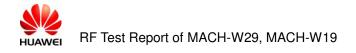


Appendix for Test report



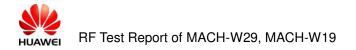
Appendix A: DTS (6 dB) Bandwidth

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

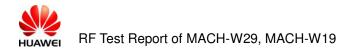
Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[MHz]	Verdict
TM1 _Ch0	L	2402	0.65	pass
TM1 _Ch19	М	2440	0.65	pass
TM1 _Ch39	Н	2480	0.67	pass



Part II - Test Plots

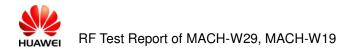
2.1 TM1_Ch0_L





2.2 TM1_Ch19_M

Agilent Spectrum Analyzer - Occupied BW X RL RF 50 Ω AC Center Freq 2.440000000 C #	Hz Center	sense:INT Freq: 2.440000000 GHz ree Run Avg Hold :40 dB	Radio 5 d: 10/10	9 AM Jan 17, 2018 Std: None Device: BTS	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 25.00 dBm					
5.00					Center Freq 2.440000000 GHz
-5.00					
-35.0				ᡐᡏᡐᠧᡘᢦᢦ᠋᠋ᠿᡀᠯ	
-65.0					
Center 2.44 GHz #Res BW 100 kHz	#\	/BW 300 kHz		Span 4 MHz weep 1 ms	CF Step 400.000 kHz
Occupied Bandwidth		Total Power	12.8 dBm		<u>Auto</u> Man
1.0	649 MHz				Freq Offset
Transmit Freq Error	-2.210 kHz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	653.4 kHz	x dB	-6.00 dB		
MSG			STATUS		



2.3 TM1_Ch39_H

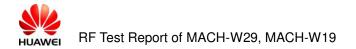
	50 Ω AC 480000000 GI	Trig:	SENSE:INT er Freq: 2.480000000 GHz Free Run Avg Hol n: 40 dB	ld: 10/10	11:30:44 AM Jan 17, 2018 Ladio Std: None Ladio Device: BTS	Frequency
15.00 -5.00						Center Freq 2.480000000 GHz
-15.0 -25.0 -35.0 -45.0	Marine				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-55.0 -65.0 Center 2.48 GH	Z				Span 4 MHz	CF Step
#Res BW 100 k Occupied E	Bandwidth	57 MHz	VBW 300 kHz Total Power	12.8 c	Sweep 1 ms IBm	400.000 kHz <u>Auto</u> Man
Transmit Fre x dB Bandwi	eq Error	-1.494 kHz 669.3 kHz	OBW Power x dB	99.0 -6.00		Freq Offset 0 Hz
MSG				STATUS		

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

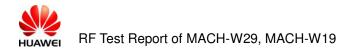
Test Mode	Test Channel	Frequency[MHz]	Occupied Bandwidth [MHz]	Verdict
TM1 _Ch0	L	2402	1.05	pass
TM1 _Ch19	М	2440	1.04	pass
TM1 _Ch39	Н	2480	1.04	pass



Part II - Test Plots

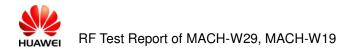
2.1 TM1_Ch0_L





2.2 TM1_Ch19_M

		SENSE:INT Center Freq: 2.4400000 Trig: Free Run #Atten: 40 dB	ALIGN AUTO DO GHz Avg Hold: 10/10	11:27:07 AM Jan 17, 2018 Radio Std: None Radio Device: BTS	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 25.00 dBm					
Log 15.0 5.00		Ant han _			Center Freq 2.440000000 GHz
-15.0	~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		
-25.0			<u>h</u>		
-35.0	~		- Vmm		
-45.0				how when the provide the second secon	
Center 2.44 GHz #Res BW 20 kHz		#VBW 62 kHz		Span 4 MHz Sweep 9.6 ms	CF Step 400.000 kHz
Occupied Bandwidth		Total Pow	ver 12.5	i dBm	<u>Auto</u> Man
1.0	9438 MH	Z			Freq Offset
Transmit Freq Error	3.705 kł	Hz OBW Pov	ver 99	0.00 %	0 Hz
x dB Bandwidth	1.258 Mł	Hz xdB	-26.	00 dB	
MSG			STATUS	3	



2.3 TM1_Ch39_H

Agilent Spectrum Analyzer - Occupied BW μα RL RF 50 Ω AC Center Freq 2.480000000 GH μα μ			Radio Sto 1: 10/10	AM Jan 17, 2018 d: None Frequenc vice: BTS	зy
Ref Offset 0.5 dB 10 dB/div Ref 25.00 dBm					
15.0 5.00				Center 2.48000000	- 1
-5.00					
-35.0			Marine Ma		
-65.0					
Center 2.48 GHz #Res BW 20 kHz	#V	BW 62 kHz		200.00 400.00	
Occupied Bandwidth		Total Power	12.5 dBm	<u>Auto</u>	Man
1.04	42 MHz			Freq O	ffset
Transmit Freq Error	3.720 kHz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	1.262 MHz	x dB	-26.00 dB		
MSG			STATUS		



Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
TM1	CH0,CH19,CH39	62

Part II - Test Plots

2.1 TM1

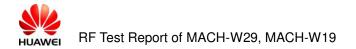
XI RL Marker 2	RF 903.13	50 Ω 33 μs	AC				NSE:INT	-	Avg T		GN AUTO og-Pwr	11:2		M Jan 17, 2018 CE <mark>1 2 3 4 5</mark> PE W WWWWW ET <mark>P N N N N</mark>		Marker
				PNO: Fast IFGain:Low		rig: Fre Atten: 40									-	Select Marker
10 dB/div Log	Ref 3	0.00 d	Bm									MK	r2 9 5.	03.1 µs 63 dBn	S	2
20.0			1			<u>2</u>		_ <mark>3</mark>								Norma
0.00																
-10.0																Delta
-20.0		-51 - 1- 54	page -			havenaut	, " "	Í			\$.J [™] UIN ¹ ¶	, <u>m</u>				2010
-40.0		-Nerviginit	ſ ŀ			hana di la	vi v 1				A and the	9 <mark>4</mark> '				Fixed
-60.0																Fixeu
Center 2.4 Res BW 8		000 GI	Hz		W 8.0					<u> </u>	1000 J	067	S	pan 0 Hz 1001 pts	z	0.5
	RC SCL		X		vv o.u	Y		FUNC	TION							Of
1 N 1 2 N 1 3 N 1				<u>516.7 μs</u> <u>903.1 μs</u> 1.141 ms		5.72 d 5.63 d 5.69 d	Bm Bm Bm									
4 5				1.1411115		0.05 0										Properties •
6 7 8															ŀ	
9																More 1 of 2
11 <																
SG											STATUS	5				



Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	Power[dBm]	Verdict
TM1 _Ch0	L	2402	62	5.74	pass
TM1 _Ch19	М	2440	62	6.04	pass
TM1 _Ch39	н	2480	62	6.08	pass

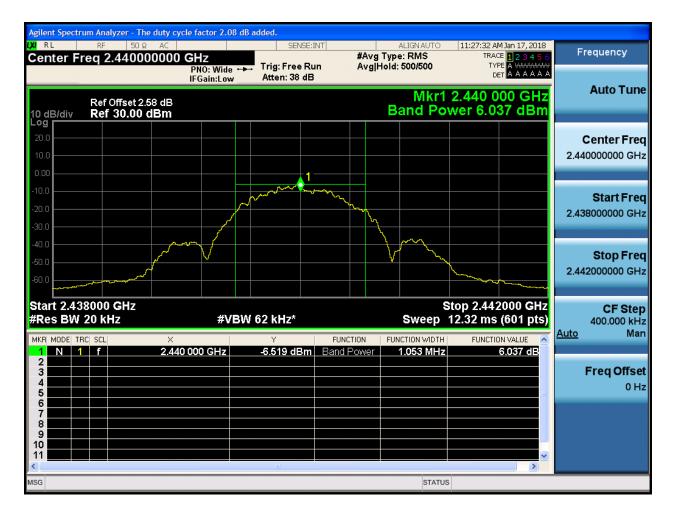


Part II - Test Plots

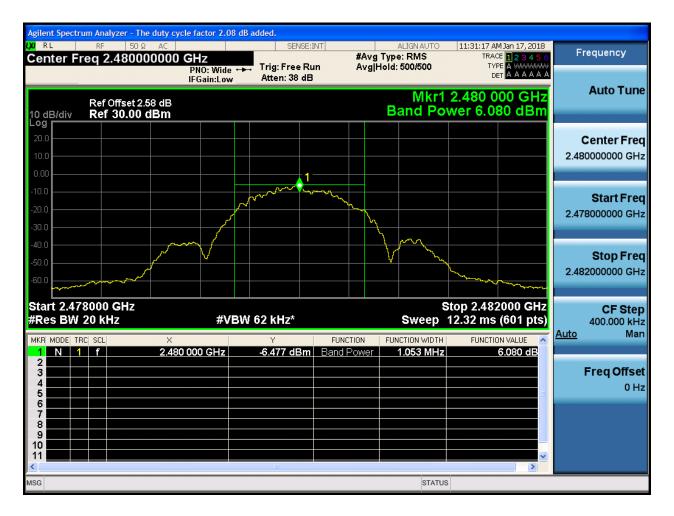
2.1 TM1_Ch0_L

Agilent Spectr	um Analyzer - The o RF 50 Ω		actor 2.08	B dB ad		ISE:INT			ALIGN AUTO	11·22·22 A	M Jan 17, 2018	_	
	req 2.402000	0000 GH	Z IO: Wide		Trig: Free			vg Typ		TRA(TY	CE 1 2 3 4 5 6 PE A WWWW	Fr	equency
10 dB/div	Ref Offset 2.58 Ref 30.00 d	IFC 3 dB	Gain:Low		Atten: 38	dB	_	В	Mkr1 and Po	2.402 0	000 GHz 36 dBm		Auto Tune
20.0 10.0 0.00						1							Center Freq 2000000 GHz
-10.0 -20.0 -30.0				~~	~~~~			Vy Vy				2.400	Start Freq 0000000 GHz
-40.0 -50.0 -60.0								V			~~^	2.404	Stop Freq 4000000 GHz
Start 2.40 #Res BW	RC SCL	× 2.402 000			2 kHz* 7	FUNC	CTION		Sweep ICTION WIDTH 1.053 MHz	12.32 ms	4000 GHz (601 pts) N VALUE 5.736 dB	Auto	CF Step 400.000 kHz Man
2 3 4 5 6 7 8 9		2.402.00			-7.240 UL								F req Offset 0 Hz
9 10 11 < MSG									STATUS	3	✓		

2.2 TM1_Ch19_M



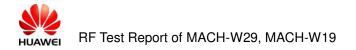
2.3 TM1_Ch39_H



Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

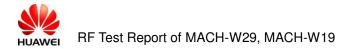
Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
TM1 _Ch0	L	2402	62	-8.71	pass
TM1 _Ch19	М	2440	62	-8.00	pass
TM1 _Ch39	Н	2480	62	-8.63	pass



Part II - Test Plots

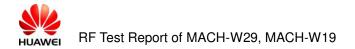
2.1 TM1_Ch0_L





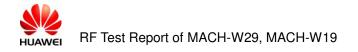
2.2 TM1_Ch19_M





2.3 TM1_Ch39_H

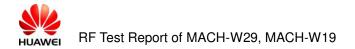




Appendix F: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1 _Ch0	L	2402	5.75	-35.55	pass
TM1 _Ch39	Н	2480	6.05	-47.77	pass

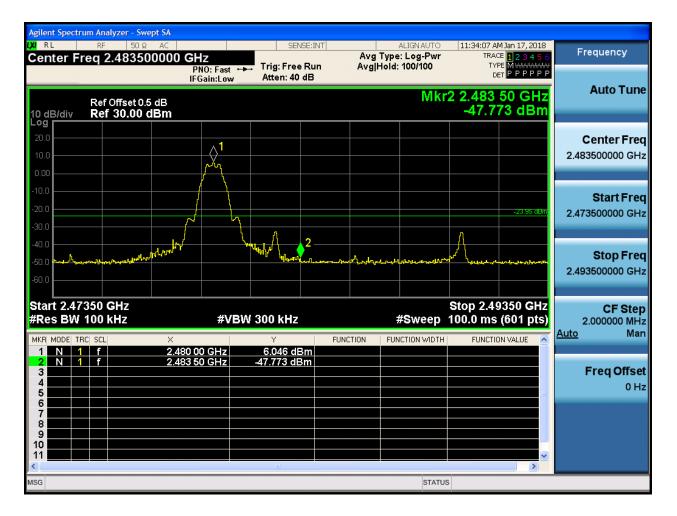


Part II - Test Plots

2.1 TM1_Ch0_L

	um Analyzer - Swept							
Center Fi	RF 50 Ω req 2.392500	AC 000 GHz	SENSE:II	Avg	ALIGN AUTO Type: Log-Pwr	TRAC	M Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	Frequency
		PNO: Fast ← IFGain:Low	Trig: Free Ru Atten: 40 dB	n Avgļ	Hold: 10/10	DI		
	Ref Offset 0.5 d	B			Mkr	2 2.400	00 GHz	Auto Tune
10 dB/div Log	Ref 30.00 dE					-35.5	52 dBm	
20.0								Center Freq
10.0								2.392500000 GHz
0.00								
-10.0							<u> </u>	Start Freq
-20.0						2	-24.25 dBm	2.380000000 GHz
-40.0						i j	\.AA	
-50.0 paratesta	adamatic and the second s	₩ <u>₽</u> ₽₩₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	and to low of the start of the		winter when the	Y.	ኯኯኯ	Stop Freq
-60.0								2.405000000 GHz
Start 2.38	000 GH7					Ston 24()500 GHz	CE Oton
#Res BW		#VB	W 300 kHz		#Sweep	100.0 ms	(601 pts)	CF Step 2.500000 MHz
MKR MODE TF		×	Y	FUNCTION	FUNCTION WIDTH	FUNCTIO	DN VALUE	<u>Auto</u> Man
1 N 1 2 N 1	f	2.402 00 GHz 2.400 00 GHz	5.747 dBm -35.552 dBm					
3 4								Freq Offset 0 Hz
5							=	
8								
9								
11							×	
MSG					STATUS	3		

2.2 TM1_Ch39_H





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	5.83	<limit< td=""><td>pass</td></limit<>	pass
TM1_Ch19	М	2440	6.14	<limit< td=""><td>pass</td></limit<>	pass
TM1_Ch39	Н	2480	6.17	<limit< td=""><td>pass</td></limit<>	pass

Part I - Test Results

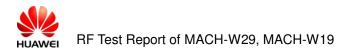


Part II - Test Plots

2.1 TM1_Ch0_L

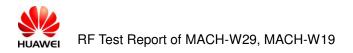
Pref:

Agilent Spectrum Analyzer - Swept So LX/ R L RF 50 Ω AC		E:INT ALIGN AUT() 11:24:05 AM Jan 17, 2018	
Center Freq 2.4020000	00 GHz PNO: Wide 🕞 Trig: Free I	Avg Type: Log-Pw Run Avg Hold:>1000/10	r TRACE 123456	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 20.00 dBn	IFGain:Low Atten: 30 d		r1 2.402 000 GHz 5.826 dBm	Auto Tune
10.0		1		Center Freq 2.402000000 GHz
-10.0				Start Freq 2.400000000 GHz
-20.0				Stop Freq 2.404000000 GHz
-40.0			how where and	CF Step 400.000 kHz <u>Auto</u> Man
-60.0				Freq Offset 0 Hz
-70.0 Start 2.400000 GHz	#VBW 300 kHz		Stop 2.404000 GHz	
#Res BW 100 kHz	#VBW 300 KH2	SWee	o 1.000 ms (601 pts) ^{TUS}	

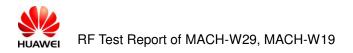


Puw:

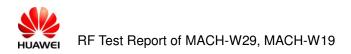
	rum Analyzer - Swept SA								
Center F	RF 50 Ω <u>A</u> DC req 79.500 kHz	9	ENSE:INT		ALIGNAUTO	11:24:20 AM TRACE	122456	Fr	equency
Genter I	100 73.300 KHZ	PNO: Wide Trig: Fr IFGain:Low #Atten:		Avg Hold:		TYP! DE1	MWWWWW PPPPPP		
10 dB/div Log	Ref Offset 0.5 dB Ref 0.00 dBm					Mkr1 9.2 -52.68	35 kHz 2 dBm		Auto Tune
-10.0								c	enter Freq 79.500 kHz
-20.0									Start Freq 9.000 kHz
-40.0							-44.17 dBm		Stop Freq 150.000 kHz
-60.0	؇ڸۯ _؆ ڛۯٳڮٵ؊ڸۯۯ _؆	᠆ᡣ᠋ᡆᡅᠯᡰᢩᠰ᠆ᠬᡕᡅᢂᢩᠸᡀᢧᢧᡀᡀᡀᡀ᠕ᡁᢔ						<u>Auto</u>	CF Step 14.100 kHz Man
-80.0			հվրորոն	ᡗᡊᡊᡢᠧ᠕ᡁᡞ	nhuil _{ja} nuluy	ᢂᡁᢆ᠁	ᡌᡁᠬᠬᡘᠮ᠋ᡥᠾᢇᠬ	I	F req Offset 0 Hz
-90.0									
#Res BW		#VBW 3.0 kHz			Sweep	134.8 ms	0.00 kHz (601 pts)		
MSG					STATUS	L DC Cou	pled		



Agilent Spectr XI RL	r <mark>um Analyzer - Sw</mark> RF 50 Ω	ept SA		CEN	ISE:INT		ALIGN AUTO	11-24-42 AM	1 Jan 17, 2018	
	req 15.0750	000 MHz	NO: Fast 🖵 Gain:Low		Run		: Log-Pwr	TRAC	E 1 2 3 4 5 6 E MWWWWW T P P P P P P	Frequency
10 dB/div	Ref Offset 0.6 Ref 20.00 (5 dB d Bm						Mkr1 1 -42.30	50 kHz 69 dBm	Auto Tune
10.0										Center Free 15.075000 MH
10.00										Start Free 150.000 kH
30.0									-34.17 dBm	Stop Free 30.000000 MH
40.0 1										CF Ste 2.985000 M⊢ <u>Auto</u> Ma
	with the territories	aliv. Nami pilipataka	an da an	hirifahan kanganan	uliyariyariyari	all participation	and anti-physical state of the	. An <mark>d</mark> ida ta ang bagi	nintratunitiante	Freq Offse 0 H
Start 150 Res BW	kHz 10 kHz		#VBW	30 kHz			Sweep 2	Stop 30 85.4 m <u>s (</u> 3).00 MHz 3001 pts)	
SG							-	DC Cou		



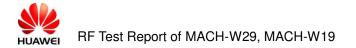
Agilen	t Spectru	m Analyzer	- Swept S	SA								
Cen	ter Fr	RF eq 1.16	50Ω A 50000	c 00 GH	z		Bun		ALIGNAUTO : Log-Pwr >50/50	TRAC	4 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark> E M VANANA	Frequency
				IFG	IO: Fast 🖵 jain:Low	#Atten: 40		Arghivia.				A
10 dE	3/div	Ref Offse Ref 20.							Mkr	1 2.215 -47.5	44 GHz 22 dBm	Auto Tune
Log 10.0												Center Freq 1.165000000 GHz
0.00												Start Freq 30.000000 MHz
-20.0											-24.17 dBm	Stop Freq
-30.0												2.300000000 GHz
-50.0			antaliada a silata bit .	. ժունիները		الاور ا و المراجع والعام الم	<mark>الالكان ومقاربة المحمد الارتما</mark> لة	बत्त्वज्ञान् जिस् म् ल्यूयत्वी	, and along the providence of		1 Internet of telefor	227.000000 MHz <u>Auto</u> Man
-60.0	n balan da baran da Alaman da pinan d		in der ander soner	A des planta and the	an a	n i gelanika, na je g je posedn	ر المراجع	, a, an and consequences of his basis				Freq Offset 0 Hz
-70.0												_
	t 30 M					1		1	1	Stop 2	.300 GHz	
	s BW 1	00 kHz			#VBW	300 kHz			Sweep 2	17.1 ms (8001 pts)	
MSG									STATUS	5		



		n Analyzer - Sw									
Cen		RF 50 Ω q 2.35000	AC 00000 GH	lz_		ISE:INT	Avg Type	ALIGN AUTO : Log-Pwr	TRAC	4 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	Frequency
		•	PI	NO: Fast 🕞 Gain:Low	Trig: Free #Atten: 40		Avg Hold:	>200/200		E MWWWWW P P P P P P	
10 dE		Ref Offset 0.4 Ref 20.00 (M	(r1 2.40) -37.2	0 0 GHz 05 dBm	Auto Tune
10.0											Center Freq 2.350000000 GHz
0.00 -10.0											Start Freq 2.300000000 GHz
-20.0 -30.0										-24.17 dBm	Stop Freq 2.400000000 GHz
-40.0											CF Step 10.000000 MHz <u>Auto</u> Man
-50.0 -60.0	vi, ali hadri	Jn-walthan yeAlen	and what were	พ.งสมบ _{ู่ไม่-} √บทางส์ใหญ _่ ญ	ili Hindrahi Maa	Hurman	adau _{nin} ttavitta	White Jap With Strater	la Art H ersonaltu	r-flatan-apthreamed	Freq Offset 0 Hz
-70.0											
	t 2.300								Stop 2.40	0000 GHz	
#Res	s BW 1	00 kHz		#VBW	300 kHz					1001 pts)	
MSG								STATUS	5		

KI RL	RF 50 Ω	AC		SEN	ISE:INT		ALIGN AUTO	11:25:24 AN	1 Jan 17, 2018	
	req 2.49175	0000 G	PNO: Fast 😱	Trig: Free	e Run		: Log-Pwr	TRAC TYP	E 1 2 3 4 5 6 E MWWWWWW T P P P P P P	Frequency
l0 dB/div ₋og r	Ref Offset 0.5 Ref 20.00 c	dB	Gain:Low	#Atten: 40) dB		Mkr1 2	496 095		Auto Tune
10.0										Center Fred 2.491750000 GHz
10.00										Start Free 2.483500000 GH:
30.0									-24.17 dBm	Stop Free 2.500000000 GH:
-40.0	᠕ᡃᠾᡗᠱᡙᡧᡊᡊᡘᡕ	a ti lletta cono	ու ո	la nameli.	معاددامه	walka . [b. r].	1 1	Jul marine A.R.		СF Step 1.650000 МН: <u>Auto</u> Маг
60.0	414 · 64 · 64 · 64 · 64 · 64 · 64			о 44 то т Ф	h - 10- o 11 - 44					Freq Offse 0 H
	3500 GHz 100 kHz		<i>"</i> "	300 kHz			Surran	top 2.500 1.600 ms	0000 GHz	

Agilent Spec	ctrum Analyzer	- Swept SA								
LXI RL		50Ω AC		SEN	ISE:INT		ALIGN AUTO : Log-Pwr		M Jan 17, 2018 CE <mark>1 2 3 4 5 6</mark>	Frequency
Center	Freq 14.50		PNO: Fast 🗔	Trig: Free		Avg Hold:		Τ'	PEMWWWWW ETPPPPP	
	_		IFGain:Low	#Atten: 40) dB					Auto Tune
	Ref Offse						M	kr1 26.4	179 GHz	Autorune
10 dB/div Log	Ref 20.0	00 dBm						-39.5	09 dBm	
										Center Freq
10.0										14.500000000 GHz
										14.00000000000000
0.00										
										Start Freq
-10.0										2.500000000 GHz
-20.0									04.47.10	Stop Freq
									-24.17 dBm	26.50000000 GHz
-30.0										
									1	05.04.0
-40.0								الهيام بعدن		CF Step 2.40000000 GHz
	ىلايەرمى ،	and a state of the		analan analan I.		New Julk	North North	May Martin		<u>Auto</u> Man
-50.0			n fa dhairte	and the second second	in the second					
										Freq Offset
-60.0										0 Hz
70.0										
-70.0										
Start 2.5						~		Stop 2	26.50 GHz	
#Res BV	V 100 kHz		#VBW	300 kHz			Sweep	2.294 s	(8001 pts)	
MSG							STATUS	3		



2.2 TM1_Ch19_M

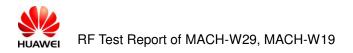
Pref:





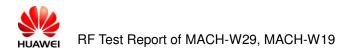
Puw:

9 1	um Analyzer - Swept SA						
Center F	RF 50 Ω <u>A</u> DC req 79.500 kHz		SENSE:INT	ALIG	n-Pwr TRA	M Jan 17, 2018 CE <mark>1 2 3 4 5 6</mark>	Frequency
			ig: Free Run atten: 26 dB	Avg Hold:>50/	50 τι [
10 dB/div Log	Ref Offset 0.5 dB Ref 0.00 dBm				Mkr1 9. -54.3	000 kHz 89 dBm	Auto Tune
-10.0							Center Freq 79.500 kHz
-20.0							Start Freq 9.000 kHz
-40.0 -50.0 <mark>1</mark>						-43.86 dBm	Stop Freq 150.000 kHz
-60.0	And Whiten A way	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Æ	CF Step 14.100 kHz <u>Nuto</u> Man
-80.0		ريمار، راديد. م	www.woldylathan	ᡧᡃᠬᢪᠮᡃᠬᡘᢔᡊᡎ᠋ᢇᡘᠬ	ᡃᠬᠬᡢᡃᢧ᠋᠋᠋ᢥ᠋ᡁᢔᠺᠬᡀᡘᡙᢪ	ᡅᡨᡳᡧᠰᢦᠨᡃᡶ	Freq Offset 0 Hz
-90.0							
Start 9.00 #Res BW		#VBW 3.0	kHz	Sv	Stop 1 veep 134.8 ms	50.00 kHz s (601 pts)	
MSG					STATUS 1. DC CO	upled	



KIRL	RF	/zer - Swe 50 Ω <u>/</u>	<u>1</u> DC		SEI	NSE:INT		ALIGN AUTO		4 Jan 17, 2018	E
Center F	req 1	5.0750		PNO: Fast 🕞 Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	e: Log-Pwr ⊳50/50	TRAC TYP DE	E 123456 E MWWWWW T P P P P P P	Frequency
I0 dB/div ₋og ┏━━━	Ref 0 Ref 2	ffset 0.5 2 0.00 d	dB Bm							180 kHz 34 dBm	Auto Tune
10.0											Center Free 15.075000 MH
10.00											Start Free 150.000 kH
30.0										-33.86 dBm	Stop Fre 30.000000 MH
40.0 <mark>1</mark>											CF Ste 2.985000 MH <u>Auto</u> Ma
50.0	n, d. My ha	h ha	harak dapitika	ny interior di Lingge, di	ev, de internet politique	n fhrai fhilaidh fhiai	yoyel yn achiech yr	galadiya ka piraty	ili	n <mark>dudunu</mark> nun	Freq Offse 0 H
Start 150	kHz 10 kH	7		#\/B\A	/ 30 kHz			Sweep 2	Stop 3	0.00 MHz	

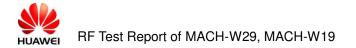
	um Analyzer - Swept									
Center F	RF 50 Ω req 1.165000	000 GH	Z		ISE:INT	Avg Type	LIGNAUTO	TRAC	1 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	Frequency
			IO: Fast 🖵 iain:Low	Trig: Free #Atten: 40		Avg Hold:				.
10 dB/div Log	Ref Offset 0.5 d Ref 20.00 dB	IB Sm					Mkr	1 2.071 -46.9	87 GHz 93 dBm	Auto Tune
10.0										Center Freq 1.165000000 GHz
0.00 -10.0										Start Freq 30.000000 MHz
-20.0									-23.86 dBm	Stop Freq 2.300000000 GHz
-40.0								a a a tanana	1 Istanati kirotu	CF Step 227.000000 MHz <u>Auto</u> Man
-50.0 Novilladi -60.0		<mark>dela alexana de la </mark>	ang pangkang pangkan Pang pangkang	n han dif sen yn heffen heffe Yn de pel en er yn en en e dif	i program i na program de la program de l La program de la program de	ing of the second s	կություն ու կությունին հետորդու Դերն մեկնությել իսլ ու բենստն	inen (j. 1996) 1999 : Alexandre (j. 1997) 1999 :	de ana dikana yena ana	Freq Offset 0 Hz
.70.0	1Hz							Stop 2	.300 GHz	
#Res BW			#VBW	300 kHz			Sweep 2	17.1 ms (8001 pts)	
MSG							STATUS			



Agilent Spectrum Analyzer - Swept SA											
Cen		RF 50 Ω	AC 00000 GH	z		ISE:INT	Avg Type	ALIGN AUTO : Log-Pwr	TRAC	4 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	Frequency
PNO: Fast					^l Trig: Free Run #Atten: 40 dB		Avg Hold:>200/200		E M WWWWWW T P P P P P P		
10 dE Log i		Ref Offset 0.8 Ref 20.00 (Mł	(r1 2.36) -46.8	0 0 GHz 28 dBm	Auto Tune
10.0											Center Freq 2.350000000 GHz
0.00 -10.0											Start Freq 2.300000000 GHz
-20.0 -30.0										-23.86 dBm	Stop Freq 2.400000000 GHz
-40.0	. Kathilanga	เหาะเกาะ	- instruction and the second second	(.)	a n. and to A in sector	and the other	1 	Mile and an extension	Mart Mar Marth		CF Step 10.000000 MHz <u>Auto</u> Man
-60.0	al a confider.	at A an one of a	and an		land and a second second		addend fit as fit.		an dil mid allanca e N		Freq Offset 0 Hz
-70.0											
	t 2.300				1	1			Stop 2.40	0000 GHz	
#Re	s BW 1	00 kHz		#VBW	300 kHz			Sweep 9	.600 ms (1001 pts)	
MSG								STATUS	3		

	um Analyzer - Swept SA					
Center F	RF 50Ω AC req 2.49175000	00 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	11:29:25 AM Jan 17, 2018 TRACE 1 2 3 4 5 6	Frequency
	Ref Offset 0.5 dB	PNO: Fast 🖵 IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Hold:>200/200 Mkr1 2	түре Мунинин Det P P P P P P 491 557 5 GHz	Auto Tune
10 dB/div Log	Ref 20.00 dBm				-48.912 dBm	
10.0						Center Freq 2.491750000 GHz
-10.0						Start Freq 2.483500000 GHz
-20.0					-23.86 dBm	Stop Freq 2.500000000 GHz
-30.0			▲1			CF Step 1.650000 MHz Auto Man
-50.0	ᡰ᠇ᡔ᠆ _{ᡀᢧ᠇} ᡒᠯᢕᡕ _ᢇ ᡁᠬᡟᡃᠾᠬᡃᠧ᠋᠕ᢦᠬ	white	weather and party with a	᠆ᡙ᠊ᡅᠬᠬᡎᡔᠧᢦᡕᢩᢧᢇ᠋ᡗᡅᡧᡰᢆᡟᡧᠬ	_ၯ ၨၮၯႄၜၣၟၮႝၛၟၟၣၯႜ ^ၛ ၖၯၯၣၯၜၯၯႄႝ႞႞	Freq Offsel
-70.0						0 Hz
Start 2.48 #Res BW	3500 GHz 100 kHz	#VBW	300 kHz	Sweep	top 2.500000 GHz 1.600 ms (601 pts)	
MSG						

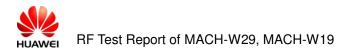




2.3 TM1_Ch39_H

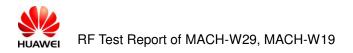
Pref:





Puw:

	um Analyzer - Swept SA									
Center F	RF 50 ହ <u>A</u> DC req 79.500 kHz			E:INT	Avg Type	ALIGNAUTO	TRAC	4 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	F	requency
	•	PNO: Wide 😱 IFGain:Low	Trig: Free #Atten: 26		Avg Hold:	>50/50	DE	E M WMMM T P P P P P P		
10 dB/div Log	Ref Offset 0.5 dB Ref 0.00 dBm							235 kHz 08 dBm		Auto Tune
-10.0										Center Freq 79.500 kHz
-20.0										Start Freq 9.000 kHz
-40.0								-43.83 dĐm		Stop Freq 150.000 kHz
<u> </u>	mfa VLMwowahaland	Sold mere							<u>Auto</u>	CF Step 14.100 kHz Man
-70.0				Puully Am	ᠬ᠈ᡩᠰᢑ᠆ᢣᠢᡗᢩᡰ	ᡁᡗᡁᡙᡀ	an man	ՠՠֈոԴուդեր		Freq Offset 0 Hz
-90.0										
Start 9.00 #Res BW		#VBW	3.0 kHz			Sweep	Stop 15 134.8 ms	0.00 kHz (601 pts)		
MSG						_	上 DC Cou			



Agilent Spect	t <mark>rum Analyzer</mark> RF	- Swept SA 50 Ω 🗥 DC		CEN	VSE:INT		ALIGN AUTO	11,00,00 #	1 Jan 17, 2018	
	req 15.0		Hz PNO: Fast 🖵 IFGain:Low	.	e Run		: Log-Pwr	TRAC	E 1 2 3 4 5 6 E M WWWW T P P P P P P	Frequency
I0 dB/div ₋og r	Ref Offse Ref 20 .	et 0.5 dB 00 dBm							l50 kHz 46 dBm	Auto Tun
10.0										Center Fre 15.075000 M⊦
10.00										Start Fre 150.000 k⊦
30.0									-33.83 dBm	Stop Fre 30.000000 M⊦
40.0 <mark>1</mark>										CF Ste 2.985000 M⊢ <u>Auto</u> Ma
50.0 44444	alard Malayad	edytelen og af tydegel	hyn ing twy slop slop slop	i progensie de la company d		tifland, davitt, ka	y program with the	il la se se la faite	Leijdunaksi denik	Freq Offso 0 ⊦
Start 150 Res BW	kHz 10 kHz		#VBW	30 kHz			Sweep 2	Stop 30 85.4 ms (3	0.00 MHz 3001 pts)	
SG							-	DC Cou		

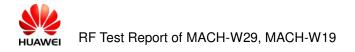
		m Analyzer - S								
LXI RI		RF 50 eq 1.1650	.U7	SEN	ISE:INT		ALIGN AUTO : Log-Pwr		4 Jan 17, 2018 E <mark>1 2 3 4 5 6</mark>	Frequency
Cer		eq 1. 1050	PNO: Fast 🕞 FGain:Low	Trig: Free #Atten: 40		Avg Hold:		TYP		
10 dE Log	3/div	Ref Offset 0 Ref 20.00					Mkr	1 2.206 -47.4	65 GHz 78 dBm	Auto Tune
10.0										Center Freq 1.165000000 GHz
0.00 -10.0										Start Freq 30.000000 MHz
-20.0 -30.0									-23.83 dBm	Stop Freq 2.300000000 GHz
-40.0									1	CF Step 227.000000 MHz <u>Auto</u> Man
-50.0 -60.0	<mark>Alta olda Alta Pa</mark> n Apisar Alta A		an ya daga wana sa ya far pana sa ka ka ka ka Mana ya ka ƙafar ta ƙasar ya ƙasar ya ƙasar ya	a tana da kata da kata Na sa da kata da	i pa ingeni na nga kangan _{Nga} ngangan ngangangan Ngangangan ngangangan ngangangan ngangangangangangangangangangangangangan		i se internet de la company		i, na hirologi kayat bu da kayata Bana kayat kayata bu da kayata	Freq Offset 0 Hz
-70.0										
	t 30 M							Stop 2	.300 GHz	
	s BW 1	00 kHz	#VBW	/ 300 kHz					8001 pts)	
MSG							STATUS	3		



		n Analyzer - Sw									
LXI RL Cent		RF 50 ຊ ຊ 2.3500	AC 00000 GH	lz		ISE:INT	Avg Type	ALIGN AUTO : Log-Pwr	TRAC	Ч Jan 17, 2018 ^{)E} <mark>1 2 3 4 5 6</mark>	Frequency
		•	P	NO: Fast 🛛 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Hold:	>200/200	TY D		
10 dB		Ref Offset 0. Ref 20.00						Μ	kr1 2.40 -46.4	0 0 GHz 67 dBm	Auto Tune
	NULA										
40.0											Center Freq
10.0 -											2.350000000 GHz
0.00											
											Start Freq
-10.0											2.300000000 GHz
-20.0											
-20.0										-23.83 dBm	Stop Freq
-30.0											2.40000000 GHz
											CE Oton
-40.0										1 <mark>/</mark> 1	CF Step 10.000000 MHz
-50.0											<u>Auto</u> Man
00.0	nvyhada	Milerungiant	1914L-P-(748-4-1-1-12/12)	₿₽₽₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	'n_I₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	₽ ╣┶ ╋┚ ᠺ ᡍᡗᢂᡃᠲᡌᡀᡣᡗᡪᢢ		Ye-Allandara.eladadh	AND AND AND AND AND A	WWWWWWWW	
-60.0											Freq Offset
											0 Hz
-70.0 -											
		00 GHz 00 kHz		#\/D\A	300 kHz			Sween	Stop 2.40 9.600 ms (0000 GHz	
MSG		00 KH2		#000	JUU KHZ			Sweep		roor pisj	

Agilent Spectr	um Analyzer - Swept S		OF NOT AN IT		11,00,00 (Miles 17,0010	
	RF 50 Ω A req 2.4917500	000 GHz PNO: Fast 🖵	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>200/200	11:33:08 AM Jan 17, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P	Frequency
10 dB/div	Ref Offset 0.5 dE Ref 20.00 dBr	IFGain:Low	#Atten: 40 dB	Mkr1 2	.489 990 0 GHz -33.156 dBm	Auto Tune
10.0						Center Fre 2.491750000 GH
0.00						Start Fre 2.483500000 GH
30.0			1		-23.83 dBm	Stop Fre 2.500000000 GH
40.0	& Margan and International providence of the second s	atoma and	How may and a second	wantoon the state of the		CF Ste 1.650000 M⊢ <u>Auto</u> Ma
60.0 						Freq Offs 0 ⊦
	3500 GHz 100 kHz	#VBW	300 kHz	Sweep	top 2.500000 GHz 1.600 ms (601 pts)	
SG				STATUS		





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.

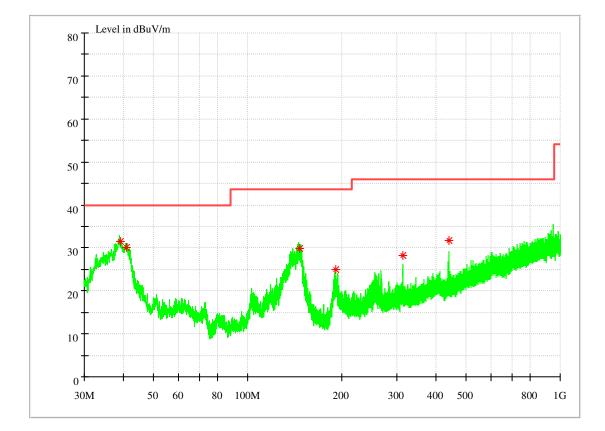
The simultaneous transmission has been considered

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)
39.066800	32.87	40.00	7.13	100.0	V	298.0	17.1
40.969980	30.95	40.00	9.05	100.0	V	50.0	17.6
146.268060	31.35	43.50	12.15	100.0	V	302.0	12.9
190.892280	24.34	43.50	19.16	148.0	Н	269.0	12.0
313.789880	26.12	46.00	19.88	100.0	Н	10.0	16.9
439.316520	29.14	46.00	16.86	100.0	V	35.0	19.2

Note:

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

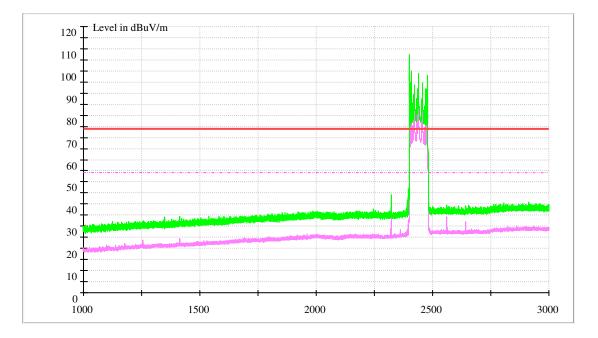
2, Margin=Limit - Level

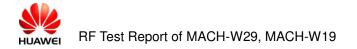
1.3 Part 3: Testing Range of "1GHz to 3GHz"

- 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 μ V/m) and Average Limit (54 dB μ V/m).

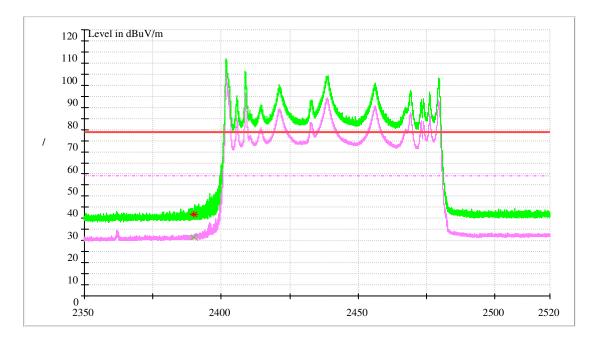
Note 3: The peak spike exceeds the limit line is EUT's operating frequency. Test Mode:

1.3.1Test Mode:TM1





1.3.1.1 Channel 0



MEASUREMENT RESULT: AV Detector

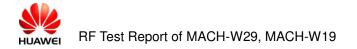
Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h (deg)	(dB)
2390.000000	26.55	54.00	27.45	150.0	Н	180.0	-8.5
MEASUREMENT	RESULT: PK De	tector					
Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h (deg)	(dB)
2390.000000	36.82	74.00	37.18	150.0	Н	212.0	-8.5

Note:

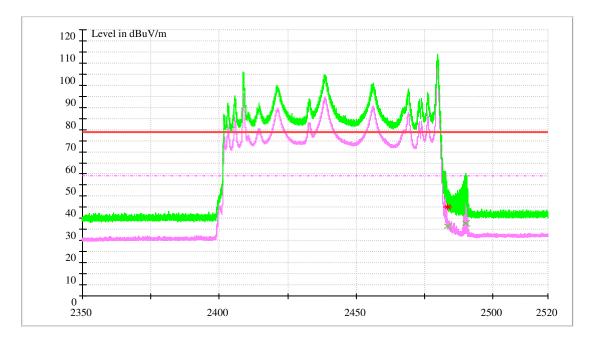
1, Level =Reading level by receiver + Transd (Antenna factor + cable loss - preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level



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 (deg)	(dB)
2483.5000	31.54	54.00	22.46	150.0	Н	203.0	-6.8

MEASUREMENT RESULT: PK Detector

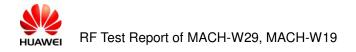
Frequency	Level	Limit	Margin	Height	Pol	Azimut	Transd.
(MHz)	(dBµ V/m)	(dBµ V/m)	(dB)	(cm)		h (deg)	(dB)
2483.5000	40.19	74.00	33.81	150.0	Н	203.0	-6.8

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)

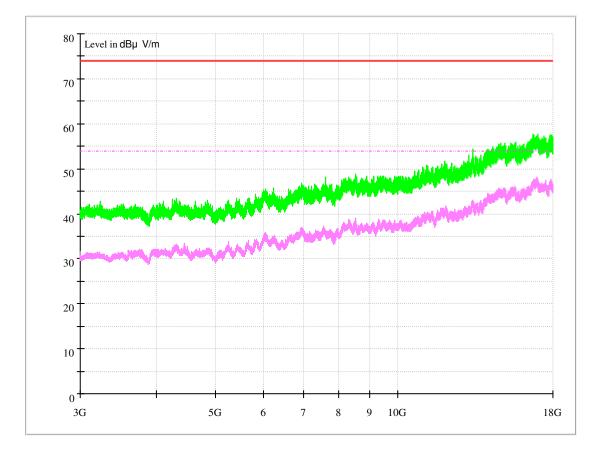
The reading level is calculated by software which is not shown in the sheet.

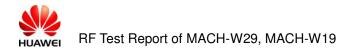
2, Margin=Limit - Level



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

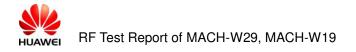
- Note 1: The test results and plot for testing range of "3 GHz to 18 GHz" showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of "3 GHz to 18 GHz" is for checking radiated emissions located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





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

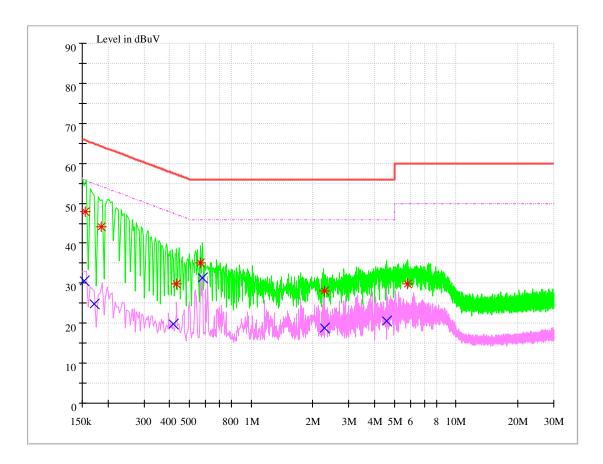
NOTE: No peak found in the Test Range of "18 GHz to 26.5GHz"



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



MEASUREMENT RESULT: AV Detector

Frequency (MHz)	Level (dBµ V)	Limit (dBµ V)	Transd. (dB)	Margin (dB)	Line	PE
0.153503	30.53	55.81	9.7	25.28	L1	FLO
0.172518	24.82	54.84	9.7	30.02	Ν	FLO
0.419238	19.77	47.46	9.7	27.70	Ν	FLO
0.577296	31.28	46.00	9.7	14.72	Ν	FLO
2.293174	18.80	46.00	9.7	27.20	Ν	FLO
4.594049	20.51	46.00	9.8	25.49	L1	FLO

Frequency (MHz)	Level (dBµ V)	Limit (dBµ V)	Transd. (dB)	Margin (dB)	Line	PE
0.155498	47.94	65.70	9.7	17.76	Ν	FLO
0.186288	44.01	64.20	9.7	20.19	L1	FLO
0.430122	29.74	57.25	9.7	27.51	Ν	FLO
0.567565	35.12	56.00	9.7	20.88	L1	FLO
2.288881	27.99	56.00	9.7	28.01	L1	FLO
5.777148	29.81	60.00	9.8	30.19	L1	FLO

MEASUREMENT RESULT: PK Detector

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level

END