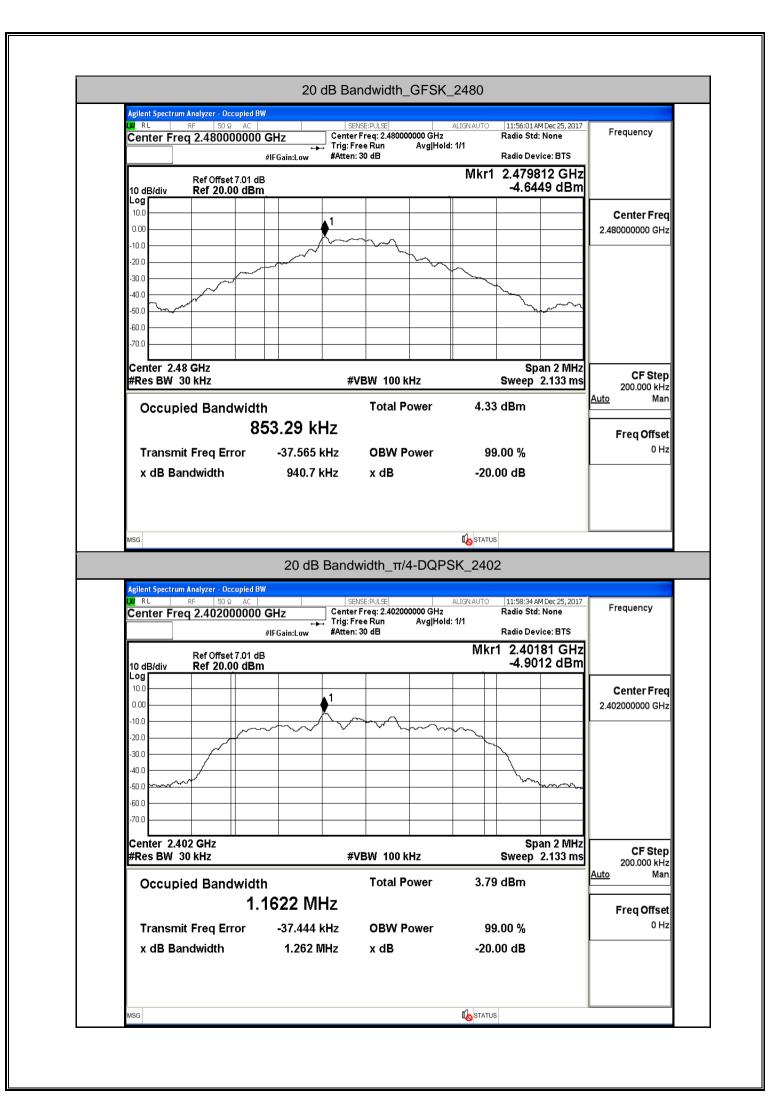
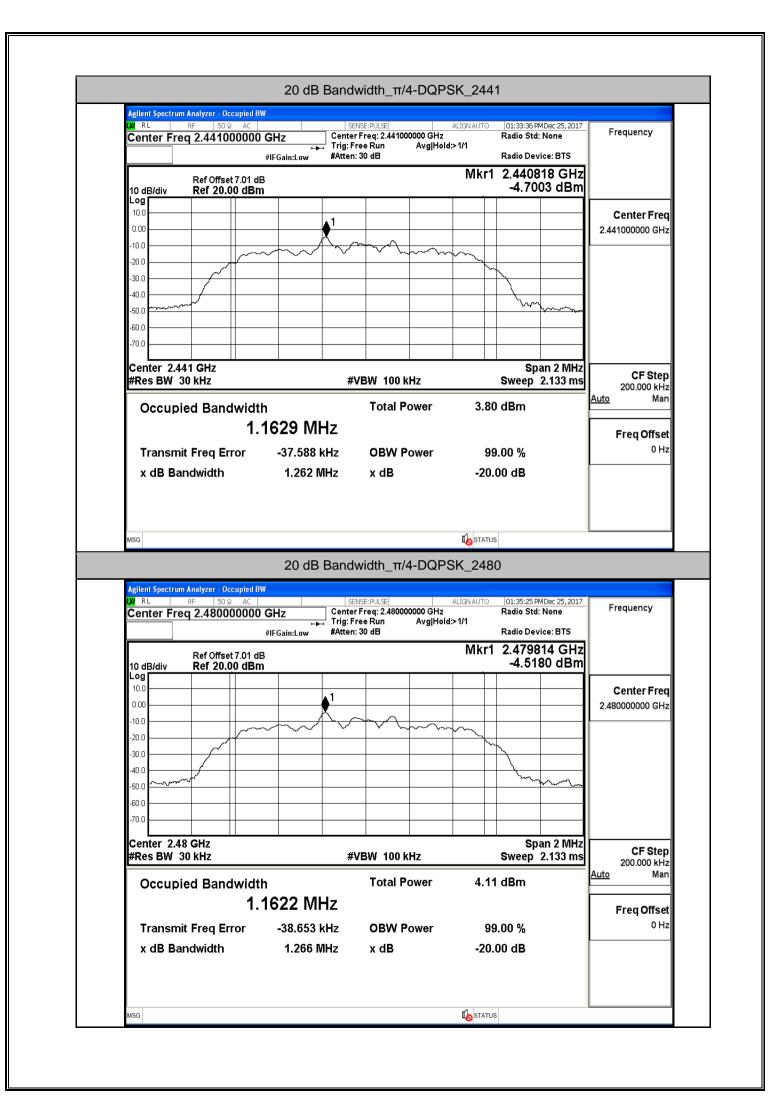
## Appendix A RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement) Product Name: BLUETOOTH IN-EAR HEADPHONES Trade Mark: ONN Test Model: 17LY80 FCC ID: 2AKI8-ONNBTINEAR

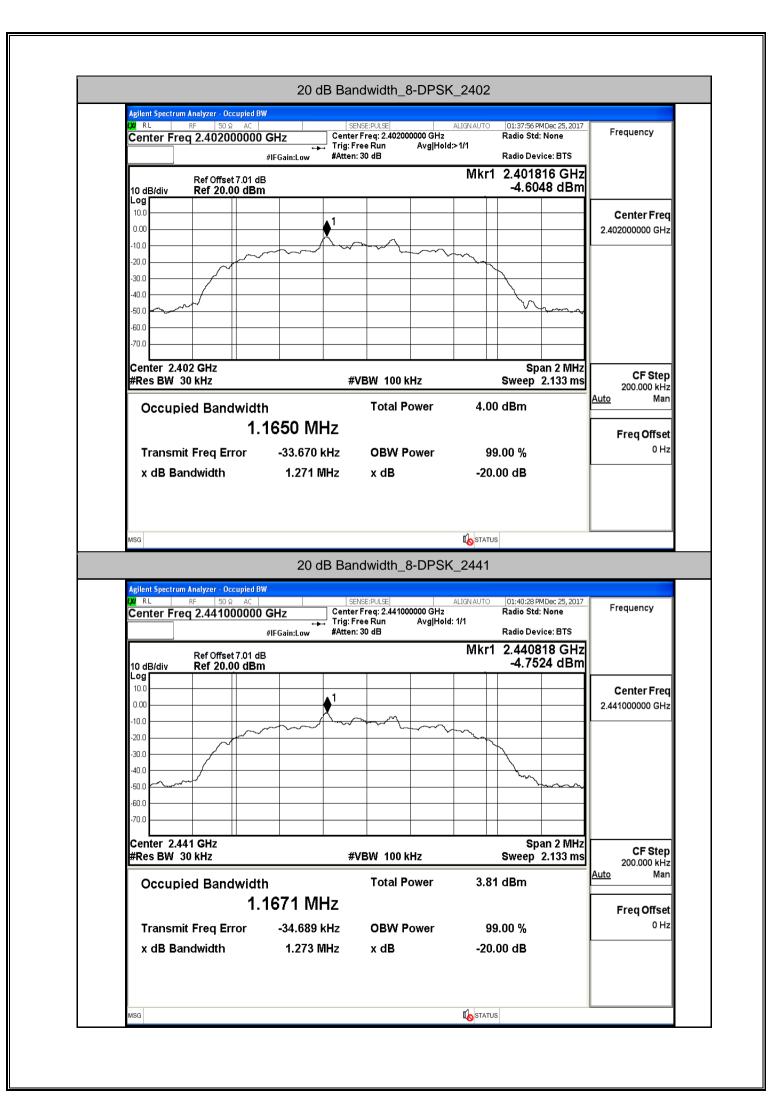
#### A.1 20 dB Bandwidth

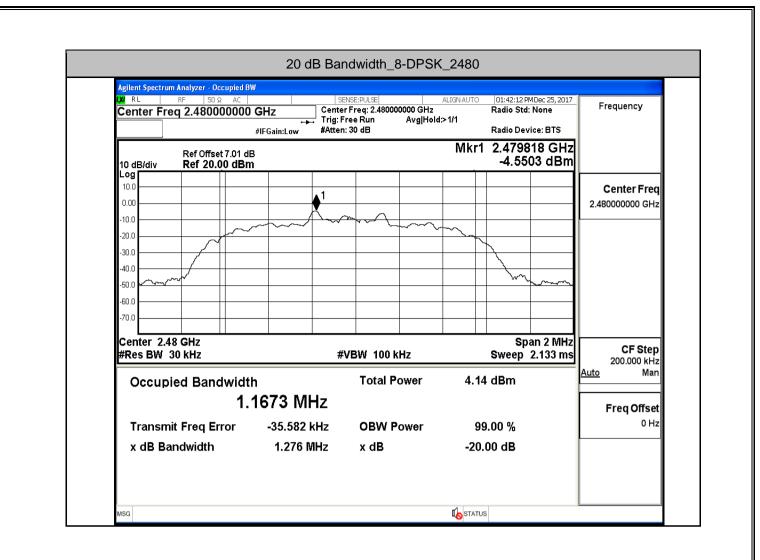
Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
	2402	0.9377		PASS
GFSK	2441	0.9329		PASS
	2480	0.9407		PASS
	2402	1.262		PASS
π/4-DQPSK	2441	1.262		PASS
	2480	1.266		PASS
	2402	1.271		PASS
8-DPSK	2441	1.273		PASS
	2480	1.276		PASS

LXI RL	<mark>m Analyzer - Οc</mark> RF 50 Ω	AC		SENSE:PULSE		ALIGN AUTO		Dec 25, 2017	Frequency
Center Fre	eq 2.40200		Tri	nter Freq: 2.4020 ig: Free Run	00000 GHz Avg Hole	d: 1/1	Radio Std:		Frequency
		#11	Gain:Low #A	tten: 30 dB		Miland	Radio Devi		
10 dB/div	Ref Offset Ref 20.0					IVIKI I		15 dBm	
Log 10.0									Center Free
0.00			<b>↓</b> 1						2.402000000 GH:
-10.0				-					
-20.0					$\sim$	-			
-30.0	~~						n l		
-50.0	v www.						~~~~	_~~~	
-60.0									
-70.0									
Center 2.4							Spa	ın 2 MHz	CF Step
#Res BW	30 kHz			#VBW 100	KHZ		Sweep 2	2.133 ms	200.000 kHz
Occup	ied Band	width		Total P	ower	4.00	) dBm		<u>Auto</u> Mar
		852	2.31 kHz						Freq Offse
Transm	nit Freq Eri	ror	-37.522 kHz	OBW F	ower	99	0.00 %		0 H2
	andwidth		937.7 kHz	x dB		-20.	00 dB		
MSG			20 dB	Bandwidth <u></u>	_GFSK	<mark>б</mark> ататия _2441	5		
Agilent Spectru	m Analyzer - Oc RF 50 Ω eq 2.4410(	AC	Hz Ce	SENSE:PULSE	00000 GHz	_2441	11:54:17 AM Radio Std:		Frequency
Agilent Spectru	RF 50 Ω	AC   00000 G	Hz Ce +⊨→ Tri	SENSE:PULSE		_2441	11:54:17 AM	None	Frequency
Agilent Spectru VI RL Center Fro	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce +≠- Tri	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Frequency
Agilent Spectru	RF 50 Ω eq 2.4410(	AC 00000 G #II :7.01 dB	Hz Ce +≠- Tri	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS	Frequency
Agilent Spectru XI RL Center Fro 10 dB/div Log	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce +≠- Tri	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru XI RL Center Fro 10 dB/div Log 10.0 0.00	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	
Agilent Spectru XI RL Center Fro 10 dB/div Log	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru XI RL Center Fro Center Fro 10 dB/div Log 10.0 .000	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru X RL Center Fro 10 dB/div Log 10.0 .00 .00 .10.0 .20.0 .30.0 .40.0	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru X RL Center Fro Conter Fro 10 dB/div Log 10.0 .0.0 .0.0 .20.0 .30.0 .50.0	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru X RL Center Fro Center Fro 0.00 0.00 -10.0 -20.0 -30.0 -40.0	RF 50 Ω eq 2.44100 Ref Offset	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17 AM Radio Std: Radio Devi <b>2.4408</b>	None ce: BTS <b>14 GHz</b>	Center Free
Agilent Spectru XI RL Center Fro Center Fro Conter	Ref Offset Ref 2.4410(	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run	00000 GHz	_2441 ALIGNAUTO d: 1/1	11:54:17AM Radio Std: Radio Devi 2.4408 -4.783	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GH2
Agilent Spectru X RL Center Fra Conter	Ref Offset Ref 2.4410(	AC 00000 G #II :7.01 dB	Hz Ce → Tr Gain:Low #A	SENSE:PULSE nter Freq: 2.4410 ig: Free Run		_2441 ALIGNAUTO d: 1/1	11:54:17AM Radio Std: Radio Devi 2.4408 -4.783	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GH2
Agilent Spectru XI RL Center Fro Center Fro Log 10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 2.4 #Res BW	Ref Offset Ref Offset Ref 20.0	7.01 dB 0 dBm	Hz Ce → Tr Gain:Low #A	SENSE:PULSE Inter Freq: 2.44100 g: Free Run tten: 30 dB	000000 GHz Avg Hold	_2441  ALIGN AUTO d: 1/1  Mkr1	11:54:17AM Radio Std: Radio Devi 2.4408: -4.783	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GH2 2.45 CF Step 200.000 kH2
Agilent Spectru XI RL Center Fro Center Fro Log 10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -60.0 -70.0 Center 2.4 #Res BW	Ref Offset Ref 2.4410(	7.01 dB 0 dBm	Hz Ce Tri Gain:Low #A	SENSE:PULSE	000000 GHz Avg Hold	_2441  ALIGN AUTO d: 1/1  Mkr1	11:54:17AM Radio Std: Radio Devi 2.4408 -4.783	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GH: 2.441000000 GH: CF Ster 200.000 kH: Auto Mar
Agilent Spectru (X) RL Center Fro Center Fro Log 10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0 -40.0 -50.0 -70.0 Center 2.4 #Res BW	Ref Offset Ref 2.4410(	AC 00000 G #II	Hz Ce Tr Tr #A	SENSE:PULSE inter Freq: 2.44100 ig: Free Run tten: 30 dB	200000 GHz Avg Hold	_2441	III:54:17AM Radio Std: Radio Devi 2.4408 -4.783 -4.783 	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset
Agilent Spectru 20 RL Center Fro 10 dB/div Log 10.0 0.00 -0.0 -0	Ref Offset Ref 2.44100	AC 00000 G #II	Hz Ce Tri FGain:Low #A	SENSE:PULSE inter Freq: 2.44100 g: Free Run tten: 30 dB	200000 GHz Avg Hold	_2441  aLIGN AUTO d: 1/1  Mkr1  ALIGN AUTO d: 1/2  ALIGN AUTO	III:54:17AM Radio Std: Radio Devi 2.4408 -4.783 -4.783 -4.783 Sweep 2 Sweep 2 3 dBm	None ce: BTS 14 GHz 4 dBm	Center Free 2.441000000 GH; 2.441000000 GH; CF Step 200.000 kH; Auto Mar Freq Offse
Agilent Spectru 20 RL Center Fro 10 dB/div Log 10.0 0.00 -0.0 -0	Ref Offset Ref 2.4410(	AC 00000 G #II	Hz Ce Tr Tr #A	SENSE:PULSE inter Freq: 2.44100 g: Free Run tten: 30 dB	200000 GHz Avg Hold	_2441  aLIGN AUTO d: 1/1  Mkr1  ALIGN AUTO d: 1/2  ALIGN AUTO	III:54:17AM Radio Std: Radio Devi 2.4408 -4.783 -4.783 	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GH: 2.441000000 GH: 2.44100000 GH: Auto Mar
Agilent Spectru X RL Center Fre 10 dB/div Log 10.0 .00 .00 .00 .00 .00 .00 .0	Ref Offset Ref 2.44100	AC 00000 G #II	Hz Ce Tri FGain:Low #A	SENSE:PULSE inter Freq: 2.44100 g: Free Run tten: 30 dB	200000 GHz Avg Hold	_2441  aLIGN AUTO d: 1/1  Mkr1  ALIGN AUTO d: 1/2  ALIGN AUTO	III:54:17AM Radio Std: Radio Devi 2.4408 -4.783 -4.783 -4.783 Sweep 2 Sweep 2 3 dBm	None ce: BTS 14 GHz 4 dBm	Center Frec 2.441000000 GHz 2.441000000 GHz CF Step 200.000 kHz Auto Mar Freq Offset
Agilent Spectru 2 RL Center Fre 10 dB/div Log 10.0 .00 .00 .00 .00 .00 .00 .0	Ref Offset Ref 2.44100	AC 00000 G #II	Hz Ce Tri FGain:Low #A	SENSE:PULSE inter Freq: 2.44100 g: Free Run tten: 30 dB	200000 GHz Avg Hold	_2441  aLIGN AUTO d: 1/1  Mkr1  ALIGN AUTO d: 1/2  ALIGN AUTO	III:54:17AM Radio Std: Radio Devi 2.4408 -4.783 -4.783 Standard Spa Sweep 2 3 dBm 0.00 % 00 dB	None ce: BTS 14 GHz 4 dBm	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	-3.561	30	PASS
GFSK	2441	-3.586	30	PASS
	2480	-3.327	30	PASS
	2402	-2.731	21	PASS
π/4-DQPSK	2441	-2.752	21	PASS
	2480	-2.521	21	PASS
	2402	-2.174	21	PASS
8-DPSK	2441	-2.292	21	PASS
	2480	-2.050	21	PASS

LXI RL	req 2.402000	AC		SENSE:PULSE	Avg Type: Lo	GNAUTO og-Pwr	11:52:19 AM [ TRACE	123456	Frequency
10 dB/div	Ref Offset 7.01 Ref 20.00 di	PNO: IFGair I dB		: Free Run en: 30 dB	Avg Hold: 10/ Mkr		1 745 00	0 GHz dBm	Auto Tur
Log	Rei 20.00 di								Center Fre
10.0									2.402000000 GH
0.00				,1		_			Start Fre
-10.0									2.399500000 GH
-20.0									Stop Fre
-30.0									2.404500000 GH
-40.0									CF Ste 500.000 kH
-50.0									<u>Auto</u> Ma
-60.0									Freq Offse
-70.0									ОН
Center 2.4 #Res BW	402000 GHz 3.0 MHz		#VBW 8.0 I	MHz		veep 1.0	Span 5.( )67 ms (8	000 MHz 001 pts)	
#Res BW						STATUS	)67 ms (8	000 MHz 001 pts)	
#Res BW MSG Agilent Spectr	3.0 MHz	ot SA AC DOOO GHZ PNO:	lucted Pea	ak Output sense:pulse : Free Run	୩ Power_GF	STATUS SK_24	067 ms (8 441 11:54:50 AMI TRACE TYPE	001 pts)	Frequency
#Res BW MSG Agilent Spectri W RL Center F 10 dB/div	<b>3.0 MHz</b> um Analyzer - Swey RF 50 Ω	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE	001 pts)	
#Res BW MSG Agilent Spectr Agilent Spectr	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre
#Res BW MSG Agilent Spectri (M RL   Center F 10 dB/div	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea Fast ↔ Trig	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun
#Res BW MSG Agilent Spectr M RL Center F 10 dB/div Log	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.44100000 GH Start Fre
#Res BW MSG Agilent Spectr X RL Center F 10 dB/div 10.0	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre
#Res BW MSG Agilent Spectr X RL Center F 10 dB/div Log 10.0 0.00	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.44100000 GH Start Fre 2.438500000 GH Stop Fre
Agilent Spectron       Agilent Spectro       Agilent Spectron       Agilent Spectro       Agilent Spectro <td>3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01</td> <td>ot SA AC DOOO GHz PNO: IFGain</td> <td>lucted Pea</td> <td>ak Output sense:pulse : Free Run</td> <td>E Power_GF</td> <td>STATUS SK_24 SN AUTO og-Pwr 10</td> <td>067 ms (8 441 11:54:50 AMI TRACE TYPE DET</td> <td>001 pts)</td> <td>Auto Tun Center Fre 2.44100000 GH Start Fre 2.438500000 GH Stop Fre 2.443500000 GH</td>	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.44100000 GH Start Fre 2.438500000 GH Stop Fre 2.443500000 GH
#Res BW           MSG           Agilent Spectron           QX         RL           Center F           10 dB/div           10.0           .000           .10.0           .20.0	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.441000000 GH Start Fre 2.438500000 GH Stop Fre 2.443500000 GH CF Stej 500.000 kH
#Res BW           MSG         Agilent Spectric Spectr	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.44100000 GH Start Fre 2.438500000 GH Stop Fre 2.443500000 GH CF Ste 500.000 kH
Agilent Spectr           MSG         Image: Context Spectr           Image: Context Spectr         Image: Cont	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.44100000 GH Start Fre 2.438500000 GH Stop Fre 2.443500000 GH CF Ste 500.000 kH
Agilent Spectrix           X RL         Center F           10 dB/div         -           Conter F         -           10.0         -           -0.00         -           -10.0         -           -20.0         -           -30.0         -           -40.0         -	3.0 MHz um Analyzer - Swer ℝF   50 Ω req 2.441000 Ref Offset 7.01	ot SA AC DOOO GHz PNO: IFGain	lucted Pea	ak Output sense:pulse : Free Run	E Power_GF	STATUS SK_24 SN AUTO og-Pwr 10	067 ms (8 441 11:54:50 AMI TRACE TYPE DET	001 pts)	Auto Tun Center Fre 2.441000000 GH 2.438500000 GH 2.438500000 GH 2.443500000 GH CF Ste 500.000 kH Auto Ma

		um Analyze										
KN R Cer		<sup>RF</sup> req 2.4	50 ຊ 80000	000 GI	Ηz	7	E:PULSE	Avg Type	ALIGN AUTO	11:56:34 AM E TRACE	123456	Frequency
					NO: Fast ↔ Gain:Low	#Atten: 3		Avg Hold:	10/10	DET	MWWWWW PPPPPP	
	B/div		set 7.01 ) <b>.00 dB</b>					М	kr1 2.47	9 811 25 -3.32	0 GHz 7 dBm	Auto Tun
Log												Center Fre
10.0												2.480000000 GH
0.00						<b>_</b> 1.						
						V	<u> </u>	+				Start Free 2.477500000 GH
-10.0												2.477500000 GH
-20.0	<u> </u>											Stop Free
20.0												2.482500000 GH
-30.0												
-40.0	<u> </u>											CF Stej 500.000 kH
-50.0												<u>Auto</u> Ma
												Freq Offse
-60.0												0 H
-70.0												
Cen	ter 2.4	480000	GHz							Span 5.0	00 MHz	
#Re	s BW	3.0 MHz	2		#VBV	V 8.0 MHz			<b>O</b>	AA7	AA4 4 1	
								•	-	067 ms (8	JU1 pts)	
MSG				_							JU1 pts)	
MSG				Condu				wer_π/4			JUT pts)	
Agiler		um Analyze	er - Swept	SA		eak Out	put Po	wer_π/4	DQPS	(_2402		
<mark>Agiler</mark> L <b>XI</b> R	L		e <mark>r - Swept</mark> 50 Ω	SA AC 000 Gł	ucted P		put Po E:PULSE	wer_π/4 <sub>Avg Type</sub>		(_2402 11:59:07 AME TRACE	ec 25, 2017 1 2 3 4 5 6	Frequency
<mark>Agiler</mark> L <b>XI</b> R	L	r <b>um Analyze</b> RF	e <mark>r - Swept</mark> 50 Ω	SA AC 000 GI P	ucted P		put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM D TRACE TYPE DET	ec 25, 2017 1 2 3 4 5 6 M WWWWW P P P P P P	
Agiler (X/ R Cer	ter F	rum Analyze RF req 2.4	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:		(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ec 25, 2017 1 2 3 4 5 6 M WWWWW P P P P P P	Auto Tun
Agiler (X/ R Cer	L	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Free
Agiler (X/ R Cer	ter F	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun
Agiler (X) R Cer 10 d Log	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Free 2.402000000 GH
Agiler (X) R Cer 10.0 10.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Fre 2.40200000 GH Start Free
Agiler (X) R Cer 10 d Log	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Free 2.402000000 GH
Agiler (X) R Cer 10.0 10.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Fre 2.40200000 GH Start Fre 2.399500000 GH
Agiler (X R Cer 10.0 0.00 -10.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Fre 2.40200000 GH Start Free
Agiler (x) R Cer 10.0 10.0 0.00	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Fre 2.40200000 GH Start Fre 2.39950000 GH Stop Fre 2.404500000 GH
Agiler (X R Cer 10.0 0.00 -10.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Fre 2.40200000 GH Start Fre 2.399500000 GH Stop Fre 2.404500000 GH
Agiler (X R Cer 10.0 10.0 -10.0 -20.0 -30.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun Center Free 2.40200000 GH Start Free 2.399500000 GH Stop Free
Agiler (X) R Cer 10.0 10.0 -10.0 -20.0 -30.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun           Center Free           2.402000000 GH           Start Free           2.399500000 GH           Stop Free           2.404500000 GH           CF Step           500.000 kH           Auto
Agiler (X R Cer 10.0 10.0 -10.0 -20.0 -30.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tum           Center Free           2.402000000 GH           Start Free           2.399500000 GH           Stop Free           2.404500000 GH           CF Step           500.000 kH           Auto           Main           Freq Offset
Agiler (X) R Cer 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tun           Center Free           2.402000000 GH           Start Free           2.399500000 GH           Stop Free           2.404500000 GH           CF Step           500.000 kH           Auto
Agiler (X) R Cer 10.0 10.0 -10.0 -20.0 -30.0 -40.0	B/div	rum Analyze RF req 2.4 Ref Offs	er - Swept 50 Ω 02000 set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	Wer_π/4 Avg Type Avg Hold:	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50	ес 25, 2017 1 2 3 4 5 6 Мумилин Р Р Р Р Р Р О СН7	Auto Tum           Center Free           2.402000000 GH           Start Free           2.399500000 GH           Stop Free           2.404500000 GH           CF Step           500.000 kH           Auto           Main           Freq Offset
Agiler (X) R Cer 10.0 10.0 -10.0 -20.0 -30.0 -30.0 -50.0 -50.0 -70.0		rum Analyze RF req 2.4 Ref Offs	set 7.01	SA AC 000 GH P IF	ucted P Iz N0: Fast ↔	eak Out	put Po EPULSE e Run	wer_m/4	LIGN AUTO - DQPSH ALIGN AUTO E: Log-Pwr 10/10	(_2402 11:59:07 AM L TRACE TYPE DET 1 732 50 -2.73 -2.73 -2.73 -2.73 -2.73	ec 25, 2017 12 3 4 5 6 MWWWWW P P P P P P 0 GHz 1 dBm 	Auto Tum           Center Free           2.402000000 GH           Start Free           2.399500000 GH           Stop Free           2.404500000 GH           CF Step           500.000 kH           Auto           Main           Freq Offse           0 H

LXI RL		RF	zer - Swe 50 Ω	AC		SENS	E:PULSE		ALIGN AUTO e: Log-Pwr		Dec 25, 2017	Frequency
Cent	erF	req Z.	44100	0000 G	<b>PHZ</b> PNO: Fast ↔ IFGain:Low	Trig: Fre #Atten: 3		Avg Hold:		TYP		
10 dB	/div		ffset 7.0 2 <b>0.00 d</b>	1 dB				М	lkr1 2.44	0 731 2 -2.7	50 GHz 52 dBm	Auto Tun
												Center Fre
10.0 -												2.441000000 GH
0.00 -						<b>↓</b> <sup>1</sup>						Start Free
-10.0 =												2.438500000 GH
-20.0												Oton Fra
												<b>Stop Free</b> 2.443500000 GH
-30.0 -												05.04
-40.0 -												CF Step 500.000 kH Auto Mar
-50.0 -												<u>Auto</u> Mai
-60.0 -		_										Freq Offse
-70.0 -												0Н
		41000								Span 5.	000 MHz	
4 m		O O B41										
	BW	3.0 MH	lz		#VBV	V 8.0 MHz			Sweep 1.	067 ms (	3001 pts)	
#Res	BW	3.0 1916	łz	Cond						067 ms (	3001 pts)	
MSG Agilent IXI R L	Spectr	<mark>um Analy</mark> RF	<mark>zer - Swe</mark> 50 Ω	pt SA	lucted P	eak Out	put Po	wer_π/4 Avg Type	-DQPSK ALIGNAUTO e: Log-Pwr	067 ms (; (_2480 01:35:58 PM TRAC	Dec 25, 2017	Frequency
MSG Agilent IXI R L	Spectr	<mark>um Analy</mark> RF	<mark>zer - Swe</mark> 50 Ω	pt SA AC   0000 C	lucted P	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( (_2480 01:35:58 PM TRAC TYP DE	Dec 25, 2017 1 2 3 4 5 6 E M WWWWW T P P P P P	Frequency
MSG Agilent IXI R L	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	-DQPSK ALIGNAUTO e: Log-Pwr	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017 1 2 3 4 5 6 E M WWWWW T P P P P P	Frequency
Agilent (X) RL Cent 10 dB/ L <sup>og</sup>	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Freq
Agilent XI RL Cent	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency
Agilent (X) RL Cent 10 dB/ L <sup>og</sup>	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Freq
Agilent XI RL Cent	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Auto Tune
Agilent (X RL Cent 10.0 - 10.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Free 2.480000000 GH Start Free 2.477500000 GH
Agilent X RL Cent 10.0 - .10.0 - .20.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Auto Tune Center Free 2.48000000 GH
Agilent XI RL Cent 10.0 - 0.00 - -10.0 =	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune 2.48000000 GH Start Free 2.477500000 GH Stop Free 2.482500000 GH
Agilent X RL Cent 10.0 - .10.0 - .20.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency           Auto Tune           Center Freq           2.48000000 GH           Start Freq           2.477500000 GH           Stop Freq           2.482500000 GH           CF Step           500.000 kH
Agilent Agilent (X RL Cent 10.0 - .10.0 - .20.0 - .30.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Free 2.48000000 GH Start Free 2.477500000 GH Stop Free 2.482500000 GH CF Step
Agilent Agilent Agilent Cent 10.0 - 10.0 - -10.0 = -20.0 - -30.0 - -40.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Free 2.480000000 GH Start Free 2.477500000 GH Stop Free 2.482500000 GH CF Step 500.000 kH Auto Mai
Agilent Agilent Agilent Cent 10 dB, Con 10.0 = -20.0 = -20.0 = -30.0 = -30.0 = -50.0 = -60.0 =	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency           Auto Tune           Center Frequency           2.480000000 GH           Start Frequency           2.477500000 GH           Stop Frequency           2.482500000 GH           CF Step           500.000 kH           Auto
Agilent Agilent Cent 10 dB, Log 10.0 - -0.0 - -20.0 - -30.0 - -30.0 - -30.0 - -50.0 -	Spectr	um Analy RF req 2.4 Ref Ot	<mark>zer - Swe</mark> 50 Ω 48000	pt SA AC   0000 C	lucted P Jucted P BHz PN0: Fast →	eak Out	put Po E:PULSE e Run	wer_π/4 Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms ( 2480 01:35:58 PM TRAC TYP DE 9 796 2	Dec 25, 2017	Frequency Auto Tune Center Free 2.480000000 GH Start Free 2.477500000 GH Stop Free 2.482500000 GH CF Step 500.000 kH Auto Mai
Agilent Agilent Cent 10 dB Con 10.0 = .10.0 = .10.0 = .20.0 = .30.0 = .30.0 = .40.0 = .50.0 = .60.0 = .60.0 = .70.0 = .70.	Spectr	um Analy RF req 2.4 Ref Ot	2er - Swe 50 Ω 48000 ffset 7.0 20.00 d	pt SA AC   0000 C	Jucted P SHz PN0: Fast → IFGain:Low	eak Out	put Po	wer_m/4	ALIGNAUTO 2: Log-Pwr 2: 10/10	067 ms (: (_2480 01:35:58 РМ ТКАС 9 796 2 -2.52 	Dec 25, 2017 1 2 3 4 5 6 P P P P P P 50 GHz 21 dBm	Frequency Auto Tune Center Free 2.480000000 GH Start Free 2.477500000 GH Stop Free 2.482500000 GH CF Step 500.000 kH Auto Mar Freq Offse 0 H

gilent Spectrun	<mark>n Analyzer - Swa</mark> RF 50 Ω			OTNO	E:PULSE		ALIGN AUTO	01-00-00 PM	D 05 0017	Ir
	eq 2.40200	0000 GH	<b>lz</b> NO: Fast ↔ Gain:Low	]	Run		: Log-Pwr	01:38:30 PM TRACE TYPE DET	123456 MWWWW PPPPPP	Frequency
l0 dB/div	Ref Offset 7.0 Ref 20.00 (	01 dB	Sam.Luw	#ritten: or	, ub	М	kr1 2.40	2 012 50		Auto Tun
- <b>og</b> 10.0										Center Fre 2.402000000 GH
0.00					1					
10.0		~   				******				Start Free 2.399500000 GH
20.0										Stop Free 2.404500000 GH
-30.0										
50.0										<b>CF Ste</b> 500.000 kH <u>Auto</u> Ma
-60.0										Freq Offse
-70.0										
Center 2.40 #Res BW 3				( 8.0 MHz			Sweep 1.	067 ms (8	000 MHz :001 pts)	
#Res BW 3 ISG Igilent Spectrum	.0 MHz n Analyzer - Swe	ept SA AC	ducted	Peak O	utput P	Power_8	COPSK_ ALIGN AUTO	067 ms (8 2441 01:41:01 PM TRACE	Dec 25, 2017	
#Res BW 3 ISG Iglient Spectrum R RL Center Fre	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted	Peak O	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	COPSK_ ALIGN AUTO	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune
#Res BW 3 ISG ISG ISG ISG ISG ISG ISG ISG	.0 MHz n Analyzer - Swa RF 50 Ջ eq 2.44100	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	Dec 25,2017 1 2 3 4 5 6 MWWWWW P P P P P P	Frequency Auto Tune Center Free
#Res BW 3 ISG ISG ISG ISG ISG ISG ISG ISG	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune Center Free
#Res BW 3 ISG ISG ISG ISG ISG ISG ISG ISG	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune
#Res BW 3       Isg       Isg <td>.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0</td> <td>ept SA AC 00000 GH IF4 IF4</td> <td>ducted    </td> <td>Peak O SENSE Trig: Free #Atten: 30</td> <td>utput F ::PULSE] • Run</td> <td>POWEr_8 Avg Type Avg Hold:</td> <td>LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10</td> <td>067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3</td> <td>001 pts)</td> <td>Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.43850000 GH</td>	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.43850000 GH
#Res BW 3       Isg       Isg <td>.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0</td> <td>ept SA AC 00000 GH IF4 IF4</td> <td>ducted    </td> <td>Peak O SENSE Trig: Free #Atten: 30</td> <td>utput F ::PULSE] • Run</td> <td>POWEr_8 Avg Type Avg Hold:</td> <td>LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10</td> <td>067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3</td> <td>001 pts)</td> <td>Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH</td>	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH
#Res BW 3           Isg           Isg <td>.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0</td> <td>ept SA AC 00000 GH IF4 IF4</td> <td>ducted    </td> <td>Peak O SENSE Trig: Free #Atten: 30</td> <td>utput F ::PULSE] • Run</td> <td>POWEr_8 Avg Type Avg Hold:</td> <td>LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10</td> <td>067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3</td> <td>001 pts)</td> <td>Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.43850000 GH</td>	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune Center Free 2.44100000 GH Start Free 2.43850000 GH
#Res BW 3           Isg           Isg <td>.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0</td> <td>ept SA AC 00000 GH IF4 IF4</td> <td>ducted    </td> <td>Peak O SENSE Trig: Free #Atten: 30</td> <td>utput F ::PULSE] • Run</td> <td>POWEr_8 Avg Type Avg Hold:</td> <td>LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10</td> <td>067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3</td> <td>001 pts)</td> <td>Frequency           Auto Tune           Center Frequency           2.441000000 GH           Start Frequency           2.438500000 GH           Stop Frequency           2.443500000 GH           CF Step           500.000 kH           Auto</td>	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH IF4 IF4	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency           Auto Tune           Center Frequency           2.441000000 GH           Start Frequency           2.438500000 GH           Stop Frequency           2.443500000 GH           CF Step           500.000 kH           Auto
#Res BW 3           Isg           Isg <td>.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0</td> <td>ept SA AC 00000 GH P IF0 01 dB</td> <td>ducted    </td> <td>Peak O SENSE Trig: Free #Atten: 30</td> <td>utput F ::PULSE] • Run</td> <td>POWEr_8 Avg Type Avg Hold:</td> <td>LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10</td> <td>067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3</td> <td>001 pts)</td> <td>Frequency Auto Tune Center Free 2.441000000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH CF Step 500.000 kH</td>	.0 MHz m Analyzer - Swa RF 50 Ω 20 2.44100 Ref Offset 7.0	ept SA AC 00000 GH P IF0 01 dB	ducted   	Peak O SENSE Trig: Free #Atten: 30	utput F ::PULSE] • Run	POWEr_8 Avg Type Avg Hold:	LIGN AUTO 21 LIGN AUTO 21 LIGN PWF 21 J0/10	067 ms (8 2441 01:41:01 PM TRACE TYPE DET 0 839 3	001 pts)	Frequency Auto Tune Center Free 2.441000000 GH Start Free 2.438500000 GH Stop Free 2.443500000 GH CF Step 500.000 kH

Center I	RF 50Ω AC Freq 2.480000000 (			ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	01:42:44 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P	Frequency
10 dB/div	Ref Offset 7.01 dB Ref 20.00 dBm	IFGain:Low #Atten.	50 45	Mkr1 2.47	79 791 250 GHz -2.050 dBm	Auto Tui
10.0						<b>Center Fr</b> 2.480000000 G
0.00		<b>1</b>	······			Start Fre
-10.0						2.477500000 G
-20.0						<b>Stop Fr</b> 2.482500000 G
-40.0						CF Ste 500.000 kl
-50.0						Auto Mi
-60.0						Freq Offs 01
-70.0						

# A.3 Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
	2402	0.977	0.9377	PASS
GFSK	2441	0.956	0.9329	PASS
	2480	0.788	0.63	PASS
	2402	1.284	0.84	PASS
π/4-DQPSK	2441	1.294	0.84	PASS
	2480	1.022	0.84	PASS
	2402	1.002	0.85	PASS
8-DPSK	2441	1.202	0.85	PASS
	2480	1.262	0.85	PASS

Center Fred	RF 50 Ω 2.40250	0000 GH	IO: Wide +	SENSE	Run	Avg Typ Avg Hold	ALIGNAUTO e: Log-Pwr l: 10/10	TRA T	PM Dec 25, 2017 ACE 1 2 3 4 5 6 YPE MWWWWW DET P P P P P P	Frequency
	ef Offset 7.0 ef 20.00 d	1 dB	Gain:Low	#Atten: 30	dB		ΔN	1kr1 970	6.50 kHz ).458 dB	Auto Tu
10.0							<u></u> 1∆2			<b>Center Fr</b> 2.402500000 G
-10.0	-may arm	~% <b>2</b> ~~~	W WWWW	munu		mm		Mr.	MA. 00	
-30.0				······································	rų ·				Mar Jon	Start Fre 2.401500000 GF
-50.0 -60.0 -70.0										<b>Stop Fr</b> 2.403500000 G
Start 2.40150 #Res BW 10			#VBW	/ 300 kHz			Sweep 1	Stop 2.40 1.067 ms	3500 GHz (8001 pts)	<b>CF Ste</b> 200.000 ki
	f (Δ)	× 976.5 2.401 963 25	0 kHz (Δ)	Y -0.458 c -3.798 dB	FUNC	CTION FU	INCTION WIDTH	FUNCT	ION VALUE	<u>Auto</u> Ma
3 4 5										Freq Offs 0 F
6 7										
8 9 10										
11				Ш			<b>1</b>		>	
MSG		Car	rrier Fre	aneuch	Separa	ation (				
MSG	Analyzer - Swe		rrier Fre	equency	Separa	ation_G	-			
KSG Agilent Spectrum J	RF 50 Ω	pt SA AC 0000 GH	z	SENSE	PULSE	#Avg Typ	GFSK_2	01:47:52	PM Dec 25, 2017 ACE 1 2 3 4 5 6	Frequency
Agilent Spectrum /	RF 50 Ω	pt SA AC 0000 GH PN		SENSE	PULSE Run		GFSK_2 ALIGN AUTO De: RMS I: 10/10	2 <b>441</b> 01:47:52   TRJ T	PM Dec 25, 2017 ACE 1 2 3 4 5 6 YPE M WWWWWW DET P P P P P P P	Frequency Auto Tur
Agilent Spectrum / XI RL Center Freq	RF 50 Ω	pt SA AC 0000 GH PN IFG 1 dB	Z IO: Wide ↔	SENSE	PULSE Run	#Avg Typ	GFSK_2 ALIGN AUTO De: RMS I: 10/10	2441 01:47:521 πR/ Τ ΔMkr1	PM Dec 25, 2017 ACE 1 2 3 4 5 6 YPE M WWWWWW	
Agilent Spectrum / MSG RL Center Freq 10 dB/div R Log	RF 50 Ω 1 <b>2.44150</b> ef Offset 7.0	pt SA AC 0000 GH PN IFG 1 dB	Z IO: Wide ↔	SENSE	PULSE Run	#Avg Typ	ALIGN AUTO De: RMS I: 10/10	2441 01:47:521 πR/ Τ ΔMkr1	PMDec 25, 2017 ACE 12 3 4 5 6 MYPE M VWWWWW DET P P P P P 956 kHz	Auto Tur Center Fre
Agilent Spectrum / MSG XI RL Center Freq	RF 50 Ω 1 <b>2.44150</b> ef Offset 7.0	pt SA AC 0000 GH PN IFG 1 dB	Z IO: Wide ↔ Sain:Low	SENSE	PULSE	#Avg Typ	CFSK_2 ALIGN AUTO De: RMS 10/10	2441 01:47:521 TR T ΔMkr1 -C	PMDec 25, 2017 ACE 11 2 3 4 5 6 PPE IM YMWWW Det IP P P P P P 956 kHz 0.464 dB	Auto Tur
Agilent Spectrum / X/ RL Center Freq Log 10.0 0.00	RF 50 Ω 1 2.44150 ef Offset 7.0 ef 20.00 d	AC AC PN IFG 1 dB BM	IZ IO: Wide → Sain:Low	SENSE	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS 10/10	2441 01:47:521 πR/ Τ ΔMkr1	PMDec 25, 2017 ACE 11 2 3 4 5 6 PPE IM YMWWW Det IP P P P P P 956 kHz 0.464 dB	Auto Tur Center Fre
Agilent Spectrum / X RL Center Freq 10 dB/div R 10 dB/div R 10.0 .0.0 .20.0	RF 50 Ω 1 2.44150 ef Offset 7.0 ef 20.00 d	AC AC PN IFG 1 dB BM	IZ IO: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS 10/10	2441 01:47:521 TR T ΔMkr1 -C	PMDec 25, 2017 ACE [1 2 3 4 5 6 PPE M WWWW DET  P P P P P 956 kHz 0.464 dB	Auto Tur Center Fre 2.441500000 GF Start Fre 2.440500000 GF
Agilent Spectrum / X/ RL Center Freq 10 dB/div R Log 10.0 -20.0 -30.0 -40.0 -50.0 -60.0	RF 50 Ω 1 2.44150 ef Offset 7.0 ef 20.00 d	AC AC PN IFG 1 dB BM	IZ IO: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS 10/10	2441 01:47:521 TR T ΔMkr1 -C	PMDec 25, 2017 ACE [1 2 3 4 5 6 PPE M WWWW DET  P P P P P 956 kHz 0.464 dB	Auto Tur Center Fre 2.441500000 Gi Start Fre
Agilent Spectrum / XX RL Center Freq 10 dB/div R 10 dB/div R 10 0 -10.0 -20.0 -30.0 -50.0 -50.0 -70.0	ef Offset 7.0 ef 2.44150 ef 20.00 d	AC AC PN IFG 1 dB BM	IZ IO: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	ALIGNAUTO De: RMS 1Δ2	01:47:521 TRA T T T T T T T T T T T T T	PMDec 25, 2017 VCE [1 2 3 4 5 6 VPE [M VWWWW PP P P P P P 956 kHz 0.464 dB 0.464 dB	Auto Tur Center Fre 2.441500000 GF 2.440500000 GF 2.440500000 GF 2.442500000 GF
Agilent Spectrum / X/ RL Center Freq 10 dB/div R Log 10.0 -20.0 -30.0 -40.0 -50.0 -60.0	ef Offset 7.0 ef 2.44150 ef 20.00 d	AC AC PN IFG 1 dB BM	Z O: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	ALIGNAUTO De: RMS 1 10/10	2441 01:47:52   TR TR T T T T T T T T T T T T T	PMDec 25, 2017 VCE [1 2 3 4 5 6 PP P P P P 956 kHz 0.464 dB 0.464 dB 0	Auto Tur Center Fre 2.441500000 GF 2.440500000 GF 2.440500000 GF 2.442500000 GF 2.442500000 GF CF Ste 200.000 kf
Agilent Spectrum /           XX         RL           Center Freq           10 dB/div         R           10.0	RF         50 Ω           2.44150           ef Offset 7.0           ef 20.00 d	pt SA AC   PN IFG 1 dB Bm 	IZ 0: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	ALIGNAUTO De: RMS 1 10/10	2441	PMDec 25, 2017 VCE [1 2 3 4 5 6 PP P P P P 956 kHz 0.464 dB 0.464 dB 0	Auto Tur Center Fre 2.441500000 GF 2.440500000 GF 2.440500000 GF 2.442500000 GF 2.442500000 GF CF Ste 200.000 kt
Agilent Spectrum / MSG Agilent Spectrum / Center Freq 10.0 0.00 -10.0 -20.0 -20.0 -40.0 -30.0 -30.0 -30.0 -40.0 -50.0 -50.0 -70.0 Start 2.4405/ #Res BW 10 MKR MODE TRC S 2 F 3 4 5 5	RF         50 Ω           2.44150           ef Offset 7.0           ef 20.00 d	pt SA AC   0000 GH PN IFG 1 dB IBM 	IZ 0: Wide → Sain:Low	SENSE Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS : 10/10 1Δ2 1Δ2 Sweep 1	2441	PMDec 25, 2017 ACE [1 2 3 4 5 6 P P P P P P 956 kHz 0.464 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
Agilent Spectrum /         MSG         Agilent Spectrum /         Center Freq         Conter Freq         10 dB/div         R         10 dB/div         R         10 dB/div         R         10.0         -20.0         -40.0         -50.0         -60.0         -70.0         Start 2.44050         #Res BW 10         MKR MODE TRC S         1 A2         3 4	RF         50 Ω           2.44150           ef Offset 7.0           ef 20.00 d	pt SA AC   PN IFG 1 dB Bm 	IZ 0: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS : 10/10 1Δ2 1Δ2 Sweep 1	2441	PMDec 25, 2017 ACE [1 2 3 4 5 6 P P P P P P 956 kHz 0.464 dB	Auto Tur Center Fre 2.441500000 Gi Start Fre 2.440500000 Gi Stop Fre 2.442500000 Gi CF Ste 200.000 ki Auto Mi
Agilent Spectrum /         MSG         Agilent Spectrum /         Center Freq         Conter Freq         10.0         .00         .10.0         .20.0         .40.0         .30.0         .40.0         .50.0         .60.0         .70.0         Start 2.44050         #Res BW 100         MKR MODE TRC 5         1       A2         3	RF         50 Ω           2.44150           ef Offset 7.0           ef 20.00 d	pt SA AC   PN IFG 1 dB Bm 	IZ 0: Wide → Sain:Low	SENSE → Trig: Free #Atten: 30	PULSE Run dB	#Avg Typ Avg Hold	CFSK_2 ALIGN AUTO De: RMS : 10/10 1Δ2 1Δ2 Sweep 1	2441	PMDec 25, 2017 ACE [1 2 3 4 5 6 P P P P P P 956 kHz 0.464 dB	Auto Tur Center Fre 2.441500000 Gi Start Fre 2.440500000 Gi Stop Fre 2.442500000 Gi CF Ste 200.000 ki Auto Mi

	01:48:10 PM Dec 25, 2017	ALIGN AUTO	SENSE:PULSE		AC	n Analyzer - Swe RF 50 Ω	gilent Spectr // RL
Frequency	TRACE 1 2 3 4 5 6	Avg Type: RMS vg Hold: 10/10	Trig: Free Run		0000 GH	q 2.47950	
Auto Tur	TYPE MWWWWW DET PPPPP		#Atten: 30 dB	NO: Wide ↔ Gain:Low			
Auto Tui	∆Mkr1 788 kHz 0.311 dB	1				Ref Offset 7.0	
	0.011 0.0				1BM	Ref 20.00 (	IO dB/div -og
Center Fre		<b>▲</b> 1∆2					10.0
2.479500000 GH	hm	Munim		w	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	.10.0
	1 marsh way was a			<u>کہ</u> ا			20.0
Start Free 2.478500000 GH	2						-30.0
							40.0
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CF Ste	top 2.480500 GHz		AA 1.11-				Start 2.47
200.000 kH <u>Auto</u> Mai	000 ms (1001 pts)	•		#VBW			#Res BW
	FUNCTION VALUE	N FUNCTION WIDTH	Y FU 0.311 dB	38 kHz (Δ)	× 78	f (Δ)	
Freq Offse			4.165 dBm	6 GHz	2.479 016		2 F 3
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							6
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		<b>K</b> STATUS					
	_2402	to status _π/4-DQPSK	ncy Separat	er Freque	Carrie		11
		_π/4-DQPSK		er Freque	ept SA	n Analyzer - Swe	11 sg sg gilent Spectr
Frequency	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6	_π/4-DQPSK ALIGNAUTO Avg Type: RMS	SENSE:PULSE		ept SA AC	n Analyzer - Swe RF 50 Ω 2 <b>9 2.40250</b>	SG gilent Spectr ( RL
Frequency	01:51:39 PM Dec 25, 2017	_π/4-DQPSK			ept SA AC 100000 GH PN	RF 50 Ω	SG gilent Spectr ( RL
	01:51:39 PM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE M <del>WWWWW</del> DET P P P P P P	_π/4-DQPSK AligNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	<b>1z</b> NO: Wide ↔►→	ept SA AC 100000 GH PN IFG	RF 50 Ω 9 <b>q 2.40250</b>	SG gilent Spectr ( RL
	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW	_π/4-DQPSK AligNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	<b>1z</b> NO: Wide ↔►→	ept SA AC 100000 GH PN IFG 01 dB	RF 50 Ω	gilent Spectr gilent Spectr RL Center Fr 10 dB/div
Auto Tun	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P kr1 1.284 MHz -0.650 dB	_π/4-DQPSK AligNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	<b>1z</b> NO: Wide ↔►→	ept SA AC 100000 GH PN IFG 01 dB	RF 50 Ω eq 2.40250 Ref Offset 7.0	gilent Spectr R RL Center Fr
Auto Tuno Center Free	01:51:39 PMDec 25, 2017 TRACE [12:3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2	_π/4-DQPSK Aug Type: RMS vg[Hold: 10/10	SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB 1Bm	Ref Offset 7.0 Ref 20.00 c	11 sg sg gilent Spectr a RL Center Fr 10 dB/div -99
Auto Tun Center Free	01:51:39 PMDec 25, 2017 TRACE [12:3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2	_π/4-DQPSK AligNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB dBm	Ref Offset 7.0 Ref 20.00 c	11         sg           sg         gilent Spectri           R L         C           Center Fr         C           10.0         0.00           10.0         0.00
Auto Tun Center Fre 2.402500000 GH	01:51:39 PMDec 25, 2017 TRACE [12:3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2	_π/4-DQPSK Aug Type: RMS vg[Hold: 10/10	SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB 1Bm	Ref Offset 7.0 Ref 20.00 c	11
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Auto Tun Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free	01:51:39 PMDec 25, 2017 TRACE [12:3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2	_π/4-DQPSK	SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB 1Bm	Ref Offset 7.0 Ref 20.00 c	11
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Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW Det P P P P P P kr1 1.284 MHz -0.650 dB 1Δ2		SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB 1Bm	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 0	11
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH	01:51:39 PMDec 25, 2017 TRACE [12:3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2	_π/4-DQPSK ALIGNAUTO Avg Type: RMS vg Hold: 10/10 ΔIV	SENSE:PULSE	Hz VO: Wide ↔ Gain:Low	ept SA AC 00000 GH PN IFG 01 dB 1Bm	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 (	11
Auto Tun Center Fre 2.402500000 GH Start Fre 2.401500000 GH Stop Fre 2.403500000 GH CF Stej 200.000 kH	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWH MWHAT TYPE MWHAT MHZ -0.650 dB 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2	_π/4-DQPSK	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Hz No: Wide →→ Gain:Low	AC         PN           AC         PN           IFG         PN           IFG         PN	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 0 Control 10 Control 10 Co	11         sG           sG         RL           2         cnter Fr           10         dB/div           09         10.0           0.00
Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH 200.000 kH Auto Ma	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2	_π/4-DQPSK	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Hz N0: Wide →→→ Gain:Low	AC         PN           AC         PN           IFG         PN           IFG         PN	Ref Offset 7.0 Ref Offset 7.0 Ref 20.00 0	11       sg         sg       sg         sg       sg         2       sg         10       dB/div         -29
Auto Tun Center Fre 2.402500000 GH 2.401500000 GH 2.401500000 GH 2.403500000 GH CF Ste 200.000 kH Auto Ma	01:51:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.284 MHz -0.650 dB 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2 1Δ2	_π/4-DQPSK	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Hz N0: Wide →→→ Gain:Low	Ept SA AC   PN PN IFG AC PN PN PN PN PN PN PN PN PN PN	RF 50 Ω q 2.40250 Ref Offset 7.0 Ref 20.00 0 2.2 500 GHz 500 GHz 500 kHz 500 kHz	11
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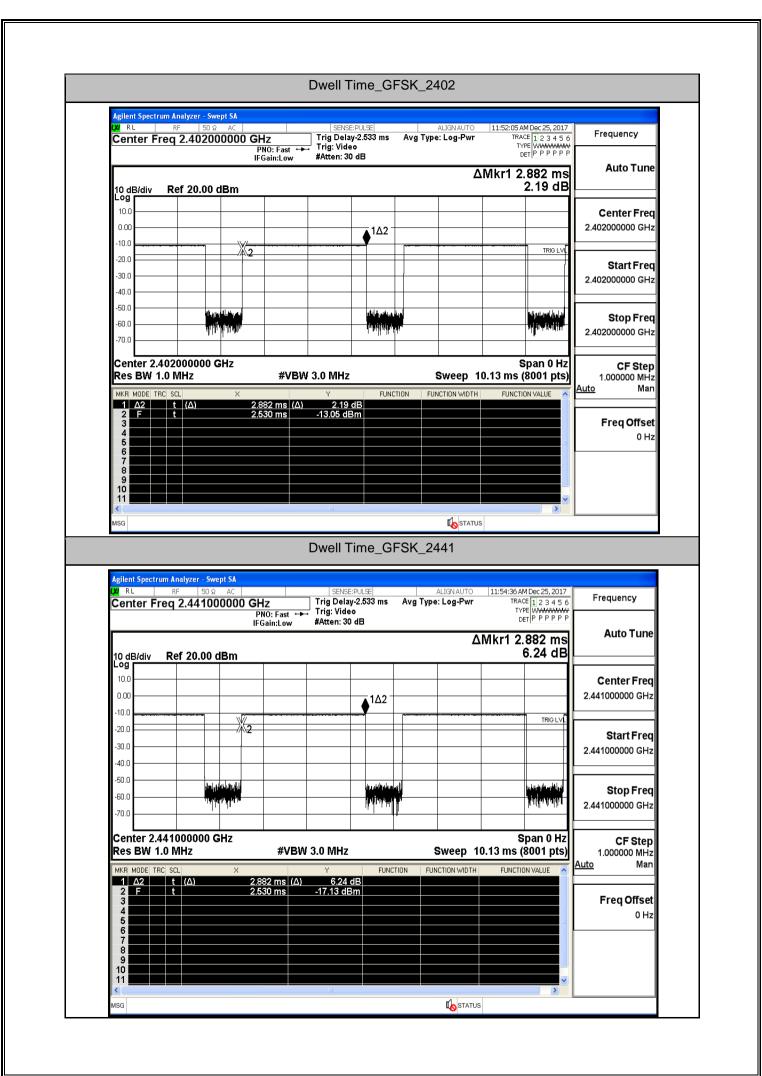
LXI RL	n Analyzer - Swept SA RF 50 Q AC eq 2.441500000 GH	SENSE:P	JLSE #Avg Typ		3:16 PM Dec 25, 2017 TRACE 1 2 3 4 5 6	Frequency
	PN	0: Wide +++ Trig: Free R ain:Low #Atten: 30 d			түре Мининин Deт Р Р Р Р Р Р 1.294 MHz	Auto Tu
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0.00	mp 2 prover			1D		Center Fre 2.441500000 GH
-20.0		Hand and a set of the product				<b>Start Fre</b> 2.440500000 GH
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MKR MODE TRC	SCL X	Y	FUNCTION FUN	· ·		<u>Auto</u> Ma
2 F 3 4 5 6	f (Δ) 1.294 f 2.440 822	4 MHz (∆) -0.080 dE 2 GHz -3.926 dBm				Freq Offs 0 ⊦
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MSG	Carrie	r Frequency Sep	paration_ $\pi/4$ -	DQPSK_24	80	
Agilent Spectrum (XI) RL	n Analyzer - Swept SA RF 50 Q AC PR 2.479500000 GH PN	SENSE:PI	JLSE     #Avg Typ un Avg Hold:	DQPSK_24	80 3:39 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE [M WWWWW DET  P P P P P P	Frequency
Agilent Spectrum (X) RL Center Fre 10 dB/div	n Analyzer - Swept SA RF 50 Q AC PR 2.479500000 GH PN	Z 0: Wilde ↔ Trig: Free R	JLSE     #Avg Typ un Avg Hold:	DQPSK_24	3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency Auto Tur
Agilent Spectrum XX RL Center Fre 10 dB/div Log 10.0	n Analyzer - Swept SA RF 50 Q AC 9 eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm	Z O: Wide +++ ain:Low #Atten: 30 d	JLSE     #Avg Typ un Avg Hold:	DQPSK_24 ALIGN AUTO 01:5 10/10 ΔMkr1 1Δ2	3:39 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE [M WWWWW DET [P P P P P P 1.022 MHz 1.794 dB	
Agilent Spectrum X RL Center Fre 10 dB/div Log 10.0 .000 .10.0 .20.0 .30.0	n Analyzer - Swept SA RF 50 Q AC 9 eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm	Z 0: Wilde ↔ Trig: Free R	JLSE     #Avg Typ un Avg Hold:	DQPSK_24	3:39 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE [M WWWWW DET [P P P P P P 1.022 MHz 1.794 dB	Auto Tur Center Fre
Agilent Spectrum (X) RL Center Fre 10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0	n Analyzer - Swept SA RF 50 Q AC 9 eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm	Z O: Wide +++ ain:Low #Atten: 30 d	JLSE     #Avg Typ un Avg Hold:	DQPSK_24 ALIGN AUTO 01:5 10/10 ΔMkr1 1Δ2	3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE IM WWWWW DET P P P P P P 1.022 MHz 1.794 dB 2. 4.02 80 0 cm	Auto Tur Center Fre 2.479500000 GH Start Fre
Agilent Spectrum XX RL Center Fre 10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	n Analyzer - Swept SA RF 50 Q AC eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm 	Z O: Wide +++ ain:Low #Atten: 30 d	JLSE     #Avg Typ un Avg Hold: B		3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE IM WWWW DET P P P P P P 1.022 MHz 1.794 dB 2.480500 GHz ms (1001 pts)	Auto Tur Center Fre 2.479500000 GF Start Fre 2.478500000 GF 2.480500000 GF 2.480500000 GF CF Ste 200.000 kF
Agilent Spectrum XI RL Center Fre 10 dB/div Log 10.0 -0.00 -20.0 -30.0 -40.0 -60.0 -60.0 -70.0 Start 2.4784 #Res BW 11 MKR MODE TRC	n Analyzer - Swept SA RF 50 & AC eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm 	Z O: Wide ↔ Trig: Free R #Atten: 30 d	USE #Avg Typ un Avg Hold: B	DQPSK_24	3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE IM WWWW DET P P P P P P 1.022 MHz 1.794 dB 2.480500 GHz ms (1001 pts)	Auto Tur Center Fre 2.479500000 GF Start Fre 2.478500000 GF 2.480500000 GF 2.480500000 GF CF Ste 200.000 kF
Agilent Spectrum X RL Center Fre 10 dB/div Log 10.0 .000 .10.0 .20.0 .30.0 .40.0 .60.0 .60.0 .60.0 .60.0 .70.0 Start 2.4785 #Res BW 10 MKR MODE TRC 1 A2 5	n Analyzer - Swept SA RF 50 & AC eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm 	Z O: Wide ↔ Trig: Free R #Atten: 30 d #Atten: 30 d 2 2 2 4 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	JUSE   / / / / / / / / / / / / / / / / / /	DQPSK_24	3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE IMWWWW DET P P P P P P 1.022 MHz 1.794 dB 2.000 MHz 2.000 MHz 2.480500 GHz ms (1001 pts)	Auto Tur Center Fre 2.479500000 GF Start Fre 2.478500000 GF 2.480500000 GF 2.480500000 GF CF Ste 200.000 kF
Agilent Spectrum X RL Center Fre 10 dB/div Log 10.0 -0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -60.0 -70.0 Start 2.4783 #Res BW 11 MKR MODE TRC 1 A2 3 4	n Analyzer - Swept SA RF 50 Q AC eq 2.479500000 GH PN IFG Ref Offset 7.01 dB Ref 20.00 dBm 	Z O: Wide ↔ Trig: Free R #Atten: 30 d #Atten: 30 d 2 2 2 4 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	JUSE   / / / / / / / / / / / / / / / / / /	DQPSK_24	3:39 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE IMWWWW DET P P P P P P 1.022 MHz 1.794 dB 2.000 MHz 2.000 MHz 2.480500 GHz ms (1001 pts)	Auto Tur Center Fre 2.479500000 GH 2.478500000 GH 2.478500000 GH 2.480500000 GH 2.480500000 GH CF Ste 200.000 kH Auto Ma

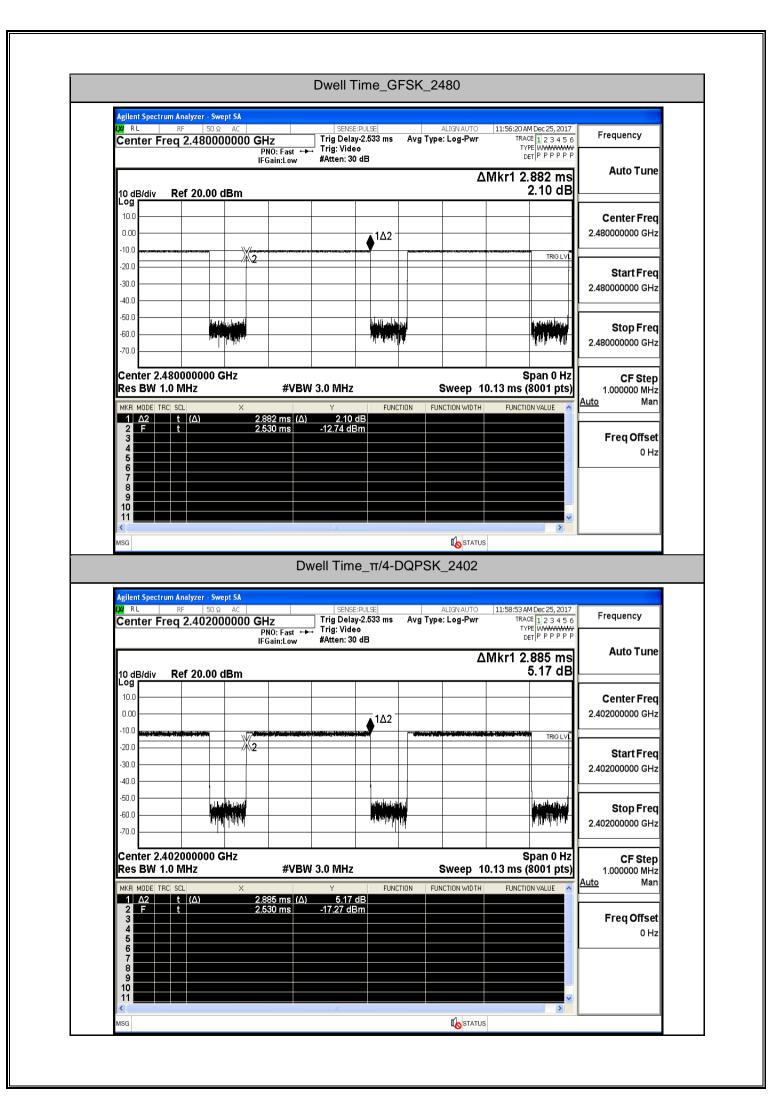
5 6 Frequency	01:58:01 PM Dec 25, 2017 TRACE 1 2 3 4 5 6	ALIGN AUTO	SENSE:PULSE		AC	m Analyzer - Swe RF 50 Ω eq 2.40250	XI RL
z Auto Tur	TYPE MWWWW DET P P P P P P kr1 1.002 MHz 0.028 dB	/g Hold: 10/10 ΔΜΙ	Frig: Free Run Atten: 30 dB	IO: Wide ↔ Gain:Low	01 dB	Ref Offset 7.0	
Center Fre					abm	Ref 20.00 c	10 dB/div Log 10.0
2.402500000 GH	Amonto and	1∆2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	~~~~~		-10.0
Start Fre						·	-20.0
2.401500000 GH							-30.0
Stop Fre							-50.0
2.403500000 GH							-70.0
	op 2.403500 GHz 000 ms (1001 pts)		00 kHz	#VBW		1500 GHz 100 kHz	Start 2.40 #Res BW
Auto Mai		•	Y FI 0.028 dB	2 MHz (Δ)	× 1.00		MKR MODE TI
Freq Offse			3.767 dBm	0 GHz	2.401 81	f	2 F 3 4
0 H	=						5 6
							7 8 9
							10
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	441	to status	ency Separ	rier Freq	Car		<
	01:59:37 PM Dec 25, 2017	n_8-DPSK_24	ency Separ		ept SA AC		Agilent Spectr
5 6 Frequency		n_8-DPSK_24			ept SA AC D0000 GH PI		Agilent Spectr
Auto Tune	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P kr1 1.202 MHz	n_8-DPSK_24 ALIGNAUTO wg Type: RMS vg Hold: 10/10	SENSE:PULSE	<b>1</b> Z 10: Wide ↔ → →	ept SA AC DOOOO GH Pt IF( D1 dB	RF 50 Ω eq 2.44150 Ref Offset 7.0	Agilent Spectr
5 6     Frequency       P P     Auto Tun       Iz     Auto Tun	01:59:37 PMDec 25,2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P kr1 1.202 MHz 1.883 dB	ALIGNAUTO wg Type: RMS gHold: 10/10	SENSE:PULSE	<b>1</b> Z 10: Wide ↔ → →	ept SA AC DOOOO GH Pt IF( D1 dB	RF 50 Ω eq 2.44150	Agilent Spectr
5 6     Frequency       Iz     Auto Tun       B     Center Frequency       2.441500000 GH	01:59:37 PMDec 25, 2017 TRACE [] 2 3 4 5 6 TYPE MWWWWW DET   P P P P P P kr1 1.202 MHz 1.883 dB	ALIGNAUTO wg Type: RMS gHold: 10/10	SENSE:PULSE	IZ I0: Wide ↔ Gain:Low	ept SA AC   PT PT IF4 D1 dB dBm	RF 50 Ω eq 2.44150	Agilent Spectr Agilent Spectr X RL Center F 10 dB/div Log 10.0 0.00
Auto Tun Auto Tun Center Free 2.441500000 GH	01:59:37 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE M WWWW DET P P P P P kr1 1.202 MHz 1.883 dB Δ2	ALIGN AUTO ALIGN AUTO Ivg Type: RMS /g Hold: 10/10 AMI	SENSE:PULSE	IZ I0: Wide ↔ Gain:Low	ept SA AC   PT PT IF4 D1 dB dBm	RF 50 Ω eq 2.44150 Ref Offset 7.0	Agilent Spectr Agilent Spectr X RL Center F 10 dB/div Log 10.0 0.00
Auto Tun Auto Tun Center Free 2.441500000 GH	01:59:37 PMDec 25, 2017 TRACE [] 2 3 4 5 6 TYPE MWWWWW DET   P P P P P P kr1 1.202 MHz 1.883 dB	ALIGN AUTO ALIGN AUTO Ivg Type: RMS /g Hold: 10/10 AMI	SENSE:PULSE	IZ I0: Wide ↔ Gain:Low	ept SA AC   PT PT IF4 D1 dB dBm	RF 50 Ω eq 2.44150	Agilent Spectr Agilent Spectr X RL Center F 10 dB/div Log 10.0 0.00 -10.0
Auto Tun Auto Tun Center Free 2.441500000 GH 2.440500000 GH	01:59:37 PMDec 25, 2017 TRACE [] 2 3 4 5 6 TYPE MWWWWW DET   P P P P P P kr1 1.202 MHz 1.883 dB	ALIGN AUTO ALIGN AUTO Ivg Type: RMS /g Hold: 10/10 AMI	SENSE:PULSE	IZ I0: Wide ↔ Gain:Low	ept SA AC   PT PT IF4 D1 dB dBm	RF 50 Ω eq 2.44150	Agilent Spectr X RL Center F 10 dB/div Center F 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0
Auto Tun Auto Tun Center Free 2.441500000 GH 2.440500000 GH Stop Free	01:59:37 PMDec 25, 2017 TRACE [] 2 3 4 5 6 TYPE MWWWWW DET   P P P P P P kr1 1.202 MHz 1.883 dB	ALIGN AUTO ALIGN AUTO Ivg Type: RMS /g Hold: 10/10 AMI	SENSE:PULSE	IZ I0: Wide ↔ Gain:Low	ept SA AC   PT PT IF4 D1 dB dBm	RF 50 Ω eq 2.44150	Agilent Spectr X RL Center F 10 dB/div Log 10.0 -10.0 -20.0 -30.0 -40.0
Frequency           Auto Tun           Center Fre           2.441500000 GH           Start Fre           2.440500000 GH           Stop Fre           2.442500000 GH           Tz           CF Step	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE M WWWW DeT P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 	n_8-DPSK_24	SENSE:PULSE	Iz I0: Wide ↔ Sain:Low	ept SA AC   PT PT IF4 D1 dB dBm	Ref Offset 7.0 Ref 20.00 c	Agilent Spectr           X         RL         I           Center F         I <thi< th="">         I         I</thi<>
Stop Frequency           Auto Tun           B         Center Fre           2.441500000 GH           Start Fre           2.440500000 GH           Stop Fre           2.442500000 GH           Stop Fre           2.442500000 GH           Stop Fre           2.442500000 GH           Stop Stop Fre           2.442500000 GH           Stop Stop Stop Stop Stop Stop Stop Stop	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 Cop 2.442500 GHz 000 ms (1001 pts)	ALIGNAUTO Wg Type: RMS gHold: 10/10 ΔΜΙ ΔΜΙ ΔΜΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΜ	SENSE:PULSE	Iz 0: Wide ↔ Sain:Low	ept SA AC   D00000 GH PP IF D1 dB dBm ( C C C C C C C C C C C C C	Ref Offset 7.0 Ref 20.00 c	Agilent Spectri           X         RL           Center F           10 dB/div           200           -20.0           -30.0           -50.0           -60.0           -70.0           Start 2.44           #Res BW
Frequency         Auto Tun         B         Center Fre         2.441500000 GH         Start Fre         2.440500000 GH         Stop Fre         2.442500000 GH         Iz         CF Ste         200.000 kH         Auto         Auto	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 cop 2.442500 GHz 000 ms (1001 pts)	ALIGNAUTO Wg Type: RMS gHold: 10/10 ΔΜΙ ΔΜΙ ΔΜΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΜ	SENSE:PULSE Trig: Free Run Atten: 30 dB	Iz 0: Wide ↔ Sain:Low 4000000000000000000000000000000000000	ept SA AC   D00000 GH PP IF D1 dB dBm ( C C C C C C C C C C C C C	Ref Offset 7.0 Ref 20.00 c	Agilent Spectr           X         RL           Center F           10         dB/div           10.0
Auto Tun Auto Tun Center Free 2.441500000 GH 2.440500000 GH 2.440500000 GH 2.442500000 GH 2.442500000 GH 2.442500000 GH Auto Ma Freq Offsee	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 cop 2.442500 GHz 000 ms (1001 pts)	ALIGNAUTO Wg Type: RMS gHold: 10/10 ΔΜΙ ΔΜΙ ΔΜΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΜ	SENSE:PULSE	Iz 0: Wide ↔ Sain:Low 4000000000000000000000000000000000000	ept SA AC   D0000 GH PP IF D1 dB dBm ( PV^AGeneration ( PV^AGeneration ( PVAGeneration (	Ref Offset 7.0 Ref 20.00 c	Agilent Spectr           X           RL           Center F           10 dB/div           Conter F           10.0           .00           .10.0           .20.0           .30.0           .40.0           .50.0           .60.0           .70.0           Start 2.44           #Res BW           MKR MODE TI           1 A2           2 F
Auto Tuni Auto Tuni Center Free 2.441500000 GH 2.440500000 GH 2.440500000 GH 2.442500000 GH 2.442500000 GH 4z CF Step 200.000 kH Auto Mai	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 cop 2.442500 GHz 000 ms (1001 pts)	ALIGNAUTO Wg Type: RMS gHold: 10/10 ΔΜΙ ΔΜΙ ΔΜΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΜ	SENSE:PULSE	Iz 0: Wide ↔ Sain:Low 4000000000000000000000000000000000000	ept SA AC   D0000 GH PP IF D1 dB dBm ( PV^AGeneration ( PV^AGeneration ( PVAGeneration (	Ref Offset 7.0 Ref 20.00 c	Agilent Spectri           X         RL           Center F           10 dB/div           200           -10.0
S 6       Frequency         Iz       Auto Tune         B       Center Freq         2.441500000 GH:       Start Freq         2.440500000 GH:       Stop Freq         2.442500000 GH:       Stop Freq         2.442500000 GH:       Auto Mar         Freq Offse       0 H:	01:59:37 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P kr1 1.202 MHz 1.883 dB Δ2 Δ2 Cop 2.442500 GHz Cop 2.442500 GHz DO0 ms (1001 pts) FUNCTION VALUE	ALIGNAUTO Wg Type: RMS gHold: 10/10 ΔΜΙ ΔΜΙ ΔΜΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΙ ΔΜΙ ΔΜ	SENSE:PULSE	Iz 0: Wide ↔ Sain:Low 4000000000000000000000000000000000000	ept SA AC   D0000 GH PP IF D1 dB dBm ( PV^AGeneration ( PV^AGeneration ( PVAGeneration (	Ref Offset 7.0 Ref 20.00 c	Agilent Spectr           X         RL           Center F           10 dB/div           Cog           10.0

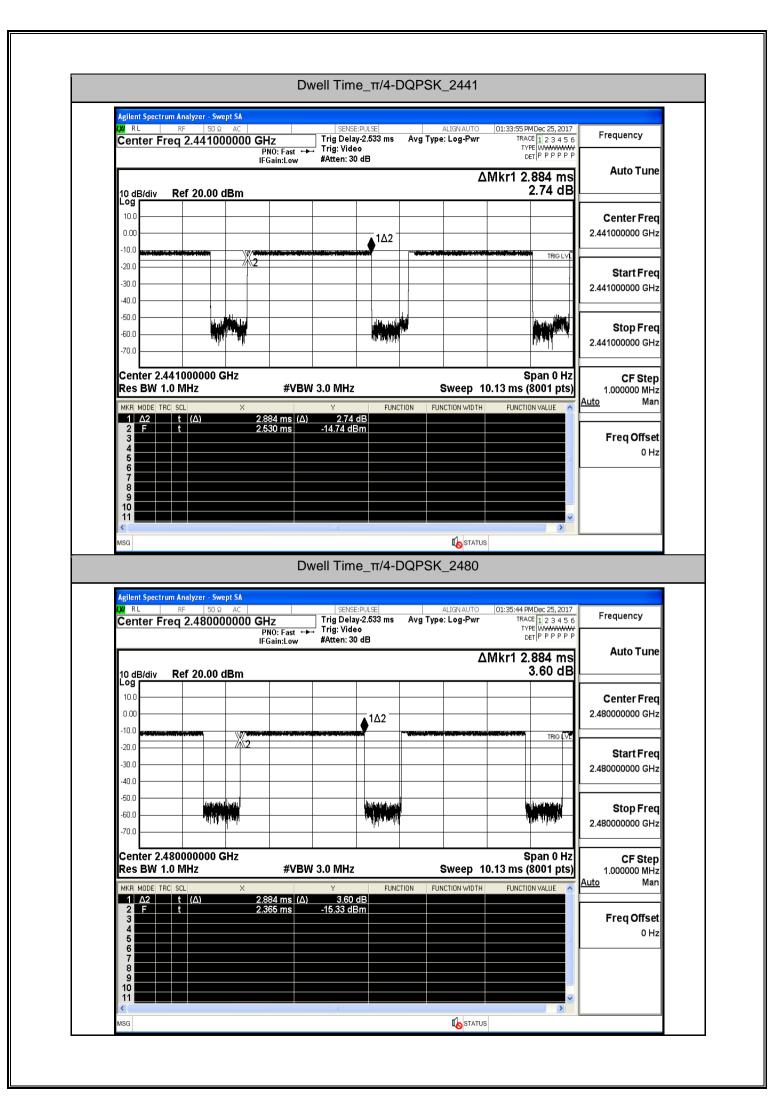
Frequency	PMDec 25, 2017 <sup>ACE</sup> 1 2 3 4 5 6 YPE M <del>WWWWW</del> DET P P P P P	TRA	ALIGN AUTO ype: RMS Id: 10/10		sense:PULse g: Free Run ten: 30 dB	Z 0: Wide ↔ → ain:Low	PN	req 2.4795	X RL Center F
Auto Tu	262 MHz 1.375 dB		۱Δ				01 dB	Ref Offset 7. Ref 20.00	10 dB/div
<b>Center Fr</b> 2.479500000 G	and a start a	↓ <sup>1Δ2</sup>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	babban	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-margar Mar		10.0
<b>Start Fre</b> 2.478500000 GH									-20.0
<b>Stop Fre</b> 2.480500000 G⊦									-50.0
CF Ste 200.000 k⊢ <u>Auto</u> Ma	80500 GHz (1001 pts)	1.000 ms		UNCTION	, 1.375 dB	#VBW :		f (Δ)	#Res BW
FreqOffs 0⊦					101 dBm	i GHz	2.478 82	f	2 F 3 4 5 6 7

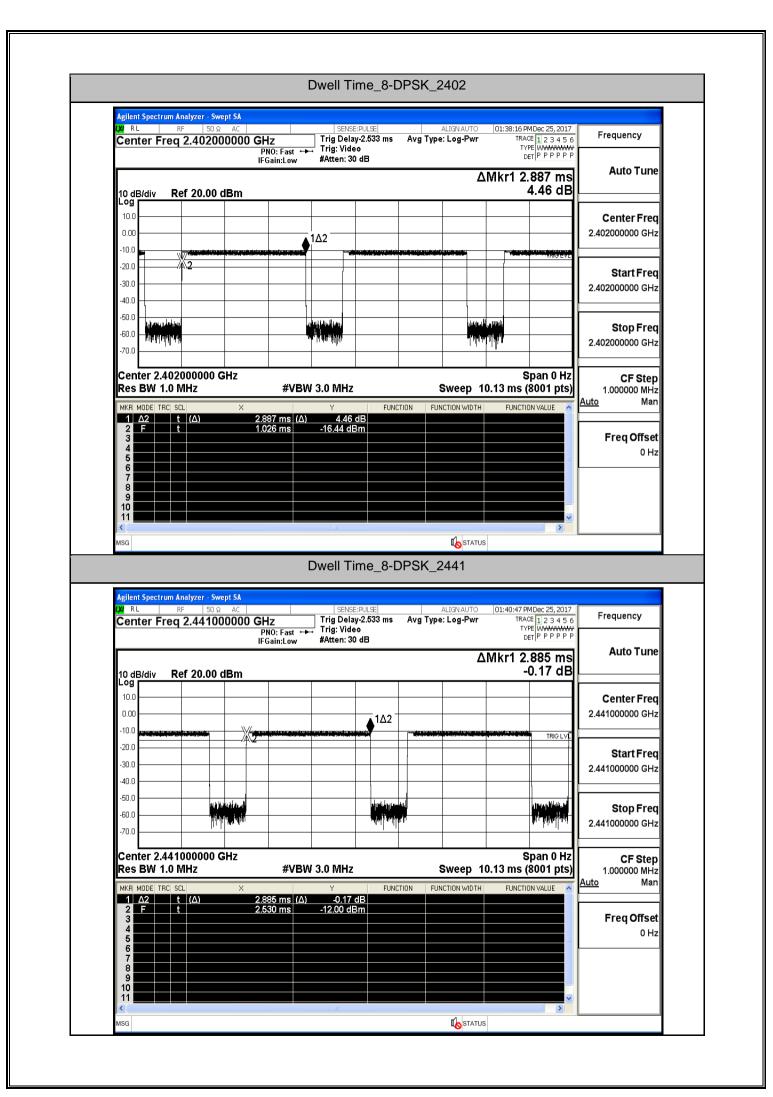
#### A.4 Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
	2402	2.88	106.7	0.307	0.4	PASS
GFSK	2441	2.88	106.7	0.307	0.4	PASS
	2480	2.88	106.7	0.307	0.4	PASS
	2402	2.89	106.7	0.308	0.4	PASS
π/4-DQPSK	2441	2.88	106.7	0.307	0.4	PASS
	2480	2.88	106.7	0.307	0.4	PASS
	2402	2.89	106.7	0.308	0.4	PASS
8-DPSK	2441	2.89	106.7	0.308	0.4	PASS
	2480	2.89	106.7	0.308	0.4	PASS









Center Fr	req 2.48000	PN	Z O: Fast ↔→ ain:Low	Trig Delay Trig: Video #Atten: 30	>	Avg Type	: Log-Pwr	01:42:30 PMI TRACE TYPE DET	123456 WWWWWWW PPPPPP	Frequency
10 dB/div	Ref 20.00 (	dBm					Δľ	//kr1 2.8 3	887 ms .95 dB	Auto Tune
10.0 0.00					Δ2					Center Freq 2.480000000 GHz
-10.0 <b>Hereinstein</b> -20.0 -30.0		2							TRIGENE	Start Freq 2.480000000 GHz
-40.0	والعالية والعراقية والمراجع									Stop Freq
-60.0	, in the second s			71	are politica ti			Ministration		2.480000000 GHz
Center 2.4 Res BW 1	180000000 C .0 MHz	SHz	#VBW	3.0 MHz			Sweep 10			CF Step 1.000000 MHz <u>Auto</u> Man
MKR MODE TF	3C SCL t (∆) t	× 2.88 2.01	87 ms (∆) ′5 ms	Y <u>3.95 d</u> -15.93 dB	B	CTION FUN	CTION WIDTH	FUNCTION	VALUE	Freq Offset
4 5 6										0 Hz

# A.5 Hopping Channel Number

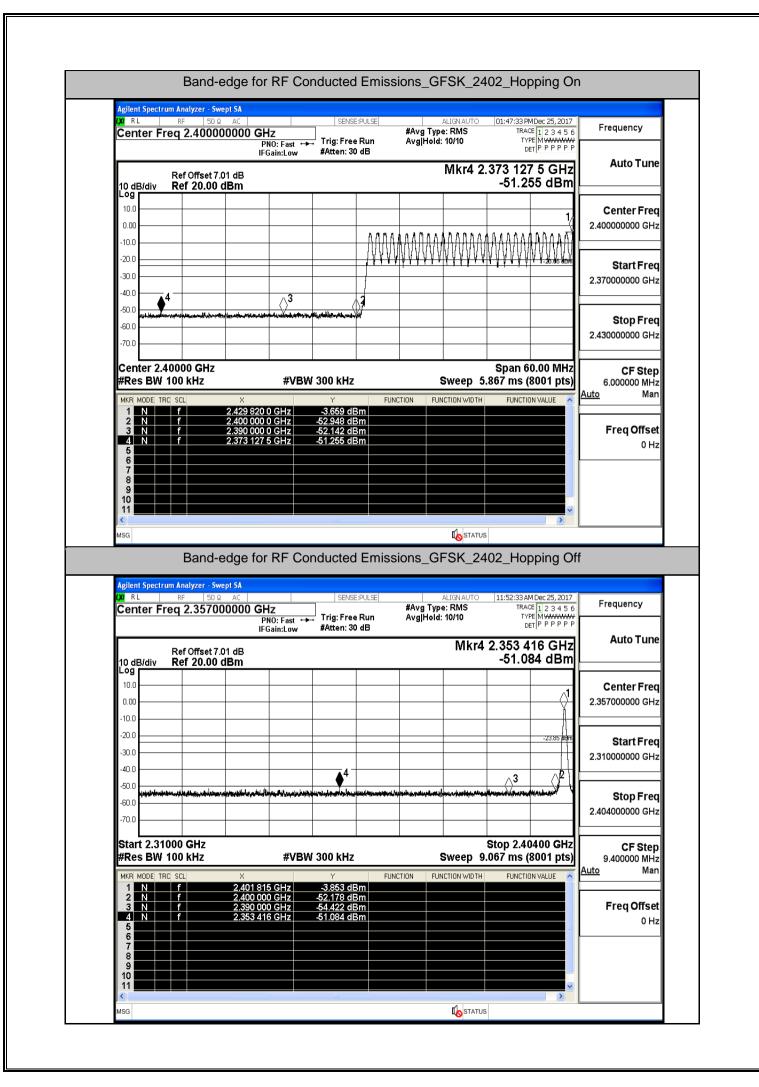
Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	2402	79	>=15	PASS
π/4-DQPSK	2402	79	>=15	PASS
8-DPSK	2402	79	>=15	PASS

Center Freq 2.441	PNO: Fast 🛶 Trig: Free Run	ALIGNAUTO ( #Avg Type: RMS Avg Hold: 10/10	1:49:27 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P	equency
Ref Offse 10 dB/div Ref 20.0		ΔMkr1	78.093 MHz -0.007 dB	Auto Tune
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>, , , , , , , , , , , , , , , , , , , </u>	2.44	<b>Center Freq</b> 1750000 GHz
-30.0		<u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>		Start Freq 0000000 GHz
-50.0 -60.0 -70.0			2.48	Stop Freq 3500000 GHz
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz	Sweep 8.00	Auto	<b>CF Step</b> 3.350000 MHz Man
MKR         MODE         TRC         SCL           1         Δ2         f         (Δ)           2         F         f           3         -         -           4         -         -	× γ 78.093 MHz (Δ) -0.007 dB 2.402 025 GHz -4.120 dBm	FUNCTION FUNCTION WIDTH		Freq Offset 0 Hz
5 6 7 8				
9				
9 10 11 ×			×	
10 <b>11</b>	Hopping Channel Nun	-		
10 11 MSG Agilent Spectrum Analyzer -	Swept SA 0 Ω AC SENSE:PULSE 750000 GHz	nber_π/4-DQPSK_2	2402 1:56:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 Fr	equency
Agilent Spectrum Analyzer - VI RL RF 5 Center Freq 2.441 Ref Offset	Swept SA O Ω AC SENSE:PULSE 750000 GHz PN0: Fast ↔ IFGain:Low #Atten: 30 dB 7.01 dB	nber_π/4-DQPSK_2 ALIGNAUTO 0 #Avg Type: RMS Avg Hold: 10/10	2402	equency Auto Tune
Agilent Spectrum Analyzer - XI RL RF 5 Center Freq 2.441 Ref Offset 10 dB/div Ref 20.0 10.0 0.00	Swept SA O Ω AC SENSE:PULSE 750000 GHZ PN0: Fast ↔ IFGain:Low #Atten: 30 dB :7.01 dB 0 dBm	nber_π/4-DQPSK_2	2402 1:56:06 PMDec 25,2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 77.989 MHz -3.507 dB	
Agilent Spectrum Analyzer - MSG Agilent Spectrum Analyzer - MRL RF 5 Center Freq 2.441 Ref Offset OdB/div Ref 20.0 OdB/div Ref 20.0 OdB/div Ref 20.0	Swept SA O Ω AC SENSE:PULSE 750000 GHz PN0: Fast ↔ IFGain:Low #Atten: 30 dB 7.01 dB	nber_π/4-DQPSK_2	2402 1:56:06 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 77.989 MHz -3.507 dB -3.507 dB -3.507 dB	Auto Tune
Agilent Spectrum Analyzer -           Msg           Agilent Spectrum Analyzer -           Msg           Center Freq 2.441           Ref Offset           OdB/div         Ref 20.0           Log           10.0           .000           .10.0           .20.0	Swept SA 0 ♀ AC SENSE:PULSE 750000 GHZ PN0: Fast ↔ Trig: Free Run IFGain:Low #Atten: 30 dB :7.01 dB 0 dBm	nber_π/4-DQPSK_2	2402 1:56:06 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 77.989 MHz -3.507 dB -3.507 dB -3.507 dB -3.507 dB -3.507 dB -3.507 dB	Auto Tune Center Freq 1750000 GHz Start Freq 0000000 GHz Stop Freq
Agilent Spectrum Analyzer - 00 RL         RF         5           Center Freq 2.441         Ref Offset         0           10.0         Ref 20.0         0           10.0	Swept SA 0 ♀ AC SENSE:PULSE 750000 GHZ PN0: Fast ↔ Trig: Free Run IFGain:Low #Atten: 30 dB :7.01 dB 0 dBm	nber_π/4-DQPSK_2	2402 1:56:06 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TVPE P P P P P P 77.989 MHz -3.507 dB 2.40 2.40 2.40 2.40 2.40 2.40	Auto Tune Center Freq 1750000 GHz Start Freq 0000000 GHz
Agilent Spectrum Analyzer -           Msg         Ref Offset           Msg         Ref Offset           OdB/div         Ref Offset           10 dB/div         Ref 20.0           10.0	Swept SA         SENSE:PULSE           750000 GHz PN0: Fast →→ IFGain:Low         Trig: Free Run #Atten: 30 dB           7.01 dB 0 dBm	nber_π/4-DQPSK_2	2402 1:56:06 PM Dec 25, 2017 TRACE 1 2 3 4 5 Fr TYPE MWWWWW DET P P P P P P 77.989 MHz -3.507 dB 2.44 2.40 2.44 2.40 2.44 2.40 2.44 2.40 2.44 2.40 4.4	Auto Tune Center Freq 1750000 GHz Start Freq 0000000 GHz Stop Freq 3500000 GHz CF Step

Center Freq 2.44	Swept SA           50 Ω         AC           1750000 GHz	SENSE:PULSE	ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	02:02:27 PMDec 25, 2017 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast ← IFGain:Low et 7.01 dB .00 dBm	#Atten: 30 dB		r1 77.937 MHz -2.812 dB	Auto Tune
	horopean the manual		had much hill have had been	1D2	Center Freq 2.441750000 GHz
-20.0			······································		<b>Start Freq</b> 2.40000000 GHz
-50.0				hu	<b>Stop Freq</b> 2.483500000 GHz
Start 2.40000 GHz #Res BW 100 kHz		W 300 kHz		Stop 2.48350 GHz 000 ms (8001 pts)	CF Step 8.350000 MHz <u>Auto</u> Man
	77.937 MHz(∆ 2.401 827 GHz				Freq Offset 0 Hz
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				E	0112

A.6 Band-edge for RF	<b>Conducted Emissions</b>
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Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
	2402	On	-3.659	-51.255	-23.66	PASS
GFSK	2402	Off	-3.853	-51.084	-23.85	PASS
GFSK	2480	On	-3.660	-50.761	-23.66	PASS
	2480	Off	-3.569	-51.294	-23.57	PASS
	2402	On	-3.687	-50.578	-23.69	PASS
π/4-DQPSK	2402	Off	-3.794	-50.829	-23.79	PASS
11/4-DQF3N	2480	On	-3.627	-49.927	-23.63	PASS
	2480	Off	-3.516	-51.006	-23.52	PASS
	2402	On	-3.756	-50.982	-23.76	PASS
8-DPSK	2402	Off	-3.712	-51.256	-23.71	PASS
0-042V	2480	On	-3.668	-50.247	-23.67	PASS
	2480	Off	-3.341	-50.762	-23.34	PASS

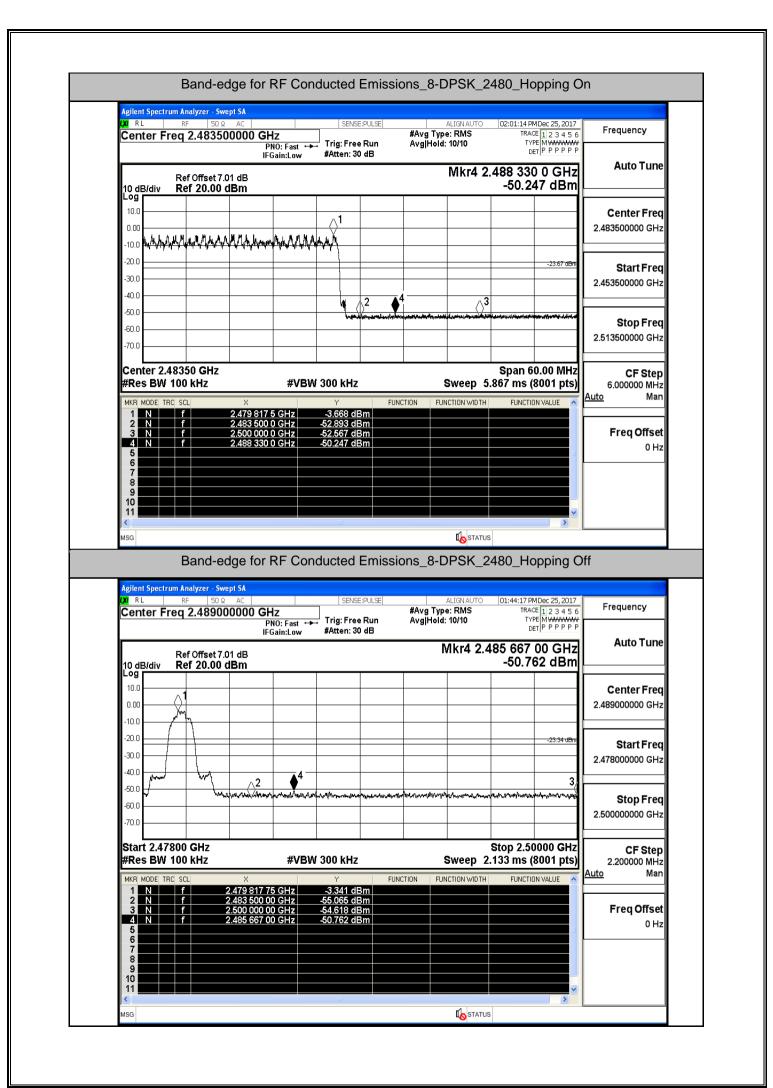


	01:48:43 PM Dec 25, 2017 TRACE 1 2 3 4 5 6	ALIGNAUTO #Avg Type: RMS	SENSE:PULSE	7	AC	nalyzer - Swe F 50 Ω <b>2.48350</b>	. R	XI RL
P	TYPE MWWWWW DET P P P P P P	Avg Hold: 10/10	Trig: Free Run #Atten: 30 dB	∠ IO: Fast ↔ ain:Low	PN	2.40000		0011
	489 732 5 GHz -50.761 dBm	Mkr4 2.4				of Offset 7.0 ef <b>20.00</b> d		
Center Free					.1			Log 10.0
2.483500000 GH			N A A A	חהההחת	 ∧∩∩∩∩∧	ለለስለስለ	ለበለበለ	0.00 -10.0
Start Fred	-23.66 dBm			<u> </u>	ŴŶŶŶŶ	IVYYVV	YYYYY	-20.0
2.453500000 GHz								-30.0
	สระนะเหน่าน เหนือเป็นไปเร็จ เหนือเป็นมีเหนือเป็น		2					-40.0 -50.0
Stop Fred 2.513500000 GHz								-60.0
	Span 60.00 MHz					50 CH2	ter 2.483:	-70.0 Con
) 6.000000 MHz	867 ms (8001 pts)	Sweep 5.3	N 300 kHz	#VBW			s BW 100	
Auto Man	FUNCTION VALUE	UNCTION FUNCTION WIDTH	Y F -3.660 dBm	GHz	× 2.466 820 0		MODE TRC SO	
Freq Offset			-53.339 dBm -53.724 dBm	GHz	2.483 500 0 2.500 000 0 2.489 732 5		N f	23
0 Hz			-50.761 dBm	GHZ	2.4897325		N f	4 5 6
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Frequency	80_Hopping Of	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	Z	DT SA AC DOOOO GH PN IFG 1 dB	nalyzer - Swe F 50 Ω 2.48900 f Offset 7.0	t Spectrum A 	10 11 Msg Agilent XI RL Cent
Frequency	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET [P P P P P 95 022 50 GHz	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	Z 0: Fast ↔	DT SA AC DOOOO GH PN IFG 1 dB	nalyzer - Swe F 50 Ω <b>2.48900</b>	t Spectrum A 	10 11 Agilent XI R L Cent
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7       6         P       Auto Tune         Center Freq       2.489000000 GHz	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	Z 0: Fast ↔	DT SA AC DOOOO GH PN IFG 1 dB	nalyzer - Swe F 50 Ω 2.48900 f Offset 7.0	t Spectrum A 	10 11 1 11 4 MSG 4 MSG 7 MSG 7 M
Auto Tune Center Freq 2.48900000 GHz Start Freq	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET [P P P P P 95 022 50 GHz	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	Z 0: Fast ↔	DT SA AC DOOOO GH PN IFG 1 dB	nalyzer - Swe F 50 Ω 2.48900 f Offset 7.0	t Spectrum A 	10 11 4 Agilent Agilent Agilent Agilent 10 dE Cent 10.0 0.00
Z       Frequency         Auto Tune         Z         Center Freq         2.48900000 GHz         Start Freq         2.47800000 GHz	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWWW DET P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	Z 0: Fast ↔	Dot SA AC   D0000 GH PN IFG 1 dB Bm	nalyzer - Swe F 50 Ω 2.48900 f Offset 7.0	t Spectrum A 	10 11 11 ▲ MSG Agilent XI RL Cent 10.0 0.00 -10.0 -20.0 -30.0 -40.0
Z         Frequency           Auto Tune           Center Freq           2.48900000 GH:           2.48900000 GH:           2.478000000 GH:	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm	Avg Type: RMS AvgHold: 10/10 Mkr4 2.4	SENSE:PULSE	Z IO: Fast ↔	Dot SA AC   D0000 GH PN IFG 1 dB Bm    2	nalyzer - Swe F 50 2 2.48900 of Offset 7.0 of 20.00 d	t Spectrum A 	10 11 MSG Agilent X RL Cent 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0
7       6         Frequency         Auto Tune         Center Freq         2.48900000 GHz         Start Freq         2.47800000 GHz         Stop Freq	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10 Mkr4 2.4	SENSE:PULSE	Z IO: Fast ↔	Dot SA AC   D0000 GH PN IFG 1 dB Bm    2	nalyzer - Swe F 50 2 2.48900 of Offset 7.0 of 20.00 d	t Spectrum A 	10 11 11 ▲ MSG Agilent XI RL Cent 10.0 0.00 -10.0 -20.0 -30.0 -40.0
7       6         Frequency         Auto Tune         Center Frequency         Center Frequency         Start Frequency         Start Frequency         Stop Frequency         Stop Frequency         Center Frequency         Center Frequency         Start Frequency         Center Frequency	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4	SENSE:PULSE	Z IO: Fast → ain:Low	Dot SA AC   D0000 GH PN IFG 1 dB Bm    2	nalyzer - Swej F 50 2 2.48900 f Offset 7.0 cf 20.00 d	t Spectrum A ter Freq B/div Re	10 dE MSG Agilent X RLC Cent 10.0 -10.0 -20.0 -30.0 -20.0 -30.0 -50.0 -50.0 -50.0 -50.0 Start
Z         Frequency           Auto Tune           Center Frequency           Center Frequency           Center Frequency           Start Frequency           Start Frequency           Start Frequency           Stop Frequency           Center Frequency           Start Frequency           Stop Frequency           CF Step           2.200000 MHz	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/ 3/ 51 0000 GHz 133 ms (8001 pts)	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4: Mkr4 2.4:	SENSE:PULSE	Z IO: Fast → ain:Low	C SA AC   D000 GH PN IFG 1 dB Bm	nalyzer - Swe F 50 2 2.48900 of Offset 7.0 of 20.00 d 1 1 - - - - - - - - - - - - -	t 2.478000 s BW 100	10 11 12 MSG Agilent X RL Cent 10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -50.0 Start #Res
Z         Frequency           Auto Tune           Center Frequency           Center Frequency           Center Frequency           Start Frequency           Start Frequency           Start Frequency           Stop Frequency           CF Step           2.200000 MH           Auto Tune	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm -23:57 dBm	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4	SENSE:PULSE Trig: Free Run #Atten: 30 dB	Z 10: Fast → ain:Low #VBW	>t SA AC   PN IFG 1 dB Bm 2 2 www.show.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or./www.or.//www.or.//www.or.//www.or.//www.or.//www.or.//www.or.//www.or.///www.or.///www.or.///www.or.///www.or.///www.or.////www.or.//////////	nalyzer - Swej F 50 2 2.489000 of Offset 7.0 ef 20.00 d 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t Spectrum A ter Freq B/div Re B/div Re t 2.47800 s BW 100 MODE TRC SC N 6	10 dE Agilent MSG Agilent
7       6       Frequency         P       Auto Tune         Center Freq       2.48900000 GHz         2       Start Freq         2.478000000 GHz       2.47800000 GHz         2       Stop Freq         2.50000000 GHz       2.5000000 GHz         2       CF Step         2.200000 MHz       Mar         Freq Offset       5	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/ 3/ 51 0000 GHz 133 ms (8001 pts)	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4: Mkr4 2.4:	SENSE:PULSE	Z 0: Fast → ain:Low #VBW GHz GHz GHz GHz GHz	≥ AC   D000 GH PN IFG 1 dB Bm 2 2 both your / hour 2 both your / hour X	nalyzer - Swej F 50 2 2.48900 of Offset 7.0 ef 20.00 d 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t 2.47800 s BW 100	10 dE MSG Agilent X RL Cent 10 dE Cent 10.0 -
7       6       Frequency         Auto Tune       Center Frequency         Center Frequency       2         Center Frequency       2         Start Frequency       2         Stop Frequency       2         Stop Frequency       2         CF Step       2.200000 MHz         Auto       Mar         Freq Offset       3	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/ 3/ 51 0000 GHz 133 ms (8001 pts)	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4: Mkr4 2.4:	SENSE:PULSE  → Trig: Free Run #Atten: 30 dB → → → → → → → → → → → → → → → → → → →	Z 0: Fast → ain:Low #VBW GHz GHz GHz GHz GHz	AC   D000 GH PN IFG 1 dB Bm 2 2 2 480 120 25 480 120 25 483 500 00	nalyzer - Swej F 50 2 2.48900 of Offset 7.0 ef 20.00 d 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t 2.47800 s BW 100	10 11 MSG Agilent X RL Cent X RL Ce
Z         Frequency           Auto Tune           Center Freq           2.48900000 GHz           2.48900000 GHz           2.47800000 GHz           2.47800000 GHz           2.5000000 GHz           2.5000000 GHz           2.5000000 GHz           2.5000000 GHz           2.5000000 GHz           2.5000000 GHz           2.50000000 GHz           2.50000000 GHz	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/ 3/ 51 0000 GHz 133 ms (8001 pts)	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4: Mkr4 2.4:	SENSE:PULSE  → Trig: Free Run #Atten: 30 dB → → → → → → → → → → → → → → → → → → →	Z 0: Fast → ain:Low #VBW GHz GHz GHz GHz GHz	AC   D000 GH PN IFG 1 dB Bm 2 2 2 480 120 25 480 120 25 483 500 00	nalyzer - Swej F 50 2 2.48900 of Offset 7.0 ef 20.00 d 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t 2.47800 s BW 100	10 11 Agilent MSG Agilent
Z       Frequency         Auto Tune         Z         Center Freq         2.48900000 GHz         2.48900000 GHz         2.47800000 GHz         2.47800000 GHz         2.20000 GHz         2.200000 GHz         2.200000 GHz         2.200000 GHz         2.200000 GHz         CF Step         2.200000 MHz         Auto         Freq Offset         0 Hz	80_Hopping Of 11:56:48 AM Dec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET  P P P P P 95 022 50 GHz -51.294 dBm -23:57 dBm 3/ 3/ 51 0000 GHz 133 ms (8001 pts)	ALIGNAUTO #Avg Type: RMS AvgHold: 10/10 Mkr4 2.4: Mkr4 2.4:	SENSE:PULSE  → Trig: Free Run #Atten: 30 dB → → → → → → → → → → → → → → → → → → →	Z 0: Fast → ain:Low #VBW GHz GHz GHz GHz GHz	AC   D000 GH PN IFG 1 dB Bm 2 2 x 480 120 25 483 500 00	nalyzer - Swej F 50 2 2.48900 of Offset 7.0 ef 20.00 d 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t 2.47800 s BW 100	10 dE MSG Agilent X RL Cent 10 dE Cent 10 dE Cent 10.0 -

	01:52:52 PMDec 25, 2017	ALIGN AUTO	SENSE:PULSE		ectrum Analyzer - Swi RF 50 Ω	Agilent Sp X/ RL
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1	2402_Hopping	NS_Π/4-DQPSK_ ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	AC   0000 GHz PN0: Fast ← IFGain:Low	RF 50 Ω RF 50 Ω r Freq 2.35700 Ref Offset 7.0	11 Agilent Sp Agilent Sp XI RL Cente
Frequency Auto Tune	2402_Hopping 11:59:22 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET IP P P P P P 2.388 232 GHz	NS_Π/4-DQPSK_ ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	AC   0000 GHz PN0: Fast ← IFGain:Low	RF 50 Ω RF 50 Ω r Freq 2.35700 Ref Offset 7.0	11 Agilent Sp XI RL Cente
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Frequency Auto Tune Center Frec 2.357000000 GH2 Start Frec 2.310000000 GH2 Stop Frec 2.404000000 GH2 Stop Frec 2.40400000 GH2 9.400000 MH2 Auto Mar Freq Offset	2402_Hopping	ns_π/4-DQPSK_ ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10 Mkr4	SENSE:PULSE	pt SA         Odd CHz           AC         PN0: Fast - IFGain:Low           PN0: Fast - IFGain:Low         PN0: Fast - IFGain:Low           11 dB         IBM           IBM         IBM           IBM <td>Ref Offset 7.0 Ref Offset 7.0 Ref 2.35700 Ref 20.000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.0000</td> <td>11 Asg Agilent Sp M RL Center 10.0 dB/d 0.00 -10.0 -20.0 -30.0 -40.0 -30.0 -40.0 -30.0 -40.0 -50.0 -70.0 Start 2 #Res E MKR MOD 1 N 3 N 4 N 5 6 7</td>	Ref Offset 7.0 Ref Offset 7.0 Ref 2.35700 Ref 20.000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.00000 Ref 20.0000 Ref 20.0000 Ref 20.0000	11 Asg Agilent Sp M RL Center 10.0 dB/d 0.00 -10.0 -20.0 -30.0 -40.0 -30.0 -40.0 -30.0 -40.0 -50.0 -70.0 Start 2 #Res E MKR MOD 1 N 3 N 4 N 5 6 7
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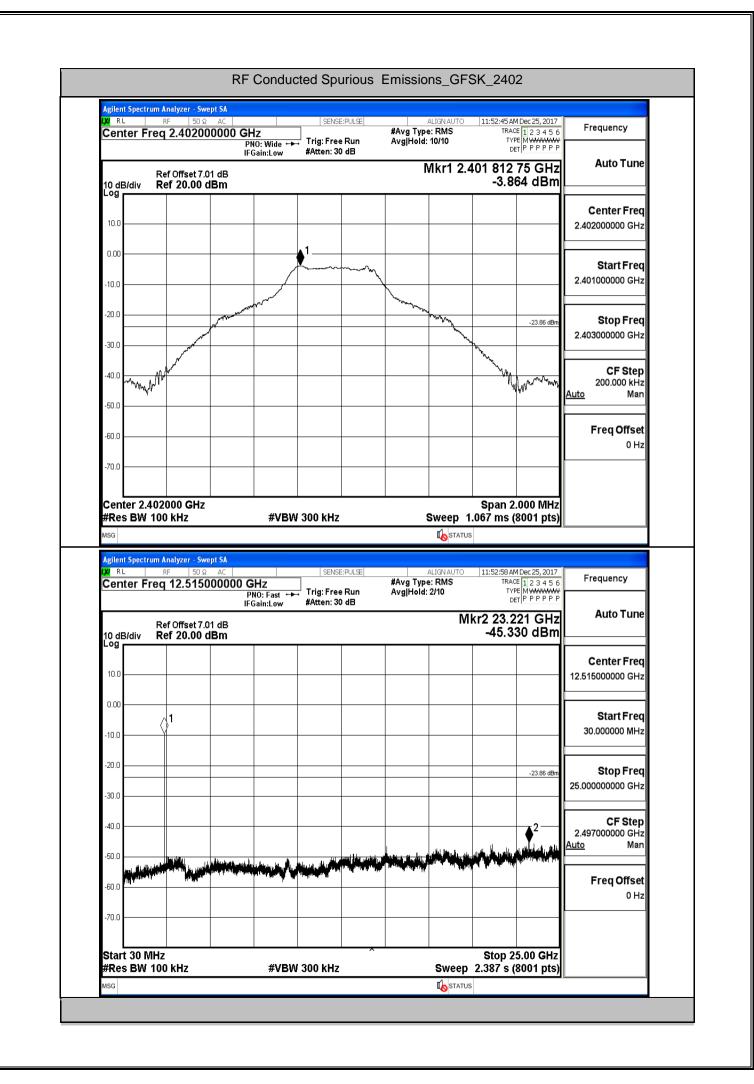
Center Pred 2.483300000 GHZ         The Free Run         Auto Tun           Pred offset 7.01 dB         Mkr4 2.493 445 0 GHZ         Auto Tun           10 dBdtw         Ref offset 7.01 dB         Auto Tun           200         Auto Tun         Specific Grant         Specific Grant           200         Auto Tun         Specific Grant         Specific Grant         Start Free           200         Auto Tun         Specific Grant         Start Free         2.45350000 GH           200         Auto Tun         Specific Grant         Specific Grant         Start Free           200         Auto Tun         Specific Grant         Start Free         2.45350000 GH           200         Auto Tun         Specific Grant         Start Free         2.45350000 GH           21         X Auto Tun         Specific Grant         Start Free         2.45350000 GH           21         X Auto Tun         Start Free         Start Free         2.4535000 GHZ           21         X Auto Tun         Start Free         Start Free         Start Free           21         X Auto Tun         Start Free         Start Free         Start Free           21         X Auto Tun         Start Free         Start Free         Start Free	Frequency	01:54:52 PMDec 25, 2017	ALIGN AUTO	SENSE:PULSE		alyzer - Swept SA 50 Ω AC	RL
Ref Offset 7 01 dB         Mkr4 2.493 445 0 GHz         Auto Tun           10 ddd/w         49.927 dBm         49.927 dBm         Center Fre           10 ddd/w         1	Trequency	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P			PNO: Fast +	2.48350000	nter Fre
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Control         Stop Free           Content         Stop Free           Stop Free         Stop Free <t< td=""><td>2.453500000 GH</td><td></td><td>4</td><td></td><td></td><td></td><td></td></t<>	2.453500000 GH		4				
0         2         5         5         5         5         6         0	Stop Eror	والالد حادث والمالية والمتارية والمتحد والمرجع والمرجع	<b>V</b> I (7)	1 1 (1)			0
Center 2.433.50 GHz         Span 60.00 MHz         Span 60.00 MHz         CF Step 5.857 ms (8001 pts)           MRT MODE TRC SCL         #VBW 300 KHZ         Sweep 5.857 ms (8001 pts)         Auto Tum           1         1         2.493.500 GHz         \$2498 GHz         FUNCTION         FUNCTION VALUE         Auto Tum           3         N         f         2.493.300 GHz         \$2498 GHz         FUNCTION         FUNCTION VALUE							
#Res BW 100 kHz       #VBW 300 kHz       Sweep 5.867 ms (8001 pts)       6.00000 kHz         MSR MODE TRC SQL       # 2 438 5017 6 Hz       \$ 357 d GHz       Function       Function with the functio							
Minimulation         Assure file         Assure file         Assure file	CF Step 6.000000 MHz		Sweep 5.	V 300 kHz	#VBV		
2         N         f         2433 500 0 GHz         53.006 GHz         53.006 GHz         53.006 GHz         53.006 GHz         53.006 GHz         49.927 GBm         Freq Offse         0 Hz           4         N         f         2.493 446 0 GHz         49.927 dBm         Freq Offse         0 Hz           7         Image: State of the st	<u>Auto</u> Mar	FUNCTION VALUE	FUNCTION WIDTH				
4         N         f         2.49334450.GHz         49.9272.dBm         0 <td>Erea Offse</td> <td></td> <td></td> <td>-52 498 dBm</td> <td>600 0 GHz</td> <td>2.48</td> <td>Ň</td>	Erea Offse			-52 498 dBm	600 0 GHz	2.48	Ň
6       7       9       10	0 Hz	=		-49.927 dBm	45 0 GHz	2.49	N
Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addent Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off  Addont Spectrum Analyzer - Swept SA Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480_Hopping Off Band-edge for RF Conducted Emissions_tr/4-DQPSK_2480							
Image: Start							
International state           Missions_π/4-DQPSK_2480_Hopping Off           Aglent Spectrum Analyzer - Swept SA Mission Analyzer - Swept SA Mi							
Band-edge for RF Conducted Emissions_π/4-DQPSK_2480_Hopping Off           Aglent Spectrum Analyzer - Swept SA Mit RL         Mit Ref Store AC         Sense PUGE         ALIGNAUTO         G1:3:3:1:2PMDec 25,2017           Frequency         Frequency           Mit Ref Offset 7.01 dB         Mitra 2.4930.0000 GHz         Frequency           Center Freq 2.48900000 GHz         Frequency         Auto Tune           Offset 7.01 dB         Mitra 2.4933 347 75 GHz         Center Freq           O dB/div         Ref Offset 7.01 dB         Mitra 2.49300000 GHz           0 data		×					
Aglent Spectrum Analyzer - Swept SA Will Ref 20.00 AC         ISENSERULSE         ALIGNAUTO         D136:12 PMDe: 25, 2017         Frequency           Center Freq 2.489000000 GHz PH0: East		>	<b>I</b> status	III			
MR.         PR         SO AC         SENSE PLUSE         ALIONO         Diselise Produces         Frequency           Center Freq 2.48900000 GHz         PN0: Fast ++ IFGaint.ow         Trig: Free Run #Atten: 30 dB         Mkr4 2.493 347 75 GHz         Frequency         Auto Tune           0 dB/div         Ref Offset 7.01 dB         Mkr4 2.493 347 75 GHz         Generation         Auto Tune           10 dB/div         Ref Offset 7.01 dB         Mkr4 2.493 347 75 GHz         Generation         Center Freq 2.48900000 GHz         Auto Tune           10 dB/div         Ref Offset 7.01 dB         Generation         Gene	Off		-	ucted Emissio	RE Cond	od-edge fo	B
Center Pred 2.483000000 GHz         Trig: Free Run #Atten: 30 dB         Arg Hyloid: 10/10 Mrg Hyloid: 10/10         Trig: Free Run Berl P P P P P D = P P P P P P D = P P P P P P D = P P P P P P P D = P P P P P P P P D = P P P P P P P P P D = P P P P P P P P P P D = P P P P P P P P P P P P P P P P P P	Off		-	ucted Emissio	RF Cond	-	
Ref Offset 7.01 dB         Mkr4 2.493 347 75 GHz           10 dB/div         Ref 20.00 dBm         -51.006 dBm           10.0         -51.006 dBm         -51.006 dBm           200         -23.52 dBm         -23.52 dBm           300         -24.7800000 GHz         -24.7800000 GHz           -300         -24.7800 GHz         -24.7800000 GHz           -300         -24.7800 GHz         -25.50000 GHz           -300         -24.7800 GHz         -25.0000 GHz           -300         -24.7800 GHz         -25.0000 GHz           -300         -24.7800 GHz         -24.7800 GHz           -300         -24.780 GHz         -24.7800 GHz           -300         -24.7800 GHz         -24.7800 GHz           -300         -24.780 GHz         -24.780 GHz           -300         -24.780 GHz         -24.780 GHz           -300         -24.780 GHz         -24.780 GHz           -300         -10         -10           -300         -10         -10           -300         -10         -10           -300         -10         -10           -300         -10         -10           -200         -24.780 GHz         -25.663 dBm           -	[	2480_Hopping	π/4-DQPSK_			<mark>alyzer - Swept SA</mark> 50 Ω AC	e <mark>nt Spectrum</mark> R L
10 dB/div       Ref 20.00 dBm       -51.006 dBm         10 dB/div       Ref 20.00 dBm       -2352 dBm         20 dB/div       -2352 dBm       -2352 dBm         30 dB/div       -2352 dBm       -2352 dBm         30 dB/div       -2352 dBm       -2352 dBm         40 dD       -2352 dBm       -2352 dBm         40 dD       -2352 dBm       -2352 dBm         40 dD       -2352 dBm       -2352 dBm         50 dD       -2478 00 GHz       -2352 dBm         51 d GB/div       -2478 00 GHz       -2478 00 GHz         #Res BW 100 kHz       #VBW 300 kHz       Sweep 2.133 ms (8001 pts)         MKR MODE TRC SCL	[	2480_Hopping	TT/4-DQPSK_ ALIGNAUTO Avg Type: RMS	SENSE:PULSE	GHz PNO: Fast ↔	<mark>alyzer - Swept SA</mark> 50 Ω AC	e <mark>nt Spectrum</mark> R L
IDD         Center Free           000	Frequency	2480_Hopping	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	ent Spectrum RL   nter Free
10.0	Frequency	2480_Hopping 01:36:12 PMDec 25,2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	ent Spectrum RL nter Free dB/div F
-20.0       -23.52 dBm         -30.0       -23.52 dBm         -40.0       -23.52 dBm         -40.0       -44         -50.0       -44         -50.0       -44         -50.0       -44         -50.0       -44         -50.0       -50.0         -50.0       -50.0         -50.0       -50.0         -50.0       -50.0         -50.0       -50.0         -50.0       -50.0         -70.0       -50.0         Start 2.47800 GHz       -50.000 GHz         #Res BW 100 kHz       #VBW 300 kHz       Sweep 2.133 ms (8001 pts)         MKR MODE TRC SCL       ×       Y         1       N       f       2.493 347 75 GHz       -52.663 dBm         3       N       f       2.493 347 75 GHz       -51.006 dBm       -51.006 dBm         3       N       f       2.493 347 75 GHz       -51.006 dBm       -51.006 dBm       -51.006 dBm         9       -51.006 dBm       -51.006 dBm       -51.006 dBm       -51.006 dBm       -51.006 dBm         9       -51.006 dBm       -51.006 dBm       -51.006 dBm       -51.006 dBm       -51.006 dBm         9<	Frequency Auto Tune	2480_Hopping 01:36:12 PMDec 25,2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	nt Spectrum RL   nter Free dB/div F
30.0       40.0       4       30.0       4       30.0         40.0       4       30.0       4       30.0       4       30.0         50.0       4       30.0       4       30.0       50.0       60.0       60.0       70.0       50.0       50.0       50.0       60.0 <t< td=""><td>Frequency Auto Tune Center Free</td><td>2480_Hopping 01:36:12 PMDec 25,2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz</td><td>π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10</td><td>SENSE:PULSE</td><td>GHz PNO: Fast ↔</td><td>alyzer - Swept SA 50 Ω AC 2.48900000</td><td>ent Spectrum RL Inter Free dB/div F</td></t<>	Frequency Auto Tune Center Free	2480_Hopping 01:36:12 PMDec 25,2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	ent Spectrum RL Inter Free dB/div F
40.0       4       3         60.0       4       3         60.0       60.0       5         70.0       5       5 <td>Frequency Auto Tune Center Free</td> <td>2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz -51.006 dBm</td> <td>π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10</td> <td>SENSE:PULSE</td> <td>GHz PNO: Fast ↔</td> <td>alyzer - Swept SA 50 Ω AC 2.48900000</td> <td>ent Spectrum RL   nter Free dB/div F a a a b b c b c c c c c c c c c c c c c</td>	Frequency Auto Tune Center Free	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz -51.006 dBm	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	ent Spectrum RL   nter Free dB/div F a a a b b c b c c c c c c c c c c c c c
60.0	Frequency Auto Tune Center Free 2.48900000 GH Start Free	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWW DET P P P P P 93 347 75 GHz -51.006 dBm	π/4-DQPSK_ ALIGNAUTO Avg Type: RMS vg Hold: 10/10	SENSE:PULSE	GHz PNO: Fast ↔	alyzer - Swept SA 50 Ω AC 2.48900000	ent Spectrum RL   nter Free dB/div F a a a b b c c c c c c c c c c c c c
-70.0       -70.0 <td< td=""><td>[</td><td>2480_Hopping 01:36:12 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P 93 347 75 GHz -51.006 dBm -2352 dBm -2352 dBm</td><td>m/4-DQPSK_</td><td>SENSE:PULSE</td><td>GHz PNO: Fast ↔ IFGain:Low</td><td>alyzer - Swept SA 50 Ω AC 2.48900000 f Offset 7.01 dB f 20.00 dBm</td><td>ant Spectrum RL   nter Free dB/div F a a a b b c c c c c c c c c c c c c</td></td<>	[	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P 93 347 75 GHz -51.006 dBm -2352 dBm -2352 dBm	m/4-DQPSK_	SENSE:PULSE	GHz PNO: Fast ↔ IFGain:Low	alyzer - Swept SA 50 Ω AC 2.48900000 f Offset 7.01 dB f 20.00 dBm	ant Spectrum RL   nter Free dB/div F a a a b b c c c c c c c c c c c c c
Start 2.47800 GHz         Stop 2.50000 GHz           #Res BW 100 kHz         #VBW 300 kHz         Sweep 2.133 ms (8001 pts)           MKR MODE TRC ScL         Y         FUNCTION         FUNCTION width         FUNCTION value           1         N         f         2.479 817 75 GHz         3.516 dBm         2.200000 MHz           2         N         f         2.479 817 75 GHz         3.516 dBm         5         6           3         N         f         2.400 00 GHz         -52.663 dBm         6	Frequency Auto Tune Center Frec 2.48900000 GH: Start Frec 2.478000000 GH:	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWWW DET  P P P P P 93 347 75 GHz -51.006 dBm -23:52 dBm 3,	m/4-DQPSK_	SENSE:PULSE	GHz PNO: Fast ++ IFGain:Low 2	Alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm	ent Spectrum RL   nter Free dB/div F 0 0 0 0 0 0 0 0 0 0 0 0 0
#Res BW 100 kHz         #VBW 300 kHz         Sweep 2.133 ms (8001 pts)         2.200000 MHz           MKR MODE TRC SCL         X         Y         FUNCTION         FUNCTION WIDTH         FUNCTION VALUE         Auto         Mar           1         N         f         2.479 817 75 GHz         -3.516 dBm         - <td>Frequency Auto Tune Center Free 2.48900000 GH: Start Free 2.47800000 GH: Stop Free</td> <td>2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWWW DET  P P P P P 93 347 75 GHz -51.006 dBm -23:52 dBm 3,</td> <td>m/4-DQPSK_</td> <td>SENSE:PULSE</td> <td>GHz PNO: Fast ++ IFGain:Low 2</td> <td>Alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm</td> <td>ant Spectrum RL   nter Free dB/div F dB/div F dB/div F dB/div F dB/div F</td>	Frequency Auto Tune Center Free 2.48900000 GH: Start Free 2.47800000 GH: Stop Free	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE [1 2 3 4 5 6 TYPE MWWWWW DET  P P P P P 93 347 75 GHz -51.006 dBm -23:52 dBm 3,	m/4-DQPSK_	SENSE:PULSE	GHz PNO: Fast ++ IFGain:Low 2	Alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm	ant Spectrum RL   nter Free dB/div F dB/div F dB/div F dB/div F dB/div F
MKR         MODE         TEC         SCL         X         Y         FUNCTION         FUNCTION WIDTH         FUNCTION VALUE         Auto         Mar           1         N         f         2.479         817.75         GHz         3.516         dBm         -<	Frequency Auto Tune Center Free 2.48900000 GH: Start Free 2.47800000 GH: Stop Free	2480_Hopping 01:36:12 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P 93 347 75 GHz -51.006 dBm -2352 dBm -2352 dBm -2352 dBm	ALIGNAUTO Avg Type: RMS vg Hold: 10/10  Mkr4 2.4  4 4 4	SENSE:PULSE	GHz PNO: Fast ++ IFGain:Low 2	alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm	ant Spectrum RL   nter Free dB/div F dB/div F dB/div F dB/div F dB/div F dB/div F dB/div F dB/div F dB/div F dB/div F
2       N       f       2.483 500 00 GHz       -52.663 dBm         3       N       f       2.500 000 00 GHz       -52.683 dBm       Freq Offset         4       N       f       2.493 347 75 GHz       -51.006 dBm       0 H         5       -       -       -       -       0 H         6       -       -       -       -       0 H         7       -       -       -       -       0 H         9       -       -       -       -       -       0 H         10       -       -       -       -       -       -       0 H	Frequency Auto Tune Center Free 2.489000000 GH Start Free 2.478000000 GH Stop Free 2.500000000 GH	2480_Hopping	ALIGNAUTO Avg Type: RMS vgHold: 10/10 Mkr4 2.4	SENSE:PULSE	GHz PNO: Fast ↔ IFGain:Low	alyzer - Swept SA 50 Q AC 2.48900000 F Offset 7.01 dB f 20.00 dBm	ant Spectrum RL   nter Free dB/div F dB/div F dB/di
4         N         f         2.493 347 75 GHz         -51.006 dBm         0 H:           5         -         -         -         -         -         -         0 H:           6         -         -         -         -         -         -         -         -         0 H:           7         -	Frequency           Auto Tune           Center Freq           2.48900000 GH:           Start Freq           2.47800000 GH:           Stop Freq           2.50000000 GH:           CF Step           2.200000 MH:	2480_Hopping	m/4-DQPSK_	SENSE:PULSE	GHz PNO: Fast ++ IFGain:Low 2 2 2 4 WBV	alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm	ant Spectrum RL   nter Free dB/div F dB/div F dB/di
5     6 <td>Frequency           Auto Tune           Center Frequency           2.489000000 GH:           2.489000000 GH:           Start Frequency           2.478000000 GH:           2.478000000 GH:           2.500000000 GH:           CF Step           2.200000 MH:           Auto</td> <td>2480_Hopping</td> <td>m/4-DQPSK_</td> <td>SENSE:PULSE Trig: Free Run #Atten: 30 dB</td> <td>GHz PNO: Fast ↔ IFGain:Low 2 2 #VBV 775 GHz</td> <td>alyzer - Swept SA 50 Q AC 2.48900000 F Offset 7.01 dB f 20.00 dBm</td> <td>ent Spectrum RL   nter Free dB/div F dB/div F d</td>	Frequency           Auto Tune           Center Frequency           2.489000000 GH:           2.489000000 GH:           Start Frequency           2.478000000 GH:           2.478000000 GH:           2.500000000 GH:           CF Step           2.200000 MH:           Auto	2480_Hopping	m/4-DQPSK_	SENSE:PULSE Trig: Free Run #Atten: 30 dB	GHz PNO: Fast ↔ IFGain:Low 2 2 #VBV 775 GHz	alyzer - Swept SA 50 Q AC 2.48900000 F Offset 7.01 dB f 20.00 dBm	ent Spectrum RL   nter Free dB/div F dB/div F d
	Frequency Auto Tune Center Free 2.489000000 GH: Start Free 2.478000000 GH: Stop Free 2.500000000 GH: CF Step 2.200000 MH: Auto Mar	2480_Hopping	m/4-DQPSK_	SENSE:PULSE → Trig: Free Run #Atten: 30 dB	GHz PNO: Fast	alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm GHz kHz - 2.479 2.483 2.500	ent Spectrum RL   nter Free dB/div F dB/div F dB/di
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	Frequency           Auto Tune           Center Frequency           2.48900000 GH;           Start Frequency           Start Frequency           Stop Frequency           2.50000000 GH;           2.50000000 GH;           CF Step           2.200000 MH;	2480_Hopping	m/4-DQPSK_	SENSE:PULSE → Trig: Free Run #Atten: 30 dB	GHz PNO: Fast	alyzer - Swept SA 50 Q AC 2.48900000 f Offset 7.01 dB f 20.00 dBm GHz kHz - 2.479 2.483 2.500	ent Spectrum RL   nter Free dB/div F dB/div F dB/di

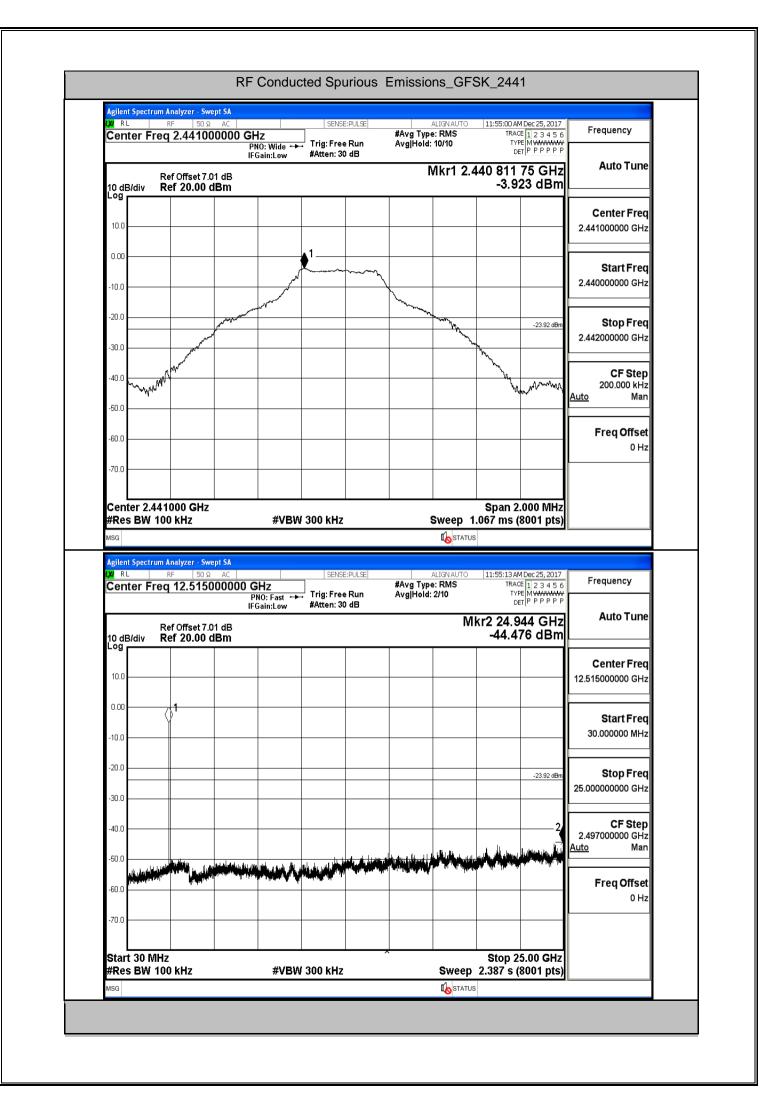
Frequency	01:59:14 PM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW	ALIGNAUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	c	m Analyzer - Swep RF 50 Ω eq 2.400000	KI RL
Auto Tuno	оет РРРРРР 381 692 5 GHz -50.982 dBm		#Atten: 30 dB	IFGain:Low	Ref Offset 7.01	
Center Fred					Ref 20.00 dl	10 dB/div Log 10.0
2.400000000 GHz	MARAMA ANA A	Wardy ward have here here and	hund			-10.0
Start Free	-23:76 dBm					-20.0
2.370000000 GHz			42	∧3	,	-30.0
Stop Freq					-	-50.0
2.430000000 GHz						-70.0
CF Step 6.000000 MHz	Span 60.00 MHz .867 ms (8001 pts)	Sweep 5.	W 300 kHz	#VB	0000 GHz	Center 2. #Res BW
Auto Man	FUNCTION VALUE	INCTION FUNCTION WIDTH	Y	X	SCL	MKR MODE T
Freq Offset			-3.756 dBm -52.045 dBm -52.820 dBm	127 817 5 GHz 100 000 0 GHz 190 000 0 GHz	f f	1 N 2 N 3 N
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ff		ions_8-DPSK_24	nducted Emis	e for RF Co	Band-ed	9 10 10 11 11 11 11 11 11 11 11 11 11 11
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ff Frequency	402_Hopping O	ions_8-DPSK_24	SENSE:PULSE	6A ©         	m Analyzer - Swep	9 10 11 ISG Agilent Spectr
Frequency	■     ■	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01	9 10 11 Asg
Frequency Auto Tune	01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWWW DET P P P P P 2.355 214 GHz	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     	m Analyzer - Swep RF 50Ω eq 2.357000	9 10 11 ISG Agilent Spectr
Frequency Auto Tune Center Freq	01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWWW DET P P P P P 2.355 214 GHz	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01	9 10 11 13 13 13 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz	402_Hopping O 01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWWW DET P P P P P 2.355 214 GHz	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01	9 10 11 Agilent Spectr X RL Center F 10 dB/div 10.0
Frequency Auto Tune Center Freq 2.35700000 GHz Start Freq	01:38:45 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 2.355 214 GHz -51.256 dBm	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01	9 10 11 11 11 11 11 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz	01:38:45 PMDec 25,2017 TRACE 1 2 3 4 5 6 TYPE MUMUM DET P P P P P P 2.355 214 GHz -51.256 dBm	ions_8-DPSK_24 ALIGN AUTO #Avg Type: RMS Avg Hold: 10/10	SENSE:PULSE	6A C     DOO GHz PNO: Fast ← IFGain:Low IB M IB M IB M IB IIF IIF IIF IIF IIF IIF IIF	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 di	9 10 11 11 13 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq	01:38:45 PMDec 25,2017 TRACE 1 2 3 4 5 6 TYPE MUMUM DET P P P P P P 2.355 214 GHz -51.256 dBm	ions_8-DPSK_24	SENSE:PULSE	6A C     DOO GHz PNO: Fast ← IFGain:Low IB M IB M IB M IB IIF IIF IIF IIF IIF IIF IIF	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 di	9 10 11 11 11 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz	402_Hopping O     1/38:45 PMDec 25, 2017     TRACE 1 2 3 4 5 6     TVPE MWWWW DET P P P P P P     2.355 214 GHz     -51.256 dBm	ions_8-DPSK_24	SENSE:PULSE	A C     DOO GHZ PNO: Fast + IFGain:Low IB M 	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 dl 	9 10 11 13 13 13 14 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz	01:38:45 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MUMUU DET P P P P P 2.355 214 GHz -51.256 dBm -2371 pen -33 2 2 diversion duration Stop 2.40400 GHz .067 ms (8001 pts)	ions_8-DPSK_24	SENSE:PULSE	A C     DOO GHZ PNO: Fast + IFGain:Low IB M 	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 dl 000 GHz 100 GHz	9 10 11 13 13 14 15 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz 2.310000000 GHz 2.404000000 GHz 9.400000 MHz Auto Man	01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MMMMMM DET P P P P P P 2.355 214 GHz -51.256 dBm -2377 pm -3 22 0 MMMMMM 404/m Stop 2.40400 GHz .067 ms (8001 pts)	ions_8-DPSK_24	SENSE:PULSE	6A C	m Analyzer - Swep RF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 dl 000 GHz 000 GHz 000 GHz 000 KHz f f	9 10 11 11 11 11 15G 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz 2.310000000 GHz 2.404000000 GHz 2.404000000 GHz 9.400000 MHz	01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MMMMMM DET P P P P P P 2.355 214 GHz -51.256 dBm -2377 pm -3 22 0 MMMMMM 404/m Stop 2.40400 GHz .067 ms (8001 pts)	ions_8-DPSK_24	SENSE:PULSE	6A C       100 GHz PN0: Fast - IFGain:Low IB M 	M Analyzer - Swep RF 50 2 eq 2.357000 Ref Offset 7.01 Ref 20.00 dl 	9 10 11 11 135G 10 10 10 10 10 10 10 10 10 10
Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz Auto Man	01:38:45 PMDec 25, 2017 TRACE 12 3 4 5 6 TYPE MMMMMM DET P P P P P P 2.355 214 GHz -51.256 dBm -2377 pm -3 22 0 MMMMMM 404/m Stop 2.40400 GHz .067 ms (8001 pts)	ions_8-DPSK_24	SENSE:PULSE → Trig: Free Run #Atten: 30 dB	6A C       100 GHz PN0: Fast + IFGain:Low IB m 	m Analyzer - Swep ℝF 50 Ω eq 2.357000 Ref Offset 7.01 Ref 20.00 dl 0 0 dl 0 0 dl 0 0 dl 0 0 dl 0 0 dl 0 0 dl 1 0 d	9 10 11 11 13 10 11 10 10 10 10 10 10 10 10

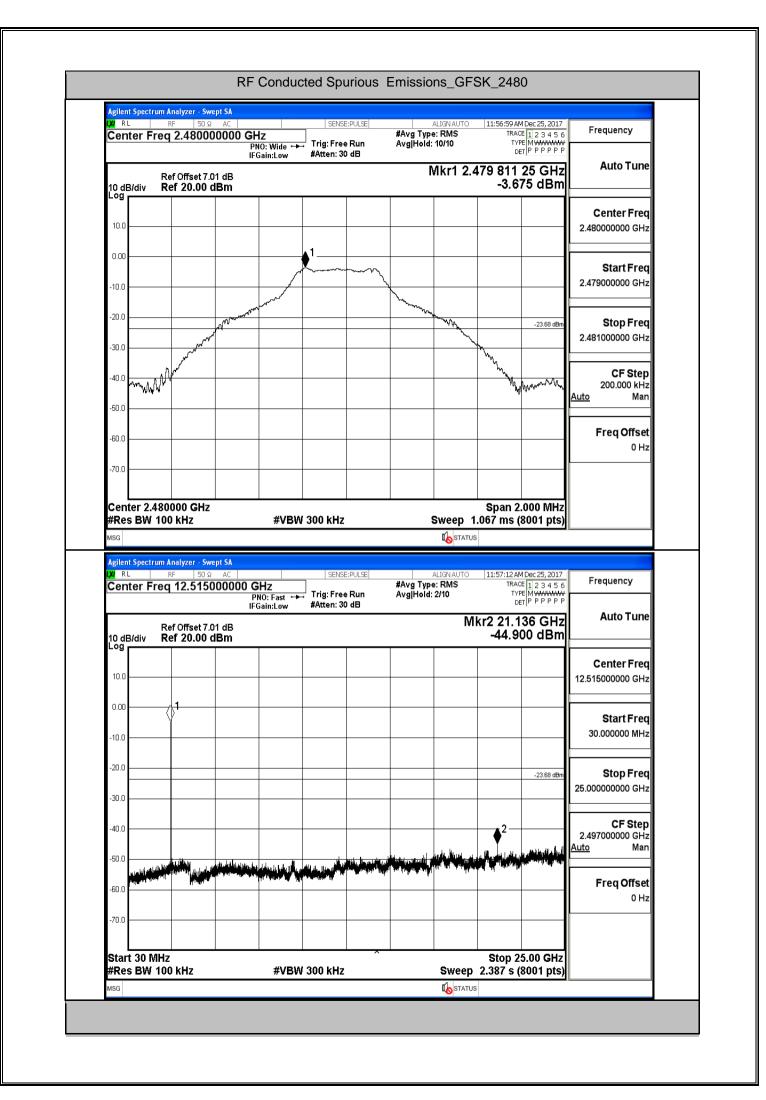


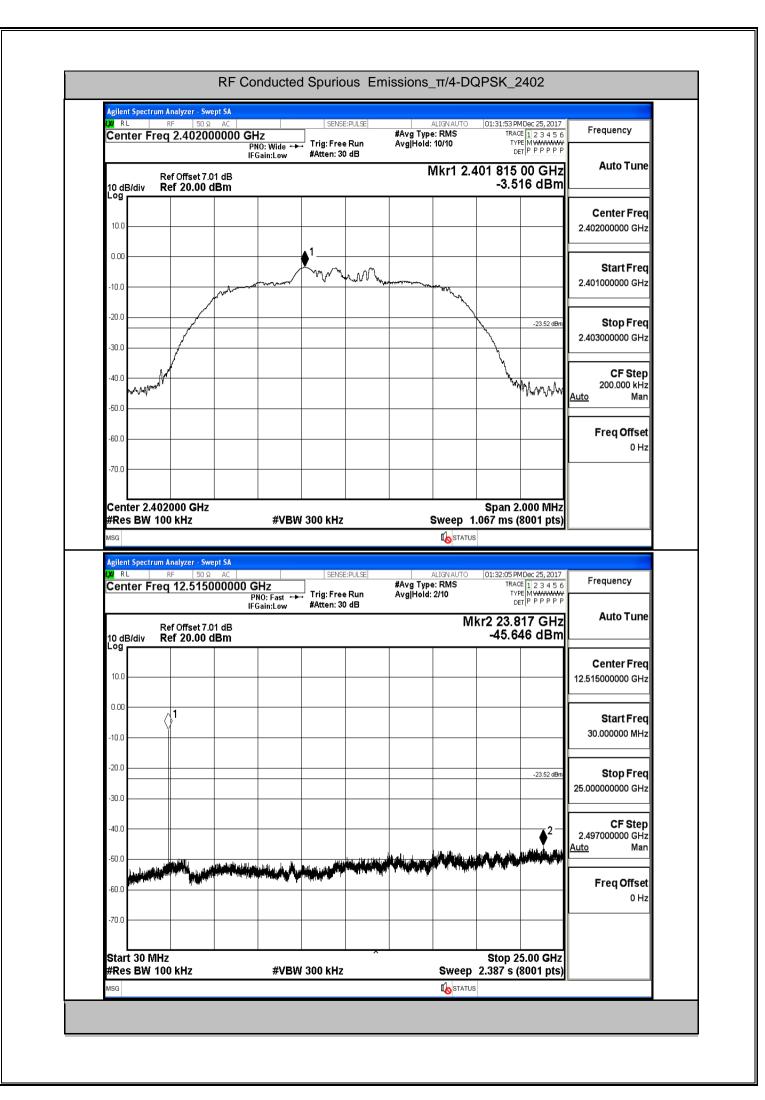
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	2402	30	25000	100	300	-3.864	-45.330	<- 23.864	PASS
	2441	30	25000	100	300	-3.923	-44.476	<- 23.923	PASS
	2480	30	25000	100	300	-3.675	-44.900	<- 23.675	PASS
π/4- DQPSK	2402	30	25000	100	300	-3.516	-45.646	<- 23.516	PASS
	2441	30	25000	100	300	-3.932	-45.690	<- 23.932	PASS
	2480	30	25000	100	300	-3.579	-35.939	<- 23.579	PASS
8-DPSK	2402	30	25000	100	300	-3.85	-45.215	<-23.85	PASS
	2441	30	25000	100	300	-3.815	-45.572	<- 23.815	PASS
	2480	30	25000	100	300	-3.443	-45.439	<- 23.443	PASS

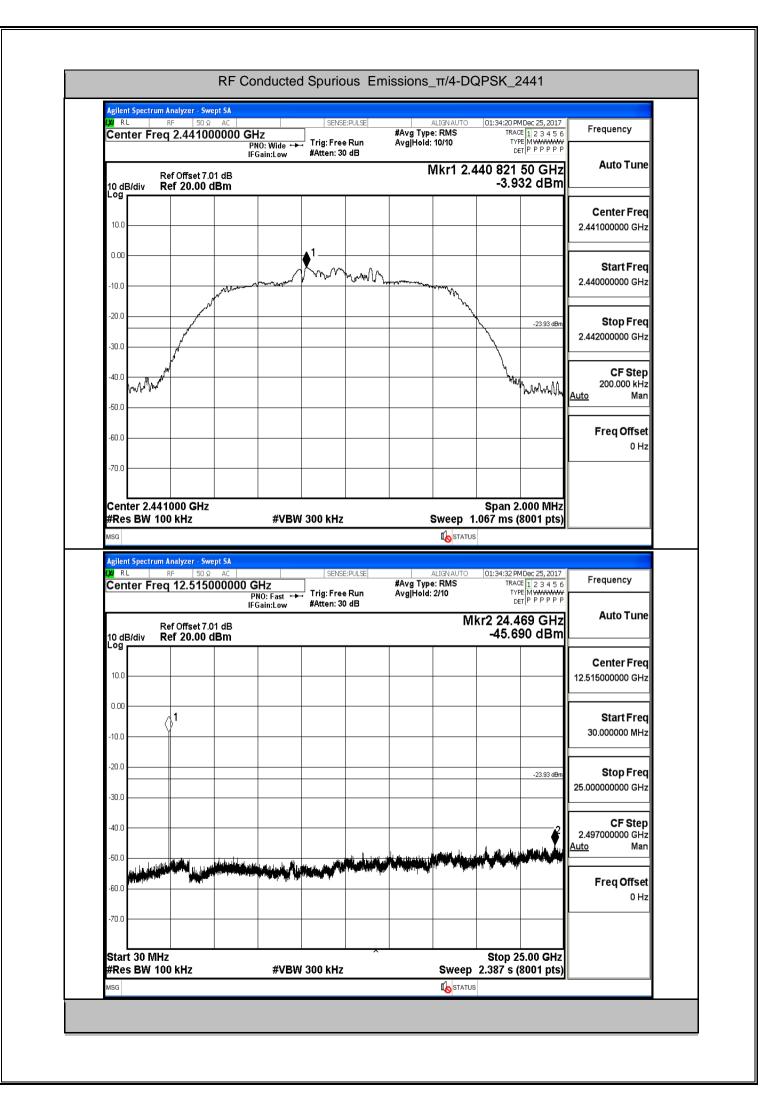
### A.7 RF Conducted Spurious Emissions

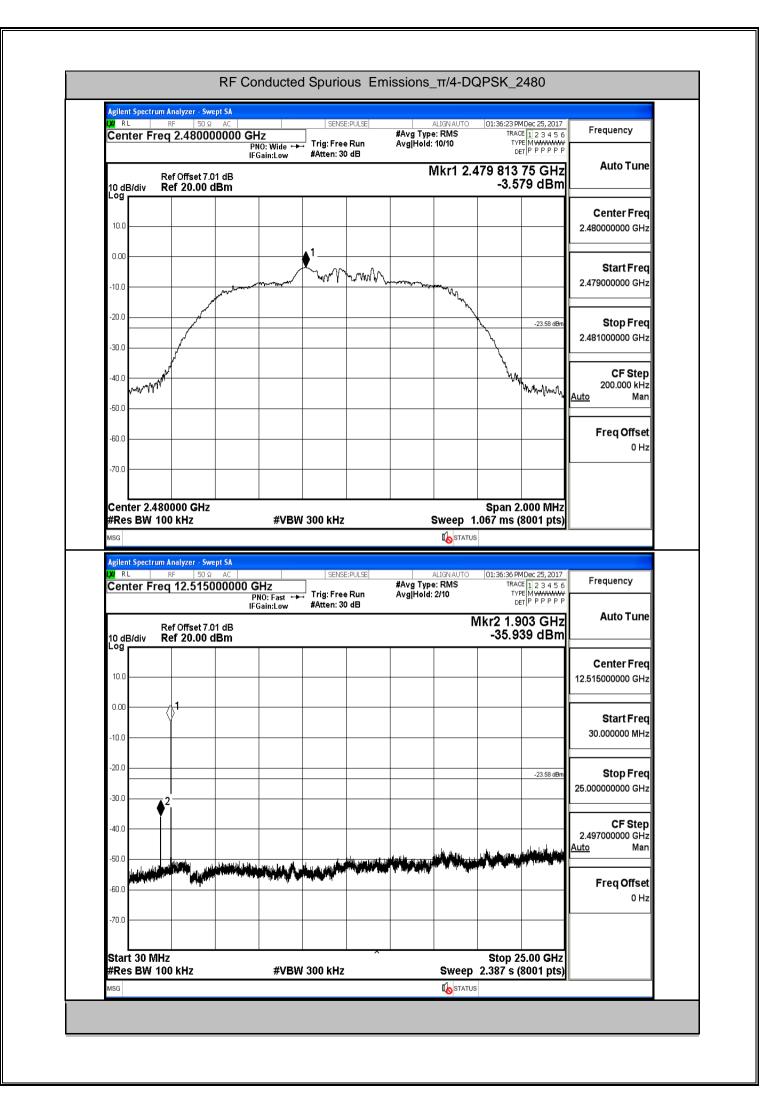


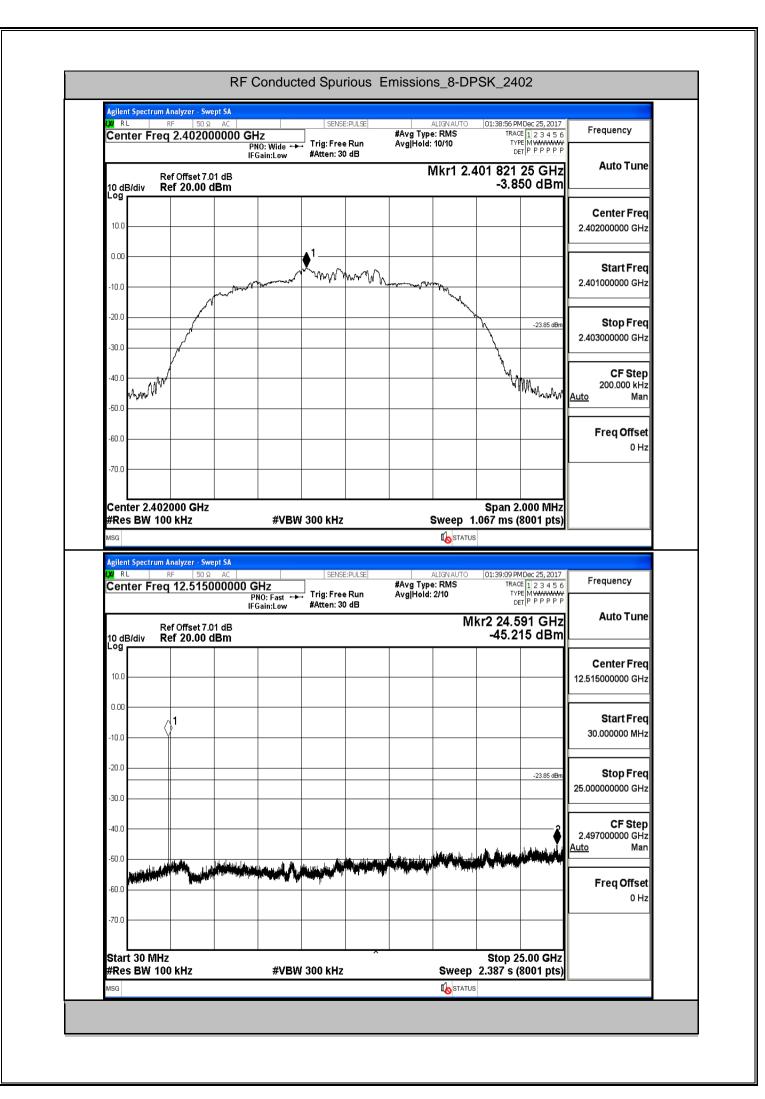


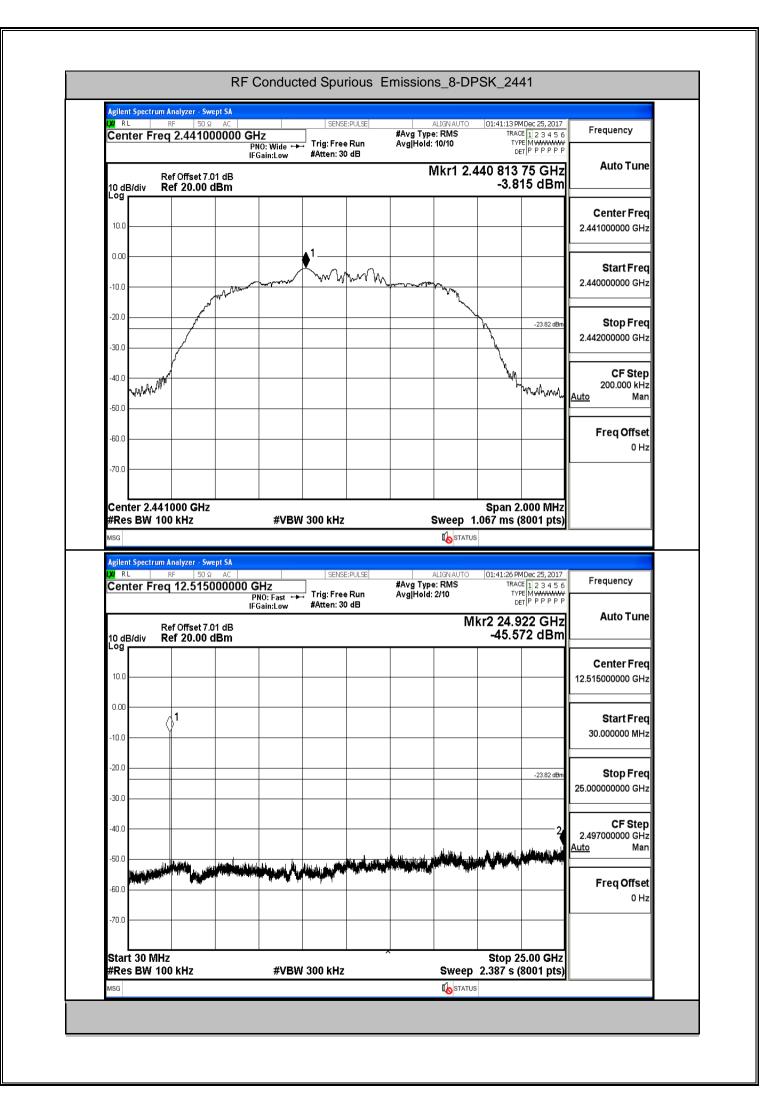


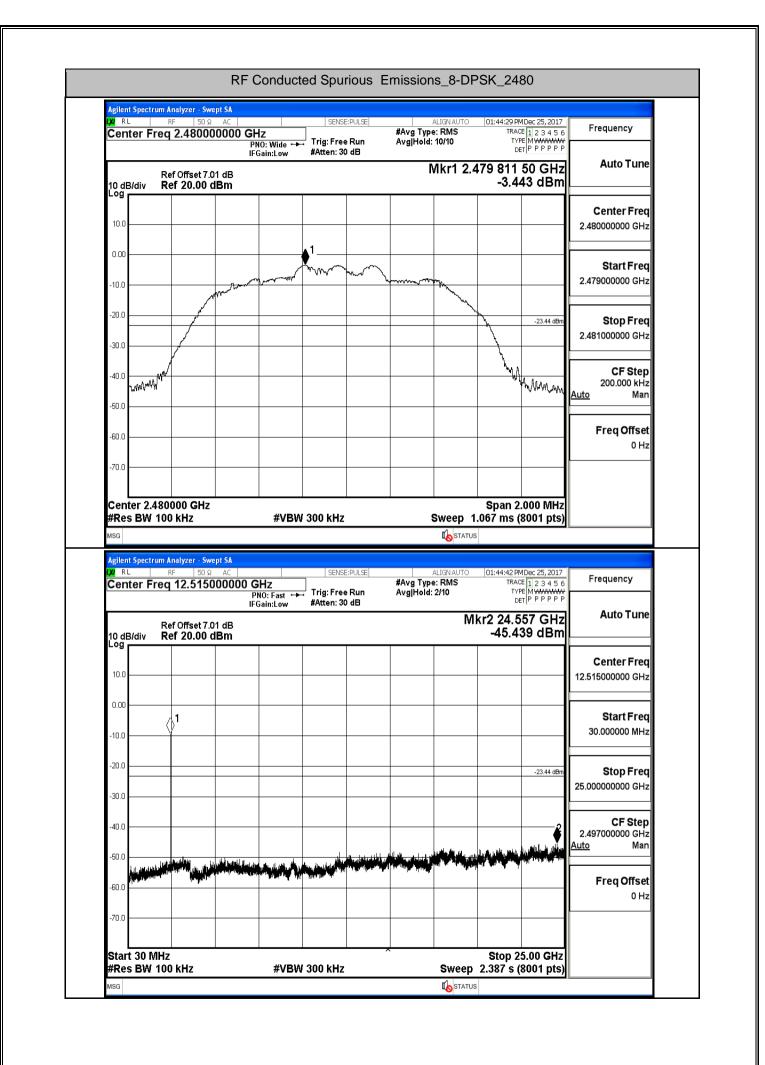












## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.06	0	0	53.20	PEAK	74	PASS
	Off	2310.0	-55.07	0	0	42.19	AV	54	PASS
	Off	2390.0	-44.78	0	0	52.48	PEAK	74	PASS
GFSK	Off	2390.0	-54.98	0	0	42.28	AV	54	PASS
Gran	Off	2483.5	-44.74	0	0	52.52	PEAK	74	PASS
	Off	2483.5	-54.69	0	0	42.57	AV	54	PASS
	Off	2500.0	-44.52	0	0	52.74	PEAK	74	PASS
	Off	2500.0	-54.59	0	0	42.67	AV	54	PASS
	Off	2310.0	-44.20	0	0	53.06	PEAK	74	PASS
	Off	2310.0	-55.06	0	0	42.20	AV	54	PASS
	Off	2390.0	-44.14	0	0	53.11	PEAK	74	PASS
π/4-	Off	2390.0	-54.90	0	0	42.35	AV	54	PASS
DQPSK	Off	2483.5	-43.90	0	0	53.36	PEAK	74	PASS
	Off	2483.5	-54.66	0	0	42.60	AV	54	PASS
	Off	2500.0	-44.93	0	0	52.33	PEAK	74	PASS
	Off	2500.0	-54.57	0	0	42.69	AV	54	PASS
	Off	2310.0	-45.03	0	0	52.23	PEAK	74	PASS
	Off	2310.0	-55.08	0	0	42.18	AV	54	PASS
	Off	2390.0	-45.11	0	0	52.15	PEAK	74	PASS
8-DPSK	Off	2390.0	-54.92	0	0	42.34	AV	54	PASS
0-DFSK	Off	2483.5	-44.16	0	0	53.10	PEAK	74	PASS
	Off	2483.5	-54.67	0	0	42.59	AV	54	PASS
	Off	2500.0	-43.26	0	0	54.00	PEAK	74	PASS
	Off	2500.0	-54.57	0	0	42.69	AV	54	PASS

LXI RL	trum Analyzer - Swep RF 50 Ω Freq 2.352000	AC 000 GHz	SENSE:PULSE	Avg Type:	Log-Pwr	3:15 AM Dec 25, 2017 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 7.01 Ref 20.00 dE		➡ Trig: Free Run #Atten: 30 dB	Avg Hold: 1	Mkr3 2.39	туре Det P P P P P P 90 000 GHz 4.782 dBm	Auto Tun
							Center Fre 2.352000000 GH
-10.0 -20.0 -30.0	2						Start Fre 2.300000000 G⊦
-40.0 -50.0		يور يەرىپىلىرىكى ئەرىپىلىرىيە يەرىپىلىرىكى ئەھلىرىيە يەرىپىلىرىكى ئەھلىرىيە يەرىپىلىرىكى ئەھلىرىيە يەرىپىلىرىكى ئىرىكى ئەرىپىلىرىكى ئەرىپىلىرىكى ئەرىپىلىرىكى ئەھلىرىكى ئەھلىرىكى ئەرىپىلىرىكى ئەھلىرىكى ئەھلىرىكى ئەھلىرىكى ئە	2764.4247-12427-12427-1246-1-4-12-12-12-12-12-12-12-12-12-12-12-12-12-	มาไรกรุงมะที่ <b>ระสมไ</b> รเล่าสีว่าสีว่าสีว่าสีว่าสีว่า	hertuisseeniteristaatus ku	3	Stop Fre
	00000 GHz V 1.0 MHz	#\/B	W 3.0 MHz			2.40400 GHz ms (8001 pts)	2.404000000 GH
MKR MODE	TRC SCL	× 2.401 855 GHz	۲ -3.722 dBm		•		10.400000 MH <u>Auto</u> Ma
2 N 3 N 4 5	f f	2.310 000 GHz 2.390 000 GHz	-44.062 dBm -44.782 dBm				Freq Offse 0 H
6 7 8 9 10							
11 MSG			III			×	
	Restrict-ba	nd band-edg	e measureme	ents_Hoppi	ng Off_ GF	SK_Avera	ge
LXI RL		AC	SENSE:PULSE			3:27 AM Dec 25, 2017	Frequency
Center	req 2.352000	000 GHz PNO: Fast ← IFGain:Low	► Trig: Free Run #Atten: 30 dB	Avg Type:   Avg Hold: 1		TRACE 123456 TYPE MWWWWW DET PPPPP	Trequency
10 dB/div	Ref Offset 7.01 <b>Ref 20.00 dE</b>					90 000 GHz 4.982 dBm	Auto Tuno
10.00							<b>Center Fre</b> 2.352000000 GH
-10.0						Å	Start Free
-40.0	2					♦3	2.300000000 GH
							2.404000000 GH
-60.0					Oton	2.40400 GHz	CE Oto
-70.0 Start 2.3 #Res BV	0000 GH2 1.0 MHz		W 10 Hz		Sweep 8.10	9 s (8001 pts)	CF Step 10.400000 MH <u>Auto</u> Mar
-70.0		#VB 2.401 998 GHz 2.310 000 GHz 2.390 000 GHz			Sweep 8.10		10.400000 MH

Agilent Spectrum Analyzer - 5 VI RL RF 50 Center Freq 2.489	DQ AC	SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	11:57:30 AM Dec 25, 2017 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 10/10	TYPE MWWWWW DET PPPPP	
Ref Offset			Mkr3 2.5	00 000 00 GHz -44.520 dBm	Auto Tu
10 dB/div Ref 20.00				-44.020 dBill	
					Center Fr 2.489000000 G
-10.0					
-20.0					Start Fr
-30.0	<u>\</u> 2			3	2.478000000 G
-50.0	Management and the second s	i na	n inter liger States i føl niget skiller i som en states i som en states er states er som er som er som er som	والمتعادية والمراجع والمتعالية والمتعالية والمتعالية والمتعالية	
-60.0					Stop Fr 2.50000000 G
-70.0					
Start 2.47800 GHz #Res BW 1.0 MHz	#VE	3W 3.0 MHz		Stop 2.50000 GHz 067 ms (8001 pts)	CF Ste 2.200000 M
MKR MODE TRC SCL	X	Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M
1 N f 2 N f	2.479 812 25 GHz 2.483 500 00 GHz	-3.520 dBm -44.739 dBm			Freq Offs
3 N f 4 5	2.500 000 00 GHz	-44.520 dBm			
6					
8					
10				×	
MSG				>	
			<b>I</b> STATUS		
Restrict-	-band band-edd	ge measureme		GFSK Averac	le
		ge measureme	to status	_GFSK_Averaç	je
Agilent Spectrum Analyzer - S (X) RL RF 50	Swept SA			11:57:42 AM Dec 25, 2017	je Frequency
Agilent Spectrum Analyzer - S	Swept SA	SENSE:PULSE	nts_Hopping Off_		
Agilent Spectrum Analyzer - 5 04 RL RF 50 Center Freq 2.489	Swept SA D Q AC     OOOOOOO GHz PNO: Fast IFGain:Low	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	
Agilent Spectrum Analyzer - S IXI RL RF 50	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P	Frequency
Agilent Spectrum Analyzer - 5 (A) RL RF 50 Center Freq 2.489 Ref Offset 10 dB/div Ref 20.00 10.0	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tur Center Fre
Agilent Spectrum Analyzer - 5 XI RL RF 50 Center Freq 2.489 Ref Offset 10 dB/div Ref 20.00 10.0 0.00 0.1	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tu
Agilent Spectrum Analyzer - 5 Val RL RF 50 Center Freq 2.489 Ref Offset 10 dB/div Ref 20.00 10.0	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tur Center Fre 2.489000000 G
Agilent Spectrum Analyzer - 5 XI RL RF 50 Center Freq 2.4890 Center Freq 2.4890 Ref Offset 10 dB/div Ref 20.00 10.0 10.0 10.0 10.0	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tur Center Fre
Agilent Spectrum Analyzer - 5 (X) RL RF 50 Center Freq 2.489 10 dB/div Ref 20.01 10.0 -10.0 -20.0 -30.0 -40.0	Swept SA 20 AC	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42 AM Dec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tur Center Fre 2.48900000 G Start Fre
Agilent Spectrum Analyzer - 5 XI RL RF 50 Center Freq 2.489 Ref Offset 10 dB/div Ref 20.00 10.0 0.00 -10.0 -20.0 -30.0	Swept SA DQ AC DOUCLOOR GHZ PNO: Fast IFGain:Low 7.01 dB	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42AM Dec 25, 2017 TRACE 12:3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.591 dBm	Frequency Auto Tur Center Fre 2.48900000 G Start Fre 2.47800000 G
Agilent Spectrum Analyzer - 5 (X) RL RF 50 Center Freq 2.489 10 dB/div Ref Offset 10 dB/div Ref 20.00 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	Swept SA 20 AC	sense:Pulse	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	11:57:42AM Dec 25, 2017 TRACE 12:3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.591 dBm	Frequency Auto Tur Center Fre 2.489000000 Gi Start Fre 2.478000000 Gi
Agilent Spectrum Analyzer - 5 (M RL RF 50 Center Freq 2.489) Ref Offset 10 dB/div Ref 20.00 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -70.0 Start 2.47800 GHz	Swept SA D Q AC   PNO: Fast IFGain:Low 7.01 dB 0 dBm	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10  Mkr3 2.5	111:57:42 AM Dec 25, 2017 TRACE [1] 2 3 4 5 6 TYPE M WWWW Det   P P P P P P 00 000 00 GHz -54.591 dBm 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G
Agilent Spectrum Analyzer - 5 (W) RL RF 50 Center Freq 2.489 10 dB/div Ref Offset 10 dB/div Ref 20.00 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.47800 GHz #Res BW 1.0 MHz	Swept SA DO AC PNO: Fast IFGain:Low 7.01 dB 0 dBm 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWW Det P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M
Agilent Spectrum Analyzer - 5           XI         RF         SC           Center Freq 2.489         Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref Offset           10.0         1           -20.0         1           -30.0         1           -40.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -50.0         -50.0           -70.0         -50.0           Start 2.47800 GHz           #Res BW 1.0 MHz           MKR MODE TRC SCL           1         N	Swept SA DO00000 GHz PNO: Fast IFGain:Low 7.01 dB 0 dBm 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10  Mkr3 2.5	11:57:42 AM Dec 25, 2017 TRACE [] 2 3 4 5 6 TYPE M WWWW Det    P P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M
Agilent Spectrum Analyzer - 5           Center Freq 2.489           Ref Offset           Log           10.0           0.00           -10.0           -20.0           -30.0           -60.0           -60.0           -70.0           Start 2.47800 GHz           #Res BW 1.0 MHz           MKR MODE TRC SCL           1         F           3         F	Swept SA DO00000 GHz PNO: Fast IFGain:Low 7.01 dB 0 dBm 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWW Det P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M Auto M Freq Offs
Agilent Spectrum Analyzer         Start           XM         RL         RF         Start           Center Freq         2.4891           Ref Offset         Ref Offset           10         dB/div         Ref 20.01           Log         1         1           10.0         1         1           0.00         1         1           -10.0         1         1           -20.0         1         1           -40.0         1         1           -50.0         -         -           -60.0         -         -           -70.0         -         -           Start         2.47800 GHz         #Res BW 1.0 MHz	Swept SA D Q AC D PNO: Fast IFGain:Low 7.01 dB 0 dBm 2.479 971 75 GHz 2.483 500 00 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWW Det P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M Auto M
Agilent Spectrum Analyzer - S           Center Freq 2.4891           Ref Offset           10 dB/div         Ref Offset           Log         10           10.0         1           -20.0         1           -30.0         1           -50.0         -           Start 2.47800 GHz         #Res BW 1.0 MHz           MKR MODE TRC SCL         1           1         7           3         7           4         5         5           6         6         6           7         8         9	Swept SA D Q AC D PNO: Fast IFGain:Low 7.01 dB 0 dBm 2.479 971 75 GHz 2.483 500 00 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWW Det P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M Auto M Freq Offs
Agilent Spectrum Analyzer - 5 24 RL RF 50 Center Freq 2.489 Ref Offset 10 dB/div Ref 20.00 10.0 10.0 -10.0 -10.0 -10.0 -20.0 -30.0 -40.0 -30.0 -40.0 -50.0 -50.0 -50.0 -60.0 -70.0 Start 2.47800 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N f 3 N f 3 N f 3 N f 4 5 5 5 6 6 7 8 9 9 10	Swept SA D Q AC D PNO: Fast IFGain:Low 7.01 dB 0 dBm 2.479 971 75 GHz 2.483 500 00 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12:3 4 5 6 TYPE MWWWW DET P P P P P 00 000 00 GHz -54.591 dBm 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M Auto M Freq Offs
Agilent Spectrum Analyzer - 5           K         RL         RF         SC           Center Freq 2.4891           Ref Offset           10 dB/div         Ref 20.01           Ogg         1         1           0.00         1         1           -20.0         1         1           -30.0         1         1           -40.0         1         1           -50.0         1         1           -60.0         -70.0         1         1           Start 2.47800 GHz         #Res BW 1.0 MHz         MKR MODE         TRC         SCL           1         N         f         3         N         f           3         N         f         3         8         9         9         9         9         9	Swept SA D Q AC D PNO: Fast IFGain:Low 7.01 dB 0 dBm 2.479 971 75 GHz 2.483 500 00 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10 Mkr3 2.5	11:57:42AM Dec 25, 2017 TRACE 12 3 4 5 6 TYPE MWWWW Det P P P P P 00 000 00 GHz -54.591 dBm 3 3 5top 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tur Center Fre 2.489000000 G Start Fre 2.478000000 G Stop Fre 2.500000000 G CF Ste 2.200000 M Auto M Freq Offs

	Ω AC	SENSE:PULSE	ALIGNAUTO	01:32:22 PMDec 25, 2017	Frequency	
Center Freq 2.3570	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P P P P P P	Frequency	
Ref Offset		#Atten: 30 dB	Mkr3	2.390 000 GHz -44.144 dBm	Auto Tu	
10.0 0.00				{	<b>Center Fr</b> 2.357000000 G	
-10.0				▲3	<b>Start Fr</b> 2.310000000 G	
-40.0 )	\$	nith anti-sector to a sector of a sector of an	n.m. Årisenti, stranta i verdes det	anterniheti ministrati attesti	<b>Stop Fr</b> 2.404000000 G	
-70.0 Start 2.31000 GHz #Res BW 1.0 MHz	#VB	W 3.0 MHz		Stop 2.40400 GHz 067 ms (8001 pts)	<b>CF St</b> e 9.400000 M	
MKR MODE TRC SCL	X		INCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M	
1 N f 2 N f 3 N f 4 5 6	2.401 803 GHz 2.310 000 GHz 2.390 000 GHz	-3.071 dBm -44.201 dBm -44.144 dBm			Freq Offs 01	
7 8 8 9 10						
11						
Restrict-ba	nd band-edge r	neasurements_	Kostatus _Hopping Off_π/		rage	
Restrict-bai	wept SA Ω AC     000000 GHz PN0: Fast •	SENSE:PULSE			rage Frequency	
Restrict-bai	wept SA Ω AC       000000 GHz PN0: Fast • IFGain:Low 7.01 dB	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave 01:32:34 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW		
Restrict-bai	wept SA Ω AC       0000000 GHz PN0: Fast • IFGain:Low 7.01 dB	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave	Frequency	
Agilent Spectrum Analyzer - S           W RL         RF         50           Center Freq 2.3570         Ref Offset           10 dB/div         Ref 20.000           10.0	wept SA Ω AC       0000000 GHz PN0: Fast • IFGain:Low 7.01 dB	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave	Frequency Auto Tur Center Fre	
Agilent Spectrum Analyzer - S           VI         RF         SO           Center Freq 2.3570         SO           10 dB/div         Ref Offset           10.0         SO           -10.0         SO           -20.0         SO	wept SA Ω AC       0000000 GHz PN0: Fast • IFGain:Low 7.01 dB	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/10	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 GI Start Fre	
Restrict-ban           Agilent Spectrum Analyzer - S           Mg         RE         SO           Center Freq 2.3570           Conter Freq 2.3570           Ref Offset           Conter Freq 2.3570           Conter Freq 2.3570 <td>Swept SA           IQ         AC         Image: Second secon</td> <td>SENSE:PULSE</td> <td>_Hopping Off_π/ Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHold: 1/10  Mkr3</td> <td>4-DQPSK_Ave</td> <td>Frequency Auto Tur Center Fre 2.357000000 Gl 2.310000000 Gl Stop Fre 2.404000000 Gl CF Ste 9.400000 M</td>	Swept SA           IQ         AC         Image: Second secon	SENSE:PULSE	_Hopping Off_π/ Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHold: 1/10  Mkr3	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 Gl 2.310000000 Gl Stop Fre 2.404000000 Gl CF Ste 9.400000 M	
Restrict-bai           Agilent Spectrum Analyzer - S           XI         RF         50           Center Freq 2.3570         Ref Offset         50           Conter Freq 2.3570         Ref Offset         50           Io dB/div         Ref Offset         60.00           -10.0	Swept SA         Image: SA           D000000 GHz         PN0: Fast · IFGain:Low           7.01 dB         DdBm	SENSE:PULSE	_Hopping Off_π/ Augnauto Avg Type: Log-Pwr Avg Hold: 1/10 Mkr3	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 Gl 2.310000000 Gl Stop Fre 2.404000000 Gl CF Ste 9.400000 M	
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MSG         Restrict-bai           Agilent Spectrum Analyzer - S         SO           Center Freq 2.3570         SO           Center Freq 2.3570         SO           10 dB/div         Ref Offset           10 dB/div         Ref 20.00           Log         Image: Solid structure           10.0         Image: Solid structure           -20.0         Image: Solid structure           -30.0         Image: Solid structure           -40.0         Image: Solid structure           -50.0         Image: Solid structure           -60.0         Image: Solid structure           -60.0         Image: Solid structure           -70.0         Image: Solid structure           Start 2.31000 GHz         F           #Res BW 1.0 MHz         F           Image: Solid structure         Image: Solid structure           Image: Solid structure         Image: Solid structure <t< td=""><td>SN         SN           102         AC         Image: Solution of the second se</td><td>SENSE:PULSE → Trig: Free Run #Atten: 30 dB</td><td>_Hopping Off_π/ Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHold: 1/10  Mkr3</td><td>4-DQPSK_Ave</td><td>Frequency Auto Tur Center Fre 2.357000000 Gl 2.310000000 Gl 2.404000000 Gl 2.40400000 Gl 9.400000 Mi Auto Mi</td></t<>	SN         SN           102         AC         Image: Solution of the second se	SENSE:PULSE → Trig: Free Run #Atten: 30 dB	_Hopping Off_π/ Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHold: 1/10  Mkr3	4-DQPSK_Ave	Frequency Auto Tur Center Fre 2.357000000 Gl 2.310000000 Gl 2.404000000 Gl 2.40400000 Gl 9.400000 Mi Auto Mi	

Center Freq 2.4890		SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	01:36:54 PMDec 25, 2017 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 7.	PNO: Fast IFGain:Low .01 dB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Avg Hold: 10/10 Mkr3 2.5		Auto Tu
10 dB/div Ref 20.00	dBm			-44.927 dBm	
					<b>Center Fr</b> 2.489000000 G
-20.0					<b>Start Fr</b> 2.478000000 G
-40.0	2	*****	ri, Itili danlat melatima tisitisi darapan dalar	an a	
-60.0					<b>Stop Fr</b> 2.500000000 G
Start 2.47800 GHz #Res BW 1.0 MHz	#\/P	SW 3.0 MHz		Stop 2.50000 GHz 067 ms (8001 pts)	<b>CF St</b> 2.200000 M
MKR MODE TRC SCL	X			FUNCTION VALUE	2.200000 M Auto M
2 N f 3 N f 4	2.479 903 00 GHz 2.483 500 00 GHz 2.500 000 00 GHz	-3.034 dBm -43.895 dBm -44.927 dBm			Freq Offs 0
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MSG	ıd band-edge ı	measurements	to status _Hopping Off_π/		rage
MSG	vept SA	SENSE:PULSE	<b>-</b>		rage Frequency
Restrict-ban Agilent Spectrum Analyzer - Sw M RL RF 50 S Center Freq 2.4890 Ref Offset 7 10 dB/div Ref 20.00	vept SA 2 AC DOOOO GHz PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW	
Restrict-ban Agilent Spectrum Analyzer - Sw X RL RF 50 C Center Freq 2.4890 Ref Offset 7 10 dB/div Ref 20.00 10.0 0.00 1	vept SA 2 AC DOOOO GHz PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz	Frequency
Agient Spectrum Analyzer - Sw           X         Restrict-ban           Agient Spectrum Analyzer - Sw         Ref Offset 7.           X         Ref Offset 7.           10 dB/div         Ref 20.00           10.0         1           .20.0         1           .30.0         1	vept SA 2 AC DOOOO GHz PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tu
Agilent Spectrum Analyzer - Sw           MSG           Agilent Spectrum Analyzer - Sw           M RL         RF           SCenter Freq 2.4890           Ref Offset 7.           10 dB/div         Ref 20.00           10.0         11           -20.0         11	vept SA 2 AC DOOOO GHz PNO: Fast IFGain:Low	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz	Frequency Auto Tu Center Fr 2.489000000 G Start Fr 2.478000000 G
Agilent Spectrum Analyzer - Sw           X         RL         RF         50 c           Center Freq 2.4890         Ref Offset 7         Ref 20.00           Log         10.0         10.0         11           10.0         11         10.0         11           -20.0         11         11         11           -40.0         1         11         11	vept SA 2 AC DO000 GHz PN0: Fast IFGain:Low 01 dB dBm 01 dB dBm	SENSE:PULSE	_Hopping Off_π/ ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.571 dBm	Frequency Auto Tur Center Fr 2.48900000 G Start Fr
Agilent Spectrum Analyzer - Sw           Agilent Spectrum Analyzer - Sw           RL         RF         50 c           Center Freq 2.4890           Ref Offset 7.           Log         Ref Offset 7.           10 dB/div         Ref 20.00           10.0         1           20.0         1           -20.0         1           -50.0         -60.0	vept SA 2 AC DO000 GHz PN0: Fast IFGain:Low 01 dB dBm 2 2 2 2	SENSE:PULSE	_Hopping Off_π/ Augnauto Avg Type: Log-Pwr Avg Hold: 5/10  Mkr3 2.5	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.571 dBm	Frequency Auto Tur Center Fr 2.48900000 G Start Fr 2.47800000 G
Agient Spectrum Analyzer - SW           Ref Offset 7           To dB/div           Ref Offset 7           10.0           10.0           10.0           -20.0           -30.0           -40.0           -50.0           -60.0           -70.0           Start 2.47800 GHz           #Res BW 1.0 MHz           MKR MODE TRC SCL	vept SA 2 AC DO000 GHz PNO: Fast IFGain:Low 01 dB dBm 2 C 2 C 4 VE #VE	SENSE:PULSE	_Hopping Off_π/ Augnauto Avg Type: Log-Pwr Avg Hold: 5/10  Mkr3 2.5	4-DQPSK_Ave	Frequency Auto Tur Center Fr 2.48900000 G Start Fr 2.478000000 G Stop Fr 2.50000000 G
Agient Spectrum Analyzer - SW           Agient Spectrum Analyzer - SW           RL         RF         50 c           Center Freq 2.4890           Ref Offset 7           10 dB/div         Ref Offset 7           10 dB/div         Ref 20.00           Log         1           10.0         1           -30.0         1           -40.0         -40.0           Start 2.47800 GHz         #Res BW 1.0 MHz           MKR MODE TRC SCL         1         N         f           3         N         f         4           5         5         5         5	vept SA 2 AC DOOOO GHZ PNO: Fast IFGain:Low .01 dB dBm .01 dB .01 dB	SENSE:PULSE	_Hopping Off_π/ Avg Type: Log-Pwr AvgIHold: 5/10  Mkr3 2.5	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.571 dBm 3 3 Stop 2.50000 GHz 1.716 s (8001 pts)	Frequency           Auto Tui           Center Fr           2.489000000 G           Start Fr           2.478000000 G           Stop Fr           2.500000000 G           CF Sto           2.200000 M
Agient Spectrum Analyzer - SW         Ref Offset 7         Center Freq 2.4890         Ref Offset 7         10 dB/div       Ref 20.00         Log       10         10.0       1         -20.0       1         -30.0       1         -40.0       1         -50.0       -         -60.0       -         -70.0       -         Start 2.47800 GHz         #Res BW 1.0 MHz         MKR MODE TRC SCL         1       1         4       5         5       5         6       7         7       7	xept SA 2 AC DO000 GHz PN0: Fast IFGain:Low .01 dB dBm .01 dB .01 dB	SENSE:PULSE Trig: Free Run #Atten: 30 dB	_Hopping Off_π/ Avg Type: Log-Pwr AvgIHold: 5/10  Mkr3 2.5	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.571 dBm 3 3 Stop 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tu Auto Tu 2.48900000 G Start Fr 2.47800000 G Stop Fr 2.50000000 G CF Sta 2.200000 M Auto M
Agilent Spectrum Analyzer - SW           Agilent Spectrum Analyzer - SW           MSG           Center Freq 2.4890           Ref Offset 7.           10 dB/div         Ref 20.00           Log         10.0           10.0         1           -20.0         1           -30.0         1           -50.0         1           -60.0         1           -70.0         5           Start 2.47800 GHz         #Res BW 1.0 MHz           MKB MODE TBC SCL         1         N         f           3<         N         f         4           5         5         5         5           7         1         7         1	xept SA 2 AC DO000 GHz PN0: Fast IFGain:Low .01 dB dBm .01 dB .01 dB	SENSE:PULSE Trig: Free Run #Atten: 30 dB	_Hopping Off_π/ Avg Type: Log-Pwr AvgIHold: 5/10  Mkr3 2.5	01:37:06 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P 00 000 00 GHz -54.571 dBm 3 3 Stop 2.50000 GHz 1.716 s (8001 pts)	Frequency Auto Tu Auto Tu 2.48900000 G Start Fr 2.47800000 G Stop Fr 2.50000000 G CF Sta 2.200000 M Auto M

RL         RF         50 S           Center Freq 2.3570	vept SA Ω AC 000000 GHz PN0: Fast ↔	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	01:39:26 PMDec 25, 2017 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
Ref Offset 7 10 dB/div Ref 20.00	IFGain:Low	#Atten: 30 dB	Mkr3	оет РРРРРР 2.390 000 GHz -45.112 dBm	Auto Tu
10.0 0.00					<b>Center Fr</b> 2.357000000 G
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-40.0 -50.0 -60.0	Rad the same line in the last in the same line in the same line in the same line in the same line in the same t	in the construction of the second	eleteren ut star ander Magna ale star star star star st	3 	Stop Fr
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#Res BW 1.0 MHz	#VB\ × 2.401 991 GHz	V 3.0 MHz Y FU -2.865 dBm		067 ms (8001 pts)	9.400000 M Auto M
2 N f 3 N f 4 5 6	2.310 000 GHz 2.390 000 GHz	-45.027 dBm -45.112 dBm			Freq Offs
7					
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9 10 11 <				× >	
9 10 11 • •	and band-edge	measurement	ts_Hopping Off_		ge
9 10 11 Msg Restrict-b	wept SA Ω AC	measurement		8-DPSK_Avera	
9 10 11 MSG Restrict-b	wept SA Ω AC	SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 1/10	8-DPSK_Avera	Frequency
9 10 11 Msg Restrict-b	vept SA Ω AC 000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 1/10	8-DPSK_Avera	
9 10 11 MSG Restrict-b Agilent Spectrum Analyzer - Sv VI RL RF 50 G Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00	vept SA Ω AC 000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 1/10	8-DPSK_Avera	Frequency
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9 10 11 MSG Restrict-b Agilent Spectrum Analyzer - SV X RL RF 50 4 Center Freq 2.3570 Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00 -00 -00 -00 -00 -00 -00 -00	wept SA           Q         AC           D00000 GHz           PN0: Fast           IFGain:Low	SENSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/10  Mkr3	B-DPSK_Avera	Frequency Auto Tu Center Fr 2.357000000 G Start Fr 2.310000000 G Stop Fr 2.404000000 G CF Sto 9.400000 M
9 10 11 MSG Restrict-b Agilent Spectrum Analyzer - SV X RL RF 50 G Center Freq 2.3570 Center Freq 2.3570 Ref Offset 7 10 dB/div Ref 20.00 -00 -00 -00 -00 -00 -00 -00	wept SA           Q         AC           D00000 GHz           PN0: Fast           IFGain:Low	SENSE:PULSE Trig: Free Run #Atten: 30 dB	ts_Hopping Off_i	B-DPSK_Avera	Frequency Auto Tur Center Fre 2.357000000 G Start Fre 2.310000000 G Stop Fre 2.404000000 G

	50 Ω AC	SENSE:PULS	E ALIGN AUTO Avg Type: Log-Pwr		Frequency
Center Freq 2.489		ast ↔→ Trig: Free Rur .ow #Atten: 30 dB		TYPE MWWWW DET P P P P P	
Ref Offset			Mkr3 2.	500 000 00 GHz -43.261 dBm	Auto Tur
10 dB/div Ref 20.0	10 dBm			-43.281 dBill	
					Center Fre 2.489000000 GH
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Start 2.47800 GHz #Res BW 1.0 MHz		VBW 3.0 MHz	Sween	Stop 2.50000 GHz 1.067 ms (8001 pts)	CF Ste 2.200000 MH
MKR MODE TRC SCL	X	Y	FUNCTION FUNCTION WIDTH		<u>Auto</u> Ma
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4 5					0+
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MSG	band band-e	dge measurem	ents_Hopping Off		ge
Restrict-		dge measurem	ents_Hopping Off_	_8-DPSK_Avera	
MSG Restrict-	Swept SA 10 Ω AC   10000000 GHz PN0: F:	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr	8-DPSK_Avera	ge Frequency
Restrict- Agilent Spectrum Analyzer - WRL RF 5 Center Freq 2.489	Swept SA 10 Ω AC   0000000 GHz PNO: F IFGain:L	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	_8-DPSK_Avera	
MSG Restrict-I Agilent Spectrum Analyzer - M RL RF 5	Swept SA 10 Q AC 20000000 GHz PNO: F IFGain:1 t 7.01 dB	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	8-DPSK_Avera	Frequency
Restrict-	Swept SA 10 Q AC 20000000 GHz PNO: F IFGain:1 t 7.01 dB	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	8-DPSK_Avera	Frequency Auto Tun Center Fre
Agilent Spectrum Analyzer - Agilent Spectrum Analyzer - Center Freq 2.489 10 dB/div Ref Offset Log	Swept SA 10 Q AC 20000000 GHz PNO: F IFGain:1 t 7.01 dB	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	8-DPSK_Avera	Frequency Auto Tun
Agilent Spectrum Analyzer - XT RL RF 5 Center Freq 2.489 10 dB/div Ref 20.0 10.0 10.0 -10.0 -10.0 -20.0	Swept SA 10 Q AC 20000000 GHz PNO: F IFGain:1 t 7.01 dB	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	8-DPSK_Avera	Frequency Auto Tun Center Fre 2.48900000 GH
Restrict-	Swept SA 10 Q AC   10 000000 GHz PN0: F IFGain:1 17.01 dB 10 dBm	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10		Frequency Auto Tun Center Fre 2.489000000 GH
Restrict-           Agilent Spectrum Analyzer -           Agilent Spectrum Analyzer -           QCenter Freq 2.489           Ref Offset           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           10.0         1           -0.0         1           -10.0         1           -30.0         1           -40.0         -50.0	Swept SA 10 Q AC 20000000 GHz PNO: F IFGain:1 t 7.01 dB	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10	8-DPSK_Avera	Frequency Auto Tun Center Fre 2.489000000 GH Start Fre 2.478000000 GH
Agilent Spectrum Analyzer -           Agilent Spectrum Analyzer -           QX         RL         RF         5           Center Freq 2.489           10 dB/div         Ref Offset           10 dB/div         Ref 20.0           10.0         1           20.0         1           -30.0         1           -40.0         1	Swept SA 10 Q AC   10 000000 GHz PN0: F IFGain:1 17.01 dB 10 dBm	sense:PULs	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/10		Frequency Auto Tun Center Fre 2.48900000 GH
Restrict-           Agilent Spectrum Analyzer -         S           Q/         RL         RF         S           Center Freq 2.489         Ref Offset         S           10         B         Ref Offset         S           10         B         I         Ref Offset         S           10         D         I         S	Swept SA 10 Q AC 10000000 GHz PNO: F: IFGain: 17.01 dB 10 dBm	sense:PULS	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg]Hold: 5/10 Mkr3 2.		Frequency           Auto Tun           Center Fre           2.489000000 GH           Start Fre           2.478000000 GH           Stop Fre           2.50000000 GH
Restrict-           Agilent Spectrum Analyzer         5           Center Freq 2.489         S           Center Freq 2.489         Ref Offset           10 dB/div         Ref 20.0           10 dB/div         Ref 20.0           10.0         1           -20.0         1           -30.0         1           -40.0         -50.0           -50.0         -50.0           Start 2.47800 GHz           #Res BW 1.0 MHz	Swept SA 10 Q AC PN0: F IFGain:1 t7.01 dB 0 dBm 2 2 2 2 4 3	SENSE:PULS ast ↔ Trig: Free Rur Atten: 30 dB	ents_Hopping Off_		Frequency Auto Tun Center Fre 2.48900000 GF Start Fre 2.478000000 GF
Restrict-           Agient Spectrum Analyzer -         S           Center Freq 2.489         Ref Offset           10 dB/div         Ref 20.0           Log         -           10.0         -           -20.0         -           -30.0         -           -40.0         -           -50.0         -           -60.0         -           -70.0         -           Start 2.47800 GHz         #Res BW 1.0 MHz	Swept SA 10 Q AC 10000000 GHz PN0: F- IFGain: 17.01 dB 10 dBm 2 2 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	SENSE:PULS ast ↔ Trig: Free Rur #Atten: 30 dB	ents_Hopping Off_ E ALIGNAUTO Avg Type: Log-Pwr Avg]Hold: 5/10 Mkr3 2.		Frequency Auto Tun Center Fre 2.48900000 GH 2.47800000 GH 2.47800000 GH 2.50000000 GH 2.50000000 GH 2.50000000 GH 2.50000000 GH 2.50000000 GH 2.50000000 GH
Restrict-           Agient Spectrum Analyzer -         S           Center Freq 2.489         Ref Offset           10 dB/div         Ref 20.0           Log         -           10.0         -           10.0         -           -0.0         -           -30.0         -           -30.0         -           -70.0         -           Start 2.47800 GHz         #Res BW 1.0 MHz           MKR MODE         TRC SCL           1         N         f           3         N         f	Swept SA 20000000 GHz PNO: F: IFGain: t7.01 dB 0 dBm 2 2 2 3 3 3 4	SENSE: PULS ast →→ Trig: Free Rur #Atten: 30 dB	ents_Hopping Off_		Frequency Auto Tun Center Fre 2.489000000 GH 2.478000000 GH 2.478000000 GH 2.500000000 GH 2.50000000 GH CF Ste 2.200000 MH
Restrict-           Agilent Spectrum Analyzer -         5           Center Freq 2.489         Ref Offset           10 dB/div         Ref 20.0           10 dB/div         Ref 20.0           10 dB/div         Ref 20.0           10.0         1           -00         1           -10.0         1           -30.0         1           -40.0         -           -50.0         -           -60.0         -           -70.0         -           Start 2.47800 GHz         #Res BW 1.0 MHz           MKR MODE         TRC           1         N         f           3         N         f	Swept SA 10 Q AC PNO: F IFGain:1 t 7.01 dB 10 dBm 2 2 2 2 4 2 4 2 4 2 4 3 2 4 3 3 2 4 3 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0	SENSE: PULS ast →→ Trig: Free Rur #Atten: 30 dB	ents_Hopping Off_		Frequency           Auto Tun           Center Fre           2.489000000 GH           Start Fre           2.478000000 GH           Stop Fre           2.500000000 GH           CF Ste           2.200000 MH           Auto           Mato           Freq Offset
Restrict-           Agilent Spectrum Analyzer -         S           QX         RL         RF         S           Center Freq 2.489         Ref Offset         S           10 dB/div         Ref 20.0         Ref 20.0           10.0         1         1         1           20.0         1         1         1           -20.0         1         1         1           -30.0         1         1         1           -40.0         1         1         1           -50.0         -         -         -           Start         2.47800 GHz         F           MKR         MODE         TRC         SCL         1           MKR         - <th< td=""><td>Swept SA 10 Q AC PNO: F IFGain:1 t 7.01 dB 10 dBm 2 2 2 2 4 2 4 2 4 2 4 3 2 4 3 3 2 4 3 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>SENSE: PULS ast →→ Trig: Free Rur #Atten: 30 dB</td><td>ents_Hopping Off_</td><td></td><td>Frequency           Auto Tun           Center Fre           2.489000000 GH           Start Fre           2.478000000 GH           Stop Fre           2.500000000 GH           CF Ste           2.200000 MH           Auto           Mato           Freq Offset</td></th<>	Swept SA 10 Q AC PNO: F IFGain:1 t 7.01 dB 10 dBm 2 2 2 2 4 2 4 2 4 2 4 3 2 4 3 3 2 4 3 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0	SENSE: PULS ast →→ Trig: Free Rur #Atten: 30 dB	ents_Hopping Off_		Frequency           Auto Tun           Center Fre           2.489000000 GH           Start Fre           2.478000000 GH           Stop Fre           2.500000000 GH           CF Ste           2.200000 MH           Auto           Mato           Freq Offset
Restrict-           Agilent Spectrum Analyzer - //// S           Val         RF         S           Center Freq 2.489           Ref Offset           10 dB/div         Ref 20.0           Log         1         1           10.0         -         -         1           20.0         -         -         1           -20.0         -         -         1           -30.0         -         -         -           -40.0         -         -         -           -60.0         -         -         -           -70.0         -         -         -           Start 2.47800 GHz         #         -         -           1         N         f         -         -           3         N         f         -         -           3         N         f         -         -           8         -         -         -         -	Swept SA 10 Q AC PNO: F IFGain:1 t 7.01 dB 10 dBm 2 2 2 2 4 2 4 2 4 2 4 3 2 4 3 3 2 4 3 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0	SENSE: PULS ast →→ Trig: Free Rur #Atten: 30 dB	ents_Hopping Off_		Frequency           Auto Tun           Center Fre           2.489000000 GH           Start Fre           2.478000000 GH           Stop Fre           2.500000000 GH           CF Ste           2.200000 MH           Auto           Mato           Freq Offset