

FCC Test Report

Report No.: AGC02802180601FE05

FCC ID	: PANCM8821CU
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: ac1x1+BT module
BRAND NAME	: CC&C
MODEL NAME	: CM-8821CU
CLIENT	: CC&C Technologies, Inc
DATE OF ISSUE	: Jul. 10, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC02802180601FE05 Page 2 of 81

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jul. 10, 2018	Valid	Initial Release

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Report No.: AGC02802180601FE05 Page 3 of 81

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY		5
2. GENERAL INFORMATION		
2.1. PRODUCT DESCRIPTION	<u>, 6) , 6) , 6) , 7)</u>	
2.2. TABLE OF CARRIER FREQUENCYS	School O E and Con	
2.3. IEEE 802.11N MODULATION SCHEME	<u> </u>	7
2.4. RELATED SUBMITTAL(S) / GRANT (S)		
2.5. TEST METHODOLOGY	A A Street St	7
2.6. SPECIAL ACCESSORIES	C ***	7
2.7. EQUIPMENT MODIFICATIONS		7
3. MEASUREMENT UNCERTAINTY	A Contraction of the second	
4. DESCRIPTION OF TEST MODES		9
5. SYSTEM TEST CONFIGURATION		
5.1 CONFIGURATION OF TESTED SYSTEM	The second se	
5.2 EQUIPMENT USED IN TESTED SYSTEM		
5.3. SUMMARY OF TEST RESULTS		
6. TEST FACILITY	in the second	
7. OUTPUT POWER		
7.1. MEASUREMENT PROCEDURE		
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	the second s	
7.3. LIMITS AND MEASUREMENT RESULT		
8. 6 DB BANDWIDTH		
8.1. MEASUREMENT PROCEDURE	the second	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)		
8.3. LIMITS AND MEASUREMENT RESULTS		
9. CONDUCTED SPURIOUS EMISSION		24
9.1. MEASUREMENT PROCEDURE	· · · · · · · · · · · · · · · · · · ·	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)		
9.3. MEASUREMENT EQUIPMENT USED		

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Report No.: AGC02802180601FE05 Page 4 of 81

9.4. LIMITS AND MEASUREMENT RESULT	24
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	
10.1 MEASUREMENT PROCEDURE	
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3 MEASUREMENT EQUIPMENT USED	
10.4 LIMITS AND MEASUREMENT RESULT	
11. RADIATED EMISSION	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT	
11.4. TEST RESULT	
12. BAND EDGE EMISSION	
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SET-UP	
12.3. TEST RESULT	
13. FCC LINE CONDUCTED EMISSION TEST	
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	

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Report No.: AGC02802180601FE05 Page 5 of 81

	the contract of the second s
Applicant	CC&C Technologies, Inc.
Address	8F,No.150,Jian Yi Rd,Zhonghe District,New Taipei City,235,Taiwan
Manufacturer	Kunshan CC&C Technologies,Co., Ltd
Address	No.9 building,3rd Main Street,Kunshan Free Trade Zone,Jiangsu Province,P.R.China
Product Designation	ac1x1+BT module
Brand Name	CC&C
Test Model	SA
Date of test	Jun. 29, 2018 to Jul. 10, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By

Max 2ha

Max Zhang(Zhang Yi)

Jul. 10, 2018

Reviewed By

BONG Nie

Bart Xie(Xie Xiaobin)

Jul. 10, 2018

Approved By

Forvesto en

Forrest Lei(Lei Yonggang) Authorized Officer

Jul. 10, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "ac1x1+BT module". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Output Power	IEEE 802.11b:19.77dBm; IEEE 802.11g:16.09dBm; IEEE 802.11n(20):16.24dBm; IEEE 802.11n(40):13.76dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 for 20MHZ bandwidth system 7 for 40MHZ bandwidth system
Hardware Version	OB
Software Version	v2.0
Antenna Designation	Internal antenna
Number of transmit chain	A the state of the
Antenna Gain	3.16dBi
Power Supply	DC3.3V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
NO	1 I I A A A A A A A A A A A A A A A A A	2412 MHZ
	2 Thursday Car	2417 MHZ
	G ³	2422 MHZ
	4	2427 MHZ
	Hard South Stand	2432 MHZ
2400~2483.5MHZ	6.0	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	5 9 9 C	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11, For 40MHZ bandwidth system use Channel 3 to Channel 9

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2.3. IEEE 802.11N MODULATION SCHEME

MCS					NCI	BPS	NDI	BPS	Da rate(N	ata Nbps)
Index	Nss	Modulation	R	NBPSC	_				800	nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	121	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	0	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Explanation
Number of spatial streams
Code rate
Number of coded bits per single carrier
Number of coded bits per symbol
Number of data bits per symbol
Guard interval

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: PANCM8821CU** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Report No.: AGC02802180601FE05 Page 8 of 81

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 dB$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.			TE	ST MODE DESCRIPT	TION	
ta 1	10 11	e 6 5	Fation of Global C	Low channel TX	, GO.	SCO
2	Franci Global Contr	SCO.	SGC	Middle channel TX		The second
3	Pier			High channel TX	The the The	C The word Clobal Contra
4	the states	The state	C Stand Glot	Normal operating	C The section of Global	C CC
Note: Transm Transm Transm	it by 802.11b it by 802.11g it by 802.11n	with Date rate with Date rate (20MHz) with	(1/2/5.5/11) (6/9/12/18/24 Date rate (6.5	4/36/48/54) 5/13/19.5/26/39/52/58.	.5/65)	The state of the s

Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

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Report No.: AGC02802180601FE05 Page 10 of 81

5. SYSTEM TEST CONFIGURATION 5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
	ac1x1+BT module	CM-8821CU	PANCM8821CU	EUT
2	PC	HP Pavilion 15	N/A	Support
3	PC adapter	HP 4411SS G4	DC19V/4.74A	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012			
NVLAP LAB CODE	600153-0			
Designation Number	CN5028			
FCC Test Firm Registration Number	682566			
Description	Description Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	espi	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	CC&C	Mar.01, 2018	Feb.28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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Report No.: AGC02802180601FE05 Page 12 of 81

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note : The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

AVERAGE POWER SETUP



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Report No.: AGC02802180601FE05 Page 13 of 81

7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	S	SC	NO
TEST MODE	802.11b with data rate 1			The compares

			- A64
Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	19.24	30	Pass
2.437	19.53	30	Pass
2.462	19.77	30	Pass

TEST ITEM	OUTPUT POWER	C All statute of Colora	C Attestation of Cu	SC
TEST MODE	802.11g with data rate 6			

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	15.68	30	Pass
2.437	15.50	30	Pass
2.462	16.09	30	Pass

TEST ITEM	OUTPUT POWER		TK the more
TEST MODE	802.11n 20 with data rate 6.5	The The Company	Constant of Course

Frequency	Average Power	Applicable Limits	Pass or Fail
(GHz)	(dBm)	(dBm)	1 433 01 1 41
2.412	15.81	30	Pass
2.437	15.32	30	Pass
2.462	16.24	30	Pass

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Report No.: AGC02802180601FE05 Page 14 of 81

TEST ITEM	OUTPUT POWER	C The state of Constant	Constant
TEST MODE	802.11n 40 with data rate 13.5	SC SC	SCO
Global B The word Global			the and
Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	13.58	30	Pass
2.437	13.63	30	Pass
2,452	13.76	30	Pass

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Report No.: AGC02802180601FE05 Page 15 of 81

8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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Report No.: AGC02802180601FE05 Page 16 of 81

8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	C Allestation of Growth	C Autostation of Globa	C Allestation of
TEST MODE	802.11b with data rate 11			OC III

LIMITS AND MEASUREMENT RESULT

Applicable Limits			Applicable Limits	
		Test Data ((MHz)	Criteria
	SC	Low Channel	9.049	PASS
	>500KHZ	Middle Channel	8.999	PASS
		High Channel	9.039	PASS

TEST ITEM	6DB BANDWIDTH	C Assiding C	CC Breat	NO
TEST MODE	802.11g with data rate 54			

	LIMITS AND MEASU	JREMENT RESULT	
Annlinghle Limite		Applicable Limits	
Applicable Limits	Test Dat	a (MHz)	Criteria
NO S	Low Channel	16.36	PASS
>500KHZ	Middle Channel	16.35	PASS
C The station of Clobal C.	High Channel	16.36	PASS

TEST ITEM	6DB BANDWIDTH	Coone C Australion of C	S	NO.
TEST MODE	802.11n 20 with data rate 65	NOC		The second

	LIMITS AND MEASU	REMENT RESULT	
Annlinghin Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	17.56	PASS
>500KHZ	Middle Channel	17.55	PASS
adout Commun. C. Strangelon of Global Co.	High Channel	17.53	PASS

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TEST ITEM	6DB BANDWIDTH	All and a standard a standard	C The stand count course of the stand
TEST MODE	802.11n 40 with data rat	e 135	
Budden (B) The stand Clobal	GU GU		A THE
	LIMITS AND MEASU	REMENT RESULT	
Annlinghig Limite		Applicable Limits	
Applicable Limits	Test Data	ı (MHz)	Criteria
American American	Low Channel	36.31	PASS
>500KHZ	Middle Channel	36.05	PASS
	High Channel	36.30	PASS

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802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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Keysight Spectrum	n Analyzer - Oc	cupied BW									d X
Center Freq	RF 50 Ω 2.46200	AC 00000	GHz #FGain:Low	Center F Trig: Fre #Atten: 3	nse:INT req: 2.46200 eRun 30 dB	00000 GHz Avg Hold	ALIGN AUTO	Radio St Radio De	d: None evice: BTS	Frequ	iency
10 dB/div	Ref 20.0	0 dBm					Mkı	1 2.45 4.04	573 GHz 422 dBm		
10.0 0.00		mm	11	mmmany	unterner		Another			Cer 2.46200	iter Freq 0000 GHz
-10.0 -20.0 -30.0	and the second second							hand hand have been and have b	handraghand		
-40.0 -50.0 -60.0											
-70.0									an 20 MHz		
#Res BW 10	0 kHz			#VI	3W 300 I	٢Hz		Sweep	3.733 ms	3.00	CF Step
Occupie	d Band	lwidth	600 MI	1-7	Total P	ower	21.	9 dBm		<u>Auto</u>	Man
Transmit	Freq Er	۲۰. ror	-1.355 k	1Z (Hz	% of O	BW Pow	er 99	9.00 %		Fre	e q Offset 0 Hz
x dB Ban	dwidth		17.53 N	IHz	x dB		-6	.00 dB			

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n (40) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

STATUS



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Report No.: AGC02802180601FE05 Page 24 of 81

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.
- **Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT	
Appliaghte Limite	Measurement Re	esult
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -30dBc than the limit Specified on the BOTTOM Channel	PASS
power that is produce by the intentional radiator shall be at least 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -30dBc than the limit Specified on the TOP Channel	PASS

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sa K	eysight Spe	ctrum Analyzer - Si	wept SA								
L <mark>XI</mark>		RF 50 9	Ω AC		SEI	NSE:INT		ALIGN AUTO	TRA		Peak Search
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			IF	Gain:Low	#Atten: 3	0 dB			D	et P NNNNN	Next Deals
								М	kr1 940	.86 MHz	NextPeak
10 d	B/div	Ref 20.00	dBm						-59.2	54 dBm	
LUg						Ĭ					
10.0											Next Pk Right
10.0	Ί										
0.00											
0.00	Ί										
-10.0											Next PK Left
10.0											
-20.0										DI 1 -21 87 dBm	
											Marker Delta
-30.0											
-40.0											
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-50.0											
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-60.0				der der der er		h					Mkr→RefLvl
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_							00	0104			
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	eysight Spe	ctrum Analyzer - Si RF 50 9	wept SA Ω AC		SEI	NSE:INT	Ave	ALIGN AUTO	TPA		Peak Search
Ki IXI Mai	eysight Spe rker 1	ctrum Analyzer - So RF 50 9 2.3995333	wept SA Ω AC B17777 G	Hz NO: Fast	SEI	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr :>100/100	TRA	CE 1 2 3 4 5 6 PE M	Peak Search
Mai	eysight Spe ker 1	ctrum Analyzer - Si RF 50 9 2.3995333	wept SA Ω AC B17777 G IF	HZ NO: Fast Gain:Low	SEI Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100	TRA TY D	CE 1 2 3 4 5 6 PE M WWWW ET P N N N N N	Peak Search
к. ,х л Маг	eysight Spe r ker 1	ctrum Analyzer - So RF 50 9 2.3995333	wept SA Ω AC 817777 G P IF	Hz NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100 Mkr	тка ту 1 2.399	CE 1 2 3 4 5 6 PE MWWWW ET P NNNNN 53 GHz	Peak Search Next Peak
10 d	eysight Spe rker 1	RF 50: RF 50: 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	тка тү 1 2.399 -41.1	ET P NNNN 53 GHz 46 dBm	Peak Search Next Peak
Mar Mar 10 d Log	rker 1	ctrum Analyzer - Si RF 50 9 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast Gain:Low	SEI Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100	TRA TY 0 1 2.399 -41.1	ET P NN NN N 53 GHz 46 dBm	Peak Search
<u>м</u> ки мат 10 d Log	rker 1	Ctrum Analyzer - Si RF 50 9 2.3995333 Ref 20.00	wept SA Ω AC B177777 G P IF dBm	HZ NO: Fast Gain:Low	Trig: Free #Atten: 3	nse:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100	TRA TY 1 2.399 -41.1	CE 12 3 4 5 6 PE MWWWW ET P NNNN 53 GHz 46 dBm	Peak Search Next Peak
10 d Log	eysight Spe rker 1 B/div	ctrum Analyzer - Si RF 50 9 2.39953333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mkr	TRA TV 1 2.399 -41.1	22 1 3 4 5 6 PP NNNNN 53 GHz 46 dBm	Peak Search Next Peak
10 d Log	eysight Spe rker 1 B/div	ctrum Analyzer - Si RF 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mkr	TRA TY 0 1 2.399 -41.1	22 1 2 3 4 5 6 PENNINN 53 GHz 46 dBm	Peak Search Next Peak Next Pk Right
10 d Log 10.00	B/div	ctrum Analyzer - Si RF 50 2.3995333 Ref 20.00	wept SA Ω AC 817777 G P IF dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100	TRA TY 1 2.399 -41.1	53 GHz 46 dBm	Peak Search Next Peak Next Pk Right
10 d Log 10.00	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B 17777 G P IF dBm	HZ NO: Fast Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100	тва ту 1 2.399 -41.1	53 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
10 d 10.00 10.00 -10.00	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast (→ Gain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100	TRA TY 1 2.399 -41.1	CE 12 3 4 5 6 PRE 2 3	Peak Search Next Peak Next Pk Right Next Pk Left
10 d Log 10.00 -10.00	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >>100/100	1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE 2 3 6 PRE 2 3 6 PRE 2 3 6 PRE 2	Peak Search Next Peak Next Pk Right Next Pk Left
ска ка 10.0 10.0 0.00 -10.0 -20.0	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100	TRA TY 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE 2 5	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
10 d d 10 d 10.c 10.c -10.0 -20.0	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100	TRA TV 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE 2 5	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
ска ка 10 d 10.0 0.00 -10.0 -20.0 -30.0	B/div	ctrum Analyzer - Si RE 50 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 Mikr	TRA TV 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
ш к, хя Мал 10.0 -10.0 -20.0 -30.0	B/div	ctrum Analyzer - Su RF 50 : 2.3995333 Ref 20.00	wept SA Ω AC B17777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 Mikr	TRA TRA 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE 2 3 6 PRE 2 3 6 PRE 2 3 6 P	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
ш к, х Лап 10.0 0.00 -10.0 -20.0 -30.0 -40.0	B/div	ctrum Analyzer - Su RF 50 1 2.3995333 Ref 20.00	wept SA 2 AC 317777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 Mikr	TRA TRA 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
ш ки ки Мат 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	B/div	ctrum Analyzer - Si	wept SA 2 AC 317777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 MKr	TRA TV 1 2.399 -41.1	DL1-21 87 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
King Kang Kang Kang Kang Kang Kang Kang Ka	B/div	Ref 20.00	wept SA 2 AC 317777 G P IF dBm	HZ NO: Fast G Gain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100 Mikr	TRA TV 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 6 6 PRE 2 3 6 PRE 2 3 6 6 PRE 2 3 6 PRE 2 3 6 6 PRE 2 3 6	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
King Kang Kang Kang Kang Kang Kang Kang Ka	B/div	Ref 20.00	wept SA 2 AC 317777 G P IF dBm	Hz Sain:Low	SEI	NSE:INT		ALIGN AUTO 2: Log-Pwr >>100/100 MKr	тка тут 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 4 5 6 M WWWWW P NNNN 53 GHz 46 dBm 0L1 -21 87 dBm 1 7	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 d d 10 d d 10 c 10 c 10 c 10 c -10 c -20 0 -30 0 -40 0 -50 0 -60 0	B/div	Crum Analyzer - Sr RF 50 2.3995333 Ref 20.00	wept SA 2 AC 317777 G P IF dBm	Hz Gain:Low	SEI				TRA TRA TRA 1 2.399 -41.1	CE 1 2 3 4 5 6 PRE 2 3 4 5 6 M WWWWW P NNNN 53 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
ст ки ки Мат 10 d d 10 d 10 c 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0	B/div	Crtum Analyzer - Su RF 50 2.3995333 Ref 20.00	wept SA 2 AC 317777 G P IF dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	Hz Gain:Low	SEI	NSE:INT		ALIGN AUTO 2: Log-Pwr >>100/100 MKr	TRA TRA 1 2.399 -41.1	CE 2 3 4 5 6 PRE PNNNN 53 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
10 d 10 d 10 c 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0	B/div	Crum Analyzer - Sr RF 50 2.3995333 Ref 20.00	wept SA 2 AC 317777 G P IF dBm	Hz NO: Fast Gain:Low	SEI Trig: Free #Atten: 3	NSE:INT		ALIGN AUTO 2: Log-Pwr >100/100 MKT	TRA TRA 1 2.399 -41.1	CE 1 2 3 4 5 6 P N N N N N 53 GHz 46 dBm OL1 -21 67 4641 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta MkrCF MkrRef Lvl
10 d 10 d 10 c 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0	B/div	Crum Analyzer - Sr RF 50 2.3995333 Ref 20.00 	wept SA 2 AC 317777 G P IF dBm	Hz NO: Fast Gain:Low	SEI	NSE:INT		ALIGN AUTO 2: Log-Pwr >100/100 MKT	TRA TRA 1 2.399 -41.1	CE 2 3 4 5 6 PRE PNNNN 53 GHz 46 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2
10 d 10 d 10 d 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -50.0 -70.0 Stal #Re	B/div	Crum Analyzer - Si RF 50 2.3995333 Ref 20.00 Comparison Spansor Spans	wept SA R AC 317777 G P IF dBm IF IF IF IF IF IF IF IF IF IF	Hz NO: Fast Gain:Low	SEI		Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 MKT	TRA TRA 1 2.399 -41.1	CE 1 2 3 4 5 6 P N N N N N 53 GHz 46 dBm OL1 -21 87 dBm 1 4 June 4 4 4	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2
10 d Man 10.0 -10.0 -20.0 -30.0 -30.0 -40.0 -50.0 -50.0 -70.0 Sta	B/div B/div	Crum Analyzer - Sr RF 50 2.3995333 Ref 20.00 	wept SA R AC 317777 G P IF dBm IF IF IF IF IF IF IF IF IF IF	Hz NO: Fast Gain:Low	SEI Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 MKT	TRA TP 1 2.399 -41.1	CE 2 3 4 5 6 P N N N N 53 GHz 46 dBm 	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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Report No.: AGC02802180601FE05 Page 27 of 81



Keysight Spectrum Analyzer - Swept SA				
₩ RF 50 Ω AC Marker 1 2.398366612220 0	SENSE:INT CHZ PNO: Fast Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6	Peak Search
10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1 2. -{	398 37 GHz 54.808 dBm	Next Peak
10.0				Next Pk Right
-10.0				Next Pk Lef
-20.0			DL1 -21.43 dBm	Marker Delta
-40.0				Mkr→CF
-50.0	<mark>telebilen seinen kontesta seinen s</mark>		the trends in the second	Mkr→RefLv
-70.0	n stand para para para para para para para par			More
Start 1.0000 GHz #Res BW 100 kHz	#VBW 300 kHz	Sto Sweep 134.0 r	p 2.4000 GHz ns (30000 pts)	1 of 2
				- 102.00
Keysight Spectrum Analyzer - Swept SA μ RF 50 Ω AC Marker 1 24.960970099003	GHZ PNO: Fast Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MWWWW	Peak Search
10 dB/div Ref 20.00 dBm	IFGaIn:Low #Atten. 30 db	Mkr1 24	.961 0 GHz 37.874 dBm	NextPeak
10.0				Next Pk Right
-10.0				Next Pk Lef
-20.0			DL1-21.43 dBm	Marker Delta
-40.0		a a contract of the second	1. Number of the state of the s	Mkr→CF
				Mkr→RefLv
-70.0				

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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Report No.: AGC02802180601FE05 Page 30 of 81



	pectrum Analyzer - Swept									
LXI	RF 50 Ω	AC		SEN	SE:INT	A	ALIGN AUTO	TRAC		Peak Search
Marker '	1 2.399533317	PNO: F	ast 🕠	Trig: Free	Run	Avg Type Avg Hold:	:>100/100	TYP	E 1 2 3 4 5 6 E M₩₩₩₩₩₩	
		IFGain:	Low	#Atten: 30) dB	_		DE	PNNNNN	NextBeck
							Mkr	1 2.399	53 GHz	NextPeak
10 dB/div	Ref 20.00 dB	m						-28.5	14 aBm	
				Ĭ						
10.0										Next Pk Right
0.00										
										Next Pk Left
-10.0										
-20.0									1	Marker Delte
									DL1 -26.56 dum	Marker Deita
-30.0										
-40.0										Mkr→CF
-50.0										
-60.0			- Inter Street at	A DECEMBER OF LEVEL	and the street	and this paper the			den distanti	Mkr→RefLvl
	a de la compañía de Enterno este esta de la compañía de l		and a state of the second	and the second second	(interesting to be shall all	a contra cont	a yali dashar juda sa kata dalar	ash bi ashi shek kitab		
-70.0										
										More
Start 1 0								Ston 2/	000 CHz	1 of 2
#Res BN	/ 100 kHz		#VPM 3			0	ween 13	4.0 ms (3	0000 GH2	
				LUV NILZ			<u> </u>			
MSG							STATUS		0000 pt3/	
MSG	<u></u>		# 9 D 9 9 J				STATUS		oooo ptoj	- 10k - 10
MSG Keysight S	pectrum Analyzer - Swept	SA	# 4 D 4 4 J	SEN						
MSG Keysight S Marker	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884	sa ac 9962 GH z			ISE:INT	Avg Type	STATUS	TRAC	E] 2 3 4 5 6	Peak Search
MSG Keysight S Marker	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884	SA AC 9962 GHz PNO: F IFGain:1	ast C	SEN: Trig: Free #Atten: 30	ISE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100	TRAC	E 1 2 3 4 5 6 E MWWWW T P N N N N	Peak Search
MSG Keysight S LXI Marker	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884	sa AC 9962 GHz PNO: F IFGain:1	ast C	SEN: Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100	TRAC TYF DE 1.24.99		Peak Search Next Peak
MSG Keysight S W Marker 1 10 dB/div	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	sa ac 9 962 GHz PNO: F IFGain:I	ast ()	SEN: Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 Mkr	TRAC TVF DE 1 24.998 -37.7	E 1 2 3 4 5 6 E M M M M M T P N N N N N B 5 GHz 62 dBm	Peak Search Next Peak
MSG Keysight S Marker 10 dB/div	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	sa AC 9962 GHz PNO: F IFGain:1	ast C	SEN: Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 Mkr	TRAC TYF DE 1 24.998 -37.7	E 1 2 3 4 5 6 E MWWWW T P NNNN B 5 GHz 62 dBm	Peak Search Next Peak
MSG Keysight S Marker / 10 dB/div	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain: m	ast	SEN: Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100	ткас Тур 1 24.998 -37.7	E 1 2 3 4 5 6 E M WWWW T P NNNN B 5 GHz 62 dBm	Peak Search Next Peak
MSG Keysight S Marker 7 10 dB/div Log	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain: m	ast C	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 Mkr	TRAC TYP DE 1 24.998 -37.7	E 1 2 3 4 5 6 E M WWW F P NNNN B 5 GHz 62 dBm	Peak Search Next Peak
MSG Keysight S X Marker / 10 dB/div Log	pectrum Analyzer - Swept RF 50Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain: m	ast C	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 Mkr	ткас түр DE 1 24.993 -37.7	^E 123456 ^E M T P NNNN 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right
MSG Keysight S XY Marker ' 10 dB/div Log 10 0	pectrum Analyzer - Swept RF 50Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain:	ast C	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwr >100/100	TRAG TYP DE 1 24.991 -37.7	E 123456 E P 23456 E P 234566 E P 2345666 E P 2345666 E P 2345666 E P 2345666666666666666666666666666666666666	Peak Search Next Peak Next Pk Right
MSG Keysight S (4) Marker 1 10 dB/div 10 0 .000	Pectrum Analyzer - Swept RF 50Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain:	ast P	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwr >100/100 MKr	TRAG TYP DE 1 24.999 -37.7(E 123456 E P 23456 E P 234566 E P 2345666 E P 2345666666666666666666666666666666666666	Peak Search Next Peak Next Pk Right Next Pk Left
MSG Keysight S (4) Marker 1 10 0 10 0 -10 0	Pectrum Analyzer - Swept RF 50Ω 1 24.99849884 Ref 20.00 dB	SA AC 9962 GHz PNO: F IFGain:	ast C	Trig: Free #Atten: 30	SE:INT Run 0 dB	Avg Type Avg Hold:	ALIGN AUTO I: Log-Pwr >100/100 MIKr	TRAC TYP DE 1 24.999 -37.7(E 123456 E MANNAN TP NANNA 85 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
MSG Keysight S (A) Marker 1 10 0 10 0 -10 0 -20 0	рестиш Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	sA AC 9962 GHz PNO: F IFGain: m	ast C	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAO TYP DE 1 24.999 -37.7(E 123456 E MANNAN TP NANN 85 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
MSG Keysight S (4) Marker 1 10 0 10 0 -10 0 -20 0	ресtrum Analyzer - Swept RF 50 Ω 1 24.998849884 Ref 20.00 dB	sA AC 9962 GHz PNO: F IFGain: m	ast O	Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYP DE 1 24.999 -37.7(E 1 2 3 4 5 6 E M	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
MSG Keysight S (4) Marker 1 10 0 10 0 -10 0 -20 0 -30 0	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	sa AC I9962 GHz PNO: F IFGain: m		Trig: Free #Atten: 30	SE:INT Run D dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.999 -37.7(E]] 2 3 4 5 6 E M	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
MSG Keysight S (4) Marker 1 10 0 10 0 -10 0 -20 0 -30 0	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC I9962 GHz PNO: F IFGain: Im		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.999 -37.7(E]] 2 3 4 5 6 E M 44444444 T P NANN N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
MSG Keysight S (4) Marker 1 10 0 10 0 -10 0 -20 0 -30 0 -40 0	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: m		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE 1 24.999 -37.7(E]] 2 3 4 5 6 E M	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S (24) Marker 1 10.0 0.00 -10.0 -20.0 -30.0 -40.0	pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC I9962 GHz PNO: F IFGain: IM		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M 44474444 T P NANN N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S 20 Marker 1 10 0 10 0 -10 0 -20 0 -40 0 -50 0 10 1 -50 0 10 1 -50 0 -10 1 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10	Pectrum Analyzer - Swept RF 50 Q 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: SM		Trig: Free #Atten: 30	SE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M 400 WWWW T P N N N N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S 20 Marker 1 10 0 10 0 -10 0 -20 0 -40 0 -40 0 -50 0 -50 0 -50 0	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: SM		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M WWWWW TP N NN N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S A A A A A A A A A A A A A	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M 4447444 T P NAN N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S Marker 1 1000 1000 -1000 -2000 -4000 -4000 -5000 -5000 -5000 -700	Pectrum Analyzer - Swept RF 50 Q 1 24.99849884 Ref 20.00 dB	SA AC ISPG2 GHz PN0: F IFGain: M		Trig: Free #Atten: 30	SE:INT Run) dB	Avg Type Avg Hold:	ALIGN AUTO I: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M 400 WWW T P N N N N 3 5 GHz 62 dBm 0.1 -26 56 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S A Marker 1 1000 1000 -1000 -2000 -4000 -4000 -4000 -5000 -4000 -70.0	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: M		Trig: Free #Atten: 30	SE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M WWWWW TP N NN N 3 5 GHz 62 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
MSG Keysight S A Marker 1 1000 1000 -1000 -2000 -4	Pectrum Analyzer - Swept RF 50 Ω 1 24.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: m		Trig: Free #Atten: 30	SE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE DE 1 24.999 -37.70	E]] 2.3 4 5 6 E M 4447444 T P NAN N 3 5 GHz 62 dBm 0.1 -26 56 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi
MSG Keysight S Marker 100 100 100 .000 <tr td=""></tr>	Pectrum Analyzer - Swept RF 50 Ω 1 224.99849884 Ref 20.00 dB	SA AC 19962 GHz PNO: F IFGain: Sm		Trig: Free #Atten: 30	SE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYPE 1 24.999 -37.70	E]] 2 3 4 5 6 E M 4000000000 T P NANN N 3 5 GHz 62 dBm 0.1 -26 56 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi More 1 of 2
MSG Keysight S Marker 100 100 100 -100 -200 -400 -500 -600 -700 -700 Start 2.4 #Res BW	Pectrum Analyzer - Swept RF 50 Ω 1 224.99849884 Ref 20.00 dB 	SA AC 19962 GHz PNO: F IFGain: Sm		Trig: Free #Atten: 30	SE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MIKr weep 58	TRAC TYPE 1 24.999 -37.70 -37.	E]] 2.3 4 5 6 E M 400000000 T P NANN N 3 5 GHz 62 dBm 0.1 -26 56 dBm 1 0.1 -26 56 dBm 1 1 0.1 -26 56 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi Nore 1 of 2

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

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Keysight Spectrum Analyzer - Swept SA			
₩ RF 50 Ω AC Marker 1 24.97372987432	9 GHz	ALIGN AUTO Avg Type: Log-Pwr Avg Held:>100(100 TRACE 12.3.4.5.6 Type: Minaanaaaaa	Peak Search
10 dB/div Ref 20.00 dBm	PNO: Fast (Hg. Free Run IFGain:Low #Atten: 30 dB	Mkr1 24.973 7 GHz -37.356 dBm	Next Peak
10.0			Next Pk Right
-10.0			Next Pk Left
-20.0		DL1-26.04 dBm	Marker Delta
-40.0	a la de la contracta de la contraction de la c		Mkr→CF
60.0			Mkr→RefLv
Start 2.48 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Stop 25.00 GHz Sweep 58.00 ms (30000 pts)	More 1 of 2
MSG		STATUS	

TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL



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Report No.: AGC02802180601FE05 Page 33 of 81



Keysight S	Spectrum Analyzer - Swept S	SA .							
<mark>w</mark> Marker	RF 50 Ω A	553 GH7	SEI	NSE:INT		ALIGN AUTO	TRAC	E 1 2 3 4 5 6	Peak Search
Midi Kel	12.331000333	PNO: Fast	Trig: Free	e Run 0 dB	Avg Hold	:>100/100	TYF Di		
		IFGall:LOW_	#Atten: 0	o dB		Mkr	1 2 397	81 GHz	Next Peak
10 dB/div	Ref 20.00 dBr	m					-56.5	64 dBm	
				Ť					
10.0									Next Pk Right
10.0									
0.00									
									Next Pk Leff
-10.0									
-20.0								DL1 -25,91 dBm	Marker Delta
-30.0									
-40.0									Mkr→CF
-50.0								1	
-60.0			ber state and the			ad Judicities and the stands	. Alternationships		Mkr→RefLv
allowed a	in a far ann an All Charles ann an All Ann an A Ann an Ann an		and the state of the second		A STATE OF A DESCRIPTION	a dia mandri dia dia dia dia dia dia dia dia dia di	nins i data bari siste ni si	n be der Bener bereiten state state	
-70.0									
									More
Start 1.0	0000 GHz						Stop 2.4	000 GHz	1 07 2
#Res BV	V 100 kHz	#VB	W 300 kHz		s	weep 13	4.0 ms (3	0000 pts)	
MSG						STATUS			
									1001
Keysight :	Spectrum Analyzer - Swept S	5A							
Keysight S (X) Marker	Spectrum Analyzer - Swept S	6A AC 7738 GHz	SEI	NSE:INT	Avg Type	ALIGN AUTO	TRAC	E 1 2 3 4 5 6	Peak Search
Keysight S 134 Marker	Spectrum Analyzer - Swept S	AC 7738 GHz PNO: Fast C IFGain:Low	Trig: Free #Atten: 3	NSE:INT e Run 60 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100	TRAC TYF DE	E 1 2 3 4 5 6 PE M P N N N N N	Peak Search
Keysight s Marker	Spectrum Analyzer - Swept S	AC 7738 GHz PNO: Fast IFGain:Low	→ Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 1: Log-Pwr :>100/100 Mkr	TRAC TYF DE 1 24.91	E 1 2 3 4 5 6 E M WWWW P N N N N N 1 4 GHz	Peak Search Next Peak
Keysight : Marker	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBt	AA 7738 GHz PNO: Fast O IFGain:Low	→ Trig: Free #Atten: 3	NSE:INT e Run 10 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mkr	TRAC TYP DE 1 24.91 -37.5	E 1 2 3 4 5 6 E MWWWWW T P NNNNN 1 4 GHz 89 dBm	Peak Search Next Peak
Keysight : Marker 10 dB/div	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBt	AC 7738 GHz PNO: Fast C IFGain:Low M	→ Trig: Free #Atten: 3	NSE:INT e Run 00 dB	Avg Type Avg Hold	ALIGN AUTO 12 Log-Pwr 100/100	TRAC TYF DE 1 24.91 -37.5	E 1 2 3 4 5 6 E M T P NNNNN 1 4 GHz 89 dBm	Peak Search
Keysight : (x) Marker 10 dB/div Log	Spectrum Analyzer - Swept S	AC 7738 GHz PNO: Fast C IFGain:Low m	→ Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 12 Log-Pwr >100/100	TRAC TYP DE 1 24.91 -37.5	E 1 2 3 4 5 6 E M WINNINN P NNNNN 1 4 GHz 89 dBm	Peak Search Next Peak
10 dB/div	Spectrum Analyzer - Swept S	AC T738 GHz PNO: Fast IFGain:Low m	→ Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO ∷ Log-Pwr :>100/100 Mkr	ткас тур 1 24.91' -37.5	E 123456 E M 3 5 6 E M 3 5	Peak Search Next Peak
Marker	Spectrum Analyzer - Swept S	AAC 7738 GHz PNO: Fast C IFGein:Low	→ Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 Mkr	TRAC TYP DE 1 24.91 -37.5	E 23456 M H H H H H H H H H H H H H H H H H H H	Peak Search Next Peak
Marker	Spectrum Analyzer - Swept S	7738 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MIKT	TRAC TYP 1 24.91 -37.5	E 1 2 3 4 5 6 E M WINN N T P NNNN N 1 4 GHz 89 dBm	Peak Search Next Peak Next Pk Right
Keysight 3 Kysight 3 Marker 10 dB/div 0.00 .10.0	Spectrum Analyzer - Swept S	AC 7738 GHz PNO: Fast C IFGain:Low m	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mikr	TRAC TYI DE 1 24.91 -37.5	E 1 2 3 4 5 6 E MWWWW T P NNNNN 1 4 GHz 89 dBm	Peak Search Next Peak Next Pk Right
Keysight 3 K	Spectrum Analyzer - Swept S	AC 7738 GHz PNO: Fast C IFGain:Low m	→ Trig: Fre #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100 Mkr	TRAC TVI DE 1 24.911 -37.5	E 1 2 3 4 5 6 E MWWWW T P NNNN 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight 3 K	Spectrum Analyzer - Swept S	AC T738 GHz PNO: Fast IFGain:Low M	→ Trig: Fre #Atten: 3	nse:int e Run i0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >>100/100 Mkr	TRAC TVI DR 1 24.911 -37.5	E 1 2 3 4 5 6 E MWWWWW P NNNN 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight 3 XH Marker 10.0 10.0 .10.0 .30.0	Spectrum Analyzer - Swept S	AC T738 GHz PNO: Fast IFGain:Low m	→ Trig: Fre #Atten: 3	NSE:INT e Run i0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100 MKr	TRAC TVI DI 1 24.911 -37.5	E 1 2 3 4 5 6 E M WWW W W T P NNNN 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight 3 X Marker 10 dB/div 10 0 -10 0 -20 0 -30 0	Spectrum Analyzer - Swept S	AC T738 GHz PNO: Fast IFGain:Low m	Freig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100 Mkr	TRAC TVI D 1 24.91 -37.5	E 1 2 3 4 5 6 E M WWWWW T P NNNN 89 dBm 0L1 -25.91 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight 3 XX Marker 10.0	Spectrum Analyzer - Swept S	m	→ Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100 Mkr	TRAC TYI DE 1 24.91 -37.5	E 1 2 3 4 5 6 E M WWWWW N T P NN NN N 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight 3 Marker 10 dB/div 10 0 -10 0 -20 0 -30 0 -40 0	Spectrum Analyzer - Swept S	MACONTRACTOR	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100 Mkr	TRAC TVI DI 1 24.91 -37.5	E 1 2 3 4 5 6 E M NNNN P NNNNN 1 4 GHz 89 dBm 0L1 -25 91 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight 3 Marker 10 dB/div 10.0 .0.00 .10.0 .20.0 .30.0 .40.0 .50.0 .11.1	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr	MACONTRACTOR	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 Mkr	TRAC TYI DI 1 24.91 -37.5	E 1 2 3 4 5 6 E MINISTREE P NINNINN 1 4 GHz 89 dBm 0L1 -25.91 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta MkrCF
Keysight 3 Marker 10 dB/div 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr	A 7738 GHz PNO: Fast IFGain:Low m	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 MKr	TRAC TYI DI 1 24.91 -37.5	E 1 2 3 4 5 6 E M NINNN 1 4 GHz 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight 3 Marker 10 dB/div 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr	A 7738 GHz PNO: Fast IFGain:Low M	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 MKr	TRAC TYI DI 1 24.91 -37.5	E 1 2 3 4 5 6 E MINISTRI P NINNINN 1 4 GHz 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight 3 Marker 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr	A 7738 GHz PNO: Fast IFGain:Low M	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100 Mkr	TRAC TYI D 1 24.91 -37.5	E 1 2 3 4 5 6 E MWWWWW P NNNN 89 dBm DL1 -25.91 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight 3 Marker 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr	m	→ Trig: Free #Atten: 3		Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100 Mkr	TRAC TVI DB 1 24.91 -37.5	E 1 2 3 4 5 6 E M WWWWW P NNNN 89 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvt
Keysight 10 dB/div 10.0 - 10.0 - .000 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .10.0 - .20.0 - .40.0 - .40.0 - .40.0 - .40.0 - .50.0 - .40.0 - .40.0 - .40.0 - .40.0 - .40.0 - .50.0 - .40.0 - .40.0 - .40.0 - .40.0 - .50.0 - <td>Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr </td> <td>AC T738 GHz PNO: Fast C IFGain:Low m</td> <td>Trig: Free #Atten: 3</td> <td>NSE:INT</td> <td>Avg Type Avg Hold:</td> <td>ALIGN AUTO E: Log-Pwr >100/100 MKr</td> <td>1 24.91 -37.5</td> <td>E 1 2 3 4 5 6 E M WWWWW P NNNN 1 4 GHz 89 dBm 0L1 -25.91 dBm 1 0L1 -25.91 dBm 1 0L1 -25.91 dBm</td> <td>Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2</td>	Spectrum Analyzer - Swept S RF 50 Ω A 1 24.91143214 Ref 20.00 dBr 	AC T738 GHz PNO: Fast C IFGain:Low m	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr >100/100 MKr	1 24.91 -37.5	E 1 2 3 4 5 6 E M WWWWW P NNNN 1 4 GHz 89 dBm 0L1 -25.91 dBm 1 0L1 -25.91 dBm 1 0L1 -25.91 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

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Report No.: AGC02802180601FE05 Page 36 of 81



📥 Key	sight Spectrum Analyze	er - Swept SA								
L <mark>XI</mark> Moral	RF	50 Ω AC	NU-	SEI	NSE:INT		ALIGN AUTO	TRAC	E 1 2 2 4 5 6	Peak Search
Marr	ker 1 2.39617	9959551 0	PNO: Fast 🕞	Trig: Free	e Run	Avg Hold	:>100/100	TYP		
_			FGain:Low	#Atten: 3	0 dB			DE		Next Peak
							Mkr	1 2.398	18 GHz	Next1 cur
10 dB Log r	3/div Ref 20.	00 dBm						-33.0	25 0 5 11	
10.0										Next Pk Right
0.00										
										Next Pk Left
-10.0										
-2U.U									01.1 . 26.19 dBm	Marker Delta
.30.0									021-20.10 UBI	
00.0										
-40.0										
										IVIKI-)CF
-50.0									<u> </u>	
								بيريد المرال	hu de se austri	
-60.0	negative sector and the sector	water failed and the second		a the second	e a di pla de la divisione		A tradit that the		And a second second second	Mkr→RefLvl
	a desired and the second s	a and the first second seco	aldi i soff a soff an air		and the cost of the second second					
-70.0										
										1 of 2
Start	t 1.0000 GHz		<i>//</i>					Stop 2.4	000 GHz	1012
#Res	s BW 100 kHz		#VBV	¥ 300 kHz		s	weep 13	4.0 ms (3	0000 pts)	
MSG							STATUS			
			_							
🔤 Key	rsight Spectrum Analyze	er - Swept SA		/						
- Key (X) Marl	rsight Spectrum Analyze	r - Swept SA 50 Ω AC	CH-	SEI	NSE:INT		ALIGN AUTO	TRAC	E 11 2 3 4 5 6	Peak Search
🔤 Key L XI Mark	rsight Spectrum Analyze RF Ker 1 24.9812	er - Swept SA 50 Ω AC 235624521	GHz PNO: Fast	SET		Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr :>100/100	TRAC	E E E M W W W W N N N N N N N N N N N N N N N	Peak Search
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Example 10 dB and 10 dB an	sight Spectrum Analyze RF (er 1 24.9812 S/div Ref 20.	r - Swept SA 50 Ω AC 3356245211 1 00 dBm	CHZ PNO: Fast FGain:Low	Trig: Free #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >100/100 MKr	TRAC TYF DE 1 24.98 -38.2	E [] 2 3 4 5 6 E M WWWWW P NNNN 2 GHz 22 dBm 0L1 -26.18 dBm 1 1 1 1 1 1	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl
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The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc.gett.com.

Attestation of Global Compliance



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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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A



Keysight Spectrum Analyzer - Swept SA							
RF 50 Ω AC		SENSE:INT		ALIGN AUTO	TRACE		Peak Search
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Keysight Spectrum Analyzer - Swept SA	08 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwr >100/100	TRACE TYPE DET	123456 MWWWWW PNNNNN 2GH7	Peak Search
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inter Ke LXI	eysight Spo	RF 50	wept SA Ω AC		SE	NSE:INT		ALIGN AUTO			
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Mar Mar 10 d	eysight Spo ker 1 B/div	Ref 20.00	wept SA Ω AC 9860000 C II dBm	HZ PNO: Fast Gain:Low	Trig: Fre #Atten: 3	NSE:INT e Run 60 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100 Mkr	TRAC TYP DE 1 2.399 -36.24	E 123456 E MWWWWW TP NNNN 58 GHz 49 dBm	Peak Search Next Peak
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

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Report No.: AGC02802180601FE05 Page 41 of 81





TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

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Report No.: AGC02802180601FE05 Page 42 of 81



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Keysight Sp Marker 1 10 dB/div	Ref 20.00 dBm	810 GHz PNO: Fast G IFGain:Low	Trig: Free #Atten: 3	NSE:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100 Mkr	ткас тур от 1 24.522 -37.8	E 123456 E MWWWW T P NNNN 2 6 GHz 77 dBm	Peak Search Next Peak
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Marker 1 10 dB/div	RF 50 Ω AC RF 50 Ω AC 24.5226342876 Ref 20.00 dBm	810 GHz PNO: Fast C IFGain:Low	Trig: Free #Atten: 3	vse:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 2:>100/100 Mkr	TRAC TVF DE 1 24.522 -37.8	E 1 2 3 4 5 6 E MWWW T P NNNNN 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right
Marker 1 10 dB/div Log	RF 50 Ω AC RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	NSE:INT ■ Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr :>100/100	TRAC TYF DE 1 24.522 -37.8	6 GHz 77 dBm	Peak Search Next Peak Next Pk Right
Marker 1 Marker 1 10 dB/div Log	RF 50 Ω AC RF 50 Ω AC 24.5226342876 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr >>100/100	TRAC TYF DE 1 24.522 -37.8	6 GHz 7 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Marker 1 Marker 1 10 dB/div Log	RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight Sp Keysight	RF 50 Ω AC RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	E 123456 E M WWWW P WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left
Keysight Sp Marker 1 10 dB/div 10.0 10.0 -10.0 -20.0	RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight Sr Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0	RF 50 Ω AC RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW P WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0	RF 50 Ω AC RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW P WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight Sr Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0	xetrum Analyzer - Swept SA RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	e Run 0 dB	Avg Type Avg Hoid:	ALIGN AUTO E: Log-Pwr >100/100 MIKr	TRAC TYF DE 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW 7 MNNNN 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta
Keysight Sp Marker 1 10 dB/div 10.0 10.0 -10.0 -10.0 -20.0 -30.0 -40.0	xerrum Analyzer - Swept SA RF 50 Ω AC 24.5226342871 Ref 20.00 dBm	810 GHz PNO: Fast IFGain:Low	Trig: Free #Atten: 3	vse:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF D 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW P WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr-CF
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	2012 Transition of the sector	810 GHZ PNO: Fast IFGain:Low	SET Trig: Free #Atten: 3	vse:INT e Run 0 dB	Avg Type Avg Hold	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF D 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW P WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta MkrCF
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	2000 RF 50 Ω AC RF 50 Ω AC 1 24.5226342871 Ref 20.00 dBm	810 GHZ PNO: Fast IFGain:Low	SET Trig: Free #Atten: 3	VSE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF D 1 24.527 -37.8	E 1 2 3 4 5 6 E M WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta MkrCF
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -40.0	RF 50 Ω AC R4 50 Ω AC 24.5226342871 AC AC Ref 20.00 dBm AC AC	810 GHZ PNO: Fast IFGain:Low	SET Trig: Free #Atten: 3		Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF D 1 24,522 -37.8	E 1 2 3 4 5 6 E M WWWWW P WWWWW P OLI -30 27 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight Sp Marker 1 10 dB/div 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 10.1	RF 50 Ω AC RF 50 Ω AC 24.5226342871 AC AC Ref 20.00 dBm AC AC	810 GHZ PNO: Fast IFGain:Low	SET Trig: Free #Atten: 3	vse:INT P Run 0 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF DE 1 24.522 -37.8	E 1 2 3 4 5 6 E M WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight Sp Marker 1 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	RF 50 Ω AC RF 50 Ω AC 24.5226342871 AC AC Ref 20.00 dBm AC AC	810 GHZ PNO: Fast IFGain:Low	SET Trig: Free #Atten: 3	vse:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 MKr	TRAC TYF DE 1 24.52: -37.8	E 1 2 3 4 5 6 E M WWWWW 2 C 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF
Keysight Sign Marker 1 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	RF 50 Ω AC Ref 50 Ω AC Ref 20.00 dBm AC	810 GHZ PNO: Fast IFGain:Low	Antibastan		Avg Type Avg Hold:	ALIGN AUTO E Log-Pwr >100/100 MKr	TRAC TYF DE 1 24.52: -37.8	E 1 2 3 4 5 6 E M WWWWW 2 C 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvt
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Start 2.41	RF 50 Ω AC Ref 20.00 dBm	810 GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 3		Avg Type Avg Hold:	ALIGN AUTO E Log-Pwr >100/100 MKr	TRAC TYF D 1 24.522 -37.8	E 1 2 3 4 5 6 E M WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvt More 1 of 2
Keysight Sp Marker 1 10 dB/div 10.0 10.0 10.0 -10.0 -10.0 -30.0 -40.0 -50.0 -40.0 -70.0 Start 2.43 #Res BW	RF 50 Ω AC Ref 20.00 dBm	810 GHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 3	vse:INT	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr >100/100 Mkr weep 58	TRAC TYF DE 1 24.522 -37.8	E 1 2 3 4 5 6 E M WWWWW 2 6 GHz 77 dBm	Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvt More 1 of 2

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Report No.: AGC02802180601FE05 Page 43 of 81

10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY	The the second	The compliance	® A
TEST MODE	802.11b with data rate 1	C Alexanor of Gou	C Resolution C	^C C

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	3.603	6 8	Pass
Middle Channel	3.183	8	Pass
High Channel	4.231	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	The the The	C The Ford Containt

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-0.036	The Barrie 8 It the Comme	Pass
Middle Channel	-1.293	8 Sussian	Pass
High Channel	-1.199	8	Pass

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Report No.: AGC02802180601FE05 Page 44 of 81

TEST ITEM	POWER SPECTRAL DENSITY	The The Contract	To malance
TEST MODE	802.11n 20 with data rate 6.5	C Manufactor C Augustanolos	C Allestation o
K tempine IK tempine			NO.
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.465	8	Pass
Middle Channel	-0.972	8	Pass
High Channel	-1.083	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	SO		
	TOWER OF ECTRAE DEMOITT	the		
TEST MODE	802.11n 40 with data rate 13.5	The Constance	The the compliance	© A

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-4.849	8	Pass
Middle Channel	-4.789	8	Pass
High Channel	-4.727	8	Pass

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802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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802.11g TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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802.11n 40 TEST RESULT



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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Report No.: AGC02802180601FE05 Page 51 of 81

11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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Report No.: AGC02802180601FE05 Page 52 of 81

11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

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trum Analyzer

11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	2 H 2 3		
216~960	200	3		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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EUT		ac1x1+BT module			Model Name		SA		
Temperatur	'e	25°C	25°C			nidity	55.4%	C	
Pressure		960hPa	960hPa				Normal V	oltage	(Annoise Compliance
Test Mode		802.11b with date rate 1 2412MHZ			ntenna		Horizonta		
	[dB(µV/m 100 90 80 70 60 70 60 70 60 70 60 80 70 60 80 70 60 80 70 60 80 70 60 10 10 0 30 30.	0]	100. 00	Frequency		500. 00	1000. 0 [MHz]		
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.610	₩ [™] H	5.6	17.4	23.0	40.0	17.0	Pass	150.0	213.8
75.590	H	8.1	12.9	21.0	40.0	19.0	Pass	200.0	123.9
177.925	Н	14.9	14.8	29.7	43.5	13.8	Pass	150.0	106.6
191.990	H	15.7	13.7	29.4	43.5	14.1	Pass	100.0	15.1
215.755	C The Hand Contract	14.8	14.3	29.1	43.5	14.4	Pass	200.0	267.9
837.525	н	5.3	29.4	34.7	46.0	11.3	Pass	150.0	71.6

RADIATED EMISSION BELOW 1GHZ

RESULT: PASS

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Report No.: AGC02802180601FE05 Page 55 of 81

EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical
CC 3	0.00 50.00 100.00 Fre	500.00	1000.0 [ИНz]

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.580	V	6.1	17.4	23.5	40.0	16.5	Pass	100.0	342.9
74.135	V V	8.0	13.2	21.2	40.0	18.8	Pass	200.0	305.2
137.185	V	7.0	16.6	23.6	43.5	19.9	Pass	150.0	143.3
167.740	V	11.1	16.1	27.2	43.5	16.3	Pass	200.0	268.8
194.415	V	9.7	13.6	23.3	43.5	20.2	Pass	200.0	268.0
878.750	• Vale	5.5	29.9	35.4	46.0	10.6	Pass	200.0	53.4

RESULT: PASS

Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.063	45.96	7.12	53.08	74	-20.92	peak
4824.040	41.63	7.12	48.75	54	-5.25	AVG
7236.033	42.05	9.84	51.89	74	-22.11	peak
7236.024	38.16	9.84	48	54	-6	AVG
Atlestation	C allestation of	Attestan	0			litze
					The second se	- Hance
Remark:			litter	T.	Complian	E Global Contr
Factor = Ante	enna Factor + Ca	ble Loss – F	Pre-amplifier.	C A Jon of Glov	C Steal	ion o

the second se			
EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- value Type
4824.118	45.92	7.12	53.04	74	-20.96	peak
4824.037	38.16	7.12	45.28	54	-8.72	AVG
7236.054	42.95	9.84	52.79	74	-21.21	peak
7236.070	36.99	9.84	46.83	54	-7.17	AVG
interior O	Colorad Colorad Colorad	the valion of Giu	-C Anton	G		
emark:					HZ.	
Remark: actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		ALL STREET	in ce

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- M62		CO. CO.	EN contre
EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.069	45.93	7.18	53.11	74	-20.89	peak
4874.054	41.86	7.18	49.04	54	-4.96	AVG
7311.040	40.58	9.86	50.44	74	-23.56	peak
7311.102	38.41	9.86	48.27	54	-5.73	AVG
Attestation	C antestation of	Attestar				actill
					The second se	A Mance
Remark:				TF _	Complian	E 3 Clobal Con.
actor = Ante	enna Factor + Ca	able Loss –	Pre-amplifier.	C & Fond Cla	(C) And a start of the start of	lion o.

	-11123	MZ. CO	
EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.109	49.13	7.18	56.31 🧄	74	-17.69	peak
4874.025	42.56	7.18	49.74	54	-4.26	AVG
7311.033	41.91	9.86	51.77	74	-22.23	peak
7311.095	37.16	9.86	47.02	54	-6.98	AVG
					F. Sta	
			-01	The termplance	The al Comp	C anostali
emark:	17	-mi	the same	F of Global	C Station of Give	
actor = Ante	enna Factor + Ca	ble Loss – P	re-amplifier.	testelle	Aller	

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Report No.: AGC02802180601FE05 Page 58 of 81

EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.048	46.91	7.24	54.15	74	-19.85	peak
4924.080	42.65	7.24	49.89	54 🔬	-4.11	AVG 🥢
7386.074	45.81	9.92	55.73	74	-18.27	peak
7386.093	38.12	9.92	48.04	54	-5.96	AVG
T	Comp. The com	1101 H 3	Noba Colt."	statu	Attes	
C tation of Gu	C Stand Glov	(B) astation o				
Remark:	Allest				100	
Factor = Ante	enna Factor + Ca	ble Loss – F	Pre-amplifier.	1	13 notionce	The Compliant

EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Margin (dB) -21.01 peak
(dB) -21.01 peak
-21.01 peak
0.84 AV/G
-9.04 AVG
-23.87 peak
-8.81 AVG
Mana"
12 3

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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Report No.: AGC02802180601FE05 Page 60 of 81

12.3. TEST RESULT

EUT	ac1x1+BT module	Model Name	SA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK

AV

RESULT: PASS

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