

	ectrum Analyzer - Swept SA					
Contor	RF 50 Ω AC req 15.00000000		SENSE:INT	#Avg Type: RMS	03:01:11 PM May 15, 2019	Frequency
Centerr	194 15.00000000	PNO: Fast +++ IFGain:High	Trig: Free Run #Atten: 0 dB		TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A 1 18.998 22 GHz	Auto Tune
10 dB/div Log	Ref -20.00 dBm				-82.446 dBm	
-30.0						Center Freq 15.00000000 GHz
-40.0						
-50.0						Start Fred 10.000000000 GHz
-60.0						Stop Fred 20.000000000 GHz
-70.0					1	CF Step
-80.0		a and a state of the			RMS	1.000000000 GHz Auto Man
-90.0						Freq Offset 0 Hz
-110						
Start 10.0 #Res BW	000 GHz 1.0 MHz	#VBW	3.0 MHz	Sweep 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
MSG				STATU	JS	

BAND 66/4. Conducted Spurious Plot_2 (131979ch_1.4MHz_QPSK_ RB 1_0)



	ctrum Analyzer - Swept									- # *
RL Center F	RF 50 Ω req 5.01500	AC 0000 G	Hz			#Avg Ty	ALIGN AUTO	TRAC	MMay 15, 2019	Frequency
0 dB/div	Ref 0.00 dB		PNO: Fast ← IFGain:Low	#Atten: 1			M	kr1 3.489	6 GHz 32 dBm	Auto Tun
og 10.0 20.0 30.0	¥2									Center Fre 5.015000000 G⊦
40.0 50.0 50.0										Start Fre 30.000000 MF
70.0 30.0 90.0					and the second second				RMS	Stop Fre 10.000000000 GF
KR MODE T	RC SCL	X		W 3.0 MHz Y			Sweep 17	7.33 ms (2	.000 GHz 0001 pts) DN VALUE	CF Ste 997.000000 Mi <u>Auto</u> Ma
1 N 2 N 3 4 5 6 7 8 9	1 f 1 f	<u>3.48</u> 1.74	9 6 GHz 5 3 GHz	-74.632 df -3.720 df					ш	Freq Offs 0 F
				ш			STATU	IS	•	

BAND 66/4. Conducted Spurious Plot_1 (132322ch_1.4MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC Center Freq 15.00000000	0 GHz	#Avg Type: RMS	03:03:22 PM May 15, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 dBm	PNO: Fast +++ Trig: Free R IFGain:High #Atten: 0 dB	В	TRACE 1 2 3 4 5 6 TYPE A DET A A A A A A 1 18.898 97 GHz -82.735 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
-60.0				Stop Freq 20.000000000 GHz
-80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
MSG		I STATU		

BAND 66/4. Conducted Spurious Plot_2 (132322ch_1.4MHz_QPSK_ RB 1_0)



	ctrum Analyze									
enter F	_R , req 5.0′	50 Ω AC 15000000	GHz PNO: Fast			#Avg Typ	ALIGN AUTO	TRAC	May 15, 2019 E 1 2 3 4 5 6 E A WWWWW	Frequency
0 dB/div	Ref 0.0	00 dBm	IFGain:Low	#Atten: 1	0 dB		MI	(r1 3.560	4 GHz	Auto Tun
og 10.0 20.0 30.0		¥2								Center Fre 5.015000000 GF
i0.0 i0.0 i0.0										Start Fre 30.000000 Mi
70.0 30.0 30.0									RMS	Stop Fre 10.00000000 GF
	1.0 MHz	Х		W 3.0 MHz Y			weep 17	Stop 10. 7.33 ms (20		CF Ste 997.000000 Mi <u>Auto</u> Ma
3 4 5 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			560 4 GHz 780 2 GHz	-75.668 df -4.355 df	3m 3m				, m	Freq Offs 0 ł
9 0 1 1 6 6				т			STATU	S	•	

BAND 66/4. Conducted Spurious Plot_1 (132665ch_1.4MHz_QPSK_ RB 1_0)



					trum Analyzer - Swept SA	
2019 Frequency	03:05:18 PM May 15, 2019	ALIGN AUTO #Avg Type: RMS	SENSE:INT		RF 50 Ω AC req 15.000000000	X/RL
	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type. Amo	ig: Free Run tten: 0 dB	PNO: Fast ++ Trig: F	req 15.00000000	Jenter F
Hz Auto Tune 3m	18.911 97 GHz -82.794 dBm	Mkr1			Ref -20.00 dBm	10 dB/div Log
Center Free 15.000000000 GH						30.0
Start Fred 10.000000000 GHz						-40.0
Stop Free 20.000000000 GH						-60.0
CF Step 1.000000000 GH <u>Auto</u> Ma	1 RMS					80.0
Freq Offse 0 H						-100
Hz	Stop 20.000 GHz .67 ms (40000 pts)	Swaap 26	MUz	#VBW 3.0 MI		Start 10.0
		Sweep 20	WITIZ			ISG

BAND 66/4. Conducted Spurious Plot_2 (132665ch_1.4MHz_QPSK_ RB 1_0)



Agilent Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC Center Freq 5.015000000	GHz PNO: Fast ↔	SENSE:INT	ALIGN AUTO #Avg Type: RMS	03:07:03 PM May 15, 2019 TRACE 1 2 3 4 5 6 TYPE A DET A A A A A A	Frequency
0 dB/div Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB	M	(r1 3.421 3 GHz -72.089 dBm	Auto Tun
•g 72 0.0					Center Fre 5.015000000 GF
0.0	1				Start Fre 30.000000 Mi
0.0 0 000 000 000 000 000 000 000 000 0	-			FMS	Stop Fre 10.00000000 GF
tart 30 MHz Res BW 1.0 MHz KR MODE TRC SCL X			Sweep 17	Stop 10.000 GHz .33 ms (20001 pts) FUNCTION VALUE	CF Ste 997.000000 MH <u>Auto</u> Ma
2 N 1 f 1. 3 6 7 7 8 9 9 9 0	421 3 GHz 710 9 GHz	-72.089 dBm -3.603 dBm			Freq Offs 0 ł
1			STATU		

BAND 66/4. Conducted Spurious Plot_1 (131987ch_3MHz_QPSK_ RB 1_0)



									um Analyzer - Sv	
Frequency	May 15, 2019 E 1 2 3 4 5 6	TRAC	ALIGN AUTO e: RMS	#Avg Typ	NSE:INT	SEN	GHz	Ω AC	RF 50 eq 15.000	RL enter Fi
Auto Tune		TYF				Trig: Free #Atten: 0	PNO: Fast ++ FGain:High			
	72 GHz 94 dBm	18.922	MKr1					0 dBm	Ref -20.00	dB/div
Center Freq										
15.00000000 GHz										0.0
Start Freq										0.0
10.00000000 GHz										0.0
Stop Freq										0.0
20.00000000 GHz										0.0
CF Step 1.00000000 GHz	1 RMS									0.0
<u>Auto</u> Man					inder we we					0.0
Freq Offset										
0 Hz										
										10
	.000 GHz	Stop 20				2 0 MILI-	#\/D\\			tart 10.0
	0000 pts)	07 ms (4	STATUS	5		3.0 MHz	#VBW			Res BW

BAND 66/4. Conducted Spurious Plot_2 (131987ch_3MHz_QPSK_ RB 1_0)



	ctrum Analyze								
enter F	_R ⊧ req 5.0	50 Ω AC	GHz	SENSE	#A	ALIGN AUTO	03:09:02 PMM TRACE	1 2 3 4 5 6	Frequency
0 dB/div		00 dBm	PNO: Fast	 Trig: Free F #Atten: 10 c 		M	kr1 3.488 -73.77	1 GHz 5 dBm	Auto Tun
•g 10.0 20.0 30.0		* <mark>2</mark>							Center Fre 5.015000000 GH
0.0									Start Fre 30.000000 Mi
70.0 30.0 30.0						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		RMS	Stop Fre 10.000000000 GF
KR MODE T	1.0 MH	X		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.0 7.33 ms (200 FUNCTION	001 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 2 N 3 4 5 5 5 7 7 7 7 8 9 9	1 f 1 f	3	488 1 GHz 744 3 GHz	-73.775 dBn -3.638 dBn				ш Ш	Freq Offs 0 I
G				m		K STATU	s	•	

BAND 66/4. Conducted Spurious Plot_1 (132322ch_3MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC Center Freq 15.0000000	00 GHz	ISE:INT ALIGN AUTO #Avg Type: RMS	03:09:19 PM May 15, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 dBm	PNO: Fast + Trig: Free IFGain:High #Atten: 0	dB	TRACE 1 2 3 4 5 6 TYPE A DET A AAAAAA 1 18.870 47 GHz -82.826 dBm	Auto Tune
-og 				Center Fred 15.000000000 GHz
-40.0				Start Fred 10.000000000 GHz
70.0				Stop Fred 20.000000000 GHz
-80.0			1 RMS	CF Step 1.00000000 GHz <u>Auto</u> Man
-100				Freq Offse 0 H:
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
NSG		STATU	and the second	

BAND 66/4. Conducted Spurious Plot_2 (132322ch_3MHz_QPSK_ RB 1_0)



	ctrum Analyze							
a RL Center F	^{RF} rea 5.0′	50 Ω AC 15000000	GHz	SENS	#A	ALIGN AUTO	03:11:00 PM May TRACE 12	3 4 5 6 Frequency
			PNO: Fast	Trig: Free # #Atten: 10		MI	Kr1 3.559 9	AAAA CHZ Auto Tun
0 dB/div	Ref 0.0	00 dBm					-75.883 c	IBm
10.0		¥2						Center Fre 5.015000000 GH
20.0 30.0								5.01500000 GP
40.0 50.0								Start Fre
50.0			4					30.000000 MH
70.0 30.0					and a second	~~~~		RMS Stop Fre
80.0							انتار المشاعل ا	10.00000000 GH
tart 30 I Res BW	MHz 1.0 MHz	,	#VB	N 3.0 MHz	I	Sweep 17	Stop 10.000 7.33 ms (2000	GHz CF Ste 997.000000 MH
KR MODE T		X		Y	FUNCTION	FUNCTION WIDTH		Auto Ma
1 N 2		<u>3</u> . 1.	559 9 GHz 780 2 GHz	-75.883 dBr -4.799 dBr				
3 4								Freq Offs
5								
7 8								
9								
1								— •
SG						STATU	c	

BAND 66/4. Conducted Spurious Plot_1 (132657ch_3MHz_QPSK_ RB 1_0)



Magilent Spectrum Analyzer - Swept					
M RL RF 50 Ω Center Freq 15.0000	AC 00000 GHz		ALIGN AUTO	03:11:16 PM May 15, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 d	PNO: Fast ↔ Trig: IFGain:High #Atte	Free Run en: 0 dB	Mkr1	TRACE 1 2 3 4 5 6 TYPE A AAAAAA DET AAAAAAA 18.902 72 GHz -82.216 dBm	Auto Tune
30.0					Center Fred 15.000000000 GH:
50.0					Start Fred 10.000000000 GH:
.70.0					Stop Fred 20.000000000 GH:
-80.0				1 RMS	CF Step 1.000000000 GH: <u>Auto</u> Mar
-100					Freq Offse 0 H
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 N	AHz	Sweep 26.	Stop 20.000 GHz 67 ms (40000 pts)	
ISG			to STATUS		

BAND 66/4. Conducted Spurious Plot_2 (132657ch_3MHz_QPSK_ RB 1_0)



Agilent Spec														
enter Fi	RF rea 5.0	50 Ω 15000		GHz		SEN	ISE:INT	#Avg	ALI Type: I	IGN AUTO	T	1 PM May 1 RACE 123	3456	Frequency
	04 0.0	10000		PNO: Fas IFGain:Lo		Trig: Free #Atten: 1							A A A A	Auto Tui
0 dB/div	Ref 0.	.00 dBr	n							M	kr1 3.4 -71.	21 3 0 238 d	SHz Bm	Auto Tu
og 10.0		¥2												Center Fre
20.0														5.015000000 G
0.0														
0.0														Otort En
50.0														Start Fre 30.000000 MI
50.0					1-			_						00.000000 111
0.0				•	<u>'</u>							_		
0.0		and here	-	man	~~	وبعاملهما	-	-		-	-		RMS	Stop Fre
0.0														10.00000000 Gi
tart 30 M	147										Ston	10.000	CH7	CF Ste
Res BW		z		#	VBW	3.0 MHz			Sw	eep 17	7.33 ms	(20001	pts)	997.000000 MI
KR MODE TH			Х			Y		NCTION	FUNCT	ION WIDTH	FUN	TION VALU	E A	Auto M
1 N 1 2 N 1				21 3 GHz 10 9 GHz		71.238 dE	3m 3m							
3						0.004 41								Freq Offs
5													E	01
6							_				<u> </u>			
8														
10														
						m							+	
G			_		_	_				STATU				

BAND 66/4. Conducted Spurious Plot_1 (131997ch_5MHz_QPSK_RB 1_0)



	trum Analyzer - Swept SA					
X RL	RF 50 Ω AC		SENSE:INT	#Avg Type: RMS	03:13:18 PM May 15, 2019 TRACE 2 3 4 5 6	Frequency
Senter T	Teq 15.000000	PNO: Fast	Trig: Free Run #Atten: 0 dB		TRACE 1 2 3 4 5 6 TYPE A WARNEY DET A A A A A A	Auto Tune
0 dB/div	Ref -20.00 dBr	m		MKr1	18.903 22 GHz -82.694 dBm	
						Center Free
30.0						15.000000000 GH;
40.0						Start Free
-50.0						10.000000000 GHz
60.0						Stop Free
-70.0						20.00000000 GHz
80.0					1	CF Step
90.0		and the same of the same discussion	and the second			1.000000000 GH <u>Auto</u> Mar
			······································			Freq Offse
-100						0 H
-110						
Start 10.0	00 GHz				Stop 20.000 GHz	
Res BW	1.0 MHz	#VBW	3.0 MHz	the second s	.67 ms (40000 pts)	
SG				to statu:		

BAND 66/4. Conducted Spurious Plot_2 (131997ch_5MHz_QPSK_ RB 1_0)



	ctrum Analyze									- 6 -
RL Center F	_R ⊧ req 5.0	50 Ω AC 15000000	GHz			#Avg Type	ALIGN AUTO e: RMS	TRAC	May 15, 2019 E 1 2 3 4 5 6 E A WARMAN	Frequency
0 dB/div		00 dBm	PNO: Fast • IFGain:Low	Atten: 10			M	or 1 3.486		Auto Tun
•g 10.0 20.0 30.0		¥2								Center Fre 5.015000000 G⊦
0.0 0.0 0.0			1							Start Fre 30.000000 Mi
70.0 30.0 90.0				·		~~~			RMS	Stop Fre 10.00000000 GF
	1.0 MH	X		W 3.0 MHz Y	FUNCTI		weep 17	.33 ms (2	000 GHz 0001 pts)	CF Ste 997.000000 Mi <u>Auto</u> Mi
3 4 5 6 7 8 9		3	.486 1 GHz .743 3 GHz	-73.027 dB -3.567 dB	m m 				ш	Freq Offs 01
0 1 G				m			STATU	s	•	

BAND 66/4. Conducted Spurious Plot_1 (132322ch_5MHz_QPSK_RB 1_0)



Agilent Spectrum Analyzer - Swe					
X RL RF 50 Ω Center Freq 15.0000		SENSE:INT	ALIGN AUTO #Avg Type: RMS	03:15:14 PM May 15, 2019 TRACE 2 3 4 5 6	Frequency
10 dB/div Ref -20.00	PNO: Fast ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	Mkr1	TRACE 123456 TYPE A AAAAA DET AAAAAAA 18.940 72 GHz -82.829 dBm	Auto Tune
30.0					Center Fred 15.000000000 GHz
-40.0					Start Fred 10.000000000 GHz
-60.0					Stop Freq 20.000000000 GHz
-80.0				1 FMS	CF Step 1.000000000 GHz <u>Auto</u> Mar
-100					Freq Offse 0 H:
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3	B.0 MHz	Sweep 26	Stop 20.000 GHz .67 ms (40000 pts)	
ISG			STATUS		

BAND 66/4. Conducted Spurious Plot_2 (132322ch_5MHz_QPSK_ RB 1_0)



	ctrum Analyzer							
RL Center F	_₨ req 5.01	50 Ω AC 5000000	GHz PNO: Fast	SENS	#A\	ALIGN AUTO	03:16:56 PM May 15, 20 TRACE 1 2 3 4 5 TYPE A WWW	Frequency
0 dB/div	Ref 0.0	0 dBm	IFGain:Low	#Atten: 10		M	cr1 3.559 9 GH -75.772 dBr	Auto Tun
og 10.0 20.0		¥2						Center Fre 5.015000000 GH
0.0 0.0 0.0								Start Fre 30.000000 MH
70.0 80.0 80.0	et and the transmission					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	R	Stop Fre 10.000000000 GH
	1.0 MHz	Х		W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.000 GH 7.33 ms (20001 pt FUNCTION VALUE	Z CF Ste 997.000000 MH <u>Auto</u> Ma
1 N 1 2 N 1 3 4 5 6 7 8 9			559 9 GHz 780 2 GHz	-75.772 dBr -4.082 dBr				Freq Offs 01
9 0 1 1 1 1				m		K STATU:	s	•

BAND 66/4. Conducted Spurious Plot_1 (132647ch_5MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer						
× RL RF Center Freq 15.0	50 Ω AC		SENSE:INT	ALIGN A #Avg Type: RMS	UTO 03:17:12 PM May 15, 2019	Frequency
Senter Freq 15.0	00000000	PNO: Fast	Trig: Free Run #Atten: 0 dB	#Avg Type. Rink	TRACE 1 2 3 4 5 6 TYPE A MANA A A A A	
10 dB/div Ref -20	.00 dBm			M	kr1 18.898 22 GHz -82.901 dBm	Auto Tune
30.0						Center Fred 15.000000000 GH:
-40.0						Start Fred 10.000000000 GH2
60.0						Stop Free 20.000000000 GH
80.0					1 RMS	CF Step 1.000000000 GH <u>Auto</u> Ma
-100						Freq Offse 0 H
Start 10.000 GHz		41 BW	0.0 MU-		Stop 20.000 GHz	
Res BW 1.0 MHz		#VBW	3.0 MHz		26.67 ms (40000 pts)	

BAND 66/4. Conducted Spurious Plot_2 (132647ch_5MHz_QPSK_RB 1_0)



Agilent Spectro								
enter Fre		50 Ω AC 5000000	GHz PNO: Fast	SENS	#A\	ALIGN AUTO	03:18:58 PM May 15, 20 TRACE 1 2 3 4 5 TYPE A WWW	Frequency
0 dB/div	Ref 0.00) dBm	IFGain:Low	#Atten: 10		MI	(r1 3.421 8 GH -72.906 dBr	Auto Tun
og 0.0 0.0 0.0		×2						Center Fre 5.015000000 GH
0.0 0.0 0.0								Start Fre 30.000000 Mi
0.0							R	Stop Fre 10.00000000 GF
tart 30 MI Res BW 1	SCL	X		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.000 GH 7.33 ms (20001 pt FUNCTION VALUE	Z CF Ste 997.000000 MH Auto Ma
N 1 2 N 1 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - -		<u>3.</u> 1.	421 8 GHz 711 4 GHz	-72.906 dBr -3.374 dBr	n n 			Freq Offs 01
0 1 G				III -		(statu:	s	-

BAND 66/4. Conducted Spurious Plot_1 (132022ch_10MHz_QPSK_RB 1_0)



📕 Agilent Spectrum Analyze							
RL RF Center Freq 15.0	50 Ω AC		SENSE:INT	ALIG #Avg Type: R	SN AUTO 03:19	9:14 PM May 15, 2019	Frequency
Center Freq 15.0	0000000	PNO: Fast	Trig: Free Run #Atten: 0 dB	#Avg Type. A		TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	
10 dB/div Ref -20).00 dBm				Mkr1 18.9 -8	14 72 GHz 2.851 dBm	Auto Tune
-30.0							Center Freq 15.00000000 GHz
50.0							Start Freq 10.000000000 GHz
70.0							Stop Freq 20.000000000 GHz
-80.0						1 RMS	CF Step 1.00000000 GHz <u>Auto</u> Mar
-100							Freq Offse 0 H
-110 Start 10.000 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz	Swe	Stop	o 20.000 GHz is (40000 pts)	
ISG					STATUS		

BAND 66/4. Conducted Spurious Plot_2 (132022ch_10MHz_QPSK_ RB 1_0)



Agilent Spectrum Analyzer - Swept S					
RL RF 50 Ω Center Freq 5.015000	PNO: Fast 🔸	Trig: Free Run	#Avg Type: RMS	03:20:54 PM May 15, 2019 TRACE 1 2 3 4 5 6 TYPE A MANA A A A DET A A A A A A A	Frequency
0 dB/div Ref 0.00 dBr	IFGain:Low	#Atten: 10 dB	M	r1 3.481 6 GHz -73.518 dBm	Auto Tun
••9 10.0 20.0					Center Fre 5.015000000 GH
40.0 50.0 50.0					Start Fre 30.000000 M⊦
70.0 80.0 90.0				RMS	Stop Fre 10.000000000 GF
tart 30 MHz Res BW 1.0 MHz	X		Sweep 17	Stop 10.000 GHz 33 ms (20001 pts)	CF Ste 997.000000 MH <u>Auto</u> Ma
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - -	3.481 6 GHz 1.741 4 GHz	-73.518 dBm -3.242 dBm			Freq Offs 0 H
9 10 11 sg		m	Lo STATU:	÷	

BAND 66/4. Conducted Spurious Plot_1 (132322ch_10MHz_QPSK_RB 1_0)



📕 Agilent Spectrum Analy								
RL RF Center Freq 15	50 Ω AC		SENSE:IN		ALIGN AUTO	03:21:12 PM May	15,2019	Frequency
Senter Freq 15	.00000000	PNO: Fast	Trig: Free Run #Atten: 0 dB	#AY9 1)	pe. Kino	TRACE		
10 dB/div Ref - 2	20.00 dBm				Mkr1	18.955 72 -82.397	GHz dBm	Auto Tune
30.0								Center Free 15.000000000 GH
50.0								Start Free 10.000000000 GH
70.0								Stop Fre 20.000000000 GH
80.0							RMS	CF Stej 1.00000000 GH Auto Ma
100								Freq Offse 0 H
Start 10.000 GHz		#\/B\M	3.0 MHz		Sween 26	Stop 20.00	0 GHz	
ISG	6	# V D V V	5.0 141112		Sweep Zo		o pro)	

BAND 66/4. Conducted Spurious Plot_2 (132322ch_10MHz_QPSK_ RB 1_0)



	trum Analyzer - Swept SA						
Center Fr	eq 5.015000000	PNO: Fast 🕶	Trig: Free Run #Atten: 10 dB	#Avg Ty	ALIGN AUTO ype: RMS	03:22:56 PM May 15, 2 TRACE 1 2 3 4 TYPE A WWW DET A A A A	Frequency
0 dB/div	Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB		M	(r1 3.559 4 GI -75.885 dB	Auto Tun
.og 10.0 20.0 30.0	¥2						Center Fre 5.015000000 GH
40.0 50.0 50.0							Start Fre 30.000000 MH
70.0 80.0 90.0							Stop Fre 10.00000000 GF
tart 30 M Res BW	1.0 MHz	#VBV	V 3.0 MHz Y	CONTRACTOR OF THE OWNER OF THE OWNER	Sweep 17	Stop 10.000 G 2.33 ms (20001 p	Hz CF Ste 997.000000 Mł <u>Auto</u> Ma
1 N 1 2 N 1 3 4 5 6 7 8		559 4 GHz 780 2 GHz	-75.885 dBm -3.446 dBm				Freq Offs 0 H
9 10 11 sg			m		K STATU:	S	

BAND 66/4. Conducted Spurious Plot_1 (132622ch_10MHz_QPSK_RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC Center Freq 15.00000000	0 GHz	#Avg Type: RMS	03:23:12 PM May 15, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 dBm	PNO: Fast Trig: Free F IFGain:High #Atten: 0 d	В	ТКАСЕ 123456 ТУРЕ А МИМИИ DET А А А А А А А 18.908 72 GHz -82.579 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
-60.0				Stop Freq 20.000000000 GHz
-80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 26	Stop 20.000 GHz .67 ms (40000 pts)	
MSG		to statu:		

BAND 66/4. Conducted Spurious Plot_2 (132622ch_10MHz_QPSK_ RB 1_0)



	trum Analyzer								
enter Fr	_R , eq 5.01	50 Ω AC	GHz	SENSE	#A\	g Type: RMS	03:25:01 PM May TRACE		Frequency
0 dB/div	Ref 0.0	00 dBm	PNO: Fast + IFGain:Low	#Atten: 10 c		M	cr1 3.422 3 -72.179	GHz	Auto Tun
og 10.0 20.0 30.0		2							Center Fre 5.015000000 G⊦
40.0 50.0 50.0			1-						Start Fre 30.000000 MH
70.0 30.0 30.0		-						RMS 1	Stop Fre 0.000000000 GF
tart 30 M Res BW	1.0 MHz	Х		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.000 7.33 ms (2000 FUNCTION VA	1 pts)	CF Ste 997.000000 MH to Ma
1 N 1 2 N 1 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - -		3	422 3 GHz 711 4 GHz	-72.179 dBn -3.287 dBn					Freq Offs 0 H
0 11 				m		STATU:	s	, -	

BAND 66/4. Conducted Spurious Plot_1 (132047ch_15MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				
₩ RL RF 50Ω AC Center Freq 15.00000000	0 GHz	E:INT ALIGN AUTO #Avg Type: RMS	03:25:17 PM May 15, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	Frequency
10 dB/div Ref -20.00 dBm	PNO: Fast + Trig: Free F IFGain:High #Atten: 0 d	В	1 18.945 72 GHz -82.947 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Free 10.000000000 GHz
-60.0				Stop Freq 20.000000000 GHz
-80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offsel 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
MSG		To STAT		

BAND 66/4. Conducted Spurious Plot_2 (132047ch_15MHz_QPSK_ RB 1_0)



Agilent Spectrum Analyzer - Swept SA					- 6 -
α RL RF 50 Ω AC Center Freq 5.015000000	PNO: Fast +++	SENSE:INT	ALIGN AUTO #Avg Type: RMS	03:26:59 PM May 15, 2019 TRACE 1 2 3 4 5 6 TYPE A CONTRACT A A A A A A	Frequency
IO dB/div Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB	Mk	r1 3.477 1 GHz -73.145 dBm	Auto Tun
					Center Fre 5.015000000 G⊦
80.0					Start Fre 30.000000 MH
70.0				RMS	Stop Fre 10.000000000 GF
tart 30 MHz Res BW 1.0 MHz	#VBW 3	Y FUN	Sweep 17	Stop 10.000 GHz .33 ms (20001 pts)	CF Ste 997.000000 MH <u>Auto</u> Ma
1 N 1 f 3. 2 N 1 f 1. 3 - - - - 4 - - - - 6 - - - - 6 - - - - 8 - - - - 9 - - - -	477 1 GHz -7 738 9 GHz	/3.145 dBm 3.465 dBm		E	Freq Offs 0 F
sa		m	I STATUS	+	

BAND 66/4. Conducted Spurious Plot_1 (132322ch_15MHz_QPSK_RB 1_0)



Milent Spectrum Analyzer - Swept SA				
		SE:INT ALIGN AUTO #Avg Type: RMS	03:27:16 PM May 15, 2019	Frequency
Center Freq 15.000000	PNO: Fast +++ IFGain:High #Atten: 0 or	Run	TRACE 1 2 3 4 5 6 TYPE A MANA A A DET A A A A A A	
10 dB/div Ref -20.00 dBr	m	Mkr1	18.916 22 GHz -82.869 dBm	Auto Tune
-30.0				Center Freq 15.00000000 GHz
50.0				Start Free 10.000000000 GHz
.60.0				Stop Freq 20.000000000 GHz
80.0			1 RMS	CF Step 1.00000000 GHz <u>Auto</u> Mar
-100				Freq Offse 0 H;
-110 Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 5.67 ms (40000 pts)	
ISG		STATU		

BAND 66/4. Conducted Spurious Plot_2 (132322ch_15MHz_QPSK_ RB 1_0)



	ctrum Analyzer - Swept S						
enter F	RF 50 Ω req 5.015000	AC 000 GHz PNO: Fas			ALIGN AUTO	03:29:03 PM May 15, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
0 dB/div	Ref 0.00 dBi	IFGain:Lo			MI	cr1 5.338 0 GHz -76.371 dBm	• • • • • • • • • • • • • • • • • • •
.og 10.0 20.0 30.0	*2						Center Fre 5.015000000 G⊦
40.0 50.0 60.0							Start Fre 30.000000 MH
70.0 30.0 90.0		dagtart ittilles gaat alle alle alle alle alle alle alle a	w			RMS	Stop Fre 10.00000000 GH
	1.0 MHz	Х	VBW 3.0 MHz	FUNCTIO		Stop 10.000 GHz 7.33 ms (20001 pts) FUNCTION VALUE	CF Ste 997.000000 Mł <u>Auto</u> Mł
3 4 5 6 7 8		<u>5.338 0 GHz</u> 1.779 7 GHz		m m 			Freq Offs 0 F
9 10 11 36			m		STATU	s	

BAND 66/4. Conducted Spurious Plot_1 (132597ch_15MHz_QPSK_RB 1_0)



📕 Agilent Spectrum Analyzer - S									
			SENS	E:INT	#Avg Type	ALIGN AUTO	03:29:19 P	M May 15, 2019	Frequency
Center Freq 15.00	PI	I∎Z NO: Fast ↔→ Gain:High	Trig: Free #Atten: 0 d		#AAA I Aba	E. RM3	TYF	E 1 2 3 4 5 6 A WWWWW A A A A A A A	
10 dB/div Ref -20.0	0 dBm					Mkr1	18.939 -82.4	72 GHz 96 dBm	Auto Tune
-30.0									Center Freq 15.00000000 GHz
-40.0									Start Fred 10.000000000 GHz
-60.0									Stop Freq 20.000000000 GHz
-80.0								1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100									Freq Offse 0 H:
-110 Start 10.000 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz			weep 26	Stop 20	.000 GHz 0000 pts)	
ASG						STATUS			

BAND 66/4. Conducted Spurious Plot_2 (132597ch_15MHz_QPSK_ RB 1_0)



	rum Analyzer -									
Center Fr		50 Ω AC	GHz	SEN	ISE:INT	#Avg Ty	ALIGN AUTO	TRAC	M May 15, 2019 E 1 2 3 4 5 6	Frequency
	04 0.010	/000000	PNO: Fast	Trig: Free #Atten: 1				TYF		
							M	(r1 3.422	2 8 GHz	Auto Tun
l0 dB/div -og r	Ref 0.00							-12.54	48 dBm	
-10.0		¥2								Center Fre
20.0										5.015000000 GH
30.0										
40.0							_			
50.0										Start Fre
-60.0										30.000000 MH
70.0			1							
-80.0					1				RMS	Stop Fre
para di la da	Contraction of the local division of the loc	19								10.00000000 GH
-90.0										
Start 30 M	Hz							Stop 10	.000 GHz	CF Ste
Res BW	1.0 MHz		#VB	W 3.0 MHz		ŝ	Sweep 17	7.33 ms (2	0001 pts)	997.000000 MH
MKR MODE TRO		Х		Y		ICTION FU	INCTION WIDTH	FUNCTIO	ON VALUE	<u>Auto</u> Ma
1 N 1 2 N 1		<u>3.</u> 1.	422 8 GHz 711 9 GHz	-72.548 dE	3m 3m					
3										Freq Offs
5									=	0 H
6	+				_					
8										
9										
11										
SG						_	STATU	s		ī
	_						-V			

BAND 66/4. Conducted Spurious Plot_1 (132072ch_20MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				- f X
₩ RL RF 50 Ω AC Center Freq 15.0000000		SE:INT ALIGN AUTO #Avg Type: RMS	03:31:28 PM May 15, 2019	Frequency
center Freq 15.000000	PNO: Fast +++ Trig: Free IFGain:High #Atten: 0 of	Run	TRACE 2 3 4 5 6 TYPE A WWWW DET A A A A A A	
10 dB/div Ref -20.00 dBn	1	Mkr	1 18.890 22 GHz -82.789 dBm	Auto Tune
-30.0				Center Freq 15.000000000 GHz
-40.0				Start Freq 10.000000000 GHz
-60.0				Stop Freq 20.000000000 GHz
-80.0			1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100				Freq Offset 0 Hz
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween 2	Stop 20.000 GHz 6.67 ms (40000 pts)	
ISG	<i>".</i>	STAT		

BAND 66/4. Conducted Spurious Plot_2 (132072ch_20MHz_QPSK_ RB 1_0)



Center Freq	RF 50 Ω AC 5.015000000 ef 0.00 dBm	GHz PNO: Fast IFGain:Low			#Avg Typ	ALIGN AUTO e: RMS	TRACE	May 15, 2019	Frequency
10 dB/div R 6 Log -10.0		PNO: Fast +					TYPE		
-10.0 -20.0	ef 0.00 dBm	IFGain:Low_	#Atten: 10	ab			DE	AAAAAA	
-10.0 -20.0	ef 0.00 dBm			-					Auto Tun
-10.0 -20.0	ef 0.00 dBm					MK	r1 3.472	6 GHz 33 dBm	71410 7 411
-10.0							-71.95	завш	
	[★] 2								Center Fre
									5.015000000 GH
00.0									
40.0									
50.0									Start Fre
									30.000000 MH
-60.0		1							
70.0								RMS	Stop Fre
-80.0	مدور المعدم المديد معدو	-				and the second s	a martine martine	Contraction of the	10.000000000 GH
-90.0									
Start 30 MHz	,						Stop 10.	000 GHz	CF Ste
Res BW 1.0		#VB	W 3.0 MHz		S	weep 17	.33 ms (20	0001 pts)	997.000000 MH
MKR MODE TRC SC	CLI X		Ŷ	FUNC		ICTION WIDTH	FUNCTIO		<u>Auto</u> Ma
1 N 1 f	3	472 6 GHz	-71.953 dB	3m					
2 N 1 f	ř <u>1</u>	736 9 GHz	-3.289 dB	m					Freq Offse
4									0 H
5									
7									
9									
10									
			m						
SG					_	STATUS	1		

BAND 66/4. Conducted Spurious Plot_1 (132322ch_20MHz_QPSK_ RB 1_0)



📕 Agilent Spectrum Analyzer - Swept SA				
X RL RF 50Ω AC Center Freq 15.00000000		EE:INT ALIGN AUTO #Avg Type: RMS	03:33:29 PM May 15, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref -20.00 dBm	PNO: Fast + Trig: Free F IFGain:High #Atten: 0 d	В	ТКАСЕ 123456 ТУРЕ А МИМИИ DET А А А А А А А 18.935 47 GHz -82.472 dBm	Auto Tune
-og -30.0				Center Fred 15.000000000 GH:
50.0				Start Fred 10.000000000 GH;
70.0				Stop Fred 20.000000000 GH2
80.0			1 RMS	CF Stej 1.000000000 GH <u>Auto</u> Ma
100				Freq Offse 0 H
Start 10.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 26	Stop 20.000 GHz .67 ms (40000 pts)	
ISG		STATUS		

BAND 66/4. Conducted Spurious Plot_2 (132322ch_20MHz_QPSK_ RB 1_0)



	trum Analyzer -									
enter Fi	R⊧ 9 req 5.015	οΩ AC 5000000	GHz PNO: Fast		Bun	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M May 15, 2019 E 1 2 3 4 5 6 E A WWWWW	Frequency
0 dB/div	Ref 0.00	dBm	IFGain:Low	#Atten: 10			M	DE (r1 5.33 7		Auto Tun
og 10.0 20.0 30.0		¥2								Center Fre 5.015000000 G⊦
40.0 50.0 60.0										Start Fre 30.000000 M⊦
70.0 80.0 90.0			*****		1			ر الليور بالرينية الارت	RMS	Stop Fre 10.00000000 GF
KR MODE TR		X		W 3.0 MHz Y			weep 17	.33 ms (2	.000 GHz 0001 pts)	CF Ste 997.000000 MH <u>Auto</u> Ma
1 N 1 2 N 1 3 4 5 5 6 7 8			337 5 GHz 779 7 GHz	-76.829 dB -4.556 dB	m				III III	Freq Offs 0 F
9 10 11 56				III.			STATU	5	•	

BAND 66/4. Conducted Spurious Plot_1 (132572ch_20MHz_QPSK_ RB 1_0)



	m Analyzer - Swept SA					
Center Fre	RF 50 Ω AC	0 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS		Frequency
10 dB/div	Ref -20.00 dBm	PNO: Fast ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	Mkr	TRACE 1 2 3 4 5 6 TYPE A AAAAAA 1 18.906 47 GHz -82.309 dBm	Auto Tune
-30.0						Center Freq 15.00000000 GHz
40.0						Start Fred 10.000000000 GHz
-60.0						Stop Free 20.000000000 GHz
-80.0					1 RMS	CF Step 1.00000000 GHz <u>Auto</u> Mar
-100						Freq Offse 0 H:
Start 10.000		#VBW	3.0 MHz	Sweep 2	Stop 20.000 GHz 26.67 ms (40000 pts)	
ASG				I STAT		

BAND 66/4. Conducted Spurious Plot_2 (132572ch_20MHz_QPSK_ RB 1_0)



10. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1905-FC033-P