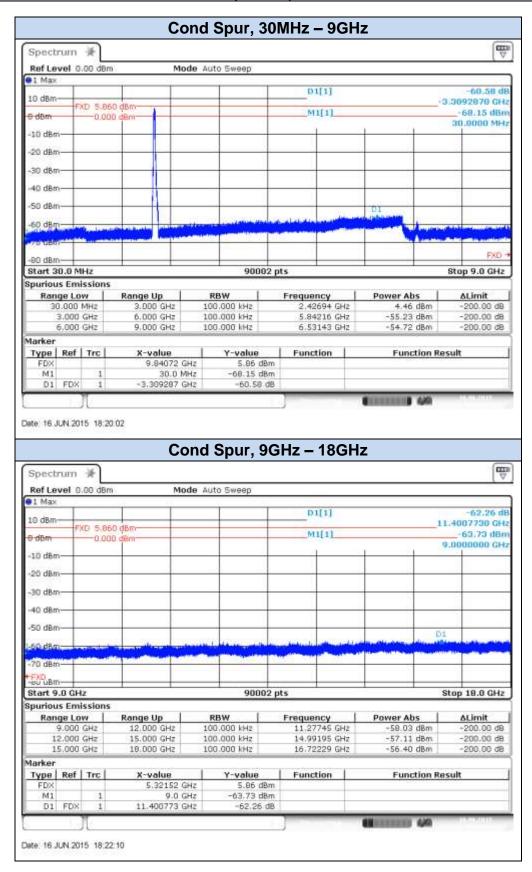


Spect	rum	*								
Ref Le	vel 0	.00 d8m	2	Mode	Auto Sweep					
1 Max	8.12		121 13							
10 dBm							01[1]		14	-59.41 dt .8027300 GH
0 dBm	E	XD 4.400) dBm				M1[1]			-60.27 dBn
10.10							1	1	18	.0000000 GH
-10 dBm										
-20 dBm	+		-		-		-			
-30 dBm	+		-		_		-			-
-40 dBm	+						1			
-50 dBm	-		-							
andre.		and the second se	a second	Linda .	1.000 000 000 000 000	and a local sector			Contraction of the	and a standard
			a successive and	and the second				and the second second		
-70 dBm	-		-				-			
-FXD	-									
Start 1		Hz	-		9000	2 pts	-		S	top 25.0 GHz
Spuriou	s Em	issions	(1.11	
	ge Lo		Range Up	1	RBW	Frequ		Power Ab		ALimit
	8.000	and the second second	21.000 GH	<u> </u>	100.000 kHz		12425 GHz	-55.01		-200.00 dB
	1.000		24.000 GH 25.000 GH		100.000 kHz 100.000 kHz		40477 GHz 75792 GHz	-55.34		-200.00 dB
	4,000	GHZ	25.000 GH	2	100.000 KH2	24.1	15792 GH2	-55.31	abm	-200,00 dB
Marker	-					1				
Type FDX	Ket	Inc	X-value 5.3215	2 64-	Y-value 4.40 dB		ction	Func	tion Res	suit
MI	_	1		0 GHz	-63.27 dB					
D1	FDX	1	14.8027		-59.41 0					
	-	11	a stranger			1		distant in the local division of the local d	630	
						1		distant in the local distance in the local d	-	



802.11n40, HT8 (MIMO) – Chain B, CH3F

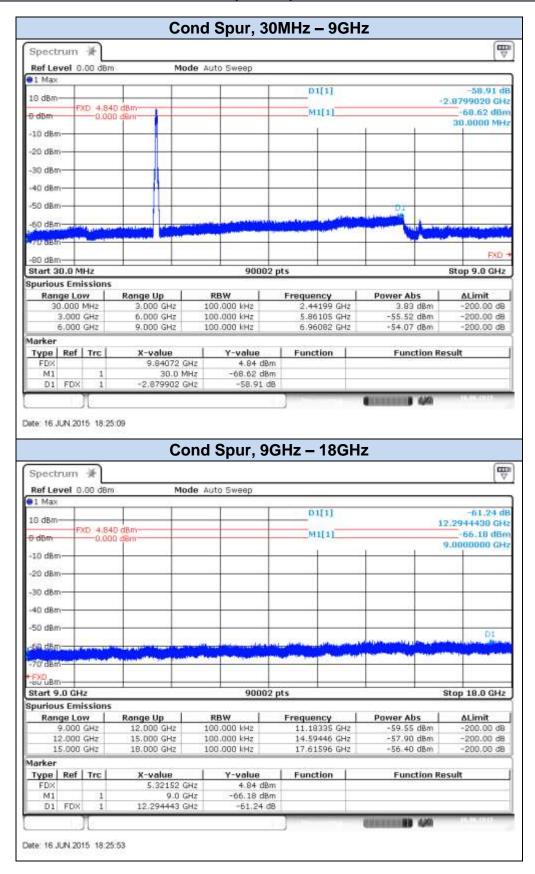




Spectr	um	*										
RefLev	vel 0	.00 dBm		Mode	Auto Sweep							
1 Max			101 A.S			7.5						
10 dBm-							D	[1]				-60.59 di
TO OPIU-	(F)	D 5,860	dBm			_					17.	5817660 GH
0 dBm	-	-0.000	dem			-	M	1[1]			10.0	-62,55 dBn 1000000 CH
-10 dBm	+		-		_	-		-	1	- 1	10.1	
-20 dBm	+		-		-	-			_	-		
-30 dBm	-				_	-				_		-
-40 dBm	-					-				-		-
-50 dBm						_			100			
a land					and the second second				-14		and a state	
-				-		-						
-70 dBm	_			-	1	_						
-FXD	1		1 1				i i					
Start 1			1 1		00	002 pt						op 25.0 GHz
Spuriou	Chiefe Stationers of			_	90	uuz pu	.>				au	op 20.0 GH2
And the second second	ae Lo	and the second	Range Up	1	RBW	1 2	Freque	neu I	Denne	r Abs	-	∆Limit
	3.000		21.000 GH	2	100.000 kHz			875 GHz		5.06 dBm	-	-200.00 dB
	.000	and the second se	24.000 GH		100.000 kHz		and the set of the set of	329 GHz		4.73 dBm	1	-200.00 dB
24	4.000	GHz	25.000 GH	2	100.000 kHz		24.77	286 GHz		5.39 dBm	1	-200,00 dB
larker	-	Constant Statement	Charles and Survey of the		HIGH STREET HIGH STREET			ADD CHILDREN IN		AND STREET, ST		
Type	Ref	Trc	X-value		Y-volu	.	Fund	tion	1	unction	Resi	JIT.
FDX			5.3215		5.86	and the second second		99900 - E		shi centre ni		ac i
M1		1		0 GHz	-62.55							
D1	FDX	1	17,58176	6 GHz	-60.5	9 d8						
	1.1	10					-	-	BREET.		1	CONTRACTOR OF



802.11n40, HT8 (MIMO) – Chain B, CH6F

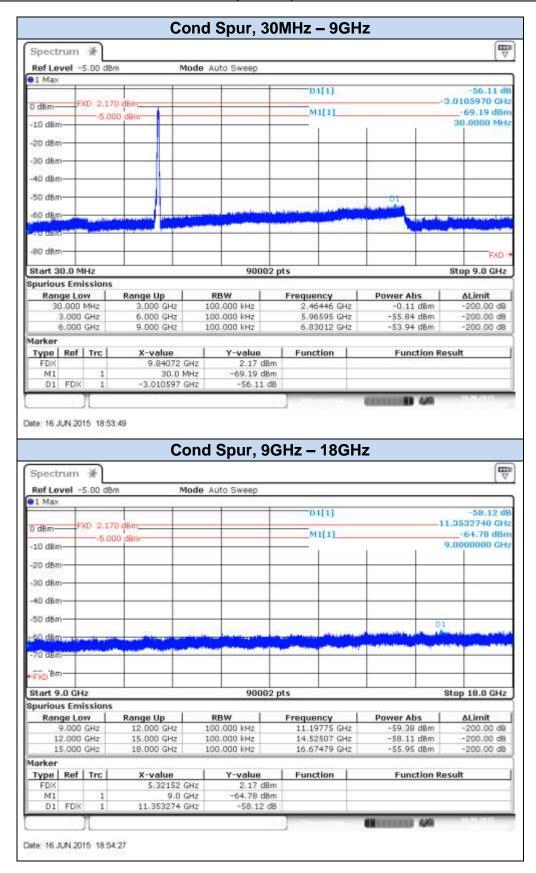




Spectr	um	*								C C C C C C C C C C C C C C C C C C C
Ref Lev	vel 0	.00 d8m		Mode	Auto Sweep					
1 Max	1.00		10 M		10					
10 dBm-	-				_	DI	(1)		14	-58.79 dE
0 dBm	- F)	D 4.840			_	M	1[1]			-61.60 dBm
-10 dBm	_				_			1	18	.0000000 GH
-20 dBm	_		-		-					
-30 dBm	_				_					_
-40 dBm	-				_					
-50 dBm				DI						
Long to a					and the second second	in the second	and an and a start of		and the second	and the sector
une Office	-			-	and the second se	States and States	disati sussel di bis	The second second	on the state of the	
-70 dBm	+		+ +		5-44 <u>0</u> 5-11					1000
-FXD										
Start 1		Hz			90002	pts			S	top 25.0 GHz
Spuriou	s Emi	ssions								
Ran	je Lo	w	Range Up	1	RBW	Freque	ncy	Power Abs	. I	ALimit
	8.000	and the second se	21.000 GH		100.000 kHz		355 GHz	-53.95 (-200.00 dB
	.000		24.000 GH;		100.000 kHz		864 GHz	-54.69 c		-200.00 dB
24	+,000	GHZ	25.000 GH		100.000 kHz	24.73	893 GHz	-55.14 0	1Bm	-200,00 dB
Marker								1.0000000000000000000000000000000000000		
Туре	Ref	Trc	X-value		Y-value	Funct	tion	Funct	ion Res	sult
FDX			5.3215		4.84 dBm					
M1	-	1	and the second s	0 GHz	-61.60 dBm					
D1	FDX	1	14.9820	3 GH2	-58.79 dB					
	1.0	1						C	100	104.09.0010



802.11n40, HT8 (MIMO) – Chain B, CH9F





Spect	num	-)#-										tu in the second secon
Ref Le	vel -	5.00 dBm		Mode	+ Auto	Sweep						
I Max	1		19 ⁻ 19		1			_				
1		a server a s	1					D1	(1)			-56.54 dE
0 dBm-	(F)	(D 2.170	all the second second		-		-	M	1[1]			14.4088300 GH: -61.01 dBn
-10 dBm		-5.000) d8m									18.0000000 GH
-10 UDI										1	1 1	1
-20 dBm	-		-		-		-			-	-	
-30 dBm					_		<u> </u>					
			1					1				
-40 dBm	-									-		
-50 dBm	-		01				-				-	
and the second second		HALL BALL	and a state	and the second	anana a		hile		and the state	and the second	Mary Mary	and the manual
-			-						the state of the s		-	
-70 dBm					-		-	_		-	_	
	5 T.		1 1				1	1				
+FXD Br												
Start 1	8.0 G	Hz			_	9000	2 pt	5		-		Stop 25.0 GHz
Spuriou	s Emi	issions				1.01.01.01						
Ran	ge Lo	w	Range Up	3	RBV	V	- 8	Freque	ncy	Powe	r Abs	ALimit
	3.000	and the second second	21.000 GH		and the second second	00 kHz			035 GHz		4.37 dBm	-200.00 dB
	000.1		24.000 GH;			00 kHz			523 GHz		4.93 dBm	-200.00 dB
2	4.000	GHZ	25.000 GH		100.0	00 kHz		24,87	125 GHz	-5	5.42 dBm	-200,00 dB
Marker												
Type	Ref	Trc	X-value	second 14	-	Y-value	_	Funct	tion	1	Function R	esult
FDX			5.3215		-	2.17 d	Contraction in the					
M1	FDX	1	18.	0 GHz	-	-61.81 d						
- 51	1 Min		24,4000	a ans	-	00104				-	THE PARTY OF	
		N								CHARTER OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE	10 6/0	1.14.09.2010



B.4 Power Spectral Density

Test limits:

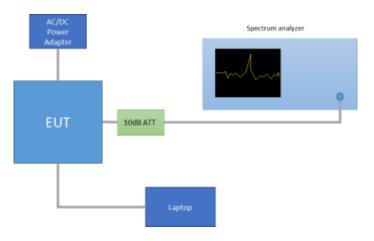
FCC part	RSS part	Limits
15.247 (e)	RSS-247 Clause 5.2 (2)	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test procedure:

The peak power spectral density level in the fundamental emission was measured using the method of trace averaging with EUT transmitting at full power throughout each sweep according to point 10.2 of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r02 dated 2014/06/05. This method was used for 802.11b, 802.11g, 802.11n20 an 802.11n40 modes. The peak power spectral density level was used as reference from the marker-delta method measurement of the out of band emissions.

For MIMO mode, the *Measure and add 10 log*(N_{ANT}) *dB*, (where N_{ANT} is the number of outputs) technique was used according to the Guidance for Emission Testing of Transmitters with Multiple Outputs in the Same Band 662911 D01 Multiple Transmitter Output v02r01 dated 2013/10/31. With this technique, spectrum measurements are performed at each output of the device, and the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. Number of outputs = 2.

The setup below was used to measure the power spectral density. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.





Results tables:

PSD RMS

~ ~ ~	
SISO	modes

SISO modes	5					PSD R	MS [dBm]
Mode	Rate	Meas. Duty Cycle [%]	СН	Frequency [MHz]	Antenna	Measured Conducted	Duty cycle Compensated
			1	2412	SISO CHAIN A	3.1	3.2
			I	2412	SISO CHAIN B	1.7	1.7
		-	e	2427	SISO CHAIN A	3.5	3.6
			6	2437	SISO CHAIN B	2.3	2.4
000 446	1Mbps	00.7	4.4	2462	SISO CHAIN A	0.3	0.3
802.11b		98.7	11	2462	SISO CHAIN B	-2.0	-2.0
		-	40	0.407	SISO CHAIN A	-3.4	-3.4
			12	2467	SISO CHAIN B	-5.3	-5.2
		-	40	0.470	SISO CHAIN A	-9.7	-9.6
			13	2472	SISO CHAIN B	-10.1	-10.1
			4	0.110	SISO CHAIN A	-1.8	-1.7
			1	2412	SISO CHAIN B	-4.0	-3.9
		-	0	0.407	SISO CHAIN A	1.2	1.3
			6	2437	SISO CHAIN B	0.5	0.6
000.44~	CMbaa	09.7	11	2462	SISO CHAIN A	-1.4	-1.3
802.11g	6Mbps	98.7	11	2462	SISO CHAIN B	-2.4	-2.3
		-	40	2467	SISO CHAIN A	-9.1	-9.1
			12		SISO CHAIN B	-9.7	-9.6
		-	40	0.470	SISO CHAIN A	-24.4	-24.3
			13	2472	SISO CHAIN B	-24.4	-24.3
			4	2412	SISO CHAIN A	-3.3	-3.2
			1	2412	SISO CHAIN B	-4.7	-4.6
		-	0	0.407	SISO CHAIN A	1.7	1.8
			6	2437	SISO CHAIN B	0.3	0.5
000 11-00		07.5	44	0400	SISO CHAIN A	-1.8	-1.7
802.11n20	HT0	97.5	11	2462	SISO CHAIN B	-2.4	-2.3
			10	0467	SISO CHAIN A	-10.4	-10.3
			12	2467	SISO CHAIN B	-12.2	-12.1
			10	0470	SISO CHAIN A	-24.9	-24.8
			13	2472	SISO CHAIN B	-24.7	-24.6



SISO modes						PSD R	MS [dBm]
Mode	Mode Rate [%]		СН	Frequency [MHz]	Antenna	Measured Conducted	Duty cycle Compensated
			3F	2422	SISO CHAIN A	-6.7	-6.6
			ЗГ	2422	SISO CHAIN B	-7.7	-7.5
			6F	2437	SISO CHAIN A	-1.7	-1.5
			01	2437	SISO CHAIN B	-2.7	-2.5
802.11n40	HT0	96.7	9F	2452	SISO CHAIN A	-6.6	-6.4
802.111140	піо	90.7	96	2452	SISO CHAIN B	-9.2	-9.1
			10F	2457	SISO CHAIN A	-15.4	-15.1
			IUF	2437	SISO CHAIN B	-16.1	-15.8
			445	2462	SISO CHAIN A	-27.5	-27.2
			11F	2402	SISO CHAIN B	-27.9	-27.6

MIMO mod	es					PSD RMS [dBm	ן	
Mode	Rate	Meas. Duty Cycle [%]	СН	Freq. [MHz]	Antenna	Measured Conducted	Duty cycle Compensated	MIMO Compensated +10·log(N _{ant})
			1	2412	CHAIN A	-4.4	-4.3	-1.3
			I	2412	CHAIN B	-4.3	-4.1	-1.1
		07	6	2437	CHAIN A	-1.0	-0.9	2.1
		97	0	2437	CHAIN B	-2.2	-2.1	0.9
802.11n20 HT8			11	2462	CHAIN A	-1.9	-1.8	1.2
			11	2402	CHAIN B	-5.0	-4.9	-1.9
			12	0.407	CHAIN A	-11.5	-11.4	-8.4
		98.7	12	2467	CHAIN B	-12.4	-12.3	-9.3
		90.7	13	2472	CHAIN A	-26.1	-26.0	-23.0
			13	2472	CHAIN B	-25.1	-25.0	-22.0
			3F	2422	CHAIN A	-10.3	-10.1	-7.1
			ЭГ	2422	CHAIN B	-10.1	-9.9	-6.9
		96.7	6F	2437	CHAIN A	-5.2	-5.1	-2.1
		90.7	OF	2437	CHAIN B	-6.2	-6.0	-3.0
802.11n40	HT8		9F	2452	CHAIN A	-7.6	-7.4	-4.4
002.111140	пю		эг	2492	CHAIN B	-9.0	-8.9	-5.9
			10F	2457	CHAIN A	-15.7	-15.4	-12.4
		92.9	IUP	2407	CHAIN B	-16.5	-16.2	-13.2
		92.9	11F	2462	CHAIN A	-26.9	-26.6	-23.3
				2402	CHAIN B	-28.7	-28.4	-25.4

Rev. 00



PSD Peak

Note: these PSD_{Peak} values are shown just as a reference for the compliance of the Out-of-band Measurements. thus the RBW used for these measurements was 100kHz.

In any case, the corresponding PSD Peak value at 3kHz can be derived from these results by using the RBW correction:

$$PSD_{Peak}@3kHz = PSD_{Peak}@100kHz - 10log\left(\frac{100kHz}{3kHz}\right)$$

For the maximum PSD_{Peak} value found (12.52dBm). the corresponding PSD_{Peak} at 3kHz is -2.71dBm.

Mode	Rate	Measured Duty Cycle [%]	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
			1	2412	SISO CHAIN A	12.5
			Ι	2412	SISO CHAIN B	11.0
			6	2437	SISO CHAIN A	12.7
			0	2437	SISO CHAIN B	11.6
802.11b	1Mbps	98.7	11	2462	SISO CHAIN A	9.5
002.110	ninips	90.7	11	2402	SISO CHAIN B	7.5
			10	2467	SISO CHAIN A	5.9
			12	2407	SISO CHAIN B	4.2
			13	2472	SISO CHAIN A	-0.4
			15	2472	SISO CHAIN B	-0.7
			1	2412	SISO CHAIN A	7.9
			-	2412	SISO CHAIN B	5.8
			6	2437	SISO CHAIN A	10.9
			0	2437	SISO CHAIN B	10.2
802.11g	6Mbps	98.7	11	2462	SISO CHAIN A	8.0
002.11g		30.7		2402	SISO CHAIN B	7.0
			12	2467	SISO CHAIN A	0.2
			12	2107	SISO CHAIN B	-0.1
			13	2472	SISO CHAIN A	-14.9
			15	2472	SISO CHAIN B	-14.6
			1	2412	SISO CHAIN A	6.7
			-	2412	SISO CHAIN B	5.3
			6	2437	SISO CHAIN A	11.6
			0	2437	SISO CHAIN B	10.4
802.11n20	HT0	97.5	11	2462	SISO CHAIN A	7.8
002.11120	1110	31.3		2702	SISO CHAIN B	7.0
			12	2467	SISO CHAIN A	-0.8
			12	2707	SISO CHAIN B	-2.4
			13	2472	SISO CHAIN A	-15.9
			15	2712	SISO CHAIN B	-14.2

SISO modes



SISO modes

Mode	Rate	Measured Duty Cycle [%]	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
			3F	2422	SISO CHAIN A	3.8
			эг	2422	SISO CHAIN B	2.9
	НТО	96.7	6F	2437	SISO CHAIN A	9.2
			01	2437	SISO CHAIN B	7.8
802.11n40			9F	2452	SISO CHAIN A	4.6
002.111140			31	2402	SISO CHAIN B	1.7
			10F	2457	SISO CHAIN A	-4.7
			IUF	2437	SISO CHAIN B	-5.6
			11F	2462	SISO CHAIN A	-16.6
				2402	SISO CHAIN B	-17.2

MIMO mod	es					PSD	Peak [dBm]
Mode	Rate	Meas. Duty Cycle [%]	сн	Freq. [MHz]	Antenna	Measured Conducted	MIMO Compensated +10·log(N _{ant})
			1	2412	CHAIN A	5.8	8.8
			1	2412	CHAIN B	6.2	9.21
			6	2437	CHAIN A	8.8	11.8
			0	2437	CHAIN B	8.3	11.3
802.11n20	HT8	97.0	11	2462	CHAIN A	8.2	11.2
002.111120	пю	97.0		2402	CHAIN B	5.8	8.8
			12	2467	CHAIN A	-1.7	1.3
			12	2407	CHAIN B	-1.9	1.1
			13	2472	CHAIN A	-16.0	-13
			15	2472	CHAIN B	-14.5	-11.5
			3F	2422	CHAIN A	0.7	3.7
			51	2722	CHAIN B	0.6	3.6
			6F	2437	CHAIN A	5.9	8.9
			01	2437	CHAIN B	4.8	7.8
802.11n40	НТ8	96.7	9F	2452	CHAIN A	3.8	6.8
002.111140	пю	90.7	91	2452	CHAIN B	2.0	5.0
			10F	2457	CHAIN A	-4.8	-1.8
			TUP	2457	CHAIN B	-5.4	-2.4
			11F	2462	CHAIN A	-16.4	-13.4
				2402	CHAIN B	-17.8	-14.8

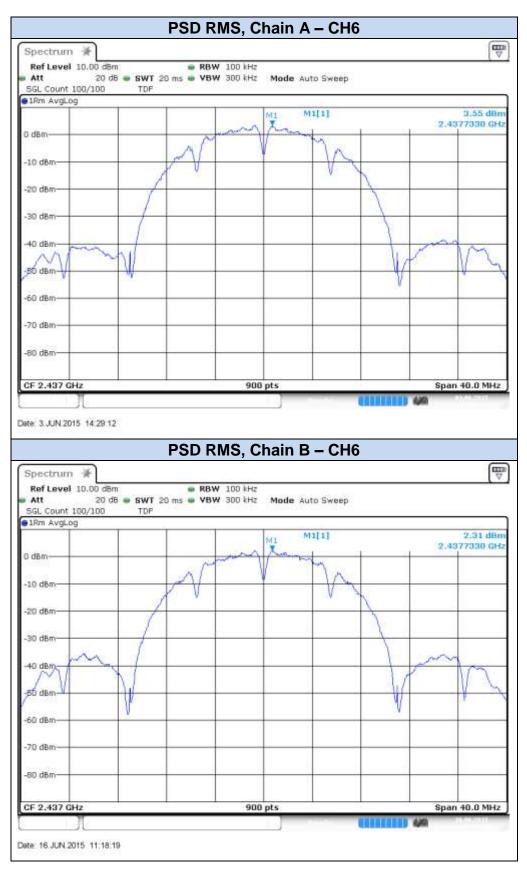
Test Report N°15051101.TR05



Results screenshot:

802.11b, 1Mbps

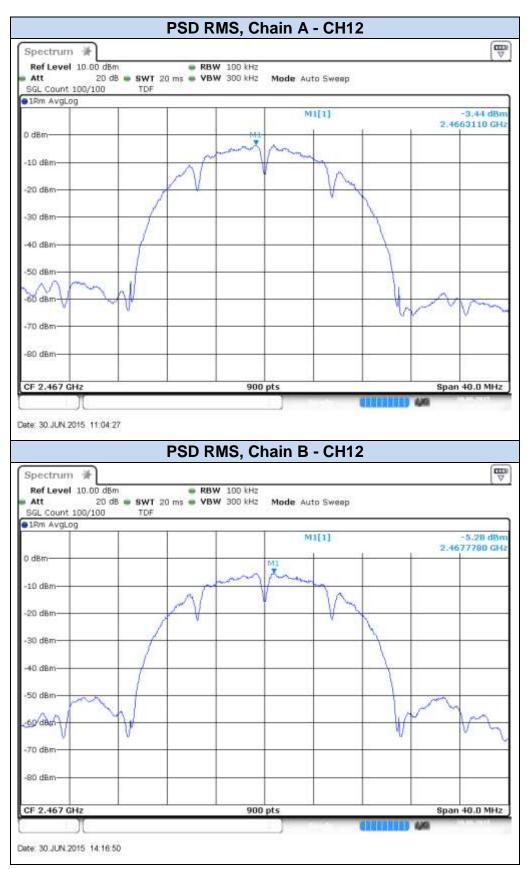














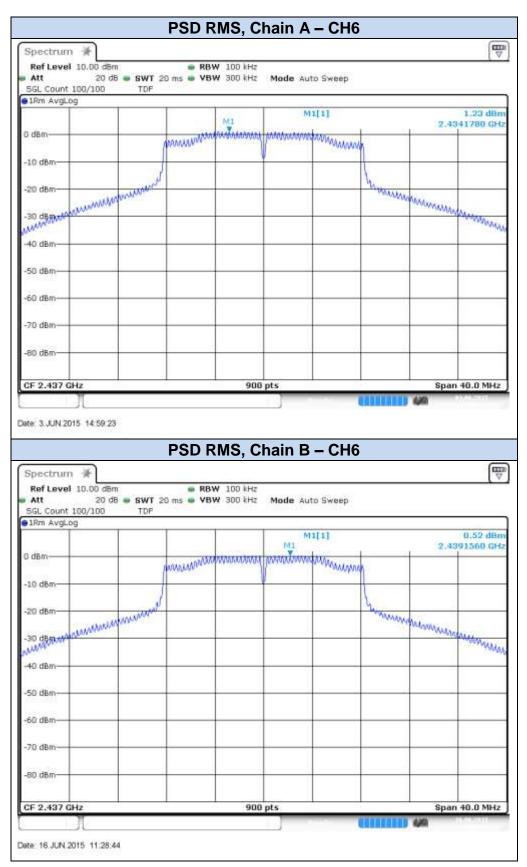




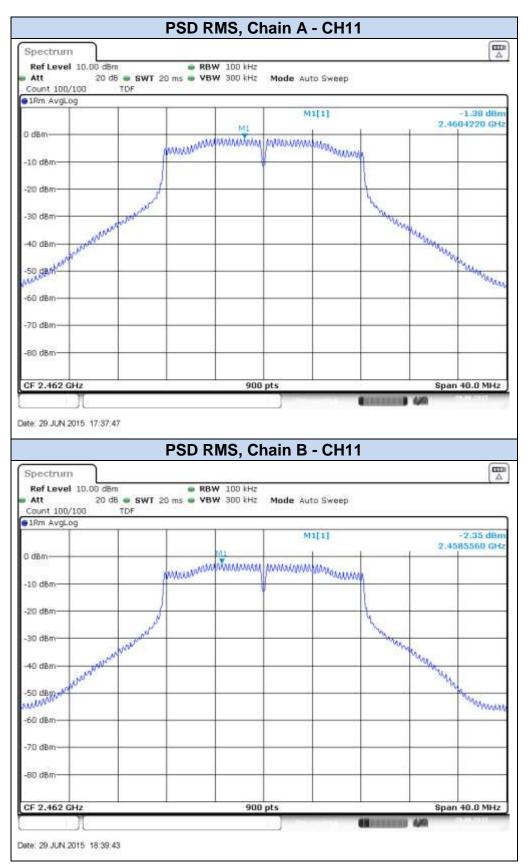
802.11g, 6Mbps



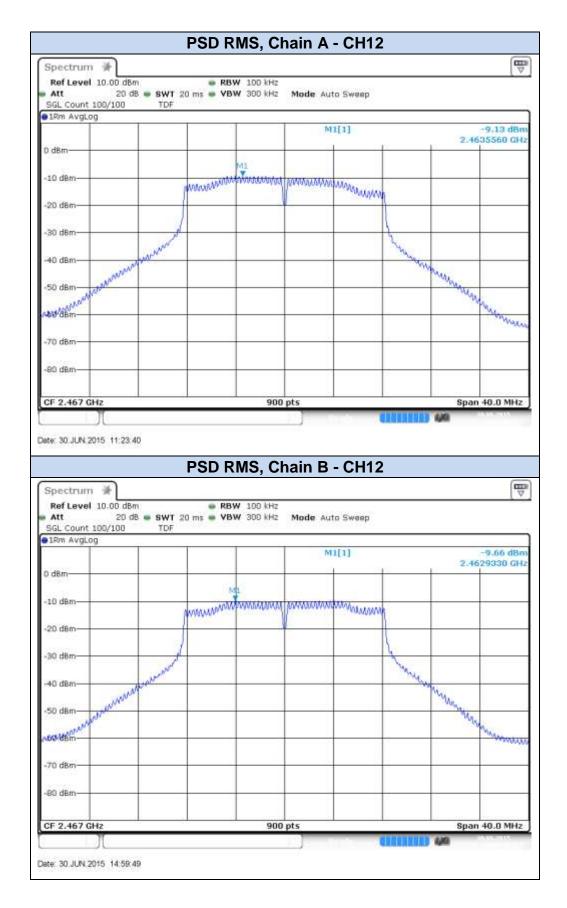










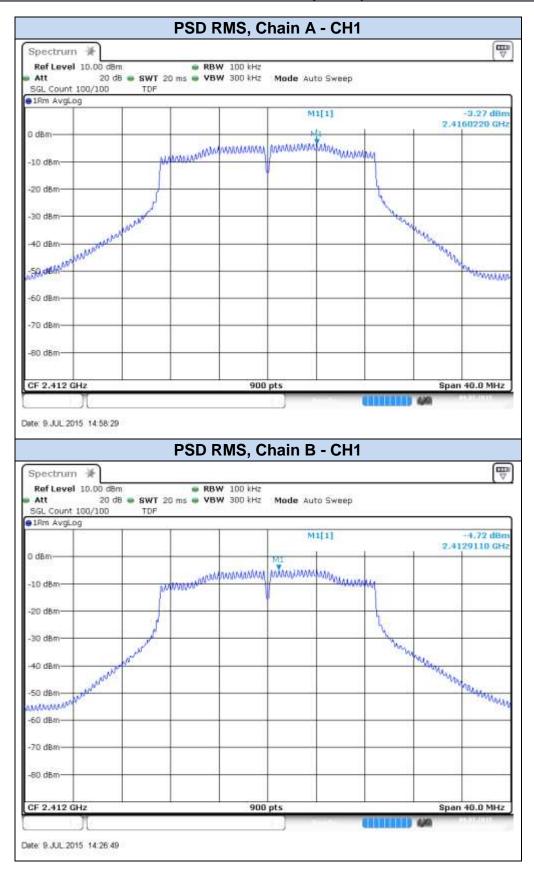




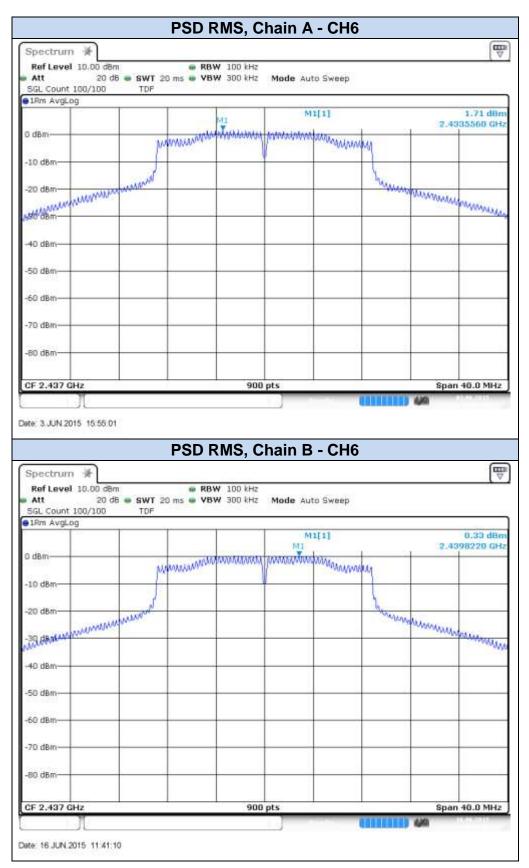




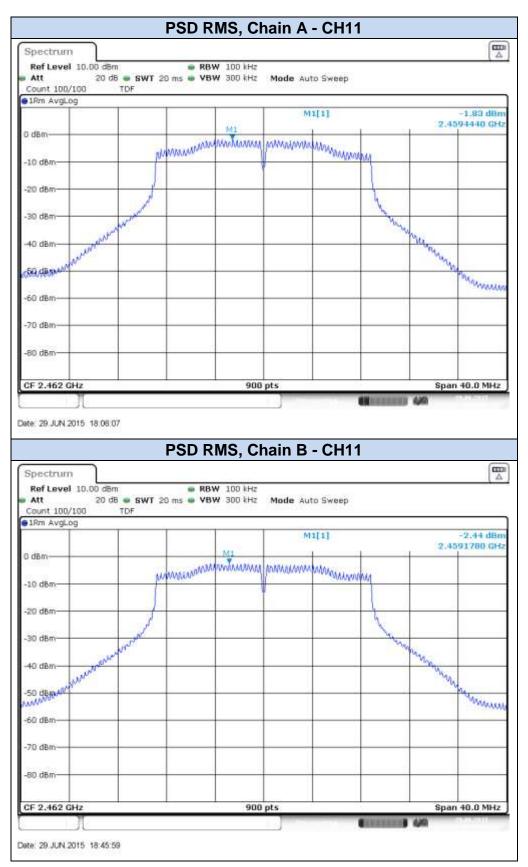
802.11n20, HT0 (SISO)



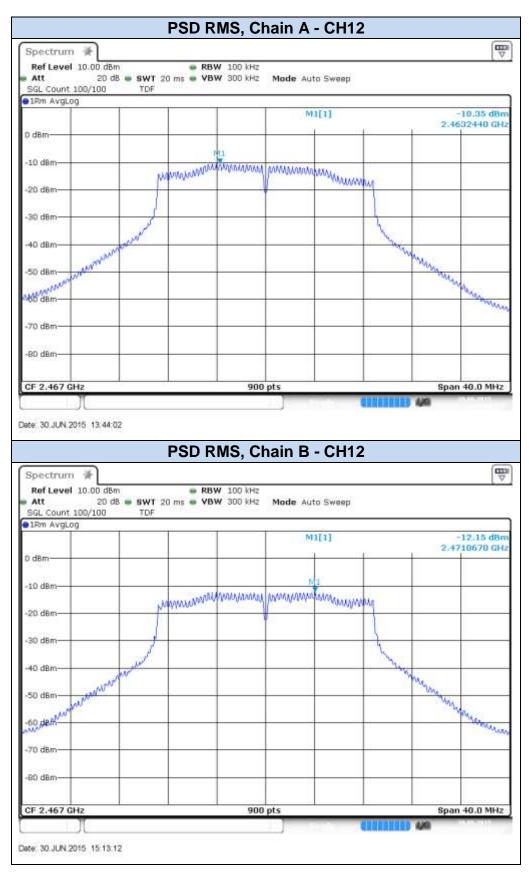




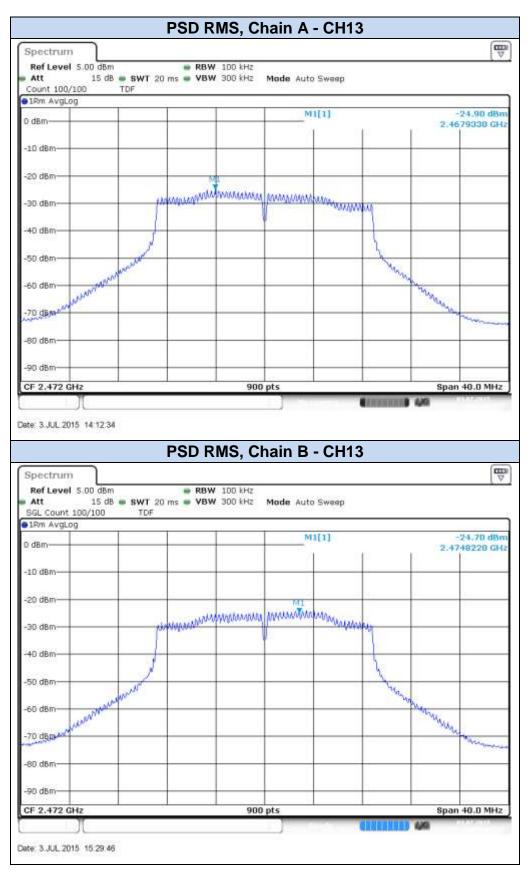






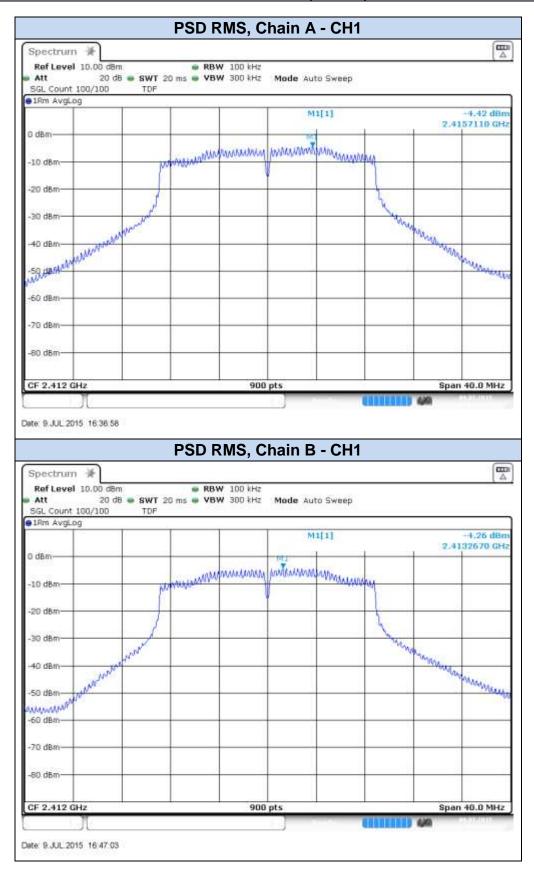




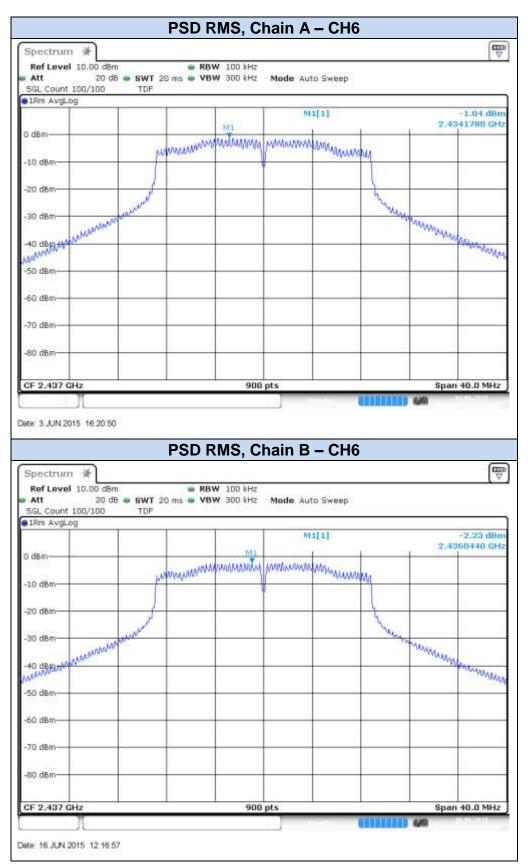




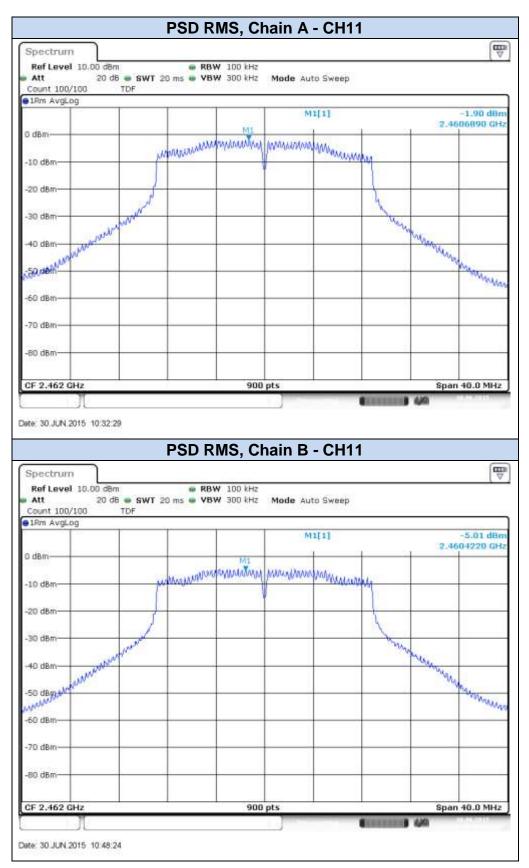
802.11n20, HT8 (MIMO)



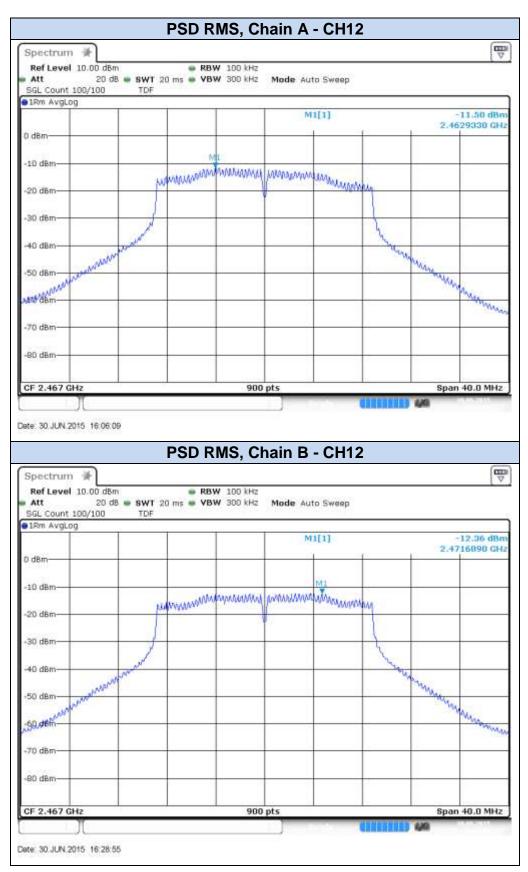




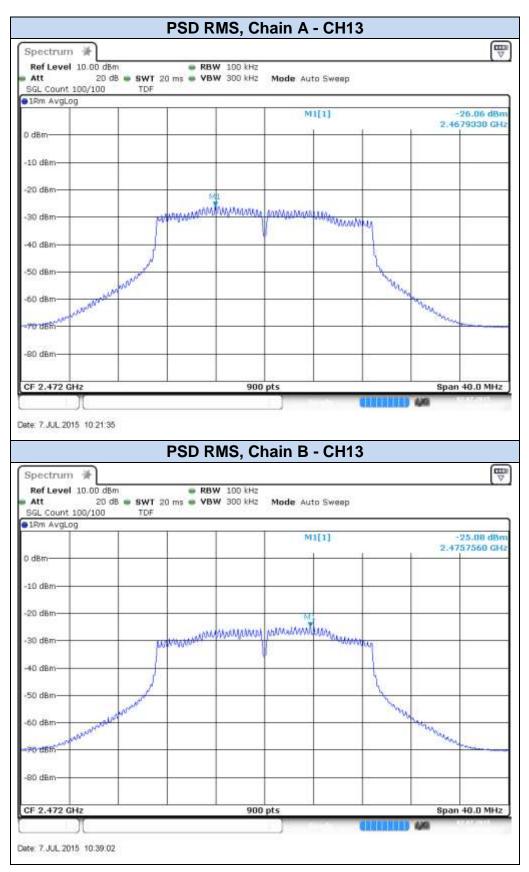






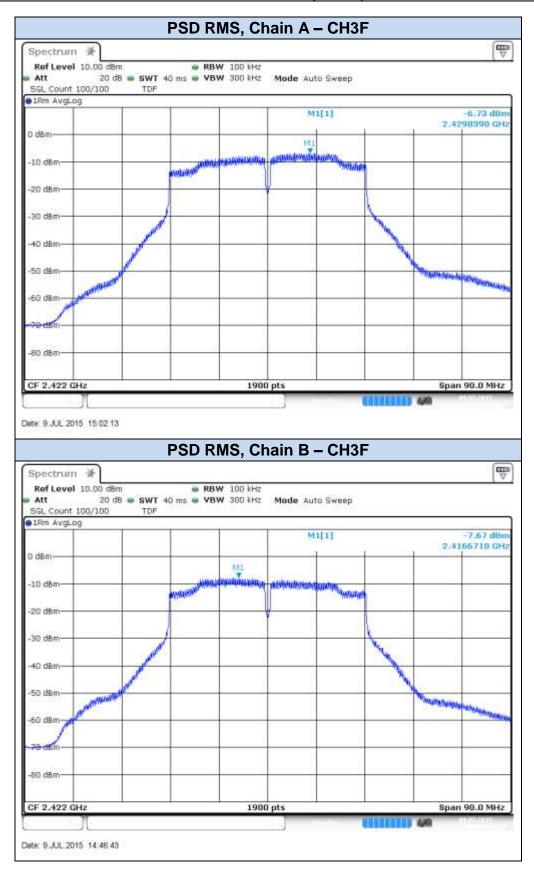




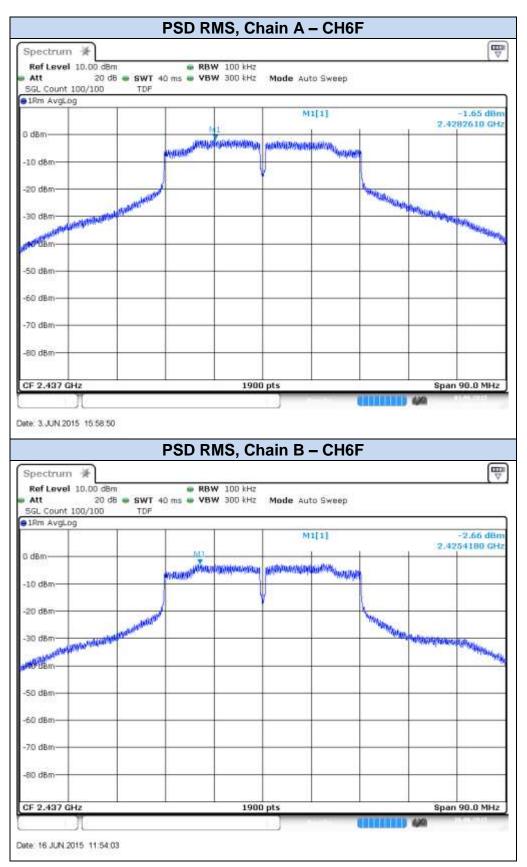




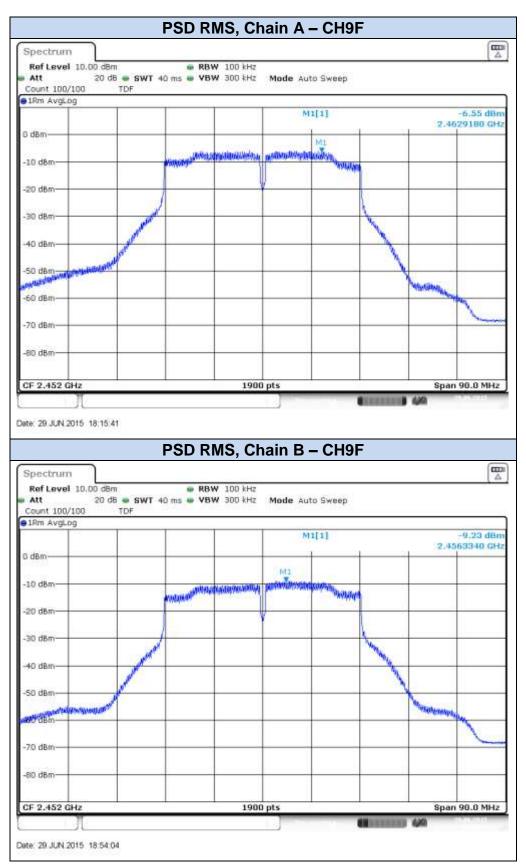
802.11n40, HT0 (SISO)



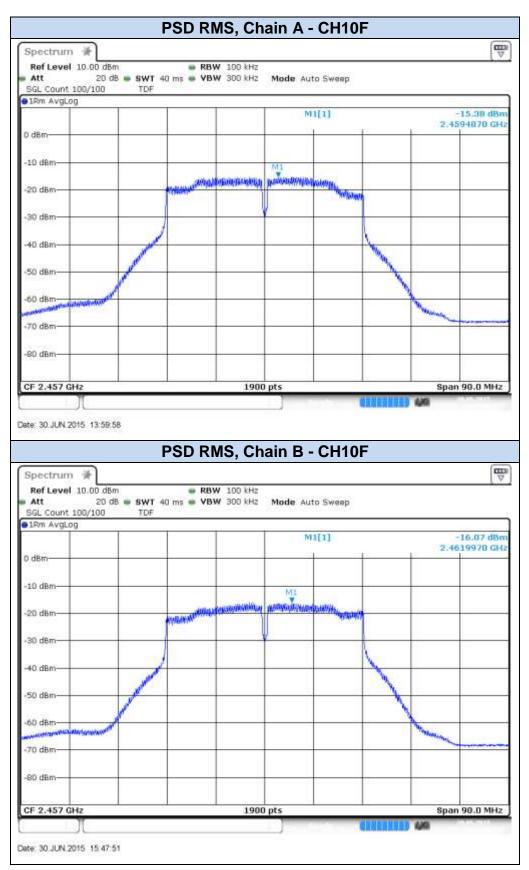




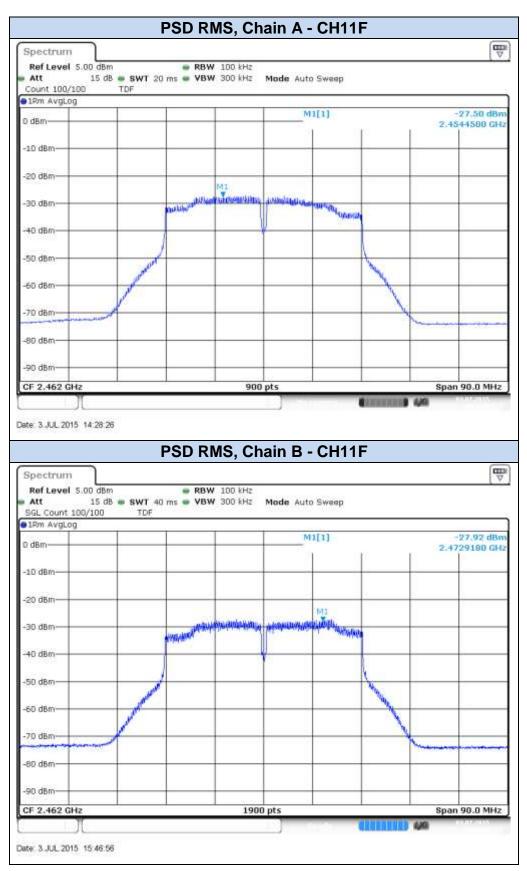






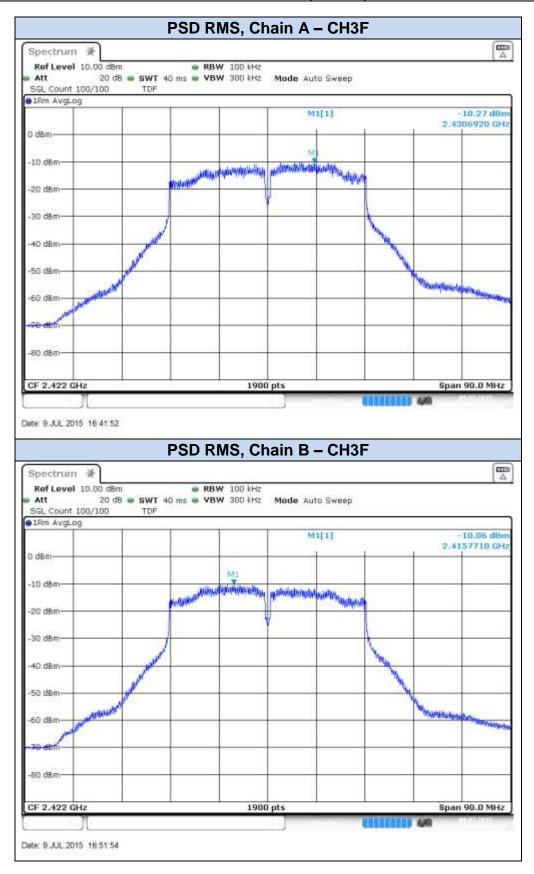




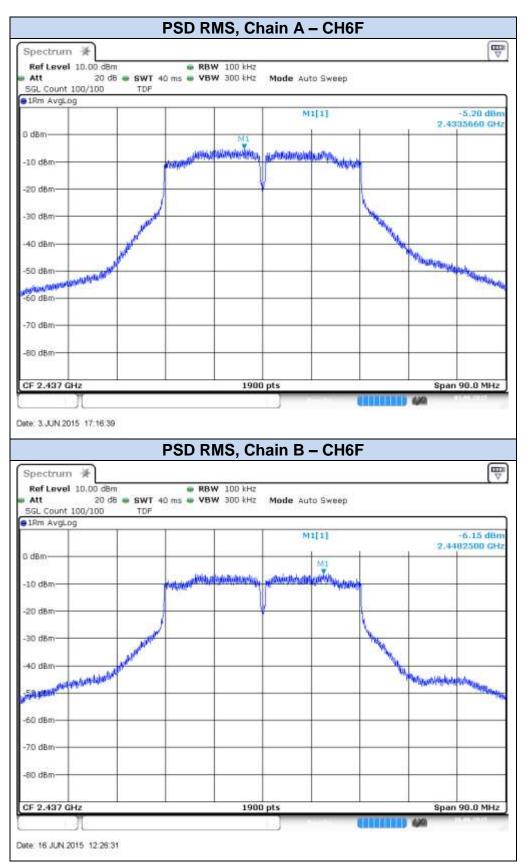




802.11n40. HT8 (MIMO)



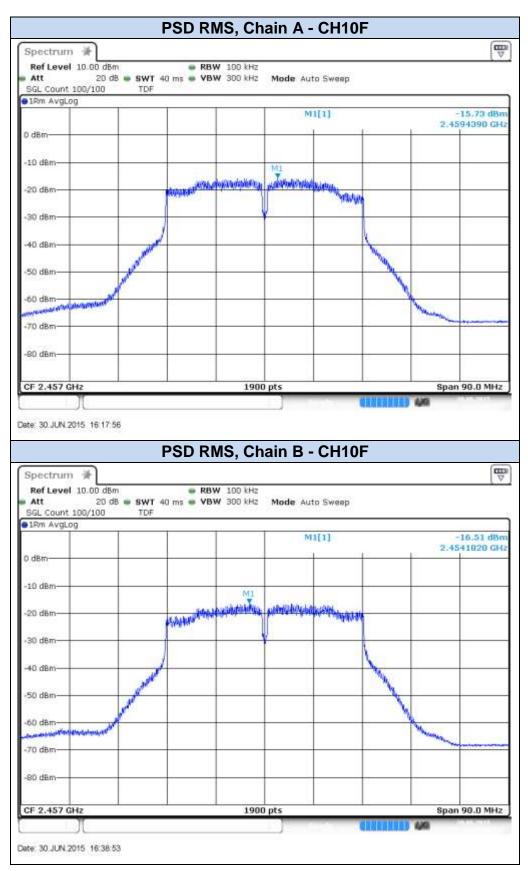




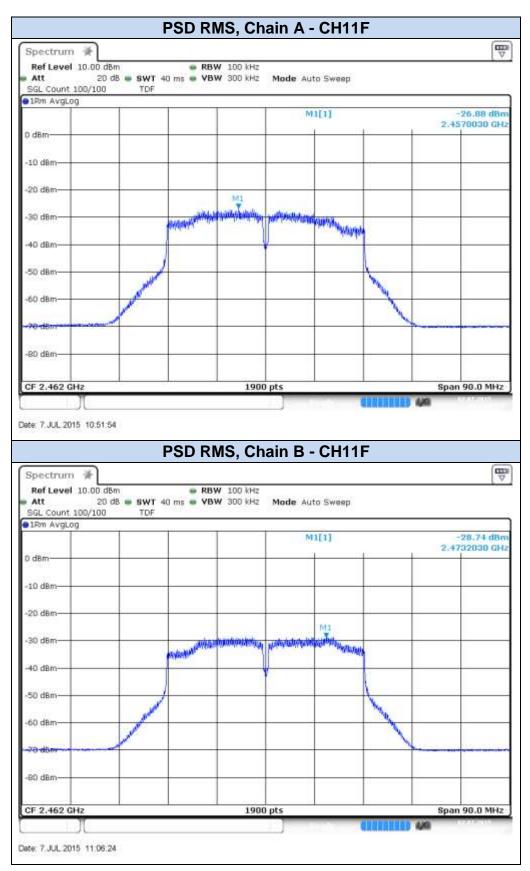


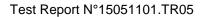














B.5 Radiated spurious emission

Standard references:

FCC part	RSS part	rt Limits												
			st also comply w		nds, as defined in d emission limits									
		Freq Range (MHz)	Field Stregth (µV/m)	Field Stregth (dBµV/m)	Meas. Distance (m)									
		0.009-0.490	2400/f(kHz)	(ασμν/π)	300									
		0.490-1.705	2400/f(kHz)	-	300									
		1.705-30.0	30	-	30									
		30-88	100	40	3									
		88-216	150	43.5	3									
	RSS-247	216-960	200	46	3									
15.247 (d)	Clause 5.5	960-25000	500	54	3									
		measurements e the frequency b MHz. Radiated e measurements e For average rad there is also a li	employing CISPF bands 9-90 kHz. emission limits in employing an ave liated emission r mit specified wh	R quasi-peak de 110-490 kHz a these three ban rage detector. neasurements a en measuring wi	e are based on tector except for and above 1000 ids are based on bove 1000 MHz. ith peak detector ted values in the									

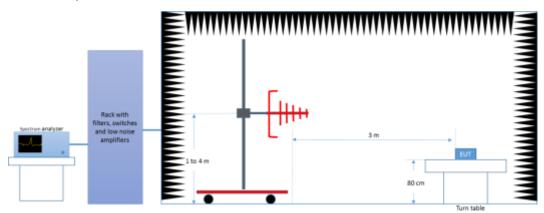
Test procedure:

The setups below were used to measure the radiated spurious emissions.

Depending of the frequency range and bands being tested, different antennas and filters were used. The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

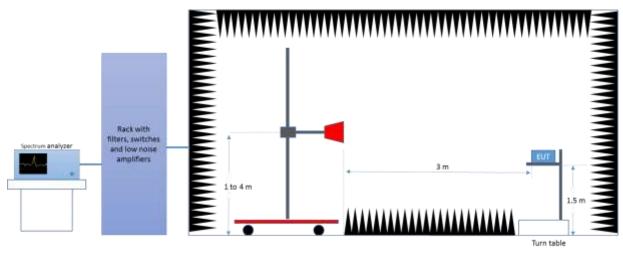
The radiated spurious emissions were measured on the worst case configuration selected from the chapter *B.2 Maximum Output Power and antenna gain* and using the lowest, middle and highest channels.

Radiated Setup < 1GHz

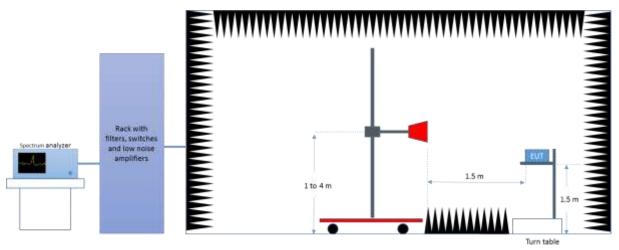




Radiated Setup 1GHz - 18GHz



Radiated Setup > 18GHz

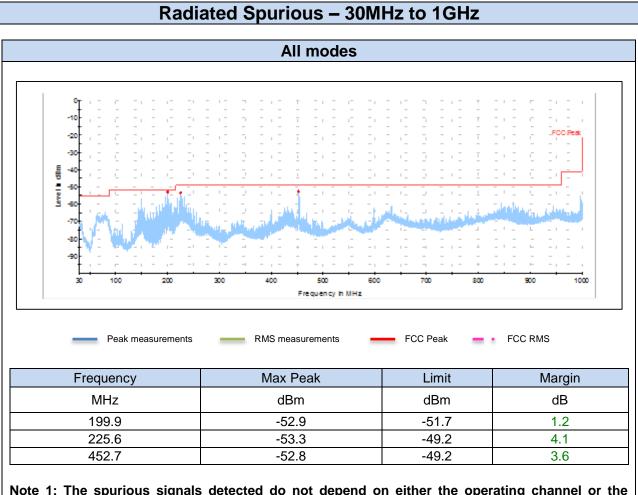


The following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dB μ V/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

	§15.209(a)		Converted v	alues
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
30-88	3	500	53.98	-41.2
88-216	3	200	46.02	-49.2
216-960	3	150	43.52	-51.7
960-25000	3	100	40.00	-55.2



Test Results:



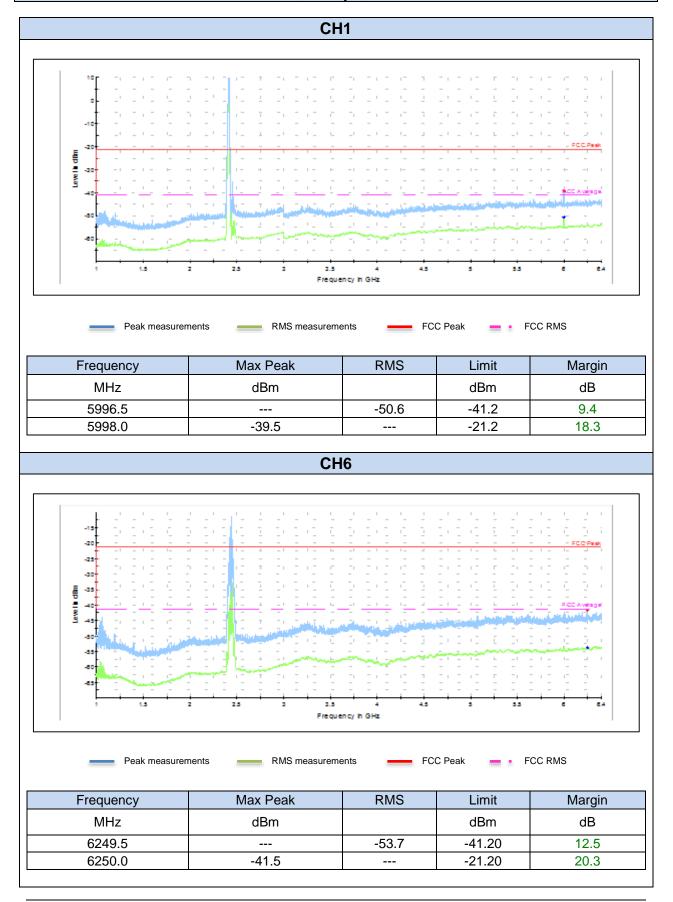
Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

Note 2: No spurious signals were found in all modulations and channels tested.

Note 3: This plot is valid for both SISO and MIMO modes.



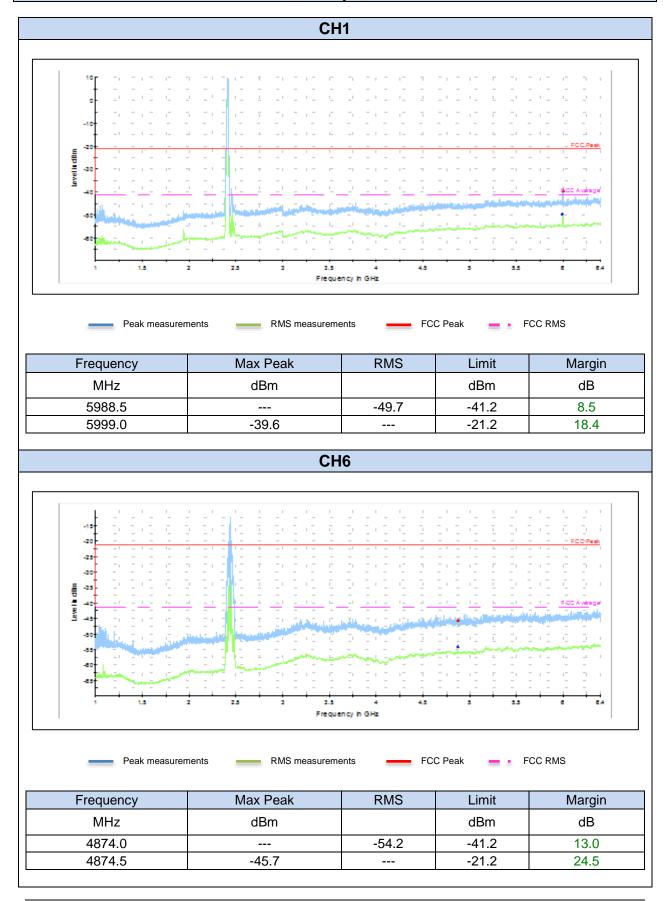
Radiated Spurious – 1 GHz to 6.4GHz 802.11b, 1Mbps, Chain A



														СН	11														
Level h dBm	20 10 10 20 30 50																											FCCF	t t
	Ļ	-	15	-	-	2	-	-	25	T		-	-	3.5	-				45	-	-	5	Г	5.5	-	-	6	-	6.4
	<u> </u>					_									encv	h G	Hz					_					_		
	_	P	Peak n	neas	sure	mer	nts		_	_	RM	IS n	neas	uren	nents	6			F	CC I	Peal	k	_		FC	C R	MS		
Frequency Max Peak											RI	ИS				Li	Limit				M		gin						
MHz						dBm													dBm				dB				3		
6395.0				1									-48.3					-41.2				7.1				1			
6398.0					-37.4												-21.2					16.2							



Radiated Spurious – 1 GHz to 6.4GHz 802.11b, 1Mbps, Chain B

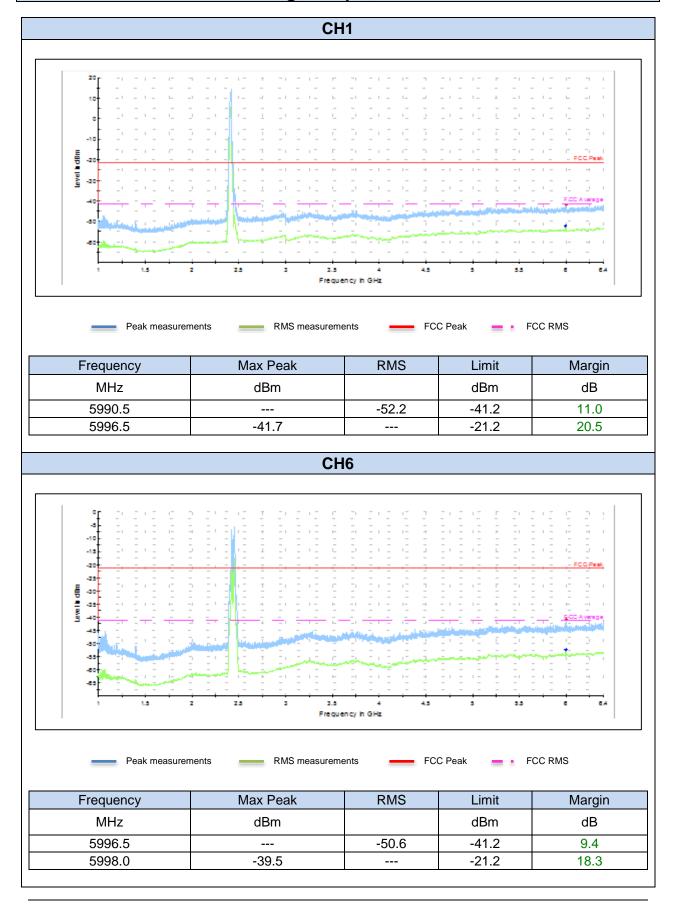


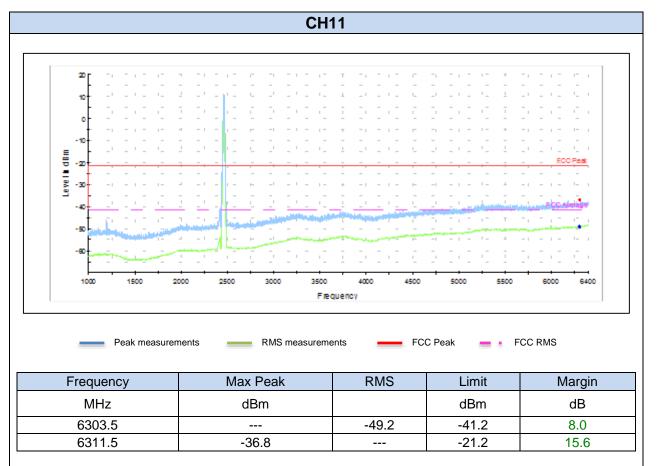
													(СН	11														
	20 10 -10		- 1 - 1 - 1 - 1 - 1		- - - - -				 	T - - + -	- 1 - 1 - 1 - 1		1 = 1 = 1 = 1 = 1 =				1 = = 1 = 1 = 1 =	17		- 1 - 1 - 1 - 1				- 1 - 1 - 1 - 1 - 1		 - - - - -			1 I
Level h dBm	-20																								-			FCQ	
1 1.5					2			25		3)		3.5 Frecu	encv	h Gł	4 12		45			5		55	;		6		6.4	
	_		Peak	mea	asure	eme	nts			_			neas	urem	ients			10	F	CC P	eał		-	•	FC	CR	MS	N 4 -	
F	Frequency						Max Peak									R٨	IS				Li					Ma	rgin		
	MHz					dBm														dBm								В	
	6388.0													-48.4					-41.2				7.2						
6390.5					-37.0					1						-21.2						15.8							





Radiated Spurious – 1 GHz to 6.4GHz 802.11g, 6Mbps, Chain A

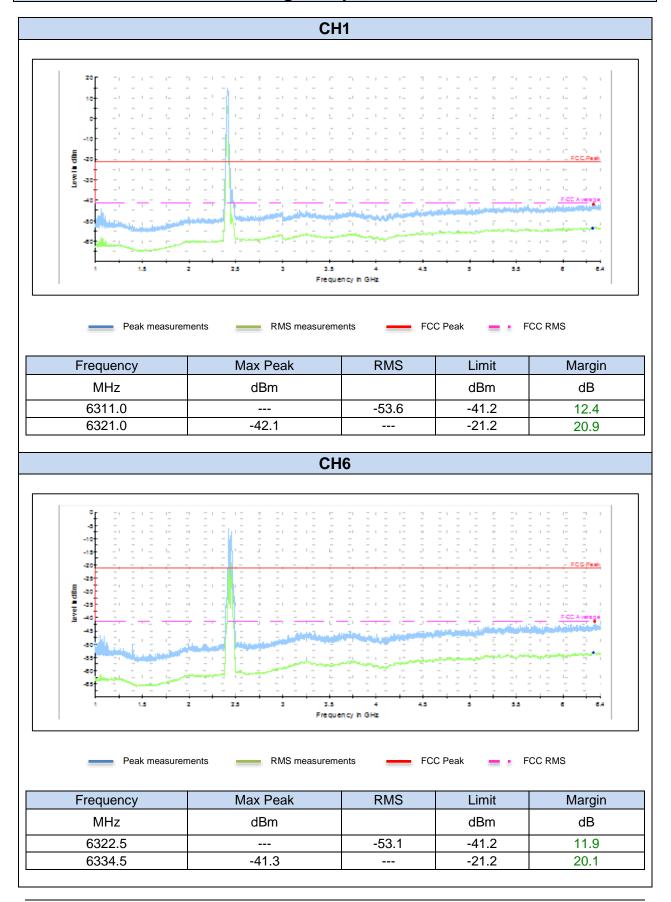








Radiated Spurious – 1 GHz to 6.4GHz 802.11g, 6Mbps, Chain B

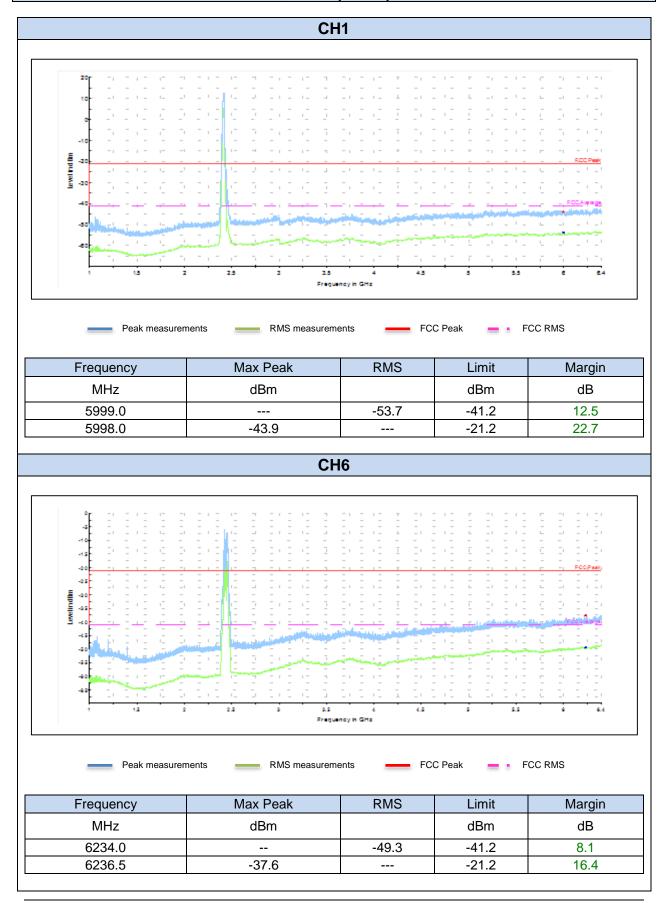




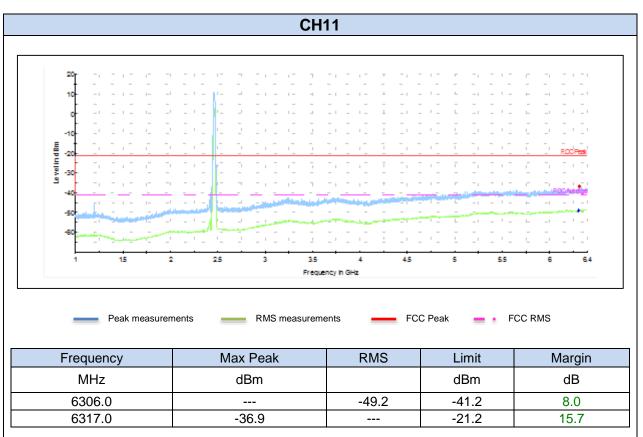
CH11 20 LevelindBm -50 15 15 z 2.5 3 4 45 5 5.5 6 6.4 Frequency in GHz RMS measurements FCC Peak FCC RMS Peak measurements Frequency Max Peak RMS Limit Margin MHz dBm dBm dB 7.9 6311.0 -----41.2 -49.1 6309.0 -37.8 -21.2 16.6 ---



Radiated Spurious – 1 GHz to 6.4GHz 802.11n20, HT0 (SISO), Chain A



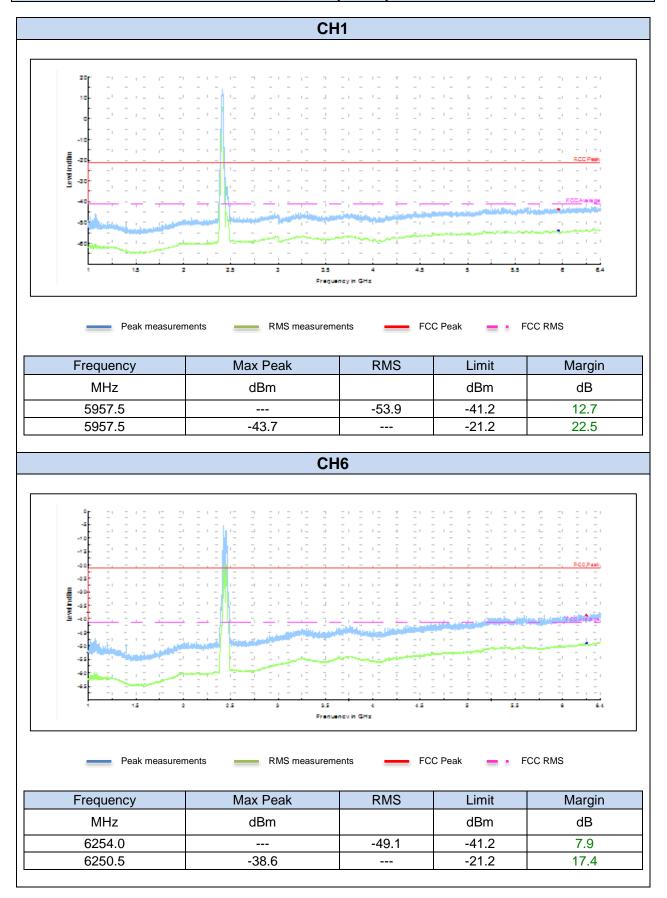
FO-014: Test Report

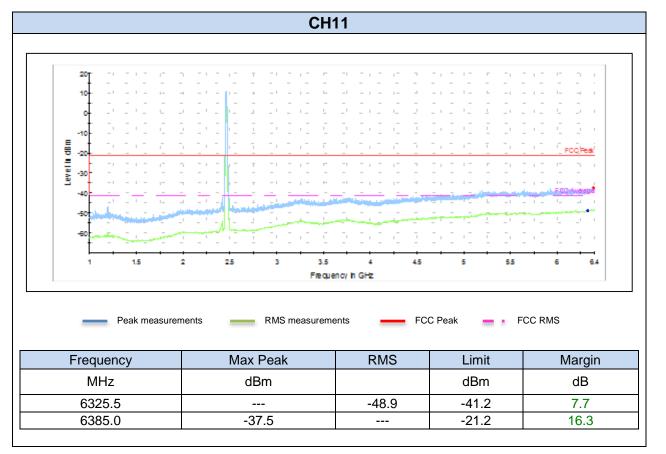






Radiated Spurious – 1 GHz to 6.4GHz 802.11n20, HT0 (SISO), Chain B

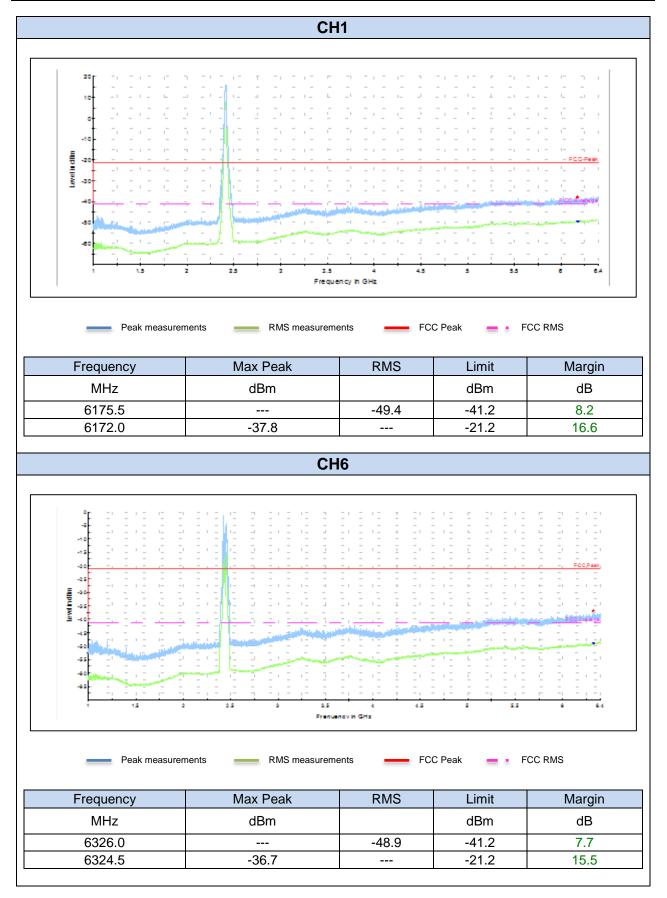




Rev. 00



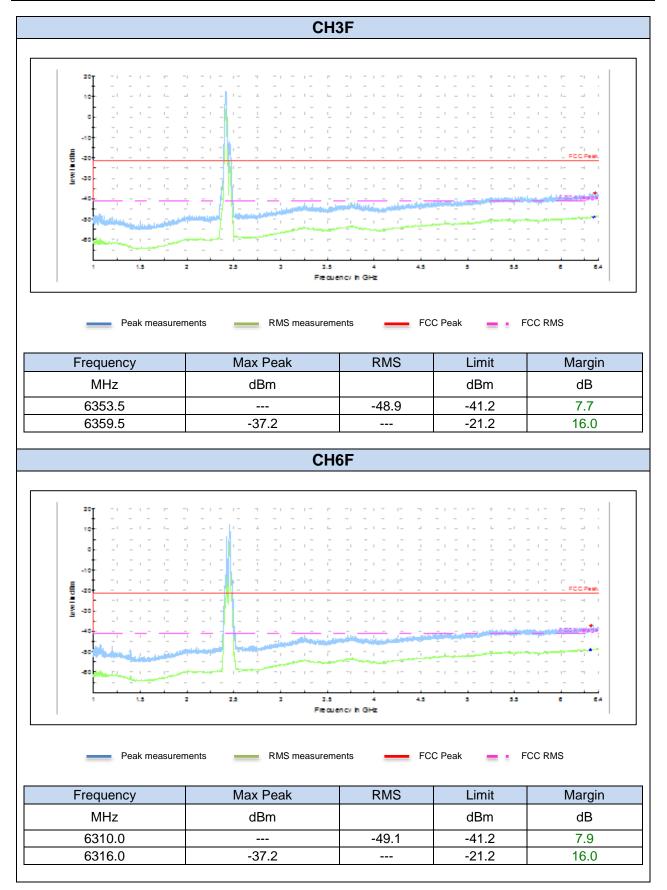
Radiated Spurious – 1 GHz to 6.4GHz 802.11n20, HT8 (MIMO), Chain A+B

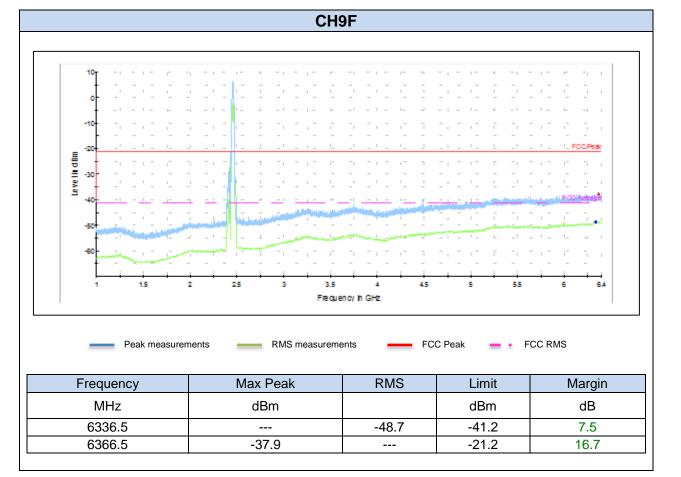


															CH	111	l															
Level adam	20 10 10 20 30 40																															
-	•		-	-	÷	5	-		1	<u>می</u> ما ۲	Ţ	-	-	-	-	-			-	-	-	-	-	-	-	-		-	-	-	-	
1 15				2			2	25		3			3.5 Frecu			4			45			5		5	5			6		6.4		
	_	F	Peak	k me	easu	rem	ents	s			_	RM	Sm	neas					_		F	CC F	Peal	k	_		F	-CC	RN	٨S		
Frequency						Max Peak									RMS						Limit					Ma				gin		
MHz					dBm														dBm					dB			3					
6383.5													-48.5					1	-41.2					7.3				3				
6392.0					-37.3													-21.2					16.1									



Radiated Spurious – 1 GHz to 6.4GHz 802.11n40, HT0 (SISO), Chain A

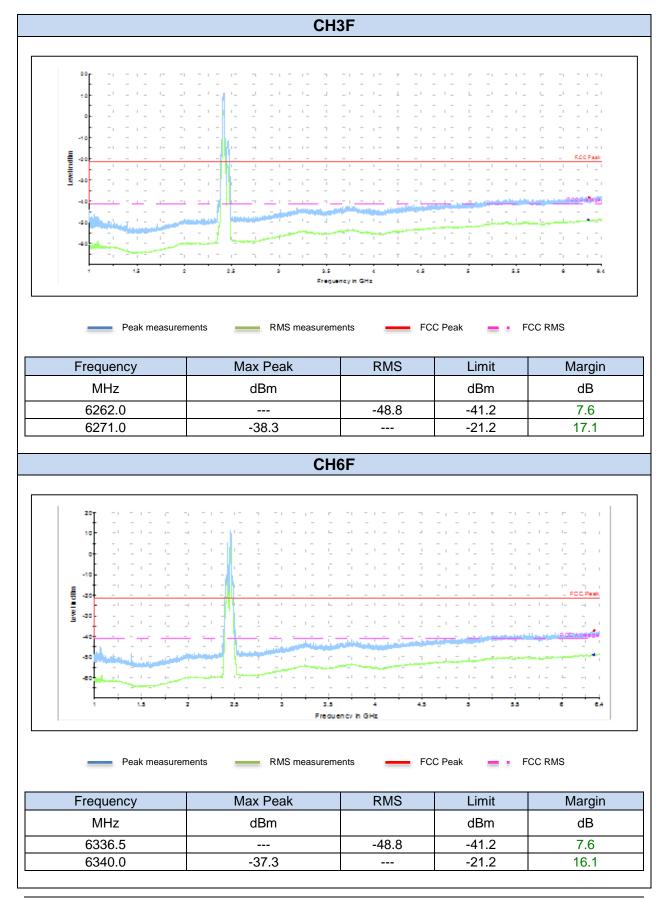


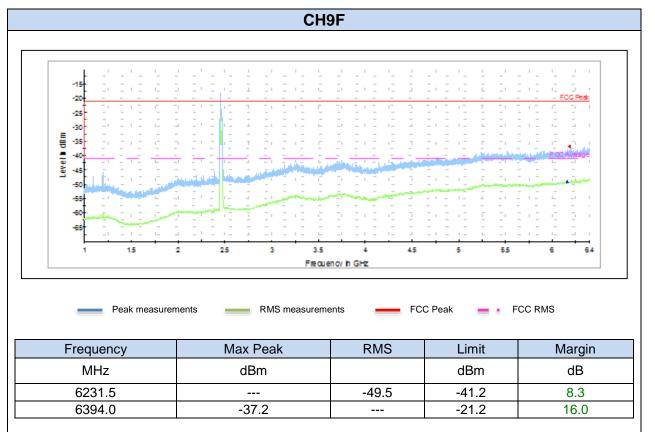






Radiated Spurious – 1 GHz to 6.4GHz 802.11n40, HT0 (SISO), Chain B

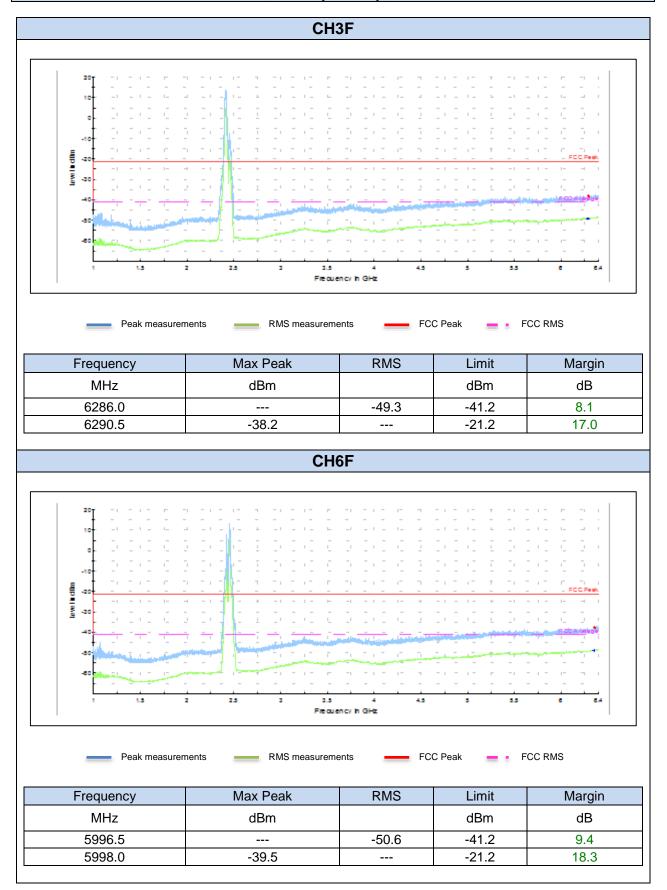


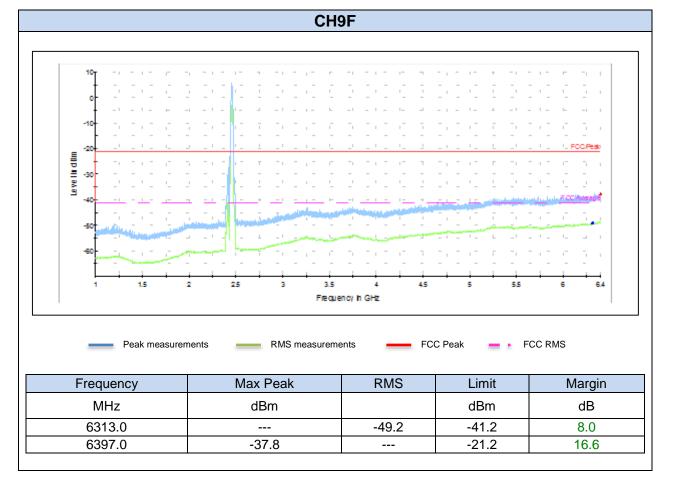




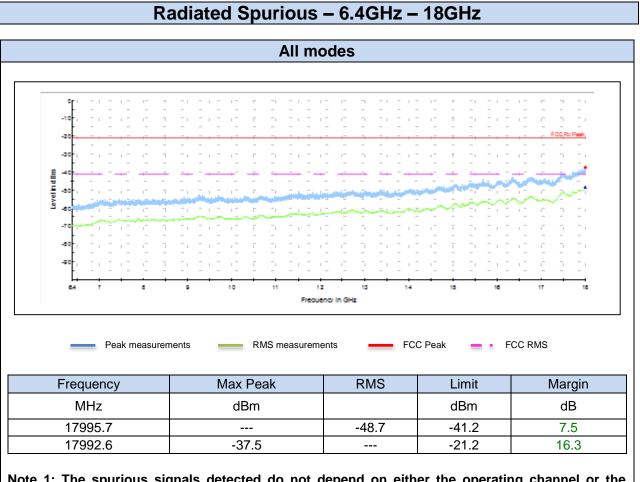


Radiated Spurious – 1 GHz to 6.4GHz 802.11n40, HT8 (MIMO), Chain A+B









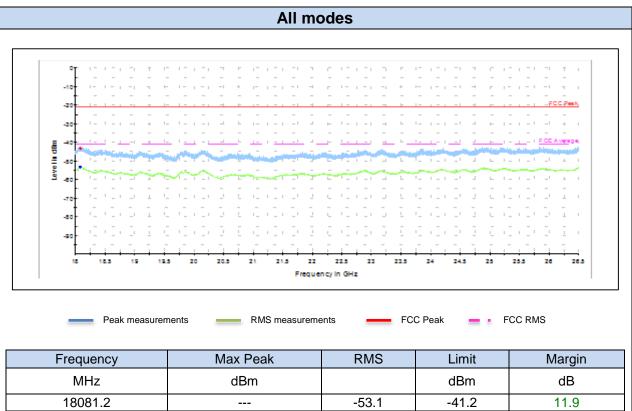
Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

Note 2: No spurious signals were found in all modulations and channels tested.

Note 3: This plot is valid for both SISO and MIMO modes.



Radiated Spurious – 18GHz to 26.5GHz



Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

-21.2

22.1

Note 2: No spurious signals were found in all modulations and channels tested.

-43.3

Note 3: This plot is valid for both SISO and MIMO modes.

18084.0

FO-014: Test Report



Annex C. Test Results BLE

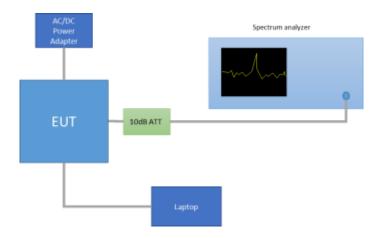
C.1 6dB & 99% Bandwidth

Test limits:

FCC part	RSS part	Limits
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure:

The setup below was used to measure the 6dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



Results tables:

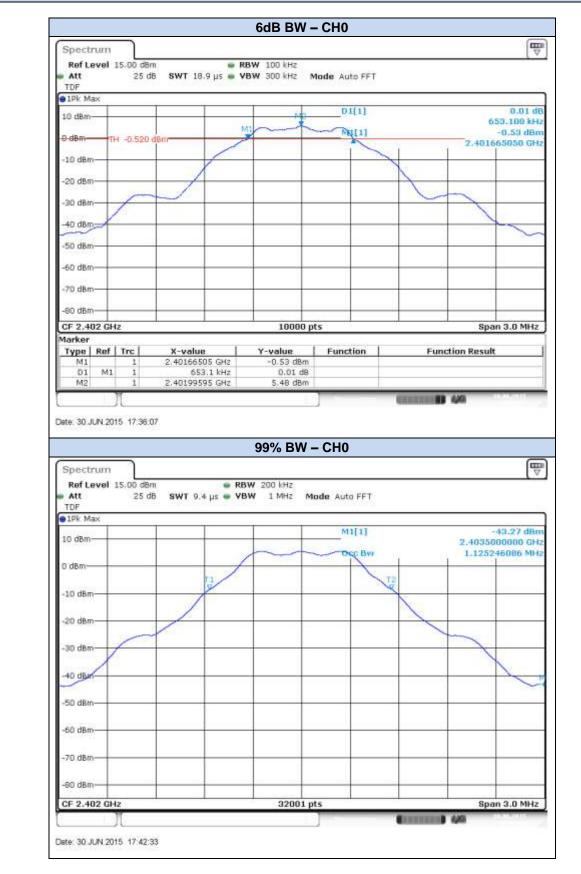
Mode	Channel	Frequency [MHz]	6dB BW [MHz]	99% BW [MHz]
	0	2402	0.653	1.125
BLE	19	2440	0.662	1.120
	39	2480	0.669	1.125

Test Report N°15051101.TR05



Results screenshot:

BLE













C.2 Maximum Output Power and antenna gain

Test limits:

FCC part	RSS part	Limits
15.247 (b) (3)	RSS-247 Clause 5.4 (4)	 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

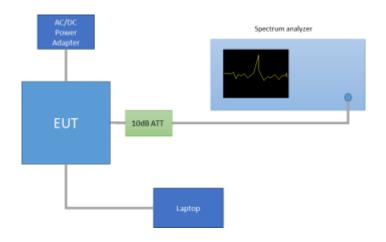
Test procedure:

The Maximum peak conducted output power was measured using the $RBW \ge DTS$ bandwidth method defined in paragraph 9.1.1 of FCC KDB 558074 D01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

The Maximum conducted average output power was measured using the channel integration method according to Method AVGSA-2, defined in paragraph 9.2.2.4 of FCC KDB 558074 D01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power. The declared maximum antenna gain is 3dBi.

The setup below was used to measure the maximum conducted output power. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.





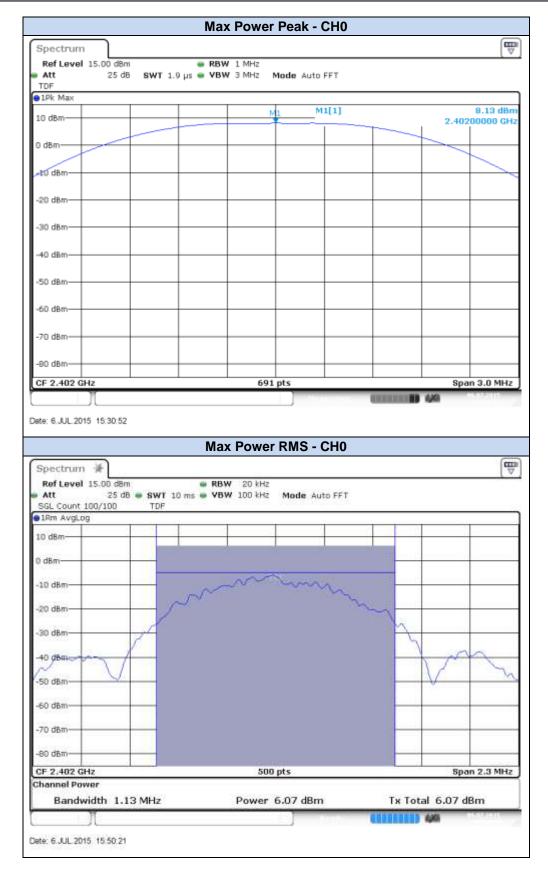
Results tables:

					Power [dE	ßm]	
Mode	Meas. Duty Cycle [%]	СН	Frequency [MHz]	Measured Conducted RMS	Duty cycle Compensated	EIRP	Measured Conducted PEAK
		0	2402	6.07	8.06	11.06	8.13
BLE	63.2	19	2440	6.29	8.28	11.28	8.30
		39	2480	4.48	6.47	9.47	6.48



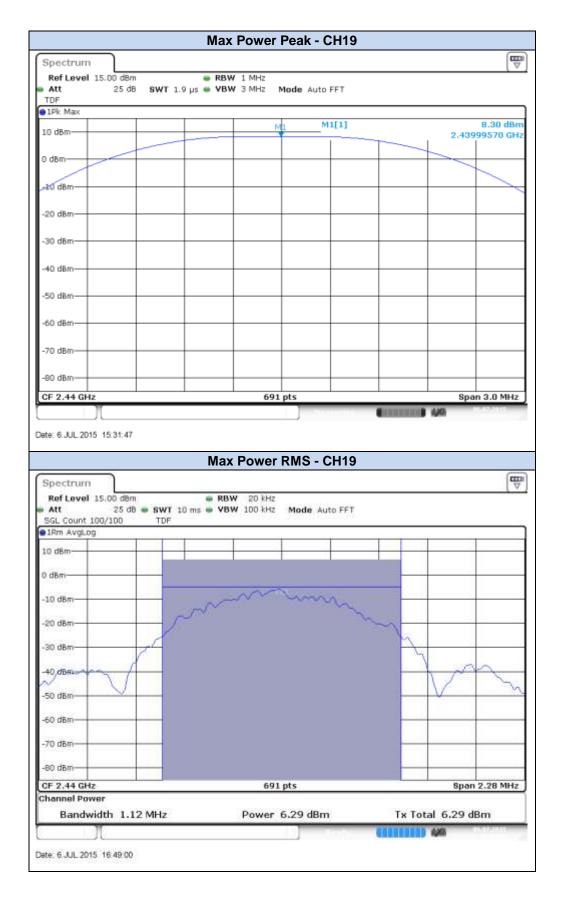
Results screenshot:

BLE



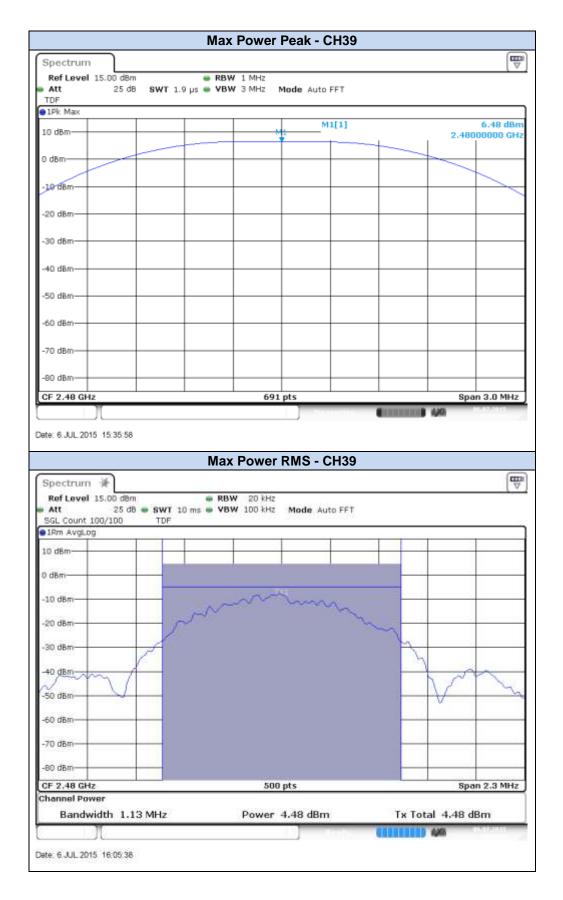












C.3 **Out-of-band emissions (conducted)**

Test limits:

FCC part	RSS part		Lin	nits				
15.247 (d)	RSS-247 Clause 5.5	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, provided the transmitter demonstrates compliance with the peak conducted power limits.						
			st also comply w		ds, as defined in d emission limits Meas. Distance			
		(MHz)	(μV/m)	(dBµV/m)	(m)			
		0.009-0.490	2400/f(kHz)	-	300			
		0.490-1.705	24000/f(kHz)	-	300			
		1.705-30.0	30	-	30			
		30-88	100	40	3			
	RSS-247	88-216	150	43.5	3			
15.209	Clause 6.2.2	216-960	200	46	3			
15.209		960-25000	500	54	3			
	(2)	measurements e the frequency b MHz. Radiated e measurements e For average rad there is also a li	employing CISPF ands 9-90 kHz, emission limits in employing an ave lated emission n mit specified who	R quasi-peak de 110-490 kHz a these three ban rage detector. neasurements a en measuring wi	e are based on tector except for and above 1000 ids are based on bove 1000 MHz, ith peak detector ited values in the			

Test procedure:

The PSD reference values to determine the -20dB compliance are taken from C.4 Power Spectral Density.

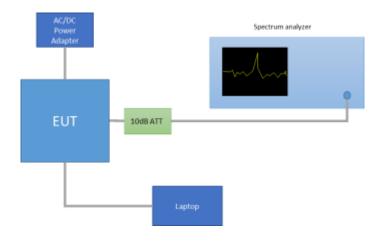
For Band Edge measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBµV/m, according to FCC 47 CFR part 15 - Subpart C - §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

	§15.209(a)		Converted values		
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)	
960-25000	3	100	40.00	-55.2	

In case of Band Edge measurements falling in restricted bands, the declared Antenna Gain is also compensated in the graph. The declared maximum antenna gain is 3dBi.



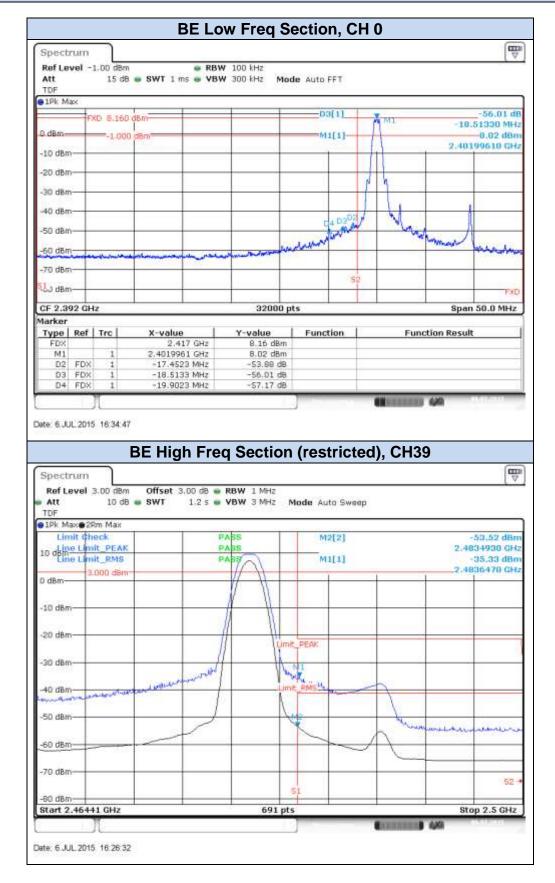
The setup below was used to measure the out-of-band emissions. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.





Band Edge results Screenshot:

BLE





Spurious results Screenshot:

BLE, CH0

Spectrum 🕷					
Ref Level 0.00 d8m	Mo	de Auto Sweep			
1 Max	1 1		D1[1]		-56.53 d
10 dBm FXD 8.16	0 dBm		ortit		2.4788150 GH
0.00	0 dBm		M1[1]		-67,61 dBr
-10 dBm				1	30.0000 MH
-20 dBm			()		
			Ĩ		
-30 dBm					
-40 dBm-	01				
-50 dBm	4			02	
-60 d8m		La	and a subscription of the second second	The second s	
-70 dBm			Construction of the second		
FXD -su aBm			1		
-BU DBm Start 30.0 MHz		90002	nte		Stop 9.0 GHz
Spurious Emissions	S	90002	pes		3(0p 9.0 Griz
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
30.000 MHz	3.000 GHz	100.000 kHz	2.40199 GHz	8,86 dBm	-200.00 d8
3.000 GHz 6.000 GHz	6.000 GHz 9.000 GHz	100.000 kHz 100.000 kHz	5.90415 GHz 7.20601 GHz	-55.18 dBm -51.06 dBm	-200.00 dB
Marker	and the second second	A CONTRACTOR OF THE	STRUCTL WILL	Station Manual	
Type Ref Trc	X-value	Y-value	Function	Function R	esult
FDX	0.0				
M1 1 D1 FDX 1	30.0 M 2.478815 G	and a few second s			
D2 FDX 1	7.20671 G				
ate: 6.JUL 2015 17:51:	56	ond Spur, 90	GHz – 18GF	dining 44	
Spectrum 🖌	Co	-	GHz – 18GF	łz	(Q
Spectrum 🖌	Co	ond Spur, 90	GHz – 18GF	łz	(E
Spectrum 🖗 Ref Level 0.00 dBm	Co	-	GHz – 18GF	łz	-60.85 d
Spectrum 🖗 Ref Level 0.00 dBm	Сс ма	-	D1[1]		-60.85 d 9.6070500 GH
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16	Сс ма	-	6.02		-60.85 d 9.6070500 GH -64.22 dBr
Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Ma× 10 dBm FxD 8.16 0-dBm 0.00 -10 dBm -20 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Ma× 10 dBm FxD 8.16 0-dBm 0.00 -10 dBm -20 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0,00 dBm 1 Ma× 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -10 dB	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm	Сс • Мо	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm -20 dBm -20 dBm -30 dBm -50 d	Сс • Мо	de Auto Sweep	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm 10 dBm 0.00 -10 dBm -20 dBm	Сс 1 Мо 0 dBm 0 dBm	-	D1[1]		-60.85 d 9.6070500 GH -64.22 dBr
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm 10 dBm 0.00 -10 dBm -20 dBm	Сс 1 Мо 0 dBm 0 dBm	de Auto Sweep	D1[1] M1[1]		-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH
Spectrum Imax Ref Level 0.00 dBm 10 dBm FXD 8.16 0 dBm 0.00 -10 dBm 0.00 -20 dBm 0.00 -30 dBm	CC	de Auto Sweep	D1[1] M1[1] pts Frequency 9.60705 GHz	Power Abs -52.69 dBm	
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm 10 dBm 20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Cc	de Auto Sweep 90002 RBW 100.000 kHz 100.000 kHz	D1[1] M1[1] pts Frequency 9.60705 GHz 14.47207 GHz	Power Abs - 52.69 dBm - 59.00 dBm	-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.000000 GH 2.00000 GH 2.00.00 dB -200.00 dB
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	CC	de Auto Sweep	D1[1] M1[1] pts Frequency 9.60705 GHz	Power Abs -52.69 dBm	
Spectrum Imax Ref Level 0.00 dBm 1 Max Imax 10 dBm FXD -10 dBm 0.00 -10 dBm 0.00 -20 dBm 0.00 -30 dBm - -40 dBm - -50 dBm - -50 dBm - -50 dBm - -70 dBm - -50 dBm - -50 dBm - -70 dBm - -80 uBm - -9.00 GHz - 9.000 GHz - 15.000 GHz - Marker -	Renge Up I 12.000 GHz 18.000 GHz 18.000 GHz 18.000 GHz	de Auto Sweep 90002 RBW 100.000 kHz 100.000 kHz	D1[1] M1[1] pts Frequency 9.60705 GHz 14.47207 GHz 16.71409 GHz	Power Abs -52.69 dBm -58.00 dBm -55.81 dBm	-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.000000 GH 200.00 dB -200.00 dB -200.00 dB
Spectrum Ref Level 0.00 dBm 1 Max 10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Сс 0 dBm 0 dB	de Auto Sweep 90002 RBW 100.000 kHz 100.000 kHz 100.	D1[1] M1[1] pts Frequency 9.60705 GHz 14.47207 GHz 16.71409 GHz Function	Power Abs - 52.69 dBm - 59.00 dBm	-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.000000 GH 200.00 dB -200.00 dB -200.00 dB
Spectrum Imax Ref Level 0.00 dBm 1 Max 10 dBm 10 dBm FXD -10 dBm 0.00 -10 dBm 0.00 -10 dBm 0.00 -20 dBm 0.00 -30 dBm - -50 dBm - -50 dBm - -50 dBm - -70 dBm - -70 dBm - -70 dBm - -70 dBm - -9.00 GHz - Spurious Emissions Range Low 9.000 GHz 12.000 GHz 12.000 GHz 15.000 GHz Marker - FDX M1	Mo 0 dBm 0	de Auto Sweep 90002 RBW 100.000 kHz 100.000 kHz 100.	D1[1] M1[1] pts Frequency 9.60705 GHz 14.47207 GHz 16.71409 GHz 16.71409 GHz	Power Abs -52.69 dBm -58.00 dBm -55.81 dBm	-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.000000 GH 200.00 dB -200.00 dB -200.00 dB
Spectrum Imax Ref Level 0.00 1 Max 10 10 dBm FXD 10 dBm 0.00 -10 dBm 0.00 -20 dBm 0.00 -30 dBm - -50 dBm - -70 dBm - -80 uBm - Start 9.0 GHz - 9.000 GHz 12.000 GHz 12.000 GHz 15.000 GHz Type Ref Trc FDX -	Сс 0 dBm 0 dB	de Auto Sweep 90002 RBW 100.000 kHz 100.000 kHz 100.	D1[1] M1[1] pts Frequency 9.60705 GHz 14.47207 GHz 16.71409 GHz 16.71409 GHz	Power Abs -52.69 dBm -58.00 dBm -55.81 dBm	-60.85 d 9.6070500 GH -64.22 dBr 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.0000000 GH 9.000000 GH 200.00 dB -200.00 dB -200.00 dB



Spech	rum	*											
Ref Le	vel 0	.00 d8m		Mode	Auto Sweep								
01 Max	3. 12		12 A.		- 19 - C. 19			0.00					
10 dBm	_					_	D	(1)					-62.43 dE
	F.	KD 8.160	1					1[1]					937900 GH: -61.67 dBn
D dBm	-	-0.000	dem					1111					000000 GH:
-10 dBm	-		1 1			_			1		-	4.4.1.4	
-20 dBm	-		-						_		_		
-30 dBm													
-40 dBm	-		+ +		-	_			+		+		-
-50 dBm				_		_							-
				in a		1		a di	72	and a second second second	1		
								-	- 1-	-			
-70 dBm	-				22				-		-		_
-FXD					1								
Start 1		Hz	1		9000	2 nt			-			Sto	p 25.0 GHz
Spuriou						- per			-		_		P 2010 GIL
and the second se	ge Lo		Range Up	4	RBW	1	reque	ncy	1	Power A	bs		∆Limit
1	8.000	GHz	21.000 GH	2	100.000 kHz		20.32	035 GHz			2 dBm		-200.00 dB
	1.000		24.000 GH		100.000 kHz			379 GHz	_		7 dBm		-200.00 dB
	4,000	GHZ	25.000 GH	2	100.000 kHz	_	24.69	973 GHz	_	+55.0	9 dBm		-200,00 dB
Marker	1									05777		27171121	2
Type FDX	Ref	Trc	X-value	0.0 Hz	Y-value 8,16 dB	-	Fund	tion	_	Fur	ction	Resu	n .
MI	_	1		0 GHz	-61.67 dB								
D1	FDX	1	22.7937		-62,43.0								
-	-	11				1	-			VALUE AND IN	100	_	OKO12010
-	_												



BLE, CH19

Spect		.00 dBr	n:	Mo	de Au	to Sweep					
1 Max			1.27	12				200			
t0 dBm	-	-	30 dBm				D	1[1]			-57.04 di 3200060 GH
	F.		1				M	1[1]			-69.85 dBn
0 dBm		-0.00	ID dem				-	1976			30.0000 MH
-10 dBm			-			1 1	Ĩ		<u> </u>	1	-
-20 dBm	-		1				-			-	-
-30 dBm			_								
-40 dBm											
										01	
-50 dBm								-	-	1	
-60 dBm	Sec. 1	Weinstein !!		- and -	ed day	and the state of the			-		and an extension (re-
70 CIBI	t T	-					100 Store	<u></u>		A Designation	and the second second second
EN UBR			_								-
Start 3	0.0 N		1	1		90002	2 pts		5 <u>-</u> 3		Stop 9.0 GHz
And the second second		issions									
	ge Lo 0.000		Range 3.0	Up DD GHz		0.000 kHz	Freque 2.43	1971 GHz	Power Al 8.53	bs dBm	△Limit -200.00 d8
	3,000	GHz	6.0	00 GHz	10	0.000 kHz	5,86	355 GHz	-55.07	dBm	-200.00 dB
	6.000	GHz	9.D	00 GHz	10	0.000 kHz	7.32	001 GHz	-48.66	dBm	-200.00 d8
tarker Type	Perf	Terel		value	- 1	Y-value	Fund	tion 1		ction Re	e ult
FDX	KOI.	ILC.	X-	0.0	Hz	8.38 dBr		Con	Fun	CLION KE	aut
M1	141000	1		30.0 M		-69.85 dBr					
				320006 G	MZ 1	-57.04 d					
ate: 6.JU		J 5 17.55				d Spur, 9		8GHz		6/8	
ate: 6.JU Spects	JL 201 rum	∬ 5 17.55	33		Con	d Spur, 90		8GHz		6,65	
ate: 6.JU Specb Ref Le	rum vel 0	J 5 17.55	33		Con			8GHz	Canton and	6,65	
ate: 6.JU Specb Ref Le	rum vel 0	∬ 5 17:55 ₩ 1,00 der	33 n		Con	d Spur, 90	GHz – 1	8GHz	CARTERIN	6,05	-59.37 d
ate: 6.JU Spects Ref Le 11 Max	rum vel 0	∬ 5 17.55 ₩ 1,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 9.7599500 GH
ate: 6.JU Spects Ref Le 11 Max	rum vel 0	∬ 5 17.55 ₩ 1,00 der	33 n		Con	d Spur, 90	GHz – 1	300			-59.37 d 3.7599500 GH 64.47 dBr
spects Spects RefLe 10 dBm 0 dBm	rum vel 0	∬ 5 17.55 ₩ 1,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
ate: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm	rum vel 0	∬ 5 17.55 ₩ 1,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
ate: 6.JU Spects Ref Le 11 Max 10 dBm -10 dBm -20 dBm	vel 0	∬ 5 17.55 ₩ 1,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm	rum vel 0	∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum	∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59,37 d 9,7599500 GH 64,47 dBn
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	rum vel 0	∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum vel 0	∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d 3.7599500 GH 64.47 dBr
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm		∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59,37 d 9,7599500 GH 64,47 dBn
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm 50 dBm 50 dBm		∬ ≸ ,00 der	33 n 30 dBm		Con	d Spur, 90	GHz – 1	1[1]			-59.37 dl -59.37 dl -64.47 dBn -64.47 dBn
ste: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -3	vel 0	5 17.55 5 17.55 0.00 dBr 0.00	33 n 30 dBm 		Con	d Spur, 90	GHz – 1	1[1]			-59.37 d .7599500 GH .64.47 dBr .00000000 GH
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm 50 dBm 50 dBm 50 dBm 50 dBm 50 dBm 50 dBm	vel 0	5 17:55 5 1	33 n 50 dBm 10 dBm	Mo	de Au	d Spur, 90	GHz – 1	1[1]			-59.37 d -59.37 d -64.47
ste: 6.JU Ref Le Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dB	vel 0	xD 8.30 17:55 300 dBr 0.00 0.00 12 12 15 15 15 15 10 10 10 10 10 10 10 10 10 10	33	Mo	de Au	d Spur, 90	GHz – 1	1[1]	Power Al	s s s	-59.37 d -7599500 GH -64.47 dBr -64.47 dBr -
ste: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm 50 dBm 50 dBm 50 dBm -70 dBm 50 dBm -70 dB	rum vel 0	5 17:55 5 17:55 0.00 dBr 0.00 5.31 0.00	33 n 50 dBm 0 dBm 12.0 15.0		Econo de Au	d Spur, 90	GHz – 1 Di M 2 pts Freque 9.75 13.91	ncy 995 GHz	-50.99 -57.16	bs dBm	-59.37 d -59.37 d -64.47 dBr -64.47 dBr -0000000 GH
ste: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm 50 dBm 50 dBm 50 dBm -70 dBm 50 dBm -70 dBm -70 dBm -11 11 11	Vel 0	5 17:55 5 17:55 0.00 dBr 0.00 5.31 0.00	33 n 50 dBm 0 dBm 12.0 15.0		Econo de Au	d Spur, 90	GHz – 1 Di M 2 pts Freque 9.75 13.91	u[1] 1[1]	-50.99	bs dBm	-59.37 d -59.37 d -64.47 dBr -64.47 dBr -0000000 GH
ste: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -3	Vel 0	5 17:55 5 17:55 0.00 dBr 0.00 0.00 0.00	33 n 30 dBm 0 dBm 0 dBm 80 dBm 10 dBm 1	Up D0 GHz D0 GHz D0 GHz D0 GHz	Econo de Au	d Spur, 90	GHz – 1 Di M 2 pts Freque: 9.75 13.91 16.68	ncy 1995 GHz 1999 GHz	-50.99 -57.16 -56.14	bs dBm dBm dBm	-59.37 d -59.37 d -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -200.00 dB -200.00 dB -200.00 dB
ste: 6.JU Specb Ref Le 1 Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm 50 dBm 50 dBm 50 dBm -70 dBm 50 dBm -70 dBm -70 dBm -11 11 11	Vel 0	5 17:55 5 17:55 0.00 dBr 0.00 0.00 0.00	33 n 30 dBm 0 dBm 0 dBm 80 dBm 10 dBm 1		de Au de Au 10 10 10	d Spur, 90	GHz – 1 D M P P P P P P P P P P P P P	ncy 1995 GHz 1999 GHz	-50.99 -57.16 -56.14	bs dBm	-59.37 d -59.37 d -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -61.47 dBr -200.00 dB -200.00 dB -200.00 dB
specb Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm 50 dBm 50 dBm 50 dBm -50 dBm -50 dBm -50 dBm -10 dBm	Vel 0	5 17:55 5 17:55 5 17:55 5 17:55 5 17:55 5 17:55 6 17:55 6 17:55 6 17:55 7 17:55	33 n 30 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 12.0 15.0 15.0 16.0 X-	Mo Up D0 GHz D0 GHz D0 GHz Volue	Cond de Au 9 10 10 10 10	d Spur, 90	GHz – 1 Di M 2 pts Freque: 9.75 13.91 16.68 Funct m	ncy 1995 GHz 1999 GHz	-50.99 -57.16 -56.14	bs dBm dBm dBm	-59.37 dl -59.37 dl -61.47 dBn -61.47 dBn -61.47 dBn -61.47 dBn -61.47 dBn -61.47 dBn -100000 GH -200.00 dB -200.00 dB -200.00 dB

Spect	rum	÷¥-								CTT
Ref Le	vel 0	.00 d8m	i Mo	de Aut	o Sweep					
01 Max	8. 100		102 7.5		10 Cart 10					
t0 dBm						D	1[1]			-63.31 dt
	(I)	(D 8.38	D dBm				1[1]		-24	-59.72 dBn
0 dBm	-	-0.00	0 dêm				1[1]		- 15	3.0000000 GH
-10 dBm	-		-				-	1		
-20 dBn										
-30 dBm	-		+ +		+ +			-	-	
-40 dBm										
-50 dBm	i			11	+ +				-	N 025
a contra la	dist.	Alexand	in the second	and I	In a billion to a line	and the second second	Sector de la constante	ومعقاقه وزيدهما ألاه	Constraints	the state of the state
- Chi	1	and the second			and a local data and a local data			-		And in case of the second s
-70 dBm	1		-			- 7		-	-	
-eu uBr	-								-	
Start 1	8.0 G	Hz			90002	pts			1	stop 25.0 GHz
Spuriou	s Emi	ssions	3							
	ge Lo		Range Up		BW	Freque		Power A		ALimit
	8.000	and the second second	21.000 GHz		0.000 kHz		315 GHz	-54.93	and a first strain strain	-200.00 dB
	4.000		24.000 GHz 25.000 GHz		1.000 kHz		061 GHz	-55.73	Apple and the Apple at the	-200.00 dB -200.00 dB
Marker	4.000	Gha	20.000 GHz 1	100	1.000 KH2	24.11	1390 GH2	-33,21	upin 1	-200,00 08
Type	Ref	Trc	X-value	1	Y-value	Func	tion	Eun	tion Re	sult
FDX	ever.		0.0	Hz	8.38 dBm		Statt	1.444	ALL	2011
M1		1	18.0 G		-59.72 dBm					
D1	FDX	1	20.36315 G	Hz	-63.31 dB	2				
	1.3	10					-	COLUMN TWO IS NOT	630	- PE-93-40149-
-										



BLE, CH39

Spect	rum 🛞							
and the second second	vel 0,00 d	Bm Mo	ode Auto Sweep					
1 Max				D3[1				60 00 J
10 dBm	EXD 6	420 dBm		Dali	1		7	-60.09 d
0 dBm		000 dBm		M1[1	1			-66.73 dBn
-10 dBn								30.0000 MH
-20 dBn								
-30 dBn								
-40 dBn		03				100	1242	
-50 dBn			- and so as an	interesting the	بند اشار ب	and anothing	+	6 · · · ·
-6D dBm		and the state of the state	Contraction of the local division of the loc				- distant	COLORIS OF STREET
70 dBm							-	
-Eu uBr			-			-	L	
	0.0 MHz Is Emissio		900	02 pts				Stop 9.0 GHz
And the second s	ge Low	Range Up	RBW	Frequency	. 1	Power At	os I	∆Limit
30	0.000 MHz	3.000 GHz	100.000 kHz	2,48000) GHz	7.06	dBm	-200.00 dB
	3.000 GHz 6.000 GHz	6.000 GHz 9.000 GHz	100.000 kHz 100.000 kHz	5.8486t 6.80552		-55.37		-200.00 dB
larker		97000 Minte	2001000 112	0.00005	- 141 HE	- 00.40	and 1	200700-00
	Ref Trc	X-value	Y-value	Function	1	Fund	tion Res	ult
FDX		0.0	And the second s	A A YEAR				
M1 D1	FDX 1							
D2	FDX 1	6.805523 (2Hz -59.85	dB				
D3	FDX 1	7.440002 (GHz -60.09	d8				
	JL 2015 17.5	843.C.	Cond Spur, S	9GHz – 180	GHz		449	(œ
Spect	rum ¥			9GHz – 180	GHz		4,45	
Spect	rum ≱) vel 0.00 d		Cond Spur, s	9GHz – 180	GHz		4,45	(T
Spect Ref Le	rum 🖗 vel 0.00 d			9GHz – 180			4,49	-61.86 d
Spect Ref Le 1 Max 10 dBm	rum 🖌	8m Mc		D1[1]		446	-61.86 di .5984300 GH
Spect RefLe 1 Max 10 dBm 0 dBm	rum 🖗 vel 0.00 d	Bm: Mc		<i>1</i> 9 00]			-61.86 d .5984300 GH 64.81 dBr
Spect RefLe 1 Max 10 dBm 0 dBm	rum 🖗 vel 0.00 d	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 11 Max 10 dBm 0 dBm -10 dBm	rum (#)	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm	rum (#)	8m Mc		D1[1]			-61.86 di .5984300 GH -64.81 dBn
Spect Ref Le 11 Max 10 dBm -10 dBm -20 dBm -30 dBm	rum (#)	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum (#)	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	rum (*) vel 0.00 d	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	rum (*) vel 0.00 d	8m Mc		D1[1]			-61.86 d .5984300 GH 64.81 dBr
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm	rum # vel 0.00 d FXD 6. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	8m Mc		D1[1]			-61.86 dl .5984300 GH
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm	rum ₩ vel 0,00 d	8m Mc	n	D1[1]		9	-61.86 dt
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -	rum (FXD 6.	Bm Mc +20 dBm 000 dBm 000 dBm	n	D1[1]		9	-61.86 d .598-1300 GH -64.81 dBr .0000000 GH
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	rum (FXD 6. FXD 6. C1 C1 D.0 GHz Is Emission	Bm Mc +20 dBm 000 dBm	ode Auto Sweep	D1[1 M1[1	1	Power Al	9 	-61.86 d .598-1300 GH -64.81 dBr .0000000 GH
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	rum ₩ vel 0.00 d FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm	900 RBW 1 100.000 kHz	D1[1 M1[1 02 pts Frequency 9.01993] 1 5 GH2	Power Ab -55.44	9 S os	-61.86 d .598-1300 GH .6-1.81 dBr .0000000 GH top 18.0 GHz top 18.0 GHz ALimit -200.00 d8
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm 50 dBm -70 dBm 50 dBm -70 dB	rum ₩ vel 0.00 d FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm 000 dBm 1000 dBm	900 RBW 100.000 kHz	D1[1 M1[1 02 pts Frequency 9.9199 14.96261] 1 5 GHz 5 GHz	-55.44 -56.07	9 S dBm dBm	-61.86 d .598-1300 GH -64.81 dBr .0000000 GH top 18.0 GHz ALimit -200.00 dB
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	rum ₩ vel 0.00 d FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm	900 RBW 1 100.000 kHz	D1[1 M1[1 02 pts Frequency 9.01993] 1 5 GHz 5 GHz	-55.44	9 S dBm dBm	-61.86 d .598-1300 GH -64.81 dBr .0000000 GH top 18.0 GHz ALimit -200.00 dB
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -11 dBm -11 dBm -11 dBm -11 dBm -11 dBm -11 dBm -11 dBm -11 dBm -11 dBm -10 dBm	rum ₩ vel 0.00 d FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm 000 dBm 12000 dBm 12.000 GHz 18.000 GHz 18.000 GHz	Participation Sweep Participation Sweep Participa	D1[1 M1[1 M1[1 02 pts Frequency 9.9199 14.9626 17.61620	1 5 GHz 5 GHz 5 GHz 5 GHz	-55.44 -56.07 -56.07	9 S S S S S S S S S S S S S S S S S S S	-61.86 d .599-1300 GH -64.81 dBr .0000000 GH top 18.0 GHz top 18.0 GHz ALimit -200.00 dB -200.00 dB
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -11 Max -70 dBm -11 Max -11 Max -11 Max -11 Max -11 Max -11 Max -11 Max -10 dBm -10 dBm -	rum ₩ vel 0.00 d FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 0.0 FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm	de Auto Sweep de Auto Sweep geographic	DI[1 MI[1 MI[1 02 pts Frequency 9 91991 14.96261 17.61620 Function	1 5 GHz 5 GHz 5 GHz 5 GHz	-55.44 -56.07 -56.07	9 S dBm dBm	-61.86 d .599-1300 GH -64.81 dBr .0000000 GH top 18.0 GHz top 18.0 GHz ALimit -200.00 dB -200.00 dB
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30	rum ₩ vel 0.00 d FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm 000 dBm 100 dBm	900 RBW 100.000 kHz 100.000	D1[1 	1 5 GHz 5 GHz 5 GHz 5 GHz	-55.44 -56.07 -56.07	9 S S S S S S S S S S S S S S S S S S S	-61.86 d .599-1300 GH -64.81 dBr .0000000 GH top 18.0 GHz top 18.0 GHz ALimit -200.00 dB -200.00 dB
Spect Ref Le 1 Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -10 dBm -10 dBm -70 dBm -10 dBm -10 dBm -70 dBm -10 dBm -10 dBm -70 dBm -10 dBm	rum ₩ vel 0.00 d FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 FXD 6. 0.0 0.0 FXD 6. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Bm Mc 420 dBm 000 dBm 000 dBm 100 dBm	900 RBW 100.000 kHz 100.000	D1[1 	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-55.44 -56.07 -56.07	9 dBm dBm dBm tion Res	top 18.0 GHz -200,00 d8 -200,00 d8



Spect	rum	*									
Ref Le	vel 0	.00 d8m	M	ode At	ito Sweep						
🛙 1 Max	8. 72		101 12		10 10						
10 dBm	-		_				D1[1]			04	-61.23 di 2.5428990 GH
e de s	F	XD 5.420					M1[1]				-57.87 dBr
0 dBm		-0.000	dem							18	.0000000 GH
10 dBn	i-+-		+ +		+ +			_	+ +	-	
-20 dBn	_										
-30 dBn	<u>+</u>		+ +		+ +			_			
-40 dBn			-		-						
			1		1 1						
-50 dBn		10	- 722			162	1.0	01			
And Personal Property lies	L H	d present a de set	d and the state of	a beau	and the second s	and the second	and the second		Martin Latin Carl	and the second second list	and a state of the
-70 dBn			and the second second	10.10	100						
26.643	1										
-BU uBn			+ +		+ +			_	-	L	
Start 1		And a local data in the local		_	90002	pts		_		2	top 25.0 GHz
	ge Lo	issions	Range Up		RBW			1	Power A		∆Limit
	98.000		21.000 GHz		0.000 kHz		quency 9.13965	GH2	-55.09		-200.00 dB
	1.000	and the second second	24.000 GHz		0.000 kHz		2.54290	Contraction and the	-54.81	and the second second	-200.00 dB
2	4,000	GHZ	25.000 GHz	10	0.000 kHz	2	4.65776	GHz	-55.34	dBm	-200,00 dB
larker								110023			
Туре	Ref	Trc	X-value		Y-value		unction		Fun	ction Re	sult
FDX				Hz	6.42 dBn		on the news	-			
M1 D1	FDX	1	22.542899		-57.87 dBn -61.23 dB			_			
51	PDA.	10	6603F0133	3-14	-01,23.00		_	_			
	13	д							Contraction of the local division of the loc	400	



C.4 Power Spectral Density

Test limits:

FCC part	RSS part	Limits
15.247 (e)	RSS-247 Clause 5.2 (2)	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

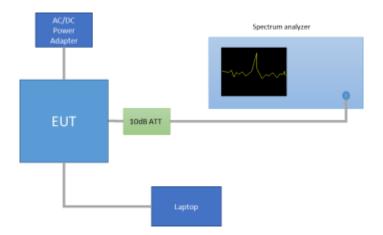
Test procedure:

The maximum peak power spectral density level of the fundamental emission was measured using the method PKPSD, defined in paragraph 10.2 of FCC KDB 558074 D01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

The maximum average power spectral density level of the fundamental emission was measured using the method AVGPSD-2, defined in paragraph 10.5 FCC KDB 558074 D01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

The setup below was used to measure the power spectral density. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

The declared maximum antenna gain is 3dBi.



Results tables:

PSD RMS

				PSD R	MS [dBm]
Mode	Meas. Duty Cycle [%]	СН	Frequency [MHz]	Measured Conducted	Duty cycle Compensated
		0	2402	-0.03	1.69
BLE	63	19	2440	0.24	2.23
		39	2480	-1.72	0.27

PSD Peak

Note: these PSD_{Peak} values are shown just as a reference for the compliance of the Out-of-band Measurements, thus the RBW used for these measurements was 100kHz.

In any case, the corresponding PSD Peak value at 3kHz can be derived from these results by using the RBW correction:

$$PSD_{Peak}@3kHz = PSD_{Peak}@100kHz - 10log\left(\frac{100kHz}{3kHz}\right)$$

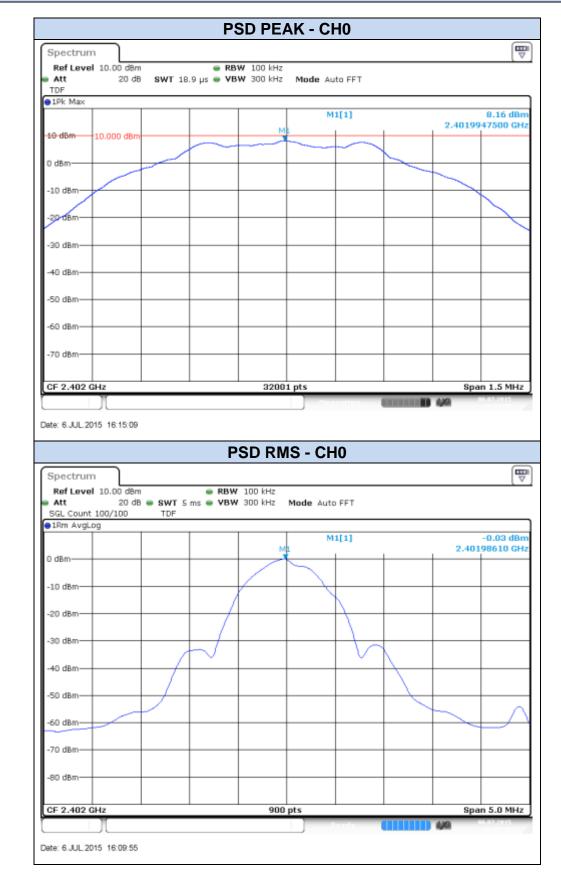
For the maximum PSD_{Peak} value found (8.38dBm), the corresponding PSD_{Peak} at 3kHz is -6.85dBm.

	PSD PEAK [dBm]			
Mode	СН	Frequency [MHz]	Measured Conducted	
BLE	0	2402	8.16	
	19	2440	8.38	
	39	2480	6.42	

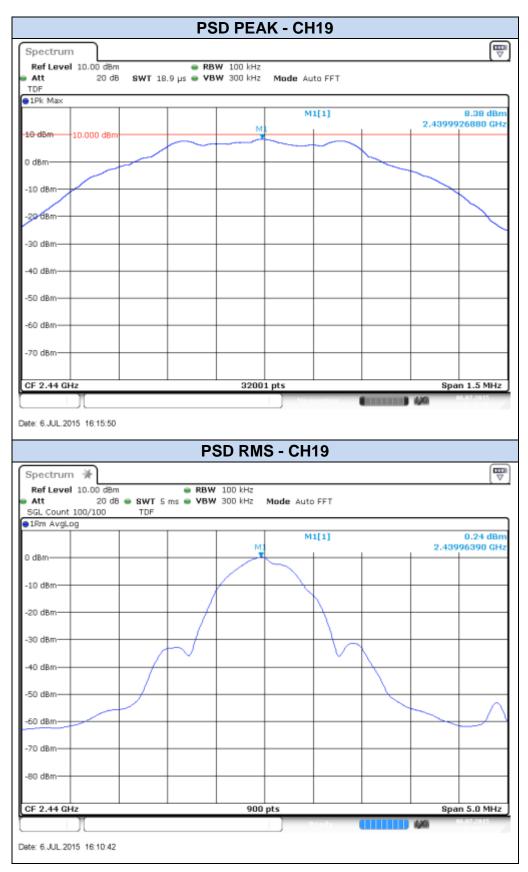


Results screenshot:

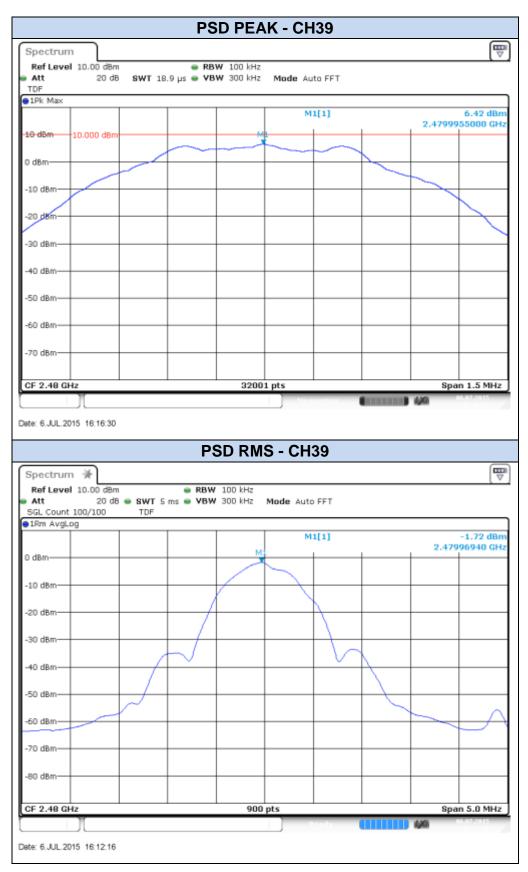
BLE

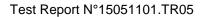














C.5 Radiated spurious emission

Standard references:

FCC part	RSS part	Limits				
	RSS-247 Clause 5.5	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):				
15.247 (d)		Freq Range (MHz)	Field Stregth (µV/m)	Field Stregth (dBµV/m)	Meas. Distance (m)	
		0.009-0.490	2400/f(kHz)	(αδμν/π)	300	
		0.490-1.705	2400/f(kHz)	-	300	
		1.705-30.0	30	-	30	
		30-88	100	40	3	
		88-216	150	43.5	3	
		216-960	200	46	3	
		960-25000	500	54	3	
		The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.				

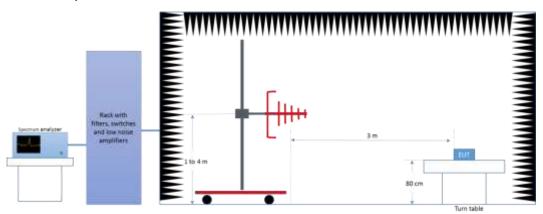
Test procedure:

The setups below were used to measure the radiated spurious emissions.

Depending of the frequency range and bands being tested, different antennas and filters were used. The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

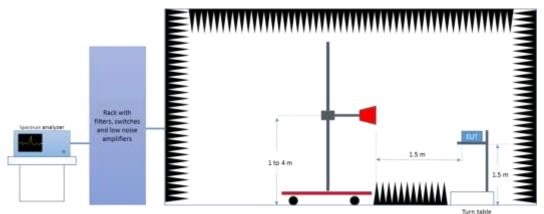
The radiated spurious emissions were measured on the worst case configuration selected from the chapter *C.2 Maximum Output Power and antenna gain* and using the lowest, middle and highest channels.

Radiated Setup < 1GHz





Radiated Setup > 1GHz

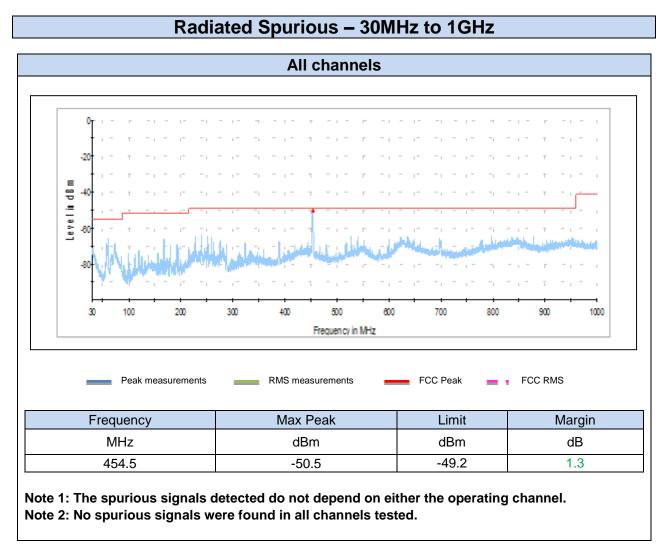


The following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dB μ V/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values		
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)	
30-88	3	500	53.98	-41.2	
88-216	3	200	46.02	-49.2	
216-960	3	150	43.52	-51.7	
960-25000	3	100	40.00	-55.2	

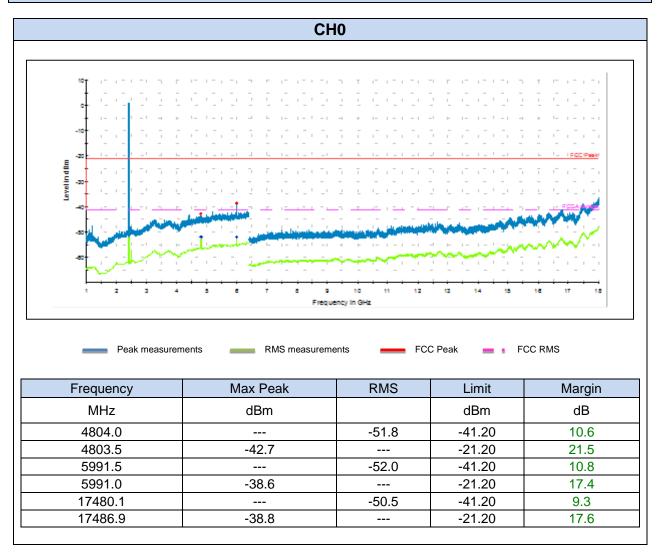


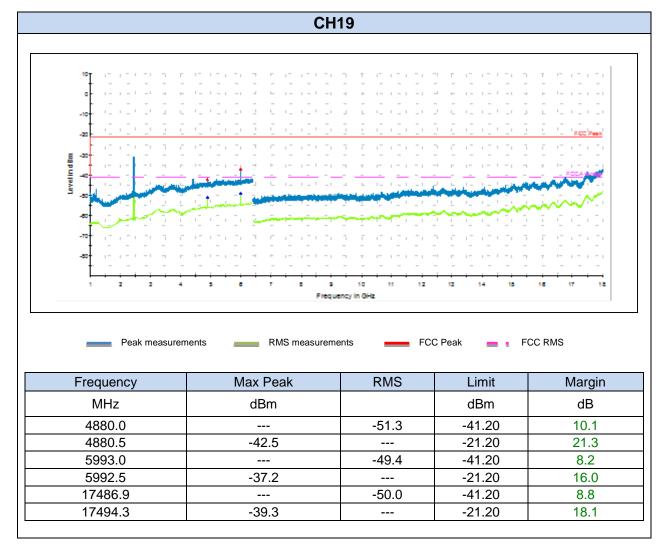
Test Results:



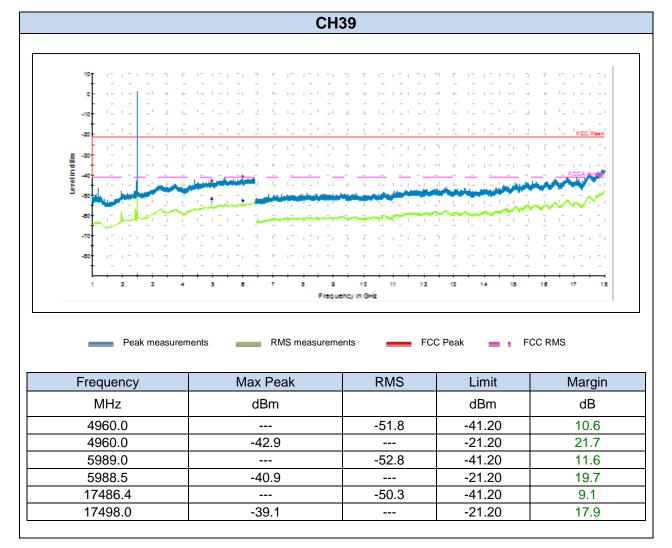


Radiated Spurious – 1 GHz to 18GHz BLE









Rev. 00

