Mask H



15:38:18 27.10.2022



Measurement Method	Conducted	Test Channel	853.9875 MHz
Channel Separation	12.5 kHz	Modulation	Digital



20:34:13 28.10.2022



urement Method Cor	nducted	Te	est Channel	814.9875 MHz
nel Separation 12.	5 kHz	Μ	odulation	Digital
Agilent Spectrum Analyzer - Occupied Δ T RF 50 Ω AC Center Freq 814.987500	BW MHz #IFGain:Low #Atter	SENSE:INT SOURCE OFF r Freq: 814.987500 MHz ree Run Avg Hol :: 40 dB	ALIGNAUTO 03:59:05 PM A Radio Std: N d:>10/10 Radio Device	wg22,2022 one e: BTS
Ref Offset 21 dl 10 dB/div Ref 40.00 dE 30.0	Bim	AMANANA -	Manaulana ana ana ana ana ana ana ana ana ana	Center Freq 814.987500 MHz
-50.0 Center 815 MHz #Res BW 300 Hz	#	VBW 1 kHz	Span Sweep 68	50 kHz 80.7 ms Auto Man
Occupied Bandwic	lth 7.755 kHz	Total Power	39.8 dBm	
Transmit Freq Error x dB Bandwidth	32 Hz 10.34 kHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz
MSG			STATUS	

Mask D



Mask 90.691



15:39:28 27.10.2022



urement Method	Conducted	Τe	est Channel	823.9875 MHz	
nel Separation	12.5 kHz	M	odulation	Digital	
Agilent Spectrum Analyzer - 0 X T RF 50 Center Freq 823.98	ccupied BW Ω AC Centei 7500 MHz Centei 7500 MHz Trig: F #IFGain:Low #Atten	sense:INT SOURCE OFF Freq: 823.987500 MHz ree Run Avg Hold 40 dB	ALIGNAUTO 03:59:44PM Radio Std: 1 d:>10/10 Radio Devic	Aug 22, 2022 None ce: BTS	
Ref Offs 10 dB/div Ref 40. 30.0	et 21 dB 00 dBm		and the second s	Сепter Fn 823.987500 М	eq Hz
Center 824 MHz #Res BW 300 Hz	#	/BW 1 kHz	Spar Sweep 6	n 50 kHz 580.7 ms 5.000 k	ep Hz
Occupied Ban	dwidth	Total Power	39.1 dBm	<u>Auto</u> M	an
Transmit Freq Ei x dB Bandwidth	7.516 kHz rror 204 Hz 9.491 kHz	OBW Power x dB	99.00 % -26.00 dB	Freq Offs 0	et Hz
MSG			STATUS		

Mask D

Spectrum Emission M	lask						■1Rm Mat
Limit Check	ILISK	PASS					S TRITING
P<200		1100					
0 dBm							
0 dBm			0.6				
J UBIN			Marrian	N			
24			row	1			
J dBm			N	7		1	
			SN	No			
) dBm		/	N				
			1	h			
dBm			ſ	1			
abin		18					
5 BA					$\langle \rangle$		
LO dBm							-
		1					
0 dBm					VY Y	8	
	2	15				2	2
0 dBm							
0 dBm					M		
O UBIT		P			ha	A.	
	~	a not			Vin	SA.	
F 823.9875 MHz		1001 pts	4	6	5.25 kHz/	503 0 2366. 10	Span 62.5 k
Result Summary							
ub Block A	Center	823.99 MHz	Pea	k Power	31.57 dBm	RBW	300.000 Hz
Rangelow	Range Lin	DBW	Erequer		Dower Abs	Dower Rel	Al imit
-31,250 kHz	-12,500 kHz	300.000 Hz	823.97334	MHz	-48.38 dBm	-79.95 dB	-25.15 dB
-12.500 kHz	-5.625 kHz	300.000 Hz	823.98047	MHZ	-7.14 dBm	-38.71 dB	-8.48 dB
5.625 kHz	12.500 kHz	300.000 Hz	823.99991	MHz	-45.27 dBm	-76.84 dB	-7.52 dB
12 500 kHz	31,250 kHz	300.000 Hz	824.00078	3 MHz	-45.49 dBm	-77.06 dB	-22.26 dB

13:57:06 19.08.2022

Mask §90.691



15:40:48 27.10.2022



surement Method	Conducted	Те	est Channel	851.0125 N	ЛНz
nnel Separation	12.5 kHz	M	odulation	Digital	
Agilent Spectrum Analyzer - Occ <mark>Ø</mark> T RF SoΩ Center Freq 851.012	AC Center 2500 MHz Center #IFGain:Low #Atten:	SENSE:INT SOURCE OFF Freq: 851.012500 MHz ee Run Avg Hold 40 dB	ALIGNAUTO 04:02:46 PM Radio Std: 1:> 10/10 Radio Devi	Aug 22, 2022 None ce: BTS	uency
Ref Offset Ref Offset 10 dB/div Ref 40.0 20.0	21 dB 0 dBm 		More Marine M Marine Marine M Marine Marine M	Cer 851.01	nter Freq 2500 MHz
Center 851 MHz #Res BW 300 Hz	#\	/BW 1 kHz	Spa Sweep 6	n 50 kHz 680.7 ms	CF Step 5.000 kHz
Occupied Band	width 7.457 kHz	Total Power	40.3 dBm	Auto Fre	Man eq Offset
Transmit Freq Err x dB Bandwidth	or -36 Hz 9.312 kHz	OBW Power x dB	99.00 % -26.00 dB		0 Hz
MSG			STATUS		

			Mask	D			
MultiView 🔠 B	3W-D X 1w-D	3W-I	Iw-I	X			V
Ref Level 50.00 dBm	Offset 21.00 dB	Mode Auto FFT	Date				
1 Spectrum Emission M	Mask				·		●1Rm Max
Limit Check		PASS					
40 dBm							
30 dBm		-	1 MM	4			
20 dBm			N	6			
			al l	h			
10 dBm			1				
0 dBm-			V	hay -	1		
10.00		1		l	1		
-10 dBm				s.	11		
-20 dBm		1 m			501	2	-
-30 dBm					V		
		Van					
-40 dBm-		10)	My		
CF 851.0125 MHz		1001 pts		6.	25 kHz/	A. A. A. A.	Span 62.5 kHz
2 Result Summary	Cantan		Deel		1.04.40	DDW	200.000 11-
SUD BIOCK A	Center	851.01 MHZ	Реан	c Power 3	1.34 dbm	RBW	300.000 Hz None
Range Low	Range Up	RBW	Frequen	cy	Power Abs	Power Rel	ΔLimit
-31.250 kHz	-12.500 kHz	300.000 Hz	850.99891	MHZ	-49.77 dBm	-81.11 dB	-26.31 dB
-12.000 KHZ	12 500 KHZ	300.000 Hz	851.01922	MHZ	-2.50 dBm	-34.41 dB	-6.46 dB
12.500 kHz	31.250 kHz	300.000 Hz	851.02553	MHz	-44.84 dBm	-76.18 dB	-21.38 dB
I I					Meas	suring (Managar) (19.08.2022 11:07:30
1.07.31 19 08 202	2						

Mask §90.691



15:41:37 27.10.2022



surement Method	Conducted	Τe	est Channel	860.012	25 MHz
nel Separation	12.5 kHz	M	odulation	Digital	
Agilent Spectrum Analyzer - 0 X T RF 50 9 Center Freq 860.01	2 AC Center 2500 MHz Center #IFGain:Low #Atten	SENSE:INT SOURCE OFF Freq: 860.012500 MHz ree Run Avg Hold 40 dB	ALIGNAUTO 04:03:35 PM Radio Std: d>10/10 Radio Devi	Aug 22, 2022 None ce: BTS	Frequency
10 dB/div Ref 40.1 Log 30.0 20.0 10.0 -10.0 -20.0 -40.0 -40.0	Amman And Amman	When the second se	Trought and and prove of the	Augharth	Center Freq 660.012500 MHz
Center 860 MHz #Res BW 300 Hz	#	/BW 1 kHz	Spar Sweep 6	n 50 kHz 380.7 ms	CF Step 5.000 kHz
Occupied Band	dwidth	Total Power	39.2 dBm	Auto	<u>o</u> Man
	7.712 kHz				Freq Offset
Transmit Freq Er	ror 80 Hz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	10.02 kHz	x dB	-26.00 dB		
MSG			STATUS		



Mask §90.691



15:43:16 27.10.2022



surement Method	onducted	Те	st Channel	868.8875 MH	z
nel Separation 1	2.5 kHz	Mo	odulation	Digital	
Agilent Spectrum Analyzer - Occu W T RF 50 Q Center Freq 868.8875	pied BW AC 500 MHz #IFGain:Low #Atten:	SENSE:INT SOURCE OFF Freq: 868.887500 MHz ee Run Avg Hold 40 dB	ALIGNAUTO 04:04:21PM Radio Std: N >10/10 Radio Devic	Aug 22, 2022 None Se: BTS	y
Ref Offset 2 10 dB/div Ref 40.00 00 000 20.0 000 10.0 000 10.0 000 10.0 000 10.0 000 40.0 000	1 dB dBm 	MAN	When a hand	Сепtеr 868.887500	Freq) MHz
-50.0 Center 868.9 MHz #Res BW 300 Hz	#\	/BW 1 kHz	Spar Sweep 6	n 50 kHz 880.7 ms 5.00	Step _{0 kHz}
Occupied Bandy	vidth 7.367 kHz	Total Power	40.2 dBm	<u>Auto</u> Freq O	Man offset
Transmit Freq Erro x dB Bandwidth	or 45 Hz 9.333 kHz	OBW Power x dB	99.00 % -26.00 dB		0 Hz
MSG			STATUS		

			Mas	sk D			
MultiView 🖽 B	3W-0 🕅 1w-	D 🕅 3W-I	Iw-I	X			
Ref Level 50.00 dBm	Offset 21.00 dB	Mode Auto FFT	(
1 Spectrum Emission	Mask			A			
Limit Check P<200 40 dBm		PASS					
30 dBm			ma	m			
20 dBm			M	h			
10 dBm			J.	7			
0 dBm		N	<i>.</i>	h			
-10 dBm							
-20 dBm		- /N			- V/-		
-30 dBm		11					
-40 dBm		M			M	Λ.	
CF 868.8875 MHz		d 1001 pts		6	5.25 kHz/	b. Are no lo	Span 62.5 kHz
2 Result Summary Sub Block A	Center	868.89 MHz	P	eak Power	31.14 dBm	RBW	300.000 Hz
Pange Low	Pange Un	DBW	Freq	uenar	Dower Abs	Dower Pel	None
-31.250 kHz	-12.500 kHz	300.000 Hz	868.874	91 MHz	-48.27 dBm	-79.41 dB	-24.61 dB
-12.500 kHz	-5.625 kHz	300.000 Hz	868.880	53 MHz	-2.98 dBm	-34.12 dB	-4.35 dB
5.625 KHZ 12.500 kHz	12.500 kHz 31.250 kHz	300.000 Hz	868.900	91 MHz	-44.48 dBm	-75.62 dB	-20.82 dB
][۸ (1easuring (Managar) (19.08.2022 11:11:48
L1:11:48 19.08.202	2						

Mask §90.691



15:44:01 27.10.2022



Measurement Method	Conducted	Test Channel	896.0125 MHz
Channel Separation	12.5 kHz	Modulation	Digital

Agilent Spectrum Analyzer - Occupied B	w				
⊠ T RF 50Ω AC Center Freq 896.012500 I	WHZ Center Trig: F	SENSE:INT SOURCE OFF	ALIGN AUTO 04:00:41P Radio Std	M Aug 22, 2022 None	Frequency
	#IFGain:Low #Atten	: 40 dB	Radio Dev	rice: BTS	
Ref Offset 21 dB 10 dB/div Ref 40.00 dBn	n				
20.0		WWW.			Center Freq
10.0	- A	- Why			030.0 12000 MI 12
-10.0	JW V	- Ma			
-30.0	Al .		Marke alle . On	h. h	
-40.0			- Marther Andrager	of of service	
Center 896 MHz #Res BW 300 Hz	#	VBW 1 kHz	Spa Sweep	an 50 kHz 680.7 ms	CF Step
Occupied Bandwidt	h	Total Power	39.7 d B m		<u>Auto</u> Man
	7.542 kHz				Freq Offset
Transmit Freq Error	154 Hz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	9.970 kHz	x dB	-26.00 d B		
MSG			STATUS		

MultiView 🖽 🖪 🎽 🖾	3W-0 🕅 1w-1	3W-1	Iw-1	X			v
Ref Level 50.00 dBm	Offset 21.00 dB	Mode Auto FFT					
1 Spectrum Emission	Mask				· · · · · · · · · · · · · · · · · · ·		●1Rm Max
Limit Check		PASS					
40 dpm							
40 ubin					100	2	1.1
20 40-							
30 UBM			No	Nord			
20.10			(1			
20 dBm			al a	Z			
			5	5			
10 dBm			1	1			
			1	2			
) dBm							
-10 dBm		ſ					
		1			4		
20 40-					In		
-20 0811		6			1		
)		
30 dBm-				1			
					N.		
-40 dBm	2000	and the			h can	2	
	mounting	mp			~~~~	manna	3
CF 896.0125 MHz	- 60.a _000	1001 pts			6.25 kHz/	V The Back	Span 62.5 kHz
Result Summary							
Sub Block A	Center	896.01 MHz	I	Peak Power	31.40 dBm	RBV	V 300.000 Hz
			1				None
Range Low	Range Up	RBW	Freq	uency	Power Abs	Power Rel	
-31.250 kHz	-15,000 kHz	300.000 Hz	895.995	AZ MUZ	-45.27 dBm	-70.67 dB	-26.8/ 08
-15.000 KHZ	-9.000 KHZ	300.000 Hz	896.003		-22.34 dBm	-33.74 ab	-10.74 0B
-9.000 KHZ	-0.800 KHZ	300.000 Hz	896.003	33 MH7	-9.50 ubiii	-40.07 dB	-15.07 dB
0.000 KHZ	15.000 KHZ	200.000 Hz	896.021	53 MH7	-24 95 dBm	-56 35 dB	-21 35 dB
15 000 kHz	31,250 VHz	300.000 Hz	896.078	866 MH7	-44.82 dBm	-76.23 dB	-28.43 dB
10,000 KHZ	01,200 KHZ	300.000112	0.01020			, 5125 GD	10.00 0000
					Me	easuring 🚺	14:04:52

14:04:53 19.08.2022



rement Metho							
el Separation	12.5 kHz			Modulatio	n	Digita	al
Agilent Spectrum Analyze	- Occupied BW	054					ſ
Center Freq 900	.987500 MHz #IFGain:Lov	Center Fro Trig: Free w #Atten: 40	eq: 900.987500 MH Run Avg dB	Iz Hold:>10/10	Radio Std: Radio Devi	Aug 22, 2022 None ce: BTS	Frequency
Ref C 10 dB/div Ref 4	ffset 21 dB 40.00 dBm	_					
20.0		WWW WWW	Many Marine				Center Freq 900.987500 MHz
-10.0							
-30.0 -40.0 -50.0	An An An An			M M M M M M M M M M M M M M M M M M M	www.ppp.wa/Yu	hand Mar	
Center 901 MHz #Res BW 300 Hz		#VB	W 1 kHz		Spai Sweep 6	n 50 kHz 580.7 ms	CF Step 5.000 kHz
Occupied Ba	andwidth		Total Power	39.0	dBm		<u>Auto</u> Man
	7.937	kHz					Freq Offset
Transmit Freq x dB Bandwid	Error th 10.0	109 Hz 67 kHz	OBW Power x dB	99 -26.0	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.0	109 Hz 67 kHz	OBW Power x dB	99 -26.1	.00 % 00 d B		0 Hz
Transmit Freq x dB Bandwid	1 Error th 10.4 3w-0 🖾 (197-0	109 Hz 67 kHz	OBW Power x dB	99 -26.1	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.4 3w-0 ∑ irr0 Offset 21.00 dB Mo	109 Hz 67 kHz EX IV-1 E IV-1 E IV-1 E	OBW Power x dB	99 -26.1 status	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.0 3W-0 Street Offset 21.00 dB Mo ask Inc.	109 Hz 67 kHz	OBW Power x dB	99 -26.1 STATUS	.00 % 00 dB		0 Hz ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Transmit Freq x dB Bandwid	Error th 10.0 3w-0 🖾 🗤-0 Offset 21.00 dB Mo	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % 00 dB		● 1Rm Max
Transmit Freq x dB Bandwid	Error th 10.0 3W*0 Immediate Offset 21.00 dB Mo ask Immediate	109 Hz 67 kHz	OBW Power x dB	99 -26.1	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % D0 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % 00 dB		● 1Pm Max
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwid MSG Msg Ref Level 50.00 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0	.00 % D0 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % D0 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % D0 dB	RB	0 Hz
Transmit Freq x dB Bandwid	Error th 10.4	109 Hz 67 kHz	OBW Power x dB	99 -26.0 STATUS	.00 % D0 dB		0 Hz
Transmit Freq x dB Bandwid	Error th 10.0	109 Hz 67 kHz	OBW Power x dB	999 26.0 STATUS STATUS 6.25 kHz/ rer 31.72 dBm c24.67 c22.76 c z5.51 c c -5.51 c	.00 % D0 dB	RB Power Rel 76.39 dB 54.47 dB 37.23 dB 37.23 dB	0 Hz ● 1Rm Max ● 1Rm Max Span 62.5 kHz W 300.000 Hz None ALimit - 28.59 dB - 19.47 dB - 12.23 dB - 12.23 dB - 12.38 dB

14:10:35 19.08.2022



Separation	12.5 kHz			Modulatio		Digita	
				modulatio	71	Digita	
Center Freq 901.	50 Ω AC 500000 MHz #IFGain:Lov	Center Fr Trig: Free W #Atten: 40	vse:INT SOURCE OFF req: 901.500000 Mi e Run Avg) dB	ALIGN AUTO Hz Hold:>10/10	04:02:00 PM Radio Std: 1 Radio Devic	Aug 22, 2022 None ce: BTS	Frequency
Ref O 10 dB/div Ref 4	ffset 21 dB I 0.00 dBm						
Log 30.0 20.0		MM	Why Why				Center Freq 901.500000 MHz
-10.0		M	- Mu				
-20.0		• 	<u> </u>	M			
-40.0 44644444444444444444444444444444444	Maprillon March M			www.www.w	handrynanardod	horen yuhit	
Center 901.5 MHz #Res BW 300 Hz	<u> </u>	#VE	SW 1 kHz		Spar Sweep 6	n 50 kHz 80.7 ms	CF Step 5.000 kHz
Occupied Ba	andwidth		Total Power	r 39.6	dBm	A	<u>luto</u> Man
	7.726	kHz				ſ	FreqOffset
Trancmit From	Frror	84 Hz	OBW Power	r 99	.00 %		0 Hz
x dB Bandwidt	th 9.6	58 kHz	x dB	-26.	00 dB		
	th 9.64	58 kHz	x dB	-26.	00 dB		
	sw-0 (2) 1w-0	∑ 3₩-1	x dB	-26.	00 dB		~
Msg	3₩0 ∑ 1₩0 3₩0 ∑ 1₩0 Offset 21.00 dB Mo	58 kHz	x dB	-26.	00 dB		्र • 18m Max
MBG	3w-0 Xw-0 Jw-0 Xw-0 Offset 21.00 dB Mo Jisk Image: State St	Strike 58 kHz (av.) de Auto FFT PASS	x dB	5pecbum 2	00 dB		⊽ ●1Rm Max
MISG MISG MISG MISG Ref Level 40.00 dBm Climit Check P<200	3W-0 X Jwr.0 X Jwr.0 Mo Jisk Image: Second secon	STILE 58 kHz 3w-1 de Auto FFT PASS	x dB	5pectrum 2	00 dB		v iRm Max
Maturiew B Msg Msg Ref Level 40.00 dBm 1 Spectrum Emission Ma Limit Check P<200	3W-0 Implementation 3W-0 Implementation Jffset 21.00 dB Moon Jffset Implementation	ESTINE 58 kHz		status	00 dB		⊽ ●1Rm Max
MSG MSG MSG Ref Level 40.00 dBm 1 Spectrum Emission Ma Limit Check 90 dBm 20 dBm 10 dBm 0 dBm	sw-b Sw-b sw-b Sw-b sw-b Sw-b offset 21.00 dB Moo	ESTINE 58 kHz de Auto FFT PASS		-26.			• 1Rm Max
Mission	3W-D StwrD JW-D StwrD	ESTINE 58 kHz ESTINE State Auto FFT PASS	x dB	-26.			v iRm Max
MISCINE Freq x dB Bandwidt MSC MISCINE Ref Level 40.00 dBm 1 Spectrum Enission Ma Limit Chick P<200	3W-0 3W-0 JW-0 3W-0 Offset 21.00 dB Mo	STILE 58 kHz (a Auto FFT PASS		status			v 1Rm Max
MSG MSG MSG MSG Ref Level 40.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -30 dBm	SW-D SW-D SW-D SW-D SW-D SW-D Offset 21.00 dB Mo	ESTINE 58 kHz de Auto FFT PASS		status			● IRm Max
MISG MISG MISG MISG MISG MISG Ref Level 40.00 dBm Climit Check P<200	3w-0 Sw-0 3w-0 Sw-0 Jarrow Mo	SS KHZ	x dB	status			v i Rm Max
Mission Mission Mission Mission Ref Level 40.00 dBm Ispectrum Emission Machine Limit Chicks P<200	3W-0 3W-0 3W-0 3W-0 Offset 21.00 dB Mo 3Sk Image: Skipper skipp	ESTINE 58 kHz ESTINE		-26.			• 1Rm Max
MSG MSG MSG Ref Level 40.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm	sw.b (S) (sw.b) Sw.b (S) (sw.b) Diffset 21.00 dB Mo SSK SSK Center 901.3	58 kHz 58 kHz de Auto FFT PASS PASS A A A A A A A A A A A A A	x dB	-26.		www.m.m.m.	
Misc Image: String Pred to a string pred to	3W-D SW-D 3W-D SW-D Just Mo Just Image: Stress of the stres of the stress of the stress of the stress of the st	58 kHz 58 kHz PASS PASS PASS PASS PASS PASS S0 MHz	x dB	-26.		MMMMM RBW	• 1Rm Max

13:23:55 26.10.2022



rement Method	Conducted		163	t Channe		00.012	
el Separation	12.5 kHz		Mod	dulation		Digital	
Agilent Spectrum Analyzer -	Occupied BW						
Center Freq 935.0	12500 MHz #IFGain:Low	Center Freq: 935.01 Trig: Free Run #Atten: 40 dB	URCE OFF AL 12500 MHz Avg Hold:>1	1GN AUTO 04:09 Radio 10/10 Radio	o Std: Non o Device: E	e 8TS	Frequency
Ref Off 10 dB/div Ref 40	set 21 dB 0.00 dBm						
20.0 10.0		we have have	1. 				Center Freq 935.012500 MHz
-10.0			M. M.				
-20.0	ANT		- M				
-40.0 <mark>-40.0 -40.0</mark>	May Apple March March 1		°ң _и ,	Mr. Marga	MMWW	n Mum	
Center 935 MHz #Res BW 300 Hz		#VBW 1kF	łz	Swe	Span 50 eep 680.) kHz .7 ms	CF Step 5.000 kHz
Occupied Bar	ndwidth	Total I	Power	39.8 dBn	n	Aut	<u>o</u> Man
1	7.691 kł	Ηz					Freq Offset
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 I	Hz OBW	Power	99.00 % -26.00 di	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 I	Hz OBW	Power	99.00 % -26.00 dł	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 l	Hz OBW	Power	99.00 % -26.00 dl	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB	Power	99.00 % -26.00 dl	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB	Power	99.00 % -26.00 dB	% B		0 Hz ⊽ ⊇IRm Max
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB w.1 w.1 w.1 w.1 w.1 w.1 w.1 w.1	Power E	99.00 % -26.00 dB	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB	Power E	99.00 %	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k #*8 <u>(me) (X)</u> fset 21.00 dB Mode A k	Hz OBW Hz x dB	Power E	99.00 % -26.00 dB	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB W-1 W-1 W-1 W-1 W-1 W-1 W-1 W-1	Power	99.00 %	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB w.t X dB w.t Wort wto FFT PASS	Power E	99.00 % -26.00 dk	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB	Power	99.00 % -26.00 dB	% B		0 Hz
Transmit Freq I x dB Bandwidth	Error 140 n 9.809 k	Hz OBW KHz x dB	Power	99.00 %	% B		0 Hz
Transmit Freq I x dB Bandwidth MSG MSG Metuwee: 18 (20) as Ref Level 50.00 dBm Of Ispectrum Emission Mass Limit Check 40 dBm 0 20 dBm 0 10 dBm 0 -10 dBm -0 -30 dBm -0 -40 dBm -0 Sub Block A -0	Error 140 n 9.809 k ************************************	Hz OBW Hz X dB	Power	99.00 % -26.00 dB	% B	RBW 3	0 Hz
Transmit Freq I x dB Bandwidth	Error 140 9.809 H	Hz OBW Hz x dB	Power	99.00 % -26.00 dk	% B		0 Hz

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el Separation	12.5 kHz			Modulatio	on	Digit	al
Agilent Spectrum Analyzer	Occupied BW	1					
Center Frea 939.9	987500 MHz	Center Fr	ISE:INT SOURCE OFF eq: 939.987500 M	L ALIGNAUTO	01:23:30 PM Radio Std:	Aug 17, 2022 None	Frequency
	#IECaind out	Trig: Free #Atten: 40	Run Avg ∣dB	Hold:>10/10	Radio Devi	ce: BTS	
	#iFGail.LUW	in iteen. 40			Than berr		
10 dB/div Def /	0 00 dBm						
Log			A				
30.0		Martin	Y have been a second				Center Fred
20.0		1NYN .	- <u>M</u>				939.987500 MHz
10.0		A.	Y				
10.00	N		W.				
-10.0	all		Y	M.			
-20.0	WW.			. M			
10.0 Maril M Conward	14MA Warentown			Morymony	when the destroy	mymy	
-50.0							
Center 940 MHz		#\/P)A(1 k∐≂		Spa Sween	n 50 kHz	CF Step
#Res BW 500112		#¥U	WY TRIIZ		Sweep (500.7 ms	5.000 kHz
Occupied Ba	ndwidth		Total Power	r 40. 4	dBm		Adto Mar
	7,740	kHz					F === 0.55 = 1
							Frequise
	_			~ ~			0 🗆 -
Transmit Freq	Error	68 Hz	OBW Powe	r 99	.00 %		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz 	OBW Powe x dB	r 99 -26. status	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61 wo <u>S</u> <u>1w-B</u> (ffset 21.00 dB Mode	68 Hz 4 kHz 399:4 2 e Auto FFT	OBW Powe x dB	r 99 -26. status	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61 w-0 (Internet of the second sec	68 Hz 4 kHz a kHz a Auto FFT	OBW Powe x dB	r 99 -26. 	.00 % 00 dB		0 Hz ⊽ ■ 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz a kHz e Auto FFT	OBW Powe x dB	r 99 -26. STATUS	.00 % 00 dB		● 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26. STATUS	.00 % 00 dB		● 1Rm Max
Transmit Freq x dB Bandwidtl MSG MSG MsG Ref Level 50.00 dBm O 1 Spectrum Emission Mas Limit Check 40 dBm 30 dBm	Error h 9.61	68 Hz 4 kHz e Auto FFT	OBW Powe x dB	r 99 -26. STATUS	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl MSG MSG MSG MSG Ref Level 50.00 dBm O 1 Spectrum Emission Mas Limit Check 40 dBm 30 dBm 20 dBm	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26. 	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl MSG MSG Ref Level 50.00 dBm O 1 Spectrum Emission Mas Limit Chdck 40 dBm 20 dBm 20 dBm 10 dBm	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26.	.00 % 00 dB		• 1Rm Max
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26.	.00 % 00 dB		
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 99 -26.	.00 % 00 dB		0 Hz
Transmit Freq x dB Bandwidtl	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26.	.00 % 00 dB	vmha.,	0 Hz
Transmit Freq x dB Bandwidtl MSG MSG Ref Level 50.00 dBm 10 dBm 10 dBm -20 dBm -30 dBm -20 dBm -30 dBm -20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -20 dBm -20 dBm -30 dBm <	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26. status 6.25 kHz/ wer 31.93 dBm	.00 % 00 dB	V ^M ha	0 Hz
Transmit Freq x dB Bandwidtl MSG MSG Ref Level 50.00 dBm O 1 Spectrum Emission Mes Limit Check 40 dBm 20	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26. status 6.25 kHz/ wer 31.93 dBm	00 % 00 dB	V ^M ha Re Power Rel	0 Hz
Transmit Freq x dB Bandwidtl MSG MSG Ref Level 50.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -20 dBm -30 dBm -30 dBm -40 dBm -20 dBm -30 dBm -30 dBm -40 dBm -20 dBm -30 dBm -31.250 kHz -15.00 kHz	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26. status 6.25 kHz/ wer 31.93 dBm 12 -44.46 Power	00 % 00 dB	200 Power Rel 200 Po	0 Hz
Transmit Freq x dB Bandwidtl MSG MSG Ref Level 50.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -20 dBm -30 dBm -40 dBm -20 dBm -30 dBm -30 dBm -40 dBm -30 dBm -40 dBm -50 dBm -6 8.00 kHz -9.000 kHz -9.000 kHz -9.000 kHz -9.000 kHz	Error h 9.61	68 Hz 4 kHz	OBW Powe x dB	r 999 -26. status 6.25 kHz/ wer 31.93 dBm c -44.46 z -1.72 z -1.72 z -1.72	Abs	Power Rel 76.39 dB 33.65 dB 33.65 dB	0 Hz

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rement Method	Conducted		Test Chai	IIIEI	940.5	MHZ
el Separation	12.5 kHz		Modulatio	n	Digita	l
Agilent Spectrum Analyzer	- Occupied BW	SENSE INT SOURCE OF		04:06:27.PM Aug	122 2022	
Center Freq 940.	500000 MHz	Center Freq: 940.500000 M Trig: Free Run Av	MHz ///10/10	Radio Std: Nor	1e	Frequency
	#IFGain:Low	#Atten: 40 dB		Radio Device:	BTS	
Ref Of	fset 21 dB					
					—	
20.0		whynywhy				Center Freq 940.500000 MHz
10.0					—- -	
0.00						
-10.0			M _I			
-30.0			Phul .			
-40.0 Anna Anna Anna	man and an and a second		" Whore have have	why alman w	Myrana	
-50.0						
Center 940.5 MHz				Span 5	0 KHz	CF Step
#Res BW 300 HZ		#VBW 1 KHZ		Sweep 680	0.7 ms	5.000 kHz
Occupied Ba	ndwidth	Total Powe	er 38.8	dBm	Ê	ato mali
	7.756 kH	IZ				Freq Offset
Transmit Frag			er 99.	00 %		0 Hz
Transmit Freq	Error 112		••••••			
x dB Bandwidt	Error 112 h 10.09 ki	Hz x dB	-26.0	0 dB		
	Error 112 h 10.09 kl	Hz x dB	-26.0	0 dB		
MSG MSG MSG MSG MSG MSG MSG MSG	Error 112 h 10.09 kl	Hz x dB	-26.0 STATUS	0 dB		⊽ ● 1Rm Max
MSG MSG MSG Ref Level 40.00 dBm OI Spectrum Emission Mass Limit Check P<200	Error 112 h 10.09 kl	HZ X dB	-26.0 STATUS	0 dB		⊽ IRm Max
Msg Msg Ref Level 40.00 dBm I Spectrum Emission Mas Limit Check 90 dBm	Error 112 h 10.09 kl	Hz x dB	-26.0 STATUS	0 dB		● 1Rm Max
Misc Misc Metuview E Ref Level 40.00 dBm 1 Spectrum Emission Mass Limit Check P<200	Error 112 h 10.09 kl	HZ X dB	-26.0 STATUS	0 dB		€ 1Rm Max
Miss Miss Miss Ref Level 40.00 dBm Dimit Check Pre-200 30 dBm 10 dBm	Error 112 h 10.09 kl	Hz x dB	-26.0	0 dB		o IRm Max
Mailsmit Preq x dB Bandwidt MSG Msg PefLevel 40.00 dBm Ol 1 Spectrum Emission Mas Limit Check P<200	Error 112 h 10.09 kl	Hz x dB	-26.0			● 1Rm Max
MSG MSG Ref Level 40.00 dBm OI 1 Spectrum Emission Mess Limit Check P<200	Error 112 h 10.09 kl	Hz X dB	-26.0	0 dB		• 1 Rm Max
Miss Msg Ref Level 40.00 dBm Dimit Chick P<200	Error 112 h 10.09 kl	Hz x dB	-26.0	0 dB		. IRm Max
Mainstrikt Preq x dB Bandwidt MSG Msg Ref Level 40.00 dBm OI 10 dBm 20 dBm 10 dBm -20 dBm	Error 112 h 10.09 kl	Hz x dB	-26.0			● 1Rm Max
Mailsmith Preq x dB Bandwidt Msg Msg Ref Level 40.00 dBm OI ISpectrum Emission Mas Limit Check P<200	Error 112 h 10.09 kl	Hz x dB	-26.0			● 1Rm Max
X dB Bandwidt X dB Ban	Error 112 h 10.09 kl w.o (∑) 100 kl w.o (∑) 100 kl ifset 21.00 dB Mode Aut kl l l l l l l l l l l l l l	Hz x dB	-26.0			. IRm Max
Mailsmithered x dB Bandwidt MSG MsG Ref Level 40.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm	Error 112 h 10.09 kl	Hz x dB	-26.0			●1Rm Max
Mailstille Freq x dB Bandwidt MSG Ref Level 40.00 dBm 10 dBm 20 dBm 10 dBm -20 dBm -30 dBm -30 dBm -20 dBm	Error 112 h 10.09 kl	Hz x dB	-26.0			● 1Rm Max
Mailsmit Preq x dB Bandwidt Msg Ref Level 40.00 dBm Ol 1 Spectrum Emission Mas Limit Check P<200	Error 112 h 10.09 kl	Hz X dB	-26.0		RBW	الله المعنى المعنى المعنى المعنى المعنى المعنى المعنى
Inditisting Prequences x dB Bandwidt MSG Image: Second Sec	Error 112 h 10.09 kl w.o (∑) w.o (∑ () ifset 21.00 dB Mode Aut ifset 20.000 dB Mo	Hz x dB	-26.0		RBW pwer Rel	

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Note: All the modes had been tested, but only the worst data recorded in the report.



6.10. TRANSMITTER FREQUENCY BEHAVIOR

LIMITS

	Maximum fraguanau	All equip	ment
Time intervals ^{1, 2}	difference 3	150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for	Equipment Designed to Operat	e on 25 kHz Channels	
t1 ⁴ t2 t3 ⁴	± 25.0 kHz ± 12.5 kHz ± 25.0 kHz	5.0 ms 20.0 ms 5.0 ms	10.0 ms 25.0 ms 10.0 ms
Transient Frequency Behavior for	Equipment Designed to Operate	on 12.5 kHz Channels	
t ₁ ⁴ t ₂ t ₃ ⁴	± 12.5 kHz ± 6.25 kHz ± 12.5 kHz	5.0 ms 20.0 ms 5.0 ms	10.0 ms 25.0 ms 10.0 ms
Transient Frequency Behavior for	Equipment Designed to Operate	on 6.25 kHz Channels	
t1 ⁴ t2	± 6.25 kHz ± 3.125 kHz + 6.25 kHz	5.0 ms 20.0 ms	10.0 ms 25.0 ms 10.0 ms

 1 t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing. t₁ is the time period immediately following t_{on}. t₂ is the time period immediately following t₁. t₃ is the time period from the instant when the transmitter is turned off until t_{off}.

to find the instant when the 1 kHz test signal starts to rise. ² During the time from the end of t₂ to the beginning of t₃, the frequency difference must not exceed the limits specified in § 90.213.

 ³ Difference between the actual transmitter frequency and the assigned transmitter frequency.
⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

ton: The switch-on instant ton of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

t1: period of time starting at ton and finishing according to above 11.1

t2: period of time starting at the end of t1 and finishing according to above 11.1

toff: switch-off instant defined by the condition when the output power falls below 0,1 % of the full output power (-30 dBc).

t3: period of time that finishing at off and starting according to above 11.1





TEST PROCEDURE

1) Set on Signal Generator with the assigned center frequency, internal 1 kHz FM tone. FM Deviation: Analog 25 kHz Channel Spacing = 25 kHz Analog 12.5 kHz Channel Spacing = 12.5 kHz

2) Turn on 50 kHz high pass filter and 15 kHz low pass filter on modulation analyzer.

3) Supply sufficient attenuation ATT to provide the output power of \leq -11dBm into power meter when UUT is keying up.

4) Note the power level on power meter and dekey the UUT.

5) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.

6) Connect the output to modulation analyzer.

7) Set the horizontal sweep rate on the storage oscilloscope to 10 milliseconds per division and adjust the display to continuously view the 1000 Hz. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at 4 divisions vertically centered on the display.

8) Reduce 30dB attenuation and transmit the radio to get the trigger line.

9) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.3 °C	Relative Humidity	66 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 4.5 V

RESULTS



Transmitter Frequency Behavior @ 12.5 kHz Channel Separation--Off to On

MultiView	8 Spectrum	Analog D	emod 🖾				
Ref Level 40 Att TRG:IEP(17M	0.00 dBm Offset 29 dB AQT Hz) YIG Bypass	t 21.00 dB 100 ms DBW 25 kH	z Freq 851.0125 MHz				
1 FM Time Do	omain					1 AP Clrw DC	Ref: 0.00 Hz
9.875 Kmz							
ф.25 кнр 							
3'125 <fz< td=""><td></td><td></td><td></td><td>٨</td><td></td><td></td><td></td></fz<>				٨			
O HIZ							
-3.125 KHZ			AND SHATTEN				
-6.25 kHz							
-9.375 kHz							
-22.5 KH2	****	****					
CF 851.0125 WEIGH	MHz HT CCITT		1001	pts			10.0 ms/
4 Result Sum	mary						
ENA	+Peak	Power 25.24 dBm -Peak	±Peak/2	RMS	Mod. Freq.	/ Hz SINAD	THD
FIVI	12.022 KHZ	-12.028 KHZ	12.823 KHZ	0.9930 KHZ	337.33 HZ	Course and	17.08.2022
L		Andlog Del	mou, waiting for trigger		Measuring	AND DESCRIPTION OF TAXABLE PARTY.	15:54:03

15:54:04 17.08.2022



MultiView	Spectrum	Analog Dem	lod 🖾				
Ref Level 4 Att	40.00 dBm Offset 2 29 dB AOT	1.00 dB 100 ms DBW 25 kHz	Freg 851.0125 MHz				
TRG:IFP(17	MHz) YIG Bypass						
LFM Time [Domain					1AP Clrw DC Ref:0	1.00 Hz
12.5 kHz				hamman	11111111111111		
2 375 kHz							
5.575 KH2							
COT LUE							
5.25 KHZ							
3.125 kHz							
						14. HA 14. 19	UT N
+++2			·····	1			111111
				3 II II II II I			
-3.125 kHz							11111
					위 마시에, 서머, 네이		
-6.25 kHz						to a state of the	++++++
							RUD
9.375 kHz							
					4111411141114		
-12.5 kHz				<u> </u>	╶╀╃┞┼╅╃╿┼╉┦╵┤┫┦		1111
CF 851.012	5 MHz		1001	pts		10	0.0 ms
WEIG	GHT CCITT						
1 Result Su	mmary						
	- Carrier Po	Dook	+Dook/2	DMC (Mod From		JD.
FM	13.381 kHz	-12.862 kHz	13.121 kHz	9.0247 kHz	999.71 Hz		
	Y	Analog Demod	l: Waiting for Trigger		Measuring	17.08	.2022
		Androg Demou	and an angentin			16:	00:01

END OF REPORT