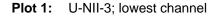


Plots: n HT20 - mode



Spectrum SGL Count 1/1 TDF ⊖1Rm Clrw M1[1] -5.81 dBm 5.750400 GHz 0 dBm-M1 -10 dBm--20 dBm--30 dBm--40 dBm--50 dBm--60 dBm--70 dBm--80 dBm-CF 5.745 GHz 161 pts Span 30.0 MHz

Date: 13.JUN.2019 09:43:29

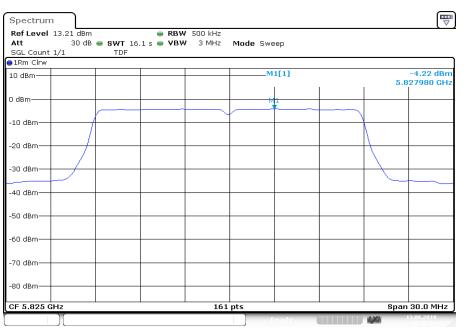
Plot 2: U-NII-3; middle channel

(₩) Spectrum Ref Level 11.96 dBm 👄 RBW 500 kHz 30 dB • SWT 16.1 s • VBW 3 MHz TDF Att SGL Count 1/1 Mode Sweep ⊖1Rm Clrw M1[1] -5.12 dBm 5.787800 GHa 0 dBm--10 dBm--20 dBm--30 dBm--40 dBm--50 dBm--60 dBm--70 dBm--80 dBm-CF 5.785 GHz Span 30.0 MHz 161 pts

Date: 13.JUN.2019 09:49:20



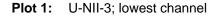
Plot 3: U-NII-3; highest channel



Date: 13.JUN.2019 09:55:13



Plots: n HT40 - mode



Spectrum 55 dBm ● RBW 500 kHz 20 dB ● SWT 24 s ● VBW 3 MHz Mode Sweep Ref Level 4.55 dBm Att SGL Count 1/1 TDF ⊖1Rm Clrw M1[1] -11.38 dBm 5.758380 GHz 0 dBm-М1 -10 dBm--20 dBm--30 dBm— -40 dBm--50 dBm--60 dBm--70 dBm--80 dBm--90 dBm-CF 5.755 GHz 240 pts Span 60.0 MHz

Date: 12.JUN.2019 21:36:32

Plot 2: U-NII-3; highest channel

(₩) Spectrum Ref Level 5.79 dBm 🔵 RBW 500 kHz 25 dB • SWT 24 s • VBW 3 MHz L TDF Att SGL Count 1/1 Mode Sweep ●1Rm Clrw M1[1] -10.60 dBm 5.791880 GHa 0 dBm· м1 -10 dBm--20 dBm--30 dBm--40 dBm--50 dBm--60 dBm--70 dBm--80 dBm--90 dBm-CF 5.795 GHz 240 pts Span 60.0 MHz

Date: 27.JUN.2019 16:31:36



11.6 Minimum emission bandwidth for the band 5.725-5.85 GHz

Description:

Measurement of the 6 dB bandwidth of the modulated signal.

Measurement:

Measureme	nt parameter				
According to: KD	B789033 D02, C.2.				
Detector:	Peak				
Sweep time:	Auto				
Resolution bandwidth:	100 kHz				
Video bandwidth:	300 kHz				
Span:	40 MHz				
Measurement procedure:	Using marker to find -6dBc frequencies				
Trace mode:	Max hold (allow trace to stabilize)				
Used test setup: See chapter 6.4 – A					
Measurement uncertainty:	See chapter 8				

Limits:

FCC	IC
The minimum 6 dB bandwid	Ith shall be at least 500 kHz.

Test report no.: 1-8662/19-02-03-A



Results:

	6	dB emission bandwidth (MHz)
	l	J-NII-3 (5725 MHz to 5850 MHz)
а	Lowest channel	Middle channel	Highest channel
	16.633	16.603	16.573

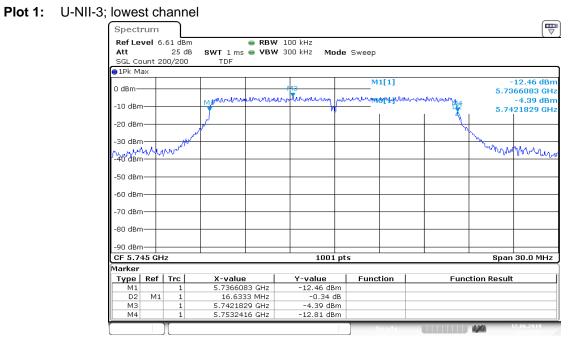
Results:

	e	6 dB emission bandwidth (MHz	()					
n HT20	U-NII-3 (5725 MHz to 5850 MHz)							
11120	Lowest channel	Middle channel	Highest channel					
	17.862	17.832	17.862					

	6 dB emission b	oandwidth (MHz)				
n HT40	U-NII-3 (5725 MHz to 5850 MHz)					
11 11 40	Lowest channel	Highest channel				
	36.683	36.623				



Plots: a - mode



Date: 12.JUN.2019 20:35:33

Plot 2: U-NII-3; middle channel

Spectr	um										
Ref Lev	el 7				100 kHz						
Att		25 d	- 0111 21112	👄 VBW	300 kHz Mc	de Si	weep				
SGL Cou		00/200	TDF								
😑 1Pk Ma	×										
					MB		M1[1]			-10.19 dBm
0 dBm—					X					5.73	766385 GHz
-10 dBm-			Manner	www.	mound	provin	www.mage	Maria	man war with		-3.22 dBm
-10 ubiii									⊼ _	5.7	321829 GHz
-20 dBm-			1								
									<u>`</u>	the state	
-30 dBm-	A. 10	M	V							What we have	mm
mynn	νųν	PHP								1 1 VV	wwww
-40 dBm·											
-50 dBm·											
-60 dBm-											
-00 ubiii-											
-70 dBm-											
70 abiii											
-80 dBm-	_				_						
-90 dBm-											
CF 5.78	5 GH	lz			1001	pts				Spar	n 30.0 MHz
Marker											
Туре	Ref	Trc	X-value		Y-value		Functio	n	Fund	ction Resul	t
M1		1	5.77663		-10.19 dB						
D2	M1	1		B1 MHz	-1.57 c						
M3		1	5.78218		-3.22 dB						
M4		1	5.79324	16 GHz	-11.76 dB	m					
							Rea	d y		100	12.06.2019

Date: 12.JUN.2019 20:41:32



Plot 3: U-NII-3; highest channel

Spectrum						
Ref Level 🔅			W 100 kHz			
Att	25 dB	SWT 1 ms 👄 VB	W 300 kHz Mo	de Sweep		
SGL Count :	200/200	TDF				
●1Pk Max						
			мз	M1[1]		-8.92 dBm
0 dBm		Minnaport		1 x 1 4 x	and the short short	5.8166385 GHz
-10 dBm		1 Callenge Conner Conner Conner	manning	www.un-issestarta	monument	-2.44 dBm 5.8221829 GHz
-10 dBm						5.8221829 GHz
-20 dBm		/			1	
20 abiii	About	T I				n han
ᡁ᠍ᡘᡆᡛᡟᡕᠵᡯ	mont					Many Abord and and
4.4						
-40 dBm						
-50 dBm						
-60 dBm						
-00 ubiii						
-70 dBm						
-80 dBm —						
CF 5.825 G	Hz		1001	nts		Span 30.0 MHz
larker				_		
Type Ref	Trc	X-value	Y-value	Function	Eune	ction Result
M1	1	5.8166385 GHz	-8.92 dB			*
D2 M1	L 1	16.5734 MHz	-0.11 c	в		
MЗ	1	5.8221829 GHz	-2.44 dB			
M4	1	5.8332119 GHz	-9.03 dB	n		
	1			Ready	(111111)	12.06.2019

Date: 12.JUN.2019 20:47:20



Plots: n HT20 - mode

Plot 1: U-NII-3; lowest channel

Spectrum						
Ref Level 6 Att SGL Count 2	25 dB	● RBV SWT 1 ms ● VBV TDF	V 100 kHz V 300 kHz Mode	Sweep		
• 1Pk Max 0 dBm	Ν	-	N3 Walandra May M	M1[1]	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	-12.07 dBm 5.7360092 GHz -5.31 dBm 5.7420631 GHz
-20 dBm	and and a					
чф°автала -50 dBm	Y~4/`					WWWWWWWWWWW
-60 dBm						
-90 dBm CF 5.745 GH	łz		1001 pt	s		Span 30.0 MHz
Marker Type Ref M1 D2 M1 M3 M4	1	X-value 5.7360092 GHz 17.8621 MHz 5.7420631 GHz 5.7538714 GHz	Y-value -12.07 dBm -0.69 dB -5.31 dBm -12.76 dBm	Function	Functio	n Result
1014)[5.7558714 GHZ	-12.70 UBM	Ready		a 13.06.2019

Date: 13.JUN.2019 09:42:06

Plot 2: U-NII-3; middle channel

0 dBm 10 dBm -10.86 dBm -10 dBm -10.86 dBm -4.47 dBm -20 dBm -5.7760092 GHz -5.7820631 GHz -30 dBm -7.774 dBm -7.774 dBm -30 dBm -7.774 dBm -7.774 dBm -50 dBm -7.774 dBm -7.774 dBm -60 dBm -7.774 dBm -7.774 dBm -70 dBm -7.7755 GHz 1001 pts Span 30.0 MHz -7.742 dBm	Spectrum									
0 dBm -10.86 dBm -10 dBm -10.86 dBm -20 dBm -4.7 dBm -30 dBm -5.7820631 GHz -30 dBm -10.86 dBm -50 dBm -10.86 dBm -60 dBm -10.86 dBm -70 dBm -10.86 dBm -80 dBm -10.86 dBm -90 dBm -10.86 dBm <t< td=""><td>Att</td><td>25 dB</td><td>SWT 1 ms</td><td></td><td></td><td>de Sweep</td><td></td><td></td><td></td><td></td></t<>	Att	25 dB	SWT 1 ms			de Sweep				
0 dBm 5.7760092 GHz -10 dBm 5.7760092 GHz -4.47 dBm 5.7820631 GHz -4.47 dBm	●1Pk Max									
-10 dBm	0 dBm				M3				5.73	760092 GHz
-30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -60 dBm -70	-10 dBm		Marken have a for	1 march	un un un	mh-mh-mh-mh		waanna waarta		
Mmm Mmm Mmm Mmm Mmm Mmm -50 dBm - - - - - -50 dBm - - - - - -60 dBm - - - - - -60 dBm - - - - - -70 dBm - - - - - -70 dBm - - - - - -80 dBm - - - - - -80 dBm - - - - - -90 dBm - - - - - Type Ref Trc X-value Y-value Function The interval 0.37 dB - - - M1	-20 dBm	al	r ⁴						h.	
-50 dBm			_		+				1	
-60 dBm -70 dBm -70 dBm -70 dBm -80 dBm -90	40 dBm	ww							Wryth	Murral
-70 dBm -80 dBm -90 dBm -9	-50 dBm									
Bold Bm	-60 dBm									
-90 dBm -90 dBm Image: CF 5.785 GHz Span 30.0 MHz CF 5.785 GHz 1001 pts Span 30.0 MHz Warker Yorker Function Function Result M1 1 5.7760092 GHz -10.86 dBm Function Result M1 1 17.8319 MHz 0.37 dB Function Result M3 1 5.7820631 GHz -4.47 dBm Function Result	-70 dBm									
CF 5.785 GHz 1001 pts Span 30.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 5.7760092 GHz -10.86 dBm -0.37 dB -0.37 dB -0.37 dB -0.447 dBm -0.47 dBm -0.	-80 dBm									
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 5.7760092 GHz -10.86 dBm <td>-90 dBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-90 dBm									
Type Ref Trc X-value Y-value Function Function Result M1 1 5.7760092 GHz -10.86 dBm D2 M1 1 17.8319 MHz 0.37 dB M3 1 5.7820631 GHz -4.47 dBm	CF 5.785 G	Hz			1001	pts			Spar	n 30.0 MHz
M1 1 5.7760092 GHz -10.86 dBm D2 M1 1 17.8319 MHz 0.37 dB M3 1 5.7820631 GHz -4.47 dBm	Marker									
D2 M1 1 17.8319 MHz 0.37 dB M3 1 5.7820631 GHz -4.47 dBm	Type Ref	Trc	X-value				tion	Func	tion Resul	t
M3 1 5.7820631 GHz -4.47 dBm										
Deady 13.05.2019										
		7	1.1500112		22110 001		Popdy		4.94	13.06.2019

Date: 13.JUN.2019 09:47:57



Plot 3: U-NII-3; highest channel

Spectrum						
Ref Level 8 Att SGL Count 2	25 dB	● RB SWT 1 ms ● VB TDF	W 100 kHz W 300 kHz Mod	le Sweep		(·
1Pk Max						
0 dBm			M3	M1[1]	l homentamentaria	-10.75 dBr 5.8160092 GH -3.41 dBr
-10 dBm	IN	Anno and	240.00 ml www.			5.8220631 GH
-20 dBm	لسمي	/				
-30 dBm 	VIV VIV					Lower Maryer
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
CF 5.825 GH	17		1001			Span 30.0 MHz
larker	12		1001			3puil 30.0 MHz
Type Ref	Trc	X-value	Y-value	Function	Eun	ction Result
M1	1	5.8160092 GHz				scion ressuit
D2 M1	1	17.8621 MHz	-1.10 dE	1		
MЗ	1	5.8220631 GHz	-3.41 dBm	1		
M4	1	5.8338714 GHz	-11.85 dBm	1		
)[Read		13.06.2019

Date: 13.JUN.2019 09:53:50



Plots: n HT40 - mode

Plot 1: U-NII-3; lowest channel

Spectrum						
Ref Level -	0.45 dBm	•	RBW 100 kHz			· · · · ·
Att	15 dB		VBW 300 kHz M	o de Sweep		
SGL Count 2	200/200	TDF				
1Pk Max						
				M1[1]		-21.52 dBn
-10 dBm			and the second sec		tation and the second	5.7365985 GH
	M	umuntumuntum	arrent by the second by	Person and the state of the second	Hanney Monte Wat	-10.67 dBn
-20 dBm —					- i 🛣	5.7596754 GH
	1	'			ι Ι	
-30 dBm	کلی				1	
40 dBm						14
multimental	and					Wordownald
-50 dBm						1.10.0.0.000000000000000000000000000000
-60 dBm						
-70 dBm —						
.80 dBm						
80 aBm						
.90 dBm						
CF 5.755 GH	17					Span 60.0 MHz
larker			F	-		
Type Ref	Trc	X-value	Y-value	Function	Functio	n Result
M1	1	5.7365985 GHz	-21.52 dBm			
D2 M1	1	36.6833 MHz	0.99 dB			
MЗ	1	5.7596754 GHz	-10.67 dBm			
M4	1	5.7732818 GHz	-20.53 dBm			

Date: 12.JUN.2019 21:35:03

Plot 2: U-NII-3; highest channel

Spect	um								٩
Ref Le	vel O	.79 dBr	n	🖷 RB	W 100 kHz				L
Att		20 d	B SWT 1.	1 ms 👄 🛛 🛛	W 300 kHz N	lode Swe	еер		
SGL Co	unt 2	00/200	TDF				-		
😑 1Pk Ma	эх								
						МЗ	M1[1]		-16.60 dB
-10 dBm									5.7766584 GI
-10 UBII			Mannewark	home	Anno manager	Management	MBCTT	hannerspectures	
-20 dBm			1						Å 5.7984763 GI
			1		0	·			ι,
-30 dBm			A				_		4
		فمحمد	·						146 C
748.98m	awat	WWW.							"" week below the post of the
· · ·									
-50 dBm									
-60 dBm									
-70 dBm							_		
-80 dBm									
-90 dBm									
CF 5.79	95 GH	IZ			1001	pts			Span 60.0 MH
Marker									
Туре	Ref	Trc	X-va		Y-value		nction	Func	tion Result
M1		1		6584 GHz	-16.60 dBr				
D2	M1	1		5234 MHz	0.24 d				
M3 M4		1		4763 GHz 2818 GHz	-9.39 dBr -16.35 dBr				
			5.813	2010 GH2	-10.35 UBI				
		П					Ready		27.06.2019

Date: 27.JUN.2019 16:20:24



11.7 Spectrum bandwidth / 26 dB bandwidth

Description:

Measurement of the 26 dB bandwidth of the modulated signal.

Measurement:

Measureme	nt parameter							
According to: KDB789033 D02, C.1.								
Detector:	Peak							
Sweep time:	Auto							
Resolution bandwidth:	1% EBW							
Video bandwidth:	≥ RBW							
Span:	> Complete signal							
Trace mode:	Max hold							
Used test setup:	Jsed test setup: See chapter 6.4 – A							
Measurement uncertainty:	see chapter 8							

Limits:

Spectrum Bandwidth – 26 dB Bandwidth

IC: Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

FCC: Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

		26 dB band	width (MHz)	
	l	J-NII-1 (5150 MI	Hz to 5250 MHz)
	Lowest channel	Middle	channel	Highest channel
	25.924	20.4	480	22.977
	Lowest frequency	/	F	lighest frequency
	5166.763			5252.637
	U	-NII-2A (5250 M	Hz to 5350 MHz	z)
	Lowest channel	Middle	channel	Highest channel
а	20.330	20.0	080	20.030
	U	-NII-2C (5470 M	Hz to 5725 MHz	z)
	Lowest channel	Middle	channel	Highest channel
	20.180	20.0	080	20.130
	L	J-NII-3 (5725 MI	Hz to 5850 MHz	
	Lowest channel	Middle	channel	Highest channel
	19.980	25.2	275	28.721
	Lowest frequency	/	F	lighest frequency
	5735.010			5838.736

Test report no.: 1-8662/19-02-03-A





		26 dB band	width (MHz)						
	L	J-NII-1 (5150 MI	Hz to 5250 MHz)					
	Lowest channel	Middle	channel	Highest channel					
	20.629	20.0	630	20.679					
	Lowest frequency	/	F	lighest frequency					
	5169.561			5250.290					
	U-NII-2A (5250 MHz to 5350 MHz)								
	Lowest channel	Middle	channel	Highest channel					
n HT20	20.630	20.	530	20.480					
	U-NII-2C (5470 MHz to 5725 MHz)								
	Lowest channel	Middle	channel	Highest channel					
	20.629	20.4	480	20.629					
	L	J-NII-3 (5725 MI	Hz to 5850 MHz						
	Lowest channel	Middle	channel	Highest channel					
	20.729	20.	729	20.780					
	Lowest frequency	/	Highest frequency						
	5734.560			5835.240					

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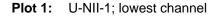
Test report no.: 1-8662/19-02-03-A

		26 dB band	width (MHz)					
	L	J-NII-1 (5150 MI	Hz to 5250 MHz)				
	Lowest channel			Highest channel				
	41.658		41.459					
	Lowest frequency	/	F	lighest frequency				
	5169.021		5250580					
	U-NII-2A (5250 MHz to 5350 MHz)							
	Lowest channel		Highest channel					
n HT40	41.259			41.559				
	U-NII-2C (5470 MHz to 5725 MHz)							
	Lowest channel	Middle	channel	Highest channel				
	41.159	41.3	359	41.359				
	L	J-NII-3 (5725 MI	Hz to 5850 MHz)					
	Lowest channel		Highest channel					
	41.359		41.559					
	Lowest frequency	/	Highest frequency					
	5734.421			5815.580				





Plots: a - mode



Spectrum ● RBW 300 kHz
SWT 1 ms ● VBW 1 MHz
TDF RefLevel 6.97 dBm Att 25 dB Att 25 dB SGL Count 200/200 Mode Sweep ⊖1Pk Max M1[1] 26.19 dBr 0 dBm-5.1667630 GHz 0.60 dBm M3[1] -10 dBm-5.1822479 GH -20 dBmym Ma w. Inner -30 dBmwork "#ordBm— Yest we have -50 dBm--60 dBm--70 dBm--80 dBm--90 dBm-Span 50.0 MHz CF 5.18 GHz 1001 pts Marker X-value 5.166763 GHz 25.9241 MHz 5.1822479 GHz 5.1926871 GHz Y-value -26.19 dBm -0.49 dB 0.60 dBm -26.67 dBm Type Ref Trc Т Function Function Result M1 D2 M3 Μ1 Μ4 IXI

Date: 12.JUN.2019 19:36:07

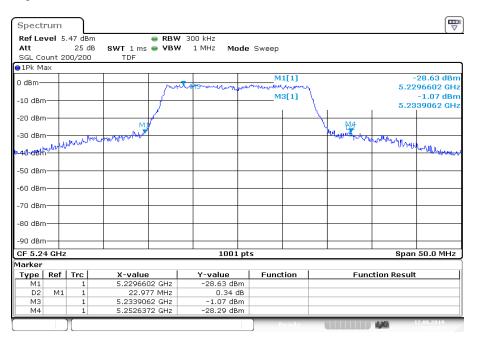
Plot 2: U-NII-1; middle channel

Spectrum	ſ											
Ref Level 6.17	dBm		RBW	300 kHz								
Att 2	5 dB S	WT 1 ms	🕳 VBW	1 MHz Mo	de	Sweep						
SGL Count 200/	200	TDF										
●1Pk Max												
a 1a				•		M	1[1]					26.91 dBm
0 dBm			purch	where where we have a series of the series o	Lun M	mound	1.0000	٦			5.209	06102 GHz
-10 dBm			1			M	3[1]	Υ.				0.28 dBm
-10 0011			1					Δ.	ı		5.217	8022 GHz
-20 dBm			f					<u>\</u>				
		MI						8	4			
-30 dBm	Jun and market	world and a faith and a faith and a faith and a faith a		-					a destroying	Marth		
-30 dBm	(INT										and when	makenthequession
~40°dBm												- ot officers
-50 dBm												
-30 ubiii												
-60 dBm					<u> </u>							
-70 dBm				_						_		
-80 dBm				-						-		
-90 dBm												
CF 5.22 GHz				1001	pts						Span 🗄	50.0 MHz
Marker												
Type Ref Tr	c	X-value		Y-value		Func	tion		Fu	nction R	esult	
M1	1	5.209610		-26.91 dB								
D2 M1	1	20,479		-0.19 c								
M3	1	5.217802		0.28 dB								
M4	1	5.230089	7 GHz	-27.10 dB	m							
						R	eady	(1,70	12	.06.2019

Date: 12.JUN.2019 19:41:33



Plot 3: U-NII-1; highest channel



Date: 12.JUN.2019 19:47:03

Plot 4: U-NII-2A; lowest channel

Spectrum						
Ref Level 5 Att SGL Count 20	25 dB	● RBN SWT 1 ms ● VBN TDF	W 300 kHz W 1 MHz Mode	• Sweep		X
●1Pk Max						
0 dBm		, and	mon	M1[1]	<u></u>	-29.55 dBm 5.2496604 GHz
-10 dBm				M3[1]	\	-0.56 dBm 5.2641459 GHz
-20 dBm		M			- N#	
-30 dBm	. utr	My hurrish May the			Howhan	we do the work on the work of the
-30 dBm എലർളന്ന്	Veren					an work When we when
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
-90 dBm						
CF 5.26 GHz			1001 pt	s		Span 50.0 MHz
Marker						
Type Ref	Trc	X-value	Y-value	Function	Fu	nction Result
M1	1	5.2496604 GHz	-29.55 dBm			
D2 M1	1	20.3295 MHz	2.13 dB			
M3 M4	1	5.2641459 GHz 5.2699899 GHz	-0.56 dBm			
1714	1	2.2049899 GHZ	-27.41 dBm		I	
	Л			Ready		12.06.2019

Date: 12.JUN.2019 19:53:46



Plot 5: U-NII-2A; middle channel

Spectrum							(V
Ref Level 4			300 kHz				
Att	20 dB	SWT 1 ms 👄 VI	3W 1 MHz Mod	e Sweep			
SGL Count 2	200/200	TDF					
1Pk Max							
0 dBm			monumen	M1[1]			-27.78 dBn 398601 GH:
10.10			and a commentation of the	M3[1]		5.20	-1.69 dBn
-10 dBm				mo[1])	5.30	040957 GH
-20 dBm					<u> </u>		
20 02		M M			M		
-30 dBm —						urun wyuld	
	approxim	Magana War			moundally	upurner .	.
-40 dBm	sty uv v	mounter				- have	anny.
50 dBm							· · · · · · · · · · · · · · · · · · ·
-30 ubiii							
-60 dBm							
-70 dBm							
-80 dBm							
-80 aBm							
-90 dBm							
CF 5.3 GHz			1001 p	its		Spar	1 50.0 MHz
1arker			1	1			
Type Ref M1	Trc 1	X-value 5.2898601 GH;	Y-value 2 -27.78 dBm	Function	Fur	iction Result	t
D2 M1	1	20.0801 MH;					
M3	1	5.3040957 GH:					
M4	1	5,3099402 GH;					

Date: 12.JUN.2019 20:00:18

Plot 6: U-NII-2A; highest channel

Spectrum								
Ref Level 3 Att SGL Count 2	20 dB	● RB SWT 1 ms ● VB TDF	W 300 kHz W 1 MHz Mo	de Swe	ер			× ×
●1Pk Max								
0 dBm		ر مىر	en and and and and and and and and and an	mm		1	5.3	-28.41 dBn 099602 GH
-10 dBm					_M3[1]		5.3	-2.18 dBn 240960 GH
-20 dBm		My				-\		
-30 dBm		monter				Murer Mar	Au briend	
-40 dBm	www.www.w	blow d .			-		howwww	WM Korthe Jolyman
-50 dBm								
-60 dBm							_	
-70 dBm					_			
-80 dBm								
-90 dBm								
CF 5.32 GHz			1001	pts			Spa	n 50.0 MHz
Marker								
Type Ref	Trc	X-value	Y-value	Fu	inction	Fu	inction Resu	lt
M1	1	5.3099602 GHz						
D2 M1	1	20.03 MHz						
M3 M4	1	5.324096 GHz 5.3299901 GHz						
][Ready		1,00	12.06.2019

Date: 12.JUN.2019 20:05:49



Plot 7: U-NII-2C; lowest channel

Spectr												(🛛
Ref Lev Att	er 2	.93 aBm 20 dB			300 kHz		_					
			SWT 1 ms TDF	• VBW	1 MHZ M	4ode	Sweep					
SGL Cou 1Pk Ma		00/200	TUF									
-	×											-30.57 dBn
0 dBm—					manyme	3 1	IVI.	1[1]			5	-30.57 dBn 4898601 GH;
-10 dBm-				journo	a man a mala mate	James.		3[1]	<u>۲</u>		0.	-3.40 dBn
10 0.0111				ار				1.11)		5.	4976522 GH
-20 dBm-						_			-			
			M	ž –					- Ne	ŧ		
-30 dBm-			7						1			
40 d0m		an a Makak	hanner							munthly and	ملا	mal frager and
-40 ubm-	Jug M	March	mannelsouth							o odlovo	manundah	my produce a sure
-50 dBm-						_						
-60 dBm-						_						
-70 dBm-												
-70 aBm-												
-80 dBm-						_						
-90 dBm-												
CF 5.5 (10	01 pts					0	an 50.0 MHz
darker	IH2				10	JI pts	,				sp	an au.u MHz
	Ref	Trc	X-value	- 1	Y-value		Fund			F	ction Res	.14
M1	Rei	1	5,489860		-30,57		Func	.1011		Full	COULT KES	ant
D2	M1	1		.8 MHz	0.79							
MЗ		1	5.497652		-3.40							
M4		1	5.510040	01 GHz	-29.78	dBm						

Date: 12.JUN.2019 20:17:14

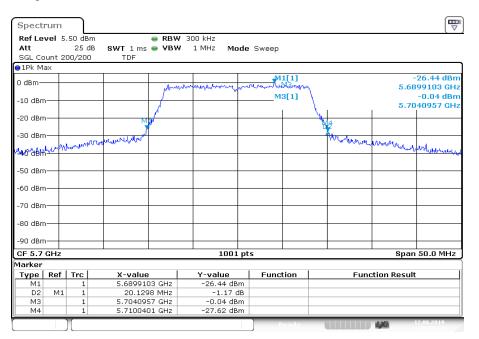
Plot 8: U-NII-2C; middle channel

Spectrum								
Ref Level 2 Att	20 dB	SWT 1 ms 👄 VB	W 300 kHz W 1 MHz Mo	ode S	weep			
SGL Count 2	00/200	TDF						
●1Pk Max					M1[1]			-31.30 dBm
-10 dBm		<u> </u>	and a second above	an a				898604 GHz -3.52 dBm 040960 GHz
-20 dBm		- w				w.t.	3.0	040900 GH
-30 dBm		M/				4		
-40 dBm	Way of the start o	Marthallor Share				My wange	and	W Var Walton
-50 dBm								m s an a for than an
-60 dBm								
-70 dBm								
-80 dBm								
-90 dBm							-	
CF 5.6 GHz			1001	pts			Spa	n 50.0 MHz
Marker								
Type Ref	Trc	X-value	Y-value		Function	Fur	nction Resu	lt
M1	1	5.5898604 GHz	-31.30 dB					
D2 M1	1	20.0796 MHz	1.59					
M3 M4	1	5.604096 GHz 5.60994 GHz	-3.52 dB -29.70 dB					
)[Ready		4,40	12.06.2019

Date: 12.JUN.2019 20:23:47



Plot 9: U-NII-2C; highest channel



Date: 12.JUN.2019 20:29:10

Plot 10: U-NII-3; lowest channel

Spectrum					
Ref Level 6.61 dBm Att 25 dB SGL Count 200/200	● RBW SWT 1 ms ● VBW TDF	300 kHz 1 MHz Mode	Sweep		X
1Pk Max					
0 dBm	ma	man the state of the second	M1[1]	\	-24.76 dBm 5.7350098 GHz
-10 dBm			M3[1]	$\sum_{i=1}^{n}$	1.36 dBm 5.7427021 GHz
-20 dBm					
-30 dBm	www.Millin			The stand of the s	at market when a few
-50 dBm					
-60 dBm					
-70 dBm					
-80 dBm					
-90 dBm					
CF 5.745 GHz		1001 pt	s		Span 50.0 MHz
Marker					
Type Ref Trc	X-value	Y-value	Function	Fun	iction Result
M1 1	5.7350098 GHz	-24.76 dBm			
D2 M1 1	19.9803 MHz	-1.12 dB			
M3 1 M4 1	5.7427021 GHz 5.7549901 GHz	1.36 dBm -25.88 dBm			
			Ready		12.05.2019

Date: 12.JUN.2019 20:35:08



Plot 11: U-NII-3; middle channel

•	m	4.4 - 10			300 kHz						(🗢
Ref Leve Att	91 Z.	44 aBm 25 dB	SWT 1 ms				_				
SGL Cour	+ 00		SWI 1 ms TDF	• vBw	1 MHz M	oae	Sweep				
1Pk Max	11 21	10/200	TUP								
лык мах	-		-			-					-26.06 dBn
) dBm—					a magain and in		M1	M8			5.7725624 GH
o donn				- f			мз	11			1.64 dBn
10 dBm-	_					_		· \			5.7897452 GH
				1			1	,	<u>\</u>		
-20 dBm—			M1	(N. 112		
		Am.	MI						Mywa	Mar .	
-30 dBm-	wor	append and								a wower	Andrewalter
AD dBm-											- mullimetrus
to ubm											
50 dBm-	_					_					
60 dBm—										-	
70 dBm—											
80 dBm—											
oo abiii											
-90 dBm—	_										
CF 5.785	GH	z			100	1 pts	5			S	pan 50.0 MHz
1arker											
Type F	ef	Trc	X-value		Y-value	1	Functi	on	Fu	nction Re	sult
M1		1	5.772562		-26.06 d						
	Μ1	1	25.274		1.23						
M3		1	5.78974		1.64 d						
M4		1	5.79783	73 GHz	-24.82 d	Bm					

Date: 12.JUN.2019 20:41:07

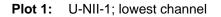
Plot 12: U-NII-3; highest channel

Ref Level 8.46 dBm RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep SGL Count 200/200 TDF 1 MHz Mode Sweep 5.8100152 GHz 1 Dk Max M3[1] 5.8100152 GHz 2.79 dBm -10 dBm M3[1] 5.8291958 GHz 2.79 dBm -20 dBm M3[1] 5.8291958 GHz 2.79 dBm -30 dBm Max Max 40 dBm 40 dBm -50 dBm Max Max 40 dBm 40 dBm -60 dBm Max Max Max Max -70 dBm Max Max Max Max -80 dBm Max Max Max Max Type Ref Tc X-value Y-value Function Max 1 5.8291958 GHz -24.38 dBm Max Max -20 dBm Max 1 5.8291928 GHz -24.38 dBm Max -20 dBm Max 1 5.8291928 GHz </th <th>Spect</th> <th>rum</th> <th></th>	Spect	rum													
SGL Count 200/200 TDF © IPk Max O dBm O d dBm <th colsp<="" td=""><td>Ref Le</td><td>vel 8</td><td>1.46 dB</td><td>m</td><td>RBW</td><td>300 kHz</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td>Ref Le</td> <td>vel 8</td> <td>1.46 dB</td> <td>m</td> <td>RBW</td> <td>300 kHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ref Le	vel 8	1.46 dB	m	RBW	300 kHz								
SGL Count 200/200 TDF • IPK Max • III[1] • -24.38 dBm 0 dBm • III[1] • -24.38 dBm -10 dBm • III[1] • -24.38 dBm -20 dBm • III[1] • -24.38 dBm -20 dBm • III[1] -30 dBm • III -30 dBm • IIII -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm -60 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -30 dBm	Att		25 c	B SWT 1 ms	vbw	1 MHz Mo	ode	Sweep							
0 dBm -24.38 dBm -10 dBm -279 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -40 dBm -50 dBm -40 dBm -70 dBm -70 dBm	SGL Co	ount 2	00/200												
0 dBm 5.8100152 GHz -10 dBm 2.79 dBm -20 dBm 5.8291958 GHz -30 dBm -4 -40 dBm -4 -50 dBm -4 -50 dBm -4 -60 dBm -4 -70 dBm -4 -80 dBm -4 -90 dBm -4 <td>●1Pk M</td> <td>ax</td> <td></td>	●1Pk M	ax													
0 dBm 5.8100152 GHz -10 dBm 2.79 dBm -20 dBm 5.8291958 GHz -30 dBm -4 -40 dBm -4 -50 dBm -4 -50 dBm -4 -60 dBm -4 -70 dBm -4 -80 dBm -4 -90 dBm -4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>M1</td> <td>[1]</td> <td></td> <td></td> <td></td> <td>-24.38</td> <td>dBm</td>								M1	[1]				-24.38	dBm	
-10 dBm	0 dBm-	_			Sures.	mon mark mon	, week	marchine	3mg			5	.810015	2 GHz	
-20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1								M3	[1]	ς			2.79	dBm	
-50 dBm	-10 dBn	∩——			5					1		5	.829195	B GHz	
-50 dBm					1					NI.					
-50 dBm	-20 dBn	י—⊢		-M1 , r	¥					- NHA					
-50 dBm				in which bely and and						1	MULTINE	Mitholy .			
-50 dBm	-30 dBn	Jun In	phphone in	**		-							MAMARA IN		
-50 dBm	www.ww	We i											1 4.0	Murro	
-50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -70 dBm -80	-40 dBn	ד ו												Ť	
-60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -70 dBm															
-70 dBm -70 dBm <t< td=""><td>-50 UBI</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-50 UBI														
-70 dBm -70 dBm <t< td=""><td>-60 dBn</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-60 dBn														
-80 dBm Image: CF 5.825 GHz 1001 pts Span 50.0 MHz Marker Image: CF 5.825 GHz 1001 pts Span 50.0 MHz Type Ref Trc X-value Y-value Function Result M1 1 5.8100152 GHz -24.38 dBm Image: CF 5.825 GHz Image: CF 5.825 GHz M3 1 28.7212 MHz 0.14 dB Image: CF 5.825 GHz Image: CF 5.825 GHz		'													
CF 5.825 GHz 1001 pts Span 50.0 MHz Marker	-70 dBn	י—⊢													
CF 5.825 GHz 1001 pts Span 50.0 MHz Marker															
Marker Y-value Function Function Result Type Ref Trc X-value Y-value Function M1 1 5.8100152 GHz -24.38 dBm Image: Comparison of the second seco	-80 dBn	∩——													
Marker Y-value Function Function Result Type Ref Trc X-value Y-value Function M1 1 5.8100152 GHz -24.38 dBm Image: Comparison of the second seco															
Marker Y-value Function Function Result Type Ref Trc X-value Y-value Function M1 1 5.8100152 GHz -24.38 dBm Image: Comparison of the second seco							-					-	50.0		
Type Ref Trc X-value Y-value Function Function Result M1 1 5.8100152 GHz -24.38 dBm		25 GF	1Z			1001	. pts					s	pan 50.0	MHZ	
M1 1 5.8100152 GHz -24.38 dBm D2 M1 1 28.7212 MHz 0.14 dB M3 1 5.8291958 GHz 2.79 dBm															
D2 M1 1 28.7212 MHz 0.14 dB M3 1 5.8291958 GHz 2.79 dBm		Ref					_	Functi	on		Fun	ction Re	sult		
M3 1 5.8291958 GHz 2.79 dBm															
		M1													
Mit I 5.6357304 GHZ -24.24 UBIII Pready 12.05.2019 Ready 12.05.2019 12.05.20															
Ready 12.06.2019	M4		1	5.838/3	UH GHZ	-24.24 aB	an								
	[][Re	ady			1,70	12.06.20	19	

Date: 12.JUN.2019 20:46:57



Plots: n HT20 - mode



Spectrum						
Ref Level 7	.27 dBm	e RB	W 300 kHz			· · · ·
Att	25 dB	SWT 1 ms 👄 VB	W 1 MHz Mode	e Sweep		
SGL Count 2	00/200	TDF				
●1Pk Max						
				_ M1[1]		-26.10 dBm
0 dBm		- press	man wow what	- And the states and the second	my	5.1695606 GHz
10 40-				M3[1]	- \	1.11 dBm
-10 dBm					- <u>\</u>	5.1833467 GHz
-20 dBm						
					t and the second se	
-30 dBm		teleter whether full			- Chillesterry	MARA LAN
-30 dBm 40 dBm	where we are a second					Mar
40°dBm						- markey
-50 dBm						
-60 dBm						
oo abiii						
-70 dBm						
-80 dBm						
-90 dBm			1001 p	-		Span 50.0 MHz
der 5.16 GHz Aarker			1001 þ			apan 50.0 MHz
	Trc	X-value	Y-value	Function	1 5	unction Result
Type Ref M1	1	5.1695606 GHz		Function	- FL	Inction Result
D2 M1	1	20.629 MHz				
M3	1	5.1833467 GHz				
M4	1	5.1901896 GHz	-25.60 dBm			
	1			Do andra	(1111)	13.06.2019

Date: 13.JUN.2019 08:47:08

Plot 2: U-NII-1; middle channel

Spectrum					
Ref Level 6.94 dB	m 🖷 RBV	V 300 kHz			L
Att 25 d	IB SWT 1 ms 👄 VBV	V 1 MHz Mode	Sweep		
SGL Count 200/200) TDF				
●1Pk Max					
		M3	M1[1]		-26.65 dBm
0 dBm	when	monor marine	www.	N.	5.2096604 GHz
-10 dBm			M3[1]	1	-0.27 dBm
-10 0.011			1	$-\lambda_1$	5.2206991 GHz
-20 dBm				<u> </u>	
	M J			₩ <u>4</u>	
-30 dBm	the design of			Province of	
-30 dBm Mor Bm	Arthelesines is a				mar mar and when many
-50 dBm					
-60 dBm					
-70 dBm					
-80 dBm					
00 dB					
-90 dBm		1001 pt	-		Span 50.0 MHz
		1001 pt	3		apail 30.0 MHz
Marker	X		Function		
Type Ref Trc	X-value 5,2096604 GHz	<u>-26.65 dBm</u>	Function	Fui	nction Result
D2 M1 1	20.6295 MHz	-20.05 UBM -0.71 dB			
M3 1	5.2206991 GHz	-0.27 dBm			
M4 1	5.2302899 GHz	-27.36 dBm			
					13.06.2019
			Ready		1 1 1 1 1 1 1 1 1 1

Date: 13.JUN.2019 08:52:50



Plot 3: U-NII-1; highest channel

Spectrum										
Ref Level 5				300 kHz						
Att	25 dB	SWT 1 ms	● VBW	1 MHz Mo	le Swee	c				
SGL Count 2	00/200	TDF								
●1Pk Max		,								
0 dBm				-		M1[1]				29.24 dBm
			mon	whiteson			m		5.22	96105 GHz
-10 dBm			(-		M3[1]	- \ - \		5.00	-1.27 dBm 51549 GHz
			(1	- λi -	1	0.20	01049 GHz
-20 dBm		Ma					14			
20 d8m							1			
-30 dBm	. A sound by	munup					hada	wrenn.	NOR AND A	1.
4648m	Net de Balencie	1.1.1				_			where the	a the work for my
-50 dBm —										-
-60 dBm										
-70 dBm										
-70 uBill										
-80 dBm										
-90 dBm						_				
CF 5.24 GHz				1001	nts				Snan	50.0 MHz
1arker										
Type Ref	Trc	X-value	1	Y-value	Eur	ction		Fund	tion Result	
M1	1	5.229610	5 GHz	-29.24 dBr		ocioni		. and		-
D2 M1	1	20.6792		0.96 di						
MЗ	1	5.235154	9 GHz	-1.27 dBr	1					
M4	1	5.250289	7 GHz	-28.28 dBr	1					
	1					n	6	1.1.1.1.1	130	13.06.2019

Date: 13.JUN.2019 08:58:27

Plot 4: U-NII-2A; lowest channel

Spectrum								
Ref Level 6 Att SGL Count 2	25 dB	● RB SWT 1 ms ● VB TDF	W 300 kHz W 1 MHz Mo	o de Sw	еер			
●1Pk Max								
0 dBm		nur -	M3 Marthurson	where		w.	5.24	27.76 dBm 96102 GHa
-10 dBm					_M3[1]	Δ_{1}		-1.10 dBm 50548 GHa
-20 dBm		M				14		
-30 dBm	n al barre	wather with				the way way	Arrantin	Maroustaly
-50 dBm								
-60 dBm								
-70 dBm								
-80 dBm								
-90 dBm								
CF 5.26 GHz	2	- I I	1001	pts			Span	50.0 MHz
Marker								
Type Ref	Trc	X-value	Y-value		unction	Fui	nction Result	
M1	1	5.2496102 GHz	-27.76 dB					
D2 M1	1	20.6295 MHz	0.40 (
M3 M4	1	5.2550548 GHz 5.2702397 GHz	-1.10 dB -27.35 dB					
)[]				Ready		4/0	3.06.2019

Date: 13.JUN.2019 09:03:59



Plot 5: U-NII-2A; middle channel

Spectrum									
Ref Level 4			BW 300 kH						
Att	20 dB	SWT 1 ms 👄 V	BW 1 MH	z Mode	Sweep				
SGL Count 2	00/200	TDF							
1Pk Max									
					M1	1[1]			-28.44 dBm
		فمر	www.www.bushi	henry	www.whall	wayour	~	5	.2897101 GHz
-10 dBm					M3	3[1]	1	_	-1.94 dBn
		1 1/					- A i	5	.2951050 GH
-20 dBm		M					à		
		¥					12		
-30 dBm		A start					N		
40 dBm	we want have	N and all all and and and and and and and and and a start and a					vy ww	harden and a	mar hun hun
here all and the									and an and the second
-50 dBm									
-60 dBm —									
-70 dBm									
-80 dBm									
-80 UBIII									
-90 dBm									
CF 5.3 GHz				1001 pt	5			s	pan 50.0 MHz
1arker			1						•
Type Ref		X-value		alue	Funct	ion		Function Re:	sult
M1 D2 M1	1	5.2897101 GH 20.5297 MH		8.44 dBm -0.01 dB					
M3 M1	1	5.295105 GH		-0.01 uB 1.94 dBm					
M4	1	5.3102397 GH		8.45 dBm					
		1.1102057 0.							

Date: 13.JUN.2019 09:13:34

Plot 6: U-NII-2A; highest channel

Spectrum						
Ref Level 4.9	0 dBm	🖷 RB	W 300 kHz			(
Att	20 dB	SWT 1 ms 👄 VB	W 1 MHz Mod	le Sweep		
SGL Count 200	0/200	TDF				
●1Pk Max						
0 dBm				<u>M3 M1[1]</u>		-29.03 dBn
		l l l l l l l l l l l l l l l l l l l	mound	www.man	γ,	5.3097600 GH
-10 dBm				M3[1]	1	-2.53 dBn 5.3232968 GH
				1	- Ni	3.3232908 GH
-20 dBm		м			N/4	
-30 dBm					12	
50 dbiii		السياميين			Mar In	
-40 dBm-4~	aparteles and	ppulling			- WARRING	Methowand wither will we
Creating and the						and well the
-50 dBm						
-60 dBm						
-70 dBm						
, o dbiii						
-80 dBm						
-90 dBm						
CF 5.32 GHz			1001	ots		Span 50.0 MHz
Marker						
	Trc	X-value	Y-value	Function	Fur	nction Result
M1	1	5.30976 GHz	-29.03 dBm			
D2 M1	1	20.48 MHz	0.07 dB	}		
M3	1	5.3232968 GHz	-2.53 dBm			
M4	1	5.33024 GHz	-28.96 dBm	1		
				Ready		13.06.2019

Date: 13.JUN.2019 09:18:55



Plot 7: U-NII-2C; lowest channel

Spectrun								(⊽
Ref Level				300 kHz	_			
Att SGL Count	20 d		; 👄 VBW	1 MHZ Mod	le Sweep			
1Pk Max	200/200	TDP						
-			1	No	M1[1]			-30.80 dBn
0 dBm——				7.			5.4	-30.80 dBn
-10 dBm			Junior	mannon	Munummunau M3[1]	mend	0.1	-4.14 dBn
20 0011			17			- \	5.4	951050 GH
-20 dBm—			1			\rightarrow		
		M	1			Ì\$∳		
-30 dBm—			,					
-40 dBm		كمصعبات ويقله				Ulman		
-40 dBm	man					- offer -	approx parts	mundung
-50 dBm								
-60 dBm—								
-70 dBm								
70 dbm								
-80 dBm—								
-90 dBm—								
CF 5.5 GH	z			1001	ots		Spa	n 50.0 MHz
1arker								
Type Re	f Trc	X-valu	e	Y-value	Function	Fu Fu	unction Resu	lt
M1	1	5.48956		-30.80 dBm				
	11 1		29 MHz	0.52 dB				
M3 M4	1	5.4951	05 GHz	-4.14 dBm -30.28 dBm				

Date: 13.JUN.2019 09:24:31

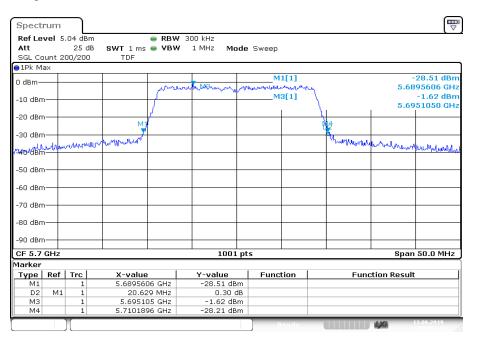
Plot 8: U-NII-2C; middle channel

Spectru	m)										
Ref Leve	1 2.99	dBm		● RBV	/ 300 kHz							`
Att	20) dB	SWT 1 ms	VBV	V 1 MHz Mo	ode	Sweep					
SGL Coun	it 200/2	200	TDF									
⊖1Pk Max												
0 dBm					M3		M	1[1]				-31.60 dBm
				ليهديهم	mohner	Alw	monor		m		5.5	397103 GHz
-10 dBm—	-			1			M	3[1]	- \			-4.64 dBm
-20 dBm—				1					\rightarrow		5.5	951549 GHz
-20 aBm—				/					٦,			
-30 dBm—			M						Ľ	4		
			1 7							4		
-40 dBm	. March	metre	for and the second							Marteresterstyl	milles Blauces	mound
											a the world	munum
-50 dBm—												
co do												
-60 dBm—												
-70 dBm—												
/ 0 0.D.III												
-80 dBm—	-											
-90 dBm—	+											
CF 5.6 GH	17				1001	nte						1 50.0 MHz
Marker	12				1001	. pts	,				эра	1 30.0 MHZ
	ef Tri	- 1	X-value		Y-value	- 1	Func	tion	1	Fun	ction Resul	•
Type R M1		1	5.589710		-31.60 dB	m	Func	uon		Fun	LUON RESU	ι
		1	20,479		-0.21 (
M3		1	5.59515		-4.64 dB							
M4		1	5.610189	98 GHz	-31.81 dB	m						
						1)	o a du	-		4.965	13.06.2019
)				a second	

Date: 13.JUN.2019 09:30:54



Plot 9: U-NII-2C; highest channel



Date: 13.JUN.2019 09:36:16

Plot 10: U-NII-3; lowest channel

Spectrum)								□
Ref Level 6.90	dBm	🖷 R	BW 300	l kHz					
		SWT 1 ms 👄 V	BW 1	MHz Mo	de Sweej	D			
SGL Count 200/:	200	TDF							
∋1Pk Max									
					<u>vi</u> 3 i	M1[1]			-28.52 dBm
0 dBm		m	mound	malliman	Autor March		ς.	5.7	345603 GHz
-10 dBm						M3[1]	1		-0.51 dBm
-10 ubiii		1					- N -	5.7	457495 GHz
-20 dBm		1							
		M					12		
-30 dBm						_	- A	5 B 1	
-30 dBm հայլ կամի համատ -40 dBm	volving	ay the color					. Mariana An	W day with the	whomper more
-50 dBm									
-60 dBm								_	
-70 dBm									
-80 dBm									
-90 dBm									
CF 5.745 GHz				1001	pts			Spa	1 50.0 MHz
Marker					•				
Type Ref Tr	cl	X-value	1	Y-value	Fun	ction	Fi	unction Resul	t
M1	1	5.7345603 GH	_	-28.52 dBr					-
D2 M1	1	20.7293 MH		1.43 d					
M3	1	5.7457495 GH	z	-0.51 dBr	n				
M4	1	5.7552896 GH	z	-27.09 dBr	n				
						Ready		4,00	13.06.2019

Date: 13.JUN.2019 09:41:41



Plot 11: U-NII-3; middle channel

Spectrum								
Ref Level 6			3W 300 kHz					
Att	25 dB	SWT 1 ms 👄 VI	BW 1 MHz N	1ode S	weep			
SGL Count 2	200/200	TDF						
1Pk Max		1 1						
) dBm				-	M1[1]		-	-27.71 dBn 7745106 GH
, abiii		(m	mandermanue	Strawood .	M3[1]	7	а.	0.11 dBn
10 dBm				_	mati	1	5	7856492 GH
						A	1	
20 dBm —		M1				明月		
						X		
30 dBm 	Une might	North March March				Server and	Mr. And Mr. And	hullow (Mader and
And Bro	mil 1						. vi (k	www.www.
io abiii								
50 dBm				_				
60 dBm —				-				
70.10								
70 dBm								
80 dBm								
oo abiii								
.90 dBm —								
CF 5.785 GI	Ηz		100)1 pts			Sp	an 50.0 MHz
larker								
Type Ref	Trc	X-value	Y-value		Function		Function Res	ult
M1	1	5.7745106 GH						
D2 M1		20.7293 MH						
M3	1	5.7856492 GH						
M4	1	5.7952399 GH	z -25.92 (18m				

Date: 13.JUN.2019 09:47:31

Plot 12: U-NII-3; highest channel

Specti	rum									
Ref Le	vel 8	.21 dBr	n	RBW	300 kHz					
Att		25 di	B SWT 1 ms	VBW	1 MHz Moo	ie Swei	эр			
SGL Co	unt 2	00/200	TDF							
😑 1Pk Ma	ах									
					M3		M1[1]			-26.62 dBm
0 dBm—				man	and the work of the	-	tom may may may may may may may may may ma	-	5.8	144604 GHz
				1	- I - T		M3[1]	1		1.07 dBm
-10 dBm	- +−						-	1.	5.8	200550 GHz
				1				2		
-20 dBm	+-י		Mj	¢						
20 40			Mummun					Anglow	W the work with	
-30 dBm	appr	white	•0•0•0••••••						Linger proprietability	MADD IN I
-40 dBm	, L									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-40 0011	'									
-50 dBm										
-60 dBm	1									
-70 dBm	ו									
-80 dBm	–									
CF 5.82	25 GH	z			1001	ots			Spar	1 50.0 MHz
Marker										
Type	Ref	Trc	X-value	. 1	Y-value	1 Eu	nction	Eu	nction Resul	+ 1
M1		1	5.81446		-26.62 dBn		nocioni	14		·
D2	M1	1	20.779		0.78 df					
M3		1	5.8200		1.07 dBn					
M4		1	5.83523	99 GHz	-25.84 dBn	1				
		1)	Boadu		4.369	13.06.2019
									age of the second se	

Date: 13.JUN.2019 09:53:25



Plots: n HT40 - mode

Plot 1: U-NII-1; lowest channel

Spectrum						
Ref Level -0.76 dBm	RBW	/ 500 kHz				
Att 15 dB	SWT 1 ms 👄 VBW	/ 3 MHz Mode	e Sweep			
SGL Count 200/200	TDF					
∋1Pk Max						
	mano	191 Marshan Mary Mary	montheliter		-	30.59 dBm
-10 dBm		V V		Ϊ 🔪 👘	5.16	90209 GHz
			M3[1]	1		-3.50 dBn
-20 dBm				<u>ь</u>	5.18	79020 GHz
	M1			12		
-30 dBm	1 Annaly			Andrea 1		
10 10 min marshall hundren	Magar And the			"" " " " " " " " " " " " " " " " " " "	manthend	
-30 dBm					an withing	and all the working the
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
-80 aBm						
-90 dBm						
CF 5.19 GHz		1001 pt:			Snan 1	.00.0 MHz
Marker		1001 pt.			opanii	00.0 0112
Type Ref Trc	X-value	Y-value	Function	Eup	ction Result	
M1 1	5.1690209 GHz	-30,59 dBm	ranction	run	ction Result	
D2 M1 1	41.6584 MHz	1.00 dB				
M3 1	5.187902 GHz	-3.50 dBm				
M4 1	5.2106793 GHz	-29.59 dBm				
			Ready		100	2.06.2019

Date: 12.JUN.2019 20:55:22

Plot 2: U-NII-1; highest channel

Ref Level Att SGL Count 9 1Pk Max -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	15	dB SWT 1 m	ns e VBI		ode Sweep				-31.99 dBm
SGL Count 1Pk Max -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	200/20								-31 99 dBm
1Pk Max -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm			June	montable	manutud	111			-31 00 dBm
-10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm		M	Jum	montable	manut	111			-31 00 dBm
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm		M	mon	www.hallow	mound	HIL.			-31 00 dBm
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm			1		· · · · · ·				01.99 UDII
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm		M	1				٦)	5.	2091208 GH
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm		м	11		M	3[1]	1		-3.78 dBn
-40 dBm Դեսչեն հերություն -50 dBm -60 dBm		м	ľ				- <u>\</u>	5.	2226074 GHz
-40 dBm Դեսչեն հերություն -50 dBm -60 dBm			ł				4		
-50 dBm			7				×	_	
-50 dBm		1 when owned the					W Wy My Law	marine an	
-50 dBm	140 alter of	NC NC TO T							monunder
-60 dBm									
70.10									
-70 ubiii									
-80 dBm									
oo abiii									
-90 dBm									
CF 5.23 GH	Hz			1001	pts			Spa	n 100.0 MHz
Marker									
Type Ret	f Trc	X-valu	e	Y-value	Func	tion	Fi	inction Res	ult
M1	1	5.20912		-31.99 dBr					
D2 M	11 1		87 MHz	0.82 d					
M3	1	5.22260		-3.78 dBr					
M4	1	5.25057	95 GHz	-31.17 dBr	n				

Date: 12.JUN.2019 21:00:37



Plot 3: U-NII-2A; lowest channel

Spect										
	vel -	1.17 dB			V 500 kHz					
Att		15 d	- 0111 2111	s 👄 VBN	NY 3 MHz MI	ode Swe	ер			
		00/200	TDF							
1Pk M	ЭX									
				more	mouran	mondo	Ma[1]			-31.96 dBn
-10 dBm				1				~\	5.2	2493204 GH
				1			M3[1]	4		-4.52 dBn
-20 dBrr)— -			1			· .	١.	5.2	2766935 GH
			Ma					44		
-30 dBrr								X		
10 10		1 JA	man and the second second					Marchar	10	
40 aBr	N. William	Car Markey							COLUMN THE STREET	have when a
50 dBr										an work
SU UBII										
-60 dBm										
00 000	·									
70 dBm										
80 dBrr										
-90 dBrr	-+									
CF 5.2	7 GHz			1	1001	pts	1		Spar	100.0 MHz
1arker										
Type	Ref	Trc	X-value	.	Y-value	Fu	nction	F	unction Resu	ılt
M1		1	5.24932	04 GHz	-31.96 dB	m				
D2	M1	1		59 MHz	0.37 c					
MЗ		1	5.27669		-4.52 dB					
M4		1	5.29057	95 GHz	-31.59 dB	m				

Date: 12.JUN.2019 21:07:13

Plot 4: U-NII-2A; highest channel

Spectrum						
Ref Level -	2.37 dBm	n 🖷 RE	3W 500 kHz			· · · · · · · · · · · · · · · · · · ·
Att	15 dE		3W 3 MHz Mo	le Sweep		
SGL Count 2	200/200	TDF				
●1Pk Max						
-10 dBm		Jan X	allow many a	M1[1]	wy	-33.06 dBn 5.2892206 GH
-20 dBm				M3[1]		-5.73 dBm 5.2951148 GH
-30 dBm		M				
-40 dBm	Willower tothe	on Marshart				manuhauthand
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
-90 dBm						
-100 dBm			1001 p	1 -		Span 100.0 MHz
	-		1001 þ			əpan 100.0 MHZ
Marker	1 1		1	Function		ction Result
Type Ref M1	Trc 1	X-value 5.2892206 GHz	-33.06 dBm	Function	Fun	ction Result
D2 M1	1	41.5585 MHz	-33.06 UBM -1.36 dB			
M3	1	5.2951148 GHz	-5.73 dBm			
M4	1	5.3307791 GHz	-34.42 dBm			
][Ready		12.06.2019

Date: 12.JUN.2019 21:12:32



Plot 5: U-NII-2C; lowest channel

Spectru Ref Leve			-	RBW 500	LU3					[₩
Att		15 dB	SWT 1 ms 🖷 '			de Sweep				
SGL Cour			TDF	, D W 2		ue sweep				
1Pk Max	1 2007	200	101							
						м	1[1]			-34.41 dBm
-10 dBm—	-				an an an Tan Ang Agia	in a marked with	1[1] marine	λ		395206 GHz
			/		4	M	3[1]	1		-8.14 dBm
-20 dBm—								1	5.50	078021 GH
-30 dBm—			pa.					1		
-30 ubm			1 🗍					14 1		
40 dBm—			1					4		
mound	an marine	الإسراالودروقع	Julius and and					Mon Bullet	an war war war	Montemaperates
50 dBm—	-									
-60 dBm—										
oo abiii										
-70 dBm—										
80 dBm—										
90 dBm—										
90 ubm										
100 dBm-	_									
CF 5.51 C	Hz				1001 p	ots			Span	100.0 MHz
larker										
Type R	ef Tr	c	X-value	Y-	-value	Func	tion	Fur	ction Resul	t
M1		1	5.4895206 GH	z -	-34.41 dBm					
	M1	1	41.1587 MH		-1.71 dB					
M3 M4		1	5.5078021 GH 5.5306793 GH		-8.14 dBm 36.12 dBm					

Date: 12.JUN.2019 21:19:13

Plot 6: U-NII-2C; middle channel

Spectrum								
Ref Level - Att _SGL Count 2	15 d		RBW 500 kHz /BW 3 MHz N	lode :	Sweep			
●1Pk Max								
-10 dBm			dame Turper and and a second		M1[1]	γ		-36.92 dBm 691208 GH:
-20 dBm					M3[1]		5.5	-7.77 dBn 788114 GH:
-30 dBm		- M				- 1 2		
-40 dBm		a a han a thomas				here a :		
-40 dBm -50 dBm	hyphiered-alientered	ACMUMIKANY .				o abolt wh	water and the second	annon annound
-60 dBm								
-70 dBm								
-80 dBm								
-90 dBm								
-100 dBm								
CF 5.59 GHz	z		100:	l pts	I	I	Span	100.0 MHz
Marker								
Type Ref	Trc	X-value	Y-value	1	Function	Fu	nction Resul	t
M1	1	5.5691208 GH	z -36.92 dł	3m				
D2 M1	. 1	41.3588 MH						
M3	1	5.5788114 GH						
M4	1	5.6104796 GH	z – 34.56 de	3m				
][]				Ready		1,120	12.06.2019

Date: 12.JUN.2019 21:24:24



Plot 7: U-NII-2C; highest channel

Ref Leve	al -2	2.87 dB	m	RB1	₩ 500 kHz						(
Att		15 0				ode Sw	een				
SGL Cou	nt 20		TDF			oue on	oop				
1Pk Max											
-					V 110		Millin				-33.69 dBn
-10 dBm-			_	portine	montabler	mann	- and the	~		5.64	193204 GH
				17			M3[1]	1			-6.67 dBm
-20 dBm-			-				-	- N		5.66	525075 GH
-30 dBm-			м					04			
-30 ubiii-				7				X			
-40 dBm-			- inter					1			
upport	Hun	hadasha	manutuhette						oorna calibita	www.www.	Mundaman
50 dBm-	-										
-60 dBm-	+		_				_				
-70 dBm-											
-70 aBm-											
-80 dBm-											
-90 dBm-	_										
-100 dBm										_	1
CF 5.67	GHz				1001	pts				Span	100.0 MHz
1arker											
	tef	Trc	X-valu		Y-value		unction		Fund	tion Result	t
M1 D2	M1	1	5.64932	04 GHZ 88 MHZ	-33.69 dB 0.87 c						
M3	TIME	1	41.35 5.66250		-6.67 dB						
M4		1	5.69067		-32.82 dB						

Date: 12.JUN.2019 21:29:31

Plot 8: U-NII-3; lowest channel

Spectrum					
Ref Level -0.45 di Att 15		WI 500 kHz WI 3 MHz Miodol	e Sweep		(
SGL Count 200/200	on and		a 20066h		
1Pk Max					
		when pour and a second	MM11		-30.25 dBn
-10 dBm	pursue			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5.7344205 GH
-10 000	1 17		M3[1]	1	-3.64 dBr
-20 dBm				- X	5.7474074 GH
	M			4	
-30 dBm				- 1 1	
	and american and			Upperson	ALC: ALC: A
-40 dBm	ppen al const				www.welnewellowayan
-50 dBm					
-30 0611					
-60 dBm					
-70 dBm					
-80 dBm					
-90 dBm					
-90 UBIII					
CF 5.755 GHz		1001 pt	5		Span 100.0 MHz
Marker					
Type Ref Trc	X-value	Y-value	Function	Func	tion Result
M1 1	5.7344205 GHz	-30.25 dBm			
D2 M1 1 M3 1	41.3588 MHz 5.7474074 GHz	-0.86 dB -3.64 dBm			
M3 1 M4 1	5.7757793 GHz	-31.11 dBm			
	5.1137793 GHz	ST.II UDIII	<u> </u>		40.05.0040
Л			Ready		12:06:2019

Date: 12.JUN.2019 21:34:40



Plot 9: U-NII-3; highest channel

Spectr											₹
	el O	.79 dBm			' 500 kHz						
Att		20 dB	0111 21110	VBW	/ 3 MHz N	lode 9	Sweep				
SGL Cou		00/200	TDF								
1Pk Ma	×										
				nor dry	mandermark	mon	work	Monne			-28.89 dBn
10 dBm·						Ch.			\	5.7	740211 GH
to abiii				1			M	3[1]	1		-2.25 dBn
20 dBm-				<u> </u>					և	5.8	053898 GH:
			MI						<u>114</u>		
30 dBm·			7			-			- X		
		month	www.www.www						houldrybe	Annannaknehain	
ዿ ፝፝ቚ፼ኯኯ	share-										Cherry spin for the star
50 dBm·											
60 dBm·											
oo abiii											
70 dBm											
80 dBm·	_					-					
90 dBm						-					
CF 5.79	5 GH	z			100	1 pts				Span	100.0 MHz
larker											
Type	Ref	Trc	X-value		Y-value		Func	tion	F	unction Resul	t
M1		1	5.774021		-28.89 c						
D2	M1	1	41.558		0.62						
MЗ		1	5.805389		-2.25 c						
M4		1	5.815579	6 GHz	-28.26 c	Bm					

Date: 27.JUN.2019 16:19:58



11.8 Occupied bandwidth / 99% emission bandwidth

Description:

Measurement of the 99% bandwidth of the modulated signal acc. RSS-GEN.

Measurement:

Measureme	nt parameter
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	300 kHz / 500 kHz
Video bandwidth:	1 MHz / 3 MHz
Span:	50 MHz / 100 MHz
Measurement procedure:	Measurement of the 99% bandwidth using the integration function of the analyzer
Trace mode:	Max hold (allow trace to stabilize)
Test setup:	See chapter 6.4 – A
Measurement uncertainty:	See sub clause 8

<u>Usage:</u>

-/-	IC
OBW is necessary fo	r Emission Designator

Test report no.: 1-8662/19-02-03-A



Results:

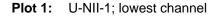
		99% bandwidth (kHz)							
	U-NII-1 (5150 MHz to 5250 MHz)								
	Lowest channel	Middle channel	Highest channel						
	16933	16833	16883						
	U-NII-2A (5250 MHz to 5350 MHz)								
	Lowest channel	Middle channel	Highest channel						
а	16783	16783	16833						
	U-NII-2C (5470 MHz to 5725 MHz)								
	Lowest channel	Middle channel	Highest channel						
	16783	16783	16783						
		J-NII-3 (5725 MHz to 5850 MHz)						
	Lowest channel	Middle channel	Highest channel						
	16783	16833	16983						

	99% bandwidth (kHz)								
	U-NII-1 (5150 MHz to 5250 MHz)								
	Lowest channel	Middle channel	Highest channel						
	17982	17932	17932						
	U-NII-2A (5250 MHz to 5350 MHz)								
	Lowest channel	Middle channel	Highest channel						
n HT20	17932	17882	17882						
	U-NII-2C (5470 MHz to 5725 MHz)								
	Lowest channel	Middle channel	Highest channel						
	17882 17882		17932						
	U-NII-3 (5725 MHz to 5850 MHz)								
	Lowest channel	Middle channel	Highest channel						
	17932	17982	17982						



	99% bandwidth (kHz)							
	U-NII-1 (5150 MHz to 5250 MHz)							
	Lowest channel		Highest channel					
	36563		36663					
	U-NII-2A (5250 MHz to 5350 MHz)							
	Lowest channel		Highest channel					
n HT40	36563		36464					
	U-NII-2C (5470 MHz to 5725 MHz)							
	Lowest channel	Middle channel		Highest channel				
	36563	36563		36663				
	U-NII-3 (5725 MHz to 5850 MHz)							
	Lowest channel		Highest channel					
	36563		36663					

Plots: a - mode



Spectrum ● RBW 300 kHz
SWT 1 ms ● VBW 1 MHz
TDF RefLevel 6.97 dBm Att 25 dB Att 25 dB SGL Count 200/200 Mode Sweep ⊖1Pk Max 0.79 dBm 5.1840960 GH 16.933066933 MH 0 dBm· T) -10 dBm--20 dBm-400 dBm Munhhum when have been -30 dBmmanguller -50 dBm -60 dBm--70 dBm--80 dBm--90 dBm-Span 50.0 MHz CF 5.18 GHz 1001 pts Marker
 Type
 Ref
 Trc

 M1
 1

 T1
 1

 T2
 1
 X-value 5.184096 GHz 5.1714585 GHz 5.1883916 GHz Y-value 0.79 dBm -7.82 dBm -7.73 dBm Function Result Function Т Occ Bw 16.933066933 MHz LXI

Date: 12.JUN.2019 19:36:37

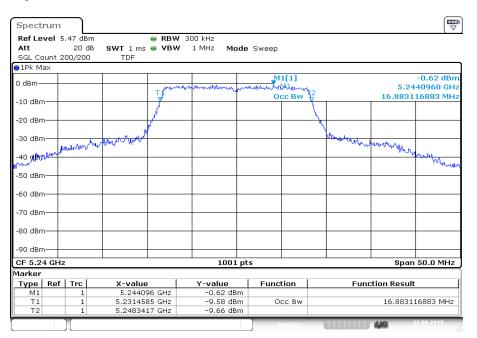
Plot 2: U-NII-1; middle channel

Spect	rum											
Att		.17 dBm 25 dB 00/200		■ RBW ■ VBW		de	Sweep					, , , , , , , , , , , , , , , , , , ,
😑 1Pk M	ах											
0 dBm—				TIM	workworker	moto	mund	1[1] Mymr	2			0.25 dBm 240960 GHz
-10 dBm				7			00	c Bw			16.833	166833 MHz
-20 dBm			+ +	٦								
-30 dBm	י - ר	without	War war all all all and and						<u></u>	Un and the	Mr. Mudder .	Wardhaman
LARONABA	MM	40 -	a short at sold take on the								1 10044	When the way
-50 dBm												
-60 dBm	- ب											
-70 dBm	- ب											
-80 dBm	י ן -ר											
-90 dBm	<u>ا</u> ر											
CF 5.2	2 GHz				1001	pts					Spa	n 50.0 MHz
Marker	_											
Type M1	Ref	Trc 1	X-value 5.224096	5 CH2	<u>Y-value</u> 0.25 dB		Funct	ion		Fur	iction Resu	lt
T1		1	5.211508		-8.79 dB		Oc	C BW			16.833	166833 MHz
T2		1	5.228341		-8.19 dB	m						
)[R	e a d y			1,00	12.06.2019

Date: 12.JUN.2019 19:42:02



Plot 3: U-NII-1; highest channel



Date: 12.JUN.2019 19:47:31

Plot 4: U-NII-2A; lowest channel

Spectrum									
Ref Level 5 Att SGL Count 2	20 d	B SWT 1 ms 🖷 V	BW 300 kHz BW 1 MHz M	ode	Sweep				
●1Pk Max									
0 dBm		Тұ	M1[1]				-1.12 dBm 5.2664440 GHa		
-10 dBm		¥			00	cc Bw	Ϋ́	16.7832	16783 MHz
-20 dBm							N.		
-30 dBm		M. Margaretura					- Warphollum	Mahana	
-40 dBps	Wythe Grand	mananahana						of the stand when the stand of	worth
-50 dBm									
-60 dBm									
-70 dBm									
-80 dBm				-					
-90 dBm									
CF 5.26 GHz	2	II	100	1 pts				Span	50.0 MHz
Marker									
Type Ref	Trc	X-value	Y-value		Funct	tion	Fun	ction Result	
M1	1	5.266444 GH							
T1 T2	1	5.2515584 GH 5.2683417 GH			0	cc Bw		16.7832	16783 MHz
][R	eady		4,44	12.06.2019

Date: 12.JUN.2019 19:54:14



Plot 5: U-NII-2A; middle channel

Spectrum							
Ref Level	4.31 dBn	n 🖷 RB	W 300 kHz				
Att	20 di	8 SWT 1 ms 👄 VB	W 1 MHz Mode	Sweep			
SGL Count 2	200/200	TDF					
1Pk Max							
0 dBm				M1[1]			-1.50 dBm
		T 1/1	monundationer	mar have been when	52	5.29	77020 GHz
-10 dBm				Occ Bw	¥	16.7832	16783 MHz
-20 dBm—					\mathbf{X}		
					1		
-30 dBm		A				his well and the second of the	
		whenter			Withurson	Yes handledone	
-40 dBm	Sm Marken	***				and a manyard	Mard
MAN WWW							"" WWW WWW
-50 dBm —							
-60 dBm —							
-70 dBm							
-80 dBm							
-90 dBm							
CF 5.3 GHz		I	1001 pt	s		Span	50.0 MHz
/larker						•	
Type Ref	Trc	X-value	Y-value	Function	Fi	unction Result	
M1	1	5.297702 GHz					
Τ1	1	5.2915085 GHz	-9.36 dBm	Occ Bw		16.7832	16783 MHz
T2	1	5.3082917 GHz	-10.00 dBm				
	1)		00	12.05.2010

Date: 12.JUN.2019 20:00:46

Plot 6: U-NII-2A; highest channel

Spect	rum									
Ref Le Att SGL Co	ount 2	20 0	dB SWT 1 ms	● RBW ● VBW		e Sweep				
⊖1Pk M	ах									
0 dBm–					anna maria	M:	1[1] M1		E 0/	-1.88 dBm 240960 GHz
-10 dBn	- ب			June	and an entrance	- 40 - 10 - 0	C BW	2 7 1		.66833 MHz
-20 dBn	ب لر			d la				<u>\</u>		
-30 dBn	-		And the second	r						
-40 dBn	Johnson	april	new William Manual					www.ru	Mar Marcia	workledge and
-50 dBn										
-60 dBn	+-י									
-70 dBn										
-80 dBn	י									
-90 dBn	י ן -ר									
CF 5.3	2 GHz	:			1001 pt	s			Spar	50.0 MHz
Marker										
Туре	Ref	Trc	X-value		Y-value	Funct	tion	Fu	nction Result	t
M1 T1		1	5.32409 5.311508	35 GHz	-1.88 dBm -9.98 dBm	00	cc Bw		16.8331	66833 MHz
T2		1	5.32834	17 GHz	-10.26 dBm					
)[R	eady		14	12.06.2019

Date: 12.JUN.2019 20:06:17



Plot 7: U-NII-2C; lowest channel

Spectrum											
Ref Level 2	2.93 dBm		👄 RBW	' 300 kHz							``````````````````````````````````````
Att	20 dB	SWT 1 ms	VBW	1 MHz N	lode	Sweep					
SGL Count 2	200/200	TDF									
∎1Pk Max											
0 dBm						M1	l[1]				-3.46 dBm
			+ maria	monon July	tura	mound	many	- 0		5.4	978020 GHz
-10 dBm			Ť			₩1000	c Bw 🤇	v 1		16.783	216783 MHz
			1								
-20 dBm —								\rightarrow			
			1					- Y			
-30 dBm —		1	r								
		participation							L	1	the with with my p
-40 dBm	www.pdogladyhe	harmon browner.			-				- Hryanstein	White a	de a con con a
Man marine										Acto.	an manufather
-50 dBm					+						
-60 dBm											
-70 dBm											
-/0 ubiii											
-80 dBm											
-90 dBm											
JO UDIN											
CF 5.5 GHz				100	1 pt	5				Spa	n 50.0 MHz
/larker											
Type Ref	Trc	X-value	1	Y-value	1	Funct	ion		Fun	ction Resu	lt
M1	1	5.49780	02 GHz	-3.46 c	IBm						
Τ1	1	5.491558	84 GHz	-11.71 c	Bm	Oc	c Bw			16.783	216783 MHz
T2	1	5.508341	7 GHz	-11.02 c	IBm						
	20				_	-	_				10.05.0010

Date: 12.JUN.2019 20:17:43

Plot 8: U-NII-2C; middle channel

Spect	rum											
Ref Le Att SGL Co		20 d			300 kHz 1 MHz Mo	ode	Sweep					
⊖1Pk M	ах											
0 dBm-	\			Ţ	moundar	m	monto	1[1] Mhung cc Bw 🔻	2			-3.29 dBm 40960 GH 16783 MH
-20 dBn	۱			- An					4			
-30 dBn			and a conserver	(4	\		
-40 dBn ///// -50 dBn	wordsam	J. Marana	Northern provident							- Willing Harring	woolly and would	muhuhu
-60 dBn												
-70 dBn	י ן -ר											
-80 dBn	י <u>+</u> ו											
-90 dBn												
CF 5.6	GHz				1001	. pts					Span	50.0 MHz
Marker												
Type M1	Ref	Trc 1	X-value 5,6040		<u>Y-value</u> -3.29 dB		Func	tion		Func	tion Result	
T1 T2		1 1 1	5.59150 5.60829	85 GHz	-3.29 dB -11.46 dB -11.04 dB	m	0	cc Bw			16.7832:	16783 MHz
)[) 6	te a d y	1		1,70	12.06.2019

Date: 12.JUN.2019 20:24:15



Plot 9: U-NII-2C; highest channel

Spectrum							
Ref Level 3	5.50 dBr	n 🖷 R	BW 300 kHz				
Att	20 d	B SWT 1 ms 👄 V	BW 1 MHz Mod	e Sweep			
SGL Count 2	200/200	TDF					
1Pk Max							
0 dBm				M1[1]			-0.58 dBm
J UBIII		τ 1	an hilly marshall all and for	Why we hallow we	12	5.70	040460 GHz
-10 dBm				Occ Bw	₹	16.7832	16783 MHz
TO UDIN							
-20 dBm					<u>\</u>		
					N		
-30 dBm		- 			- Althe A		
	Antol	wanter			warmen	within mary	
-40 dBm	May 1000 C					- Contraction	Million La
							- Montrall
-50 dBm 🕂							
-60 dBm							
-70 dBm							
-70 asm							
-80 dBm							
-90 dBm							
CF 5.7 GHz			1001 p	its		Span	50.0 MHz
1arker	1 - 1		1	1	-		
Type Ref M1		X-value 5.704046 GH	Y-value 12 -0.58 dBm	Function	F	unction Result	t
T1	1	5.6915584 GH				16 7999	16783 MHz
T2	1	5.7083417 GH				10.7032	10703 10112
16	1 4	5,1005,117 GH			1		

Date: 12.JUN.2019 20:29:38

Plot 10: U-NII-3; lowest channel

Specti	rum								
Ref Le ^r Att SGL Co	unt 2	25 c	B SWT 1 ms 👄 🕯	RBW 300 kHz VBW 1 MHz Mo	ode Swee	p			
⊖1Pk Ma	эх								
0 dBm—				and the second	سرب للعربه معند	M1[1]		5.74	1.03 dBm 190960 GHz
40.10			7	f i '	ĺ	Occ Bw	¥ .	16.7832	16783 MHz
-10 dBm)								
-20 dBm			/						
20. d0.es			Noth a walk				W. M.	mandallan wada	
-30 UBI	. do	hallen	Any proved co. a.a.				- Marine Barrier	www.ollowerdury.du	
"≃≄ď\ď₿'n		•	water and attraction						monaturally
-50 dBm									
-60 dBm	<u>۱</u>								
-70 dBm									
-80 dBm	<u>ا</u>								
-90 dBm									
CF 5.74	15 GH	łz		1001	pts			Spar	50.0 MHz
Marker									
Type M1	Ref	Trc 1	X-value 5.749096 G	Y-value Hz 1.03 dB		nction	F	unction Result	t
T1		1	5.749098 G			Occ Bw		16.7832	16783 MHz
T2		1	5.7533417 G	Hz -7.12 de	Sm				
						Ready		1,20	12.06.2019

Date: 12.JUN.2019 20:35:36



Plot 11: U-NII-3; middle channel

Spectrum							
Ref Level	7.44 dBm	n 🖷 RB'	W 300 kHz				(-
Att	25 dE	SWT 1 ms - VB	W 1 MHz Mode	Sweep			
SGL Count 2	200/200	TDF					
∋1Pk Max							
				M1[1]			1.44 dBm
0 dBm		Trh	and the second of the second o	manyabiliting	F2	5.78	390460 GHz
				Occ Bw	₹	16.8331	.66833 MHz
-10 dBm					1		
		J.			3		
-20 dBm					An a		
20 40		un han han han han han han han han han ha			www.	mallhallowh	
-30 uBm	Harran					Mary Marsh	a
MAN THE							www.uputine
-40 08111							
-50 dBm							
oo abiii							
-60 dBm							
-70 dBm						_	
-80 dBm							
-90 dBm							
CF 5.785 GI	lz		1001 pt	5		Spar	1 50.0 MHz
Marker							
Type Ref		X-value	Y-value	Function	Fu	nction Result	t
M1	1	5.789046 GHz	1.44 dBm				
T1	1	5.7765584 GHz	-6.03 dBm	Occ Bw		16.8331	66833 MHz
T2	1	5.7933916 GHz	-6.91 dBm				
				Ready		120	12.06.2019

Date: 12.JUN.2019 20:41:35

Plot 12: U-NII-3; highest channel

Spect	rum									
Ref Le	vel 8	.46 dB	m	RBW	300 kHz					
Att		25 c	B SWT 1 ms	👄 VBW	1 MHz Mo	de Sweep				
SGL Co	ount 2	00/200) TDF							
😑 1Pk M	ах									
0 dBm-				1-400	numer hard	N Aunter March	11[1] *~*~~~~		5.82	2.96 dBm 27020 GHz
0 0.0				13		. c)cc Bw 【	2	16.9830	16983 MHz
-10 dBn				1			+	<u>L</u>		
-20 dBn	n		www.www.white	<u>}</u>						
-30 dBn	nAr		47N North Mar						nuluturouthand	h
-40 dBr										White have
-50 dBr										
-30 001										
-60 dBn	n									
-70 dBn	n								_	
-80 dBn	n									
CF 5.8	25 GH	łz			1001	pts			Spar	50.0 MHz
Marker										
Туре	Ref	Trc	X-value	e	Y-value	Fun	ction	Fu	unction Result	t
M1		1	5.8227		2.96 dB					
T1		1	5.81645		-6.90 dB		Dec Bw		16.9830	16983 MHz
T2		1	5.83344	16 GHz	-6.76 dBi	m				
		J					Ready		1,00	12.06.2019

Date: 12.JUN.2019 20:47:24



Plots: n HT20 - mode

Plot 1: U-NII-1; lowest channel

Spectrun	n										
Ref Level	7.27 de	3m	👄 RBW	' 300 kHz							
Att	25	dB SWT 1 ms	. 🕳 VBW	1 MHz Mo	de 🤅	Sweep					
SGL Count	200/20	0 TDF									
●1Pk Max											
						M:	1[1]				1.13 dBm
0 dBm			TION	mentomon	d'Ultra		wheel hand			5.17	51050 GHz
			d The	10-1 0-1 0-1 0-1	,	00	c Bw	£.		17.9820	17982 MHz
-10 dBm								+			
			1					N			
-20 dBm			Y					-			
			M						\		
-30 dBm		In and monthe work							2, Marcheter Style	tool to at	
Mile Nue	provent	nerd the made with								an sen have been	Holmennen
40 dBm-										· ·	1 Which you a
-50 dBm											
-60 dBm											
-70 dBm											
-80 dBm											
-90 dBm											
CF 5.18 G	Hz			1001	pts					Span	50.0 MHz
Marker					-			_			
Type Re	f Trc	X-valu	• 1	Y-value	1	Funct	ion		Euno	tion Result	· 1
M1	1		.05 GHz	1.13 dBr	<u>_</u>						·
T1	1		59 GHz	-6.84 dBr		O	C BW			17.9820	17982 MHz
T2	1	5.18894		-6.36 dBr							
	20				<u> </u>			- 2		-1.572	13 05 2010
										170	

Date: 13.JUN.2019 08:47:41

Plot 2: U-NII-1; middle channel

Specti	rum											
Ref Le [.] Att SGL Co		25 (dB SWT 1 ms		300 kHz 1 MHz M0	ode	Sweep					C ·
⊖1Pk Ma	эх											
0 dBm—	_			Tjernah	mmmm	e huy	M1 M	1[1] ,	T 2			-0.56 dBm 232970 GHz 067932 MHz
-10 dBm				¥			- 0		<u> </u>		17.932	
-20 dBm				¢								
-30 dBm			J. marger M. M. March		_					4 Junior	Bucharan	Mydry market
¦≄o∕aB n	withur	NUMAN'S	draw and the second								an allow without	Mydry marke
-50 dBm	•——											
-60 dBm												
-70 dBm	1											
-80 dBm						<u> </u>						
-90 dBm												
CF 5.22	2 GHz				1001	t pts	5				Spa	n 50.0 MHz
Marker	D-f	T ua	×		¥		E	I		F	ation Door	IA 1
Type M1	Ref	1rc 1	X-value 5.22329		<u>Y-value</u> -0.56 dB	m	Func	uon		Fur	iction Resu	n
T1		1	5.21100	09 GHz	-7.56 dB	3m	0	cc Bw			17.932	067932 MHz
T2		1	5.22894	11 GHz	-8.08 dB	/m						
][R	e a d y	1		4,70	13.06.2019

Date: 13.JUN.2019 08:53:22



Plot 3: U-NII-1; highest channel

Spect	rum											
Ref Le [.] Att	vel 5	.34 dB		RBW			_					
SGL Co	unt 2		- O III 2 1115	• vew	1 MHz Mo	ae	Sweep					
IPk Ma		00/20										
							M1 M	1[1]				-1.44 dBm
0 dBm—				Termon	monnen	Jan Mark	entern	when	A 72			32470 GHz
-10 dBm				7		-	00	cc Bw	T	,	17.9320	67932 MHz
10 000	.			1					1			
-20 dBm	∩			/					_{			
			لم ا									
-30 dBm	<u>ו</u> רי									marchen		
40.40	In Ast	meters	anna ann an Ann							Honorbanashirin	- Muhaluna	diam'r
ut AlmBru	1 * * † *											man and marked
-50 dBm												
-60 dBm	n—											
-70 dBm												
-80 dBm												
-00 060	'											
-90 dBm												
CF 5.24	4 GHz	,			1001	nts					Snan	50.0 MHz
Marker					1301						Span	2010 1112
Type	Ref	Trc	X-value	. 1	Y-value		Func	tion		Func	tion Result	. 1
M1		1	5.2432		-1.44 dB	m						
Τ1		1	5.2310		-8.15 dB		0	cc Bw			17.9320	57932 MHz
T2		1	5.24894	11 GHz	-8.77 dB	m						
		Τ					R	e a d y	1		4,761	13.06.2019

Date: 13.JUN.2019 08:58:57

Plot 4: U-NII-2A; lowest channel

Spectrur	n									
Ref Level Att SGL Count	25 d	B SWT 1 ms 👄	RBW 300 kHz VBW 1 MHz r	Mode	Sweep					
⊖1Pk Max										
0 dBm		Tž	manna	N	M1 M1	Ann due	T 2			-0.73 dBm 33470 GHz
-10 dBm—		₹		_	00	c Bw	¥.		17.9320	67932 MHz
-20 dBm—				_			-\			
-30 dBm		the second					- No.H			
water abit	, where provide the	while where when					Surger	and Mart	mundhing	Muhampaha
-50 dBm—										
-60 dBm—										
-70 dBm—				_						
-80 dBm—				_						
-90 dBm—				_						
CF 5.26 G	Hz		10	01 pts					Span	50.0 MHz
Marker	- 1 - 1		1							
Type Re M1		X-value 5.263347 (GHz -0.73		Funct	ion		Functio	n Result	
T1	1	5.263347 (Or	C BW			17.9320f	57932 MHz
T2	1	5.2689411 (
					R	eady			6	3.06.2019

Date: 13.JUN.2019 09:04:29



Plot 5: U-NII-2A; middle channel

Spectrum						
Ref Level 4.98 dBi	m 🖷 RBV	V 300 kHz				
Att 20 d	B SWT 1 ms 👄 VBV	V 1 MHz Mode	Sweep			
SGL Count 200/200	TDF		•			
●1Pk Max						
0 dBm			M1 M1[1]			-2.04 dBm
	TINMA	mark more way when	Lundhammen	m.o.	5.30	32970 GHz
-10 dBm		···· • • • • • • • • • • • • • • • • •	Occ Bw	2 V	17.8821	17882 MHz
-10 060				11		
-20 dBm	/			1		
20 0011	f			N N		
-30 dBm	^					
	1. 10 Material			Men was		
-40 dBpbby the the shall be	Value of the production of the second			- A. and Adad	2 Monoral Margarette	
What all for an					and the second state of th	- Andrew
-50 dBm						
-60 dBm						
-70 dBm					_	
-80 dBm						
-90 dBm						
CF 5.3 GHz		1001 pt	s	I	Spar	50.0 MHz
/larker						
Type Ref Trc	X-value	Y-value	Function	Eu	nction Result	t I
M1 1	5.303297 GHz	-2.04 dBm				-
T1 1	5.291009 GHz	-9.60 dBm	Occ Bw		17.8821	17882 MHz
T2 1	5.3088911 GHz	-9.95 dBm				
)		120	10.05.0010

Date: 13.JUN.2019 09:14:04

Plot 6: U-NII-2A; highest channel

Spect	rum											
Ref Le Att SGL Co		20 (dB SWT 1 ms		300 kHz 1 MHz Mc	de	Sweep					
		00/20	J IDP									
0 dBm-				TANKIN	mumum	An	M1 M					-2.57 dBm 232970 GHz
-10 dBm	η			1				cc Bw	12		17.8821	17882 MHz
-20 dBm				/					\rightarrow			
-30 dBm	η								-	h.		
-40 dBm	All walk	_{len} ntur Al	nonumun							Mutubridge	Malan	mon when you
-50 dBm												· P
-60 dBm	<u>ا</u> -۲											
-70 dBm	<u>ا</u>											
-80 dBr	۱											
-90 dBr												
CF 5.3	2 GHz				1001	pts	:				Span	50.0 MHz
Marker												
Type M1	Ret	Trc 1	X-value 5.3232		<u>Y-value</u> -2,57 dB	m	Func	tion		Fund	tion Result	<u> </u>
T1 T2		1 1	5.3110	09 GHz	-10.02 dB -10.41 dB	m	0	cc Bw			17.8821	17882 MHz
							R	eady			4/0	13.06.2019

Date: 13.JUN.2019 09:19:25



Plot 7: U-NII-2C; lowest channel

Spectrum											
Ref Level Att SGL Count	20	dB SWT 1 ms		300 kHz 1 MHz M0	ode	Sweep					
●1Pk Max											
0 dBm						M1_M1	1[1]				-3.67 dBm
-10 dBm			Terror	mahannaan	m		rhautuu CC BW	₹2 			032970 GHz 117882 MHz
-20 dBm—			/					-			
-30 dBm		7						1			
-40 dBm ա	Number	way a way of the design of the second							Milliphone and	howman	-low later provide
-50 dBm											
-60 dBm											
-70 dBm											
-80 dBm											
-90 dBm											
CF 5.5 GHz	2			1001	L pts	5				Spa	n 50.0 MHz
Marker											
Type Re		X-value		Y-value		Funct	tion		Fun	ction Resu	lt
M1 T1 T2	1 1 1		97 GHz 09 GHz 11 GHz	-3.67 dB -11.44 dB -11.33 dB	m	0	c Bw			17.882	117882 MHz
) R	eady	1		170	13.06.2019

Date: 13.JUN.2019 09:25:00

Plot 8: U-NII-2C; middle channel

Spectrum						Ē
Ref Level : Att SGL Count :	20 d	B SWT 1 ms 🖷 VB	W 300 kHz W 1 MHz Mode	Sweep		
●1Pk Max						
0 dBm			M1	M1[1]		-4.90 dBn 5.5950050 GH
-10 dBm		Tzun	man		T2	17.882117882 MH
-20 dBm					+	
-30 dBm					<u> </u>	
-40 dBm	where	topender ber Marger			- Karamarkalahahaha	what we wanted
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
-90 dBm						
CF 5.6 GHz			1001 pt	s		Span 50.0 MHz
Marker						
Type Ref		X-value	Y-value	Function	Fund	ction Result
M1 T1	1	5.595005 GHz 5.591009 GHz	-4.90 dBm -12.00 dBm	Occ Bw		17.882117882 MHz
T2	1	5.6088911 GHz	-12.00 dBm	OCC BW		17.002117002 MHZ
][Ready		13.06.2019

Date: 13.JUN.2019 09:31:23



Plot 9: U-NII-2C; highest channel

Spectrur	n							Ē
Ref Level Att SGL Count	20	dB SWT 1 ms	● RBW ● VBW		sweep			
∋1Pk Max								
0 dBm			Tonton	M1	M1[1] ֏ՠՠֈՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠ	104-	5.69	-1.75 dBm 51050 GHz
-10 dBm—			1		Occ Bw		17.9320	67932 MHz
-20 dBm—			/					
-30 dBm—)						
40 dBriller	بليهاوروس	rangemending				Wallinghed	Windhugen	Mutherry
-50 dBm								
-60 dBm—								
-70 dBm—								
-80 dBm—								
-90 dBm—								
CF 5.7 GH	z	·		1001 p	ts		Span	50.0 MHz
Marker	- 1					1		
Type Re M1	ef Trc	X-value 5.6951		Y-value -1.75 dBm	Function	Fu Fu	inction Result	
T1 T2	1	5.6910	09 GHz	-9.42 dBm -9.37 dBm	Occ Bw		17.9320	67932 MHz
					Ready		100	13.06.2019

Date: 13.JUN.2019 09:36:46

Plot 10: U-NII-3; lowest channel

Spect	um									
Ref Le Att SGL Co		25 c	IB SWT 1 ms		300 kHz 1 MHz Moc	le Sweep				
⊖1Pk M	эх									
0 dBm—				Imm	Monteron	M1 M	11[1] ԽԿպատատ ICC BW	ή2		-0.20 dBm 483470 GHz 067932 MHz
-10 dBm	ı——			7					17.902	507 932 1112
-20 dBm	-			<i> </i>				\downarrow		
-30 dBm	-		- money					Maryn	Nhilmouth the appropriate	
⊾40 dBn	where	መረጉ/መቀሳ	marunalit						. an n. Dulyddy	Metholication
-50 dBm										
-60 dBm	-									
-70 dBm										
-80 dBm										
-90 dBm										1
CF 5.74	15 GH	z			1001	ots			Spa	n 50.0 MHz
Marker Type	Ref	Tre	X-value	. 1	Y-value	Fund	tion		Function Resu	+
M1	Kel	1	5.74834		-0.20 dBr				unction Resu	
T1 T2		1	5.7360(5.75394)		-7.71 dBn -8.02 dBn		CC BW		17.932)67932 MHz
							Ready		4,44	13.06.2019

Date: 13.JUN.2019 09:42:10



Plot 11: U-NII-3; middle channel

Spectrum											ſ⊞
Ref Level 6 Att SGL Count 2	25 d			/ 300 kHz / 1 MHz	Mode	Sweep					
■1Pk Max											
0 dBm			Tintund	M1	~1. ₁ .~1.m	manun	L[1] փոփու cc Bw	T2			0.06 dBm 301050 GHz 117982 MHz
-10 dBm			ΙŽ		_			4	<u> </u>	17.9020	17902 MI12
-20 dBm			-					\rightarrow			
-30 dBm ////////////////////////////////////	nguntun	www.www.							handry	Whomphy	Hunne
-50 dBm											
-60 dBm											
-70 dBm											
-80 dBm											
-90 dBm					_						
CF 5.785 GH	lz			10	001 pt	5				Spar	1 50.0 MHz
larker											
Type Ref	Trc	X-value		Y-value		Funct	ion		Fund	ction Result	t
M1 T1 T2	1 1 1	5.7801 5.7759 5.79394	59 GHz	0.06 -7.07 -7.10	dBm	Oc	c Bw			17.9820	17982 MHz
	ÎT Î					R	eady			420	13.06.2019

Date: 13.JUN.2019 09:48:00

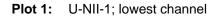
Plot 12: U-NII-3; highest channel

Spect	rum										
Ref Le	vel 8	.21 dBn	1	RBW	300 kHz						
Att		25 dB	SWT 1 ms	vbw	1 MHz Mo	de	Sweep				
SGL Co	ount 2	00/200	TDF				·				
😑 1Pk M	ах										
					M1		M	1[1]			1.25 dBm
0 dBm-	-			Tradental	and the for the for	a norther	~~~~~~ 0	CC BW	2		00050 GHz 17982 MHz
-10 dBn	n			Y				,,			
10 0.01				1					۲I		
-20 dBn	n——		_	(-\		
-30 dBn		1	munder						Monumal	When the	Humphry
1 Antroly	lipphron-m	pul me	n							- wardby	Halpornham .
-40 dBn	n										Courtede
-50 dBn	n										
-60 dBn	n-+-										
-70 dBn	n										
00 40-	_										
-80 dBn											
CF 5.8	25 G⊦	1z			1001	pts				Span	50.0 MHz
Marker											
Туре	Ref	Trc	X-value	. 1	Y-value	1	Func	tion	Fund	tion Result	: 1
M1		1	5.8200		1.25 dB	m					
T1		1	5.8159	59 GHz	-6.91 dB	m	0	cc Bw		17.9820	17982 MHz
T2		1	5.83394	11 GHz	-6.23 dB	m					
		1						eady		430	13.06.2019
(

Date: 13.JUN.2019 09:53:54



Plots: n HT40 - mode



Spectrum											
RefLevel -0	1.76 dBm		🖷 RBW	500 kHz							
Att	15 dB	SWT 1 ms	■ VBW	3 MHz M	ode	Sweep					
SGL Count 20	0/200	TDF									
∋1Pk Max											
		-	and the	Muldummun		M.	the	то			-3.34 dBm
-10 dBm			fourier	maranan	pan	www.www.	Shatester Alt	₩₹		5.1	787100 GHz
-10 UBIII		1)			0	cc Bw	- 1		36.5634	36563 MHz
-20 dBm		/						ોા		1	1
-20 uBill		ſ			(Ч.			
-30 dBm		Í						ų.			
-40 dBm		and the second second						<u> </u>	Maria da C		hamal without
40 dBm	and the series	- and a second second			ĺ			•	wayna	Aldren reption	
polalative guing										1	- WINN WINN
-50 dBm											
-30 0011											
-60 dBm											
oo abiii											
-70 dBm											
-80 dBm					<u> </u>						
-90 dBm											
											
CF 5.19 GHz				1001	pts					Span	100.0 MHz
Marker											
	Trc	X-value		Y-value		Funct	tion		Fun	ction Resul	t
M1	1	5.17871		-3.34 dB							
T1	1	5.1717183		-9.69 dB		0	cc Bw			36.5634	36563 MHz
T2	1	5.2082817	GHz	-9.40 dB	m						
						R	e a d y			4,20	12.06.2019

Date: 12.JUN.2019 20:55:51

Plot 2: U-NII-1; highest channel

Spectr	um										
Ref Lev Att SGL Co		15	dB SWT 1 ms		✔ 500 kHz ✔ 3 MHz M	ode	Sweep				, , , , , , , , , , , , , , , , , , ,
😑 1Pk Ma	ах										
-10 dBm				There	manufulliousy		0c	[1]~~,+ c Bw	v 1 2		-3.97 dBm 5.2222100 GHz 63336663 MHz
-20 dBm	_			{					<u> </u>		
-30 dBm	_		ال العام العام ال								
-40 dBm	a well	العهمها	hone man Maler						0. 10001.0	Web much where	had all all all all all all all all all a
	POP P										In warden of the
-50 dBm	-										
-60 dBm	_										
-70 dBm	_										
00 ID											
-80 dBm											
-90 dBm											
CF 5.23	GHz				1001	pts				Sp	an 100.0 MHz
Marker											
Туре	Ref		X-value		Y-value		Functi	on	F	unction Re	esult
M1		1	5.2222		-3.97 dB						
T1 T2		1	5.211718		-10.23 dB -10.51 dB		UC	сBw		36.6	63336663 MHz
							Re	a d y		100	12.06.2019

Date: 12.JUN.2019 21:01:04



Plot 3: U-NII-2A; lowest channel

Spectr	um											
Ref Lev	el -:	1.17 di	3m	🔵 RBW	/ 500 kHz							
Att		15	dB SWT 1 m	s 👄 VBW	/ 3 MHz M	lode	Sweep	1				
SGL Cou	int 2	00/200	D TDF									
∋1Pk Ma	×											
-10 dBm-				Thuman	www.rn.dubbj	a name	nan yan Marana ——————————————————————————————————		~ न् 2 ¥			-4.49 dBm 559000 GHz
							0	cc Bw	- Y.		36.5634	36563 MHz
-20 dBm-				/					-+			
-30 dBm-	_			/		-			_	<u> </u>		
-40 dBm- «الباناي)و	with	month	a malitage with not							Whenthe solder	when when the we	Mennemprov
-50 dBm-												10 . Contribution
-30 ubm-												
-60 dBm-	_											
-70 dBm-	_											
-80 dBm-												
-00 0011												
-90 dBm-												
CF 5.27	GHz				1001	pts	;				Span	100.0 MHz
Marker						<u> </u>						
Туре	Ref	Trc	X-value	.	Y-value		Func	tion		Fund	tion Resul	t
M1		1		59 GHz	-4.49 dB							
Τ1		1	5.25171		-10.76 dB		0	cc Bw			36.5634	36563 MHz
T2		1	5.28828	17 GHz	-11.68 dB	m						
) R	te ad y	(4/4	12.06.2019

Date: 12.JUN.2019 21:07:41

Plot 4: U-NII-2A; highest channel

Spectru	m	ľ									
Ref Leve Att SGL Coun	1	5 dB	SWT 1 m: TDF		VI500 kHz VI 3 MHz MI	lode	9 Sweep	1			
⊖1Pk Max	_				-						
-10 dBm—				Tahrhu	holdenning	m		1[1] **********	-I ²		-5.75 dBm 988100 GHz 536464 MHz
-20 dBm—				/					-\	-	
-30 dBm—				r							
-40 dBm— հայկակակութին -50 dBm—	an the spectrum	HAN AN	ngelanderforstelled naar ^{fer}						Waterton	WWWWWW	henrypeuralian
-60 dBm—											
-70 dBm—											
-80 dBm—											
-90 dBm—											
-100 dBm-											
CF 5.31 C	Hz				1001	. pts				Span	100.0 MHz
Marker	<i>c</i> 1 <i>m</i>						_				
Type R M1	ef Tro	_	X-value 5.2988		<u>Y-value</u> -5.75 dB		Func	tion	Fui	nction Resu	It
T1 T2		1	5.291718	33 GHz	-12.10 dE -10.71 dE	m	0	cc Bw		36.463	536464 MHz
						T) .	te ad y		1,70	12.06.2019

Date: 12.JUN.2019 21:13:00



Plot 5: U-NII-2C; lowest channel

Spectrum							
Ref Level - Att SGL Count 2	15 c		W 500 kHz W 3 MHz Mode	e Sweep			
1Pk Max							
-10 dBm		T Juán Ares	angelled the same for	M1[1]	w ^{T2}		-7.44 dBm 025100 GHz
-20 dBm				Occ Bw	<u> </u>	36.5634	136563 MHz
-30 dBm					4		
-40 dBm	wednesd	undumentation .			Monard	warena	
-50 dBm							
-60 dBm							
-70 dBm							
-80 dBm							
-90 dBm							
-100 dBm							
CF 5.51 GHz	2		1001 pt	s '		Span	100.0 MHz
larker							
Type Ref M1		X-value 5.50251 GHz	-7,44 dBm	Function	F	unction Resul	t
T1 T2	1 1 1	5.50251 GHz 5.4917183 GHz 5.5282817 GHz	-7.44 dBm -14.04 dBm -13.10 dBm	Occ Bw		36.5634	36563 MHz
				Ready		100	12.06.2019

Date: 12.JUN.2019 21:19:39

Plot 6: U-NII-2C; middle channel

Spectru	ım											
Ref Leve Att SGL Cou		15 c		RBW S VBW		ode	Sweep	1				
⊖1Pk Ma×	(
-10 dBm-	+		4	mJakk	moundary	m	M Waaaliyaa		w72			-7.34 dBm 750100 GHz
-20 dBm-	-						0	CC BW	\neg		36.5634	36563 MHz
-30 dBm-	-											
-40 dBm- 	undahuh	hann	wellienderwerden f						hannes	www	hluwhand	morener
-60 dBm-	-											
-70 dBm-	+											
-80 dBm-	-											
-90 dBm-	-											
-100 dBm	-											
CF 5.59	GHz				1001	pts		1			Span	100.0 MHz
Marker												
	Ref	Trc	X-value		Y-value		Func	tion		Funct	tion Resul	t
M1 T1 T2		1 1 1	5.57501 5.5717183 5.6082817	GHz	-7.34 dE -13.57 dE -13.84 dE	m	0	cc Bw			36.5634	36563 MHz
							R	te a d y		IID	420	12.06.2019

Date: 12.JUN.2019 21:24:50



Plot 7: U-NII-2C; highest channel

Spectru	um											
Ref Lev	el -2	.87 dBn	1	RBW	500 kHz							
Att		15 di	SWT 1 ms	o vbw	3 MHz	Mode	sweep					
SGL Cou	nt 20	0/200	TDF				·					
1Pk Ma	<											
-10 dBm-			Т	purshaw	mound	de la companya de la			∽¶2			-6.42 dBm 578000 GHz
-20 dBm-	_		+			_	00	CC BW	-		36.6633	36663 MHz
-30 dBm-	-				_	+)		
-40 dBm- -50 dBm-	mblir	yhulo wh	a the stand and the stand of th							Wheelastrage	mar Marin Ulary	hydroghtww
-60 dBm-						_						
-70 dBm-	-					_						
-80 dBm-	+					+					-	
-90 dBm-	-					_						
-100 dBm	-										_	
CF 5.67			- I		10	01 pts	5				Span	100.0 MHz
/arker												
	Ref	Trc	X-value	1	Y-value	1	Funct	tion		Fu	nction Resul	t
M1		1	5.6678	GHz	-6.42							-
Τ1		1	5.6517183	GHz	-12.49	dBm	0	cc Bw			36.6633	36663 MHz
T2		1	5.6883816	GHz	-13.75	dBm						
		(R	eady	1		100	12.06.2019

Date: 12.JUN.2019 21:29:58

Plot 8: U-NII-3; lowest channel

Spect	rum											
Ref Le	vel -	0.45 di	3m	🔵 RBW	' 500 kHz							
Att		15	dB SWT 1 m	s 👄 VBW	3 MHz N	lode	Sweep	1				
SGL C	ount 2	00/200	TDF									
😑 1Pk M	ах											
					all a list of the list of a		M	theman				-3.63 dBm
-10 dBr	_			Thomas	mannen	1 mm	**************	when	7₽.		5.74	76100 GHz
-10 UBI				17			0	cc Bw	1		36.5634	36563 MHz
-20 dBr				1					- \			
20 001	.			ľ					ւ			
-30 dBr	n——									<u>د</u>		
			and the second							1.		
-40 dBr	0	أدولوسيتهي	with population of							methaberly	Mr. M. Martha Martin	- alper alpertury and
Madrothe	all and a	r.u	unterproduction									mappinghtheoryphie
-50 dBr												
-60 dBr	n											
-70 dBr	n					-						
-80 dBr	n-+-					<u> </u>						
-90 dBr	n-+-					<u> </u>						
CF 5.7	55 GH	łz	1		1001	pts					Span	100.0 MHz
Marker						<u> </u>						
Туре		Trc	X-value	.	Y-value	1	Func	tion		Func	tion Result	· 1
M1		1		61 GHz	-3.63 dE	3m						
T1		1	5.73671	83 GHz	-10.55 dE	3m	0	cc Bw			36.5634	36563 MHz
T2		1	5.77328	17 GHz	-10.29 dB	3m						
		1				_		io a du	6		4.96	12.06.2019
						<u> </u>					all the second s	

Date: 12.JUN.2019 21:35:06



Plot 9: U-NII-3; highest channel

Spectrum											
Ref Level 0.	79 dBm		🛛 RBW	500 kHz							
Att	15 dB	SWT 1 ms	🕳 увж	3 MHz Mo	de	Sweep					
SGL Count 20	0/200	TDF				·					
∎1Pk Max											
		-	Tjuhim	mound	, m	nertrolli	httpur	7 72		5.80	-2.57 dBm 108900 GHz
-10 dBm			1			0	cc Bw	٩		36.6633	36663 MHz
-20 dBm			1					4			
-30 dBm		A						<u> </u> <u> </u>			
-30 dBm	unne	and although						Mon	ohashiyu	wormalized	
al A popular											- manufarthating
-50 dBm											
-60 dBm											
-70 dBm											
-80 dBm											
-00 0011											
-90 dBm											
CF 5.795 GH:	z			1001	pts	;				Span	100.0 MHz
/larker					<u> </u>						
Type Ref	Trc	X-value		Y-value		Funct	tion		Fund	tion Result	
M1	1	5.8008		-2.57 dB							
T1	1	5.776718		-9.27 dB		0	CC BW			36.6633	36663 MHz
T2	1	5.813381	6 GHz	-9.18 dB	m						
						R	e a d y			4,70	27.06.2019

Date: 27.JUN.2019 16:20:28



11.9 Band edge compliance radiated

Description:

Measurement of the radiated band edge compliance. The EUT is turned in the position that results in the maximum level at the band edge. Then a sweep over the corresponding restricted band is performed. The EUT is set to the lowest channel for the lower restricted band and to the highest channel for the upper restricted band. Measurement distance is 3m.

Measurement:

Measurement parameter						
Detector:	Peak / RMS					
Sweep time:	Auto					
Resolution bandwidth:	1 MHz					
Video bandwidth:	≥3 x RBW					
Span:	See plots!					
Trace mode:	Max Hold					
Test setup:	See sub clause 6.2 – A					
Measurement uncertainty:	See sub clause 8					

Limits:

Band Edge Compliance Radiated

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

	74 dBµV/m (peak)	
54	4 dBμV/m (average)	

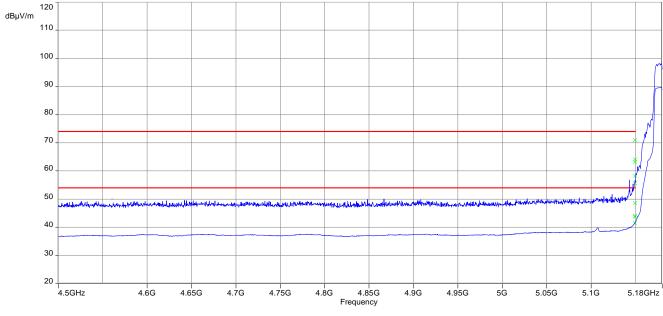
Result:

Scenario	Band Edge Compliance Radiated [dBµV/m]
band edge	< 74 dBµV/m (peak) < 54 dBµV/m (average)

Test report no.: 1-8662/19-02-03-A



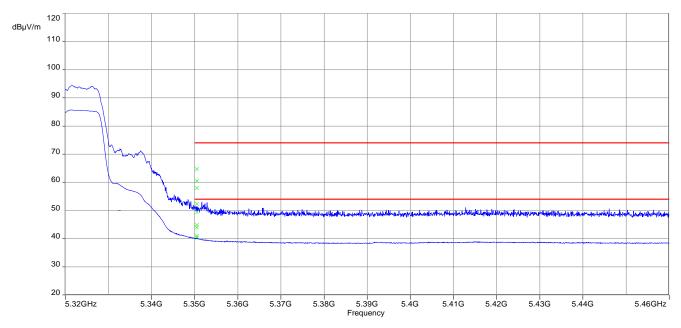
Plots:

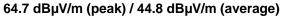


Plot 1: lower band edge; U-NII-1; lowest channel; 20 MHz channel bandwidth, a-mode

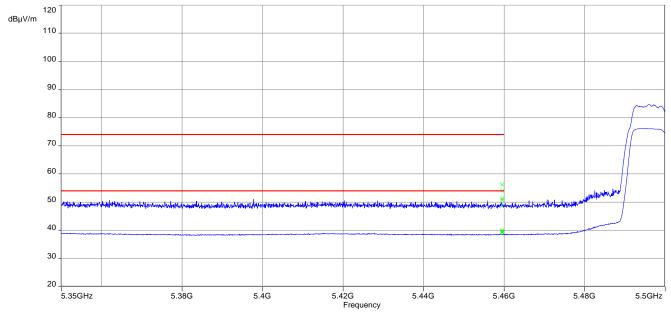


Plot 2: upper band edge; U-NII-2A; highest channel; 20 MHz channel bandwidth, a-mode





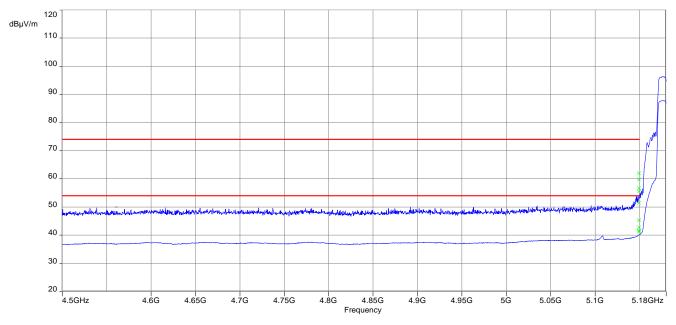
Test report no.: 1-8662/19-02-03-A



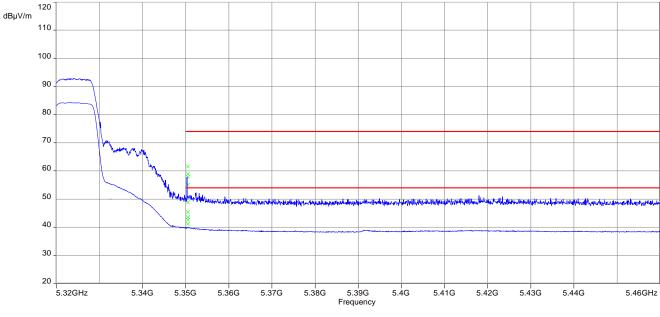
Plot 3: lower band edge; U-NII-2C; lowest channel; 20 MHz channel bandwidth, a-mode

56.2 dBµV/m (peak) / 39.9 dBµV/m (average)

Plot 4: lower band edge; U-NII-1; lowest channel; 20 MHz channel bandwidth, n HT20-mode



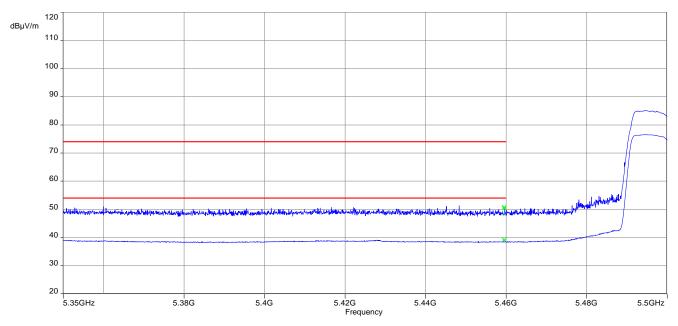




Plot 5: upper band edge; U-NII-2A; highest channel; 20 MHz channel bandwidth, n HT20-mode

61.6 dBµV/m (peak) / 45.4 dBµV/m (average)

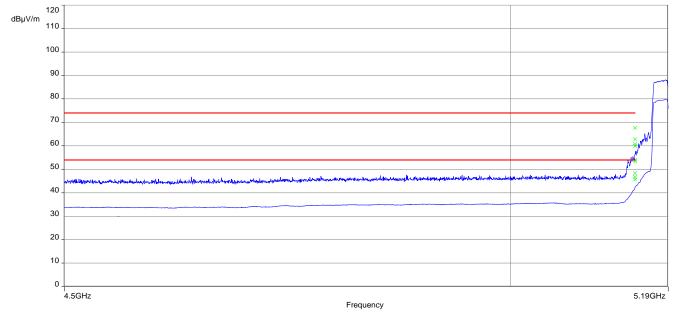
Plot 6: lower band edge; U-NII-2C; lowest channel; 20 MHz channel bandwidth, n HT20-mode



50.8 dBµV/m (peak) / 39.2 dBµV/m (average)

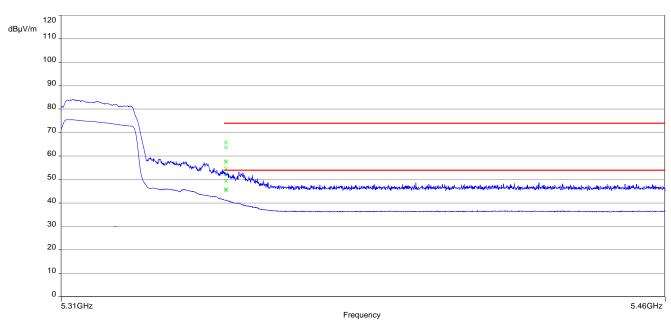
CTC I advanced member of RWTÜV group





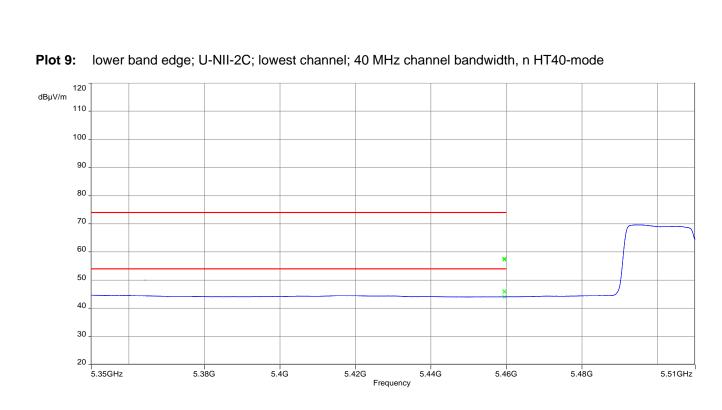
Plot 7: lower band edge; U-NII-1; lowest channel; 40 MHz channel bandwidth, n HT40-mode

67.7 dBµV/m (peak) / 53.3 dBµV/m (average)



Plot 8: upper band edge; U-NII-2A; highest channel; 40 MHz channel bandwidth, n HT40-mode

65.8 dBµV/m (peak) / 53.6 dBµV/m (average)



11.10 Spurious emissions radiated < 30 MHz

Description:

Measurement of the radiated spurious emissions in transmit mode and receive mode below 30 MHz. The EUT is set first to middle channel. This measurement is representative for all channels and modes. If critical peaks are found the lowest channel and the highest channel will be measured too. Then the EUT is set to receive or idle mode. The limits are recalculated to a measurement distance of 3 m with 40 dB/decade according CFR Part 2.

Measurement:

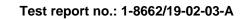
Measurement parameter					
Detector: Peak / Quasi Peak					
Sweep time:	Auto				
Video bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz				
Resolution bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz				
Span:	9 kHz to 30 MHz				
Trace mode:	Max Hold				
Test setup:	See sub clause 6.2 – B				
Measurement uncertainty:	See sub clause 8				

Limits:

Spurious Emissions Radiated < 30 MHz						
Frequency (MHz)	Field Strength (dBµV/m)	Measurement distance				
0.009 – 0.490	2400/F(kHz)	300				
0.490 – 1.705	24000/F(kHz)	30				
1.705 – 30.0	30	30				

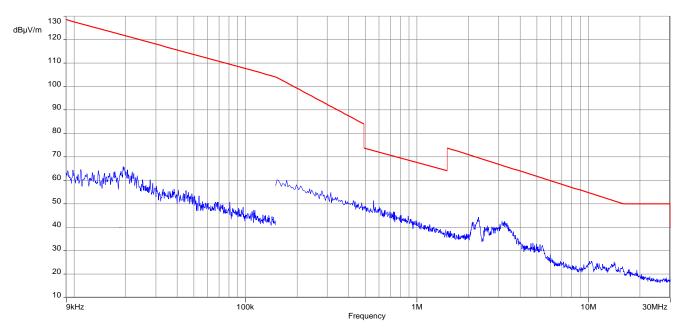
Results:

Spurious Emissions Radiated < 30 MHz [dBµV/m]							
F [MHz]	F [MHz] Detector Level [dBµV/m]						
All detected	All detected emissions are more than 20 dB below the limit.						

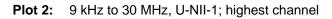


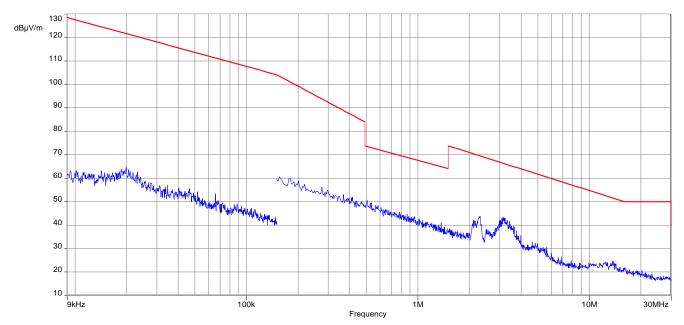


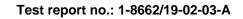
Plots: 20 MHz channel bandwidth

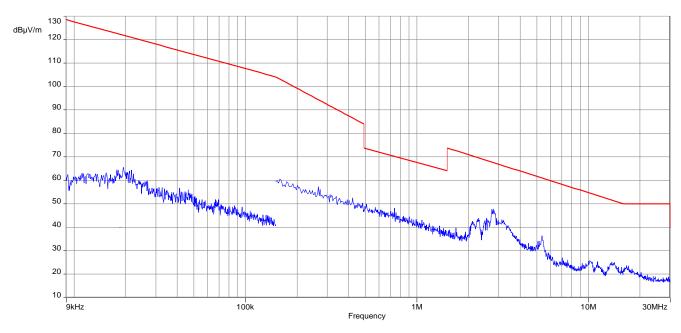


Plot 1: 9 kHz to 30 MHz, U-NII-1; lowest channel

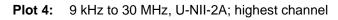


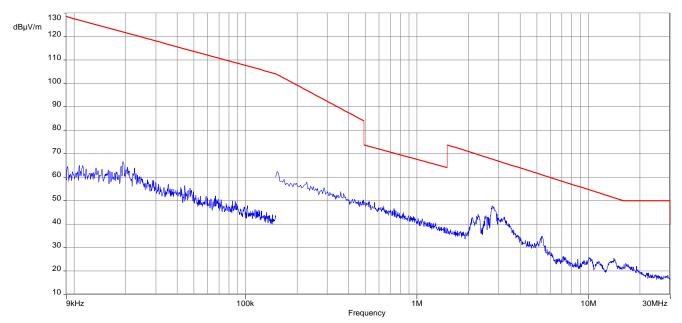


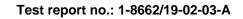


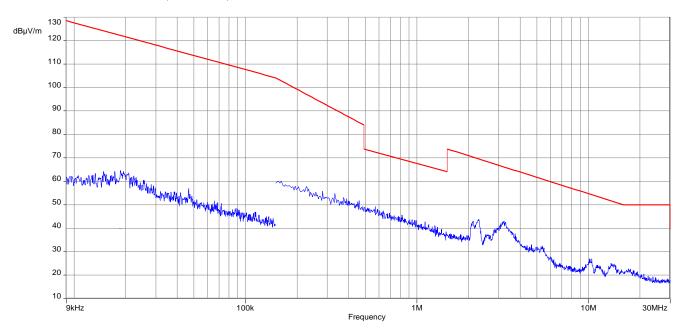


Plot 3: 9 kHz to 30 MHz, U-NII-2A; lowest channel

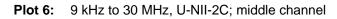


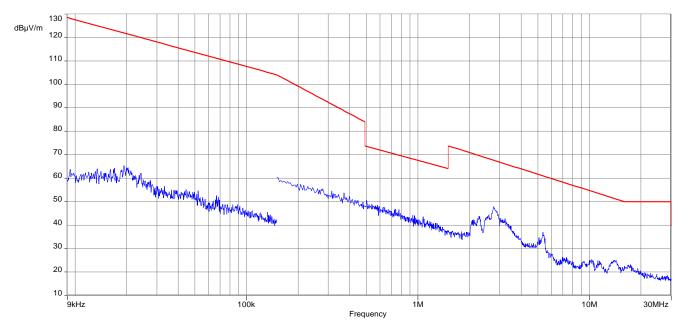


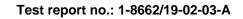


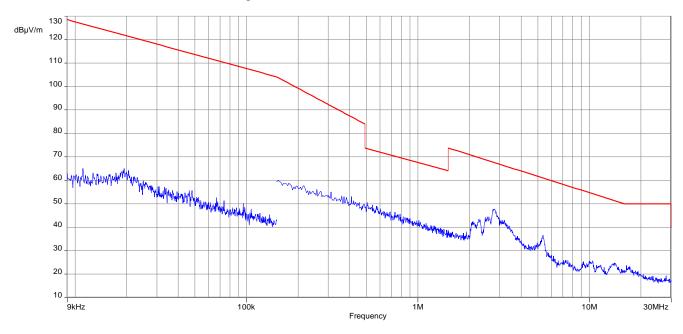


Plot 5: 9 kHz to 30 MHz, U-NII-2C; lowest channel

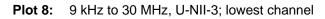


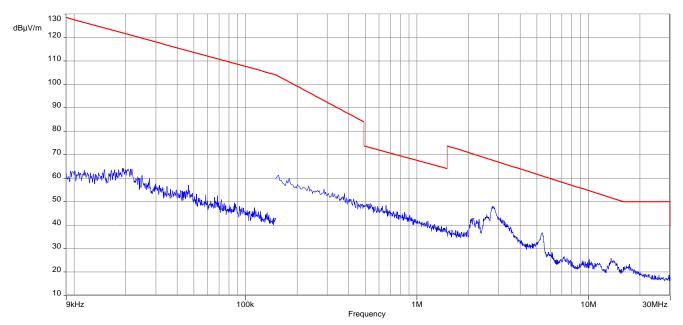


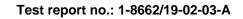


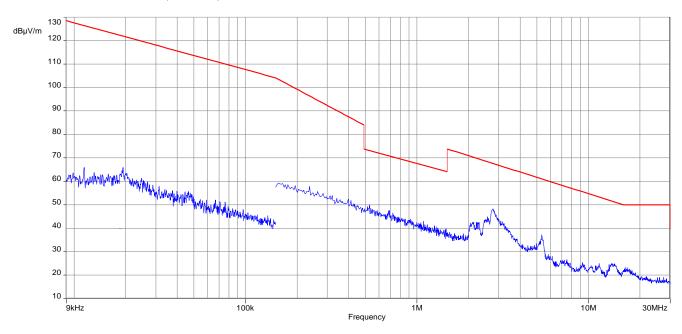


Plot 7: 9 kHz to 30 MHz, U-NII-2C; highest channel



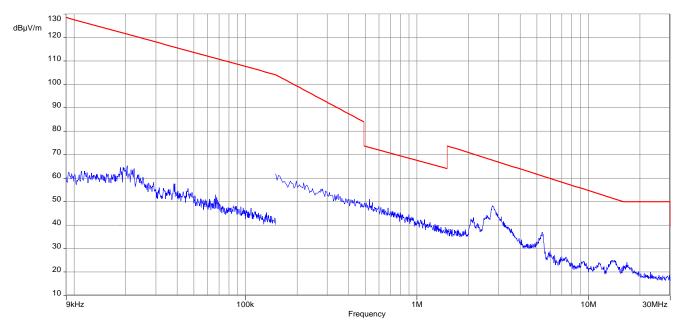


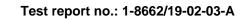




Plot 9: 9 kHz to 30 MHz, U-NII-3; middle channel

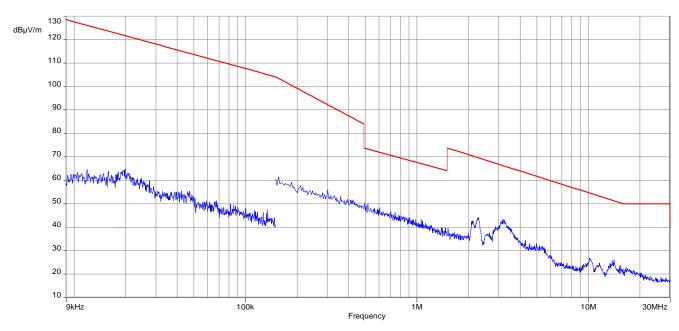
Plot 10: 9 kHz to 30 MHz, U-NII-3; highest channel



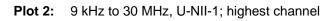


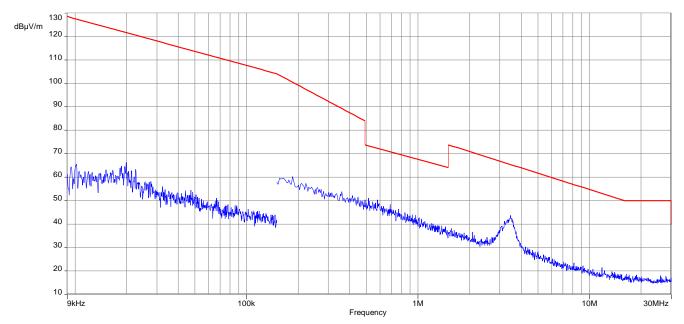


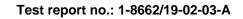
Plots: 40 MHz channel bandwidth

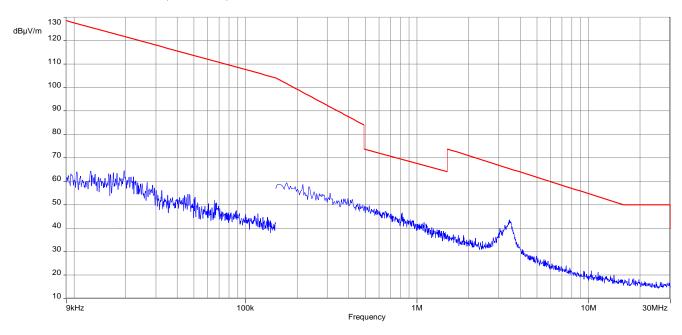


Plot 1: 9 kHz to 30 MHz, U-NII-1; lowest channel

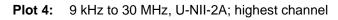


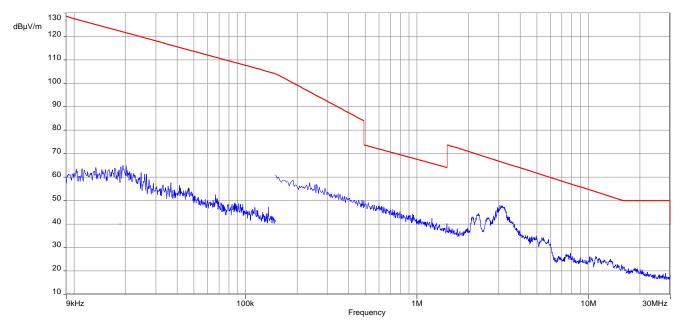


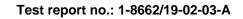


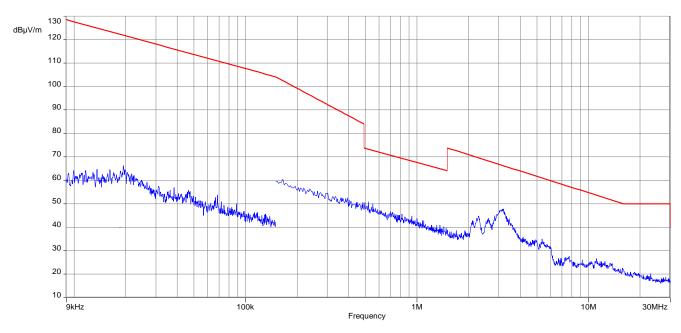


Plot 3: 9 kHz to 30 MHz, U-NII-2A; lowest channel

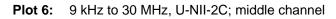


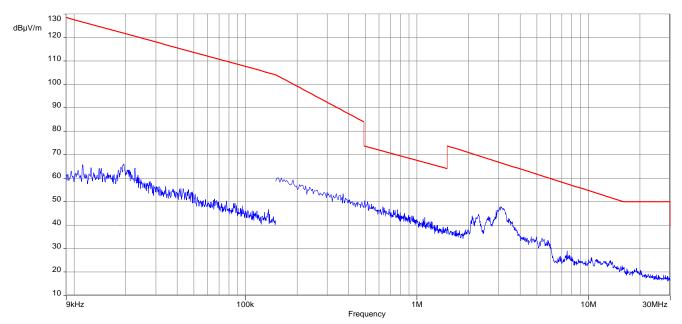


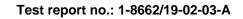


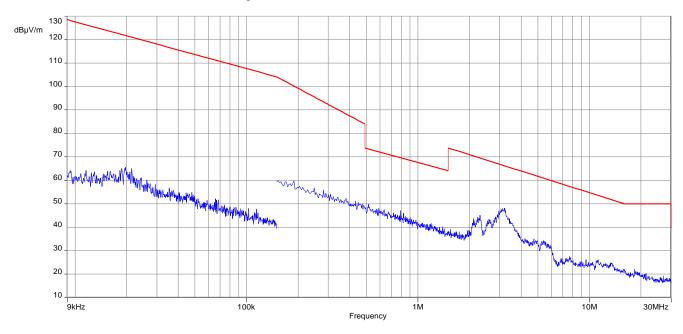


Plot 5: 9 kHz to 30 MHz, U-NII-2C; lowest channel

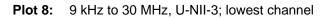


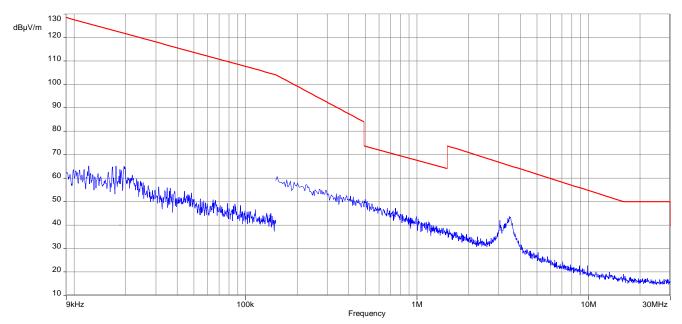


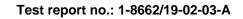


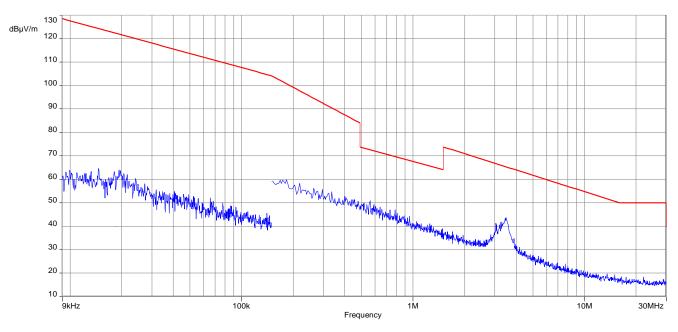


Plot 7: 9 kHz to 30 MHz, U-NII-2C; highest channel









Plot 9: 9 kHz to 30 MHz, U-NII-3; highest channel



11.11 TX spurious emissions radiated

Description:

Measurement of the radiated spurious emissions in transmit mode. The measurement is performed at lowest, middle and highest channel.

Measurement:

Measureme	nt parameter				
Detector:	Quasi Peak below 1 GHz (alternative Peak) Peak above 1 GHz / RMS				
Sweep time:	Auto				
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz				
Video bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: ≥ 3 MHz / 1 MHz				
Span:	30 MHz to 40 GHz				
Trace mode:	Max Hold / Average with 100 counts + 20 log (1 / X) for duty cycle lower than 100 %				
Test setup:	See sub clause 6.1 – A See sub clause 6.2 – A See sub clause 6.3 – A				
Measurement uncertainty:	See sub clause 8				

Limits:

	TX Spurious Emissions Radiated	
	§15.209	
Frequency (MHz)	Field Strength (dBµV/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 - 960	36.0	10
Above 960	54.0	3
	§15.407	
Outside the restricted bands!	-27 dBr	n / MHz



Results: 20 MHz channel bandwidth

	TX Spurious Emissions Radiated [dBµV/m] / dBm											
	U-NII-1 (5150 MHz to 5250 MHz)											
Lowest channel Middle channel Highest channel								nel				
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	[0					
1440	Peak	41.2		Peak		1440	Peak	41.2				
1440	AVG	35.4		AVG		1440	AVG	35.4				
	Peak			Peak			Peak					
	AVG			AVG			AVG					
	ons above 18		For emissions above 18 GHz please			For emissions above 18 GHz please						
tak	e look at the p	olots.	take	look at the p	olots.	take	e look at the p	lots.				

	TX Spurious Emissions Radiated [dBµV/m] / dBm											
U-NII-2A (5250 MHz to 5350 MHz)												
L	owest chann	nel	M	liddle chann	el	Hi	ighest chanr	nel				
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	F [MHz] Detector [d					
1440	Peak	41.2		Peak		1440	Peak	41.2				
1440	AVG	35.4		AVG		1440	AVG	35.4				
	Peak			Peak			Peak					
	AVG			AVG			AVG					
	ons above 18 e look at the p		For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.						

	TX Spurious Emissions Radiated [dBµV/m] / dBm											
	U-NII-2C (5470 MHz to 5725 MHz)											
Lowest channel Middle channel Highest channel							nel					
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]				
1440	Peak	41.2	1440	Peak	41.2	1440	Peak	41.2				
1440	AVG	35.4	1440	AVG	35.4	1440	AVG	35.4				
	Peak			Peak		11400	Peak	54.1				
	AVG			AVG		11400	AVG	43.8				
	For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.					

	TX Spurious Emissions Radiated [dBµV/m] / dBm										
U-NII-3 (5725 MHz to 5850 MHz)											
L	Lowest channel Middle channel Highest channel										
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	MHz] Detector [dB				
1440	Peak	41.2	1440	Peak	41.2	1440	Peak	41.2			
1440	AVG	35.4	1440	AVG	35.4	1440	AVG	35.4			
7660	Peak	50.1		Peak			Peak				
7000	AVG	44.2		AVG			AVG				
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.					



Results: 40 MHz channel bandwidth

	TX Spurious Emissions Radiated [dBµV/m] / dBm										
	U-NII-1 (5150 MHz to 5250 MHz)										
Lowest channel Middle channel Highest channel											
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Level [dBµV/m]				
1440	Peak	41.2		Peak		1440	Peak	41.2			
1440	AVG	35.4		AVG		1440	AVG	35.4			
	Peak			Peak			Peak				
	AVG			AVG			AVG				
	ons above 18 e look at the p		For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.					

	TX Spurious Emissions Radiated [dBµV/m] / dBm											
U-NII-2A (5250 MHz to 5350 MHz)												
Lowest channel Middle channel Highest channel							nel					
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	[MHz] Detector [d					
1440	Peak	41.2		Peak		1440	Peak	41.2				
1440	AVG	35.4		AVG		1440	AVG	35.4				
	Peak			Peak			Peak					
	AVG			AVG			AVG					
	For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.					

	TX Spurious Emissions Radiated [dBµV/m] / dBm										
	U-NII-2C (5470 MHz to 5725 MHz)										
L	Lowest channel Middle channel Highest channel							nel			
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]			
1440	Peak	41.2	1440	Peak	41.2	1440	Peak	41.2			
1440	AVG	35.4	1440	AVG	35.4	1440	AVG	35.4			
	Peak			Peak			Peak				
	AVG			AVG			AVG				
	For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.				

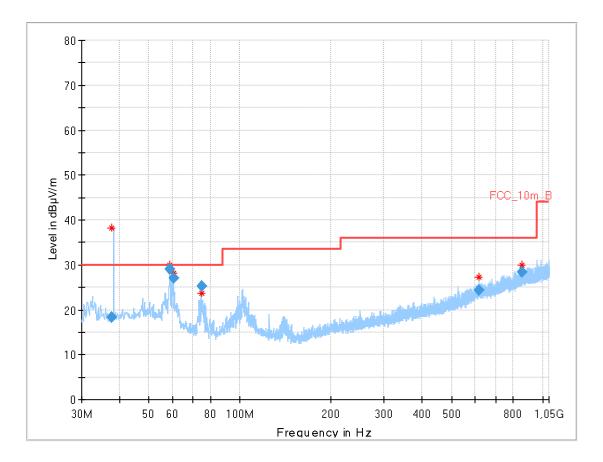
	TX Spurious Emissions Radiated [dBµV/m] / dBm											
	U-NII-3 (5725 MHz to 5850 MHz)											
L	owest chann	nel	М	liddle chann	el	Hi	ighest chanr	nel				
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	Detector	Level [dBµV/m]					
1440	Peak	41.2		Peak		1440	Peak	41.2				
1440	AVG	35.4		AVG		1440	AVG	35.4				
	Peak			Peak			Peak					
	AVG		AVG				AVG					
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.						

Test report no.: 1-8662/19-02-03-A



Plots: 20 MHz channel bandwidth

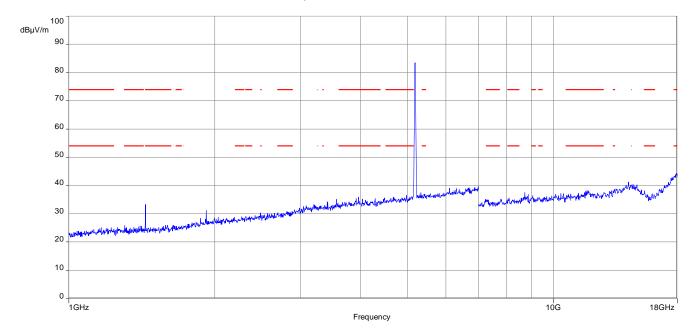
Plot 1: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



Final results:

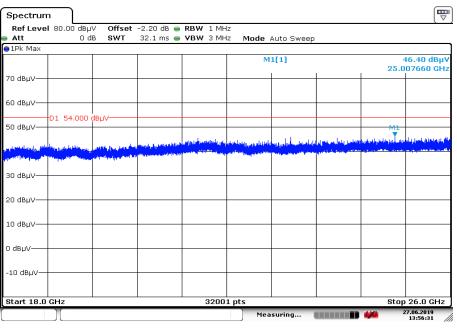
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.814	18.30	30.0	11.70	1000	120	101.0	V	165.0	14
58.712	29.12	30.0	0.88	1000	120	170.0	V	-8.0	13
60.226	27.03	30.0	2.97	1000	120	101.0	V	163.0	13
74.556	25.21	30.0	4.79	1000	120	170.0	V	340.0	11
617.278	24.28	36.0	11.72	1000	120	170.0	Н	19.0	21
856.148	28.43	36.0	7.57	1000	120	170.0	Η	280.0	23





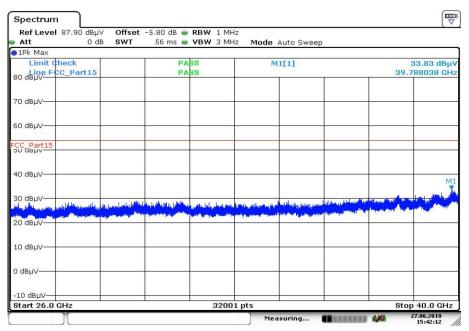
Plot 2: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; lowest channel

Plot 3: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



Date:27.JUN.2019 13:56:31



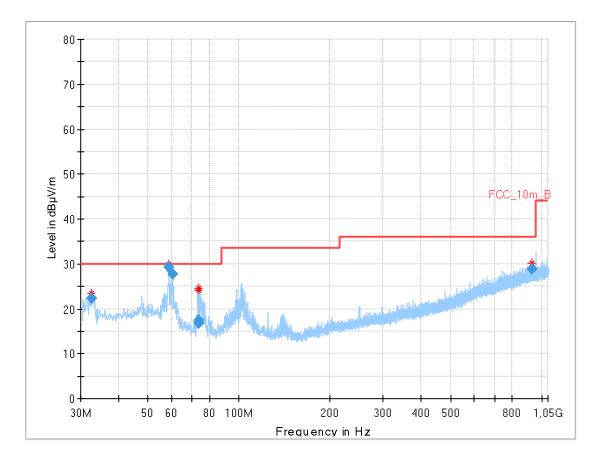


Plot 4: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; lowest channel

Date: 27.JUN.2019 15:42:11



Plot 5: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-1; highest channel



Final results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.582	22.26	30.0	7.74	1000	120	101.0	V	338.0	13
58.714	29.28	30.0	0.72	1000	120	170.0	V	2.0	13
60.218	27.64	30.0	2.36	1000	120	101.0	V	28.0	13
73.906	16.83	30.0	13.17	1000	120	101.0	V	0.0	11
73.923	17.51	30.0	12.49	1000	120	170.0	V	0.0	11
927.068	28.90	36.0	7.10	1000	120	170.0	Η	107.0	24