69
473.29	-64.88	-61.20	-0.81	-2.87	-13.00	-51.88
747.80	-63.97	-62.05	0.69	-2.61	-13.00	-50.97
915.61	-64.63	-63.01	1.60	-3.22	-13.00	-51.63
999.03	-63.32	-61.54	1.67	-3.45	-13.00	-50.32
3760.00	-55.77	-61.64	12.20	-6.33	-13.00	-42.77
5640.00	-44.69	-50.98	13.46	-7.17	-13.00	-31.69



Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1900 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

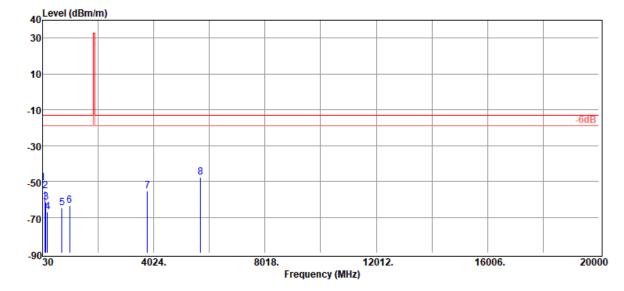


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-44.80	-35.55	-7.92	-1.33	-13.00	-31.80
131.85	-50.83	-42.05	-7.24	-1.54	-13.00	-37.83
204.60	-64.34	-62.00	-0.50	-1.84	-13.00	-51.34
716.76	-64.85	-63.37	0.84	-2.32	-13.00	-51.85
905.91	-62.86	-61.28	1.50	-3.08	-13.00	-49.86
990.30	-62.04	-60.20	1.49	-3.33	-13.00	-49.04
3800.00	-54.60	-60.20	12.20	-6.60	-13.00	-41.60
5700.00	-46.80	-52.60	13.30	-7.50	-13.00	-33.80



:E2/2019/B0012
:LTE B2
:TX CH HIGH
:E2 Plan
:1900 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

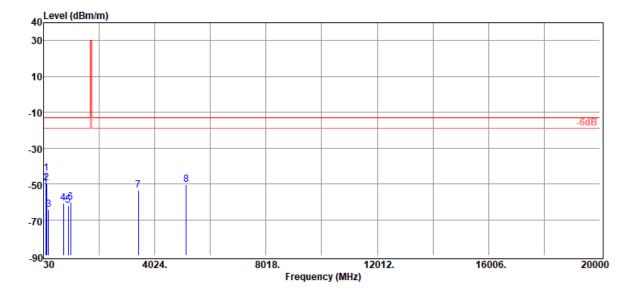


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-51.08	-21.26	-29.28	-0.54	-13.00	-38.08
121.18	-55.19	-46.03	-7.80	-1.36	-13.00	-42.19
149.31	-61.62	-55.33	-4.73	-1.56	-13.00	-48.62
216.24	-67.08	-65.48	0.31	-1.91	-13.00	-54.08
735.19	-64.89	-62.91	0.69	-2.67	-13.00	-51.89
1000.00	-63.38	-61.58	1.66	-3.46	-13.00	-50.38
3800.00	-55.55	-61.15	12.20	-6.60	-13.00	-42.55
5700.00	-47.62	-53.42	13.30	-7.50	-13.00	-34.62

Radiated Spurious Emission Measurement Result: LTE Band 4 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1717.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-44.12	-34.87	-7.92	-1.33	-13.00	-31.12
133.79	-49.65	-41.10	-7.01	-1.54	-13.00	-36.65
216.24	-64.35	-62.75	0.31	-1.91	-13.00	-51.35
744.89	-60.76	-58.75	0.60	-2.61	-13.00	-47.76
917.55	-62.30	-60.66	1.62	-3.26	-13.00	-49.30
1000.00	-60.32	-58.52	1.66	-3.46	-13.00	-47.32
3435.00	-53.45	-60.73	12.50	-5.22	-13.00	-40.45
5152.50	-50.26	-56.35	12.62	-6.53	-13.00	-37.26

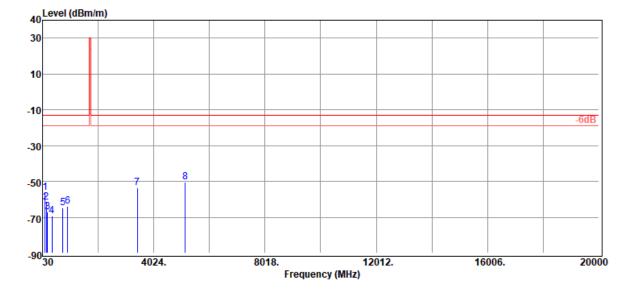
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1717.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

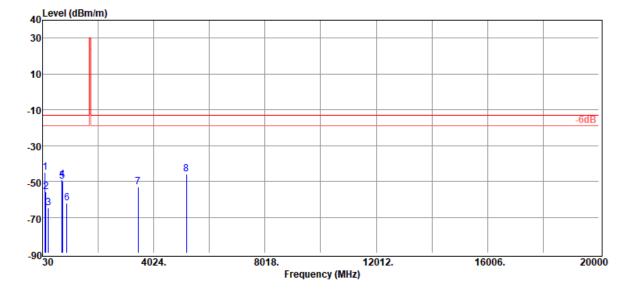


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-56.30	-47.05	-7.92	-1.33	-13.00	-43.30
160.95	-61.64	-57.06	-3.01	-1.57	-13.00	-48.64
214.30	-67.05	-65.38	0.22	-1.89	-13.00	-54.05
372.41	-69.51	-66.29	-0.57	-2.65	-13.00	-56.51
759.44	-64.85	-62.93	0.77	-2.69	-13.00	-51.85
932.10	-64.13	-62.65	1.81	-3.29	-13.00	-51.13
3435.00	-53.77	-61.05	12.50	-5.22	-13.00	-40.77
5152.50	-50.57	-56.66	12.62	-6.53	-13.00	-37.57



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

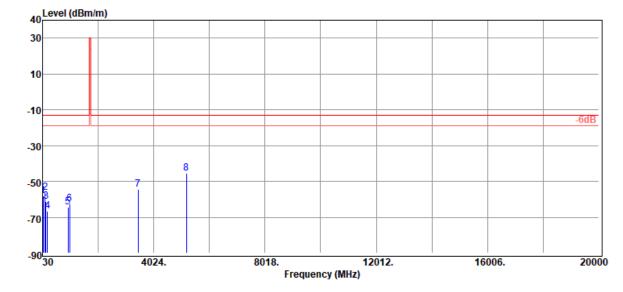


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
117.30	-44.79	-35.50	-7.96	-1.33	-13.00	-31.79
151.25	-55.96	-49.88	-4.52	-1.56	-13.00	-42.96
233.70	-64.59	-62.19	-0.44	-1.96	-13.00	-51.59
731.31	-49.18	-47.19	0.72	-2.71	-13.00	-36.18
740.04	-49.89	-47.92	0.64	-2.61	-13.00	-36.89
910.76	-62.14	-60.56	1.55	-3.13	-13.00	-49.14
3465.00	-53.02	-60.16	12.44	-5.30	-13.00	-40.02
5197.50	-46.04	-52.25	12.88	-6.67	-13.00	-33.04



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

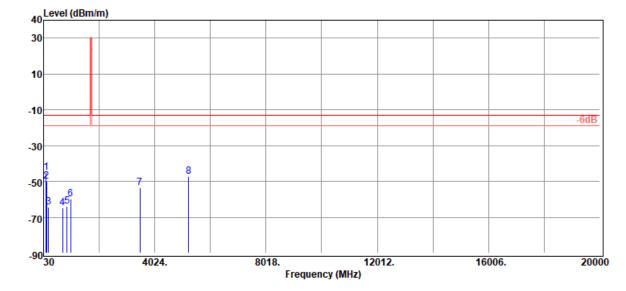


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-58.03	-38.96	-18.33	-0.74	-13.00	-45.03
121.18	-56.30	-47.14	-7.80	-1.36	-13.00	-43.30
151.25	-61.21	-55.13	-4.52	-1.56	-13.00	-48.21
214.30	-66.41	-64.74	0.22	-1.89	-13.00	-53.41
946.65	-64.37	-62.97	1.82	-3.22	-13.00	-51.37
1000.00	-62.75	-60.95	1.66	-3.46	-13.00	-49.75
3465.00	-54.32	-61.46	12.44	-5.30	-13.00	-41.32
5197.50	-45.36	-51.57	12.88	-6.67	-13.00	-32.36



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1747.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin

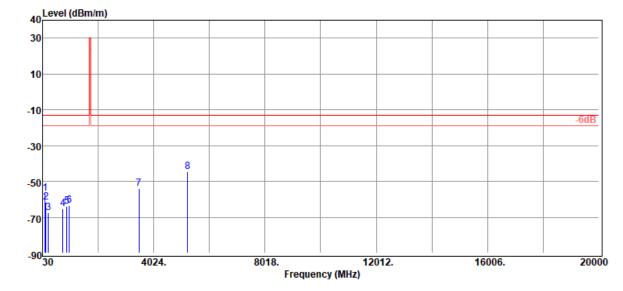


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-44.98	-35.73	-7.92	-1.33	-13.00	-31.98
134.76	-49.91	-41.42	-6.95	-1.54	-13.00	-36.91
216.24	-64.37	-62.77	0.31	-1.91	-13.00	-51.37
720.64	-64.74	-63.19	0.80	-2.35	-13.00	-51.74
875.84	-63.88	-61.86	1.33	-3.35	-13.00	-50.88
1000.00	-60.05	-58.25	1.66	-3.46	-13.00	-47.05
3495.00	-53.47	-60.41	12.32	-5.38	-13.00	-40.47
5242.50	-47.19	-53.87	13.24	-6.56	-13.00	-34.19



Report Number	:E2/2019/B0012
Operation Mode	:LTE B4
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1747.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

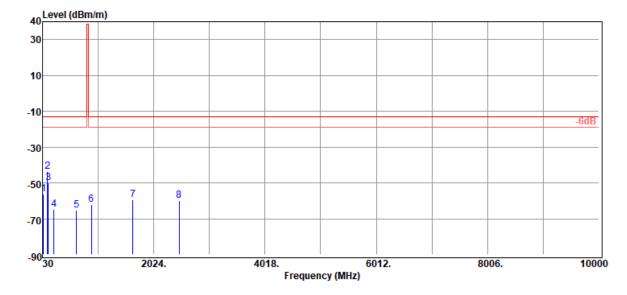


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
121.18	-56.57	-47.41	-7.80	-1.36	-13.00	-43.57
149.31	-61.58	-55.29	-4.73	-1.56	-13.00	-48.58
236.61	-67.54	-64.90	-0.66	-1.98	-13.00	-54.54
752.65	-65.27	-63.38	0.74	-2.63	-13.00	-52.27
905.91	-63.97	-62.39	1.50	-3.08	-13.00	-50.97
988.36	-63.28	-61.44	1.49	-3.33	-13.00	-50.28
3495.00	-53.89	-60.83	12.32	-5.38	-13.00	-40.89
5242.50	-44.65	-51.33	13.24	-6.56	-13.00	-31.65

Radiated Spurious Emission Measurement Result: LTE Band 5 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:825.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
48.43	-56.47	-41.17	-14.56	-0.74	-13.00	-43.47
117.30	-43.84	-34.55	-7.96	-1.33	-13.00	-30.84
134.76	-50.18	-41.69	-6.95	-1.54	-13.00	-37.18
233.70	-64.60	-62.20	-0.44	-1.96	-13.00	-51.60
638.19	-65.12	-62.37	-0.18	-2.57	-13.00	-52.12
909.79	-62.21	-60.64	1.54	-3.11	-13.00	-49.21
1651.00	-59.34	-65.28	9.40	-3.46	-13.00	-46.34
2476.50	-59.86	-66.50	10.56	-3.92	-13.00	-46.86

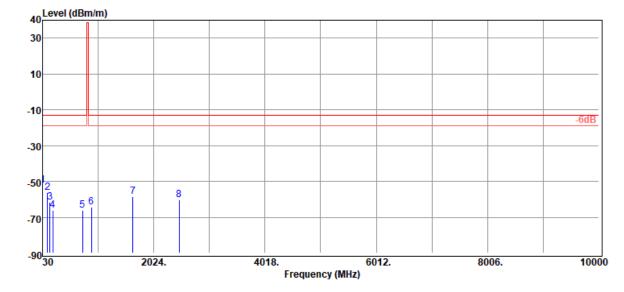
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:825.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

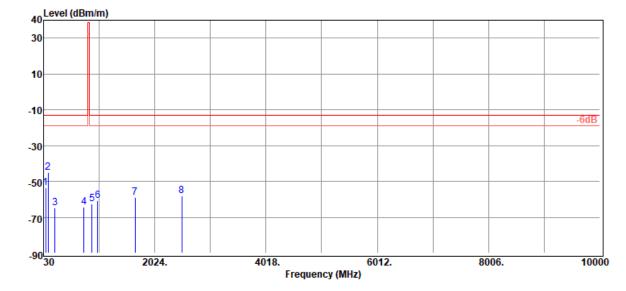


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-52.30	-22.48	-29.28	-0.54	-13.00	-39.30
120.21	-56.27	-47.02	-7.92	-1.33	-13.00	-43.27
160.95	-61.62	-57.04	-3.01	-1.57	-13.00	-48.62
212.36	-66.03	-64.15	-0.01	-1.87	-13.00	-53.03
749.74	-66.00	-64.14	0.75	-2.61	-13.00	-53.00
903.00	-64.44	-62.86	1.47	-3.05	-13.00	-51.44
1651.00	-58.44	-64.38	9.40	-3.46	-13.00	-45.44
2476.50	-60.10	-66.74	10.56	-3.92	-13.00	-47.10



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:VERTICAL
Engineer	:Kailin

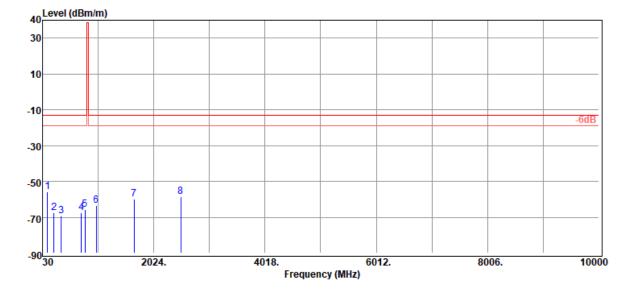


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.86	-53.68	-45.50	-7.30	-0.88	-13.00	-40.68
115.36	-45.02	-35.79	-7.90	-1.33	-13.00	-32.02
233.70	-64.79	-62.39	-0.44	-1.96	-13.00	-51.79
757.50	-64.28	-62.36	0.75	-2.67	-13.00	-51.28
896.21	-62.78	-61.16	1.41	-3.03	-13.00	-49.78
997.09	-60.98	-59.25	1.69	-3.42	-13.00	-47.98
1673.00	-58.84	-64.84	9.49	-3.49	-13.00	-45.84
2509.50	-57.93	-64.96	10.76	-3.73	-13.00	-44.93



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

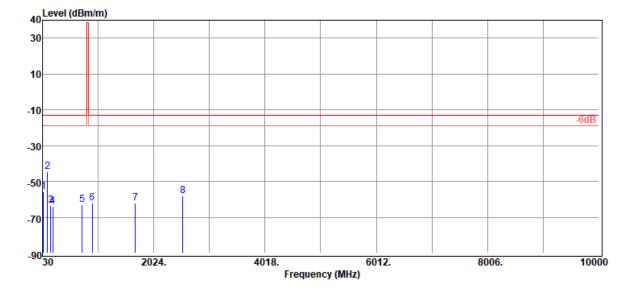


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-55.88	-46.63	-7.92	-1.33	-13.00	-42.88
235.64	-67.66	-65.12	-0.57	-1.97	-13.00	-54.66
367.56	-69.18	-66.05	-0.54	-2.59	-13.00	-56.18
723.55	-67.48	-65.79	0.78	-2.47	-13.00	-54.48
791.45	-65.53	-63.43	0.90	-3.00	-13.00	-52.53
993.21	-63.63	-61.89	1.63	-3.37	-13.00	-50.63
1673.00	-59.78	-65.78	9.49	-3.49	-13.00	-46.78
2509.50	-58.33	-65.36	10.76	-3.73	-13.00	-45.33



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:847.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:VERTICAL
Engineer	:Kailin

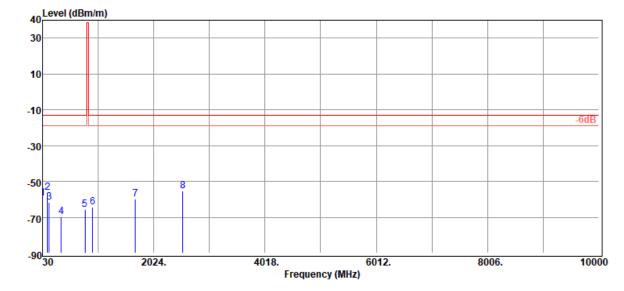


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-55.78	-41.45	-13.59	-0.74	-13.00	-42.78
121.18	-44.59	-35.43	-7.80	-1.36	-13.00	-31.59
180.35	-63.36	-60.66	-1.08	-1.62	-13.00	-50.36
216.24	-63.98	-62.38	0.31	-1.91	-13.00	-50.98
742.95	-62.88	-60.89	0.62	-2.61	-13.00	-49.88
919.49	-61.90	-60.23	1.63	-3.30	-13.00	-48.90
1695.00	-62.16	-68.22	9.58	-3.52	-13.00	-49.16
2542.50	-58.24	-65.43	10.95	-3.76	-13.00	-45.24



Report Number	:E2/2019/B0012
Operation Mode	:LTE B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:847.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.1/62
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



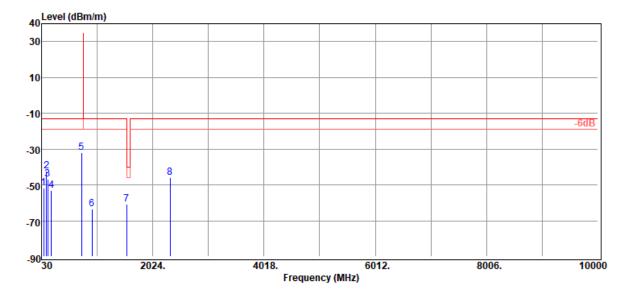
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-59.34	-30.89	-27.85	-0.60	-13.00	-46.34
122.15	-56.46	-47.18	-7.90	-1.38	-13.00	-43.46
149.31	-61.82	-55.53	-4.73	-1.56	-13.00	-48.82
366.59	-69.86	-66.78	-0.52	-2.56	-13.00	-56.86
788.54	-65.67	-63.48	0.87	-3.06	-13.00	-52.67
930.16	-64.16	-62.68	1.83	-3.31	-13.00	-51.16
1695.00	-59.98	-66.04	9.58	-3.52	-13.00	-46.98
2542.50	-55.28	-62.47	10.95	-3.76	-13.00	-42.28



Radiated Spurious Emission Measurement Result: LTE Band 13 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-51.84	-43.56	-7.39	-0.89	-13.00	-38.84
117.30	-42.24	-32.95	-7.96	-1.33	-13.00	-29.24
139.61	-46.68	-38.86	-6.28	-1.54	-13.00	-33.68
207.51	-53.01	-50.77	-0.40	-1.84	-13.00	-40.01
750.71	-31.87	-30.00	0.75	-2.62	-13.00	-18.87
938.89	-63.66	-62.32	1.89	-3.23	-13.00	-50.66
1559.00	-60.98	-65.98	8.79	-3.79	-40.00	-20.98
2338.50	-45.92	-51.00	9.61	-4.53	-13.00	-32.92

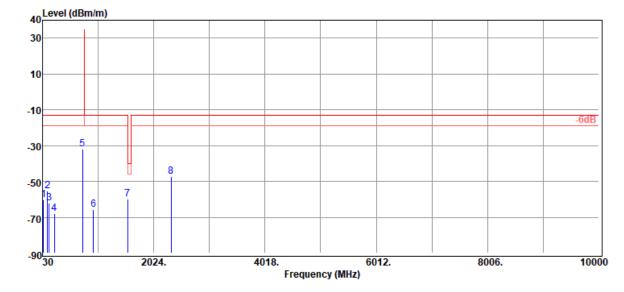
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

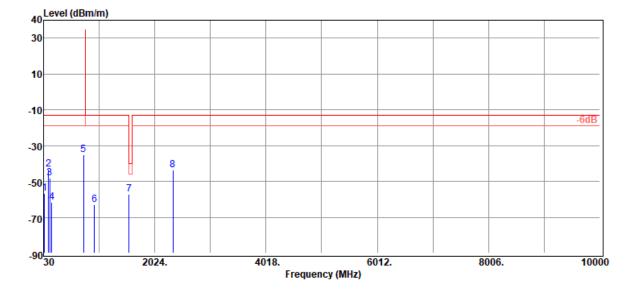


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.55	-60.13	-41.06	-18.33	-0.74	-13.00	-47.13
120.21	-55.38	-46.13	-7.92	-1.33	-13.00	-42.38
151.25	-62.00	-55.92	-4.52	-1.56	-13.00	-49.00
240.49	-67.74	-64.77	-0.98	-1.99	-13.00	-54.74
749.74	-32.03	-30.17	0.75	-2.61	-13.00	-19.03
939.86	-65.67	-64.37	1.92	-3.22	-13.00	-52.67
1559.00	-59.70	-64.70	8.79	-3.79	-40.00	-19.70
2338.50	-47.36	-52.44	9.61	-4.53	-13.00	-34.36



:E2/2019/B0012
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

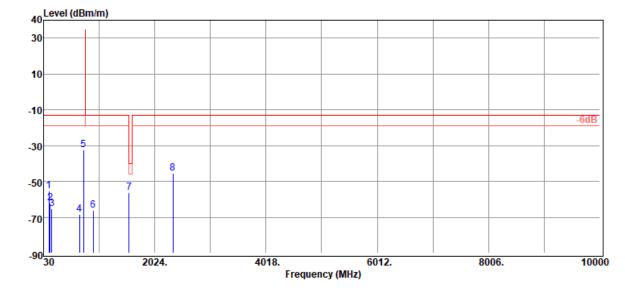


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-56.54	-40.20	-15.60	-0.74	-13.00	-43.54
117.30	-43.12	-33.83	-7.96	-1.33	-13.00	-30.12
139.61	-48.21	-40.39	-6.28	-1.54	-13.00	-35.21
178.41	-61.65	-58.82	-1.21	-1.62	-13.00	-48.65
750.71	-35.11	-33.24	0.75	-2.62	-13.00	-22.11
943.74	-63.17	-61.76	1.81	-3.22	-13.00	-50.17
1564.00	-57.07	-62.17	8.84	-3.74	-40.00	-17.07
2346.00	-43.75	-48.88	9.67	-4.54	-13.00	-30.75



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

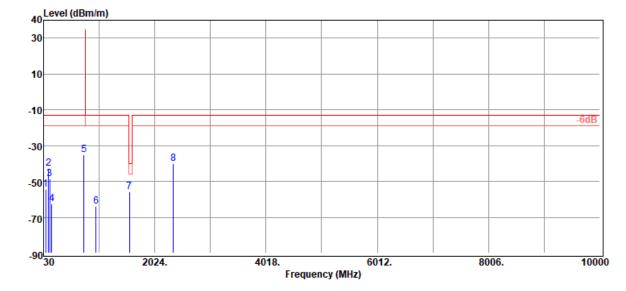


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
124.09	-55.52	-46.34	-7.76	-1.42	-13.00	-42.52
151.25	-62.01	-55.93	-4.52	-1.56	-13.00	-49.01
178.41	-65.35	-62.52	-1.21	-1.62	-13.00	-52.35
673.11	-68.26	-66.55	0.67	-2.38	-13.00	-55.26
749.74	-32.26	-30.40	0.75	-2.61	-13.00	-19.26
917.55	-66.17	-64.53	1.62	-3.26	-13.00	-53.17
1564.00	-56.23	-61.33	8.84	-3.74	-40.00	-16.23
2346.00	-45.58	-50.71	9.67	-4.54	-13.00	-32.58



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

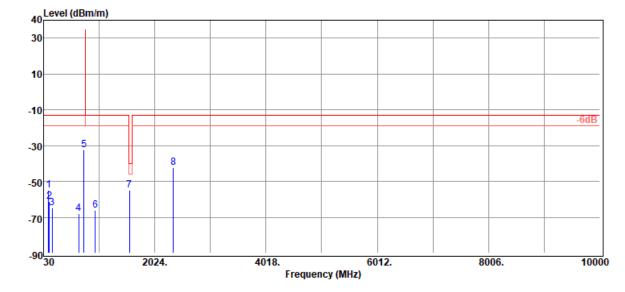


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-54.55	-46.27	-7.39	-0.89	-13.00	-41.55
120.21	-42.73	-33.48	-7.92	-1.33	-13.00	-29.73
138.64	-48.82	-40.88	-6.40	-1.54	-13.00	-35.82
178.41	-62.64	-59.81	-1.21	-1.62	-13.00	-49.64
752.65	-35.16	-33.27	0.74	-2.63	-13.00	-22.16
970.90	-63.80	-61.75	1.59	-3.64	-13.00	-50.80
1569.00	-55.90	-61.10	8.89	-3.69	-40.00	-15.90
2353.50	-40.24	-45.43	9.73	-4.54	-13.00	-27.24



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



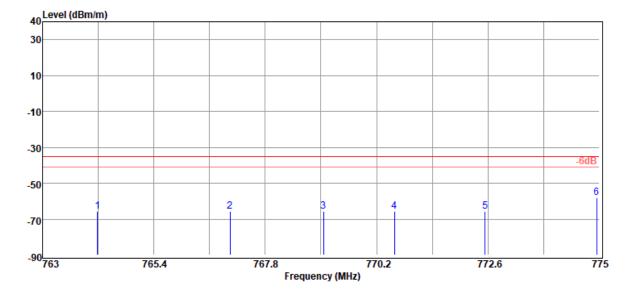
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
119.24	-55.13	-45.79	-8.01	-1.33	-13.00	-42.13
136.70	-61.36	-53.16	-6.66	-1.54	-13.00	-48.36
182.29	-64.66	-62.08	-0.93	-1.65	-13.00	-51.66
663.41	-68.01	-65.97	0.23	-2.27	-13.00	-55.01
752.65	-32.32	-30.43	0.74	-2.63	-13.00	-19.32
953.44	-66.07	-64.43	1.74	-3.38	-13.00	-53.07
1569.00	-54.72	-59.92	8.89	-3.69	-40.00	-14.72
2353.50	-42.45	-47.64	9.73	-4.54	-13.00	-29.45



Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (763-775MHz)

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.19	-65.91	-64.04	0.82	-2.69	-35.00	-30.91
767.04	-65.82	-63.94	0.81	-2.69	-35.00	-30.82
769.06	-65.84	-63.95	0.80	-2.69	-35.00	-30.84
770.58	-65.72	-63.78	0.77	-2.71	-35.00	-30.72
772.54	-65.78	-63.72	0.72	-2.78	-35.00	-30.78
774.94	-58.05	-55.83	0.65	-2.87	-35.00	-23.05

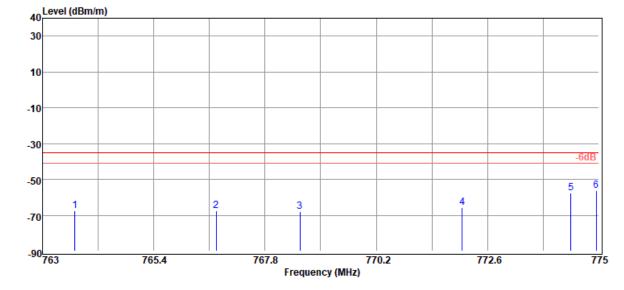
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

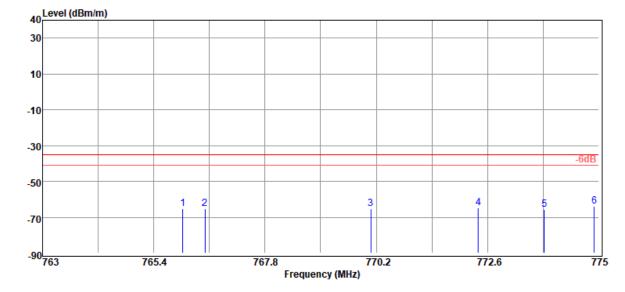


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.70	-67.39	-65.52	0.82	-2.69	-35.00	-32.39
766.74	-67.66	-65.79	0.82	-2.69	-35.00	-32.66
768.56	-67.77	-65.88	0.80	-2.69	-35.00	-32.77
772.05	-65.66	-63.62	0.73	-2.77	-35.00	-30.66
774.40	-57.60	-55.42	0.67	-2.85	-35.00	-22.60
774.94	-56.33	-54.11	0.65	-2.87	-35.00	-21.33



:E2/2019/B0012			
:LTE B13			
:TX CH MID			
:E2 Plan			
:782 MHz			

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



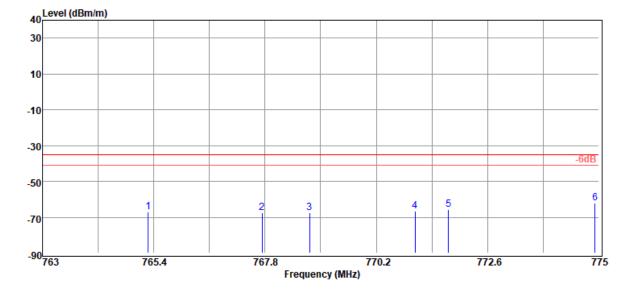
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
766.02	-65.19	-63.32	0.82	-2.69	-35.00	-30.19
766.50	-65.19	-63.32	0.82	-2.69	-35.00	-30.19
770.08	-65.18	-63.28	0.79	-2.69	-35.00	-30.18
772.40	-64.98	-62.92	0.72	-2.78	-35.00	-29.98
773.82	-65.92	-63.77	0.68	-2.83	-35.00	-30.92
774.90	-63.96	-61.74	0.65	-2.87	-35.00	-28.96

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Report Number	:E2/2019/B0012				
Operation Mode	:LTE B13				
Test Mode	:TX CH MID				
EUT Pol	:E2 Plan				
Test Channel	:782 MHz				

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

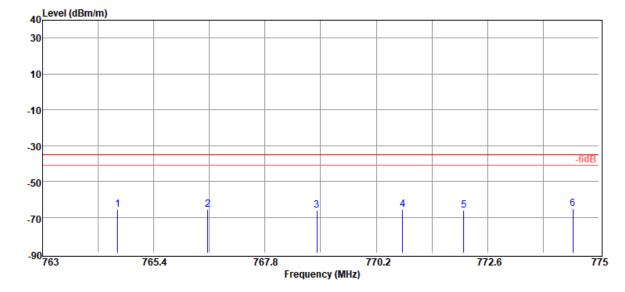


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
765.28	-66.99	-65.13	0.83	-2.69	-35.00	-31.99
767.74	-67.63	-65.75	0.81	-2.69	-35.00	-32.63
768.76	-67.43	-65.54	0.80	-2.69	-35.00	-32.43
771.04	-66.44	-64.47	0.76	-2.73	-35.00	-31.44
771.76	-65.82	-63.80	0.74	-2.76	-35.00	-30.82
774.92	-62.27	-60.05	0.65	-2.87	-35.00	-27.27



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



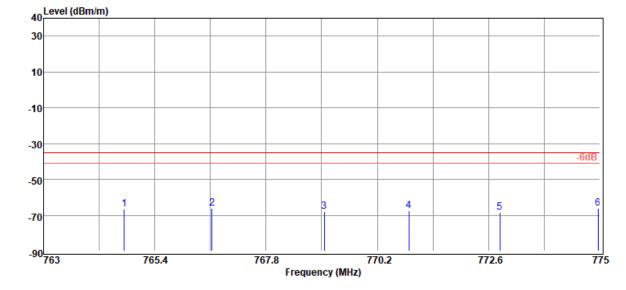
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.62	-65.53	-63.67	0.83	-2.69	-35.00	-30.53
766.56	-65.73	-63.86	0.82	-2.69	-35.00	-30.73
768.92	-66.12	-64.23	0.80	-2.69	-35.00	-31.12
770.76	-65.89	-63.94	0.77	-2.72	-35.00	-30.89
772.08	-66.09	-64.05	0.73	-2.77	-35.00	-31.09
774.44	-65.13	-62.95	0.67	-2.85	-35.00	-30.13

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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



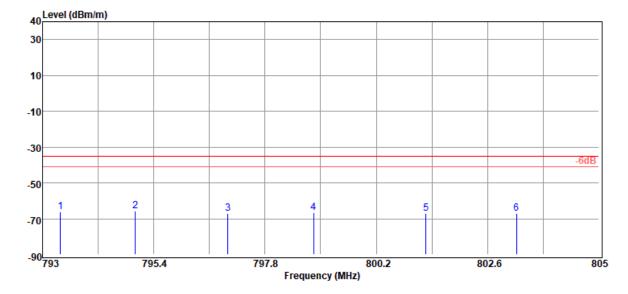
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.74	-66.59	-64.73	0.83	-2.69	-35.00	-31.59
766.64	-66.31	-64.44	0.82	-2.69	-35.00	-31.31
769.06	-67.91	-66.02	0.80	-2.69	-35.00	-32.91
770.88	-67.36	-65.41	0.77	-2.72	-35.00	-32.36
772.84	-68.26	-66.17	0.71	-2.80	-35.00	-33.26
774.96	-66.12	-63.90	0.65	-2.87	-35.00	-31.12



Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (793-805MHz)

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.38	-66.31	-64.27	0.88	-2.92	-35.00	-31.31
795.00	-65.80	-63.82	0.87	-2.85	-35.00	-30.80
797.00	-66.95	-65.11	0.93	-2.77	-35.00	-31.95
798.84	-66.76	-65.06	0.99	-2.69	-35.00	-31.76
801.27	-67.27	-65.67	1.04	-2.64	-35.00	-32.27
803.22	-67.06	-65.48	1.06	-2.64	-35.00	-32.06

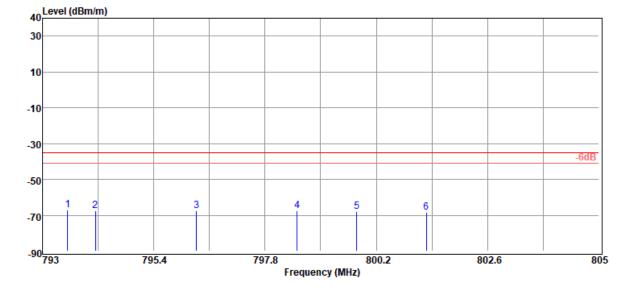
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

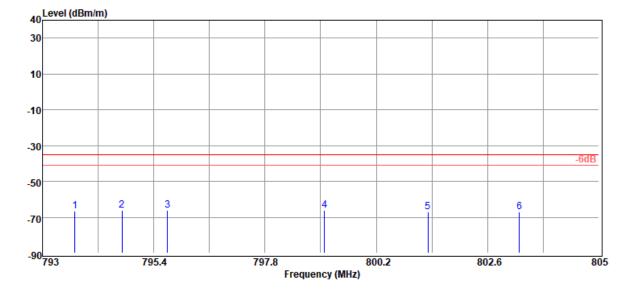


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.54	-67.23	-65.20	0.88	-2.91	-35.00	-32.23
794.14	-67.66	-65.65	0.88	-2.89	-35.00	-32.66
796.32	-67.52	-65.64	0.91	-2.79	-35.00	-32.52
798.50	-67.60	-65.87	0.97	-2.70	-35.00	-32.60
799.78	-68.10	-66.46	1.01	-2.65	-35.00	-33.10
801.28	-68.31	-66.71	1.04	-2.64	-35.00	-33.31



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

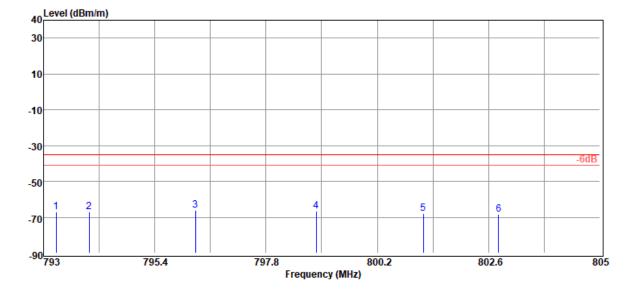


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.70	-66.72	-64.70	0.88	-2.90	-35.00	-31.72
794.72	-66.30	-64.31	0.87	-2.86	-35.00	-31.30
795.70	-66.07	-64.14	0.89	-2.82	-35.00	-31.07
799.08	-66.32	-64.63	0.99	-2.68	-35.00	-31.32
801.32	-66.85	-65.25	1.04	-2.64	-35.00	-31.85
803.28	-67.03	-65.45	1.06	-2.64	-35.00	-32.03



:E2/2019/B0012
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

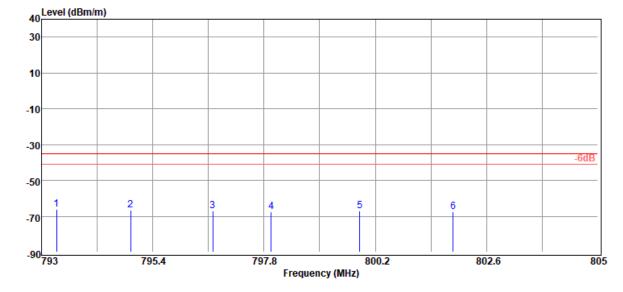


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.28	-67.13	-65.09	0.88	-2.92	-35.00	-32.13
793.98	-66.98	-64.97	0.88	-2.89	-35.00	-31.98
796.28	-66.15	-64.26	0.91	-2.80	-35.00	-31.15
798.88	-66.49	-64.79	0.99	-2.69	-35.00	-31.49
801.20	-68.10	-66.49	1.03	-2.64	-35.00	-33.10
802.82	-68.46	-66.87	1.05	-2.64	-35.00	-33.46



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

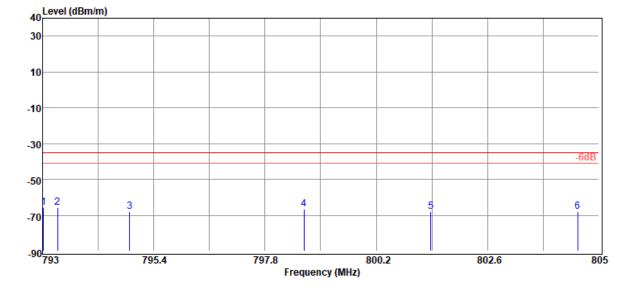


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.32	-66.03	-63.99	0.88	-2.92	-35.00	-31.03
794.92	-66.64	-64.66	0.87	-2.85	-35.00	-31.64
796.70	-66.86	-65.00	0.92	-2.78	-35.00	-31.86
797.96	-67.47	-65.70	0.96	-2.73	-35.00	-32.47
799.86	-66.84	-65.21	1.02	-2.65	-35.00	-31.84
801.88	-67.31	-65.71	1.04	-2.64	-35.00	-32.31



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



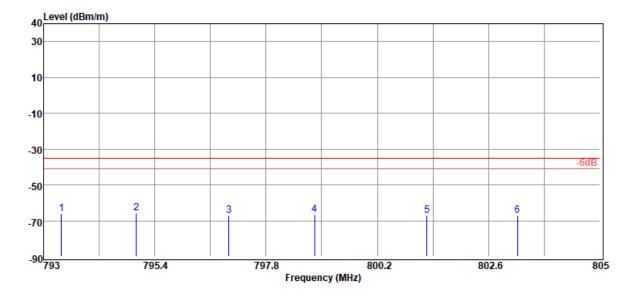
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.02	-65.52	-63.48	0.89	-2.93	-35.00	-30.52
793.32	-65.67	-63.63	0.88	-2.92	-35.00	-30.67
794.88	-67.79	-65.81	0.87	-2.85	-35.00	-32.79
798.64	-66.80	-65.08	0.98	-2.70	-35.00	-31.80
801.38	-67.93	-66.33	1.04	-2.64	-35.00	-32.93
804.54	-68.02	-66.45	1.07	-2.64	-35.00	-33.02



Radiated Spurious Emission Measurement Result: LTE Band 66 Mode

Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.38	-66.31	-64.27	0.88	-2.92	-35.00	-31.31
795.00	-65.80	-63.82	0.87	-2.85	-35.00	-30.80
797.00	-66.95	-65.11	0.93	-2.77	-35.00	-31.95
798.84	-66.76	-65.06	0.99	-2.69	-35.00	-31.76
801.27	-67.27	-65.67	1.04	-2.64	-35.00	-32.27
803.22	-67.06	-65.48	1.06	-2.64	-35.00	-32.06

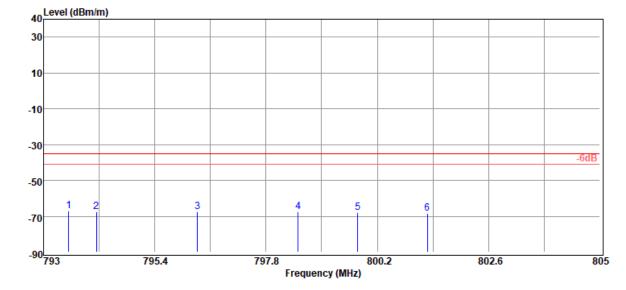
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Report Number	:E2/2019/B0012			
Operation Mode	:LTE B13			
Test Mode	:TX CH LOW			
EUT Pol	:E2 Plan			
Test Channel	:779.5 MHz			

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

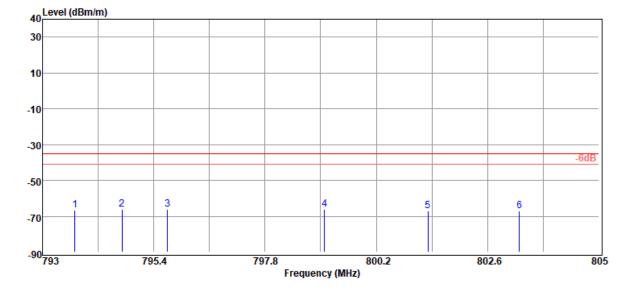


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.54	-67.23	-65.20	0.88	-2.91	-35.00	-32.23
794.14	-67.66	-65.65	0.88	-2.89	-35.00	-32.66
796.32	-67.52	-65.64	0.91	-2.79	-35.00	-32.52
798.50	-67.60	-65.87	0.97	-2.70	-35.00	-32.60
799.78	-68.10	-66.46	1.01	-2.65	-35.00	-33.10
801.28	-68.31	-66.71	1.04	-2.64	-35.00	-33.31



:E2/2019/B0012			
:LTE B13			
:TX CH MID			
:E2 Plan			
:782 MHz			

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

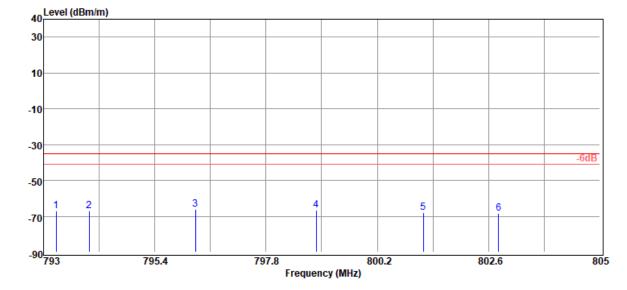


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.70	-66.72	-64.70	0.88	-2.90	-35.00	-31.72
794.72	-66.30	-64.31	0.87	-2.86	-35.00	-31.30
795.70	-66.07	-64.14	0.89	-2.82	-35.00	-31.07
799.08	-66.32	-64.63	0.99	-2.68	-35.00	-31.32
801.32	-66.85	-65.25	1.04	-2.64	-35.00	-31.85
803.28	-67.03	-65.45	1.06	-2.64	-35.00	-32.03



:E2/2019/B0012				
:LTE B13				
:TX CH MID				
:E2 Plan				
:782 MHz				

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin

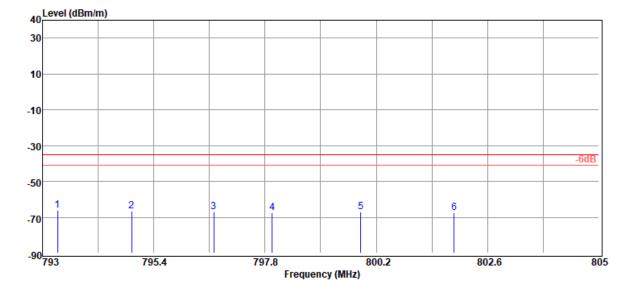


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.28	-67.13	-65.09	0.88	-2.92	-35.00	-32.13
793.98	-66.98	-64.97	0.88	-2.89	-35.00	-31.98
796.28	-66.15	-64.26	0.91	-2.80	-35.00	-31.15
798.88	-66.49	-64.79	0.99	-2.69	-35.00	-31.49
801.20	-68.10	-66.49	1.03	-2.64	-35.00	-33.10
802.82	-68.46	-66.87	1.05	-2.64	-35.00	-33.46



Report Number	:E2/2019/B0012			
Operation Mode	:LTE B13			
Test Mode	:TX CH HIGH			
EUT Pol	:E2 Plan			
Test Channel	:784.5 MHz			

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:VERTICAL
Engineer	:Kailin

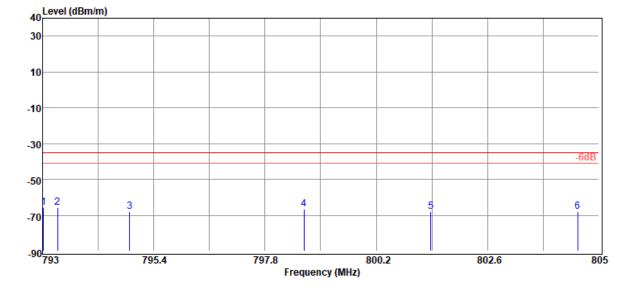


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.32	-66.03	-63.99	0.88	-2.92	-35.00	-31.03
794.92	-66.64	-64.66	0.87	-2.85	-35.00	-31.64
796.70	-66.86	-65.00	0.92	-2.78	-35.00	-31.86
797.96	-67.47	-65.70	0.96	-2.73	-35.00	-32.47
799.86	-66.84	-65.21	1.02	-2.65	-35.00	-31.84
801.88	-67.31	-65.71	1.04	-2.64	-35.00	-32.31



Report Number	:E2/2019/B0012
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-12-30
Temp./Humi.	:22.2/63
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



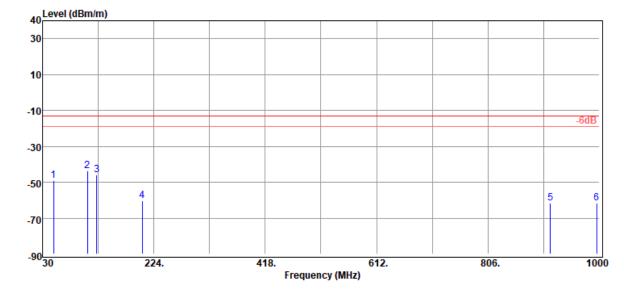
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.02	-65.52	-63.48	0.89	-2.93	-35.00	-30.52
793.32	-65.67	-63.63	0.88	-2.92	-35.00	-30.67
794.88	-67.79	-65.81	0.87	-2.85	-35.00	-32.79
798.64	-66.80	-65.08	0.98	-2.70	-35.00	-31.80
801.38	-67.93	-66.33	1.04	-2.64	-35.00	-32.93
804.54	-68.02	-66.45	1.07	-2.64	-35.00	-33.02



PCB 2nd Source Spot Check

Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

Test Date	:2020-01-17
Temp./Humi.	:22.6/64
Antenna Pol.	:VERTICAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
10.10	40.07	04.04	40.50	0.74	40.00	00.07
49.40	-49.27	-34.94	-13.59	-0.74	-13.00	-36.27
108.57	-43.57	-34.62	-7.64	-1.31	-13.00	-30.57
124.09	-45.69	-36.51	-7.76	-1.42	-13.00	-32.69
203.63	-60.16	-57.81	-0.51	-1.84	-13.00	-47.16
914.64	-61.50	-59.89	1.59	-3.20	-13.00	-48.50
995.15	-61.45	-59.77	1.72	-3.40	-13.00	-48.45

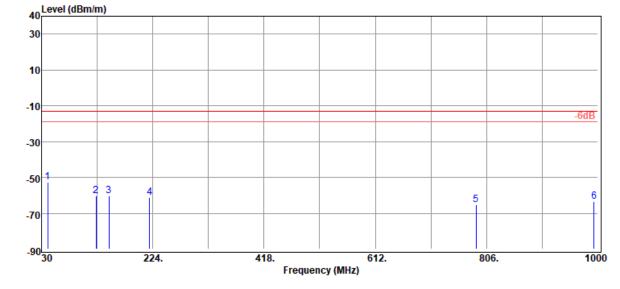
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Report Number	:E2/2019/B0012
Operation Mode	:LTE B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

Test Date	:2020-01-17
Temp./Humi.	:22.6/64
Antenna Pol.	:HORIZONTAL
Engineer	:Kailin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-52.52	-29.86	-21.92	-0.74	-13.00	-39.52
125.06	-60.09	-50.95	-7.70	-1.44	-13.00	-47.09
147.37	-60.53	-53.79	-5.19	-1.55	-13.00	-47.53
218.18	-61.00	-59.38	0.31	-1.93	-13.00	-48.00
787.57	-65.34	-63.12	0.84	-3.06	-13.00	-52.34
993.21	-63.36	-61.62	1.63	-3.37	-13.00	-50.36

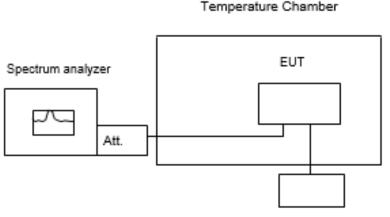


10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2 Test Set-up



Variable DC Power Supply

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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Note: Measurement setup for testing on Antenna connector

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Measurement Equipment Used 10.4

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio					
Communication	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Analyzer					
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNACK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF207	11/20/2019	11/19/2020

10.5 Measurement Result

Reference Freq.:	LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Free	. ERROR vs. VO	LTAGE	
13.8	25	1880.000013	13	4700
12	25	1880.000010	10	4700
10.2	25	1880.000007	7	4700
10 (End Point)	25	1880.000003	3	4700
	Fr	eq. ERROR vs. 1	emp.	
12	-30	1880.000012	12	4700
12	-20	1880.000009	9	4700
12	-10	1880.000008	8	4700
12	0	1880.000005	5	4700
12	10	1880.000006	6	4700
12	20	1880.000001	1	4700
12	30	1879.999998	-2	4700
12	40	1880.000003	3	4700
12	50	1879.999996	-4	4700

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Reference Freq.:		E B4 Mid	1732.5	MHz 20M QPSK CH 20175
•	Channel			
Power Supply Vdc	Temp. (°C)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		. ERROR vs. VC		
13.8	25	1732.500012	12	4331
12	25	1732.500010	10	4331
10.2	25	1732.500006	6	4331
10 (End Point)	25	1732.500005	5	4331
	Fre	eq. ERROR vs. 1	Гетр.	
12	-30	1732.500011	11	4331
12	-20	1732.500009	9	4331
12	-10	1732.500006	6	4331
12	0	1732.500004	4	4331
12	10	1732.500001	1	4331
12	20	1732.499997	-3	4331
12	30	1732.499994	-6	4331
12	40	1732.499995	-5	4331
12	50	1732.499999	-1	4331
Reference Freq.:		LTE B5 Mid Channel		MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		. ERROR vs. VO		
13.8	25	836.500011	11	2091
12	25	836.500006	6	2091
10.2	25	836.500004	4	2091
10	25	02/ 500002	3	2001
(End Point)	25	836.500003	3	2091
	Fre	eq. ERROR vs. 1	Temp.	
12	-30	836.500010	10	2091
12	-20	836.500009	9	2091
12	-10	836.500007	7	2091
12	0	836.500005	5	2091
12	10	836.500001	1	2091
12	20	836.499999	-1	2091
12	30	836.499996	-4	2091
12	40	836.499998	-2	2091



Reference Freq.:		B13 Mid nannel	782	MHz 10M QPSK CH 23230							
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)							
	Freq	. Error vs. VC	ITAGE								
13.8	25	782.000012	12	1955							
12	25	782.000007	7	1955							
10.2	25	782.000004	4	1955							
10 (End Point)	25	782.000003	3	1955							
	Fre	eq. ERROR vs. 1	Гетр.								
12	-30	782.000011	11	1955							
12	-20	782.000008	8	1955							
12	-10	782.000004	4	1955							
12	0	782.000000	0	1955							
12	10	781.999998	-2	1955							
12	20	781.999995	-5	1955							
12	30	781.999999	-1	1955							
12	40	782.000001	1	1955							
12	50	781.999997	-3	1955							
Reference Freq.:		B66 Mid nannel	1745	MHz 10M QPSK CH 132322							
Power Supply Vdc	Temp. (℃) Freq	Freq. (MHz) . ERROR vs. VO	Delta (Hz) LTAGE	Limit = +/- 2.5 ppm (Hz)							
Power Supply Vdc 13.8			· · ·	Limit = +/- 2.5 ppm (Hz) 6488							
	Freq	. ERROR vs. VO	LTAGE								
13.8 12 10.2	Freq 25	. ERROR vs. VO 1745.000010	LTAGE 10	6488							
13.8 12	Freq 25 25	. ERROR vs. VO 1745.000010 1745.000006	LTAGE 10 6	6488 6488							
13.8 12 10.2 10	Freq 25 25 25 25 25	ERROR vs. VO 1745.000010 1745.000006 1745.000004	10 6 4 2	6488 6488 6488							
13.8 12 10.2 10	Freq 25 25 25 25 25	. ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002	10 6 4 2	6488 6488 6488							
13.8 12 10.2 10 (End Point)	Freq 25 25 25 25 25 Fre	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1	LTAGE 10 6 4 2 emp.	6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12	Freq 25 25 25 25 25 25 Fre -30	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009	LTAGE 10 6 4 2 emp. 9 4 1	6488 6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12 12 12 12 12	Freq 25 25 25 25 5 5 5 5 5 5 5 5 5 5 5 5 5	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009 1745.000004	LTAGE 10 6 4 2 emp. 9 4	6488 6488 6488 6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12 12 12 12 12 12 12 12	Freq 25 25 25 25 Fre -30 -20 -10 0 10	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009 1745.000004 1745.000004	LTAGE 10 6 4 2 emp. 9 4 1	6488 6488 6488 6488 6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12 12 12 12 12	Freq 25 25 25 25 5 5 5 5 5 5 5 5 5 5 5 5 5	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009 1745.000004 1745.000001 1745.000001 1744.999998	LTAGE 10 6 4 2 emp. 9 4 1 -2 -4 -1	6488 6488 6488 6488 6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12 12 12 12 12 12 12 12	Freq 25 25 25 25 Fre -30 -20 -10 0 10	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009 1745.000004 1745.000004 1745.000001 1744.999998 1744.999996	LTAGE 10 6 4 2 emp. 9 4 1 -2 -4	6488 6488 6488 6488 6488 6488 6488 6488							
13.8 12 10.2 10 (End Point) 12 12 12 12 12 12 12 12 12 12 12	Freq 25 25 25 25 5 5 5 5 5 5 5 5 5 5 5 5 5	ERROR vs. VO 1745.000010 1745.000006 1745.000004 1745.000002 eq. ERROR vs. 1 1745.000009 1745.000009 1745.000001 1745.000001 1744.999998 1744.9999996 1744.999999	LTAGE 10 6 4 2 emp. 9 4 1 -2 -4 -1	6488 6488 6488 6488 6488 6488 6488 6488							

Note: The battery is rated 12Vdc.

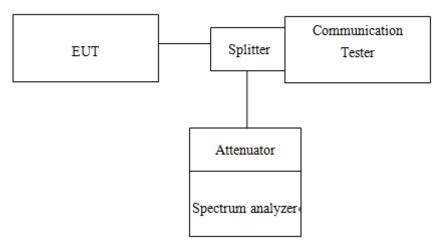


PEAK TO AVERAGE RATIO 11

11.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2 Test SET-UP



11.3 Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4 Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio					
Communication	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Analyzer					
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNACK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF207	11/20/2019	11/19/2020

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11.5 **Measurement Result**

	LTE BAND 2										
Chan	nel bandv	width: 1.4N	ЛНz	Cha	nnel banc	lwidth: 3M	Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1850.7	18607	6.69	13	1851.5	18615	6.61	13				
1880.0	18900	6.66	13	1880.0	18900	6.42	13				
1909.3	19193	6.71	13	1908.5	19185	6.47	13				

	LTE BAND 2										
Cha	nnel banc	lwidth: 5M	Hz	Chan	nel band	width: 10N	ЛНz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1852.5	18625	6.56	13	1855.0	18650	6.41	13				
1880.0	18900	6.52	13	1880.0	18900	6.33	13				
1907.5	19175	6.51	13	1905.0	19150	6.42	13				

	LTE BAND 2										
Chan	nel band	width: 15N	1Hz	Chan	nel band	width: 20N	/IHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1857.5	18675	6.79	13	1860.0	18700	7.19	13				
1880.0	18900	6.86	13	1880.0	18900	7.39	13				
1902.5	19125	6.86	13	1900.0	19100	7.24	13				



	LTE BAND 4										
Chanr	nel band	width: 1.4	MHz	Char	nel ban	dwidth: 3N	ЛНz				
Freq.	CH PAPR		(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1710.7	19957	6.47	13	1711.5	19965	6.42	13				
1732.5	20175	6.53	13	1732.5	20175	6.46	13				
1754.3	20393	6.38	13	1753.5	20385	5.85	13				

	LTE BAND 4										
Chan	nel ban	dwidth: 5N	/Hz	Chan	nel band	width: 10	MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)					
(MHz)	CII	64QAM	Limit	(MHz)	CH	64QAM	Limit				
1712.5	19957	6.41	13	1715.0	20000	6.26	13				
1732.5	20175	6.44	13	1732.5	20175	6.35	13				
1752.5	20375	6.38	13	1750.0	20350	6.27	13				

LTE BAND 4										
Chan	nel band	lwidth: 15l	MHz	Chan	nel band	width: 201	MHz			
Freq.	СН	PAPR (dB)		Freq.	СН	PAPR	(dB)			
(MHz)	CIT	64QAM	Limit	(MHz)	CH	64QAM	Limit			
1717.5	20025	6.80	13	1720.0	20050	7.21	13			
1732.5	20175	6.87	13	1732.5	20175	7.11	13			
1747.5	20325	6.89	13	1745.0	20300	7.27	13			

	LTE BAND 13										
Char	nel ban	dwidth: 5N	ЛНz	Chan	nel band	lwidth: 10	MHz				
Freq.	eq. CH PAPR (dB)		Freq.	СН	PAPR	(dB)					
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit				
779.5	23205	6.53	13								
782.0	23230	6.52	13	782.0	23230	6.34	13				
784.5	23255	6.52	13								



	LTE BAND 66										
Chan	nel band	width: 1.4N	ЛНz	Cha	nnel banc	lwidth: 3M	Hz				
Freq.	eq. CH PA		(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
1710.7	131979	6.48	13	1711.5	131987	6.51	13				
1745.0	132322	6.45	13	1745.0	132322	6.52	13				
1779.3	132665	6.48	13	1778.5	132657	6.46	13				

LTE BAND 66										
Cha	nnel banc	lwidth: 5M	Hz	Char	nel band	width: 10N	/IHz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit			
1712.5	131997	6.43	13	1715.0	132022	6.30	13			
1745.0	132322	6.47	13	1745.0	132322	6.32	13			
1777.5	132647	6.54	13	1775.0	132622	6.38	13			

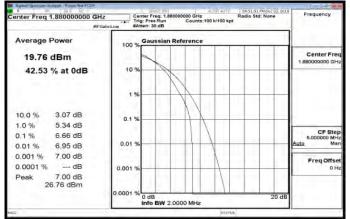
	LTE BAND 66										
Char	nel band	width: 15N	1Hz	Char	nel band	width: 20N	/IHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СН	64QAM	Limit				
1717.5	132047	6.86	13	1720.0	132072	7.31	13				
1745.0	132322	6.98	13	1745.0	132322	7.35	13				
1772.5	132597	6.89	13	1770.0	132572	7.36	13				



LTE_Band2_1_4MHz_64QAM_6_0_LowCH18607-1850.7

Center Freq 1.850700000 GHz MFGain	Center Freq. 1.850700000 GHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt Attent: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
19.70 dBm 43.23 % at 0dB	10 %	Center Freq 1.850700000 GHz
10.0 % 2.99 dB	1 %	
1.0 % 5.35 dB	0.1 %	CF Stee
0.1 % 6.69 dB 0.01 % 7.03 dB	0.01 %	5.000000 MHz Auto Mar
0.001 % 7.11 dB 0.0001 % dB	0.001 %	Freq Offse 0 Hz
Peak 7.11 dB 26.81 dBm	0.0001 % 0 dB 20 dB	

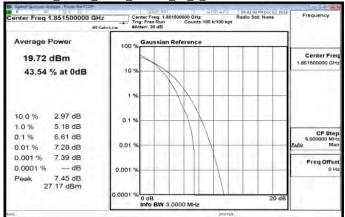
LTE_Band2_1_4MHz_64QAM_6_0_MidCH18900-1880



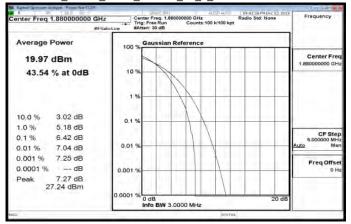
LTE_Band2_1_4MHz_64QAM_6_0_HighCH19193-1909.3

Center Freg 1.909300000		Phoe 03. bets d: None Frequency
Average Power	100 % Gaussian Reference	
19.15 dBm		Center Freq 1.909300000 GHz
42.73 % at 0dB	10%	
10.0 % 3.04 dB 1.0 % 5.33 dB	0.1 %	
0.1 % 6.71 dB 0.01 % 6.99 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.08 dB 0.0001 % dB Peak 7.30 dB	0.001 %	Freq Offset 0 Ha
26.45 dBm	0.0001 % 0 dB	20 dB

LTE_Band2_3MHz_64QAM_15_0_LowCH18615-1851.5



LTE Band2 3MHz 64QAM 15 0 MidCH18900-1880



LTE_Band2_3MHz_64QAM_15_0_HighCH19185-1908.5

Center Freq 1.908500000 GHz MFG	Center Freq: 1.908500000 GHz Radio Std: None Trip: Freq: 1.908500000 GHz Radio Std: None Trip: Freq: Thun Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
19.60 dBm		Center Fred 1.908500000 GHz
43.54 % at 0dB	10 % 1 % 0.1 %	
0.1% 6.47 dB 0.01% 7.24 dB 0.001% 7.40 dB	0.01 %	CF Step 5.000000 MH; Auto Mar
0.0001 % dB Peak 7.43 dB 27.03 dBm	0.001 %	Freq Offset 0 Hz
	0.0001 %	

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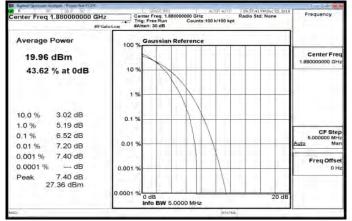
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LTE_Band2_5MHz_64QAM_25_0_LowCH18625-1852.5

enter Freg 1.852500000 GHz	Center Freq: 1.85200000 GHz Center Freq: 1.85200000 GHz Freq: Trig: Free Run Counts:100 k/100 kpt Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
19.69 dBm 43.80 % at 0dB	10 %	Center Freq 1.852500000 GHz
	1 %	
10.0 % 2.95 dB	0.1 %	_
0.1 % 6.56 dB 0.01 % 7.19 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.37 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 7.42 dB 27.11 dBm	0.0001 % 0 dB 20 df	
	Info BW 5,0000 MHz	°

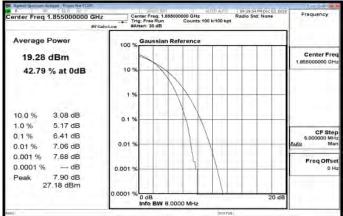
LTE Band2 5MHz 64QAM 25 0 MidCH18900-1880



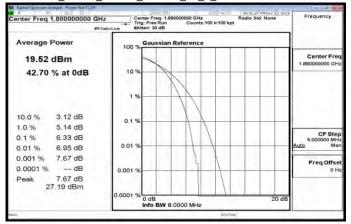
LTE_Band2_5MHz_64QAM_25_0_HighCH19175-1907.5

Center Freq 1	.907500000 GH	Z Center Freq: 1.907500000 GHz ALIO AUTO 196353 Center Freq: 1.907500000 GHz Radio S Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	td: None Frequency
Average F	ower	100 % Gaussian Reference	
19.84			Center Freq 1.907500000 GHz
43.71	% at 0dB 2.99 dB	10%	
1.0 % 0.1 % 0.01 %	5.16 dB 6.51 dB 7.21 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 0.0001 %	7.35 dB dB	0.001 %	Freq Offset 0 Hz
Peak 27	7.50 dB .34 dBm	0.0001 % 0 dB	20 dB

LTE_Band2_10MHz_64QAM_50_0_LowCH18650-1855



LTE Band2 10MHz 64QAM 50 0 MidCH18900-1880



LTE_Band2_10MHz_64QAM_50_0_HighCH19150-1905

Center Freg 1.905000000 GHz MFG	Center Freq: 1.90000000 GHz Radio Std: None Trig: Freq: Nun Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
19.77 dBm		Center Freq 1.905000000 GHz
42.84 % at 0dB	10%	
1.0 % 5.19 dB 0.1 % 6.42 dB 0.01 % 7.18 dB	0.01 %	CF Step 5.000000 MH; Auto Mar
0.001 % 7.63 dB 0.0001 % dB Peak 7.86 dB 27.63 dBm	0.001 %	Freq Offset 0 Hz
27.03 dBm	0.0001 % 0 dB 20 dB	

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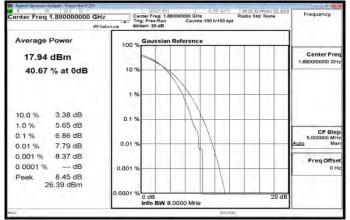
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LTE_Band2_15MHz_64QAM_75_0_LowCH18675-1857.5

Center Freq 1.857500000 GHz MFGain	Center Freq. 1.85700000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	1
17.76 dBm		Center Freq
40.51 % at 0dB	10 %	
	1 %	
10.0 % 3.37 dB 1.0 % 5.56 dB	0.1 %	-
0.1 % 6.79 dB 0.01 % 7.54 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.76 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 8.08 dB 25.84 dBm	0,001.28	0.42
	0.0001 % 0 dB 20 c	iB

LTE Band2 15MHz 64QAM 75 0 MidCH18900-1880



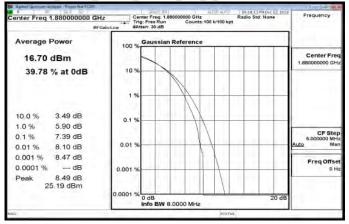
LTE_Band2_15MHz_64QAM_75_0_HighCH19125-1902.5

Center Freq 1.902500000 GHz	Genter Freg: 1.902500000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	12
17.94 dBm		Center Freq 1.902600000 GHz
40.83 % at 0dB	10%	
1.0 % 5.67 dB 0.1 % 6.86 dB 0.01 % 7.79 dB	0.01 %	CF Step 5.000000 MH; Auto Mar
0.001 % 8.18 dB 0.0001 % dB Peak 8.24 dB	0.001 %	Freq Offse 0 H
26.18 dBm	0.0001 % 0 dB 200	JB

Radio Std: None 8 150 F The enter Freq 1.860000000 GHz Center Freq. 1.86000000 GHz Trig: Free Run Counts:100 k/100 kpt Freque Average Power Gaussian Reference 100 Center Freq 16.95 dBm 39.82 % at 0dB 10 10.0 % 3 43 dB 0.1 5.89 dB 1.0 % CF Step 7.19 dB 0.1 % 7.98 dB 0.01 0.01 % 0.001 % 8.60 dB Freq Offse 0.0001 % --- dB 0.001 8.61 dB Peak 25.56 dBm 0001 0 dB Info BW 8.0000 MHz

LTE_Band2_20MHz_64QAM_100_0_LowCH18700-1860

LTE Band2 20MHz 64QAM 100 0 MidCH18900-1880



LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900

Center Freg 1.900000000 GHz	Center Freq. 1.90000000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt Batten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
16.83 dBm		Center Free 1.90000000 GHz
39.14 % at 0dB	10%	
	1 %	
10,0 % 3.51 dB	0.1%	
1.0 % 5.90 dB 0.1 % 7.24 dB		CF Step
0.01 % 8.38 dB	0.01 %	Auto Mar
0.001 % 8.88 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 9.05 dB		
25.88 dBm		

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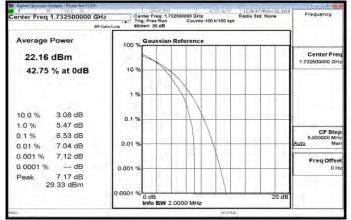
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LTE_Band4_1_4MHz_64QAM_6_0_LowCH19957-1710.7

Center Freq 1.710700000 GHz MFGaincte	Center Freq: 1.710700000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt w #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
20.48 dBm	10 %	Center Freq 1.710700000 GHz
42.67 % at 0dB	1 %	
10.0 % 3.08 dB	0.1 %	-
0.1 % 6.47 dB 0.01 % 6.78 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 6.88 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 6.90 dB 27.38 dBm	0.0001 % 0 dB 20.000 MHz 20.00	B

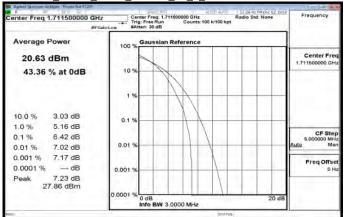
LTE_Band4_1_4MHz_64QAM_6_0_MidCH20175-1732.5



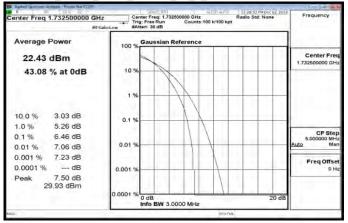
LTE_Band4_1_4MHz_64QAM_6_0_HighCH20393-1754.3

Center Freq 1.754300000 GHz MFGain	Center Freq. 1.754300000 GHz Radio Std: None Trig: Freq Run Counts:100 k/100 kpt sAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.35 dBm		Center Freq 1.754300000 GHz
42.88 % at 0dB 10.0 % 3.08 dB 1.0 % 5.36 dB 0.1 % 6.88 dB 0.01 % 6.63 dB	10 % 1 % 0.1 % 0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 6.67 dB 0.0001 % dB Peak 6.79 dB	0.001 %	Freq Offset 0 Hz
28.14 dBm	0.0001 % 0 dB 20 00 MHz 20 dB	1.1

LTE_Band4_3MHz_64QAM_15_0_LowCH19965-1711.5



LTE Band4 3MHz 64QAM 15 0 MidCH20175-1732.5



LTE_Band4_3MHz_64QAM_15_0_HighCH20385-1753.5

Center Freg 1.753500000 GH	IZ Center Freq. 1.753500000 GHz Radio Std: None Trig: Freq Num Counts:100 k/100 kpt BalinLow FAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
22.42 dBm 44.22 % at 0dB	10 %	Center Freq 1.753600000 GHz
10,0 % 2.91 dB	1 %	
1.0 % 5.18 dB 0.1 % 5.85 dB 0.01 % 6.07 dB	0.01 %	CF Step 5.000000 MH: Auto Mar
0.001 % 6.27 dB 0.0001 % dB Peak 6.31 dB	0.001 %	Freq Offset 0 Hz
28.73 dBm	0.0001 % 0 dB 20 dB	

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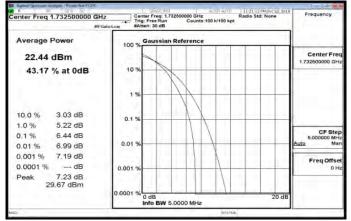
台灣檢驗科技股份有限公司



LTE_Band4_5MHz_64QAM_25_0_LowCH19975-1712.5

Center Freq 1.712500000 GHz MFGaince	Center Freq. 1.712500000 GHz Radio Std: 1 Trig: Free Run Counts: 100 k/100 kpt #Atten: 30 dB	None Frequency
Average Power	100 % Gaussian Reference	1.11
20.66 dBm		Center Freq 1.712500000 GHz
43.31 % at 0dB	10 %	
1.0	1 %	1.1
10.0 % 3.03 dB	0.1 %	
0.1 % 6.41 dB 0.01 % 6.92 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.19 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 7.20 dB 27.86 dBm	0,0001 %	
the second se	0.0001 % 0 dB	20 dB

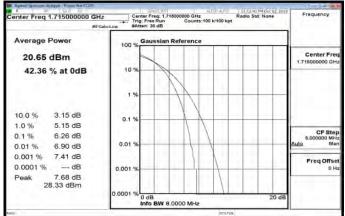
LTE_Band4_5MHz_64QAM_25_0_MidCH20175-1732.5



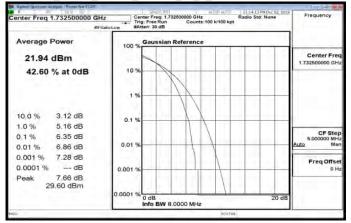
LTE_Band4_5MHz_64QAM_25_0_HighCH20375-1752.5

Center Freq 1.752500000 GH	IZ Center Freq. 1.752500000 GHz Radio Std: None Trig: Freq Run Counts:100 k/100 kpt Jain:Low SAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.47 dBm		Center Free 1.752600000 GHz
43.30 % at 0dB	10 %	
10.0 % 3.04 dB	0.1 %	
1.0 % 5.21 dB 0.1 % 6.38 dB 0.01 % 6.91 dB	0.01 %	CF Ster 5.000000 MH Auto Ma
0.001 % 7.16 dB 0.0001 % dB		FreqOffse
Peak 7.29 dB 28,76 dBm	0.001 %	OH
	0.0001 % 0 dB 20 dB 20 dB	

LTE_Band4_10MHz_64QAM_50_0_LowCH20000-1715



LTE Band4 10MHz 64QAM 50 0 MidCH20175-1732.5



LTE_Band4_10MHz_64QAM_50_0_HighCH20350-1750

Center Freg 1.750000000 GHz MFGa	Center Freq. 1.750000000 GHz Radio Std: None TircLiw SAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.17 dBm		Center Free 1.75000000 GHz
42.46 % at 0dB	1 %	
10.0 % 3.11 dB 1.0 % 5.19 dB	0.1 %	
0.1 % 6.27 dB 0.01 % 6.87 dB	0.01 %	CF Step 5.000000 MH Auto Mar
0.001 % 7.39 dB 0.0001 % dB	0.001%	Freq Offse 0 Ha
Peak 7.39 dB 28.56 dBm	0.0001 % 0 dB 20 dB	

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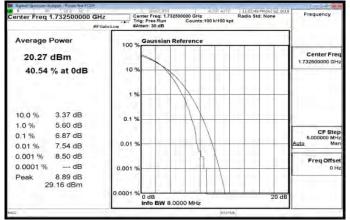
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LTE_Band4_15MHz_64QAM_75_0_LowCH20025-1717.5

Center Freg 1.717500000 GHz	Center Freg. 1.717500000 GHz Radio Std: None 	Frequency
Average Power	100 % Gaussian Reference	
19.10 dBm		Center Freq 1.717500000 GHz
40.68 % at 0dB	10 %	
1.11	1 %	-
10.0 % 3.34 dB	0.1 %	
1.0 % 5.60 dB		
0.1 % 6.80 dB		CF Step 5.000000 MH
0.01 % 7.51 dB	0.01 %	Auto Man
0.001 % 7.91 dB		Freq Offset
0.0001 % dB	0.001 %	0 Hz
Peak 8.12 dB 27.22 dBm		
	0.0001 % 0 dB 20 df info BW 8.0000 MHz	3

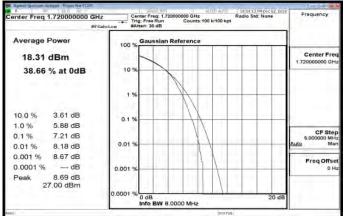
LTE_Band4_15MHz_64QAM_75_0_MidCH20175-1732.5



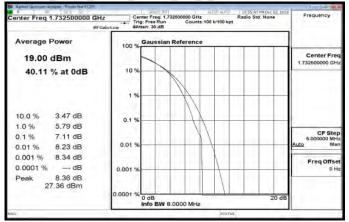
LTE_Band4_15MHz_64QAM_75_0_HighCH20325-1747.5

Center Freg 1.747500000 GH	Z Center Freq: 1.747500000 GHz Radio Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	Std: None Frequency
Average Power	100 % Gaussian Reference	
19.72 dBm		Center Freq 1.747500000 GHz
40.93 % at 0dB	10 %	
	1 %	
10.0 % 3.35 dB	0.1 %	
1.0 % 5.60 dB		CF Step
0.1 % 6.89 dB	0.01 %	5.000000 MHz Auto Man
0.01 % 7.60 dB	0.01 %	AUG Mar
0.001 % 8.15 dB		FreqOffse
0.0001 % dB	0.001 %	0 Hz
Peak 8.32 dB 28.04 dBm	E Calababa Calab	
	0.0001 % 0 dB	20 dB

LTE_Band4_20MHz_64QAM_100_0_LowCH20050-1720



LTE Band4 20MHz 64QAM 100 0 MidCH20175-1732.5



LTE_Band4_20MHz_64QAM_100_0_HighCH20300-1745

Center Freg 1.745000000 GHz MFG	Center Freg. 1.745000000 GHz Radio Std: None Trig: Free Rom Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
18.52 dBm		Center Freq 1.745000000 GHz
39.17 % at 0dB	10%	
10.0 % 3.52 dB 1.0 % 5.93 dB	0.1 %	
0.1 % 7.27 dB 0.01 % 8.00 dB 0.001 % 8.40 dB	0.01 %	CF Step 5.000000 MH; Auto Mar
0.001 % 8.40 dB 0.0001 % dB Peak 8.42 dB 26.94 dBm	0.001 %	Freq Offset 0 Hz
20.94 dBm	0.0001 % 0 dB 20 dB	

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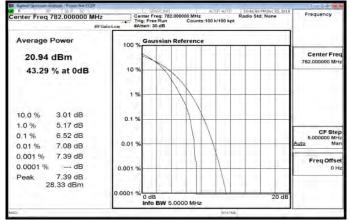
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LTE_Band13_5MHz_64QAM_25_0_LowCH23205-779.5

enter Freg 779.500000 MHz MFG	Center Freq: 779.500000 MHz Center Freq: 779.500000 MHz Trig: Freq Run Counts:100 k/100 kpt Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	19.10
21.32 dBm		Center Freq 779.500000 MHz
43.35 % at 0dB	10 %	1
	1 %	<u>.</u>
10.0 % 3.00 dB	0.1%	
1.0% 5.14 dB 0.1% 6.53 dB		CF Step
0.01 % 7.12 dB	0.01 %	Auto Man
0.001 % 7.38 dB		Freq Offset
0.0001 % dB	0.001 %	0 Hz
Peak 7.44 dB 28.76 dBm		
26.76 dbm	0.0001 %	

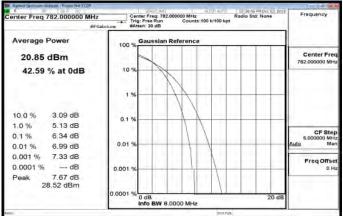
LTE_Band13_5MHz_64QAM_25_0_MidCH23230-782



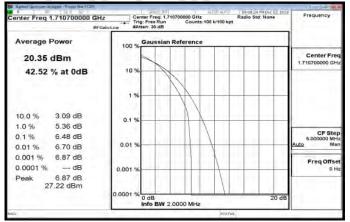
LTE_Band13_5MHz_64QAM_25_0_HighCH23255-784.5

Center Freg 784.500000 MHz #FGain:	Center Freq. 784,500000 MHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt SAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.09 dBm		Center Freq 784.500000 MHz
43.57 % at 0dB 10,0 % 3.00 dB 1.0 % 5.17 dB 0.1 % 6.52 dB	10 %	CF Step 5.00000 MHz
0.01 % 7.05 dB 0.001 % 7.40 dB	0.01 %	Auto Man
0.0001 % dB Peak 7.44 dB 28.53 dBm	0,001 %	Freq Offset 0 Hz
20,00 4011	0.0001 % 0 dB 20 dB 20 dB	

LTE_Band13_10MHz_64QAM_50_0_MidCH23230-782



LTE Band66 1 4MHz 64QAM 6 0 LowCH131979-1710.7



LTE_Band66_1_4MHz_64QAM_6_0_MidCH132322-1745

Center Freg 1.745000000 G	SH2 Center Freq. 1.745000000 GHz Radio Std: None Trig: Freq Run Counts:100 k/100 kpt #FGains.cow SAtten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	1
21.82 dBm	10 %	Center Fred 1.745000000 GHz
42.74 % at 0dB	3 %	
10.0 % 3.11 dB 1.0 % 5.30 dB	0.1 %	-
0.1 % 6.45 dB 0.01 % 6.77 dB	0.01 %	CF Step 5.000000 MH; Auto Mar
0.001 % 6.83 dB 0.0001 % dB Peak 6.92 dB	0.001 %	Freq Offset 0 Hz
28.74 dBm	0.0001 % odb 20	dB

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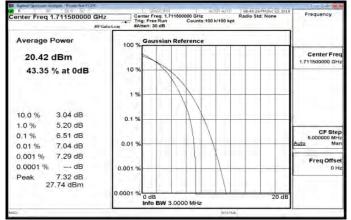
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LTE_Band66_1_4MHz_64QAM_6_0_HighCH132665-1779.3

Center Freq 1.779300000 GHz MFGainste	Site: III) ALIOI AUTO HELLS3PH Get 85 2ets Center Freq: 1.775300000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt w #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.87 dBm		Center Freq 1.779300000 GHz
43.06 % at 0dB	10%	
10,0 % 3.09 dB	0.1 %	
1.0% 5.40 dB 0.1% 6.48 dB 0.01% 6.72 dB	0.01 %	CF Step 5.000000 MHz Auto Mar
0.001 % 6.75 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 6.83 dB 28.70 dBm	0.0001 % 0 dB 20 dB	

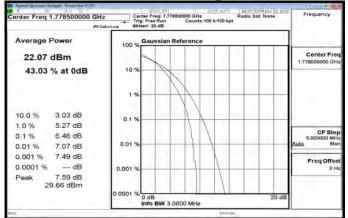
LTE_Band66_3MHz_64QAM_15_0_LowCH131987-1711.5



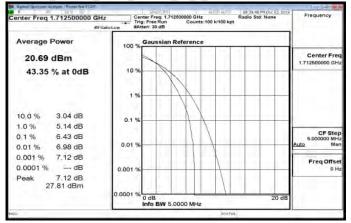
LTE_Band66_3MHz_64QAM_15_0_MidCH132322-1745

Center Freq 1.745000000 GHz	Center Freq 1.74500000 GHz Radio Std: None Trig: Freq Run Counts:100 k/100 kpt aw #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
21.77 dBm	10 %	Center Freq 1.745000000 GHz
43.04 % at 0dB 10,0 % 3.08 dB 1.0 % 5.28 dB 0.1 % 6.52 dB 0.01 % 7.13 dB 0.001 % 7.34 dB 0.0001 % dB Peak 7.36 dB Peak 7.36 dB	1 % 1 % 0.1 % 0.01 % 0.001 %	CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz
	0.0001 % 0 dB 20 dB 20 dB	

LTE_Band66_3MHz_64QAM_15_0_HighCH132657-1778.5



LTE Band66 5MHz 64QAM 25 0 LowCH131997-1712.5



LTE_Band66_5MHz_64QAM_25_0_MidCH132322-1745

Center Freg 1.745000000 GHz MFG	Center Freq: 1.74500000 GHz Center Freq: 1.74500000 GHz 	Frequency
Average Power	100 % Gaussian Reference	
21.99 dBm		Center Free 1.745000000 GH
43.45 % at 0dB	10 %	
10.0 % 3.05 dB 1.0 % 5.22 dB	0.1%	
0.1 % 6.47 dB 0.01 % 7.16 dB	0.01 %	CF Step 5.000000 MH Auto Mar
0.001 % 7.26 dB 0.0001 % dB Peak 7.31 dB	0,001 %	Freq Offse

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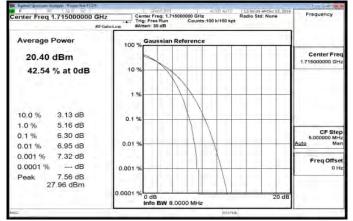
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LTE_Band66_5MHz_64QAM_25_0_HighCH132647-1777.5

Center Freq 1.777500000 GHz	Center Freq: 1.777600000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
22.27 dBm		Center Freq 1.777500000 GHz
43.67 % at 0dB	10 %	
	1 %	
10.0 % 3.01 dB	0.1%	
1.0 % 5.24 dB 0.1 % 6.54 dB		CF Step
0.01 % 7.11 dB	0.01 %	Auto Man
0.001 % 7.31 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 7.32 dB 29.59 dBm		
	0.0001 % 0 dB 20 dB	

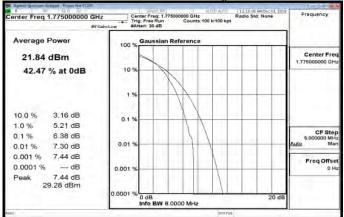
LTE Band66 10MHz 64QAM 50 0 LowCH132022-1715



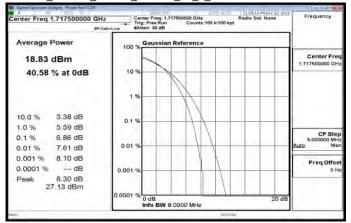
LTE_Band66_10MHz_64QAM_50_0_MidCH132322-1745

Center Freq 1.745000000 GHz #FGainst	2800-1071 ALION AUTO 1220745 AMD0c03, 2039 Canter Frag. 1.745000000 GMz Radio Std: None	Frequency
Average Power	100 % Gaussian Reference	
21.36 dBm 42.61 % at 0dB	10 %	Center Freq 1.745000000 GHz
10,0 % 3.11 dB 1.0 % 5.17 dB 0.1 % 6.32 dB 0.01 % 6.90 dB	1 % 0.1 % 0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.53 dB 0.0001 % dB Peak 7.55 dB 28.91 dBm	0.001 %	Freq Offset 0 Hz
	0.0001 % 0 dB 20 dB	1.00

LTE_Band66_10MHz_64QAM_50_0_HighCH132622-1775



LTE_Band66_15MHz_64QAM_75_0_LowCH132047-1717.5



LTE_Band66_15MHz_64QAM_75_0_MidCH132322-1745

Center Freg 1.745000000 GHz	Center Freg. 1.745000000 GHz Radio Std: None Trig: Free Radio Std: None instaw #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
19.68 dBm		Center Fred 1.745000000 GHz
40.23 % at 0dB	10 %	
	1 %	
10.0 % 3.42 dB	0.1 %	
1.0 % 5.68 dB 0.1 % 6.98 dB		CF Step
0.1 % 6.98 dB 0.01 % 7.73 dB	0.01 %	5.000000 MH Auto Mar
0.001 % 8.53 dB	1 h	FreqOffse
0.0001 % dB	0.001 %	0 Hu
Peak 8.53 dB 28.21 dBm		
20.21 0011	0.0001 %	

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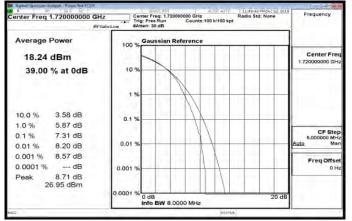
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LTE_Band66_15MHz_64QAM_75_0_HighCH132597-1772.5

Center Freq 1.772500000 GHz	Trig: Free Run Counts:100 k/100 kpt	Bo Std: None Frequency
Average Power	100 % Gaussian Reference	
19.95 dBm		Center Fred 1.772500000 GHz
40.24 % at 0dB	10 %	
	1 %	
10.0 % 3.38 dB	0.1 %	
1.0 % 5.66 dB 0.1 % 6.89 dB		CF Step 5.000000 MHz
0.01 % 8.16 dB	0.01 %	Auto Man
0.001 % 9.01 dB		FreqOffse
0.0001 % dB Peak 9.01 dB	0.001 %	0 Hz
28.96 dBm		
	0.0001 % 0 dB	20 dB

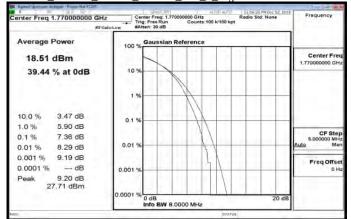
LTE_Band66_20MHz_64QAM_100_0_LowCH132072-1720



LTE_Band66_20MHz_64QAM_100_0_MidCH132322-1745

Center Freq 1.745000000 GHz MFG#	Center Freq 1.745000000 GHz Radio Std: None Trig: Freq Run Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
18.48 dBm		Center Freq 1.745000000 GHz
39.23 % at 0dB 10.0 % 3.50 dB 1.0 % 5.85 dB 0.1 % 7.35 dB		CF Step 5.000000 MHz Auto Man
0.01 % 8.31 dB 0.001 % 8.97 dB 0.0001 % dB	0.01%	Freq Offset
Peak 9.47 dB 27.95 dBm	0.0001 % 0 dB	

LTE_Band66_20MHz_64QAM_100_0_HighCH132572-1770



~ End of Report ~

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