

Appendix for Testreport



Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[MHz]	Verdict
TM1 _Ch0	L	2402	0.67	pass
TM1 _Ch19	М	2440	0.67	pass
TM1 _Ch39	Н	2480	0.67	pass



Part II - Test Plots

2.1 TM1_CH0_L@Ant 1





2.2 TM1_CH19_M@Ant 1

Agilent Spectrum	Analyzer - Oco	cupied BW										
Cepter Fred	RF 50Ω		7	SE Center F	ENSE:INT Frea: 2.4400	00000	GHz	ALIGN AUTO	06:18:28 Pf Radio Std:	May 03, 2017 None	Fr	equency
Center Free	4 2.44000		1Z +	Trig: Fre	e Run	Av	g Hold:	10/10				
		#IF	Gain:Low_	#Atten: 4	tu aB				Radio Dev	ICE: BIS		
10 dB/div	Ref Offset Ref 25.0	1 dB 0 dBm										
Log												Contor From
5.00											244	
-5.00					<u> </u>						2.44	0000000 GH2
-15.0												
-25.0							\mathbf{h}					
-35.0								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
-45.0	D.O. Handard	<u></u>						<u> </u>	Mart Area a			
-55.0	under and the								*******	Marcan balance		
-65.0												
Center 2.44 #Res BW 10	GHZ 00 kHz			#V	BW 300	kHz			Swe	an 4 IVIHZ ep 2 ms		CF Step
					Tatal			e 50			<u>Auto</u>	Man
Occupie	ed Band	width			Total F	owe		0.59	aBm			
		1.08	43 N	1Hz								Freq Offset
Transmit	Freq Err	or	16.992	kHz	OBW F	owe	r	99	.00 %			0 Hz
x dB Bar	ndwidth		671.1	kHz	x dB			-6.0	00 dB			
MSG								STATUS				



2.3 TM1_CH39_H@Ant 1

Agilent Spectrum An	alyzer - Occ	upied BW											
Center Freq	50 Ω 2.48000	AC 0000 GH	z		SEN Center Fr	NSE:INT req: 2.48000	00000	GHz		06:24:16 P Radio Std:	M May 03, 2017 None	Fi	equency
		#IFC	Gain:Low	#	Atten: 40	≥ Run 0 dB	AV	ginola:	10/10	Radio Dev	ice: BTS		
10 dB/div	Ref Offset Ref 25.0	1 dB 0 dBm											
15.0												2.49	Center Freq
-5.00					~~~	$\sim \sim$						2.40	0000000 GH2
-15.0								A A A A A A A A A A A A A A A A A A A					
-35.0			~					,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
-45.0 -55.0	and the second	<u>/</u>								and the second of the second s	maria		
-65.0													
Center 2.48 G #Res BW 100	iHz kHz				#VE	3W 300 I	۲			Sp Swe	an 4 MHz ep 2 ms		CF Step 400.000 kHz
Occupied	Band	width				Total P	owe	r	5.26	dBm		<u>Auto</u>	Man
		1.08	57 N	ЛНz	-								Freq Offset
Transmit F	req Err	or	16.23	6 kHz	z	OBW P	owe	ər	99	.00 %			0 Hz
x dB Band	width		669.9	9 kHz	Z	x dB			-6.	00 dB			
MSG									STATUS	5			



Appendix B: Occupied Bandwidth

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Occupied Bandwidth [MHz]	Verdict
TM1 _Ch0	L	2402	1.07	pass
TM1 _Ch19	М	2440	1.07	pass
TM1_Ch39	Н	2480	1.07	pass



Part II - Test Plots

2.1 TM1_Ch0_L@Ant 1





2.2 TM1_Ch19_M@Ant 1

Agilent Spectrum Analyzer - O	ccupied BW										
Cepter Fred 2 //00		7	SEN Center Fr	ISE:INT rea: 2.44000	00000 GH	 Hz	LIGNAUTO	06:18:35 PM Radio Std:	1 May 03, 2017 None	Fr	requency
		→ •	Trig: Free	Run	Avg F	-lold:	10/10	Dedie Deu	DTC		
	#IF	Gain:Low	#Atten: 40	J dB				Radio Dev	ICE: BIS		
Ref Offse 10 dB/div Ref 25.	et1 dB 00 dBm										
15.0											Contor From
5.00										2 44	0000000 GHz
-5.00										2.44	0000000 0112
-15.0			$\sim \sim $	how							
-25.0		<u>م</u> ر			- M						
-35.0						հ					
-45.0	- A Marine	\/				\checkmark					
-55.0	×	<u> </u>						hypersection	Why dra		
-65.0									••••••••••••••••••••••••••••••••••••••		
								0.5			
#Res BW 20 kHz			#VE	W 62 kH	Ηz			Sweel	an 4 IVIHZ 5 9.6 ms		CF Step
Occupied Ban	dwidth			Total P	ower		6.26	dBm		<u>Auto</u>	400.000 KHZ Man
	4 06	OC M	LJ - J								
	1.00		ΠΖ								Freq Offset
Transmit Freq Er	ror	15.833	kHz	OBW P	ower		99	.00 %			0 Hz
x dB Bandwidth		1.323	MHz	x dB			-26.0	00 dB			
MSG							STATUS				



2.3 TM1_Ch39_H@Ant 1

Agilent Spectrum	Analyzer - Occ	upied BW											
	RF 50Ω		7		SEN Center Fr	ISE:INT ea: 2.4800	000000	GHz	ALIGNAUTO	06:24:23 PM Radio Std:	⁴ May 03, 2017 None	Fi	requency
Center Free	q 2.40000	0000 Gr		→ → (Trig: Free	Run	Av	g Hold	:>10/10	De die Deer	DTC		
		#IFC	Gain:Low		#Atten: 4u	a B				Radio Dev	ICE: BIS		
10 d <u>B/div</u>	Ref Offset Ref 25.0	1 dB 0 dBm											
Log													Contor From
5.00												2 / 8	
-5.00												2.40	0000000 0112
-15.0					᠕᠕᠕	hanna							
-25.0				\mathcal{N}^*			~~~	L					
-35.0			_/					$\mathbb{V}_{\mathcal{V}}$					
-45.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						L,	M				
-55.0	a lland a land a land	~	۲						· · · · ·	M _~~	N		
-65.0	Jor F									· · · ·	. male and a second		
Center 2.48	GHZ				#\/B	M 62 k	Hz			Spa Swee	an 4 MHz		CF Step
THE SHOW Z	0 KH2				#¥E	WW 02 N	112			OWCC	5 5.0 1115	Auto	400.000 kHz
Occupie	ed Band	width				Total I	Powe	r	4.90	dBm		Auto	Iviari
		1.06	88 N	ЛH;	7								
							_						
Transmit	Freq Err	or	15.21	3 kH	Z	OBW	Powe	er	99	0.00 %			0 112
x dB Bar	ndwidth		1.326	5 MH	z	x dB			-26.	00 dB			
MSG									STATUS	5			



Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
TM1	CH0,CH19,CH39	62.2

Part II - Test Plots

2.1 TM1



Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Power[dBm]	Verdict
TM1 _Ch0	L	2402	-1.96	pass
TM1 _Ch19	М	2440	0.06	pass
TM1 _Ch39	Н	2480	-1.31	pass



Part II - Test Plots

2.1 TM1_Ch0_L@Ant 1

Agilent Spectru	ım Analyzer - Ti	he duty cyc	le factor 2.0	6 dB a	dded.								
Center Fr	RF 50 9	Ω ΑC	GHz		SEN	ISE:INT	#A\	/g Tγp	ALIGNAUTO e: RMS	05:31:25 F TRA	M May 10, 2017	Fr	requency
	04 2.4020		PNO: Wide IFGain:Low	 /	Trig: Free Atten: 38	Run dB	Avş	jHold:	500/500	TY D			
10 dB/div	Ref Offset 3 Ref 30.00	.06 dB dBm						Ba	Mkr1 Ind Pow	2.402 (/er -1.9	00 GHz 59 dBm		Auto Tune
20.0 10.0 0.00												(2.40	Center Freq 2000000 GHz
-10.0 -20.0 -30.0					han h	1	~~~	~				2.40	Start Freq 0000000 GHz
-40.0 -50.0 -60.0			w						/~~~	`		2.40	Stop Freq 4000000 GHz
Start 2.400 #Res BW 2	0000 GHz 20 kHz		#V	BW 6	02 kHz*				S Sweep	top 2.40 12.3 ms	4000 GHz (601 pts)		CF Step 400.000 kHz
MKR MODE TRI	C SCL	× 2.402	000 GHz	-	۲ 14.100 dE	FU Sm Ban	NCTION d Powe	FUI	NCTION WIDTH	FUNCTI	0N VALUE 1.959 dBm	<u>Auto</u>	Man
3 4 5 6 7 8 9 10 11 12													Freq Offset 0 Hz
MSG									STATUS				

2.2 TM1_Ch19_M@Ant 1



2.3 TM1_Ch39_H@Ant 1



Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	PD[MHz]	Verdict
TM1 _Ch0	L	2402	-16.80	pass
TM1 _Ch19	М	2440	-14.74	pass
TM1 _Ch39	Н	2480	-16.14	pass



Part II - Test Plots

2.1 TM1_Ch0_L@Ant 1





2.2 TM1_Ch19_M@Ant 1





2.3 TM1_Ch39_H@Ant 1



Appendix F: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_Ch0	L	2402	-2.17	-51.36	pass
TM1_Ch39	Н	2480	-1.47	-51.83	pass



Part II - Test Plots

2.1 TM1_Ch0_L@Ant 1

Agilent	Spec	trum	Ana	ılyzer - Sw	ept SA											
lxi rl			RF	50 Ω	AC			SEN	ISE:INT			ALIGN AUTO	05:52:03 P	M May 03, 2017		Frequency
Cent	er	Fre	q 2	2.39250	00000	GHz			_	A	/g Type	: Log-Pwr	TRA	^{CE} 123456		Frequency
						PNO: Wide	e 🛶	Atten: 40	a Run	AV	ginoia	10/10	D	ETPPPPP		
						IFGain:Lov	w	Attent 40					Auto T			
		F	Ref	Offset 1	dB							Mkr	2 2.390	00 GHz		Autorune
10 dB	3/div	İ	Ref	30.00	dBm								-51.3	64 dBm		
Log [
20.0			+													Center Freq
10.0			_										<u> </u>		2	.392500000 GHz
0.00																
0.00													μ ^λ η			
-10.0 -			+													Start Fred
-20.0			_										ļ	<u> </u>	2	20000000 CU-
20.0														20.17 dBm	2	
-30.0			Ŧ										p.	1		
-40.0			+					2					<u> </u>			01
-50.0	Mary	N. Dara	-	hand a bill	here's and the first	ปีประกอบประกอ		h honderla and	and starting the start	ور المراجع المراجع		the state of the Arriver State	and the second s	Long to Large		StopFreq
60.0															2	.405000000 GHz
-00.0																
Start	23	200	10 0	CH7									Stop 2.4	0500 CHz		05.04++
#Rec	: R1/	11	in i	6112 kH7		#\	/BW/	300 kHz				#Sween	100 0 ms	(601 nts)		
<i>"</i> "TG-4-	_		~	112			1-11					/oncep	TVViVIIII	(001 pt3)	Aut	2.500000 MHZ
MKR M	IODE	TRC	SCL		×			Y		FUNCTION	FUN	ICTION WIDTH	FUNCTI	DN VALUE	<u>/ (u</u>	<u>.o</u> marr
1	N	1	f		2.40	02 00 GHz		-2.170 dE	3m							
3			-		2.0			-01.004 ut	3111							Freg Offset
4																0 Hz
5														∃		0112
7																
8																
9																
10	\rightarrow															
<														>		
MSG		_										STATU	3			
Woo			_									STATU				



2.2 TM1_Ch39_H@Ant 1





Appendix G: Unwanted Emissions into Non-Restricted Frequency

Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" referrers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = $10 \times lg(100 \ [kHz]/narrower RBW \ [kHz])$. As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30[dBm],see test plots for detailed".

Test Mode	Test Channel	Frequency[MHz]	Pref[dBm]	Puw[dBm]	Verdict
TM1_Ch0	L	2402	-2.15	<limit< td=""><td>pass</td></limit<>	pass
TM1_Ch19	М	2440	-0.07	<limit< td=""><td>pass</td></limit<>	pass
TM1_Ch39	Н	2480	-1.46	<limit< td=""><td>pass</td></limit<>	pass

Part I - Test Results



Part II - Test Plots

2.1 TM1_Ch0_L@Ant 1

Pref:

Agilen	t Spectr	um Analy	zer - Sw	ept SA									
Cen	ter Fr	RF req 2.4	50 Ω 40200	AC	GHz	SEI	NSE:INT	Avg Type	ALIGNAUTO : Log-Pwr	05:49:58 PM TRAC	4 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	F	requency
					PNO: Wide G	Trig: Free Atten: 30	e Run I dB	Avg Hold:	>1000/1000	DE			
10 dE	3/div	Ref Of Ref 2	ffset 1 o 2 0.00 o	iB d Bm					Mkr1	2.402 0 -2.1	20 GHz 55 dBm		Auto Tune
10.0												2.40	Center Freq 2000000 GHz
0.00 -10.0						\sim	\					2.40	Start Freq 00000000 GHz
-20.0												2.40	Stop Freq 4000000 GHz
-30.0				/					\frown			Auto	CF Step 400.000 kHz Man
-50.0 -60.0	~Jrylor	Ingeneration of the second sec	لىمى رايىغومى مى مەركى							Jones of the second sec	Wwwwwww.lbm		Freq Offset
-70.0													0112
Star	t 2.40	0000 (GHz						Ś	 Stop 2.404	1000 GHz		
#Re	s BW	100 kl	IZ		#VBV	/ 300 kHz			Sweep	2.000 ms	(601 pts)		
MSG									STATUS	3			



Puw:

Agilen	t Spectru	ım Anal	yzer - Swe	ept SA									
<mark>IXI</mark> RI Star	t Erec	RF 1901	50Ω, 00 kHz	ADC		SEN	NSE:INT	Avg Type	ALIGNAUTO	06:47:02 PM TRAC	4 May 03, 2017 E 1 2 3 4 5 6	F	requency
10 de	Bidiy	Ref C	Offset 1 d	IB Rm	PNO: Close 🖵 IFGain:Low	Trig: Free #Atten: 40	e Run) dB	Avg Hold:	>100/100 N	TYF DE 1kr1 12.9 -69.0	995 kHz 43 dBm		Auto Tune
-10.0												•	Center Freq 79.500 kHz
-20.0 -30.0													Start Freq 9.000 kHz
-40.0 -50.0											-52.16 dBm		Stop Freq 150.000 kHz
-60.0 -70.0		ᡙᠬ	1ላ- ፈካ	J B. 6		0.47.5				n.		<u>Auto</u>	CF Step 14.100 kHz Man
-80.0			4 004 FRU	» (ሌብ ላ ች. ላ	᠃ᡣ᠋ᠿᡗᡶᡊᡊ᠊ᢩᢧᡗ᠂ᡁᢉᠬ᠄᠂᠂	ᢦ ^ᡣ ᠃ᢩ᠆ᡁᡏᢛᢇ᠘᠉ᢩᢕᡳᢔ	ᢂ᠂ᢅᡁᡔᡃᠧᠾᢇᡁᡘ	ᡃᠬᠬᡨᡃᡳᠧᢇᡟᠾᠾ	ᡟᠾᡗᠬᠬᠮᡃᢑᢛᠬᡟ		ᢂᢉᠺᡗ		Freq Offset 0 Hz
-90.0 Star	t 9.00	kHz_								Stop 15	0.00 kHz		
#Re	s BW 1	1.0 kl	lz		#VBW	3.0 kHz			#Sweep	100.0 ms	(601 pts)		
MSG									STATU	<mark>s 🦺</mark> DC Cοι	pled		



Agilen	t Spectru	m Anal	yzer - Swe	ept SA									
Cen	ter Fr	RF eq 1	50 Ω 5.0750	<u>∧</u> dc 000 Mi	Ηz	SEN	ISE:INT	Avg Type	ALIGNAUTO	05:50:38 PN TRAC	1 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	Fre	quency
					PNO: Wide 🕞 IFGain:Low	#Atten: 40	e Run) dB	Avg Hoia:	>50/50	DE			
10 dE	3/div	Ref 0 Ref ∶	offset1 c 20.00 c	iB IBm					N	1kr1 6.3 -62.9	79 MHz 36 dBm		Auto Tune
10.0												C	enter Freq
10.0												15.0	075000 MHZ
0.00													Start Freq
-10.0													150.000 kHz
-20.0													Stop Freq
-30.0												30.0	000000 MHz
-40.0													CF Step
40.0											-42.16 dBm	2.9 <u>Auto</u>	985000 MHz Man
-50.0												_	
-60.0	lehih dikat , ka	يا بايرو	ւ հետև առ		n and an h annad ta dad	e ka tha e da taiba	Hetsaliset	and to at the state of	Innen alterte er st	եսես, անհայ		F	req Oπset 0 Hz
-70.0													
a 1										6 4 0	0.00 6411-		
star #Re:	t 150 k SBW 1	(HZ 10 kH	z		#VBW	30 kHz			Sweep 2	stop 3 85.4 ms (0.00 MHZ 3001 pts)		
MSG									STATUS	1 DC Cou	pled		



Agilen	t Spectru	n Analyzer	- Swept SA								
Cen	ter Fre	RF 1:16	50 Ω AC	GHz	SEN Trig: Free	Run	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >50/50	05:50:57 PM TRAC TYF	1 May 03, 2017 E <mark>1 2 3 4 5 6</mark> E M MMMM	Frequency
				IFGain:Low	#Atten: 40) dB		Male	DE		Auto Tune
10 dE	3/div	Ref Offse Ref 20.0	t1 dB)0 dBm					IVIKI	-48.0	76 GHz 58 dBm	
3											Center Freq
10.0											1.165000000 GHz
0.00											Start From
-10.0											30.000000 MHz
-20.0											Stop Freq
-30.0										-32.16 dBm	2.500000000 GHZ
-40.0											CF Step
50.0										↓ 1	<u>Auto</u> Man
-30.0			in a literative a second statement of the second statement of the second statement of the second statement of t		i data di agan di ada dat Manan Ingenerati angenerati	ال و الله أو الله (فروبالية). معرف المراجع المراجع المراجع		i i din su su su su su Tra constanti su		a para da sense da se a la fi	Energ Offend
-60.0											0 Hz
-70.0											
Star #Res	t 30 MI s BW 1	lz 00 kHz		#VBW	/ 300 kHz			Sweep 2	Stop 2 217.1 ms (.300 GHz 8001 pts)	
MSG								STATU	s		



Agilen	t Spectru	n Analyzer -	Swept SA								
Cen	ter Fre	eq 2.350	0000000 G	Hz	Trig: Free	Run	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >200/200	05:51:08 PM TRAC TYP	I May 03, 2017 E 1 2 3 4 5 6 E M WWWWW	Frequency
				FGain:Low	#Atten: 40) dB		MI	DE		Auto Tune
10 dE	3/div	Ref Offset Ref 20.0	1 dB 0 dBm						-49.20	60 dBm	
209											Center Freq
10.0											2.350000000 GHz
0.00											Start From
-10.0											2.300000000 GHz
20.0											
-20.0											Stop Freq 2 40000000 GHz
-30.0										-32:16 dBm	
-40.0											CF Step 10.000000 MHz
-50.0				∮ ¹				1		र कर की मंग्री कर्म	<u>Auto</u> Man
	pthone of the second	4-tn/kqt√lqg ⊷(qt	⋪ ᢢ ᡅ _ᠯ ᠳᡁᡣᢪᠮᢜᡘᡀᡀᢅᢍᠯᠯᢔ	ht had and the set	արաքն եր հերթարվերին անդրություններին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հ Արտաքներին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթա Արտաքներին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթարվերին հերթա	HEI LAPPER PARA	al montheast	արդությունը՝ գել լ	ANYO'L DATION OF A DAT	VLATA'sta've Arrie	Freg Offset
-60.0											0 Hz
-70.0											
Stor	+ 2 200								Stop 2.40		
alai #Res	s BW 1	00 GHZ 00 kHz		#VBW	/ 300 kHz			Sweep 9	9.600 ms (1000 GH2 1001 pts)	
MSG								STATU	S		



Agilen	t Spectru	ım Anal	yzer - Sw	ept SA								
Cen	ter Fr	RF eq 2.	50 Ω 49175	AC	GHz	SEM	NSE:INT	Avg Type	ALIGN AUTO	05:51:17 PM TRAC	4 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	Frequency
					PNO: Wide C	Trig: Free #Atten: 40	eRun)dB	Avg Hold:	>200/200	TYF Di	E MWWWWWW T P P P P P P	
		Ref C	offset 1 o	B					Mkr1 2	.484 05	0 0 GHz	Auto Tune
10 dE Logi	3/div	Ref	20.00 (lBm						-49.7	26 dBm	
Ű												Center Freq
10.0												2.491750000 GHz
0.00												
U.UU												Start Freq
-10.0												2.483500000 GHz
-20.0												Stop Freq
20.0												2.50000000 GHz
-30.0											-32:16 dBm	
-40.0												CF Step
	1											Auto Man
-50.0	W	_Մ վիշնե	ՠՠՠՠՠ	ally monthly	Ուսերեր	W. W. Marthand	-	_Ն ունչուրչ Դունչուրչ Արդուրչ	ᡅᠬ᠕ᠰ᠁	เป็น เป็น เป็น เป็น เป็น เป็น เป็น เป็น	maria Marildou	
0.03-												Freq Offset
-00.0												0 Hz
-70.0												
Star	t 2.483	3500	GHz	<u> </u>					<u></u>	stop 2.500	0000 GHz	
#Re:	s BW 1	100 k	Hz		#VB	N 300 kHz			Sweep	1.600 ms	(601 pts)	
MSG									STATUS	3		



Agilen	t Spectro	um An	alyzer - Sw	ept SA								
Cen	ter Fr	RF eq	50 Ω 14.5000	AC 000000	GHz	SEN	ISE:INT	Avg Type	ALIGN AUTO	05:51:49 PM TRAC	May 03, 2017	Frequency
				P IF	NO: Fast 🕞 Gain:Low	#Atten: 40) dB	Avginoia.	10/10	DE	PPPPP	A
10 dE	3/div	Ref Ref	Offset 1 of 20.00 o	iB iBm					M	kr1 25.5 -37.6	79 GHz 67 dBm	Auto I une
10.0												Center Freq
0 00												
-10.0												Start Freq 2.500000000 GHz
-20.0												Stop Freg
-30.0											-32:16 Tm	26.500000000 GHz
-40.0	. 14		وان جدر .			an he till and	فسنالأبن					CF Step 2.40000000 GHz <u>Auto</u> Man
-50.0	talitiyi ⁿ a						ام ريانيو ويكني ميكنيون. ا					
-60.0												Freq Offset 0 Hz
-70.0												
Star	+ 2 50							~		Stop 2	6 50 CH7	
#Res	s BW	100	kHz		#VBW	300 kHz			Sweep	2.294 s (8001 pts)	
MSG									STATUS	5		



2.2 TM1_Ch19_M@Ant 1

Pref:

Agilen	t Spectru	ım Analyzer - Sw	ept SA								
LXI RL	tor Er	RF 50 Ω		1	SEN	ISE:INT			06:19:41 PM	4 May 03, 2017	Frequency
Cen	ler Fr	eq 2.44000	P	12 NO: Wide 😱	Trig: Free	Run	Avg Hold:	>1000/1000	TY		
			IF	Gain:Low	Atten: 30	dB			Di		
		Ref Offset 1 o	зB					Mkr1	2.440 0	13 GHz	Auto Tune
10 dE	3/div	Ref 20.00 (dBm						-0.0	67 dBm	
- • g											Contor From
10.0											
						. 1					2.44000000 GH2
0.00						<u>)</u>					
					\sim	$\sim \sim$					Start Freq
-10.0				ļ.,	p P P	<u>^</u>	No.				2.438000000 GHz
							2				
-20.0											
				/							Stop Freq
-30.0				/			<u>ــــــــــــــــــــــــــــــــــــ</u>				2.442000000 GHz
			/					\sim			
-40.0			/					\ \			CF Step
			Į					1	×L,		400.000 kHz
-50.0		all and a second							Land and a start	0	<u>Auto</u> Wan
	and and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								a current and	
-60.0											Freq Offset
											0 Hz
-70.0											
Start #Doc	2.43	3000 GHZ		#\/D\A	200 64-			Sween	Stop 2.442	2000 GHz	
#Ref	5 6 9 9			#VBW	JUU KHZ			sweep	2.000 ms	(out prs)	
MSG								STATUS	5		



Puw:

Agilent Spect	trum Analyzer -	Swept SA									
Start Fre	RF 5	οΩ <u>A</u> DC Hz		SEN	ISE:INT	Avg Type	ALIGNAUTO	06:45:54 PM TRAC	4 May 03, 2017 E 1 2 3 4 5 6	Fr	equency
	Ref Offset	1 dB	PNO: Close 😱 IFGain:Low	Trig: Free #Atten: 40	e Run) dB	Avg Hold:	>100/100	TYF DE / kr1 10.4	™™™™ ™ 10 kHz		Auto Tune
10 dB/div	Ref 0.00	dBm						-68.4	53 dBm		
-10.0										(Center Freq 79.500 kHz
20.0											
-20.0											Start Freq 9.000 kHz
-40.0									-50.07 dBm		Stop Freq 150.000 kHz
-30.0											
-60.0										<u>Auto</u>	CF Step 14.100 kHz Man
-70.0 ¥~~~~~	ᠬᡙᢆᡫ᠊᠕ᡔᠬᢦᡀᠬᡢ	᠕ᡁ᠕᠕᠆ᠬ	ᠾᢇᠰᢔᢈᢑᡔᠧᠬ᠈ᡗ᠋᠋ᡰᡇ	᠉᠕ᢧ᠕ᢧᠬᡘ	www.	ᠬ᠕᠕ᠬᠬᡀ	ᡁᠰᢧᡊᡀᡊᡃᢆᠧᡡ	n Mann			
-80.0											Freq Offset
											0 Hz
-90.0											
Start 9.0 #Res BW	U KHZ 1.0 kHz		#VBW	3.0 kHz			#Sweep	Stop 15 100.0 ms	0.00 kHz (601 pts)		
MSG							STATU	<mark>s 🚹</mark> DC Cοι	pled		



Agilen	t Spectru	um Ar	alyzer - S	wept SA									
Cen	ter Fr	RF ea	50 15.075	Ω <u>/1</u> dc 1000 N	٨Hz		SEN	JSE:INT	Avg Type	ALIGNAUTO :: Log-Pwr	06:20:20 PM TRAC	1 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	Frequency
					PN IFC	O: Wide 🖵 Jain:Low	Trig: Free #Atten: 40	e Run)dB	Avg Hold:	>50/50	TYF	E M WWWWWW T P P P P P P	
		Daf	Offect 1	AB							Mkr1 4	109 kHz	Auto Tune
10 dE	3/div	Re	f 20.00	dBm							-63.5	10 dBm	
Log													Center Fred
10.0		-+											15.075000 MHz
0.00													Start Freg
-10.0													150.000 kHz
-20.0													Stop Frea
													30.000000 MHz
-30.0													
-40.0												-40.07 dBm	CF Step
													2.985000 MHz Auto Man
-50.0													
<u></u>	<u>, 1</u>												Freq Offset
-60.0		ս են	a		aalaa	اللاية بين باران الار	بالمعالية الم			dan ku sa sa	have to see the s	. المليقات .	0 Hz
-70.0												and the second secon	
Star	t 150	kHz									Stop 3	0.00 MHz	
#Re	s BW	10 k	Hz			#VBW	30 kHz			Sweep 2	85.4 ms (3001 pts)	
MSG										STATUS	LDC Cou	pled	

Agilen	gilent Spectrum Analyzer - Swept SA											
(XI RI Cen	ter Fr	RF 50	ΩΩ AC	GH ₇	SEN	NSE:INT	Avg Type	ALIGNAUTO : Log-Pwr	06:20:39 PM TRAC	1 May 03, 2017 E 1 2 3 4 5 6	Frequency	
10 d	Bidiv	Ref Offset	1 dB	PNO: Fast IFGain:Low	Trig: Free #Atten: 40	e Run) dB	Avg Hold:	>50/50 Mkr	TYF DE 1 2.181 -48.4	68 GHz 88 dBm	Auto Tune	
10.0											Center Freq 1.165000000 GHz	
0.00 -10.0											Start Freq 30.000000 MHz	
-20.0 -30.0										-30.07 dBm	Stop Freq 2.300000000 GHz	
-40.0 -50.0							d she had a she h	the attless to the cat	n h e a still a litter besta der	1	CF Step 227.000000 MHz <u>Auto</u> Man	
-60.0	d Halan Managaran Managaran Managaran Managaran Managaran M	in (i) in (see the bin see of a second second		d an tra filitika an bit bit dan sa Kanang ng pangka kan bin bit	in et del transmissione de la companya de la compan A companya de la comp A companya de la comp		n prine menonen en	ing for a fin the second s	a posta kan and a posta setta	en antisticae and a condi	Freq Offset 0 Hz	
-70.0 Star	t 30 M	Hz IOO kHz		#\/B\A	300 kHz			Sween -2	Stop 2	.300 GHz		
MSG	5-044	100 KH2		# V D V	500 KHZ			STATUS		soor prs)		

Agilen	it Spectru	m Analyzer - Sv	wept SA								
LXI RI	tor Fr	RF 50 9			SEN	ISE:INT	Ava Type		06:20:49 PM	1 May 03, 2017	Frequency
Cer		aq 2.3500	00000 G	PNO: Fast 🕞 Gain:Low	Trig: Free #Atten: 40	e Run) dB	Avg Hold:	>200/200	TYF De	E MWWWWW T P P P P P P	Auto Tupo
10 dE	3/div	Ref Offset 1 Ref 20.00	dB dBm					M	kr1 2.370 -49.2	8 5 GHz 15 dBm	Auto Tune
-• 9 10.0											Center Freq 2.35000000 GHz
0.00											
-10.0											Start Freq 2.300000000 GHz
-20.0										20.07.dBm	Stop Freq 2.40000000 GHz
-30.0										-30.07 dBm	CF Step
-40.0								↓ ¹			10.000000 MHz <u>Auto</u> Man
-60.0	/ ` ///////	vlam ``.la-towa'i.]'	₩₩₽° ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	_เ กษณ์ เมืองสำนับสายการการการการการการการการการการการการการก	ĸŧġrţĸŀĸĸĸſſ'nĮĸţſĸIJ	Marter Lot pol of all	አም ቀ ግሪ የፋግሪ ንዚያንያ	hjlyyl-ylan-difaylu	tone frankrighter a zavelj	AU-LANNOVICAN-Day	Freq Offset
-70.0											0 Hz
Star	+ 2 200								Stop 2.40		
star #Re	s BW 1	00 GH2 00 kHz		#VBW	300 kHz			Sweep 9	9.600 m <u>s (</u>	1000 GH2 1001 pt <u>s)</u>	
MSG								STATU	s		

Agiler	it Spectru	m Analyzer -	Swept SA								
(X) R Cen	ter Fr	RF 5	0Ω AC 750000	GHz	SEN	ISE:INT	Avg Type	ALIGNAUTO :: Log-Pwr	06:20:58 PM TRAC	4 May 03, 2017 E 1 2 3 4 5 6	Frequency
10 di	Bidiy	Ref Offset	1 dB 0 dBm	PNO: Wide G	Trig: Free #Atten: 40	e Run) dB	Avg Hold:	>200/200 Mkr1 2	.499 312 -49.6	2 5 GHz 85 dBm	Auto Tune
10.0											Center Freq 2.491750000 GHz
0.00 -10.0											Start Freq 2.483500000 GHz
-20.0 -30.0										-30.07 dBm	Stop Freq 2.500000000 GHz
-40.0										∮ 1	CF Step 1.650000 MHz <u>Auto</u> Man
-60.0	᠖ _ᡇ ᡣᡁᠾᢧᠬ	w.how.ro.1 ⁶⁶ wr	ᡁᡊᡝᠿᡎᠯᡬᢇᠧ᠇	ᢧᡁᢧᡟᡗᡰᡎᠯ᠘ᡑᢉᢦᡵᠯ᠆᠇ᠼ᠇ᢧᢦᠶ	^{אי} ריין אילהיידיייעראן	๚ _{ุก} ฝ _{าแกเ} กาะจะเ	ԿՄԱ _{Նմ} Ո _Ն ԴԴ	᠋ᠴᠾᠧᡁᡟᠯᢦᡊᢧᠬᡗᢜᡳ᠇	QMQ+Q19-20/9-7	ᡅ᠆᠕ᡁᡗᡃ᠇ᢪ	Freq Offset 0 Hz
-70.0	4 2 4 9								Non 2 500		
star #R <u>e</u>	t 2.48: s BW 1	500 GHZ 100 kHz		#VBW	300 kHz			Sweep	1.600 <u>ms</u>	(601 pt <u>s)</u>	
MSG								STATUS	3		



Agilen	t Spectr	um An	alyzer - Sw	ept SA								
Cen	ter Fr	RF Ceq	50 Ω 14.5000	AC 00000 G	iHz	SEN	ISE:INT	Avg Type	LIGN AUTO	06:21:30 PM TRAC	4 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	Frequency
				P IF(NO: Fast 🖵 Gain:Low	#Atten: 40	e Run) dB	Avg Hola:	10/10	DE		
10 dE	3/div	Ref Ref	Offset 1 of 20.00 o	iB jBm					Μ	kr1 25.4 -37.2	77 GHz 51 dBm	Auto Tune
Log												Querter Free
10.0												Center Freq 14.500000000 GHz
0.00												Start Freq
-10.0												2.500000000 GHz
-20.0												Stop Freq
-30.0											-30.07 dBm	26.500000000 GHZ
40.0											a solar litte	CF Step
-40.0							لەر ، ر ، والىغاللارلىر ا			in the second second second		2.40000000 GHz
-50.0	a the Na	in dia	ia, shi kika sa kalida					ىرىلەردىكارمىكا كەرمىكى. 1941-يىلىرىكارمىكى كەرمىكى	in all an and			<u>rato</u> man
-60.0												Freq Offset
00.0												0 Hz
-70.0		\rightarrow										
Star #Res	t 2.50 s BW	GHz 100	: kHz		#VBW	300 kHz			Sweep	Stop 2 2.294 <u>s (</u>	6.50 GHz 8001 pt <u>s</u>)	
MSG									STATUS	;		



2.3 TM1_Ch39_H@Ant 1

Pref:

Agilent	t Spectru	n Analyzer - Sw	ept SA								
Cent	ter Er	RF 50 Ω	AC 00000 GH	7	SEN	ISE:INT	Avg Type	ALIGNAUTO : Log-Pwr	06:25:45 PM TRAC	4 May 03, 2017 E 1 2 3 4 5 6	Frequency
CON		/q 2.40000	PN	IO: Wide 🖵	Trig: Free Atten: 30	Run dB	Avg Hold:	>1000/1000	T Y F DE	E M WWWWWW T P P P P P P	
		Ref Offset 1 o	iB ID	Jam.Low	Theorem of			Mkr1	2.480 0	20 GHz	Auto Tune
10 de Log r	3/div	Ref 20.00 d	авт I						- 1.44	or abm	
10.0 -											Center Freq 2.48000000 GHz
0.00						1					
-10.0					\bigwedge	\sim					Start Freq 2.478000000 GHz
-20.0											Stop Freq 2.482000000 GHz
-30.0			\square	J				\frown			CF Step
-50.0		لىمرمام مر	{					<u>ر</u>	L.		400.000 kHz <u>Auto</u> Man
J	ᠺᢦᡅ᠕ᠬᠬ	WIT- MARAN							سم موارد .	<u>᠆ᠰᡳ᠕ᡁᡘᡀ</u> ᡶ᠘	Freg Offset
-60.0											0 Hz
-70.0											
Star	t 2.478	000 GHz						8	top 2.482	2000 GHz	
#Res	SBW 1	00 kHz		#VBW	300 kHz			Sweep	2.000 ms	(601 pts)	
MSG								STATUS			



Puw:

Agilen	it Spectru	um Ana	lyzer - Swe	ept SA									
LXI RI Star	t Erer	RF	50 Ω	<u>A</u> DC		SEN	ISE:INT	Ανα Τνρε	ALIGNAUTO	06:46:26 PM TRAC	1 May 03, 2017	F	requency
Stal		1 9.0			PNO: Close 😱 IFGain:Low	Trig: Free #Atten: 40	e Run) dB	Avg Hold	> 100/100				Auto Tune
10 dE Log	3/div	Ref Ref	Offset 1 d 0.00 dE	iB 3m						-70.4	39 dBm		
-10.0													Center Freq
-20.0													73.000 KHZ
-30.0													Start Freq 9.000 kHz
-30.0													
-40.0											51.45 dBm		Stop Freq 150.000 kHz
-00.0											-or voubli		CF Step
70.0					1							<u>Auto</u>	14.100 kHz Man
-70.0	$\sim \sim \sim$	᠕᠕	ᠬ᠕ᠰ᠕	᠕ᡁᡗᡃᡰᢦᡙᡗᠥᡨ	mr.Auronary ar	᠕᠕ᠰᠮ᠕ᠰᢛᢏᡀ	᠁ᡁᡗᢥᠷᡊᡁᡟᠬ	ᡀᢧᢇᡗ ^ᠰ ᡙᡀ	ᠬᡙ᠕ᡙ	w.C.m.	ᢔᠬᡀᠵ᠕ᡁᡙᠰ		Freq Offset
-80.0													0 Hz
-90.0													
Star #Re:	t 9.00 s BW	kHz 1.0 k	Hz		#VBW	3.0 kHz			#Sweep	Stop 15 100.0 ms	0.00 kHz (601 pts)		
MSG									STATU	s 🦺 DC Cou	ıpled		



Agilen	it Spectr	rum Ar	nalyzer - S	wept SA										
Cen	ter F	RF req	50 50 50	Ω <u>A</u> DC 6000 N	ЛНz		SEN	VSE:INT	Avg Type	ALIGNAUTO	06:26:22 PM TRAC	1 May 03, 2017 E <mark>1 2 3 4 5 6</mark>	Fre	quency
					PN	IO: Wide 🖵 Gain:Low	Trig: Free #Atten: 40	e Run)dB	Avg Hold:	>50/50	DE			
		Re	f Offset 1	dB						M	(r1 11.3	54 MHz		Auto Tune
10 dE Log	3/div	Re	f 20.00	dBm							-63.1	79 dBm		
													C	enter Freq
10.0													15.0	075000 MHz
0.00														
0.00														Start Freq
-10.0													1	150.000 kHz
-20.0														Stop Freq
-30.0													30.0	000000 MHz
														CE Oton
-40.0												-41.46 dBm	2.9	OF Step 985000 MHz
-50.0													<u>Auto</u>	Man
													_	
-60.0	<u> </u>					• ¹							F	req Offiset
70.0		una te	alay di Marian	alph de second	diji di s	an head wind the		el.//		ا عارية الساعري	in institute in the	endeling life and the		0 THE
-70.0														
6 4-11	4.450										6 4 0			
star #Res	s BW	кнz 10 k	κHz			#VBW	30 kHz			Sweep 2	85.4 ms (0.00 MHZ 3001 pts)		
MSG										STATUS	LDC Cou	pled		



Agilen	t Spectru	n Analyzer - S	wept SA								
Cen	ter Fre	RF 50 eq 1.165(Ω AC 000000 GI		SEN	Run	Avg Type AvalHold:	ALIGNAUTO : Log-Pwr >50/50	06:26:40 PM TRAC TYP	1 May 03, 2017 E <mark>1 2 3 4 5 6</mark> E M WWWWW	Frequency
			IF	Gain:Low	#Atten: 40	dB			DE	ТРРРРР	
10 dE	3/div	Ref Offset 1 Ref 20.00	∣dB ∣dBm					Mkr	1 2.134 -48.9	01 GHz 09 dBm	AutoTune
10.0											Center Freq 1.16500000 GHz
0.00 -10.0											Start Freq 30.000000 MHz
-20.0 -30.0											Stop Freq 2.300000000 GHz
-40.0 -50.0								a a la caracteria da com	a him mana a Pilipin		CF Step 227.000000 MHz <u>Auto</u> Man
-60.0		a daga sing bar databah	an an an Anna an Anna Anna Anna Anna An		a ting dan pang bang bang dan pang bang Pang pang bang dan pang bang pang bang dan pang bang dan pang bang bang bang dan pang bang bang dan pang bang ba	i an a tao an	and a first of the second s	an a		na posta de la contrata de la contra	Freq Offset 0 Hz
-70.0 Star	1 30 M								Stop 2	300 CHz	
#Res	s BW 1	12 00 kHz		#VBW	300 kHz		:	Sweep 2	310p 2 17.1 ms (8001 pts)	
MSG								STATUS	6		



Agilen	t Spectru	m Analyze	er - Swep	ot SA								
Cen	ter Fr	RF eq 2.3	50 Ω 5000	AC 0000 GI	Hz	SEN	ISE:INT	Avg Type	LIGN AUTO	06:26:51 PM TRAC	May 03, 2017	Frequency
				F	'NO: Fast 🕞 Gain:Low	#Atten: 40	dB	Avginoia:	>200/200	DE	TPPPPP	• · • · •
10 dE	3/div	Ref Offs Ref 20	set 1 di).00 d i	3 Bm					Μ	48.74 kr1 2.346	6 7 GHz 48 dBm	Auto I une
9												Center Freq
10.0												2.350000000 GHz
0.00												Start Freq
-10.0												2.300000000 GHz
-20.0												
-20.0												Stop Freq 2.40000000 GHz
-30.0											-31.46 dBm	
-40.0						. 1						CF Step 10.000000 MHz
-50.0						•						<u>Auto</u> Man
	nh thain h	ት ^ስክስታቸውንን	*******	₽ ^{₽₽} ₽₽₩₩₩₽₽₽₽	YVXVIIIIMANYVY	h trihowy na hana an	╵╵┝╍╏┪┠┲╹╢┖╱┶┍╍┚[┲┖	₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	alinterstates	Ind Anal Alexandrian	ም ቢባራ በማበታለሉ በምትሥላ	Freg Offset
-60.0												0 Hz
-70.0												
Otor										Otom 0.40		
star #Res	s BW 1	00 GH	Z		#VBW	300 kHz			Sweep 9	9.600 ms (1000 GH2 1001 pts)	
MSG									STATU	IS		



Agilen	t Spectru	ım Analyze	r - Swept	SA								
Cen	ter Fr	RF eq 2.49	50 Ω 9 1750	AC 000 GH	z	SEN	SE:INT	Avg Type	LIGNAUTO	06:27:00 PM TRAC	May 03, 2017	Frequency
				PN IFG	lO: Wide 🗣 Gain:Low	#Atten: 40	dB	Avginoia.	>200/200	DE	TPPPPP	A
10 dE	3/div	Ref Offs Ref 20	et 1 dB . 00 dB	m					Mkr1 2	.494 55 -49.2	5 0 GHz 77 dBm	Auto I une
10.0												Center Freq 2.491750000 GHz
0.00												Start Freq
-10.0												2.483500000 GHz
-20.0											-31.46 dBm	Stop Freq 2.500000000 GHz
-40.0								1				CF Step 1.650000 MHz Auto Man
-50.0	_{Դունո} վիր		ᡃᡃ᠋ᡙ᠕ᢧ᠕	ᠰ᠕ᡙᠬ᠇᠕	ᢧᢦᢞᡃᠺᡘᢦᢞᠯᡨᡀ	ᡃᢏ _{ᡊᡗ} ᢦᡗᡟᡙᡗ᠊ᠲᡪᡗᠯᢦᠾᠬᡕ	ᡊ᠘᠕ᡰᡁᡘᠺᢐ᠕ᠮ		ալիսիտակա	᠂ᡎ᠇᠕ᠰᢧᡅᡁᠬ	᠋ᡁᡀᡙᡗᡝᡅᢦᡃᢆᠰᡗ	
-60.0												Freq Offset 0 Hz
-70.0												
Star	t 2.48:	3500 GF	7							stop 2.500	000 GHz	
#Res	s BW	100 kHz			#VBW	300 kHz			Sweep	1.600 ms	(601 pts)	
MSG									STATUS	3		



Agilen	t Spectru	um Analy	zer - Sw	ept SA								
Cen	ter Fr	RF ea 14	50 Ω 1.5000	AC 000000	GHz	SEN	NSE:INT	Avg Type	ALIGNAUTO : Log-Pwr	06:27:32 PM TRAC	4 May 03, 2017 ^{2E} <mark>1 2 3 4 5 6</mark>	Frequency
					PNO: Fast 🖵 IFGain:Low	Trig: Free #Atten: 40	eRun)dB	Avg Hold:	10/10	TYF Di	PPPPP	
		Pef 0	ffeet 1 /	18					M	kr1 25.5	31 GHz	Auto Tune
10 dE	3/div	Ref 2	20.00	iBm						-37.5	73 dBm	
LOA												Center Freq
10.0												14.500000000 GHz
0.00												Start Freq
-10.0												2.500000000 GHz
-20.0												Stop Freq
												26.50000000 GHz
-30.0											<u>-31.46 albm</u>	
-40.0										الله راس ر		CF Step
						هديد ا		وبالإيالا بالجوالين				<u>Auto</u> Man
-50.0	de la constante						لم _ا يسرر تحكما المكافرين.					
-60.0												Freq Offset
00.0												0 Hz
-70.0												
Star	t 2.50	GHz		1					~	Stop 2	6.50 GHz	
#Res	s BW	100 kl	Iz		#VBW	/ 300 kHz			Sweep	2.294 s (8001 pts)	
MSG									STATUS	5		



Appendix H: Radiated Spurious Emission & Spurious in Restricted

Band

Note: We tested all modes, but the data presented below is the worst case.

Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered

1.1 Part 1: Testing Range of "9 kHz to 30MHz"

NOTE1: No peak found in the Test Range of "9 kHz to 30MHz"

1.2 Part 2: Testing Range of "30 MHz to 1 GHz"

- Note 1: The test results and plot for testing range of "30 MHz to 1 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency	Level	Limit	Margin	Height	Pol	Azimuth	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		(deg)	(dB)
44.172300	25.43	40.00	14.57	200.0	V	118.0	18.1
102.115250	18.24	43.50	25.26	148.0	V	0.0	11.9
132.510550	19.89	43.50	23.61	129.0	V	157.0	13.5
149.731900	18.92	43.50	24.58	100.0	V	213.0	12.5
296.482600	23.56	46.00	22.44	117.0	Н	267.0	15.8
697.681000	32.04	46.00	13.96	130.0	Н	56.0	24.4

Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) Margin=Limit-Level. The reading level is calculated by software which is not shown in the sheet.

1.3 Part 3: Testing Range of "1GHz to 3GHz"

- Note 1: The testing range of "1GHz to 3 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 $dB\mu V/m$) and Average Limit (54 $dB\mu V/m$).

Note 3: The peak spike exceeds the limit line is EUT's operating frequency. Test Mode:

1.3.1Test Mode: TM1

1.3.1.1 Channel 0



MEASUREMENT RESULT: AV Detector

Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h	(dB)
2390	25.20	54.00	28.80	100.0	V	90.0	-7.6

MEASUREMENT RESULT: PK Detector

Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h (deg)	(dB)
2390	33.20	74.00	40.80	135.0	Н	22.0	-7.6

Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) Margin=Limit-Level. The reading level is calculated by software which is not shown in the sheet.



1.3.1.2 Channel 39



MEASUREMENT RESULT: AV Detector

Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.		
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h	(dB)		
2483.5	29.49	54.00	24.51	110.0	Н	219.0	-5.4		
MEASUREMENT RESULT: PK Detector									
Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.		
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h (deg)	(dB)		
2483.5	40.06	74.00	33.94	152.0	Н	261.0	-5.4		

Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) Margin=Limit-Level. The reading level is calculated by software which is not shown in the sheet.



1.4 Part 4: Testing Range of "3 GHz to 18 GHz"

- Note 1: The test results and plot for testing range of "3 GHz to 18 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "3 GHz to 18 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 $dB\mu V/m$) and Average Limit (54 $dB\mu V/m$).





1.5 Part 5: Testing Range of "18 GHz to 26.5 GHz"

NOTE: No peak found in the Test Range of "18 GHz to 26.5GHz"



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



Frequency	Level	Limit	Transd.	Margin	Line	DE
(MHz)	(dBµ V)	(dBµ V)	(dB)	(dB)		FC
0.202274	21.57	53.52	9.7	31.95	Ν	FLO
0.270180	23.46	51.11	9.7	27.65	Ν	FLO
0.670574	29.81	46.00	9.7	16.19	Ν	FLO
1.335606	31.35	46.00	9.7	14.65	Ν	FLO
4.065501	31.92	46.00	9.8	14.08	Ν	FLO
17.946074	34.32	50.00	10.1	15.68	Ν	FLO

MEASUREMENT RESULT: AV Detector

MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level (dBµ V)	Limit (dBµ V)	Transd. (dB)	Margin (dB)	Line	PE
0.167228	42.54	65.10	9.7	22.56	Ν	FLO
0.281304	41.65	60.78	9.7	19.12	Ν	FLO
0.671458	39.91	56.00	9.7	16.09	Ν	FLO
1.433638	43.73	56.00	9.7	12.27	Ν	FLO
4.080465	41.26	56.00	9.8	14.74	Ν	FLO
18.110287	45.11	60.00	10.1	14.89	Ν	FLO

Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) Margin=Limit-Level. The reading level is calculated by software which is not shown in the sheet.

END