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Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK Carrier Level



Band Edge

Spectrum Anal Swept SA	yzer 1	+					Frequency	· · · 😤
KEYSIGHT RL +>-+	Input: RF Coupling: AC Align: Off	Input Z: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Pe Avg Hold: 100/10 Trig: Free Run		Center Frequency 2.400000000 GHz	Settings
1 Spectrum Scale/Div 10 c	, 1B		Ref LvI Offset 1.0 Ref Level 20.00 c		Mkr1 2	2.400 000 GHz -51.10 dBm	Span 10.0000000 MHz Swept Span	
Log 10.0 0.00 -10.0							Zero Span Full Span	
-20.0 -30.0 -40.0							Start Freq 2.395000000 GHz	
-50.0 -60.0 -70.0						~~~~~~	Stop Freq 2.40500000 GHz	
Center 2.4000 #Res BW 100			#Video BW 300	kHz	Swee	Span 10.00 MHz p 1.00 ms (601 pts)	AUTO TUNE CF Step	
5 Marker Table	v						1.000000 MHz	
Mode 1 N 2 3 4 5 6	Trace Scale 1 f	X 2.400 000 GHz	Y -51.10 dBm	Function Fu	inction Width	Function Value	Man Freq Offset 0 Hz X Axis Scale Log	
ר ד	C	Dec 06, 2024 2:55:12 PM	\mathbb{R}				Signal Track (Span Zoom)	

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Swep			•	+						\$	Frequency	 ※
KE) RL	′SIGH1 ·≁·	Input: I Coupli Align: (ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C		0∕/100 n	1 2 3 4 5 6 M WW WW W P N N N N N		er Frequency 5000000 GHz	Settings
1 Spe	ectrum		T		Ref Lvl Offset 1.	00 dB	Mł		15 0 GHz		000000 GHz	
Scal Log 10.0	e/Div 10 (B			Ref Level 20.00	dBm		-60 _1	.80 dBm		Swept Span Zero Span	
0.00											Full Span	
-20.0 -30.0									0L1 -16.70 dBm	Start 30.0	Freq 00000 MHz	
-40.0 -50.0 -60.0		ntago (constant)			2) Hendlightlangende Angewierer	and a first and a start of the	المرورية فالإيران	Maringan ing ing day taur	Stop 3.00	Freq 0000000 GHz	
	0.030 GI BW 100				#Video BW 300	kHz			p 3.000 GHz s (4001 pts)		AUTO TUNE	
-	rker Table	KHZ	v				Swee	•p ~285 m	s (4001 pts)	CF SI 297.	ер 000000 MHz	
	Mode	Trace	Scale	X 2.402 3 GHz	Y 3.832 dBm	Function	Function Width	Functio	on Value		Auto Man	
		1	f	1.515 0 GHz						Freq 0 Hz	Offset	
4 5 6											s Scale Log Lin	
ł	ょ	3		2:54:17 PM	\square					Signa (Span	al Track Zoom)	

Spect Swep	rum Anal t SA	yzer 1	- - -	-						₽	Frequency	- * 崇
KEY RL	SIGHT	Input: F Couplir Align: (ng: AC	Input Z: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Of		10 n	123456 MWWWWW PNNNNN		requency 00000 GHz	Settings
1 Spe	ctrum		v	,	Ref LvI Offset 1.0	00 dB	Mkr		95 0 GHz		000 GHz	
Scale Log 10.0	e/Div 10 c	B			Ref Level 20.00 c	IBm		-49).28 dBm		ept Span Span	
0.00										Fu	ıll Span	
-20.0 -30.0 -40.0								<u>2</u>	DL1 -16.70 dBm	Start Fre 3.00000	q 0000 GHz	
-50.0 -60.0	مورور _و مراد وماد	*****		اليوقي ويتقول والمسترية والمسترية والمترومة والمقافقة	أدادي ويبارد وإحلا والمراجع وأدرر ومرتبع	يوليف ^{ي والم} ارية المدون والمدور المدور الم	*****	and the second second	a a construction of the second se	Stop Fre 25.0000	q 00000 GHz	
-70.0 Start	3.00 GH	2			#Video BW 300	kHz		Sto	p 25.00 GHz			
#Res	BW 100	kHz					Sw	eep ~2.12	s (4001 pts)	Sector Control Control		
5 Mar	ker Table		•							2.20000 Auto	0000 GHz	
	Mode	Trace	Scale	X	Y	Function	Function Width	Functi	on Value	Man		
1	N N	1	f f	24.769 0 GHz 21.095 0 GHz						Freq Offs	set	
3 4										0 Hz		
5 6										X Axis So Log Lin		
	ょ	3	- ?	Dec 06, 2024 2:54:48 PM	$\square \triangle$					Signal Tr (Span Zoo		

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Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK Carrier Level



Spec Swep	rum Anal t SA	yzer 1	•	+						\$	Frequency	- 1 😤
KEY RL	′SIGHT -≁-	Input: F Couplir Align: C	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C		0/100	123456 MWWWW PNNNNN	1.5150	Frequency 00000 GHz	Settings
	ctrum e/Div 10 d	B	v		Ref LvI Offset 1. Ref Level 20.00 (M		515 0 GHz 0.78 dBm		0000 GHz ept Span	
Log 10.0								∲ 1		Zer	ro Span	
-10.0 -20.0 -30.0									DL1 -17.43 dBm	Start Fre	ull Span eq 000 MHz	
-40.0 -50.0 -60.0	agent lands at 10			and the second second	2	بالتاوية والمعاريات	an a	,	ter Personal States of the	Stop Fre 3.0000	eq 00000 GHz	
	0.030 GI				#Video BW 300	kHz			op 3.000 GHz		TO TUNE	
	BW 100 ker Table	кнz	v				Swe	ep ~285 i	ms (4001 pts)	Sector Sector Sector	0000 MHz	
1 2 3 4 5 6		Trace 1 1	Scale f	 X 2.440 9 GHz 1.515 0 GHz 	Y 3.112 dBm -60.78 dBm	Function	Function Width	Func	tion Value	Aut Ma Freq Off 0 Hz X Axis S Loq Lin	n fset Scale 9	
	5	3		Pec 06, 2024 2:59:55 PM	$\square \triangle$					Signal T		

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Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Carrier Level

Spectrum Anal Swept SA	yzer 1	+					Frequency	, 「影
KEYSIGHT RL +>-+	Input: RF Coupling: AC Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Powe Avg Hold: 100/100 Trig: Free Run	r 123456 MWWWWW PNNNNN	Center Frequency 2.480000000 GHz	Settings
1 Spectrum	•		Ref LvI Offset 1.0	00 dB	Mkr1 2.4	80 090 GHz	Span 3.00000000 MHz	
Scale/Div 10 c	iB		Ref Level 20.00 d	IBm		2.75 dBm	Swept Span Zero Span	
0.00							Full Span	
-20.0 -30.0							Start Freq 2.478500000 GHz	
-40.0 -50.0 -60.0							Stop Freq 2.481500000 GHz	
-70.0 Center 2.4800	00 GHz		#Video BW 300	kHz		Span 3.000 MHz	AUTO TUNE	
#Res BW 100	kHz					.00 ms (601 pts)	CF Step 300.000 kHz	
5 Marker Table Mode	Trace Scale		Y	Function Fu	unction Width Fu	nction Value	Auto Man	
1 N 2 3	1 f	2.480 090 GHz	2.754 dBm				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	
15	C -	2 Dec 06, 2024 3:06:39 PM	$\square \triangle$				Signal Track (Span Zoom)	

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Band Edge



Spect Swep	rum Anal t SA	yzer 1	•	+						₽	Frequency	- 7 😤
KEY RL	SIGHT .≁·	Input: F Couplir Align: A	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C		0/100	1 2 3 4 5 6 M WWWW P N N N N N	1.515	r Frequency 5000000 GHz	Settings
1 Spe Scale	ctrum /Div 10 c	iB	•		Ref LvI Offset 1.0 Ref Level 20.00 d		M		515 0 GHz 8.90 dBm		000000 GHz Swept Span	
Log 10.0 0.00								_ ∂ 1			ero Span	
-10.0 -20.0									DL1 -17.25 dBm	Start F		
-30.0 -40.0 -50.0					2					Stop F	A CONTRACTOR OF A CONTRACTOR OF A	
-60.0 -70.0	, i și an de cata în const	en fan in in en en en		an a	www.ea.ilystation	الانداري ورود علي الإستان ال	y de may a bil abai yann y ngo yang bang si gangka aba	usplanovallose	ner men forder i Lingen a _{nde} gester i gester		0000000 GHz	
#Res	0.030 GH BW 100				#Video BW 300	kHz	Swe		op 3.000 GHz ns (4001 pts)	CF St		
5 Mar	ker Table Mode	Trace	Scale	x	Y	Function	Function Width	Func	tion Value	A	luto Man	
1 2 3	N N	1 1	f f	2.480 3 GHz 1.515 0 GHz	2.568 dBm -58.90 dBm					Freq (0 Hz	Offset	
4 5 6										L	s Scale .og .in	
H	5	3		Dec 06, 2024 3:07:26 PM						Signa (Span	l Track Zoom)	

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Figure 28: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, GFSK Carrier Level

Spectrum A Swept SA	Analyz	er 1	+											Frequency	· 🛞
KEYSIG RL ↔	<u> </u>	nput: RF Coupling: AC Align: Auto	C		50 Ω ons: Off ef: Internal	#Atten: 30 dB Preamp: Off				Avg Type: Lo Avg Hold: 10 Trig: Free Ri	00/100	1 2 3 4 5 6 M WW WW W P N N N N N		r Frequency 000000 GHz	Settings
1 Spectrum Scale/Div		v				ef LvI Offset ef Level 20.0				Mk		1 00 GHz .24 dBm	100.0	00000 MHz	
	TO UE						1							wept Span ero Span	
0.00 -10.0							IAAAAA TTTTT							Full Span	
-20.0 -30.0 -40.0													Start F 2.391	oooooo GHz	
-50.0	mm	4										hanne	Stop F 2.491	req 000000 GHz	
-70.0	4100	GHz				#Video BW 3	00 kH	z			Spa	n 100.0 MHz	A		
#Res BW 1 5 Marker Ta		Hz								Si		ms (601 pts)	CF Ste 10.00	ep 10000 MHz	
Mod	de 1	Trace Scal	e	x		Y		Functi	on Fu	nction Width	Functi	on Value		uto Ian	
1 N 2 3		1 f		2.44	1 00 GHz	4.243 dB	m						Freq (0 Hz	Offset	
4 5 6														Scale og in	
15) (2	?		6, 2024 40 PM	\mathbb{D}							Signal		

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Band Edge(Low)



Band Edge(High)

Spectrun Swept S		zer 1	•	+								\$	Frequency	- 1 🛞
KEYSI RL	GHT ·≁·	Input: R Couplin Align: A	g: AC		50 Ω ions: Off ef: Internal	#Atten: 40 dB Preamp: Off	Gate: IF Gai	Best Wide Off n: Low ack: Off	Avg Type: Lo Avg Hold: 10 Trig: Free Ru	0/100	123456 MWWWWW PNNNNN	2.483	r Frequency 3500000 GHz	Settings
1 Spectru Scale/Di			•			Ref LvI Offset 1 Ref Level 30.00			Mkr		500 GHz 8.93 dBm		000000 MHz	
	14 10 0	-	. 1				, abiii						wept Span ero Span	
10.0	~	F	2										Full Span	
-10.0		\mathbf{Y}	مر	+							DL1 -15.11 dBm	Start F 2.478	Freq 3500000 GHz	
-30.0				A A A A A A A A A A A A A A A A A A A	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	2			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Stop F 2.488	Freq 8500000 GHz	
-60.0	2.48350	0 GHz				#Video BW 30	0 kHz			Spa	an 10.00 MHz	A		
#Res BV		Hz							Sv		ms (601 pts)	CF St 1.000	ep)000 MHz	
5 Marker N 1 2 3 4 5 6		Trace 1 1	Scale f f		(000 GHz 500 GHz	Y 4.893 dBm -48.93 dBm		ion Fu	unction Width	Func	ion Value	A N Freq (0 Hz X Axis	uto Man Offset s Scale .og	
	5	2			6, 2024 04 PM	ÐA							.in I Track Zoom)	

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Spect Swep	rum Anal t SA	yzer 1	•	+						\$	Frequency	
KEY RL	SIGH1 -≁-	Input: I Coupli Align: /	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Le Sig Track:	Avg Hold: 10 ow Trig: Free Ru	/100	1 2 3 4 5 6 M WWWWW P N N N N N		er Frequency 5000000 GHz	Settings
1 Spe			•		Ref Lvl Offset 1		M		515 0 GHz		000000 GHz	
Scale Log	e/Div 10 (dB			Ref Level 20.00	dBm			9.42 dBm		Swept Span Zero Span	
10.0 0.00 -10.0								1		Γ	Full Span	
-20.0 -30.0									QL1 -15.76 dBm	Start 30.0	Freq 00000 MHz	
-40.0 -50.0 -60.0			****	a a a a a a a a a a a a a a a a a a a		2	كمدموه وحرصة للمسود والجالي والروامي	ant side of a state		Stop 3.00	Freq 0000000 GHz	
-70.0 Start	0.030 GI	łz			#Video BW 30	0 kHz		St	op 3.000 GHz		AUTO TUNE	
	BW 100	kHz					Swe	ep ~285 r	ns (4001 pts)	CF S	tep 000000 MHz	
5 Mar	ker Table		۲							Condition of	Auto	
1	Mode N	Trace	Scale	X 2.414 2 GHz	Y 5.011 dBm	Function	Function Width	Func	tion Value		Man	
2	N	1	f	1.515 0 GHz						Freq 0 Hz	Offset	
3 4												
5 6											s Scale Log Lin	
	5	C		2:15:16 PM	\mathbb{D}					Signa (Span	al Track Zoom)	

Spect Swept	rum Anal SA	yzer 1	- T	-						₽	Frequency	- 湯
KEY RL ₩	SIGHT	Input: F Couplir Align: A	ig: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: O		/10	1 2 3 4 5 6 M WW WW W P N N N N N	Center Fr 14.00000 Span	equency 00000 GHz	Settings
1 Spe	ctrum		•		Ref LvI Offset 1.0	0 dB	Mk		172 0 GHz	22.0000	000 GHz	
Scale Log	/Div 10 c	B			Ref Level 20.00 d	Bm		-4	8.70 dBm		pt Span Span	
10.0 0.00 -10.0											li Span	
-20.0 -30.0 -40.0								-12-	DL1-15.76 dBm	Start Free 3.00000	1 0000 GHz	
-50.0 -60.0	*****			الجارية والجامع والمحرور والمحافظ والمحافظ	وموري والدر والمعادر والإيون		مىرىمىر ئىرىمى ئەتلەر ئىرىمىرى ئەتلەر ئىرىمىرى ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئەتلەر ئ	al St. Mai ja dan salar	and the second	Stop Fred 25.0000	l 00000 GHz	
	3.00 GH2 BW 100				#Video BW 300	kHz	Sw		op 25.00 GHz 2 s (4001 pts)	AUT CF Step	O TUNE	
5 Mar	ker Table		¥								0000 GHz	
1 2 3 4 5 6	Mode N N	Trace 1 1	Scale f f	X 24.670 0 GHz 21.172 0 GHz	Y -47.86 dBm -48.70 dBm	Function	Function Width	Func	tion Value	Auto Man Freq Offs 0 Hz X Axis Sc Log Lin	et	
	5	3	2	Dec 06, 2024 2:16:03 PM						Signal Tra (Span Zoo	ack m)	

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Figure 29: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, π /4-DQPSK Carrier Level

Spec Swep	trum Analj ot SA	yzer 1	•	E								Frequency	- 米
KEY RL	′SIGHT ·≁·	Input: F Couplir Align: (ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fa Gate: Of IF Gain: Sig Track	f Low	Avg Type: Lo Avg Hold: 10 Trig: Free Ru	0/100	1 2 3 4 5 6 M WW WW W P N N N N N		r Frequency 000000 GHz	Settings
	ectrum		•		Ref LvI Offset 1.0			Mk		1 17 GHz 6.73 dBm	100.0	00000 MHz	
Log	e/Div 10 c				Ref Level 20.00 c					5.73 UBIII		wept Span ero Span	
0.00		m	nghanghara	MmgrAlas Ada		Manghla	nhampy	in Antalyt	manfrold			Full Span	
-20.0 -30.0											Start P 2.391	req 000000 GHz	
-40.0 -50.0 -60.0		}								human	Stop F 2.491	req 000000 GHz	
-70.0 Cent	er 2.4410	0 GH7			#Video BW 300	kH7			Spa	n 100.0 MHz	A		
#Res	BW 100							Sv		ms (601 pts)	CF Ste	ер 0000 MHz	
5 Ma	rker Table		•								1.10100.0100	uto	
	Mode N	Trace	Scale f	X 2.441 17 GHz	Y 6.729 dBm	Function	n Fun	ction Width	Funct	ion Value	L	lan	
23											Freq (0 Hz	Offset	
4 5 6												Scale og in	
H	ょ	C	2	Dec 06, 2024 2:44:26 PM	\Box						Signal (Span 2	Track Zoom)	

Band Edge(Low)

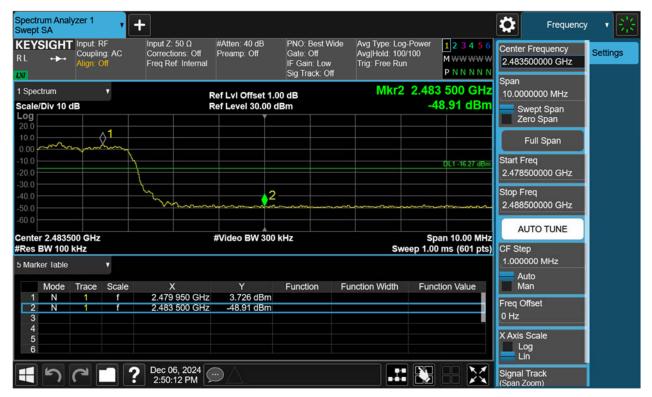
Spectru Swept	um Anal SA	yzer 1	•	+					Frequence	y v ∺
KEYS RL	SIGHT +→-	Input: F Couplin Align: C	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log Avg Hold: 100/ Trig: Free Run	100	2.40000000 GHZ	Settings
1 Spec	trum Div 10 d	10	•		Ref LvI Offset 1.0 Ref Level 20.00 d		Mkr2	2.400 000 GHz -52.82 dBm	10.0000000 1111 12	
							<u>لم</u>	-02.02 dBm	Swept Span Zero Span	
0.00							-ling		Full Span	
-20.0 -30.0								Select - Lorder Constant	Start Freq 2.395000000 GHz	
-40.0 -50.0 -60.0	- m.	~~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m			Stop Freq 2.405000000 GHz	1
-70.0 Center	2.4000	00 GHz			#Video BW 300	kHz		Span 10.00 MHz	AUTO TUNE	
#Res E 5 Mark	3W 100	kHz	v				Swe	ep 1.00 ms (601 pts)	CF Step 1.000000 MHz	
5 Marki	Mode	Trace	Scale		Y	Function F	unction Width	Function Value	Auto Man	
1 2 3	N N	1	f f	2.402 000 GHz 2.400 000 GHz					Freq Offset 0 Hz	
4 5 6									X Axis Scale Log Lin	1
H	5	3		2:49:16 PM	$\square \triangle$				Signal Track (Span Zoom)	

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Band Edge(High)



Swep			,	+						\$	Frequency	※
KEY RL	SIGHT	Input: F Couplir Align: (ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lo Sig Track: (0/100	123456 M\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.51	r Frequency 5000000 GHz	Settings
1 Spe	ctrum /Div 10 d	10	v		Ref LvI Offset 1.0		M		515 0 GHz 9.41 dBm	L	000000 GHz	
Log 10.0	/DIV 10 (ав 			Ref Level 20.00 c	iBm		 >1	9.41 UBIII		Swept Span Zero Span	
0.00								1			Full Span	
-20.0 -30.0										Start 30.00	Freq 00000 MHz	
-40.0 -50.0					2					Stop I	CONTRACTOR AND	
-60.0 -70.0	ang		And States and A	a yalayaa aharka ta ta ta dharafaa ta dharafa			<u>a handara kana kana kana kana kana kana kana k</u>				0000000 GHz	
	0.030 GH BW 100			· ·	#Video BW 300	kHz	Swe		op 3.000 GHz ns (4001 pts)	CF St		
5 Mar	ker Table		•							297.0	000000 MHz	
	Mode	Trace	Scale		Y	Function	Function Width	Func	tion Value		luto Ian	
1 2 3	N N	1	f	2.418 6 GHz 1.515 0 GHz						Freq (0 Hz	Offset	
4 5 6											s Scale .og .in	
	ょ	3		? Dec 06, 2024 2:46:37 PM	$\square \triangle$					Signa (Span	l Track Zoom)	

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Figure 30: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, 8-DPSK Carrier Level

Spectrum Analy Swept SA	/zer 1	+					Frequen	cy y 🔀
KEYSIGHT	Input: RF Coupling: AC Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Po Avg Hold: 100/10 Trig: Free Run		Center Frequency 2.441000000 GHz	Settings
1 Spectrum Scale/Div 10 d	v		Ref LvI Offset 1.0		Mkr1	2.403 17 GHz 6.62 dBm	Span 100.000000 MHz	
Log	1		Ref Level 20.00 d				Swept Span Zero Span	
0.00	pulsen sursh	hlphintheadlightely	hadrogh Angelhan	rmmalperhalik	᠂ᢣᢣ᠋ᠯᢩᢣᠬᢧᠯᢛᡪᢇᡐᡅᡂᡘᢢᠺ	mont	Full Span	
-20.0							Start Freq 2.391000000 GHz	
-40.0 -50.0 -60.0	ad a second s						Stop Freq 2.491000000 GHz	
-70.0 Center 2.4410	0 GHz		#Video BW 300	kH7		Span 100.0 MHz	AUTO TUNE	
#Res BW 100					Sweep	9.56 ms (601 pts)	CF Step 10.000000 MHz	
Mode	Trace Scale	x	Y	Function Fu	Inction Width	Function Value	Auto Man	
1 N 2 3		2.403 17 GHz	6.624 dBm				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	1
5	2 - 2	Dec 06, 2024 3:21:35 PM	$\Box \triangle$				Signal Track	

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Band Edge(Low)



Band Edge(High)

Spectrum Anal Swept SA	yzer 1	• +					Frequenc	y ▼ ∺
KEYSIGHT RL +>-+	Input: RF Coupling: A0 Align: Auto	Input Z: 50 C C Corrections: Freq Ref: Int	Off Preamp: Off	PNO: Best Wi Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 10 Trig: Free Ru	0/100	₩ 2.483500000 GHz	Settings
1 Spectrum Scale/Div 10 c	T		Ref LvI Offset 1 Ref Level 30.00		Mkr2	2.483 500 GH -47.84 dBr		4
						-41.04 0.01	Swept Span Zero Span	
10.0	$\sqrt{-1}$	۱ بر					Full Span	
-10.0 -20.0						DE114:36 dB	Start Freq 2.478500000 GHz	
-30.0 -40.0 -50.0		J. Marine		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Stop Freq 2.488500000 GHz	
-60.0 Center 2.4835	00 GH7		#Video BW 30	0 kHz		Span 10.00 Mł	AUTO TUNE	
#Res BW 100	kHz				Sv	veep 1.00 ms (601 pt		
5 Marker Table Mode	Trace Sca	ale X	Y	Function	Function Width	Function Value	Auto Man	
1 N 2 N 3	1 f 1 f	2.480 167 2.483 500					Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	
1	て	Pec 06, 20 3:27:47 P					Signal Track (Span Zoom)	1

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Spect Swep	rum Anal t SA	yzer 1	•	F								Marker	- · 🛞
KEY RL	′SIGHT +→-	Input: F Couplir Align: A	ng: AC	Input Z: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: F Gate: (IF Gair Sig Tra	Off 1: Low	Avg Type: Lo Avg Hold: 10 Trig: Free Ru	0/100	123456 MWWWWW PNNNNN	Marke		
1 Spe			•		Ref LvI Offset 1			M		515 0 GHz		r Frequency 000000 GHz	Settings
Scale Log 10.0	e/Div 10 o	iB			Ref Level 20.00	dBm			-	59.62 dBm	P	eak Search	Peak Search
0.00									1	DL1-13.38-dBm-		Next Peak	Pk Search Config
-20.0											N	ext Pk Right	Properties
-40.0						2						lext Pk Left	Marker Function
-60.0 -70.0			uthally hay as reasonable	and the second		nt the many late the	ماية ومعدة ترجيل مصرف	ale dan parte a la colo de la colo	Levenine		м	inimum Peak	Marker→
	0.030 GH BW 100				#Video BW 30	0 kHz		Suio		top 3.000 GHz ms (4001 pts)		k-Pk Search	Counter
	ker Table	<u>кп</u> 2	T					546	ep - 203	nis (4001 pts)		larker Delta	
1	Mode N	Trace	Scale	X 2.403 8 GHz	Y 6.094 dBm	Function	on Fu	nction Width	Fun	ction Value		Mkr→CF	
2	N	1	f	1.515 0 GHz	-59.62 dBm							lkr→Ref Lvl	
45											Contin Searc	iuous Peak h	
6				Dec 06, 2024							C	On Off	
	5	6		3:24:03 PM									

Spect Swept	rum Anal t SA	yzer 1	•	ł						*	Frequency	- * 崇
KEY RL	SIGHT	Input: F Couplir Align: A	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C)/10	123456 MWWWWW PNNNNN	Center Fi 14.0000 Span	requency 00000 GHz	Settings
1 Spe	ctrum		•		Ref LvI Offset 1.0	00 dB	Mk		95 0 GHz		000 GHz	
Scale Log	/Div 10 (dB			Ref Level 20.00 c	iBm		-49	9.35 dBm		pt Span Span	
0.00									DL1-13-38-dBm	Fu	ll Span	
-20.0 -30.0 -40.0								2	A	Start Free 3.00000	1 0000 GHz	
-50.0 -60.0				اور ابدر البر مقامور المقام الم			مىمۇرىلىيەت مەربىيىلىدىنە ^ر	and the second		Stop Free 25.0000	1 00000 GHz	
-70.0 Start	3.00 GH;	z			#Video BW 300	kHz		Sto	op 25.00 GHz	AUT	O TUNE	
	BW 100 ker Table	kHz	•				Sv		s (4001 pts)	CF Step 2.20000	0000 GHz	
Jiman										Auto		
1	Mode N N	Trace 1 1	Scale f f	X 24.620 5 GHz 21.095 0 GHz	Y -47.45 dBm -49.35 dBm	Function	Function Width	Funct	ion Value	Man Freq Offs 0 Hz		
3 4 5 6										X Axis Sc Log Lin	ale	
#	ょ	C	- ?	Dec 06, 2024 3:24:31 PM	\Box					Signal Tra (Span Zoo	ack m)	

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4.1.5 Radiated Spurious Emission

RESULT:

PASS

Test standard	:	FCC Part 15.247(d), 15.205, 15.209
Requirement	:	ANSI C63.10-2013, Clause 7.8.8
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	А
Ambient temperature	:	25.1°C
Relative humidity	:	47%

Notes

Test plots please refer to the annex document "SHE24110067-02CE DATA BR&EDR-TX EXHIBIT A".

1. For 9 kHz \sim 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.

2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.

3. All test mode had been pre-test. Only the worst mode data of GFSK&8DPSK-hopping-DH5

and GFSK&8DPSK_Low channel (below 1GHz) were recorded in the test report.

4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

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4.1.6 Band Edge (Restricted-band band-edge)

RESULT:

PASS

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Test standard	:	FCC Part 15.247(d), 15.205, 15.209
Requirement	:	ANSI C63.10-2013, Clause 7.8.6
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/High
Operation Mode	:	A.1
Ambient temperature	:	25.1°C
Relative humidity	:	47%

Notes

1. Test plots please refer to the annex document "SHE24110067-02CE DATA BR&EDR-TX EXHIBIT A".

2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

	TE	EST	-	REPORT		
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4.1.7 Hoppiı	ng Frequency Separat	ion				
RESULT:					PAS	SS
Test standard		:	FCC	Part 15.247(a)(1)		
Requirement		:	ANS	C63.10-2013, Clause 7.8.2		
			KDB	558074 D01 v05r02, Clause 2.2		
Kind of test site		:	Shiel	ded room		
Test setup						
Test Channel		:	Норр	ping		
Operation Mode		:	A.1.a	iv		
Ambient tempera	ature	:	22.2°	°C		
Relative humidit	у	:	32%			

Table 3: Hopping Frequency Separation

Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)		
GFSK	2441	1.010	0.9629		
π /4-DQPSK	2441	1.000	0.9140		
8-DPSK	2441	1.055	0.9007		

*Note: The systems operate with an output power no greater than 125mW (π /4-DQPSK, 8-DPSK).

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Figure 31: Hopping Frequency Separation, Hopping Mode, GFSK

Spect Swep	trum Anal It SA	yzer 1	,	+						₿	Frequency	- ※
KEY RL	′SIGHT +►+	Input: F Couplir Align: C	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best W Gate: Off IF Gain: Low Sig Track: Off	Avg Hold: 10 Trig: Free R	000/1000	123456 MWWWW PNNNNN		equency 0000 GHz	Settings
	ectrum		•		Ref LvI Offset 1.0		Mkr		005 GHz	Span 3.000000	000 MHz	
Log	e/Div 10 c	iB	▲2		Ref Level 20.00 c	dBm		1	3.70 dBm		ot Span Span	
10.0 0.00 -10.0		m	<u> </u>	-marine -marin	li	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			ann		l Span	
-20.0 -30.0										Start Freq 2.439500	 0000 GHz	
-40.0 -50.0 -60.0										Stop Freq 2.442500	0000 GHz	
	er 2.4410				#Video BW 300	kHz			an 3.000 MHz		O TUNE	
-	BW 100	kHz	-				#S	weep 1.00	ms (601 pts)	CF Step 300.000	kHz	
5 Mai	ker Table Mode	Trace	 Scale 	X	Y	Function	Function Width	Funct	ion Value	Auto Man		
1 2 3	N	1	f	2.441 015 GHz 2.440 005 GHz	3.748 dBm 3.696 dBm					Freq Offs 0 Hz	et	
4 5 6										X Axis Sc Log Lin	ale	
-	ょ	3		2:03:55 PM	\mathbb{D}					Signal Tra	nck m)	

Figure 32: Hopping Frequency Separation, Hopping Mode, *π*/4-DQPSK

Spect Swep	rum Anal <u>;</u> t SA	yzer 1	•	+							Frequency	- 湯
KEY RL	SIGHT • • ••	Input: F Couplir Align: A	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best V Gate: Off IF Gain: Low Sig Track: O	Avg Hold: 1 v Trig: Free F	000/1000	123456 MWWWWW PNNNNN	2.441	Frequency 000000 GHz	Settings
1 Spe	ctrum		•		Ref LvI Offset 1.0	00 dB	Mki	2 2.44	0 980 GHz	Span 3.000	00000 MHz	
	/Div 10 c	B			Ref Level 20.00 c	IBm			5.78 dBm		wept Span	
Log 10.0					2			<u> _ <u>0</u>1</u>		Ze	ero Span	
0.00	sur.	~~~~	mm		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	m	~~~~~			Full Span	
-20.0										Start F	req	
-30.0										2.439	500000 GHz	
-40.0 -50.0										Stop F	req	
-60.0										2.442	500000 GHz	
-70.0											UTO TUNE	
	r 2.4410				#Video BW 300	kHz			an 3.000 MHz			
_	BW 100	kHz					#5	weep 1.00) ms (601 pts)	CF Ste	p 00 kHz	
5 Mar	ker Table		V							And in cases	uto	
	Mode	Trace	Scale	X	Y	Function	Function Width	n Fund	tion Value		an	
1	N N	1	f f	2.441 980 GHz 2.440 980 GHz						Freq C	Iffset	
3										0 Hz		
4 5 6										X Axis Li	og	
	5	3		Dec 06, 2024 3:34:03 PM	\mathbb{D}					Signal		

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Figure 33: Hopping Frequency Separation, Hopping Mode, 8DPSK

Spect Swep	rum Anal t SA	yzer 1	·	+						\$	Frequency	- T 🛞
KEY RL	SIGHT • • ••	Input: F Couplir Align: A	ng: AC	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Best V Gate: Off IF Gain: Lov Sig Track: C	Avg Hold: 1 v Trig: Free R	000/1000	1 2 3 4 5 6 M WWWWW P N N N N N		r Frequency 000000 GHz	Settings
1 Spe			•		Ref LvI Offset 1.0		Mkr		960 GHz		00000 MHz	
Log	/Div 10 c	B	<u>^</u> 2	F	Ref Level 20.00 d	Bm			4.80 dBm		wept Span ero Span	
10.0	······	-mm	A	hand have	mon	كمرمدورالمعاه	mon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		Full Span	
-10.0 -20.0 -30.0 -40.0										Start F 2.439	Freq 9500000 GHz	
-50.0 -60.0										Stop F 2.442	req 2500000 GHz	
	er 2.4410				#Video BW 300	kHz			an 3.000 MHz		UTO TUNE	
	BW 100 ker Table	kHz					#S	weep 1.00	ms (601 pts)	CF St 300.0	ep 100 kHz	
5 Mar	Mode	Trace	Scale	x	Y	Function	Function Width	Fund	tion Value		uto Ian	
1	N N	1	f	2.441 015 GHz 2.439 960 GHz	5.051 dBm 4.802 dBm	runcion				Freq (
3 4 5											Scale	
6											og in	
H	5	3		Dec 06, 2024 3:18:30 PM						Signal (Span.	Track Zoom)	

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4.1.8 Number of Hopping Frequency

RESULT:

Relative humidity

Test standard:FCC Part 15.247(a)(1)(iii)Requirement:ANSI C63.10-2013, Clause 7.8.3
KDB 558074 D01 v05r02, Clause 2.2Kind of test site:Shielded roomTest setupTest Channel:HoppingOperation Mode:A.1.a.ivAmbient temperature:22.2°C

: 32%

Table 4: Number of Hopping Frequency

Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
GFSK	2400 – 2483.5	79	≥15
π /4-DQPSK	2400 – 2483.5	79	≥15
8-DPSK	2400 – 2483.5	79	≥15

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Figure 34: Number of Hopping Frequency, Hopping Mode, GFSK

Swept			+								\$	Frequency	· · · 】 ※
KEY RL	SIGHT ↔	Input: RF Coupling: AC Align: Off		: 50 Ω lions: Off ef: Internal	Atten: 30 dB Preamp: Off			Avg Type: Lo Avg Hold: 50 Trig: Free Ri	000/5000	1 2 3 4 5 6 MWWWWW P N N N N N		requency 60000 GHz	Settings
	ctrum /Div 10 d	₹ B			ef Lvi Offset ef Level 20.0						83.5000	0000 MHz ept Span	
Log 10.0	ለስለክለ	ንለጉብስብለ	ሳስብብስስ	กักการการ	กกกกกกก	ากกกกิกกิก	ากกกกกก	າດບານນານ	กกกกกก	በብብላለ	FL	o Span III Span	
-10.0						<u> </u>		11110111	11111111		Stop Fre	00000 GHz 9	
-30.0											AUT	100000 GHz	
-40.0 -50.0											CF Step 8.35000 Auto Mar	b	
-60.0 -70.0											Freq Offs 0 Hz	<u>7</u> 4	
	r 2.44175 BW 200 k				#Video BW 6	20 kHz		SI	Sp weep 2.00	an 83.50 MHz ms (835 pts)	X Axis So Log Lin		
	5			6, 2024 :04 PM							Signal Tr (Span Zoo	ack om)	

Figure 35: Number of Hopping Frequency, Hopping Mode, π /4-DQPSK

Spectrum Swept SA	n Analy. A	zer 1 🔻	+								₿	Frequency	- 湯
KEYSI RL	GHT ·≁·	Input: RF Coupling: AC Align: Off		: 50 Ω tions: Off ef: Internal	Atten: 30 dB Preamp: Off			Avg Type: Lo Avg Hold: 50 Trig: Free R	000/5000	123456 MWWWWW PNNNNN		er Frequency 1750000 GHz	Settings
1 Spectru Scale/Div		▼ 3			Ref Lvi Offse Ref Level 20.						83.5	000000 MHz Swept Span	
10.0 0.00	nun	wwwww	www.	ANATAL	entro the	nnmm	n n n n n n n n n n n n n n n n n n n	wwwww	www	Young		Zero Span Full Span	
-10.0											Start 2.40 Stop	0000000 GHz	
-20.0												3500000 GHz	
-40.0											Product of the	0000 MHz	
-60.0										<u></u>		Nuto Man Offset	
-70.0 Center 2. #Res BW					#Video BW 6	520 kHz		s		an 83.50 MHz ms (835 pts)		s Scale .og .in	
•	ว (06, 2024 :40 PM								I Track Zoom)	

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Figure 36: Number of Hopping Frequency, Hopping Mode, 8-DPSK

Spectrum Swept SA		zer 1 🗸	+									Frequency	- *
KEYSIC RL ·		Input: RF Coupling: AC Align: Auto		2: 50 Ω :tions: Off tef: Internal	Atten: 30 dB Preamp: Off	Gate IF G	: Fast : Off ain: Low īrack: Off	Avg Type: Lo Avg Hold: 50 Trig: Free Ru	00/5000	1 2 3 4 5 6 M WW WW W P N N N N N		Frequency 50000 GHz	Settings
1 Spectrum Scale/Div		▼ 3			Ref LvI Offset Ref Level 20.0						83.500	0000 MHz rept Span	
Log											Ze	ro Span Sull Span	
0.00	MARY AN	www.	YWYYY	YM7WVMA4	proversion	YYYY	www.	mmm	man	mwwy	Start Fr	•	
-10.0											Stop Fr		
-30.0												ITO TUNE	
-40.0											Contractor Contractor	00 MHz	
-60.0										<u></u>	Au Ma Freq Of	n	
-70.0											0 Hz		
Center 2.4 #Res BW					#Video BW 6	20 kHz			veep 2.00	an 83.50 MHz ms (835 pts)		g	
"	3	20	? Dec 1 3:15	06, 2024 5:26 PM							Signal (Span Zi	Frack com)	

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4.1.9 Time of Occupancy

RESULT:

Test standard:FCC Part 15.247(a)(1)(iii)Requirement:ANSI C63.10-2013, Clause 7.8.4
KDB 558074 D01 v05r02, Clause 2.2Kind of test site:Shielded roomTest setupTest Channel:MiddleOperation Mode:A.1.aAmbient temperature:22.2°C

Table 5: Time of Occupancy

Relative humidity

Mode	Packet Type	Pulse Time (ms)	Total of Dwell Time (ms)	Total of Dwell Time (s)	Limit (s)
	DH1	0.3800	121.600	0.1216	0.4
GFSK	DH3	1.6350	261.600	0.2616	0.4
	DH5	2.8870	307.947	0.3079	0.4
	DH1	0.3867	123.744	0.1237	0.4
π /4-DQPSK	DH3	1.6400	262.400	0.2624	0.4
	DH5	2.8870	307.947	0.3079	0.4
	DH1	0.3867	123.744	0.1237	0.4
8-DPSK	DH3	1.6400	262.400	0.2624	0.4
	DH5	2.8870	307.947	0.3079	0.4

: 32%

Note:

For DH1 package type:

Total of Dwell = Pulse Time*(1600/2)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

For DH3 package type:

Total of Dwell = Pulse Time*(1600/4)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

For DH5 package type:

Total of Dwell = Pulse Time*(1600/6)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

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Figure 37: Time of Occupancy, 2441MHz, GFSK DH1

Spectrum / Swept SA	Analyz	er 1	•	-										Frequency	- 1 😤
KEYSIG	.	nput: RF Coupling: Align: Off	AC		:: 50 Ω tions: Off ef: Internal	#Atten: 30 dB Preamp: Off	Ga IF	IO: Fast ate: Off Gain: Low g Track: O		Avg Type: L Trig: Free F		123456 WWWWWW PNNNNN		r Frequency 1000000 GHz	Settings
1 Spectrum		•				Ref LvI Offset 1		8			ΔMkr1			000000 Hz	
Scale/Div	10 dE	3				Ref Level 20.00) dBm		<u> </u>	Δ2		-1.21 dB		Swept Span Zero Span	
10.0				X	2									Full Span	
-10.0 -20.0 -30.0	*****	~	4.1							-^			Start F 2.441	Freq 1000000 GHz	
-40.0 -50.0 -60.0													Stop F 2.441	Freq 1000000 GHz	
-70.0 Center 2.4	141000	0000 GH	z			#Video BW 3.0	0 MHz					Span 0 Hz			
Res BW 1. 5 Marker Ta		z v								S	weep 1.00	ms (601 pts)	CF St 1.000	ep 0000 MHz	
Мо	de 1		Scale		x	Y		nction	Fur	nction Width	n Func	tion Value		luto Man	
1 Δ 2 F 3		1	t (/	Δ)	380.0 μs 288.3 μs	(Δ) -1.215 dB 4.061 dBm							Freq (0 Hz	Offset	
4 5 6													L	s Scale .og .in	
4 5) (3	2		06, 2024 :49 PM	\square								l Track Zoom)	

Figure 38: Time of Occupancy, 2441MHz, GFSK DH3

Swept			•	+						⊅	Frequency	- T 😤
KEY RL	SIGHT	Input: F Couplin Align: C	ng: AC	Co	out Z: 50 Ω prrections: Off eq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C				r Frequency 0000000 GHz	Settings
1 Spec	ctrum		•			Ref Lvl Offset 1	.00 dB	Δ	Mkr1 1.635 ms	0.000	000000 Hz	
Scale Log	/Div 10 c	B				Ref Level 20.00	dBm		-0.01 dB	¥	wept Span	
10.0				x				<u></u> 1∆2			ero Span	
0.00				^2							Full Span	
-20.0										Start I	(1988)	
-30.0				1							000000 GHz	
-50.0										Stop F	Freq 1000000 GHz	
-60.0										2.44	000000 GH2	
Cente	r 2.4410	00000 G	Hz			#Video BW 3.0	MHz		Span 0 Hz		UTO TUNE	
	W 1.0 M							Sw	eep 3.00 ms (601 pts)	CF St	State of the second	
5 Mari	ker Table		V							and the owner where the	0000 MHz Juto	
	Mode	Trace	Scale		_ X	Y	Function	Function Width	Function Value		lan	
1	<u>Δ2</u> F	1 1	t t	(Δ)	1.635 ms 625.0 μs	(Δ)-0.01249 dB 4.039 dBm				Freq (Offset	
3 4										0 Hz		
4 5 6											s Scale .og .in	
-	ち	3		? 2	ec 06, 2024	\square		, in the second s		Signa	Track	

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Figure 39: Time of Occupancy, 2441MHz, GFSK DH5

Spectrum / Swept SA	Analyze	er1,	+							*	Frequency	- * ※
KEYSIG	C	iput: RF oupling: AC lign: Off	;	Input Ζ: 50 Ω Corrections: Off Freq Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Of	Trig: Free	: Log-Power Run	123456 WWWWWW PNNNNN	Center Fi 2.44100 Span	equency 0000 GHz	Settings
1 Spectrum	ı	•			Ref LvI Offset 1.0	00 dB		ΔMkr1		0.00000	000 Hz	
Scale/Div 10 dl					Ref Level 20.00 dBm				0.06 dB 1∆2	Swept Spar Zero Span		
0.00		X ₂								Fu	ll Span	
-20.0	Ausonania Auraka	ment								Start Free 2.44100	1 0000 GHz	
-40.0 -50.0 -60.0										Stop Free 2.44100	1 0000 GHz	
-70.0	41000	000 GHz			#Video BW 3.0 I	MHz			Span 0 Hz	AUT	O TUNE	
Res BW 1.	.0 MHz							Sweep 4.0	0 ms (601 pts)	CF Step 1.00000	MHz	
5 Marker Ta	de Tr	race Sca		Х	Y	Function	Function Wid	ith Fun	ction Value	Auto		
1 Δ 2 F 3		1 t 1 t	(Δ) 2.887 ms 566.7 µs	(Δ) 0.05733 dB 4.027 dBm					Freq Offs 0 Hz	et	
4 5 6										X Axis So Log Lin	ale	
-) (?	Dec 06, 2024 2:10:19 PM	$\square \triangle$					Signal Tra (Span Zoo		

Figure 40: Time of Occupancy, 2441MHz, π /4-DQPSK DH1

Spectr Swept	um Anal <u>y</u> SA	yzer 1	•	+							\$	Frequency	- - 🛞
KEY: RL	SIGHT	Input: F Couplir Align: C	ig: AC	Corre	Z: 50 Ω ctions: Off Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Of			123456 WWWWWW PNNNNN	***********	r Frequency 1000000 GHz	Settings
1 Spec Scale/ Log	trum Div 10 c	IB	•			Ref LvI Offset 1.0 Ref Level 20.00 c			ΔMkr1	386.7 μs -0.84 dB	0.000	000000 Hz Swept Span	
10.0 0.00 -10.0					X ₂		┍┷┚╌╱╹╱┨┝╍╌╟┦	ur™puuum				tero Span Full Span	
-20.0 -30.0 -40.0	,			بىرى دەر مېر	~~~/l						Territoria de la competencia d	1000000 GHz	
-50.0 -60.0 -70.0												1000000 GHz	
	r 2.4410 W 1.0 M		Hz			#Video BW 3.0	MHz	s	weep 1.00	Span 0 Hz ms (601 pts)	CF St	and the second second second	
5 Mark	er Table		V								-	0000 MHz Auto	
1 2	Mode ∆2 F	Trace 1 1	Scale t	(Δ)	X 386.7 µs 331.7 µs	Υ (Δ) -0.8400 dB 5.466 dBm	Function	Function Width	n Func	tion Value	Freq (0 Hz	/lan Offset	
3 4 5 6											X Axis L	s Scale .og .in	
H	5	で			06, 2024 2:32 PM	\mathbb{D}						l Track Zoom)	

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Figure 41: Time of Occupancy, 2441MHz, #/4-DQPSK DH3

Spect Swep	rum Anal t SA	yzer 1	•	+								Frequency	- *
KEY RL	SIGHT • • ••	Input: F Couplir Align: C	ng: AC	Corre	Z: 50 Ω ections: Off Ref: Internal	#Atten: 30 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C	Trig /	g Type: Log-Po g: Free Run	wer 123456 WWWWWW PNNNN	2.44100	requency 0000 GHz	Settings
1 Spe	ctrum		•			Ref LvI Offset 1.	00 dB		ΔΜΙ	kr1 1.640 ms	0.00000	000 Hz	
Scale Log 10.0	/Div 10 d	1B				Ref Level 20.00 (dBm		<u></u> ▲1∆	1.24 dE	Jwe	pt Span Span	
0.00				X_2	~		~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Fu	ll Span	
-20.0 -30.0			u								Start Fre 2.44100	9 0000 GHz	
-40.0 -50.0 -60.0											Stop Free 2.44100	9 0000 GHz	
-70.0 Cente	er 2.4410	00000 (3Hz			#Video BW 3.0	MHz			Span 0 H		O TUNE	
_	SW 1.0 M	Hz	*						Sweep	3.00 ms (601 pts	CF Step 1.00000	0 MHz	
5 Mar	Mode	Trace	Scale		x	Y	Function	Functio	n Width	Function Value	Auto Man		
1 2 3	Δ2 F	1 1	t t	(Δ)	1.640 ms 745.0 μs	(Δ) 1.240 dB 4.264 dBm					Freq Offs 0 Hz	et	
4 5 6											X Axis So Log Lin	ale	
	ょ	3			06, 2024 3:02 PM	\Box				¥ - X	Signal Tr		

Figure 42: Time of Occupancy, 2441MHz, x/4-DQPSK DH5

Swept			•	+								\$	Frequency	- 1 🛞
KEY RL	SIGHT • • ••	Input: F Couplir Align: C	ng: AC	Input Z: 50 Corrections Freq Ref: Ir	: Off	#Atten: 30 dB Preamp: Off	PNO: Gate: IF Gail Sig Tra	Off	Avg Type: Lo Trig: Free Ru		123456 WWWWWW PNNNNN		r Frequency 000000 GHz	Settings
1 Spectrum Scale/Div 10 dB Log		v		R	Ref LvI Offset 1.00 dB			ΔMkr1 2.887 ms				000000 Hz		
		iB				Ref Level 20.00 dBm				-0.60 dB 1∆2		wept Span ero Span		
10.0 0.00			K2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~	·****					Full Span	
-10.0 -20.0 -30.0	· • · · · · · · · · · · ·											Start F 2.441	Freq 1000000 GHz	
-40.0 -50.0 -60.0												Stop F 2.441	⁻ req 1000000 GHz	
-70.0 Cente	er 2.4410	00000 0	Hz			#Video BW 3.0	MHz				Span 0 Hz	A		
	W 1.0 M								Sw	veep 4.0	0 ms (601 pts)	CF St		
5 Mar	ker Table											and the owner of the	0000 MHz Auto	
	Mode	Trace	Scale	Х		Y	Functi	on Fu	nction Width	Fun	ction Value		lan	
1 2 3	<u>Δ2</u> F	1 1	t		87 ms (. 0.0 µs	Δ) -0.5960 dB 5.432 dBm						Freq (0 Hz	Offset	
4 5 6												L	s Scale .og .in	
H	5	3		Dec 06, 2 2:43:28	2024 C								Track	