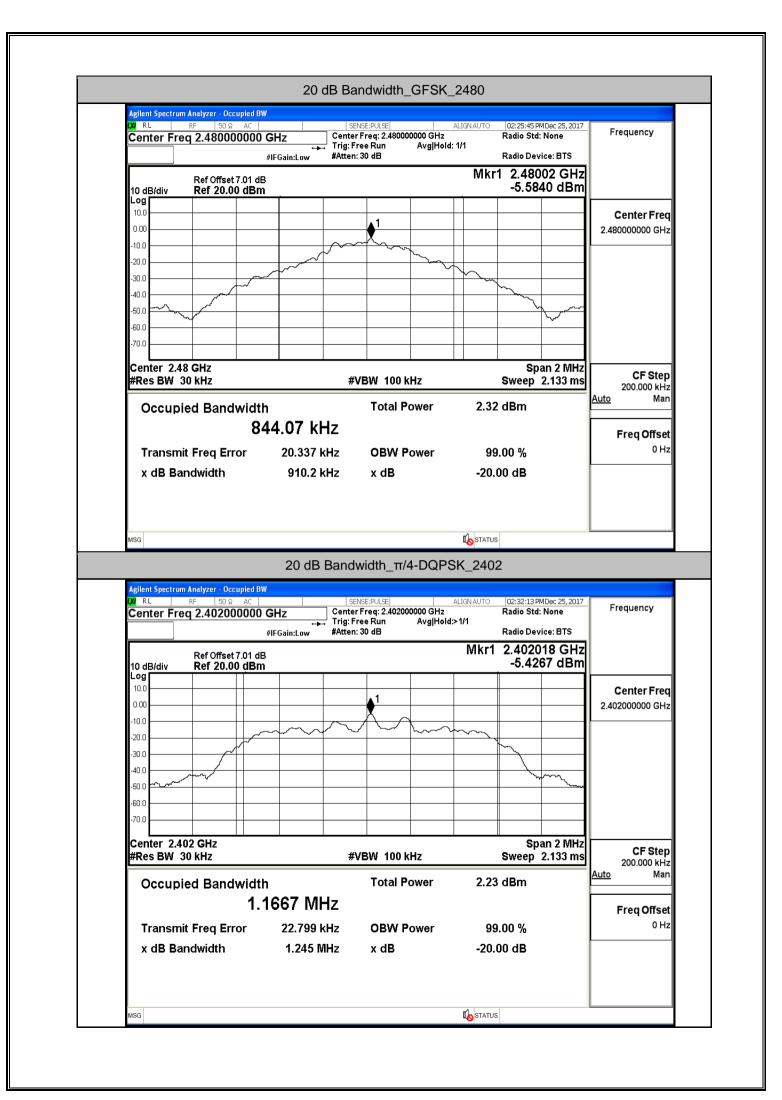
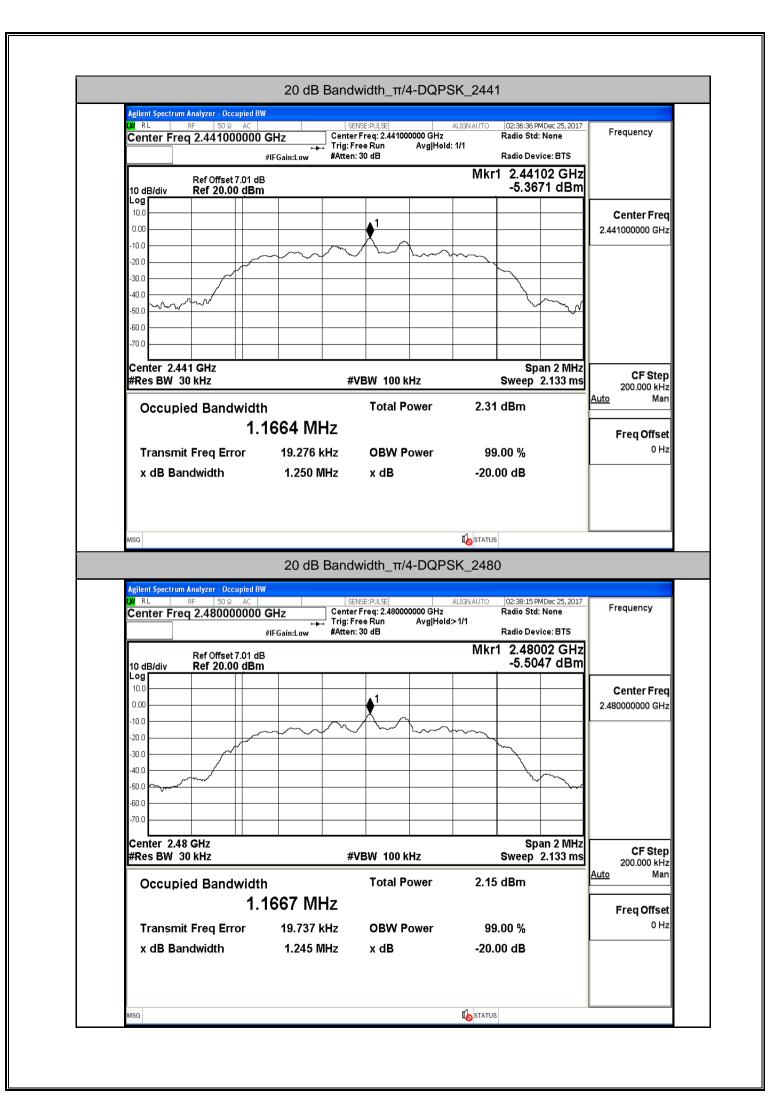
Appendix A RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement) Product Name: BLUETOOTH ON-EAR HEADPHONES Trade Mark: ONN Test Model: 17LY81 FCC ID: 2AKI8-ONNBTONEAR

A.1 20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
	2402	0.9192		PASS
GFSK	2441	0.9165		PASS
	2480	0.9102		PASS
	2402	1.245		PASS
π/4-DQPSK	2441	1.250		PASS
	2480	1.245		PASS

	n Analyzer - Occupie					
	RF 50Ω A	00 GHz Cer	SENSE:PULSE	Rac	21:23 PM Dec 25, 2017 lio Std: None	Frequency
	<u> </u>	Trig	g:FreeRun Avg Ho ten:30 dB		lio Device: BTS	
				Mkr1 2.4	402018 GHz	
10 dB/div	Ref Offset 7.0 Ref 20.00 d				5.4080 dBm	
Log 10.0						Center Fred
0.00			¹			2.402000000 GHz
-10.0			~~~			
-20.0						
-30.0						
-40.0					have a series	
-60.0	\checkmark				Ŵ	
-70.0						
Center 2.4	02 CH7				Span 2 MHz	
#Res BW 3			#VBW 100 kHz	Sw	eep 2.133 ms	CF Step 200.000 kHz
Occurd	ed Bandwi	dtb	Total Power	2.48 dB		Auto Mar
occupi		845.56 kHz	. star i owor	2.40 00		
						Freq Offse
Transmi	it Freq Error	19.430 kHz	OBW Power	99.00	%	0 Hz
x dB Ba	ndwidth	919.2 kHz	x dB	-20.00 c	IB	
			Bandwidth_GFSk	1 <mark>6</mark> status (_2441		
LXI RL	<mark>1 Analyzer - Occupi</mark> e RF 50 Ω A	ed BW	SENSE:PULSE	(_2441 Align auto 02	24:07 PMDec 25, 2017	Frequency
LXI RL		ed BW ⊂ I <mark>00 GHz </mark> Cei +++ Tris	SENSE:PULSE	(_2441 ALIGN AUTO 02 Rac Id: 1/1	io Std: None	Frequency
LXI RL	RF 50 Ω A eq 2.4410000	ed BW C IOO GHz #IFGain:Low #At	sense:Pulse	(_2441 ALIGNAUTO 02 Id: 1/1 Rac	lio Std: None	Frequency
Center Fre	RF 50 Ω A	ed BW ⊂	SENSE:PULSE	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	io Std: None	Frequency
Center Fre	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	SENSE:PULSE	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	
22 RL Center Fre 10 dB/div Log	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	SENSE:PULSE	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Frequency Center Freq 2.44100000 GH;
20 RL Center Fre	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
OU RL Center Fre 10 dB/div Log 10.0 .000 -10.0 -20.0	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
OZ RL Center Fre 10 dB/div Log 10.0 .000 -10.0 -20.0 -30.0	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
XI RL Center Fre 10 dB/div Log	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
20 dB/div Center Fre 10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
All RL Center Fre 10 dB/div Log 10.0 .000 -10.0 -20.0 -30.0 -40.0 -50.0	RF 50 Ω A eq 2.4410000 Ref Offset 7.0	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	lio Std: None lio Device: BTS . 44102 GHz	Center Free
XX RL Center Fre 10 dB/div Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	RF 50 Ω A cq 2.44100000 Ref Offset 7.0 Ref 20.00 d A	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO [02 Id: 1/1 Rac Mkr1 2	io Std: None io Device: BTS .44102 GHz 5.4266 dBm	Center Frec 2.441000000 GH:
All RL Center Fre 10 dB/div Log 10.0 -0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0	RF 50 Q A eq 2.44100000 A Ref Offset 7.0 Ref 20.00 d A A A A A A A A1 GHz A A	ed BW ⊂	sense:PULse hter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO 02 Rac Id: 1/1 Rac Mkr1 2 	lio Std: None lio Device: BTS . 44102 GHz	Center Frec 2.441000000 GH2
XI RL Center Fre 10 dB/div Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 2.44 #Res BW 3	RF 50 Q A eq 2.4410000 A Ref Offset 7.0 Ref 20.00 d A A A A A1 GHz B0 kHz B	2d BW C IOO GHz Cei Frit #IFGain:Low I dB Bm C C Cei Cei Cei Cei Cei Cei Cei Cei Cei	sense:PULse nter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO 02 Id: 1/1 Rac Mkr1 2 	io Std: None io Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms	Center Frec 2.441000000 GH:
XI RL Center Fre 10 dB/div Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 2.44 #Res BW 3	RF 50 Q A eq 2.44100000 A Ref Offset 7.0 Ref 20.00 d A A A A A A A A1 GHz A A	ed BW C C Cei #IFGain:Low #At 1 dB Bm C Cei Attri- Cei Cei Attri- Attri- Cei Cei Cei Cei Cei Cei Cei Cei	SENSE:PULSE nter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB	(_2441 ALIGNAUTO 02 Rac Id: 1/1 Rac Mkr1 2 	io Std: None io Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms	Center Frec 2.441000000 GH: 2.441000000 GH: 2.44100000 GH: Auto Mar
200 RL Center Fre 10 dB/div Log 10.0 .0.0	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 d 41 GHz 30 kHz	ed BW C C C C C C C C C C C C C C C C C C C	SENSE:PULCE Inter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	(_2441 ALIGNAUTO [02 Rac Id: 1/1 Rac Mkr1 2 	iio Std: None iio Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms m	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset
200 RL Center Fre 10 dB/div Log 10.0 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 2.44 #Res BW 3 Occupi Transmi	RF 50 Q A eq 2.44100000 Ref Offset 7.0 Ref 20.00 d Image: Comparison of the second se	ed BW C 100 GHz FFGain:Low 1 dB Bm C 1 dB C 1 dB C C 1 dB C C 1 dB C C C C C C C C C C C C C C C C C C C	SENSE:PULSE inter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB 1 1 4 1 4 1 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	(_2441 ALIGNAUTO 02 Id: 1/1 Rac Mkr1 2 	iio Std: None iio Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms m	Center Frec 2.441000000 GH: 2.441000000 GH: 2.44100000 GH: Auto Mar
200 RL Center Fre 10 dB/div Log 10.0 .0.00 .10.0 .2	RF 50 Q A eq 2.44100000 Ref Offset 7.0 Ref 20.00 d Image: Comparison of the second se	ed BW C C C C C C C C C C C C C C C C C C C	SENSE:PULCE Inter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	(_2441 ALIGNAUTO [02 Rac Id: 1/1 Rac Mkr1 2 	iio Std: None iio Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms m	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset
200 RL Center Fre 10 dB/div Log 10.0 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -50.0 -60.0 -70.0 Center 2.44 #Res BW 3 Occupi Transmi	RF 50 Q A eq 2.44100000 Ref Offset 7.0 Ref 20.00 d Image: Comparison of the second se	ed BW C 100 GHz FFGain:Low 1 dB Bm C 1 dB C 1 dB C C 1 dB C C 1 dB C C C C C C C C C C C C C C C C C C C	SENSE:PULSE inter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB 1 1 4 1 4 1 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	(_2441 ALIGNAUTO 02 Id: 1/1 Rac Mkr1 2 	iio Std: None iio Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms m	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset
Image: Name	RF 50 Q A eq 2.44100000 Ref Offset 7.0 Ref 20.00 d Image: Comparison of the second se	ed BW C 100 GHz FFGain:Low 1 dB Bm C 1 dB C 1 dB C C 1 dB C C 1 dB C C C C C C C C C C C C C C C C C C C	SENSE:PULSE inter Freq: 2.441000000 GHz g: Free Run Avg Ho ten: 30 dB 1 1 4 1 4 1 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	(_2441 ALIGNAUTO 02 Id: 1/1 Rac Mkr1 2 	iio Std: None iio Device: BTS .44102 GHz 5.4266 dBm Span 2 MHz eep 2.133 ms m	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset





A.2 Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
	2402	-5.017	30	PASS
GFSK	2441	-4.831	30	PASS
	2480	-5.128	30	PASS
	2402	-3.976	21	PASS
π/4-DQPSK	2441	-3.887	21	PASS
	2480	-3.996	21	PASS

RF	er - Swep 50 Ω		Hz	SENS	E:PULSE		ALIGN AUTO :: Log-Pwr	02:21:55 PM TRACE	123456	Frequency
	set 7.01	I	PNO: Fast ↔ FGain:Low	⊣ Trig: Fre #Atten: 3		Avg Hold:	^{10/10} kr1 2.40	TYPE DET	FPPPP 50 GHz	Auto Tun
	0.00 dE							-5.01	7 dBm	
										Center Fre 2.402000000 GH
					1					Start Fre 2.399500000 GH
										Stop Fre 2.404500000 GH
										CF Ste 500.000 kH <u>Auto</u> Ma
										Freq Offse
										он
000 G MHz		Сс		V 8.0 MHz			Sweep 1. Status GFSK_2		000 MHz 001 pts)	
MHz nalyzer	Ζ er - Swep 50 Ω	nt SA AC 0000 G	nducteo Hz PN0: Fast ↔	SENS	Output I :e:PULSE e Run	Power_(GFSK_2 ALIGN AUTO	067 ms (8 441 02:24:39 PM TRACE	Dec 25, 2017	Frequency
MHz	Ζ er - Swep 50 Ω	rt SA AC 10000 G	onducteo	d Peak (Output I :e:PULSE e Run	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 10000 G	nducteo Hz PN0: Fast ↔	SENS	Output I :e:PULSE e Run	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 10000 G	nducteo Hz PN0: Fast ↔	SENS	Output I :e:PULSE e Run	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tuno Center Free
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 10000 G	nducteo Hz PN0: Fast ↔	SENS	Output F eRun 0 dB	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tune Center Free 2.44100000 GH Start Free 2.438500000 GH Stop Free
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 10000 G	nducteo Hz PN0: Fast ↔	SENS	Output F eRun 0 dB	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tune Center Free 2.44100000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 0000 G	nducteo Hz PN0: Fast ↔	SENS	Output F eRun 0 dB	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tune Center Free 2.44100000 GH Start Free 2.438500000 GH Stop Free
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 0000 G	nducteo Hz PN0: Fast ↔	SENS	Output F eRun 0 dB	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tum Center Free 2.441000000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH CF Step 500.000 kH Auto Freq Offsee
MHz nalyzer ₹ 2.44	z er - Swep 50 Ω 41000	rt SA AC 0000 G	nducteo Hz PN0: Fast ↔	SENS	Output F eRun 0 dB	Ower_(Avg Type Avg Hold:	GFSK_2 ALIGN AUTO 10/10	067 ms (8 441 02:24:39 PM TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P P	Auto Tune Center Free 2.441000000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH CF Step 500.000 kH

		m Analyze										
Cente			50 Ω 80000	000 G	PNO: Fast +	Trig: Fre			ALIGNAUTO :: Log-Pwr : 10/10	TRAC	4Dec 25, 2017 26 1 2 3 4 5 6 26 M WWWWWW 57 P P P P P F	Frequency
10 dB/d	iv	Ref Offs Ref 20		dB	FGain:Low	#Atten: 3		М	kr1 2.48	0 080 6		Auto Tun
10.0												Center Fre 2.480000000 GH
0.00 —							● ¹					Start Free
-10.0												2.477500000 GH
-20.0												Stop Fre 2.482500000 GH
-40.0		_										CF Ste 500.000 kH
-50.0 —												<u>Auto</u> Ma
-60.0 ——												Freq Offse 0 H
-70.0		_										
Center #Res E		80000 3.0 MH	z	Cond		v 8.0 MHz eak Out			Sweep 1.0 Status -DQPSK	067 ms (
#Res E	BW 3	B.O MH: m Analyze RF	Z er - Swepi 50 Ω	t SA AC	ucted Pe	eak Out	ernu E:PULSE ERun	wer_π/4	-DQPSK	067 ms (2402 02:32:45 Pf TRAC TYI	MDec 25, 2017	Frequency
#Res E MSG Agilent Sp (X) RL Cente	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted P		ernu E:PULSE ERun	Wer_π/4 Avg Type Avg Hold:	-DQPSK	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency
#Res E MSG Agilent Sp (X) RL	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	ernu E:PULSE ERun	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency
#Res E MSG Agilent Sp W RL Cente	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	ernu E:PULSE ERun	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Auto Tun Center Free 2.402000000 GH
#Res E MSG Agilent Sp UXI RL Cente 10 dB/d Log	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Tun Center Free
Agilent Sp XX RL Center 10 dB/d 10,0	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Tun Center Free 2.40200000 GH
Agilent Sp Msg Agilent Sp Val RL Center 10 dB/d 10.0 -0.00 -10.0 -20.0 -30.0	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Tun Center Freq 2.40200000 GH Start Freq 2.399500000 GH Stop Freq 2.404500000 GH
Agilent Sp Mss Mss <td>ectru r Fro</td> <td>m Analyze RF eq 2.4</td> <td>z er - Swep 50 Ω 02000 set 7.01</td> <td>t SA AC 1000 G II dB</td> <td>ucted Po Hz PN0: Fast ↔</td> <td>eak Out</td> <td>eRun 0 dB</td> <td>Wer_π/4 Avg Type Avg Hold:</td> <td>LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10</td> <td>067 ms (</td> <td>MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F</td> <td>Frequency Auto Turn Center Free 2.40200000 GH Start Free 2.399500000 GH</td>	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Turn Center Free 2.40200000 GH Start Free 2.399500000 GH
Agilent Sp Msg Agilent Sp Val RL Center 10 dB/d 10.0 -0.00 -10.0 -20.0 -30.0	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Tum Center Free 2.402000000 GH Start Free 2.399500000 GH Stop Free 2.404500000 GH CF Step 500.000 kH Auto Mai
Agilent Sp. MSG XI RL Center 10 dB/d 10.0 10.0 -10.0 -10.0 -20.0 -30.0 -40.0	ectru r Fro	m Analyze RF eq 2.4	z er - Swep 50 Ω 02000 set 7.01	t SA AC 1000 G II dB	ucted Po Hz PN0: Fast ↔	eak Out	eRun 0 dB	Wer_π/4 Avg Type Avg Hold:	LIGNAUTO 2010 ALIGNAUTO 21 LOG-Pwr 10/10	067 ms (MDec 25, 2017 E 1 2 3 4 5 6 MWWWWW T P P P P F	Frequency Auto Tun Center Freq 2.402000000 GH Start Freq 2.399500000 GH Stop Freq 2.404500000 GH CF Step 500.000 kH

LXI RL	rum Analyzer - Swe RF 50 Ω Freq 2.44100	AC	lz	1	E:PULSE	Avg Type	ALIGN AUTO : Log-Pwr	02:37:09 PMI TRACE	123456	Frequency
10 dB/div	Ref Offset 7.0 Ref 20.00 d	IFG 1 dB	10: Fast ↔ Gain:Low	≓ Trig: Free #Atten: 30		Avg Hold: M	kr1 2.44	1 261 87	75 GHz 7 dBm	
Log										Center Fre 2.441000000 GH
0.00					¹					Start Fre
-10.0							*****			2.438500000 GH
-20.0										Stop Fre 2.443500000 GH
-30.0										CF Ste 500.000 kH
-50.0										<u>Auto</u> Ma
-60.0										Freq Offse 0 H
-70.0										
Contor 2	444000 CH-							Onon E (
Center 2. #Res BW	.441000 GHz 7 3.0 MHz		#VBW	8.0 MHz		<u> </u>	Sweep 1.0	Span 5.()67 ms (8	000 MHz 001 pts)	
#Res BW	3.0 MHz)67 ms (8	000 MHz 001 pts)	
#Res BW MSG Agilent Spect	7 3.0 MHz trum Analyzer - Swe	ept SA AC 100000 GH Pt	Icted Pe	eak Out	put Pov	ver_π/4	DQPSK	067 ms (8 2480 	001 pts)	Frequency
#Res BW MSG Agilent Spect (X) RL Center F	rum Analyzer - Swe RF 50 Ω	ept SA AC 00000 GH Pt IFG	icted Pe		put Pov	ver_π/4 Avg Type Avg Hold:	DQPSK	2480 2238:49 PMI TRACE TYPE DET	Dec 25, 2017 1 2 3 4 5 6 MWWWWW P P P P P	Frequency Auto Tun
#Res BW MSG Agilent Spect	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Free
#Res BW MSG Agilent Spect (X) RL Center F 10 dB/div Log	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Fre 2.48000000 GH
#Res BW MSG Agilent Spect X1 RL Center F 10 dB/div Log 10.0	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov E:PULSE] ∋ Run) dB	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Free
Agilent Spect Msg Agilent Spect Msg Center F 10 dB/div 10.0 .000 -10.0 -20.0	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov E:PULSE] ∋ Run) dB	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Fre 2.48000000 GH
Agilent Spect XX RL Center F 10 dB/div Log 10.0 .000	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov E:PULSE] ∋ Run) dB	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Fre 2.48000000 GH Start Fre 2.477500000 GH Stop Fre 2.482500000 GH CF Stej
Agilent Spect Xale Agilent Spect Xale Center F 10 dB/div 0.00 10.0	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov E:PULSE] ∋ Run) dB	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	Frequency Auto Tun Center Fre 2.480000000 GH Start Fre 2.477500000 GH Stop Fre 2.482500000 GH CF Ste 500.000 kH
Agilent Spect Msg Agilent Spect Mr RL Center F 10.0 10.0 -10.0 -10.0 -20.0 -30.0 -40.0	7 3.0 MHz rum Analyzer - Swe RF 50 Ω Freq 2.48000 Ref Offset 7.0	ept SA AC 00000 GH Pt IFG	Icted Pe	eak Out	put Pov E:PULSE] ∋ Run) dB	ver_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSK ALIGN AUTO : Log-Pwr 10/10	2480 2238:49 PMI TRACE TYPE DET	001 pts)	- Frequency Auto Tun Center Fre 2.480000000 GH Start Fre 2.477500000 GH Stop Fre 2.482500000 GH CF Stej 500.000 кH

A.3 Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
	2402	1.023	0.9192	PASS
GFSK	2441	0.982	0.9165	PASS
	2480	1.322	0.9102	PASS
	2402	0.96	0.83	PASS
π/4-DQPSK	2441	0.994	0.83	PASS
	2480	1.16	0.83	PASS

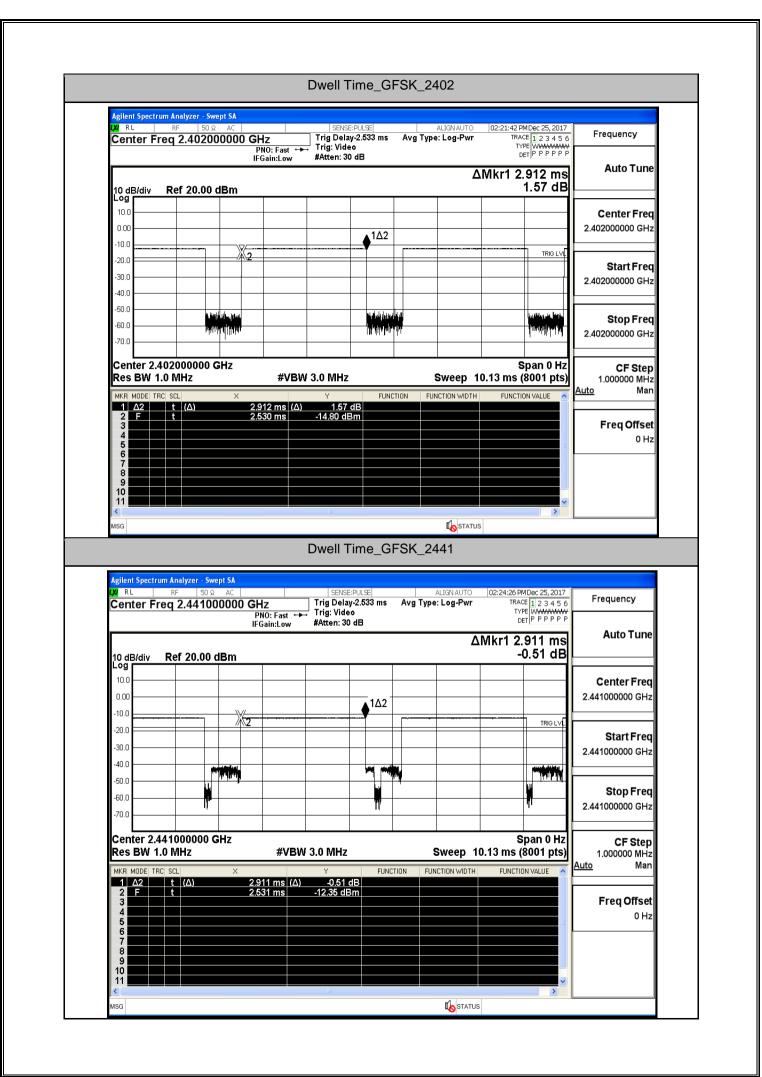
Center F	RF 50 Ω Freq 2.40250		Z O: Wide ↔	Trig: Free		Avg Type Avg Hold	ALIGN AUTO : Log-Pwr : 10/10	TR.4 T	PM Dec 25, 2017 ACE 1 2 3 4 5 6 YPE M WWWWW DET P P P P P P P	Frequency
10 dB/div	Ref Offset 7. Ref 20.00 (01 dB	ain:Low	#Atten: 30	0 dB		ΔMkr	1 1.022	75 MHz).251 dB	Auto Tu
Log 10.0							▲1∆			Center Fr
0.00 -10.0	- MAR	m-%2m	rvy Www.			- Mar	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		h	2.402500000 GH
-20.0 -30.0					wwwww				March WWW	Start Fre 2.401500000 GF
-50.0										Stop Fre 2.403500000 GH
-70.0 Start 2.40 #Res BW	01500 GHz / 100 kHz		#VBW	/ 300 kHz					3500 GHz (8001 pts)	CF Ste 200.000 kł
MKR MODE T		× 1.022.75	δ MHz (Δ)	Y -0.251	FUN		NCTION WIDTH		ION VALUE	<u>Auto</u> Ma
2 F 3 4 5		2.401 998 00) GHz	-5.626 dE	3m					Freq Offs 0 H
6 7 8										
9 10 11										
10				Ш			I o STATUS		×	
10 11 <		Car	rier Fre	equency	v Separa	ation_G				
10 11 MSG	rum Analyzer - Sw RF 50 Ω	ept SA	rier Fre		/ Separa	ation_G		441		
10 11 MSG Agilent Spect XX RL		ept SA AC 00000 GH PN	Z O: Wide ↔	SENSE	E:PULSE	ation_G #Avg Typ Avg Hold	FSK_2	441 02:43:54 F TRA		Frequency
Agilent Spect	RF 50 Ω	ept SA AC DOOOO GH PN IFG D1 dB	Z	SENSE	E:PULSE	#Avg Typ	ALIGN AUTO e: RMS : 10/10	02:43:541 1784 1787	PM Dec 25, 2017 ACE 1 2 3 4 5 6	Frequency Auto Tur
Agilent Spect	RF 50 Ω Freq 2.44150 Ref Offset 7.1	AC DOUCO GH PNI IFG D1 dB dBm	Z O: Wide ←► ain:Low	SENSE → Trig: Free #Atten: 30	E:PULSE a Run D dB	#Avg Typ	ALIGNAUTO e: RMS : 10/10	441 02:43:54 ΤΕΑ Τ ΔΜkr1 -C	MDec 25, 2017 MCE 12 3 4 5 6 VPE MWWWWW Der IP P P P P 982 kHz	Auto Tur Center Fre
10 11 MSG Agilent Spect MSG Center F 10 dB/div 10.0 10.0 0.00 -10.0 -10.0	RF 50 Ω Freq 2.44150 Ref Offset 7.0 Ref 20.00 0	AC DOUCO GH PNI IFG D1 dB dBm	Z O: Wide ←► ain:Low	SENSE → Trig: Free #Atten: 30	E:PULSE a Run D dB	#Avg Typ	ALIGN AUTO e: RMS : 10/10	Δ2:43:54 F TRA ΔMkr1 -C	MDec 25, 2017 CCE 11 2 3 4 5 6 PP PP PP PP 982 kHz 0.002 dB	Auto Tur
Agilent Spect	RF 50 Ω Freq 2.44150 Ref Offset 7.0 Ref 20.00 0	AC DOUCO GH PNI IFG D1 dB dBm	Z O: Wide ←► ain:Low	SENSE	E:PULSE a Run D dB	#Avg Typ Avg Hold	ALIGN AUTO e: RMS : 10/10	441 02:43:54 ΤΕΑ Τ ΔΜkr1 -C	PMDec 25, 2017 ACE [1 2 3 4 5 6 PPE IM WWWWW DET IP P P P P P 982 kHz 0.002 dB	Auto Tur Center Fre
10 11 MSG Agilent Spect Agilent Spect Agilent Spect MSG Center F 10 dB/div - 10.0 - 0.00 - -10.0 - -20.0 - -30.0 -	RF 50 Ω Freq 2.44150 Ref Offset 7.0 Ref 20.00 0	AC DOUCO GH PNI IFG D1 dB dBm	Z O: Wide ←► ain:Low	SENSE → Trig: Free #Atten: 30	E:PULSE a Run D dB	#Avg Typ Avg Hold	ALIGN AUTO e: RMS : 10/10	Δ2:43:54 F TRA ΔMkr1 -C	MDec 25, 2017 CCE 11 2 3 4 5 6 PP PP PP PP 982 kHz 0.002 dB	Auto Tur Center Fre 2.441500000 GF Start Fre 2.440500000 GF Stop Fre
10 11 MSG Agilent Spect XI RL Center F 10 dB/div 10.0 10.0 0.00 -10.0	RF 50 Ω Freq 2.44150 Ref Offset 7.0 Ref 20.00 0	AC DOUCO GH PNI IFG D1 dB dBm	Z O: Wide ←► ain:Low	SENSE → Trig: Free #Atten: 30	E:PULSE a Run D dB	#Avg Typ Avg Hold	ALIGN AUTO e: RMS : 10/10	Δ2:43:54 F TRA ΔMkr1 -C	MDec 25, 2017 CCE 11 2 3 4 5 6 PP PP PP PP 982 kHz 0.002 dB	Auto Tur Center Fre 2.441500000 GF Start Fre 2.440500000 GF
10 11 MSG Agilent Spect VX RL Center F 10 dB/div Center F 10 dB/div -20.0 -20.0 -40.0 -50.0 -60.0 -70.0 Start 2.44 #Res BW	Ref Offset 7.1 Ref 20.00 0	ept SA AC PNI PNI PNI PNI PNI PNI PNI PNI	Z O: Wide → ain:Low	SENSE Trig: Free #Atten: 30	E:PULSE	#Avg Typ Avg Hold	SFSK_2	441 102:43:541 TRA TRA C Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	MDec 25, 2017 ME [1 2 3 4 5 6 YPE [1 2 3 4 5 6 YPE [1 2 3 4 5 6 MWWWWW Det [2 3 4 5 6 982 kHz 0.002 dB 1 1 2 2500 GHz (1001 pts)	Auto Tur Center Fre 2.441500000 GF Start Fre 2.440500000 GF Stop Fre
10 11 MSG Agilent Spect X Center F Center F 10 dB/div Center F 10 dB/div Center Spect X RL Center Spect Z Start 2.44 Res SBW MKR MODE T 1 A2 Z Start 2 Start 2 Start Spect R Spect R Spect Spec	Ref Offset 7.1 Ref 20.00 0	AC DOUCO GH PNIIFG	Z 0: Wide → ain:Low 2~~ \\ \\ 2~~ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	SENSE → Trig: Free #Atten: 30	E:PULSE	#Avg Typ Avg Hold	FSK_2-	441 102:43:541 TRA TRA C Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	MDec 25, 2017 ACE 12 3 4 5 6 P P P P P P 982 kHz 0.002 dB	Auto Tur Center Fre 2.441500000 GF 2.440500000 GF 2.440500000 GF 2.442500000 GF 2.442500000 GF CF Ste 200.000 kF Auto Ma
10 11 MSG Agilent Spect X RL Center F 10 dB/div Center F 10 0 0.00 10.0 -20.0 -70.0 -40.0 -50.0 -60.0 -70.0 Start 2.44 #Res BW MKR MODE T 1 A2 F	Ref Offset 7. Ref 2.44150 Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ept 5A AC PN: PN: IFG D1 dB dBm 	Z 0: Wide → ain:Low 2~~ \\ \\ 2~~ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	SENSE → Trig: Free #Atten: 30	E:PULSE	#Avg Typ Avg Hold	SFSK_2	441 102:43:541 TRA TRA C Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	MDec 25, 2017 ME [1 2 3 4 5 6 YPE [1 2 3 4 5 6 YPE [1 2 3 4 5 6 MWWWWW Det [2 3 4 5 6 982 kHz 0.002 dB 1 1 2 2500 GHz (1001 pts)	Auto Tur Center Fre 2.441500000 GF 2.440500000 GF 2.440500000 GF 2.442500000 GF 2.442500000 GF CF Ste 200.000 kF Auto Ma

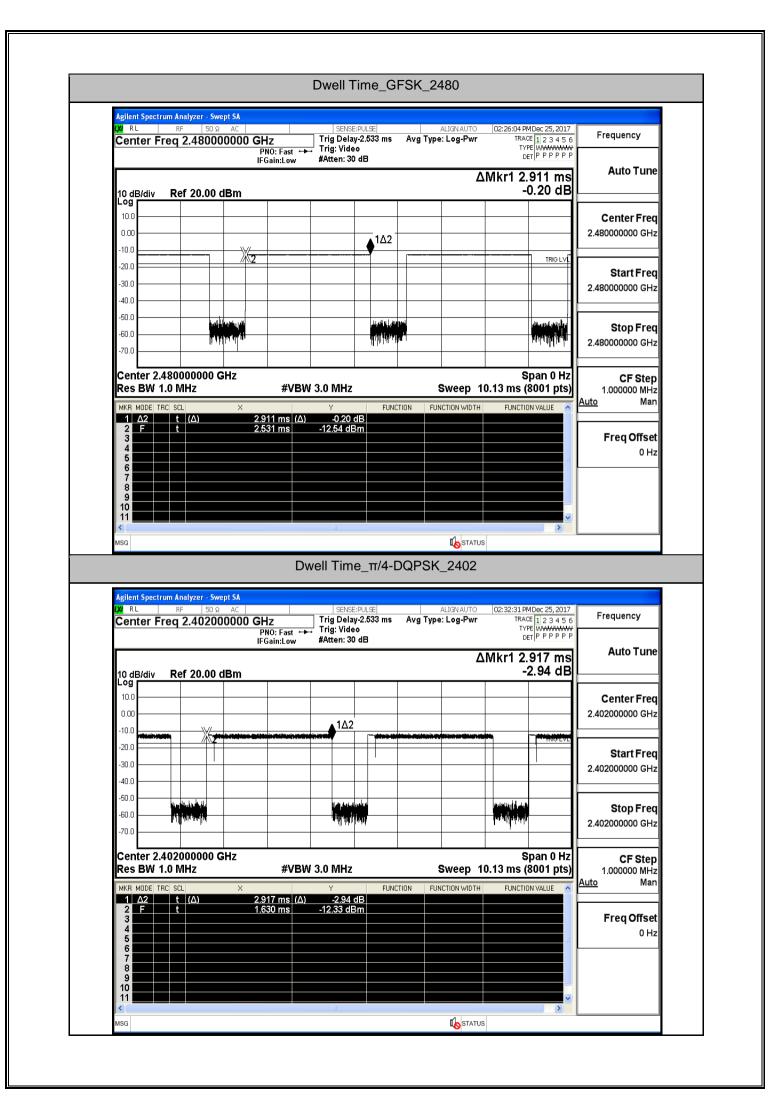
Frequency	Dec 25, 2017	TRAC		#Avg Typ	SENSE:PULS	łz	AC	m Analyzer - Swe RF 50 Ω eq 2.47950	XI RL
Auto Tur	22 MHz 039 dB	1kr1 1.3		Avg Hold	^J Trig: Free Run #Atten: 30 dB	NO: Wide ↔ Gain:Low	1F 01 dB	Ref Offset 7.0	
Center Fre	009 08	-0.					1Bm	Ref 20.00 (10 dB/div Log 10.0
2.479500000 GH		1Δ2				Mon		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-10.0
Start Fre	Warmer V	·		- All	www.www	v. v.		and a second	-20.0
2.478500000 GH									-30.0
Stop Fre									-50.0
2.480500000 GH									-70.0
CF Stej 200.000 kH	001 pts)	top 2.480 .000 ms (′			300 kHz	#VBW			Start 2.47 #Res BW
<u>Auto</u> Ma	N VALUE	FUNCTIO	NCTION WIDTH	UNCTION FU	⊻ -0.039 dB	2 MHz (Δ)		sαL f (Δ)	MKR MODE TP
Freq Offse 0 H					-5.428 dBm	6 GHz	2.478 8	f	2 F 3 4
									5 6 7
									8 9 10
	~								
									11
			I o STATUS						
			-	ion_π/4-	ency Sepa	er Frequ			11 < IISG
Frequency	Dec 25, 2017	2402 02:47:55 PM	DQPSK		ency Sepa		ept SA AC		Agilent Spectr
	Dec 25, 2017 1 2 3 4 5 6 M WWWWW T P P P P P P	2402 02:47:55 PM TRAC TYP	DQPSK ALIGN AUTO e: RMS				ept SA AC 100000 G		Agilent Spectr
	123456 EM WWWWW TPPPPPP	2402 02:47:55 PM TRAC TYP DE ΔMkr1 9	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	1z 10: Wide ↔►	ept SA AC 100000 G P IF 101 dB	RF 50 Ω eq 2.40250 Ref Offset 7.0	Agilent Spectr XI RL Center Fi
Auto Tun	123456 M WWWW TPPPPPP	2402 02:47:55 PM TRAC TYP DE ΔMkr1 9	ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	1z 10: Wide ↔►	ept SA AC 100000 G P IF 101 dB	RF 50 Ω eq 2.40250	Agilent Spectr
Auto Tun Center Free	123456 MWWWWW PPPPPP 60 kHz 398 dB	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S 	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	Iz 10: Wide ↔ Sain:Low	ept SA AC 100000 G P IF 101 dB	RF 50 Ω eq 2.40250 Ref Offset 7.0	Agilent Spectr X RL Center Fi 10 dB/div Log 10.0 0.00
Auto Tun Center Fre 2.402500000 GH	123456 M WWWW TPPPPPP	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S 	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	1z 10: Wide ↔►	2pt SA AC 00000 G P IF D1 dB dBm	RF 50 Ω eq 2.40250 Ref Offset 7.0	11
Auto Tun Center Fre 2.40250000 GH Start Fre	123456 MWWWWW PPPPPP 60 kHz 398 dB	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S 	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	Iz 10: Wide ↔ Sain:Low	2pt SA AC 00000 G P IF D1 dB dBm	RF 50 Ω eq 2.40250 Ref Offset 7.0	Agilent Spectr Agilent Spectr X RL Center Fr 10 dB/div Log 10.0 0.00 -10.0
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH	123456 MWWWWW PPPPPP 60 kHz 398 dB	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S 	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	Iz 10: Wide ↔ Sain:Low	2pt SA AC 00000 G P IF D1 dB dBm	RF 50 Ω eq 2.40250 Ref Offset 7.0	11
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre	123456 MWWWWW PPPPPP 60 kHz 398 dB	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S 	DQPSK ALIGN AUTO e: RMS : 10/10	#Avg Typ	SENSE:PULS	Iz 10: Wide ↔ Sain:Low	2pt SA AC 00000 G P IF D1 dB dBm	RF 50 Ω eq 2.40250 Ref Offset 7.0	11 Agilent Spectr Arsc Arsc X RL Center Fi Center Fi 10.0 0.00 -10.0
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH CF Stej	12 3 4 5 6 MWWWWW 1P P P P P P 60 kHz 398 dB 000 cm 500 GHz	2402		#Avg Typ Avg Hold	SENSE:PULS	Iz IO: Wide → Sain:Low	2pt SA AC 00000 G P IF D1 dB dBm	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (11 Agilent Spectr Arsc Arsc Arsc Center Fi 10 dB/div Center Fi 10.0 0.00 -10.0
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH CF Stej 200.000 kH	123456 MENTION 1001 pts)	 02:47:55 PM TRAC TYP DE ΔMkr1 9 -1.		#Avg Typ Avg Hold	SENSE:PULS Trig: Free Run #Atten: 30 dB	Iz IO: Wide → Sain:Low	ept SA AC 100000 G P IF P IF P IF AC P IF AC P IF AC AC AC AC AC AC AC AC AC AC	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (11 Agilent Spectr Msg RL Center Fi 10 dB/div 10.0
Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma	123456 MENTION 1001 pts)	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S -1. 0.000 ms (²)	ALIGNAUTO e: RMS : 10/10	#Avg Typ Avg Hold	SENSE:PULS	Iz 10: Wide → Sain:Low 4 4 4 5 4 4 4 4 4 5 0 KHzl (Δ)	ept SA AC 100000 G P IF P IF P IF AC P IF AC P IF AC AC AC AC AC AC AC AC AC AC	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 of 1500 GHz 100 kHz	11 Agilent Spectr Arsi RL 20 Center Fi 10 G 10.0 0.00 -10.0
Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.403500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma	123456 MENTION 1001 pts)	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S -1. 0.000 ms (²)	ALIGNAUTO e: RMS : 10/10	#Avg Typ Avg Hold	SENSE:PULS	Iz 10: Wide → Sain:Low 4 4 4 5 4 4 4 4 4 5 0 KHzl (Δ)	ept SA AC 00000 Gi P If IBM AB AB AB AB AB AB AB AB AB AB	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (11
Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.403500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma	123456 MENTION 1001 pts)	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S -1. 0.000 ms (²)	ALIGNAUTO e: RMS : 10/10	#Avg Typ Avg Hold	SENSE:PULS	Iz 10: Wide → Sain:Low 4 4 4 5 4 4 4 4 4 5 0 KHzl (Δ)	ept SA AC 00000 Gi P If IBM AB AB AB AB AB AB AB AB AB AB	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (11
Auto Tune Center Free 2.402500000 GH: 2.401500000 GH: 2.401500000 GH: 2.403500000 GH: 2.403500000 GH: CF Step 200.000 kH:	123456 MENTION 1001 pts)	2402 02:47:55 PM TRAC TYP DE ΔMkr1 S -1. 0.000 ms (²)	ALIGNAUTO e: RMS : 10/10	#Avg Typ Avg Hold	SENSE:PULS	Iz 10: Wide → Sain:Low 4 4 4 5 4 4 4 4 4 5 0 KHzl (Δ)	ept SA AC 00000 Gi P If IBM AB AB AB AB AB AB AB AB AB AB	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (11

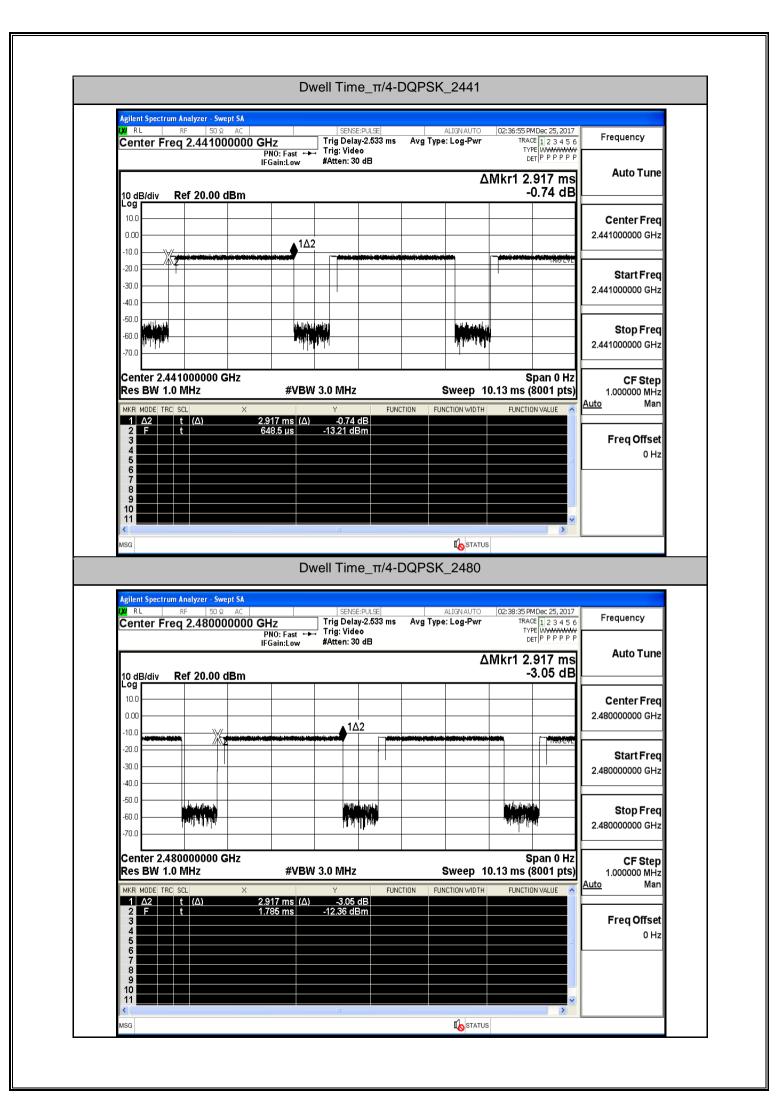
RL RF 50 Ω Center Freq 2.44150	pt SA AC SENSE: 0000 GHz	#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 7.0 10 dB/div Ref 20.00 d			ΔMkr1 994 kHz 0.235 dB	Auto Tu
			1Δ2	Center Fr 2.441500000 GI
-20.0			AND a rade had served a	Start Fre 2.440500000 Gi
-50.0 -60.0 -70.0				Stop Fro 2.442500000 GF
Start 2.440500 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 2.442500 GHz 1.000 ms (1001 pts)	CF Ste 200.000 kł <u>Auto</u> Ma
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	994 kHz (Δ) 0.235 c 2.441 068 GHz -8.992 dB			Freq Offs 0 F
8 9 10 11			×	
MSG	Carrier Frequency Se	statt paration_π/4-DQPSI		
Agilent Spectrum Analyzer - Swep (χ) RL RF 50 Ω Center Freq 2.479500	AC SENSE:	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
	IFGain:Low #Atten: 30	dB	DETPPPP	
Ref Offset 7.0 ⁴ 10 dB/div Ref 20.00 d			Mkr1 1.160 MHz 0.048 dB	Auto Tur
10 dB/div Ref 20.00 d	Bm		0.048 dB	Auto Tur Center Fre 2.479500000 GH
10 dB/div Ref 20.00 d Log 10.0 0.00	Bm	Δ 	0.048 dB	Center Fre 2.479500000 GH Start Fre
10 dB/div Ref 20.00 d 10.0 10.0 -10.0 -20.0 -30.0	Bm		0.048 dB	Center Fre
10 dB/div Ref 20.00 d 10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -5	Bm And Same and Sa Same and Same and S		0.048 dB	Center Fre 2.479500000 GF Start Fre 2.478500000 GF Stop Fre
10 dB/div Ref 20.00 d 10.0 1	Bm		0.048 dB	Center Fre 2.479500000 GF Start Fre 2.478500000 GF Stop Fre 2.480500000 GF CF Ste 200.000 kF

A.4 Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
	2402	2.91	106.7	0.31	0.4	PASS
GFSK	2441	2.91	106.7	0.31	0.4	PASS
	2480	2.91	106.7	0.31	0.4	PASS
	2402	2.92	106.7	0.312	0.4	PASS
π/4-DQPSK	2441	2.92	106.7	0.312	0.4	PASS
	2480	2.92	106.7	0.312	0.4	PASS

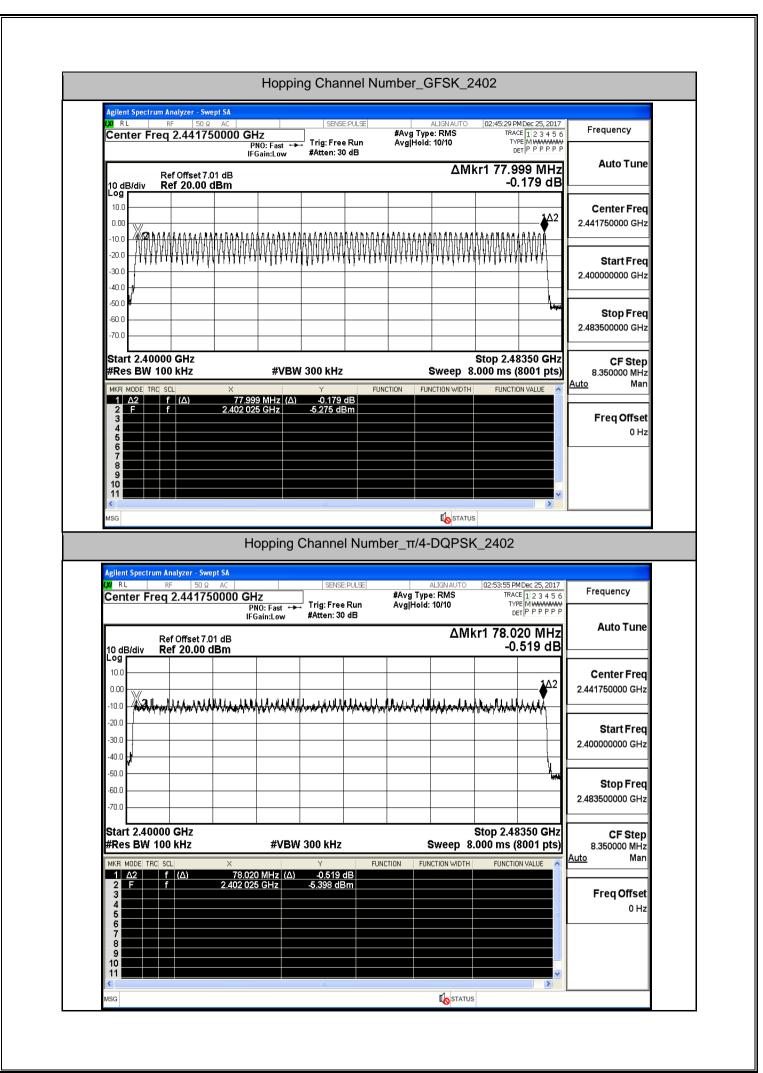






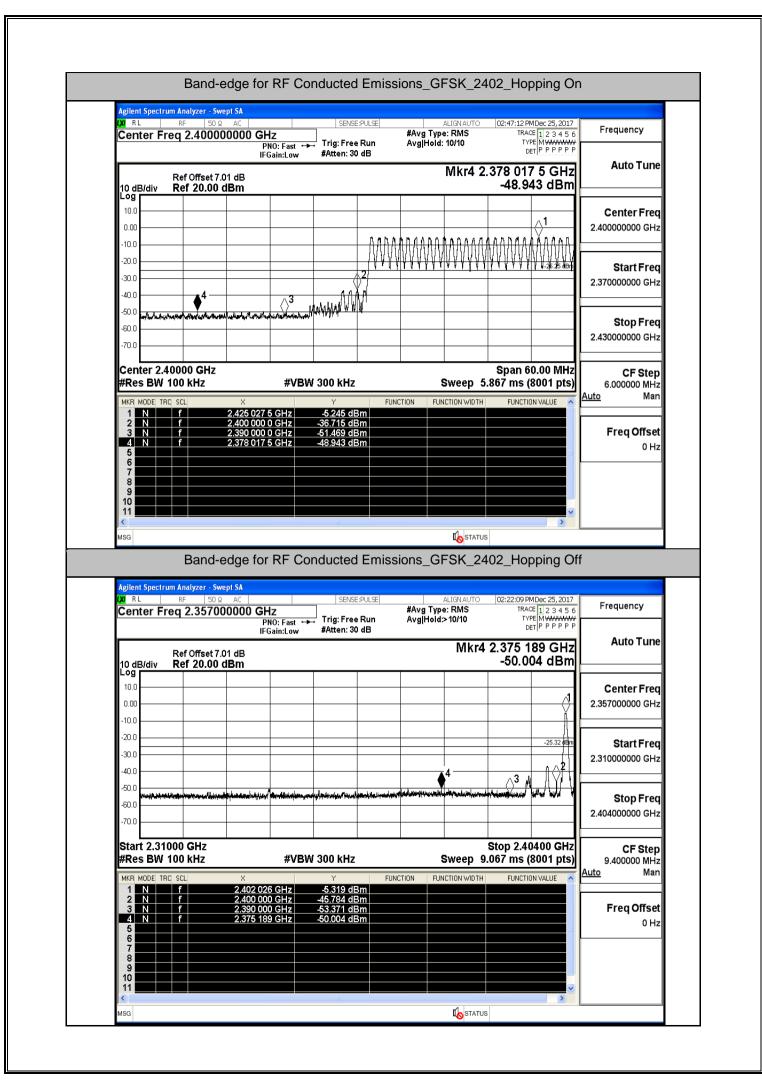
A.5 Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	2402	79	>=15	PASS
π/4-DQPSK	2402	79	>=15	PASS

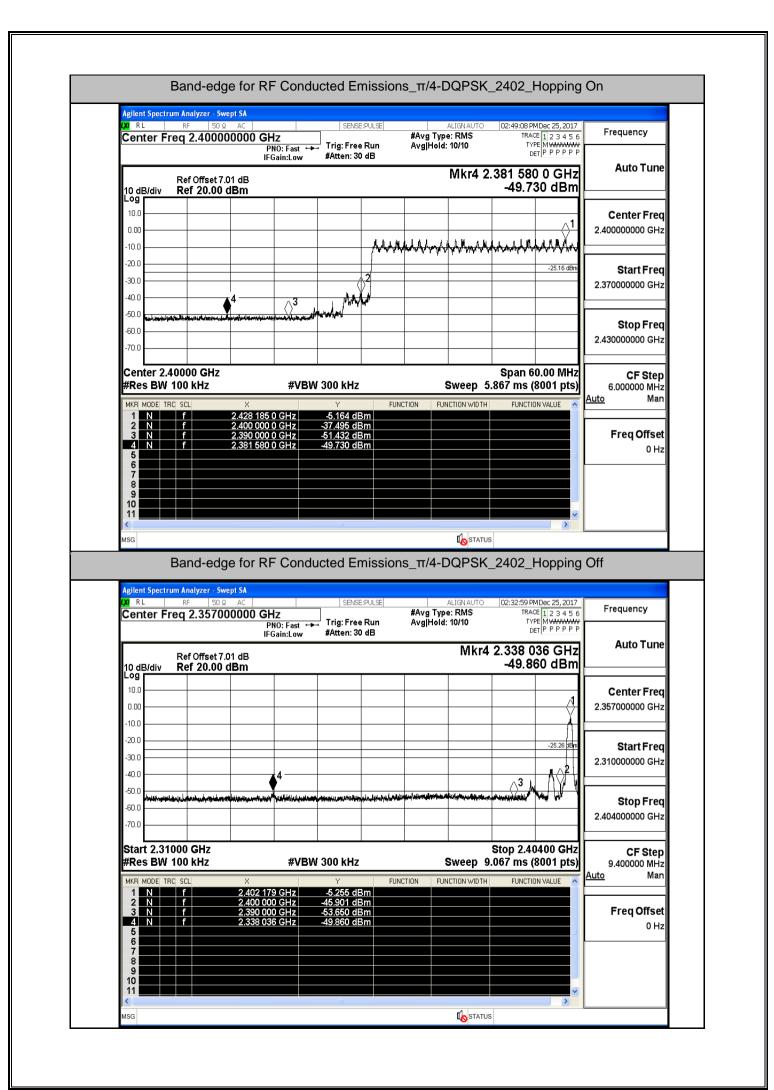


A.6 Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
	2402	On	-5.245	-48.943	-25.25	PASS
GFSK	2402	Off	-5.319	-50.004	-25.32	PASS
GFSK	2480	On	-5.328	-49.421	-25.33	PASS
	2480	Off	-5.432	-50.427	-25.43	PASS
	2402	On	-5.164	-49.730	-25.16	PASS
π/4-DQPSK	2402	Off	-5.255	-49.860	-25.26	PASS
11/4-DQF3N	2480	On	-5.287	-42.251	-25.29	PASS
	2480	Off	-5.332	-49.265	-25.33	PASS

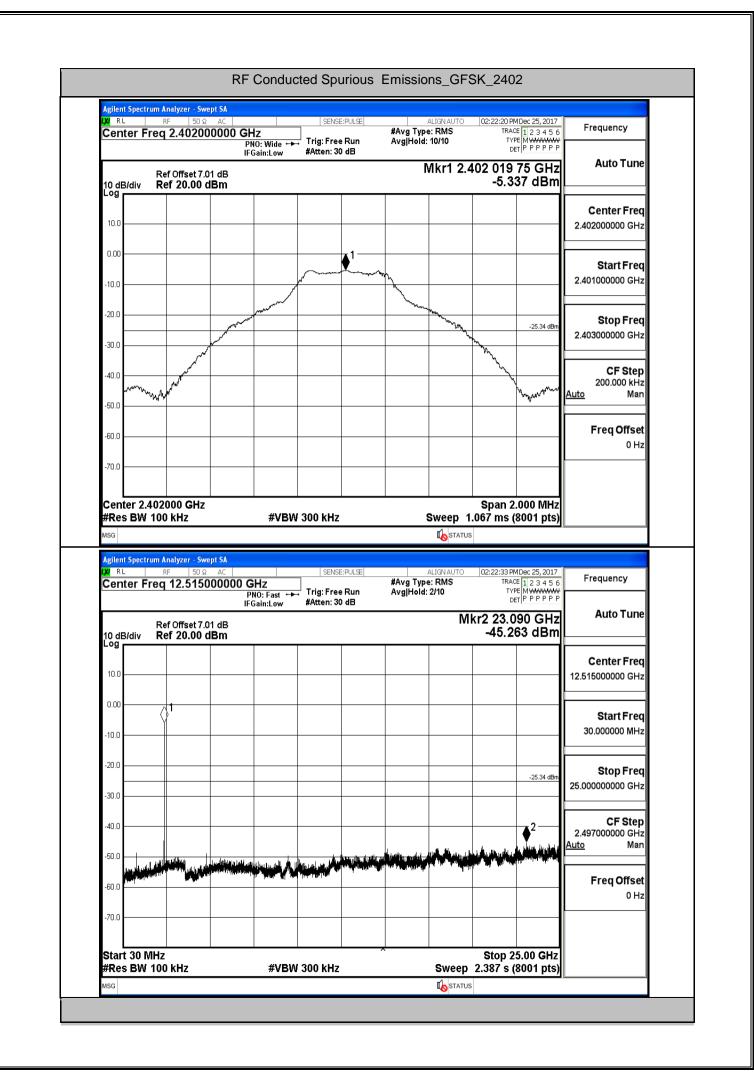


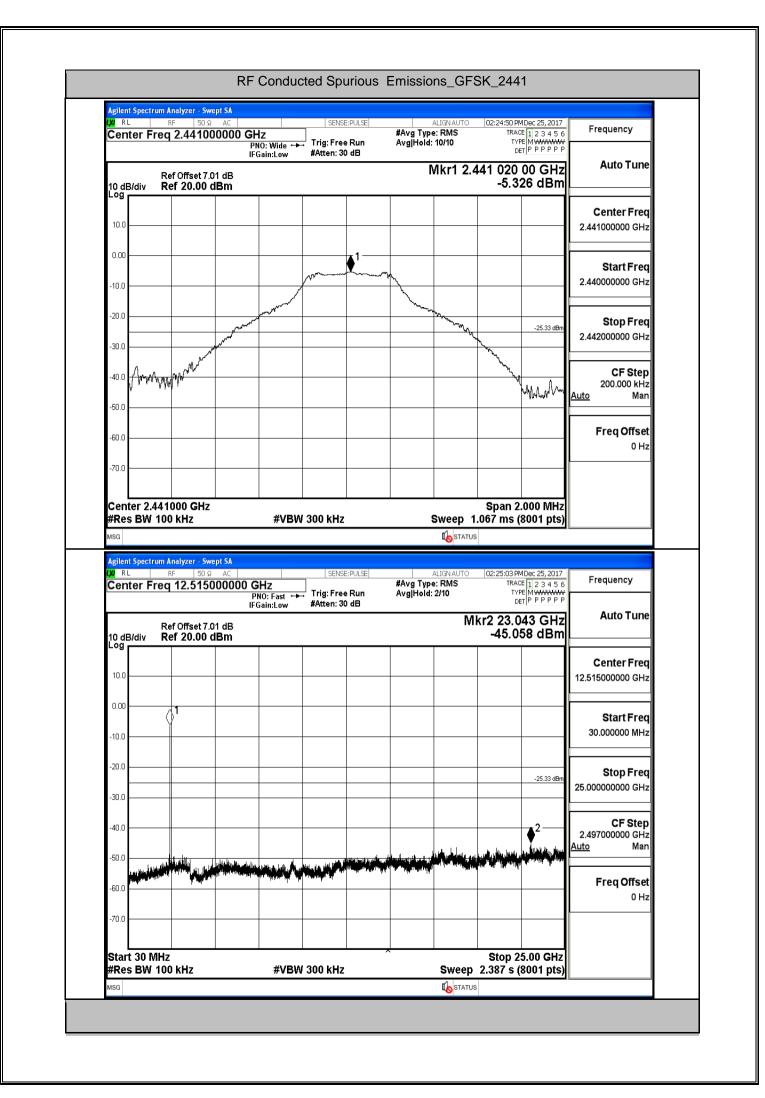
Frequency	02:44:46 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE → Trig: Free Run #Atten: 30 dB		50 Ω A 2.4835000		Cent
Auto Tun	491 045 0 GHz -49.421 dBm	Mkr4 2.4			f Offset 7.01 d f 20.00 dBr		10 dE
Center Free 2.483500000 GH			0440	1 A A A A A A A A A A A A	<u>.</u>	1 1	Log 10.0 0.00
Start Fred 2.453500000 GH:	-25.33 dBm				₩₩₩₩₩		-20.0 -30.0 -40.0
Stop Fred 2.513500000 GH	ang the state of the second	himmed and the second states					-40.0 -50.0 -60.0 -70.0
CF Step 6.000000 MHz	Span 60.00 MHz 867 ms (8001 pts)	Sweep 5.3	W 300 kHz	#VBW		ter 2.483 s BW 10	Cent
Auto Mar Freq Offse 0 H:	FUNCTION VALUE	UNCTION FUNCTION WIDTH	Y FL -5.328 dBm -51.560 dBm -52.067 dBm -49.421 dBm	4 025 0 GHz 3 500 0 GHz 0 000 0 GHz 1 045 0 GHz	2.4 2.4 2.5	N 1	
	×	I status					6 7 9 10 11 <
Frequency	80_Hopping Off	SSIONS_GFSK_24	SENSE:PULSE	0 GHz	Band-edg alyzer - Swept S 50 Q A 2.4890000	.	7 8 9 10 11 × MSG Agilent
Frequency	80_Hopping Off 02:26:33 PMDec 25, 2017 TRACE 1 2 3 4 5 6	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	0 GHz PNO: Fast ↔ IFGain:Low	<mark>alyzer - Swept S</mark> 50 Ω Af	ter Freq	7 8 9 10 11 × MSG Agilent
Frequency Auto Tune Center Frec	80_Hopping Off 02:26:33 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P 99 529 75 GHz	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	0 GHz PNO: Fast ↔ IFGain:Low	alyzer - Swept S 50 Ω A 2.4890000	ter Freq	7 8 9 10 11 × Agilent × Cent
	80_Hopping Of 02:26:33 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P 99 529 75 GHz	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	O GHz PN0: Fast ↔ IFGain:Low	alyzer - Swept S 50 Ω A 2.4890000	ter Freq	7 8 9 9 10 11 ≪ ■ MSG 10 dE Cent
Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq	80_Hopping Off 02:26:33 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 99 529 75 GHz -50.427 dBm	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	0 GHz PNO: Fast ↔ IFGain:Low	alyzer - Swept S 50 Ω A 2.4890000	ter Freq	7 8 9 10 11 11
Frequency Auto Tune Center Frec 2.48900000 GHz Start Frec 2.47800000 GHz Stop Frec	80_Hopping Off 02:26:33 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE M WWWW DET P P P P P P 99 529 75 GHz -50.427 dBm -25.43 dBm	Sions_GFSK_24	SENSE:PULSE	O GHz PN0: Fast ↔ IFGain:Low	alyzer - Swept S 50 2 At 2.4890000 f Offset 7.01 d f 20.00 dBr 1 1 1 6 GHz kHz	ter Freq	Agilent 10 11 ≤ 9 11 ≤ MSG Cent 10.0 Con 10.0 .000 -10.0 .000 -20.0 .30.0 -40.0 .50.0 -50.0 .70.0 Start #Res

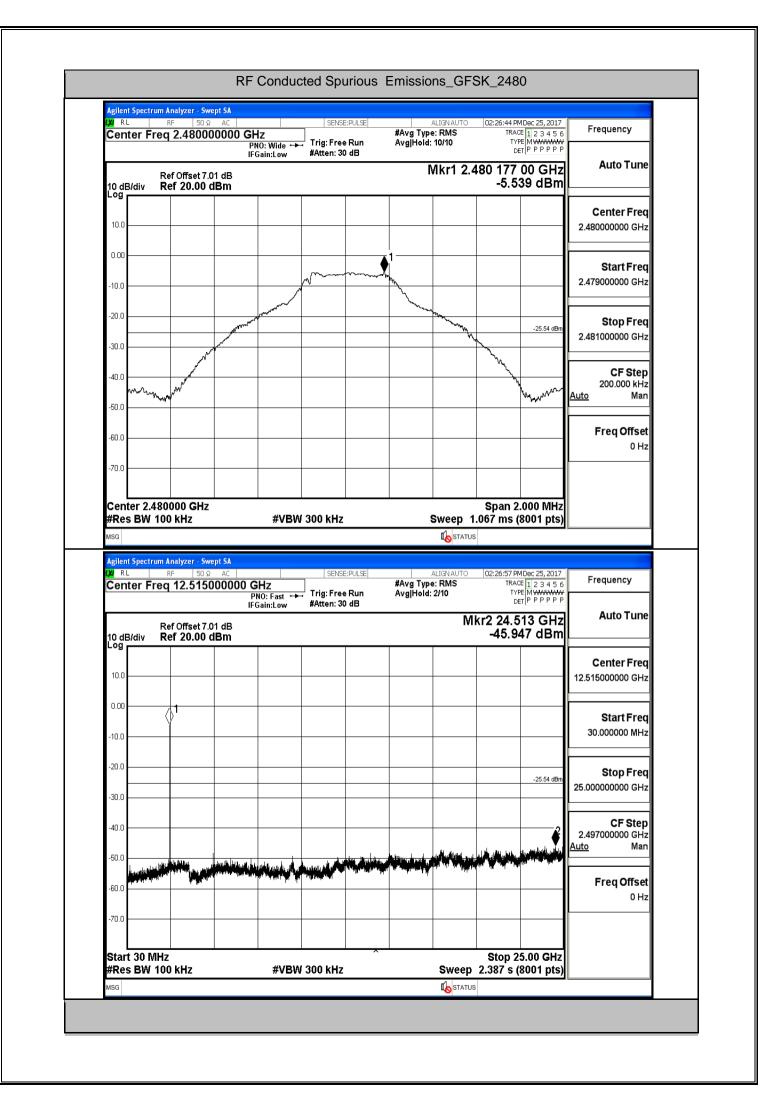


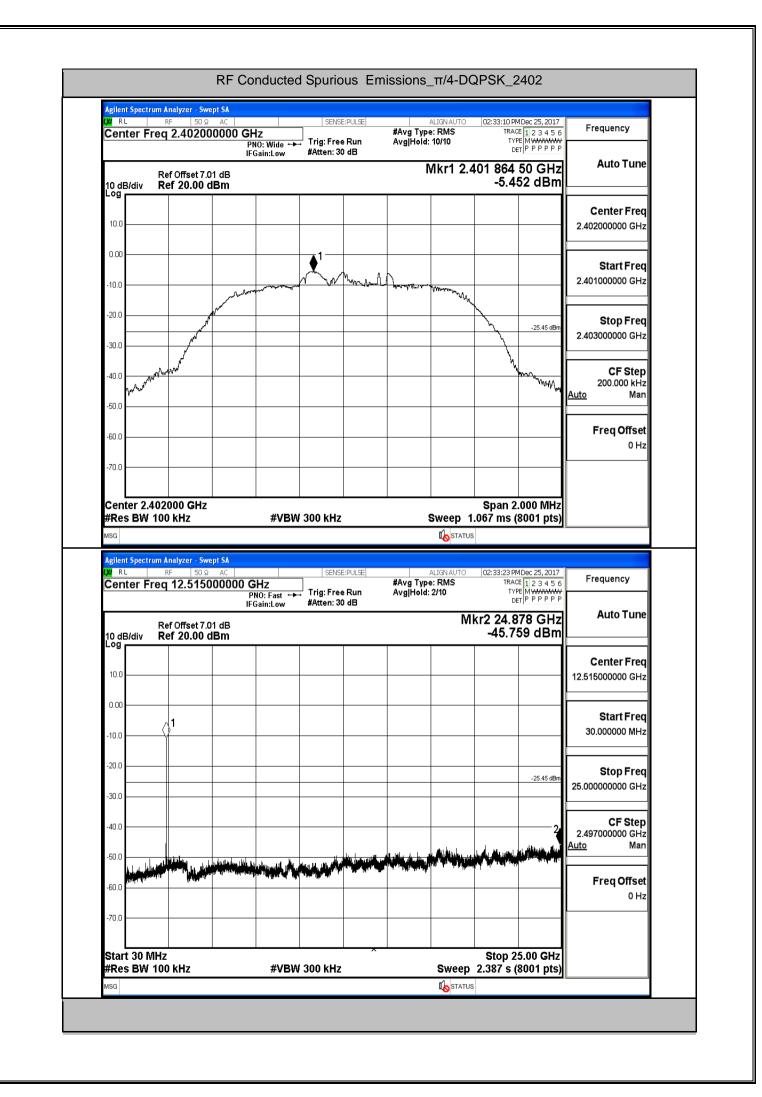
Frequency	02:51:07 PM Dec 25, 2017 TRACE 1 2 3 4 5 6	ALIGNAUTO		SENSE		AC	nalyzer - Swe F 50 Ω 2.48350	-
Auto Tune		Mkr4 2.4		J Trig: Free #Atten: 30	NO: Fast ↔ Gain:Low	PI IFC	ef Offset 7.0	
	-42.251 dBm					Bm	ef 20.00 d	3/div R
Center Fred 2.483500000 GHz				1.1	Ma h A ki J	J. L A A	1 	طيع الم ا
Start Fred	-25.29 dBm				M.M.M.M.M.M.M	, Maria 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	and a subsection of the	ግም አ ብ አሳሌ የረጉ
2.453500000 GHz	11111		4	1 1				
Stop Fred 2.513500000 GHz	lkul kurlan kurun lajar pangal karanan s	المرابع العالمة المرابق المحمط	اريد فيما ليكافينا لديا لعاولهما الم	and the second se				
CF Step	Span 60.00 MHz							ter 2.483
6.000000 MHz <u>Auto</u> Man	867 ms (8001 pts)	Sweep 5.8	FUNCTION	/ 300 kHz ⊻ -5.287 dB		× 2.459 185 (CL	S BW 10
Freq Offset 0 Hz				-51.426 dB -44.163 dB -42.251 dB	0 GHz 0 GHz	2.439 183 2.483 500 (2.500 000 (2.487 025 (N 1
	×	I STATUS		m				
Off			ssions_π	ucted En	F Cond	e for RF	ind-edge	Ba
1	2480_Hopping	DQPSK_	.92			pt SA AC	<mark>nalyzer - Swe</mark> F 50 Ω	t Spectrum /
Frequency	2480_Hopping	DQPSK_	.SE #Av In Avg	SENSE:		pt SA AC 0000 GH PI	nalyzer - Swe	t Spectrum /
Frequency	2480_Hopping	ALIGNAUTO rpe: RMS id: 10/10	.SE #Av In Avg	SENSE:	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB	<mark>nalyzer - Swe</mark> F 50 Ω	t Spectrum / - ter Frec R
Frequency Auto Tune Center Freq	2480_Hopping	ALIGNAUTO rpe: RMS id: 10/10	.SE #Av In Avg	SENSE:	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB	nalyzer - Swe	t Spectrum / - ter Frec R
Frequency Auto Tune Center Freq	2480_Hopping	ALIGNAUTO rpe: RMS id: 10/10	.SE #Av In Avg	SENSE:	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB	nalyzer - Swe 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1	t Spectrum / - ter Frec R
1	2480_Hopping	ALIGNAUTO rpe: RMS id: 10/10	.SE #Av In Avg	SENSE:	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB	nalyzer - Swe 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1	t Spectrum / - ter Frec B/div R
Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.478000000 GHz	2480_Hopping	ALIGNAUTO APPE: RMS d: 10/10 Mkr4 2.41	.SE / #Av in Avg }	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB	nalyzer - Swe 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1	t Spectrum / - ter Frec B/div R
Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.47800000 GHz Stop Freq	2480_Hopping	ALIGNAUTO APPE: RMS d: 10/10 Mkr4 2.41	.SE / #Av in Avg }	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔	pt SA AC 0000 GH PI IFC 1 dB Bm	nalyzer - Swe F 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1	t Spectrum / - ter Frec B/div R
Frequency Auto Tune Center Frec 2.48900000 GHz 2.478000000 GHz 2.478000000 GHz 2.500000000 GHz 2.500000000 GHz 2.50000000 GHz 2.200000 MHz	2480_Hopping	ALIGNAUTO rpe: RMS d: 10/10 Mkr4 2.44	.SE / #Av in Avg }	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔ Gain:Low	pt SA AC 0000 GH PI IFC 1 dB Bm	nalyzer - Swe F 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1 1 5,48900 ef 20.00 d 1 5,48900 ef 20.00 d 1 5,48900 ef 20.00 d 1 5,48900 0 d 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,48900 1 5,480000 1 5,480000 1 5,480000 1 5,480000 1 5,480000 1 5,480000 1 5,480000 1 5,480000 1 5,4800000 1 5,4800000 1 5,48000000000 1 5,48000000000000000000000000000000000000	t Spectrum / - ter Frec B/div R
Frequency Auto Tune Center Frequency 2.489000000 GHz Start Frequency 2.478000000 GHz Stop Frequency 2.500000000 GHz 2.50000000 GHz CF Step 2.200000 MHz	2480_Hopping	ALIGNAUTO rpe: RMS d: 10/10 Mkr4 2.44	.SE #Ay in Avg 3 	SENSE: Trig: Free #Atten: 30	Hz N0: Fast ↔ Gain:Low 4 4 #VBV	pt SA AC D0000 GH PI IFC 1 dB Bm 2 ~	nalyzer - Swe 50 Q 2.48900 ef Offset 7.0 ef 20.00 d 1 1 0 GHz 0 GHz 0 KHz 2	t Spectrum / ter Frec B/div R // // // // // // / / // / // / / / /
Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.47800000 GHz Stop Freq 2.50000000 GHz CF Step 2.200000 MHz Auto Man Freq Offset	2480_Hopping	ALIGNAUTO rpe: RMS d: 10/10 Mkr4 2.41 Mkr4 2.41 Mkr4 2.41 Sweep 2.7	.SE #Ay in Avg 3 	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔ Gain:Low 4 4 #VBV	pt SA AC DOUOU GH PI IFC 1 dB Bm	nalyzer - Swe F 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 1 1 1 1 1 1 1 1 1 1 1	t Spectrum / ter Frec B/div R // // // // // // // // // // // // //
Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.47800000 GHz Stop Freq 2.50000000 GHz CF Step 2.200000 MHz Auto Man Freq Offset	2480_Hopping	ALIGNAUTO rpe: RMS d: 10/10 Mkr4 2.41 Mkr4 2.41 Mkr4 2.41 Sweep 2.7	.SE #Ay in Avg 3 	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔ Gain:Low 4 4 #VBV	Pt SA AC DOUOD GH PI IFC 1 dB Bm 	nalyzer - Swe F 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 1 1 1 1 1 1 1 1 1 1 1	t Spectrum / ter Frec B/div R ////////////////////////////////////
Frequency Auto Tune Center Freq 2.489000000 GHz Start Freq 2.478000000 GHz 2.500000000 GHz 2.500000000 GHz CF Step 2.200000 MHz	2480_Hopping	ALIGNAUTO rpe: RMS d: 10/10 Mkr4 2.41 Mkr4 2.41 Mkr4 2.41 Sweep 2.7	.SE #Ay in Avg 3 	SENSE: Trig: Free #Atten: 30	Hz NO: Fast ↔ Gain:Low 4 4 #VBV	Pt SA AC DOUOD GH PI IFC 1 dB Bm 	nalyzer - Swe F 50 Ω 2.48900 ef Offset 7.0 ef 20.00 d 1 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 50 Ω 1 50 Ω 1 1 1 1 1 1 1 1 1 1 1 1 1	t Spectrum / ter Frec B/div R ////////////////////////////////////

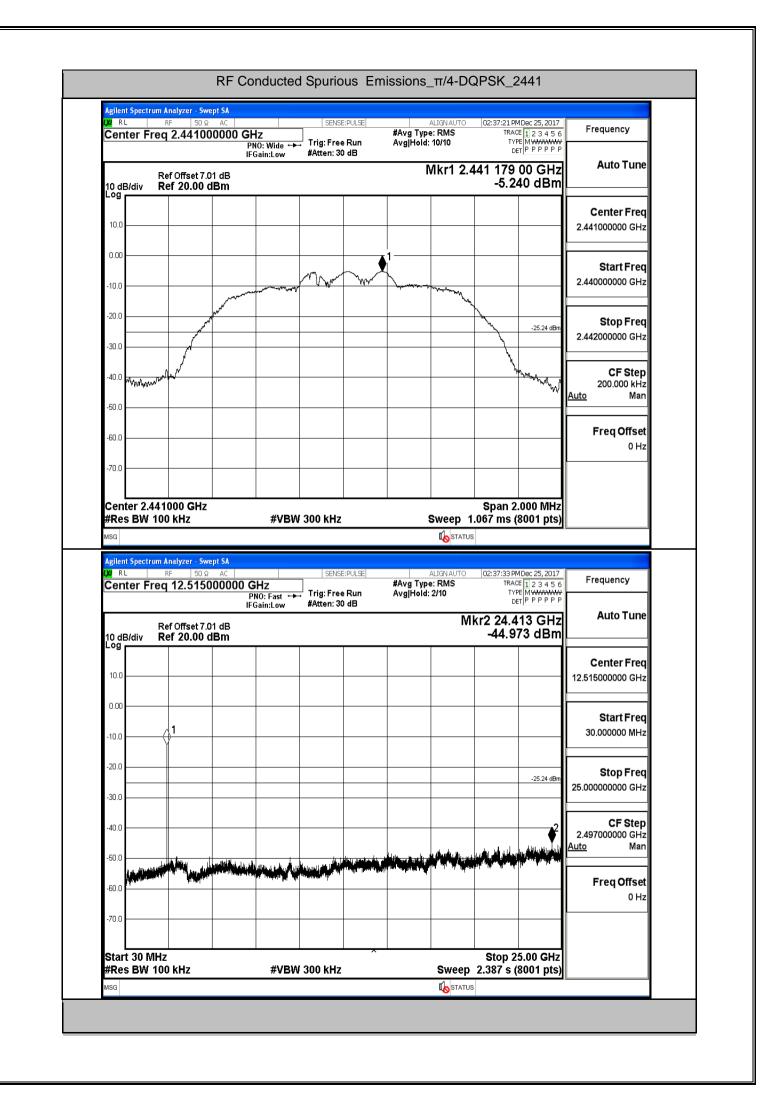
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	2402	30	25000	100	300	-5.337	-45.263	<- 25.337	PASS
GFSK	2441	30	25000	100	300	-5.326	-45.058	<- 25.326	PASS
	2480	30	25000	100	300	-5.539	-45.947	<- 25.539	PASS
	2402	30	25000	100	300	-5.452	-45.759	<- 25.452	PASS
π/4- DQPSK	2441	30	25000	100	300	-5.24	-44.973	<-25.24	PASS
	2480	30	25000	100	300	-5.361	-45.845	<- 25.361	PASS

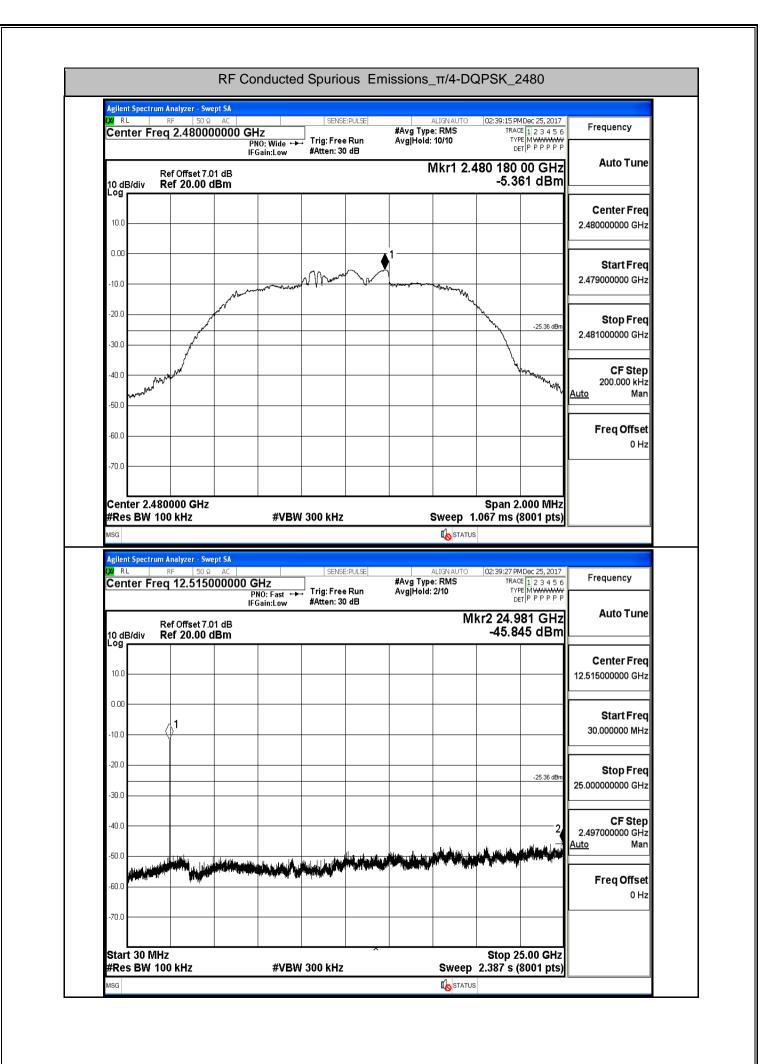












Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.75	-0.68	0	54.51	PEAK	74	PASS
	Off	2310.0	-55.02	-0.68	0	42.24	AV	54	PASS
	Off	2390.0	-41.40	-0.68	0	55.86	PEAK	74	PASS
GFSK	Off	2390.0	-54.78	-0.68	0	42.48	AV	54	PASS
GFSK	Off	2483.5	-42.53	-0.68	0	54.73	PEAK	74	PASS
	Off	2483.5	-53.53	-0.68	0	43.73	AV	54	PASS
	Off	2500.0	-43.91	-0.68	0	53.35	PEAK	74	PASS
	Off	2500.0	-53.81	-0.68	0	43.44	AV	54	PASS
	Off	2310.0	-44.44	-0.68	0	52.82	PEAK	74	PASS
	Off	2310.0	-55.24	-0.68	0	42.02	AV	54	PASS
	Off	2390.0	-43.14	-0.68	0	54.12	PEAK	74	PASS
π/4-	Off	2390.0	-54.79	-0.68	0	42.47	AV	54	PASS
DQPSK	Off	2483.5	-43.46	-0.68	0	53.79	PEAK	74	PASS
	Off	2483.5	-53.90	-0.68	0	43.35	AV	54	PASS
	Off	2500.0	-43.01	-0.68	0	54.25	PEAK	74	PASS
	Off	2500.0	-53.79	-0.68	0	43.46	AV	54	PASS

Agilent Spectrum Analyzer - Sw LXI RL RF 50 ជ	Pept SA	SENSE:PULSE	ALIGN AUTO	04:53:26 PM Dec 25, 2017	
Marker 3 2.3100000			Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWM DET P N N N N	F Trace/Detector
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-10.0 -20.0 -30.0 -40.0		بر الراهر اس معرب مراجع معرار الراب مراجع			Trace Averag
-50.0					Max Hol
Start 2.30000 GHz Res BW 1.0 MHz	#VB\	N 3.0 MHz		Stop 2.40400 GHz 000 ms (1001 pts)	
1 N f 2 N f 3 N f 4 5 6	2.402 024 GHz 2.390 000 GHz 2.310 000 GHz	-5.262 dBm -41,396 dBm -42.750 dBm			View Blank Trace On
7 8 9 9 10 11					Moi 1 of
Restrict-b	and band-edge	e measuremen	ts_Hopping Off_	>	ge
MSG	rept SA	SENSE:PULSE	ts_Hopping Off_ ALIGNAUTO Avg Type: Log-Pwr	GFSK_Avera	Trace/Detector
Restrict-b	PNO: Fast C IFGain:Low	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100	GFSK_Avera	5 Trace/Detector
Agilent Spectrum Analyzer - SW MSG Agilent Spectrum Analyzer - SW MZ RL RF 50 G Video BW 10 Hz Ref Offset 7. 10 dB/div Ref 20.00 10.0 0.00	PNO: Fast C IFGain:Low	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100	GFSK_Avera	Select Trace
Agilent Spectrum Analyzer - Sw Q2 RL RF 50 Ω Video BW 10 Hz Ref Offset 7. 10 dB/div Ref 20.00 10.0	PNO: Fast C IFGain:Low	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100	GFSK_Avera	5 Trace/Detector Select Trace 1 Clear Writ
Agilent Spectrum Analyzer - Sw 07 RL RF 50 % Video BW 10 Hz Ref Offset 7. 10 dB/div Ref 20.00 10.0	PNO: Fast C IFGain:Low	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100	GFSK_Avera	Trace/Detector Select Trace 1 Clear Writ Trace Average
Restrict-b Agilent Spectrum Analyzer - Sw Ref 50 G Video BW 10 Hz Video BW 10 Hz Ref Offset 7. 10 dB/div Ref 20.00 10.0	PNO: Fast PNO: Fast <t< td=""><td>SENSE:PULSE</td><td>ts_Hopping Off_ Avg Type: Log-Pwr AvgIHold: 2/100 Mkr3</td><td>GFSK_Avera</td><td>5 Trace/Detector Select Trace 1 Clear Writ Trace Average Max Hol</td></t<>	SENSE:PULSE	ts_Hopping Off_ Avg Type: Log-Pwr AvgIHold: 2/100 Mkr3	GFSK_Avera	5 Trace/Detector Select Trace 1 Clear Writ Trace Average Max Hol
Restrict-b Agilent Spectrum Analyzer - Sw X RF 50 g Video BW 10 Hz Ref Offset 7. I0 dB/div Ref Offset 7. Log Ref Offset 7. 10 dB/div Ref 20.00 <td>PNO: Fast G IFGain:Low 01 dB dBm</td> <td>SENSE:PULSE</td> <td>ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100 Mkr3</td> <td>GFSK_Avera</td> <td></td>	PNO: Fast G IFGain:Low 01 dB dBm	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 2/100 Mkr3	GFSK_Avera	
Restrict-b Agilent Spectrum Analyzer - Sw XX RF 50 S Video BW 10 Hz Ref Offset 7. I0 dB/div Ref 20.00 10 dB/div Ref 20.00 10.0	rept SA :: AC PNO: Fast IFGain:Low 01 dB dBm IFGain:Low 01 dB dBm IFGain:Low IFGain:Low <td>SENSE:PULSE</td> <td>ts_Hopping Off_ Avg Type: Log-Pwr AvgIHold: 2/100 Mkr3</td> <td>GFSK_Avera</td> <td>Trace/Detector Select Trace 1 Clear Writ Trace Averag Max Hol Min Hol View Blank Trace On 1 of</td>	SENSE:PULSE	ts_Hopping Off_ Avg Type: Log-Pwr AvgIHold: 2/100 Mkr3	GFSK_Avera	Trace/Detector Select Trace 1 Clear Writ Trace Averag Max Hol Min Hol View Blank Trace On 1 of

Agilent Spectrum Analyz XI RL RF Center Freq 2.4	50 Ω AC	z	SENSE:PULSE	Avg Typ	ALIGNAUTO e: Log-Pwr	02:27:15 PM Dec 25 TRACE 1 2 3	B456 Frequency
		0: Fast ↔ ain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold		00 000 00 C -43.909 d	GHz Auto Tu
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-10.0	$\langle \rangle^2$						3 2.478000000 G
-50.0				<u>hairen 1969 - Dairen 1969 - Dairen 1969</u> 			Stop Fr 2.500000000 G
Start 2.47800 GH #Res BW 1.0 MH	łz	#VBW :	3.0 MHz		Sweep 1.	Stop 2.50000 067 ms (8001	pts) 2.200000 Mi
MKR MODE TRC SCL 1 N f 2 N f 3 N f 4	× 2.480 158 75 2.483 500 00 2.500 000 00	GHz ·	42.5291 dBm 42.526 dBm 43.909 dBm	FUNCTION FU	NCTION WIDTH	FUNCTION VALU	Freq Offs
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11						Ì	
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MSG Restr	zer - Swept SA 50 Ω AC 489000000 GH2 PN0		measurem SENSE:PULSE Trig: Free Run #Atten: 30 dB		ALIGN AUTO e: Log-Pwr	GFSK_Av	> >
MSG Agilent Spectrum Analyz Agilent Freq 2.4 Center Freq 2.4 10 dB/div Ref 2	zer - Swept SA 50 Ω AC 489000000 GH2 PN0	Z 0: Fast ↔	SENSE:PULSE	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr I: 5/10	02:27:26 PM Dec 25	yerage 3,2017 3 + 5 6 SPPP Auto Tur
Restr Agilent Spectrum Analyz XI RL RF Center Freq 2.4 Ref Of	zer - Swept SA 50 Q AC 489000000 GH2 PN IFGa ffset 7.01 dB	Z 0: Fast ↔	SENSE:PULSE	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr I: 5/10	02:27:26 PMDec 25 TRACE 1 2 3 TYPE [M W DET P P F	yerage 3,2017 3 + 5 6 SPPP Auto Tur
Agilent Spectrum Analyz Agilent Spectrum Analyz Agilent Spectrum Analyz Agilent Spectrum Analyz Agilent Spectrum Analyz Center Freq 2.4 Ref Of 10 dB/div Ref 2 10.0 0.00	2er - Swept SA 50 Ω AC PNU FGa 199000000 GH2 PNU FGa 1990 1990 	Z 0: Fast ↔	SENSE:PULSE	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr I: 5/10	02:27:26 PMDec 25 TRACE 1 2 3 TYPE [M W DET P P F	> > > <</td
Agilent Spectrum Analyz MSG Agilent Spectrum Analyz MRL RF Center Freq 2.4 Ref Of 10 dB/div Ref 2 10.0 10.	zer - Swept SA 50 Q AC 489000000 GH2 PN IFGa ffset 7.01 dB	Z 0: Fast ↔	SENSE:PULSE	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr I: 5/10	02:27:26 PMDec 25 TRACE 1 2 3 TYPE [M W DET P P F	> > >,2017 Frequency 3 4 5 6 Frequency >> P P P Auto Tur Bm Center Fre 2.48900000 Gl Start Fre 3 Stop Fre
Restr Agilent Spectrum Analyz Y Ref Center Freq 2.4 Ref Of O dB/div Ref Of Log 1 10.0 1 -20.0 1 -30.0 -40.0 -70.0 Start 2.47800 GF #Res BW 1.0 MH	Zer - Swept SA 50 Q AC 489000000 GHz PNU IFGa ffset 7.01 dB 20.00 dBm 20.00 dBm 42 42 42 42 42	Z 0: Fast ↔	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr :: 5/10 Mkr3 2.5	02:27:26 PMDec 25 TRACE [1] 2 TYPE MW DET P P F 00 000 00 C -53.813 d	> > 3,2017 Frequency 3,45.6 Frequency >PPPP Auto Tur Bm Center Fr 2,48900000 G Start Fr 2,47800000 G Start Fr 3,3 Stop Fr 2,50000000 G Start Fr 2,50000000 G Stop Fr 2,50000000 G Stop Fr 2,200000 M M
Agilent Spectrum Analyz Agilent Spectrum Analyz MsG Agilent Spectrum Analyz MsG Agilent Spectrum Analyz MsG Center Freq 2.4 Ref Of Od B/div Ref 2 Log 1 10.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 30.0 1 40.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 60.0 1 70.0 1 8 1 1 <t< td=""><td>2er - Swept SA 50 Ω AC PN PN IFGa Fset 7.01 dB 20.00 dBm 20.00 dBm 21.01 42.000 dBm</td><td>Z O: Fast →→ ain:Low</td><td>SENSE:PULSE Trig: Free Run #Atten: 30 dB</td><td>Avg Typ Avg Hold</td><td>ALIGNAUTO e: Log-Pwr i: 5/10 Mkr3 2.5</td><td>02:27:26 PMDec 25 TRACE [] 2: Type M w DET P P F 00 000 00 C -53.813 d</td><td>> > 3,2017 Frequency 3,45.6 Frequency >PPPP Auto Tur Bm Center Frequency 2,48900000 GI 2,48900000 GI 3 Start Frequency 3 Start Frequency 3 Stop Frequency GHz 2,478000000 GI 3 Stop Frequency 2,500000000 GI Stop Frequency 3 CF Step 0.145 M</td></t<>	2er - Swept SA 50 Ω AC PN PN IFGa Fset 7.01 dB 20.00 dBm 20.00 dBm 21.01 42.000 dBm	Z O: Fast →→ ain:Low	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr i: 5/10 Mkr3 2.5	02:27:26 PMDec 25 TRACE [] 2: Type M w DET P P F 00 000 00 C -53.813 d	> > 3,2017 Frequency 3,45.6 Frequency >PPPP Auto Tur Bm Center Frequency 2,48900000 GI 2,48900000 GI 3 Start Frequency 3 Start Frequency 3 Stop Frequency GHz 2,478000000 GI 3 Stop Frequency 2,500000000 GI Stop Frequency 3 CF Step 0.145 M
Restr Agilent Spectrum Analyz Qill RL RF Center Freq 2.4 Iog Ref Of 10.0 1 .000 1 .000 1 .000 1 .000 .000	2er - Swept SA 50 Q AC 489000000 GHz PN IFGa ffset 7.01 dB 20.00 dBm 20.00 dBm 42 42 42 42 42 42 42 42 42 42	Z O: Fast →→ ain:Low	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr :: 5/10 Mkr3 2.5	02:27:26 PMDec 25 TRACE [1] 2 TYPE MW DET P P F 00 000 00 C -53.813 d	> > > > > > > > > > > > Start Frequency > > Start Frequency 2.48900000 Gl 2.48900000 Gl 3 Start Frequency 2.47800000 Gl 3 Stop Frequency 2.50000000 Gl 3 Stop Frequency Auto Matter Auto Freq Offs

Agilent Spectrum Analyzer - Sw LXI RL RF 50 G	vept SA ⊋ AC	SENSE:PULSE	ALIGN AUTO	02:33:40 PM Dec 25, 2017	
Center Freq 2.3570			Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P	Frequency
Ref Offset 7 10 dB/div Ref 20.00	.01 dB		Mkr3	2.390 000 GHz -43.140 dBm	Auto Tu
10.0 0.00					Center Fr 2.357000000 G
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-50.0	esteredistrictes with elementists	i i i i i i i i i i i i i i i i i i i			Stop Fr 2.404000000 G
Start 2.31000 GHz #Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 1	Stop 2.40400 GHz .067 ms (8001 pts)	CF Ste 9.400000 Mi
MKR MODE TRC SCL	× 2.401 920 GHz 2.310 000 GHz	Y Fi -4.474 dBm -44.440 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
3 N f 4 5 6	2.390 000 GHz	-43.140 dBm			Freq Offs 0 H
7 8 9 10					
11 <				✓	
MSG		ul	STATU	3	
Restrict-ban	-	measurements	the statu: _Hopping Off_π.	3	rage
Agilent Spectrum Analyzer - Sw	vept SA 2 AC 00000 GHz	SENSE:PULSE	-	4-DQPSK_Ave	Frequency
Agilent Spectrum Analyzer - Sw CM RL RF 50 S Center Freq 2.3570 Ref Offset 7	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	2.330 000 GHz	Frequency
11 MSG Restrict-ban Agilent Spectrum Analyzer - Sw X RL RF 50 S Center Freq 2.3570	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave	Frequency Auto Tur Center Fre
11 Msg Restrict-ban Agilent Spectrum Analyzer - Sv Od RL RF So S Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	2.330 000 GHz	Frequency Auto Tur Center Fre
11	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	2.330 000 GHz	Frequency
11 MSG Restrict-ban Agilent Spectrum Analyzer - Sw X RL RF 503 Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00 	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	2.330 000 GHz	Frequency Auto Tur Center Fre 2.357000000 GF Start Fre 2.310000000 GF
11 MSG Restrict-ban Agilent Spectrum Analyzer - Sv XX RL RF 500 Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00 -00 -10.0 -20.0 -30.0 -40.0 2	vept SA 2 AC PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π. Alignauto Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 GF 2.310000000 GF Stop Fre
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11 Image: Content of the sector of the s	wept SA 2 AC PN0: Fast IFGain:Low .01 dB dBm .01 dB	SENSE:PULSE Trig: Free Run #Atten: 30 dB	_Hopping Off_T.	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 GF Start Fre 2.310000000 GF Stop Fre 2.404000000 GF CF Ste 9.400000 MF Auto
11 Image: Content of the sector of the s	vept SA 2 AC DO000 GHz PN0: Fast IFGain:Low .01 dB dBm 	SENSE:PULSE	_Hopping Off_Π. ALIGNAUTO Avg Type: Log-Pwr Avg]Hold: 1/10 Mkr3	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 GF Start Fre 2.310000000 GF Stop Fre 2.404000000 GF 9.400000 GF 9.400000 MH Auto Auto Stop Fre 9.400000 MH Freq Offs
11 Image: Construct Sector of the sector	wept SA 2 AC PN0: Fast IFGain:Low .01 dB dBm .01 dB	SENSE:PULSE Trig: Free Run #Atten: 30 dB	_Hopping Off_Π. ALIGNAUTO Avg Type: Log-Pwr Avg]Hold: 1/10 Mkr3	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 GF Start Fre 2.310000000 GF Stop Fre 2.404000000 GF CF Ste 9.400000 MF

Agilent Spectrum Analyzer -																	
⊠ RL RF 5 Center Freq 2.489	PNO: Fast	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:40:41 PM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P	Frequency												
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MKR MODE TRC SCL 1 N f 2 N f 3 N f 4	× 2.480 087 25 GHz 2.483 500 00 GHz 2.500 000 00 GHz	4.494 dBm -43.463 dBm -43.011 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offs												
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