FCC Test Report

Report No.: AGC05734151201FE06

FCC ID	:	SMCP1
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	JmGO Smart Portable Theater
BRAND NAME	:	JmGO
MODEL NAME	:	P1 (Series model name please see page 4)
CLIENT	:	SHENZHEN HOLATEK CO., LTD
DATE OF ISSUE	:	Mar.01, 2016
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.407 KDB 789033 D02
REPORT VERSION	:	V1.0



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar.01, 2016	Valid	Original Report

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I. VERIFICATION OF CC			
Applicant	SHENZHEN HOLATEK CO., LTD		
Address	1001#, Building 4, Keyuan Road, Kexing Science Park, Nanshan, Shenzhen, China		
Manufacturer	osunny (Huizhou) Innovation Electronic Technology Co.,Ltd		
Address	44&45 Building, the Seventh Zone Daxin Grounp, Shuguang Road, Chenjiang Town, Huizhou, Guangdong Province, P.R. China		
Product Designation	JmGO Smart Portable Theater		
Brand Name	JmGO		
Test Model	P1		
Series Model	P2, P3, P4, P5, P6, P1S, P2S, P3S, P4S, P5S, P1 Pro, P2 Pro, P3 Pro, P4 Pro, P5 Pro, P1S Pro, P2S Pro, P3S Pro, P4S Pro, P5S Pro, C1, C2, C3, C4, C5, V1, V2, V3, V4, V5		
Model Difference	All the same except the model name.		
Date of test	Dec.29,2015 to Dec.31,2015		
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 C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Max 2na Tested by Max Zhang(Zhang Mar.01, 2016 Reviewed by Rock Huang(Huang Dinglue) Mar.01, 2016 Approved by Solger Zhang(Zhang Hongyi) Mar.01, 2016

Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "client". It is designed by way of utilizing the OFDM technology to achieve the system operation.

Operation Frequency	5150 MHz~5250MHz;5725 MHz~5825MHz
Output Bower	IEEE 802.11a20:16.16Bm IEEE 802.11n(40):13.01dBm;
Output Power	IEEE802.11n(20):15.84Bm
Modulation	11a: 16QAM, 64QAM,128QAM, 256QAM with OFDM
Modulation	11n: BPSK, QPSK, 16QAM, 64QAM, OFDM
Number of channels	13
Hardware Version	1.1.0
Software Version	1.1.5
Antenna Designation	Integrated Antenna(Main), Integrated Antenna(Assistant)
Number of transmit chain	2
Antenna Gain	1.5dBi(Main), 1.5dBi(Assistant)
Power Supply	DC 11.1V by battery or DC 13.6V by adapter

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
	36	5180 MHz		149	5745 MHz
	38	5190 MHz		151	5755 MHz
5150 GHz~ 5250GHz	40	5200 MHz	5725 GHz∼ 5850GHz	153	5765 MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165 For 40MHZ bandwidth system use Channel 38,46,151,159

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

This submittal(s) (test report) is intended for **FCC ID: SMCP1** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20	36,40,44,48,149,153,157,161,165	36,48, 149, 165	OFDM	6/6.5
802.11n40	38,46,151,159	38,46, 151,159	OFDM	13.5

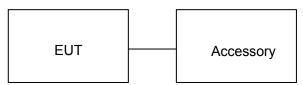
Note:

- 1. The EUT has been set to operate continuously on tested channel 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.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark	
1	JmGO Smart Portable Theater	P1	SMCP1	EUT	
2	2 Adapter RJ-AS136420		DC 13.6V	Accessory	
3	PC	SONY	E1412AYCW	A.E	

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.		
Location Building D, Baoding Technology Park,Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.			
FCC Registration No. 371540			
Description The test site is constructed and calibrated to meet the FCC requirements documents ANSI C63.4:2009.			

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016	
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016	
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016	
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016	
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016	
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A	
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016	
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016	
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 6, 2015	June 5, 2016	
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016	

	Conducted Emission Test Site								
Name of Equipment	Manufacturer Model Number Serial Number		Last Calibration	Due Calibration					
EMI Test Receiver	 Rohde & Schwarz 	ESCI	101417	July 4, 2015	July 3, 2016				
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016				
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016				
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016				
Shielded Room	CHENGYU	843	PTS-002	June 6,2015	June 5,2016				

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

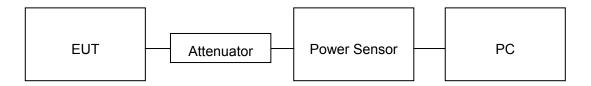
For average power test:

- 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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION								
Frequency (MHz)	Average Power Chain 0(dBm)Average Power Chain 1(dBm)Average Power Total(dBm)Applicable Limits (dBm)Pass or								
5180	13.24	13.06	16.16	24	Pass				
5240	13.18	12.96	16.08	24	Pass				
5745	11.25	11.12	14.20	30	Pass				
5825	11.34	11.21	14.29	30	Pass				

	LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION								
Frequency (MHz)	Pass or								
5180	12.98	12.67	15.84	24	Pass				
5240	12.84	12.73	15.80	24	Pass				
5745	10.87	10.65	13.77	30	Pass				
5825	10.74	10.48	13.62	30	Pass				

	LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION								
Frequency (MHz)	Average Power Chain 0(dBm) Average Power Chain 1(dBm) Average Power Total(dBm) (dBm) Pass or I								
5190	10.16	9.84	13.01	24	Pass				
5230	10.06	9.65	12.87	24	Pass				
5755	9.43	9.12	12.29	30	Pass				
5795	9.36	9.27	12.33	30	Pass				

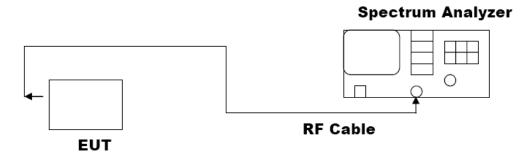
8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on operation frequency individually.
- 3. Set RBW = 100kHz.
- 4. Set the VBW \geq 3*RBW. Detector = Peak. Trace mode = max hold.
- 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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



8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION						
Applicable Limits	Applicable Limits					
	Test Da	Criteria				
	5745MHz	15.75	PASS			
>500KHZ	5825MHz	PASS				

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION							
Applicable Limits	Applicable Limits						
	Test Da	Criteria					
	5745MHz	17.56	PASS				
>500KHZ	5825MHz	17.03	PASS				

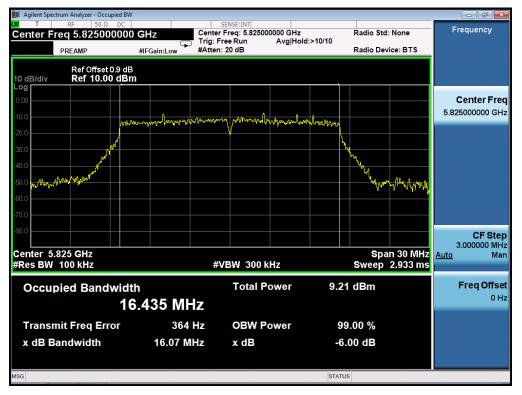
LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION							
Applicable Limits	Applicable Limits						
	Test Da	Criteria					
	5755MHz	35.21	PASS				
>500KHZ	5795MHz	35.15	PASS				



802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz

TEST PLOT OF BANDWIDTH FOR 5825MHz

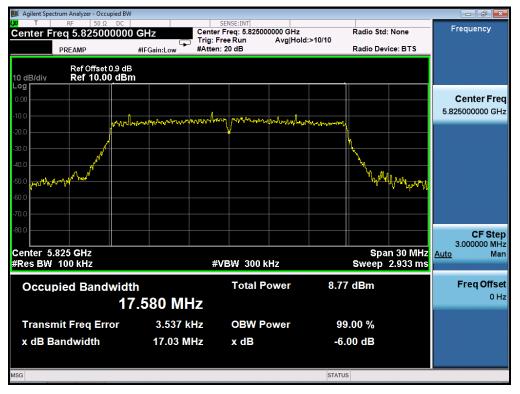


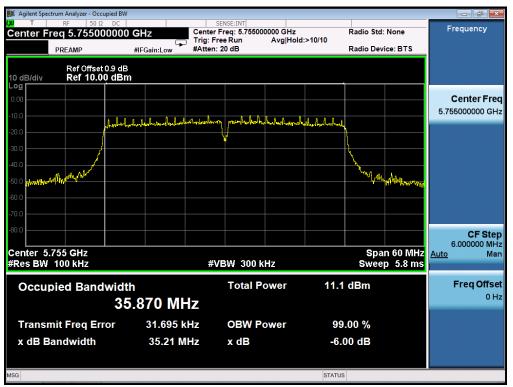


802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz

TEST PLOT OF BANDWIDTH FOR 5825MHz

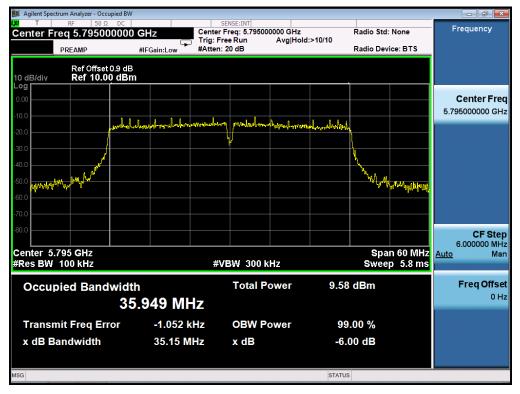




802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz

TEST PLOT OF BANDWIDTH FOR 5795MHz



9. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

9.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

9.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

9.4 LIMITS AND MEASUREMENT RESULT

	LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION								
Frequency (MHz)	Power density Chain 0 (dBm/MHz)	Power density Chain 1 (dBm/MHz)	Chain 1 Total Applicable Linnis						
5180	1.36	1.16	4.27	11	Pass				
5240	1.27	1.08	4.19	11	Pass				
Frequency (MHz)	Power density Chain 0 (dBm/500kHz)	Power density Chain 1 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail				
5745	0.62	0.45	3.55	30	Pass				
5825	0.58	0.36	3.48	30	Pass				

	LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION								
Frequency (MHz)	Power density Chain 0 (dBm/MHz)	Chain 0 Chain 1 Total Applicable Limits Pass							
5180	1.02	0.84	3.94	11	Pass				
5240	0.95	0.76	3.87	11	Pass				
Frequency (MHz)	Power density Chain 0 (dBm/500kHz)	Power density Chain 1 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail				
5745	-0.35	-0.61	2.53	30	Pass				
5825	-0.28	-0.53	2.61	30	Pass				

	LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION								
Frequency (MHz)	Power density Chain 0 (dBm/MHz)	Pass or Fail							
5190	-1.62	-1.84	1.28	11	Pass				
5230	-1.71	-2.06	1.13	11	Pass				
Frequency (MHz)	Power density Chain 0 (dBm/500kHz)	Power density Chain 1 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail				
5755	-2.84	-3.65	-0.22	30	Pass				
5795	-3.12	-3.87	-0.47	30	Pass				

10. CONDUCTED SPURIOUS EMISSION

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 EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

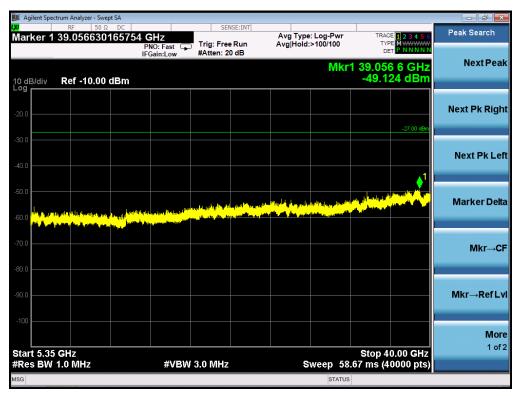
10.4. LIMITS AND MEASUREMENT RESULT

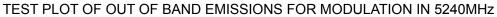
LIMITS AND MEASUREMENT RESULT						
Ampliachta Limita	Measurement Result					
Applicable Limits	Test channel	Criteria				
27dBm	5150MHz-5250MHz	PASS				
17dBm within 5715-5725MHz and 5850-5860MHz 27dBm outside 5715-5860MHz	5725MHz-5825MHz	PASS				

📕 Agilent Spectrum Analyzer - Swept SA SENSE:INT Avg Type: Log-Pwr Avg|Hold:>100/100 TRACE 1 2 3 4 5 6 TYPE MWWW DET P NNNN Peak Search Marker 1 849.937248431 MHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB PREAMP Next Peak Mkr1 849.937 MHz -66.069 dBm Ref 0.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta **•**¹ Mkr→CF Mkr→RefLvl More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz MSG STATUS 📕 Agilent Spectrum Analyzer - Swept SA Od № >0.92 UC School and the second Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 TYPE MWWWW DET P NNNNN Mkr1 5.149 58 GHz -50.096 dBm Next Peak 10 dB/div Log Ref -10.00 dBm Next Pk Right Next Pk Left ... فرادا س structure. Marker Delta al hill to Back Mkr→CF Mkr→RefLvl More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

FOR 802.11A20 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz





📕 Agilent Spect	trum Analyzer - Swep									
w Marker 1	RF 50 Ω 718.935473	3387 MH			NSE:INT	Avg Type	: Log-Pwr		CE 123456	Peak Search
	PREAMP		NO: Fast 🖵 Gain:Low	Trig: Free #Atten: 3		Avg Hold:	:>100/100	DI	ET P N N N N N	
10 dB/div	Ref 0.00 dE	3m					Mki	r1 718.9 -66.3	35 MHz 83 dBm	Next Peal
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-30.0									-27.00 dBm	Next Pk Lef
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-90.0										
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#Res BW	100 kHz		#VBW	300 kHz		s		-	0000 pts)	
ISG							STATUS			

Aglient Spectr	rum Analyzer - Sv RF 50	Ω DC		SEI	NSE:INT					
larker 12	2.077781	944549 GI	HZ NO: Fast ⊂	Trig: Free	e Run		e: Log-Pwr :>100/100	TRACE TYPE	123456 MWWW PNNNNN	Peak Search
			Gain:Low	#Atten: 2	0 dB					NextPea
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0 dB/div ^{og}	Rei -10.00									
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tart 1.000									150 GHz	
Res BW 1	1.0 MHz		#VBV	V 3.0 MHz		S	weep 8.00	10 ms (40	0000 pts)	
	1.0 MHz		#VBV	V 3.0 MHz		s	status	10 ms (40	0000 pts)	
Res BW 1		vent SA	#VBV	V 3.0 MHz		5		10 ms (40	0000 pts)	
SG I Agilent Spectr	rum Analyzer - Sv RF 50	Ω DC			NSE:INT		STATUS			Peak Search
G Agilent Spectr	rum Analyzer - Sv RF 50	Ω DC 3984100 (P	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type		TRACE	123456	Peak Search
G Agilent Spectr	rum Analyzer - Sv RF 50	Ω DC 3984100 (P	GHz	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DET	123456 Mwwww PNNNNN	Peak Search
Agilent Spectr	rum Analyzer - Sv RF 50	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456	Peak Search
Agilent Spectr	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 MWWWW PNNNNN 4 GHz	Peak Search Next Pea
Agilent Spectr larker 1 :	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 MWWWW PNNNNN 4 GHz	Peak Search Next Pea
Agilent Spectr	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 MWWWW PNNNNN 4 GHz	Peak Search Next Pea
Agilent Spectr	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 M 9 NNNN 4 GHz 9 dBm	Peak Search Next Pea Next Pk Rig
ic Agilent Spectri	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 M 9 NNNN 4 GHz 9 dBm	Peak Search Next Pea Next Pk Rig
a Agilent Spectra larker 1 1 0 dB/div 0 0 0 0 0 0	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	SEI	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRACE TYPE DE 38.909	123456 M 9 NNNN 4 GHz 9 dBm	Peak Search Next Pea Next Pk Rig
a Agilent Spectra larker 1 1 0 dB/div 0 0 0 0 0 0	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF	GHz NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	123456 M 9 NNNN 4 GHz 9 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo
G del/div	rum Analyzer - Sv RF 50 388.9109365	Ω DC 3984100 C P IF D dBm	GHz NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo
G Agilent Spectra larker 1 1 0 dE/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo
G Agilent Spectra larker 1 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	
G dB/div O dB/div O dB/div O dB/div O dB/div O dB/div O dB/div O dB/div O dB/div O dB/div	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
G Agilent Spectric I Agilent Spectric I I arker 1 I	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
G dB/div	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
is Agilent Spectra arker 1 3 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0
is Agilent Spectric arker 1 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Sv RF 50 38.909363 Ref -10.00	Ω DC 3984100 C P IF D dBm	GHZ NO: Fast Ģ	Trig: Fre #Atten: 2	NSE:INT e Run 0 dB	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPP Det 38.909 -48.35	02 3 4 5 6 MWWWWW P NNNNN 9 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→C Mkr→Ref L
a Agilent Spectr arker 1 a 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Sv RF 50 38.90936; Ref -10.00	Ω DC 3984100 C P IF D dBm	SHZ NO: Fast Gain:Low	Trig: Fre #Atten: 2	NSE:INT	Avg Type Avg Hold	STATUS E: Log-Pwr :>100/100 Mkr1	TRACE TYPE 38.909 -48.35	1 -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm -27.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0

larker 1	RF 50 966.0734			Tries Eres		Avg Type Avg Hold	: Log-Pwr	TV		Peak Search
	PREAMP	1	PNO: Fast 😱 FGain:Low	Trig: Free #Atten: 30		Avginoia	>100/100	DE	E 1 2 3 4 5 6 E M WWWWW P N N N N N	
	Ref 0.00 (dBm					Mkr	1 966.0	73 MHz 42 dBm	NextPea
odB/div										
10.0										Next Pk Rig
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0.0 <mark>Antohom</mark>		in in the second state	n fille fran proposition Algebra in georgeo anna fil	parahin ini kata ma Tana ini kata manga	n an the second seco	A CONTRACTOR AND A CONTRACTOR OF A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACT A CONTRACTOR AND A CONTRACT		ang aga ang ang ang ang ang ang ang ang		
0.0										Mkr→RefL
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tart 20.4							· · · · ·	04-m 4 /		1 0
	MHz					_			0000 GHz	
Res BW) MHz 100 kHz		#VBW	300 kHz		s	weep 93.			
			#VBW	300 kHz		S	weep 93. status			
Res BW	100 kHz ctrum Analyzer - Sv		#VBW		ICE-INT	S				
Res BW	100 kHz	Ω DC 815520 G	iHz	SEN		Avg Type	STATUS	33 ms (4	0000 pts)	Peak Search
Res BW	100 kHz ctrum Analyzer - Sw RF 50	Ω DC 815520 G		SEN	Run		STATUS :: Log-Pwr :>100/100	33 ms (4	20000 pts)	Peak Search
Res BW G Agilent Spe arker 1	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	2 3 4 5 6 E 1 2 3 4 5 6 E MWWWW T P NNNN 62 GHz	Peak Search
Res BW G Agilent Spe arker 1	100 kHz ctrum Analyzer - Sw RF 50	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	20000 pts)	Peak Search
Agilent Spe arker 1 0 dB/div	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	2 3 4 5 6 E 1 2 3 4 5 6 E MWWWW T P NNNN 62 GHz	Peak Search Next Pea
Agilent Spe arker 1	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	2 3 4 5 6 E 1 2 3 4 5 6 E MWWWW T P NNNN 62 GHz	Peak Search Next Pe
Agilent Spe arker 1 0 dB/div	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pe
Res BW G Agilent Spe arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pe Next Pk Rig
Res BW G Agilent Spe arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pea Next Pk Rig
Res BW G Agilent Spe arker 1 0 dB/div 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run	Avg Type	STATUS :: Log-Pwr :>100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pea Next Pk Rig Next Pk Lu
G Agilent Specific Agilent Agilent Specific Agilent Agi	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type	E: Log-Pwr >100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pea Next Pk Rig
G Agilent Specific Agilent Agilent Specific Agilent Agi	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C) Trig: Free	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts) ■ 2 3 4 5 6 ■ M ■ M ■ M ■ M ■ M ■ M ■ M ■ M	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW Agilent Spe arker 1 dB/div g 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De
Agilent Spe Agilent Spe arker 1 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW G Agilent Spe D D D D D D D D D D D D D D D D D D D	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW G Agilent Spe G Agilent	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr-4
Res BW	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-d
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW Agilent Spe arker 1 add div d dd/div d d/div d d/	100 kHz ctrum Analyzer - Sv RF 50 1.947620	Ω DC 815520 G	HZ PNO: Fast C	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→Ref L
Res BW G Agilent Spe C Agilent	100 kHz ctrum Analyzer - Su RF 50 1.947620 Ref -10.00	Ω DC 815520 G	HEZ PNO: Fast Gain:Low	SEN Trig: Free #Atten: 20	Run) dB	Avg Type Avg Hold	E: Log-Pwr >100/100	33 ms (4	.715 GHz	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-d

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

📕 Agilent Spe 🛿	ctrum Analyzer - S	Ω DC		SE	NSE:INT					
larker 1	5.718325		PNO: Fast 🕞	Trig: Fre			e: Log-Pwr :>100/100	TYPE	123456 MWWWWW PNNNNN	Peak Search
			IFGain:Low	#Atten: 2	0 00		Mkr1 5.71	8 325 8	83 GHz	Next Pea
0 dB/div	Ref 10.00) dBm						-28.10	2 dBm	
										Next Pk Rig
0.00										Next 1 King
10.0										
20.0									-17.00 dBm	Next Pk Le
			♦ ¹							
0.0 <mark>1944 0.00</mark>	a start of the sta			1.		to the set of the	nation why had not	1.11.11.11		Marker De
to.o <mark>.ik.niqili,k</mark>	a la de la constantia de l	ng dikana kang pang pang	<mark>, and a subble la serie</mark>	<mark>الطلقان وماؤلاط والدويل</mark>	ريمان بير _ا مر _و يلال الأد	<mark>dinahatan dari dari dari dari dari dari dari dari</mark>	i ta <mark>da ang kadalan ki k</mark> a _d a	<mark>a ja ko da ta atiki s</mark> a	<mark>երի չեն հերբին</mark> ՝	
50.0										Mkr→0
~ ~										IVIKI —
io.o										
70.0										Mkr→RefL
30.0										
										Ma
	15000 GHz		#\/B\/	V 3 0 MUz					000 GHz	1 0
	15000 GHz 1.0 MHz		#VBV	V 3.0 MHz		s	Sto weep 2.667			1 o
Res BW	1.0 MHz	wept SA	#VBV	V 3.0 MHz		S	weep 2.667			
Res BW	1.0 MHz ctrum Analyzer - S RF 50	Ω DC		SE	NSE:INT	Avg Type	status status e: Log-Pwr	ms (40	0000 pts)	
Res BW	1.0 MHz ctrum Analyzer - S	Ω DC 748819 C		SE	NSE:INT	Avg Type	status	ms (40	0000 pts)	Peak Search
Res BW	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 MMMMMM P NNNN 75 GHz	Peak Search
Res BW GG Agilent Special Iarker 1 0 dB/div	1.0 MHz ctrum Analyzer - S RF 50	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	0000 pts)	Peak Search
Res BW Agilent Special Agilent Special Iarker 1 O dB/div	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 MMMMMM P NNNN 75 GHz	Peak Search Next Pe
Res BW	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 MMMMMM P NNNN 75 GHz	Peak Search Next Pe
Res BW	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 MMMMMM P NNNN 75 GHz	Peak Search Next Pe Next Pk Rig
Res BW Galarker 1 Gala	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 M 23456 M 23566 M 23456 M 234566 M	Peak Search Next Pe Next Pk Rig
Res BW Galarker 1 Call a Call	1.0 MHz ctrum Analyzer - S RF 50 5.859952	Ω DC 748819 (GHZ PNO: Fast Ģ	SE	NSE:INT	Avg Type Avg Hold	Example 2.667	TRACE TYPE DET 9 952	123456 M 23456 M 23566 M 23456 M 234566 M	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz ctrum Analyzer - S RF 50 5.859952 Ref 10.00) dBm	GHZ PNO: Fast Gain:Low	Trig: Fre #Atten: 2	e Run 0 dB	Avg Type Avg Hold	STATUS STATUS E: Log-Pwr :>100/100 Mkr1 5.855	ткасе туре 9 952 3 -33.48	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	E: Log-Pwr >100/100 Mkr1 5.85	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 7 6 7 6 M 2 3 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Peak Search Next Pe Next Pk Rig Next Pk L
Res BW aa a a a a a a a a a a a a a a a a a	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	STATUS STATUS E: Log-Pwr :>100/100 Mkr1 5.855	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 7 6 7 6 M 2 3 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Peak Search Next Pe Next Pk Rig Next Pk L
Res BW a a a a a a a a a a a a a a a a a a a	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	E: Log-Pwr >100/100 Mkr1 5.85	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 7 6 7 6 M 2 3 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Peak Search Next Pe Next Pk Rig Next Pk Lu
Res BW 33 4 Agilent Spec 10 Agilent Spec 0 dB/div	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	E: Log-Pwr >100/100 Mkr1 5.85	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 6 M 2 6 6	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Res BW sa (Agilent Specific Agilent Agil	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	E: Log-Pwr >100/100 Mkr1 5.85	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 6 M 2 6 6	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De
Res BW sg Agilent Spec larker 1 0 dB/div og 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	E: Log-Pwr >100/100 Mkr1 5.85	7 ms (40 Trace Type Jen 9 952 -33.48	1 2 3 4 5 6 M 2 3 6 6 M 2 6 6	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	2 DC 748819 C 0 dBm	SHZ PNO: Fast IFGain:Low	Trig: Free #Atten: 2	NSE:INT e Run to dB	Avg Type Avg Hold	Status St	7 ms (40 TRACE Det 9 952 1 -33.48	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→Ref L
Res BW sci (Agilent Species (Agilent Species	1.0 MHz ctrum Analyzer - 5 RF 50 5.859952 Ref 10.00	2 DC 748819 C 0 dBm	SHZ PNO: Fast FGain:Low	Trig: Free #Atten: 2	NSE:INT		Status St	7 ms (40 Trace Type Jen 9 952 -33.48	0000 pts)	

📕 Agilent Spectr	rum Analyzer - Swe							_		
Marker 1	RF 50 Ω 38.820433		GHz NO: Fast	Trig: Free		Avg Type Avg Hold	:: Log-Pwr :>100/100	TYP	123456 MWWWW	Peak Search
0 dB/div	Ref 10.00 (IF	Gain:Low	#Atten: 2	0 dB		Mkr	1 38.820	4 GHz 4 dBm	Next Peal
og 1.00										Next Pk Righ
20.0										Next Pk Let
30.0									-27.00 dBm	Marker Delt
40.0				. Juliou blag villen om bli		ih in ha laa	an that have provided in the second			Mkr→Cl
60.0 (A. 1994) 70.0				. معروفة معروفة المعروفة المع	and the second secon	6 1. 26, 24, 2. 4.	a sin an			Mkr→RefLv
80.0 Start 5.86 (Stop_4	0.00 GHz	Mor 1 of:
#Res BW 1	.0 MHz		#VBN	/ 3.0 MHz		s	weep 58	.67 ms (4	0000 pts)	

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz

Next Pk Right 100 -66.157 dBm 100 -60.157 dBm 100 -60.157 dBm 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 100 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000 101 -67.000	📁 Agilent Spectrum Analyzer - Swep					
PREAMP IFGBILLOW Arten: 30 dB Mkr1 678.728 MHz -66.157 dBm Next Peak 100 Bit div Ref 0.00 dBm -66.157 dBm Next Pk Right -00	Marker 1 678.727968	8199 MHz PNO: Fast	Trig: Free Run		TYPE M WWWWW	Peak Search
10.0 Image: Control of the set	10 dB/div Ref 0.00 dB		#Atten: 30 dB	Mki	1 678.728 MHz	Next Peak
-300 .2700 dbm Next Pk Left -300 .2700 dbm Next Pk Left -400						Next Pk Right
-500 -500 -500 -500 -500 -500 -500 -500					-27.00 dBm	Next Pk Left
 -60.0 -70.0 	-40.0					Marker Delta
State State State State State Mkr→RefLv -30.0 <t< td=""><td></td><td></td><td></td><td>1</td><td></td><td>Mkr→CF</td></t<>				1		Mkr→CF
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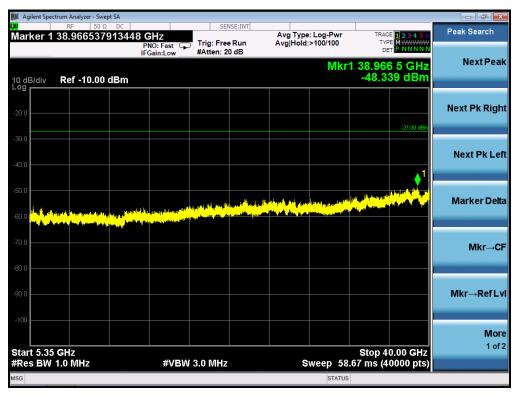
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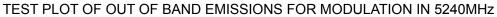
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Agilent Spectrum Analyzer - Swept SA	555 GHz	SENSE:INT	Sweep 2.6 status Avg Type: Log-Pwr Avg Hold:>100/100	67 ms (40000 pts)	Peak Search
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📕 Agilent Spectrum Analyzer - Swept SA Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search TYPE MWWWW DET P NNNN Marker 1 794.282107053 MHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB PREAMP Mkr1 794.282 MHz -65.951 dBm Next Peak Ref 0.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz MSG STATUS 📕 Agilent Spectrum Analyzer - Swept SA Od № >0.0.2 UC School and the schol and the schoo Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 TYPE MWWWW DET P NNNNN Next Peak Mkr1 5.149 17 GHz -48.871 dBm 10 dB/div Log Ref -10.00 dBm Next Pk Right Next Pk Left a different of I. all amore Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

FOR 802.11N20 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz





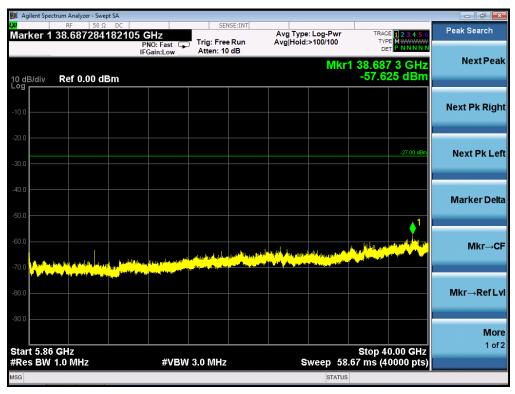
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Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz ctrum Analyzer - 5 38.76209 Ref -10.0	0 Ω DC 97802445 (P IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (40	0000 pts) 2 3 4 5 6 P NNNN 2 1 GHz 3 dBm -27.00 dBm ↓1	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW s G G G G G G G G G G G G G G G G G G	1.0 MHz ctrum Analyzer - 5 38.76209 Ref -10.0	0 Ω DC 97802445 (P IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (40	0000 pts) 2 3 4 5 6 P NNNN 2 1 GHz 3 dBm -27.00 dBm ↓1	Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW Gallent Speed Agilent Speed Callent Res Callent Speed Callent Res Callent Speed Callent Res Cal	1.0 MHz ctrum Analyzer - 5 38.76209 Ref -10.0	0 Ω DC 97802445 (P IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (40	0000 pts) 2 3 4 5 6 P NNNN 2 1 GHz 3 dBm -27.00 dBm ↓1	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz ctrum Analyzer - 5 38.76209 Ref -10.0	0 Ω DC 97802445 (P IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (40	0000 pts) 2 3 4 5 6 P NNNN 2 1 GHz 3 dBm -27.00 dBm ↓1	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW Agilent Speech arker 1 arker 1 add arker 1 ad	1.0 MHz ctrum Analyzer - 5 38.76209 Ref -10.0	0 Ω DC 97802445 (P IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (40	0000 pts) 2 3 4 5 6 P NNNN 2 1 GHz 3 dBm -27.00 dBm ↓1	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW is	1.0 MHz RF - 5 38.76205 Ref -10.0	0 Ω DC 97802445 (P IF	CHZ NO: Fast Gain:Low) Trig: Free	vse:INT	Avg Type Avg Hold	status e: Log-Pwr :>100/100 Mkr1	00 ms (4)	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C

Agilent Spe	RF 50			SENSE:					Peak Search
arker 1	858.1339		Z PNO: Fast 🗔	Trig: Free Ru	in Avg H	Type: Log-Pwr Iold:>100/100	TRAC TYF	E 1 2 3 4 5 6 E M WWWWW T P N N N N N	I eak Search
	PREAMP		Gain:Low	#Atten: 30 dB	3				NextPea
) dB/div	Ref 0.00	Bm				MKI	1 858.1 -66.0	34 MHz 57 dBm	
	Kei 0.00 (
									Next Pk Rig
10.0									Ū
20.0									
								-27.00 dBm	Next Pk Le
30.0									
40.0									
10.0									Marker Del
50.0									
50.0							↓1		Mkr→C
70.0 talkanaya	dana kana kana kana ka	te trackel participation of the	luna di Indeluku oran	an a	weteleletheologi damazati	No.	Leaderly Millingto	<mark>an an tha tha tala</mark>	
(Configuration)	i fan de ante a ser de la definition de la	and the second stands with the	al transmission in a manufate	n a ditta a da an ann an bha an	n a a fair ann an Anna ann an Anna Anna Anna Anna Anna	n fi Narah in State of States of Sta	and a second	A DESCRIPTION OF A DESC	
30.0									Mkr→RefL
90.0									Мо
									1 of
tart 30.0 Res BW			#VBW	300 kHz		Sween 93		0000 GHz	1 of
) MHz 100 kHz		#VBW	300 kHz		Sweep 93.			1 of
Res BW	100 kHz		#VBW	300 kHz					
Res BW			#VBW	300 kHz	INT		33 ms (4	0000 pts)	
Res BW	100 kHz ctrum Analyzer - Sv	Ω DC 732318 G	iHz	SENSE:	Avg		33 ms (4	0000 pts) ≊123455	
Res BW	100 kHz ctrum Analyzer - Sv RF 50	Ω DC 732318 G		SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search
Res BW	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search
Res BW	100 kHz ctrum Analyzer - Sv RF 50	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search
Res BW Agilent Special Agilent Special Iarker 1 0 dB/div	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea
Res BW	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea
Res BW Agilent Special Agilent Special Iarker 1 0 dB/div	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea
Res BW	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rigi
Res BW Galarker 1 Call Content of the second	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	
Res BW Galarker 1 Call Agilent Spec Call Agilent	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rigi
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G	Hz NO: Fast	SENSE:	Avg In Avg H	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Anayzer - Sw RF 50 5.714292 Ref 0.00 (Ω DC 732318 G F dBm	HZ PNO: Fast Gain:Low	SENSE: Trig: Free Rt Atten: 10 dB	Avg in Avg F	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Analyzer - Sv RF 50 5.714292	Ω DC 732318 G IBM	Hz NO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB	Avg in Avg F	STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Anayzer - Sw RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Anayzer - Sw RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz ctrum Anayzer - Su RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del
Res BW	100 kHz ctrum Anayzer - Su RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts) = 123456 = Museum 29 GHz 60 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr-C
Res BW G Agilent Spec arker 1 D dB/div G G C Agilent Spec Agilent Spec G C Agilent Spec G C Agilent Spec G G G G G G G G G	100 kHz ctrum Analyzer - Sw RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain:Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→Ref L
Res BW G Agilent Species arker 1 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz ctrum Analyzer - Sw RF 50 5.714292 Ref 0.00 (Ω DC 732318 G IBM	HZ PNO: Fast Gain: Low	Trig: Free Ru Atten: 10 dB		STATUS Type: Log-Pwr told:>100/100	33 ms (4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr-C

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC		SENSE:INT			
larker 1 5.72346871171		Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW	Peak Search
	PNO: Fast 😱	Atten: 10 dB	Avginola.>100/100	DET	
			Mkr1 5.	723 468 71 GHz	NextPea
0 dB/div Ref 0.00 dBm				-42.778 dBm	
					Next Pk Rig
10.0					Heat I king
20.0				-17.00 dBm	
					Next Pk L
80.0					
10.0				1	
				الماطعية الدالي السيدلي ان	Marker De
	den an ellerendarinde	and to the differences live to first	tin the <mark>balance in the second states and the second states where the second second states are a second states and the second states are second states and the second states are second states</mark>	tealte die die fal tildentationers and tealt	
		المتدأس معارية متقاصفا والترقيطون الو	a and an alter to shirt a provide the state		
wareschuten in the state of the					Mkr→C
70.0					
30.0					Mkr→RefL
0.0					
					Mo
				Stop 5.725000 GHz	1 o
tart 5.715000 GHz					
Res BW 1.0 MHz	#VBW :	3.0 MHz	Sweep 2.	667 ms (40000 pts)	
	#VBW :	3.0 MHz		667 ms (40000 pts)	
Res BW 1.0 MHz	#VBW (Sweep 2.	667 ms (40000 pts)	
Res BW 1.0 MHz	3 GHz	SENSE:INT	Sweep 2. statu: Avg Type: Log-Pwr	667 ms (40000 pts)	Peak Search
Res BW 1.0 MHz SG 4 Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC			Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts)	Peak Search
Res BW 1.0 MHz ag Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC larker 1 5.85706692667	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) s TRACE 1 2 3 4 5 6 TYPE NUMBER DET P NUMBER 857 066 93 GHz	Peak Search
Res BW 1.0 MHz SG 4 Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts)	Peak Search
Res BW 1.0 MHz sg sg Agilent Spectrum Analyzer - Swept SA RF 50 Ω D dB/div Ref 0.00 dBm	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) s TRACE 1 2 3 4 5 6 TYPE NUMBER DET P NUMBER 857 066 93 GHz	Peak Search Next Pea
Res BW 1.0 MHz sg 4 Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC Iarker 1 5.85706692667 DdB/div Ref 0.00 dBm	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea
Res BW 1.0 MHz sg sg Agilent Spectrum Analyzer - Swept SA RF 50 Ω D dB/div Ref 0.00 dBm	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) s TRACE 1 2 3 4 5 6 TYPE NUMBER DET P NUMBER 857 066 93 GHz	Peak Search Next Pea
Res BW 1.0 MHz sg sg (Agilent Spectrum Analyzer - Swept SA RF SD Ω D dB/div Ref 0.00 dBm 0 0.0	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz sg sg Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC larker 1 5.85706692667 0 dB/div Ref 0.00 dBm og 0.0	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz sg (Agilent Spectrum Analyzer - Swept SA RF RF 50 Ω Jarker 1 5.85706692667 0 0 0 0 0 0 0 0 0	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz 3G (Agilent Spectrum Analyzer - Swept SA RF 50 Ω Jarker 1 5.85706692667 0 dB/div Ref 0.00 dBm 9 1 0.0 1 0.0 1 0.0 1 0.0 1	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW 1.0 MHz sg (Agilent Spectrum Analyzer - Swept SA RF SG RF 50 Ω D dB/div Ref 0.00 dBm O 0.0	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW 1.0 MHz sq Agilent Spectrum Analyzer - Swept SA RF 50 Ω Iarker 1 5.85706692667 D dB/div Ref 0.00 dBm 9 0 100 0 100 0 100 0 100 0	'3 GHz PN0: Fast ♀	SENSE:INT	Sweep 2. STATU: Avg Type: Log-Pwr Avg Hold:>100/100	667 ms (40000 pts) ткесе 12345 с тке можето ост р милим 857 066 93 GHz -64.702 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De
Res BW 1.0 MHz sq sq Agilent Spectrum Analyzer - Swept SA RF 50 Ω Iarker 1 5.85706692667 0 dB/div Ref 0.00 dBm 9 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De
Res BW 1.0 MHz sq sq Agilent Spectrum Analyzer - Swept SA RF 50 Ω Iarker 1 5.85706692667 0 dB/div Ref 0.00 dBm 9 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lo Marker De
Res BW 1.0 MHz sg	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr-J
Res BW 1.0 MHz 3G 4 Agilent Spectrum Analyzer - Swept SA RF 50 Ω D dB/div Ref 0.00 dBm 0 0 0	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr-o
Res BW 1.0 MHz sg	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr-o
Res BW 1.0 MHz sg	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→Ref L Mo
Res BW 1.0 MHz sg	3 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run Atten: 10 dB	Sweep 2.	667 ms (40000 pts)	Peak Search Next Peak Next Pk Rig Next Pk Le Marker De Mkr-A



TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz

Dilent Spectru	um Analyzer - Swep									
💢 Marker 1 6	RF 50 Ω		z		NSE:INT	Avg Type	: Log-Pwr		DE 1 2 3 4 5 6	Peak Search
	PREAMP	P IF	NO: Fast 🔾 Gain:Low	Trig: Free Atten: 30		Avg Hold:	:>100/100	TY D	PE MWWWWW ET PNNNNN	
10 dB/div	Ref 0.00 dB	m					Mki	1 671.0 -66.2	041 MHz 70 dBm	Next Peak
Log										
-10.0										Next Pk Right
-20.0									<u> </u>	
-30.0									-27.00 dBm	Next Pk Lef
-40.0										Marker Delta
-50.0										
-60.0										
thusts.	an la sua a sua facilitada da sua faci	tette alla	هان م		ter en alaliaero.	♦	ersennen för lår av blav	ւլվենեներդների	e en en se dissibilitationalis	Mkr→CF
-70.0	an a second special parts and the second						ing and a second se	a mali produce je	i the set of the set o	
-80.0										Mkr→RefLv
-90.0										
										More
Start 30.0 M #Res BW 1			#\(B)4	/ 300 kHz			woon 02	Stop 1.	0000 GHz	1 of 2
#Res BW T	UU KHZ		#VBW	7 300 KHZ		5	status		0000 pts)	

Agilent Spectrum Analyzer - Sw RF 50	vept SA Ω DC		SENSE:IN	Π				
larker 1 2.001019	525488 GH	IO: Fast 🖵	Trig: Free Run	Avg Typ	e: Log-Pwr :>100/100	TYPE	1 2 3 4 5 6 MWWWW P N N N N N	Peak Search
	IFG	ain:Low	Atten: 10 dB		Mkr1	2.001 (Next Pea
0 dB/div Ref 0.00 c	dBm					-61.60	9 dBm	
.og								
10.0								Next Pk Rig
20.0							-27.00 dBm	
30.0							-27.00 GBM	Next Pk Le
40.0								Marker De
50.0								
	1							
50.0	ala din dina dan da sa	. O & Descrift Deskinger	Jillinders british to a the	di				Mkr→C
	Descale of the local division of the local d	and addition to a statistic second	a a an		ta Latino andri di Latino di Silano.	a di <mark>di ba</mark> ara	nd a belief dire	
80.0						A.1	and shared and a second se	Mkr→RefL
50.0								WIKI → KCI L
90.0								
								Mo
						Oton 5		1 0
		#\/D\//					715 GHz	
Start 1.000 GHz ¢Res BW 1.0 MHz sg		#VBW :	3.0 MHz	s	weep 8.00			
Res BW 1.0 MHz		#VBW (3.0 MHz	5	Sweep 8.00			
Res BW 1.0 MHz sg Agilent Spectrum Analyzer - Sw RF 50	Ω DC		3.0 MHz	T	STATUS	00 ms (40	000 pts)	Deak Search
Res BW 1.0 MHz SG Agilent Spectrum Analyzer - Sw	Ω DC 746469 GH PN	Z IO: Fast	SENSE:IN	T Avg Typ		00 ms (40	123456	Peak Search
Res BW 1.0 MHz sg Agilent Spectrum Analyzer - Sw RF 50	Ω DC 746469 GH PN	z	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET	123456 MWWWWW PNNNNN	Peak Search
Res BW 1.0 MHz sa Agilent Spectrum Analyzer - Sw RF 50 Jarker 1 5.7248587 0 dB/div Ref 0.00 c	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS	00 ms (40 TRACE TYPE DET 24 858 7	123456 MWWWWW PNNNNN	Peak Search
Res BW 1.0 MHz sa Agilent Spectrum Analyzer - Sw Ref 50 Narker 1 5.7248587	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	123456 M P NNNN 75 GHz	Peak Search Next Pea
Res BW 1.0 MHz	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	123456 M P NNNN 75 GHz	Peak Search Next Pea
Res BW 1.0 MHz s a Agilent Spectrum Analyzer - Sw RF 50 Marker 1 5.7248587 0 dB/div Ref 0.00 c	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	123456 M P NNNN 75 GHz	Peak Search Next Pea
Res BW 1.0 MHz sg Agilent Spectrum Analyzer - Sw RF 50 Aarker 1 5.724858	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz sg (Agilent Spectrum Analyzer - Sw RF 50 Jarker 1 5.7248587 0 dB/div Ref 0.00 c 9 0 0 dB/div Ref 0.00 c	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz SG I Agilent Spectrum Analyzer - Sw RF 50 Narker 1 5.7248587 0 dB/div Ref 0.00 c 9 0 10.0 0 30.0 0	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig
Res BW 1.0 MHz sg Agilent Spectrum Analyzer - Sw RF 50 Marker 1 5.7248587 0 dB/div Ref 0.00 c 9 9 10.0 9 30.0 9	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 1.0 MHz SG I Agilent Spectrum Analyzer - Sw RF SO Narker 1 5.7248587 0 dB/div Ref 0.00 c 9 0 10.0 0 30.0 0 40.0 0	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW 1.0 MHz sg sg Agilent Spectrum Analyzer - Sw RF So Iarker 1 5.7248587 0 dB/div Ref 0.00 c 9	Ω DC 746469 GH PN IFG	Z IO: Fast	SENSE:IN	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100	00 ms (40 TRACE TYPE DET 24 858 7	■23456 M P N N N N 75 GHz 1 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 1.0 MHz sa 4 Agilent Spectrum Analyzer - Sw RF So RF So 0 dB/div Ref 0.00 c 9	Ω DC 746469 GH PN IFG	Z O: Fast ain:Low	SENSE:IN Trig: Free Run Atten: 10 dB	T Avg Typ Avg Hold	STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 1.0 MHz sa 4 Agilent Spectrum Analyzer - Sw RF So RF So 0 dB/div Ref 0.00 c 9	Ω DC 746469 GH PN IFG	IZ IO: Fast ↓ Sain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 1.0 MHz sa	Ω DC 746469 GH PN IFG	IZ IO: Fast ↓ Sain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW 1.0 MHz sa Agitent Spectrum Analyzer - Sw Re 50 Arker 1 5.7248587 0 dB/div Ref 0.00 c 9 9 10.0	Ω DC 746469 GH PN IFG	IZ IO: Fast ↓ Sain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Per Next Pk Rig Next Pk Lo Marker De Mkr→0
Res BW 1.0 MHz sa	Ω DC 746469 GH PN IFG	IZ IO: Fast ↓ Sain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C
Res BW 1.0 MHz sa (a) (a) (b) (c)	Ω DC 746469 GH PN IFG	IZ IO: Fast ↓ Sain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72	00 ms (40	1000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→C
Res BW 1.0 MHz sa Agilent Spectrum Analyzer - Sw RF 50 Narker 1 5.7248587 0 dB/div Ref 0.000 c	Ω DC 746469 GH PN IFG	IZ O: Fast ain:Low	SENSE:IN Trig: Free Run Atten: 10 dB		STATUS e: Log-Pwr :>100/100 Mkr1 5.72 	00 ms (40	12 3 4 5 6 M HANNER 75 GHz 1 dBm -17.00 dBm -17.00 dBm -17.00 dBm -17.00 dBm -17.00 dBm	

Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC		SENSE:INT			- 6 -
Marker 1 5.8500397509		Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 TYPE MWWW DET P N N N	5 6 WW
	IFGain:Low	Atten: 10 dB	Mkr1 5	.850 039 75 GI	
10 dB/div Ref 0.00 dBm				-49.770 dB	m.
10.0					Next Pk Righ
20.0				-17.00 (IBm
					Next Pk Le
30.0					
40.0					MarkerDak
50.0					Marker Del
a difference and a second s	Weinsteine Mittalie	da balan balah	un haran i		
60.0	altinity alter a state and supplied	ngangangang gergan sangangan san di San di san di tanggan san di san san di san san di		andre was treated a sector rest of party	<mark>ur</mark> Mkr→C
70.0		t Ittel had	and a second	The state of the second se	
80.0					Mkr→RefL
90.0					Mor
Start 5 850000 GHz				Stop 5 860000 GI	1 01
Start 5.850000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz		Stop 5.860000 GI .667 ms (40000 p	lz
	#VBW	3.0 MHz		.667 ms (40000 p	lz
#Res BW 1.0 MHz IISG # Agilent Spectrum Analyzer - Swept SA			Sweep 2	.667 ms (40000 p	12 (5)
#Res BW 1.0 MHz	890 GHz	SENSE:INT	Sweep 2	.667 ms (40000 p JS TRACE 12 3 4	12 (S) Peak Search
#Res BW 1.0 MHz IsG Mail Agilent Spectrum Analyzer - Swept SA RF 50 Ω		SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	.667 ms (40000 p us TRACE 1 2 3 4 TYPE M	Peak Search
Res BW 1.0 MHz IsG Agilent Spectrum Analyzer - Swept SA Agilent Spectrum Analyzer - Swept SA RF S0 Ω DC Narker 1 38.1034755866	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	.667 ms (40000 p JS TRACE 12 3 4	Peak Search
Res BW 1.0 MHz IsG Agilent Spectrum Analyzer - Swept SA Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC Narker 1 38.1034755866	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p) IS TRACE 1234 TYPE MWWW DET P NNN IT 38.103 5 GH	Peak Search Next Pea
Res BW 1.0 MHz IsG Agilent Spectrum Analyzer - Swept SA Agilent Spectrum Analyzer - Swept SA RF S0Ω DC Narker 1 38.1034755866	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p) IS TRACE 1234 TYPE MWWW DET P NNN IT 38.103 5 GH	Peak Search Next Pea
Res BW 1.0 MHz Isg Agilent Spectrum Analyzer - Swept SA RF 50 Ω Jarker 1 38.1034755864 OdB/div Ref 0.00 dBm	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p) IS TRACE 1234 TYPE MWWW DET P NNN IT 38.103 5 GH	Peak Search Next Pea
Res BW 1.0 MHz IsG	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p) IS TRACE 1234 TYPE MWWW DET P NNN IT 38.103 5 GH	12 (S) Peak Search NN 12 Next Pk Rigi
Res BW 1.0 MHz IsG IsG Agilent Spectrum Analyzer - Swept SA RF 50 Ω DC Marker 1 38.1034755862 OdB/div Ref 0.00 dBm	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p 15 TRACE 1.2.3.4 TYPE MUNIT TYPE MUNIT T1 38.103 5 GH -58.267 dB	12 IS) Peak Search NN 12 Next Pk Righ
Res BW 1.0 MHz IsG	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p 15 TRACE 1.2.3.4 TYPE MUNIT TYPE MUNIT T1 38.103 5 GH -58.267 dB	12 IS Peak Search NN Next Pea Next Pk Right Next Pk Le
Res BW 1.0 MHz IsG	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	.667 ms (40000 p JS TRACE 1 2 3 4 TYPE MWNN r1 38.103 5 GH -58.267 dB -27.00	12 IS Peak Search NNN IZ Next Pk Right Next Pk Le
Res BW 1.0 MHz Isg Isg Isg Isg Agilent Spectrum Analyzer - Swept SA Isg RF ISG Q Marker 1 38.1034755864 Isg Io dB/div Ref 0.00 dBm 00 Isg 10 Isg	890 GHz PNO: Fast	SENSE:INT	Sweep 2 STATL Avg Type: Log-Pwr Avg Hold:>100/100	1.667 ms (40000 p 15 TRACE 1.2.3.4 TYPE MUNIT TYPE MUNIT T1 38.103 5 GH -58.267 dB	12 IS Peak Search NN Next Pea Next Pk Right Next Pk Le
Res BW 1.0 MHz Isg Isg Isg Isg Agilent Spectrum Analyzer - Swept SA RF SO Q RF 50 Q Marker 1 38.1034755861 Isg IO dB/div Ref 0.00 dBm 20 Isg Isg 10.0 Isg Isg 20.0 Isg Isg 40.0 Isg Isg	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	12 15 Peak Search Next Pea Next Pk Rigi Next Pk Le Marker Def
Res BW 1.0 MHz Isg Isg Isg Isg Agilent Spectrum Analyzer - Swept SA Isg RF ISG Q Marker 1 38.1034755864 Isg Io dB/div Ref 0.00 dBm 00 Isg 10 Isg	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	12 15 Peak Search Next Pea Next Pk Rigi Next Pk Le Marker Del
Res BW 1.0 MHz Isg Agilent Spectrum Analyzer - Swept SA RF 50.0 DC Marker 1 38.1034755861 10 dB/div Ref 0.00 dBm 20.0	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	12 15 Peak Search Next Peak Next Pk Right Next Pk Le Marker Def Mkr-C
Res BW 1.0 MHz IsG	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	12 15 Peak Search Next Peak Next Pk Right Next Pk Le Marker Definition Mkr→C
Res BW 1.0 MHz IsG	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	IZ S Peak Search Next Pea Next Pk Rigi Next Pk Le Marker Del Mkr→Ref L
Res BW 1.0 MHz Isg	890 GHz PNO: Fast	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p IS TRACE 1 2 3 4 TYPE MIN IT 38.103 5 GH -58.267 dB -27.00 -27.00 -27.00 -27.00	IZ IS Peak Search Next Pea Next Pk Right Next Pk Le Marker Dell Mkr→Ref L Mori 1 of
Res BW 1.0 MHz IsG	890 GHz PNO: Fast IFGain:Low	Trig: Free Run Atten: 10 dB	Sweep 2	1.667 ms (40000 p 15 TRACE 1 2 3 4 TYPE MININ 11 38.103 5 GH -58.267 dB -27 00 -27 00	IS) Peak Search Next Pea Next Pk Righ Next Pk Le Marker Dell Mkr→C Mkr→Ref L Mor 1 of

ent Spectrum Analyzer - Swept SA Marker 1 964.836620916 MHz PREAMP IFGain:Low #Atten: 30 dB Peak Search TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN Avg Type: Log-Pwr Avg|Hold:>100/100 Next Peak Mkr1 964.837 MHz -66.629 dBm Ref 0.00 dBm 10 dB/div Log Next Pk Right Next Pk Left Marker Delta Mkr→CF ۸ Mkr→RefLvl More 1 of 2 Start 30.0 MHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz MSG STATUS 📕 Agilent Spectrum Analyzer - Swept SA Marker 1 2.102578814470 GHz Trig: Free Run PN0: Fast FGain:Low #Atten: 20 dB TYPE NNNN Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 Next Peak Mkr1 2.102 58 GHz -51.630 dBm 10 dB/div Log Ref -10.00 dBm Next Pk Right Next Pk Left 1 and a <mark>ning dia kanang kana</mark> Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Stop 5.150 GHz Sweep 8.000 ms (40000 pts) Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz

FOR 802.11N40 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

						ctrum Analyzer -	📕 Agilent Sp
Peak Search	TRACE 123456 TYPE M WWWW DET P N N N N N	pe: Log-Pwr ld:>100/100			GHz PNO: Fast	^{RF} 5 38.84785	w Marker
Next Peak	1 38.847 9 GHz -48.178 dBm	Mkr1	20 08	#Atten.	IFGain:Low	Ref -10.0	10 dB/div
Next Pk Right	-27.00 dBm						- og
Next Pk Left							-30.0
Marker Delta		a di seta para sa dala da seta seta seta seta seta seta seta set		i a lataria litta			-50.0
Mkr→CF							-70.0
Mkr→RefLv							.90.0
More 1 of 2	Stop 40.00 GHz .67 ms (40000 pts)	Sween 59	7	/ 3.0 MH2	#\/B\	i GHz 1.0 MHz	-100
	or ins (40000 pts)	Sweep 38.	2		#VDV		FRES DV

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz

🃁 Agilent Spe	ctrum Analyzer - Swept									
Marker 1	RF 50 Ω 981.375534	388 MH				Avg Type Avg Hold:	: Log-Pwr		E 1 2 3 4 5 6 E MWWWW	Peak Search
10 dB/div	PREAMP Ref 0.00 dB	IFC	NO: Fast 🕞 Gain:Low	#Atten: 3		Avginoid.		DE 1 981.3	76 MHz 66 dBm	Next Peak
-10.0										Next Pk Right
-20.0									-27.00 dBm	Next Pk Left
-40.0										Marker Delta
-60.0										Mkr→CF
-70.0 <mark>Weekling</mark> -80.0	d yezhoù de servezhoù en terezhoù Anezhoù en zo en terezhoù en terezhoù Anezhoù en zo en terezhoù en terezhoù en terezhoù en terezhoù en terezhoù	dda Byffrango Cyflwry Henny yn yw gallan awd bwra	na an an Anna Anna Anna Anna Anna An Anna Anna	in an Antiki (1993) an ay an atao an ang	i da popul de la construction en en participante de construction de la construction de la construction de la construction de la construction	and a see from the last of the second sector	ing Did setupopolista Millio Anna Japanet		er (hy pend ⁽ bed Alf (h)) _{Ang ang ang ang ang ang ang ang ang ang a}	Mkr→RefLv
-90.0) MHz							Stop 1.	0000 GHz	More 1 of 2
#Res BW			#VBW	300 kHz		S	weep 93	.33 ms (4	0000 pts)	
							314103			

Agrient spe	ctrum Analyzer - RF 5	50 Ω DC		SEI	NSE:INT					
larker 1	2.03513	9628491 G	HZ NO: Fast 🗔	Trig: Free		Avg Type Avg Hold	e: Log-Pwr :>100/100	TRAC TYP	1 2 3 4 5 6 M WWWW P N N N N N	Peak Search
		IF	Gain:Low	#Atten: 2	0 dB		Mired			NextPe
) dB/div	Ref -10.0	00 dBm					WIKCI	-51.98	14 GHz 32 dBm	
og										
0.0										Next Pk Rig
									-27.00 dBm	
0.0										
0.0										Next Pk L
		.1								
0.0			anderen de Ala samera	internet in the	و به المرالية ال					Marker De
delina ^{Mi} 0.0		and the second s	w the state of the	a analaya "a tananga Analaya "a tananga		a ala ang ang ang ang ang ang ang ang ang an	Man and a star	مانتان و مقروا و ا	and the second second	Marker De
						and the state	Distances in the second se	er man an	Ang day and the local day	
0.0										Mkr→0
0.0										
0.0										Mkr→RefL
100										
										Mo
								Stop 5.	450 CH-	1 0
tart 1.00)0 GHz								IJU GHZ	
tart 1.00 Res BW	00 GHz 1.0 MHz		#VBW	∜ 3.0 MHz		S	status	0 ms (4	0000 pts)	
Res BW	1.0 MHz		#VBW			S		00 ms (4	0000 pts)	- 0 .
Res BW	1.0 MHz ctrum Analyzer - RF 5	Swept SA 50 Ω DC 27428186 (SEI	NSE:INT	Avg Type	STATUS	10 ms (4	0000 pts)	Peak Search
Res BW	1.0 MHz ctrum Analyzer - RF 5	50 Ω DC 27428186 (F		SEI	NSE:INT	Avg Type	STATUS	10 ms (4	0000 pts)	Peak Search
Res BW	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	123456 Mwwww PNNNN 1GHz	Peak Search
Agilent Spe arker 1 0 dB/div	1.0 MHz ctrum Analyzer - RF 5	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	0000 pts)	Peak Search
Agilent Spe Agilent Spe arker 1	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	123456 Mwwww PNNNN 1GHz	Peak Search Next Pe
Agilent Spe Agilent Spe arker 1	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	0000 pts)	Peak Search Next Pe
Agilent Spe arker 1 0 dB/div	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	123456 Mwwww PNNNN 1GHz	Peak Search Next Pe
Res BW G Agilent Spec Agilent Spec D dB/div O O O D O D O D O D O D O D O D O D O	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	0000 pts)	Peak Search Next Pe Next Pk Rig
Res BW G Agilent Spec C Agilent Spec	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	NSE:INT	Avg Type	STATUS e: Log-Pwr :>100/100	TRAC TYP DE 38.697	0000 pts)	Peak Search Next Pea Next Pk Rig
Res BW G Agilent Spec arker 1 O dB/div O g 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW G Agilent Spe arker 1 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type	STATUS 2: Log-Pwr :>100/100 Mkr1	TRAC TYP DE 38.697	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Li
Res BW	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Peak Next Pk Rig Next Pk Lu Marker De
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De
Res BW G Agilent Spe Iarker 1 O dB/div O g G 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4 TRAC TYP 38.697 -48.4	0000 pts)	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→4
Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 27428186 (F IF	GHz PNO: Fast G) Trig: Free	e Run 0 dB	Avg Type Avg Hold	STATUS 2: Log-Pwr :>100/100 Mkr1	00 ms (4)	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0

Peak Search					SENSE:INT		Ω DC		
r oak ooaron	E 1 2 3 4 5 6 E M WWWW T P N N N N N	TYP DE	: Log-Pwr :>100/100		g: Free Run tten: 30 dB	NO: Fast 🖵		852.1683	larker 1
NextPea	68 MHz 27 dBm	1 852.1	Mkr		tten. 30 dB	Gain:Low		PREAMP	
		-00.0					Bm	Ref 0.00	0 dB/div ^{og}
Next Pk Rig									10.0
Next Pk Le	-27.00 dBm								20.0
									30.0
									10.0
Marker De									50.0
Mkr→C		↓1							50.0
	gel og år die eiletet. An atgevel er gleter	a fa fi a fa a fa fi a fa a fi a fa a fi a fa fi a fa a fi a fa a A fa a fa a	leiten (1990-1991) ¹⁹⁹ 1-1995 - Angeler (1995)	and a stand of the	n a kanan da han da kanan Manan yang matanan da kanan	a di ni ng na tinang takan ng ng n	<mark>lah dalam tu matili</mark> Mangang pangangan sa	ang a la ang ang ang ang ang ang ang ang ang an	o.o <mark>Ildunu</mark>
Mkr→RefL									:0.0
									.0.0
									,0.0
Mo									
Мо 1 о	0000 GHz								tart 30.0
		.33 ms (4	weep 93.	\$	kHz	#VBW		MHz 100 kHz	Res BW
1 0		.33 ms (4	weep 93. status	<u></u>	kHz	#VBW		100 kHz	Res BW
	0000 pts)	33 ms (4	STATUS		kHz sense:int		Ω DC	100 kHz trum Analyzer - Sv RF 50	Res BW
10		33 ms (4		Avg Typ		Hz NO: Fast	Ω DC 86690 C	100 kHz trum Analyzer - Sv	Res BW
10	0000 pts)	33 ms (4 TRAC TYP DE 1 5.713	STATUS :: Log-Pwr >100/100	Avg Typ	SENSE:INT	Hz	2 DC 586690 G	100 kHz trum Analyzer - Sv RF 50 5.713467	Res BW
1 o ت ت او او Peak Search	0000 pts) E 1 2 3 4 5 6 E M WWWWW T P N N N N	33 ms (4 TRAC TYP DE 1 5.713	STATUS :: Log-Pwr >100/100	Avg Typ	SENSE:INT	Hz NO: Fast	2 DC 586690 G	100 kHz trum Analyzer - Sv RF 50	Res BW
1 o ت ت او او Peak Search	0000 pts)	33 ms (4 TRAC TYP DE 1 5.713	STATUS :: Log-Pwr >100/100	Avg Typ	SENSE:INT	Hz NO: Fast	2 DC 586690 G	100 kHz trum Analyzer - Sv RF 50 5.713467	Res BW G Agilent Special Agilent Special Iarker 1 0 dB/div
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ا م Peak Search Next Pea Next Pk Rig	0000 pts)	33 ms (4 TRAC TYP DE 1 5.713	STATUS :: Log-Pwr >100/100	Avg Typ	SENSE:INT	Hz NO: Fast	2 DC 586690 G	100 kHz trum Analyzer - Sv RF 50 5.713467	Res BW Galarker 1 Call Agilent Spec Call Agilent
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1 o Peak Search Next Pea Next Pk Rig	0000 pts)	33 ms (4	STATUS	Avg Typ	SENSE:INT g: Free Run ten: 10 dB	Hz NO: Fast G Gain:Low	2 DC 186690 C 1 	100 kHz trum Analyzer - 50 RF 50 5.713467 Ref 0.00 (Res BW Galarker 1 Call Agilent Spec Call Agilent
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

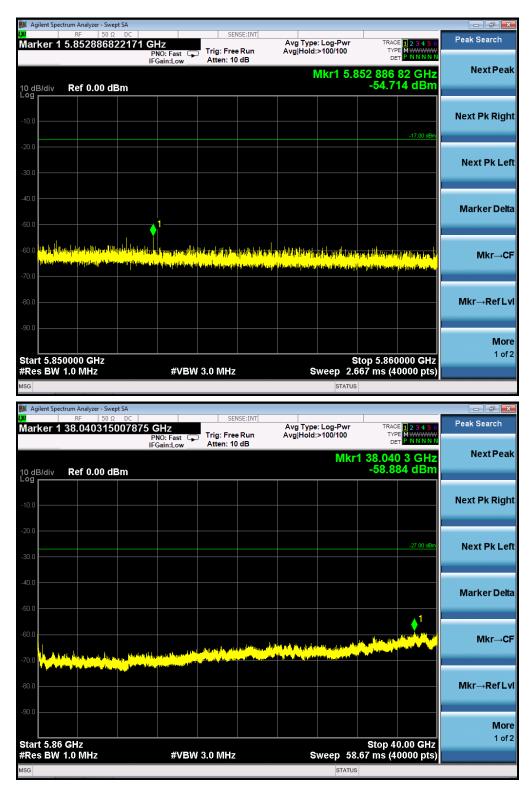
Agilent Spectrum Analyzer - S	wept SA		SEN	ISE:INT					
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📕 Agilent Spe	ctrum Analyzer - Swept				 				
<mark>x</mark> Marker 1	RF 50 Ω 38.1333488	33721 0	Hz NO:Fast ⊊		Avg Type Avg Hold:	: Log-Pwr >100/100	TYP	123456 MWWWW PNNNNN	Peak Search
10 dB/div	Ref 0.00 dB		Jain:Low	Atten. It		Mkr	1 38.133 -58.1	3 GHz 54 dBm	Next Peak
-10.0									Next Pk Right
-20.0								-27.00 dBm	Next Pk Left
-40.0									Marker Delta
50.0 60.0									Mkr→CF
70.0	nter Mile Abrahak Abrah J. Projek a karaka ara ara			and the density					Wiki ->Ci
80.0									Mkr→RefLvl
90.0 Start 5.86	CH7						Stop 4	0.00 GHz	More 1 of 2
#Res BW			#VBW	3.0 MHz	s	weep 58	.67 ms (4	0000 pts)	
ISG						STATUS			

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795MHz

🎉 Agilent Spe	ctrum Analyzer - Swep				 		-		
Marker 1	RF 50 Ω 333.472086		Z NO:Fast		Avg Type Avg Hold:	: Log-Pwr >100/100	TYP	E 1 2 3 4 5 6 E M WWWW	Peak Search
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-10.0									Next Pk Right
-20.0								-27.00 dBm	Next Pk Left
-40.0									Marker Delta
-50.0			▲1						Mkr→CF
-70.0 <mark>(19.494)</mark> -80.0	h ital kenyang bara Munish italah salah Panang panananan kenyakan ang	ditio da ta stato Maria da seguinte			a bi kana jan di tata kan Kana dan sang si kan di	h <mark>indet des des secondes des second Secondes des secondes des secondes</mark>		tariya adapatading biya na na sang tina bahama	Mkr→RefLv
-90.0									More
Start 30.0 #Res BW			#VBW	300 kHz	s	weep 93	Stop 1.0 .33 ms (4	0000 GHz 0000 pts)	1 of 2
MSG						STATUS			

Agilent Spe	ctrum Analyzer - RF	50 Ω DC		SENS	E:INT					
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Res BW	1.0 MHz ctrum Analyzer - RF		GHz	SENS	Run A		STATUS	TRAC	0000 pts)	⊂ @] Peak Search
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Res BW GG Agilent Spe Iarker 1 0 dB/div	1.0 MHz ctrum Analyzer - RF	50 Ω DC 0834271	GHz PN0: Fast ⊂	SENS	Run A	Avg Type Avg Hold:	STATUS	TRAC TYF DE 18 370	0000 pts) E 1 2 3 4 5 6 E M WWWW T P N N N N	Peak Search
Res BW	1.0 MHz	50 Ω DC 0834271	GHz PN0: Fast ⊂	SENS	Run A	Avg Type Avg Hold:	STATUS : Log-Pwr >100/100	TRAC TYF DE 18 370	0000 pts)	Peak Search
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Res BW	1.0 MHz	50 Ω DC 0834271	GHz PN0: Fast ⊂	SENS	Run A	Avg Type Avg Hold:	STATUS : Log-Pwr >100/100	TRAC TYF DE 18 370	0000 pts)	Peak Search Next Pea Next Pk Rig
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Res BW Galent Spe Caglent Spe	1.0 MHz	50 Ω DC 0834271	GHz PN0: Fast ⊂	SENS	Run A	Avg Type Avg Hold:	STATUS : Log-Pwr >100/100	TRAC TYF DE 18 370	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu
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Res BW G G G G G G G G G G G G G G G G G G G	1.0 MHz	50 Ω DC 0834271 (0 dBm	GHz PNO: Fast IFGain:Low	Trig: Free Atten: 10 c	Run A B	Avg Type Avg Hold:	STATUS	TRAC TYF DE 18 370 -59,4	0000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Lu
Res BW Garker 1 Garke	1.0 MHz	0 dBm	GHz PNO: Fast IFGain:Low	Trig: Free P Atten: 10 c		Avg Type Avg Hold:	STATUS : Log-Pwr >100/100 Akr1 5.7	TRAC TVF DE 18 370 -59.4	0000 pts) E 2 3 4 5 6 E M WWWW 83 GHz 66 dBm -17.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW Galert Specific Agilent Specific	1.0 MHz	0 dBm	GHz PNO: Fast IFGain:Low	Trig: Free Atten: 10 c		Avg Type Avg Hold:	STATUS : Log-Pwr >100/100 Akr1 5.7	TRAC TVF DE 18 370 -59.4	0000 pts) E 2 3 4 5 6 E M WWWW 83 GHz 66 dBm -17.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 33 4 Agilent Spectron 1 arker 1 0 dB/div 9 10.0 93 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	1.0 MHz	0 dBm	GHz PNO: Fast IFGain:Low	Trig: Free P Atten: 10 c		Avg Type Avg Hold:	STATUS : Log-Pwr >100/100 Akr1 5.7	TRAC TVF DE 18 370 -59.4	0000 pts) E 2 3 4 5 6 E M WWWW 83 GHz 66 dBm -17.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0
Res BW 3G (Agilent Special Spe	1.0 MHz	0834271 (0834271 (0834271 (GHz PNO: Fast IFGain:Low	Trig: Free P Atten: 10 c		Avg Type Avg Hold:	STATUS : Log-Pwr >100/100 Akr1 5.7	TRAC TVF DE 18 370 -59.4	0000 pts) E 2 3 4 5 6 E M WWWW 83 GHz 66 dBm -17.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De
Res BW 33 4 Agilent Spectron 1 arker 1 0 dB/div 9 10.0 93 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	1.0 MHz	0834271 (0834271 (0834271 (GHz PNO: Fast IFGain:Low	Trig: Free P Atten: 10 c		Avg Type Avg Hold:	STATUS : Log-Pwr >100/100 Akr1 5.7	TRAC TVF DE 18 370 -59.4	0000 pts) E 2 3 4 5 6 E M WWWW 83 GHz 66 dBm -17.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→0
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Note: Two transmit chains had been tested, the chain 0 was the worst case and record in the test report.

11. RADIATED EMISSION

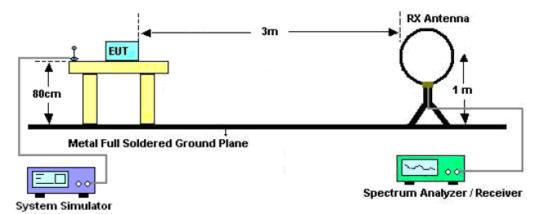
11.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 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.

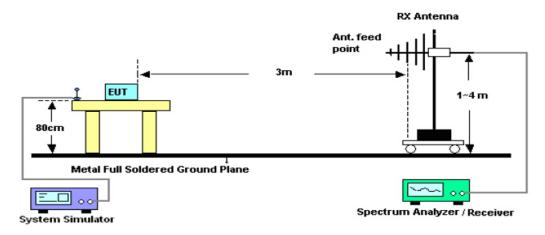
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

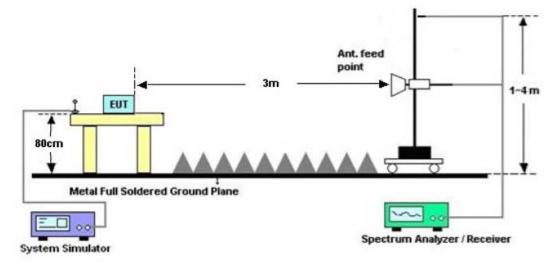
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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	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.

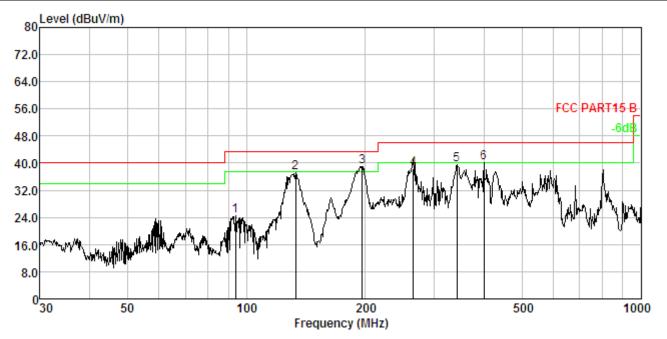
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

RADIATED EMISSION BELOW 1GHZ

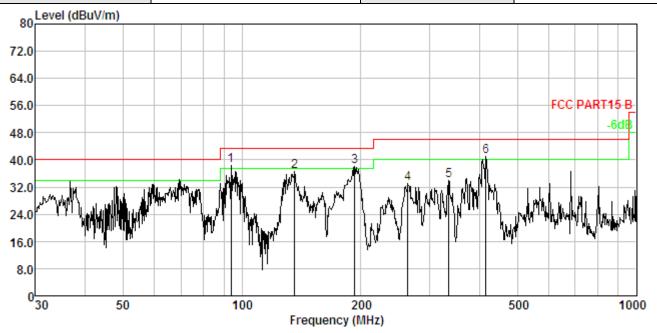


No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Le∨el dBuV/m	Limit dBuV/m	O∨er Limit dB	Remark
1.	93.768	2.09	9.63	43.19	30.37	24.54	43.50	-18.96	Peak
2.	133.151	2.40	12.87	52.46	30.49	37.24	43.50	-6.26	Peak
3.	196.510	2.76	10.63	56.14	30.62	38.91	43.50	-4.59	Peak
4.	264.746	3.03	12.30	53.81	30.73	38.41	46.00	-7.59	Peak
5.	341.979	3.26	14.12	52.98	30.82	39.54	46.00	-6.46	Peak
6.	400.432	3.40	15.33	52.19	30.87	40.05	46.00	-5.95	Peak

RESULT: PASS

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Le∨el dBuV/m	Limit dBuV/m	O∨er Limit dB	Remark
1.	93.768	2.09	9.63	56.95	30.37	38.30	43.50	-5.20	Peak
2.	135.982	2.42	13.07	51.63	30.50	36.62	43.50	-6.88	Peak
3.	193.095	2.74	10.87	55.14	30.62	38.13	43.50	-5.37	Peak
4.	263.819	3.02	12.26	48.62	30.73	33.17	46.00	-12.83	Peak
5.	334.859	3.24	13.98	47.59	30.81	34.00	46.00	-12.00	Peak
6.	416.179	3.44	15.63	52.93	30.89	41.11	46.00	-4.89	Peak

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

RADIATED EMISSION ABOVE 1GHZ

EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
10360.120	42.74	9.14	51.88	74	-22.12	peak		
10360.120	36.45	9.14	45.59	54	-8.41	AVG		
15540.180	40.29	10.22	50.51	74	-23.49	peak		
15540.180	34.36	10.22	44.58	54	-9.42	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
10360.120	41.21	9.14	50.35	74	-23.65	peak		
10360.120	35.27	9.14	44.41	54	-9.59	AVG		
15540.180	39.65	10.22	49.87	74	-24.13	peak		
15540.180	33.18	10.22	43.4	54	-10.6	AVG		
Remark:	Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
10480.120	41.27	9.27	50.54	74	-23.46	peak		
10480.120	35.84	9.27	45.11	54	-8.89	AVG		
15720.180	38.67	10.38	49.05	74	-24.95	peak		
15720.180	33.12	10.38	43.5	54	-10.5	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
10480.120	40.21	9.27	49.48	74	-24.52	peak		
10480.120	34.02	9.27	43.29	54	-10.71	AVG		
15720.180	38.29	10.38	48.67	74	-25.33	peak		
15720.180	33.31	10.38	43.69	54	-10.31	AVG		
Remark:	Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal (5180MHz)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
11490.120	40.85	9.42	50.27	74	-23.73	peak		
11490.120	34.24	9.42	43.66	54	-10.34	AVG		
17235.180	38.52	10.51	49.03	74	-24.97	peak		
17235.180	34.02	10.51	44.53	54	-9.47	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ–Vertical (5180MHz)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
11490.120	39.87	9.42	49.29	74	-24.71	peak		
11490.120	35.68	9.42	45.1	54	-8.9	AVG		
17235.180	38.06	10.51	48.57	74	-25.43	peak		
17235.180	33.54	10.51	44.05	54	-9.95	AVG		
Remark:	Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal (5180MHz)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
11650.120	40.21	9.62	49.83	74	-24.17	peak	
11650.120	34.27	9.62	43.89	54	-10.11	AVG	
17475.180	36.52	10.75	47.27	74	-26.73	peak	
17475.180	30.71	10.75	41.46	54	-12.54	AVG	
Remark:							
Factor = Ante	enna Factor + C	able Loss – Pr	e-amplifier.				

RADIATED EMISSION ABOVE 1GHZ–Vertical (5180MHz)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
11650.120	38.52	9.62	48.14	74	-25.86	peak			
11650.120	32.18	9.62	41.8	54	-12.2	AVG			
17475.180	35.63	10.75	46.38	74	-27.62	peak			
17475.180	29.86	10.75	40.61	54	-13.39	AVG			
Remark:	Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

Note: All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

3. Other procedures refer to clause 11.2.

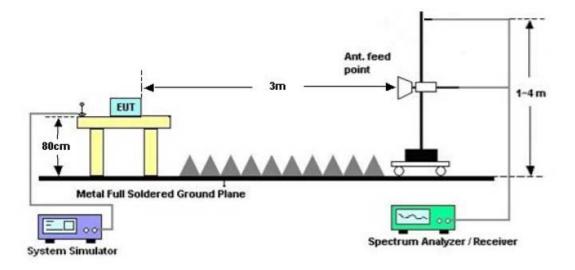
Note:

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.

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

12.2. TEST SET-UP



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12.3. TEST RESULT

EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



tart Freq 5.000000	PNO: Fast 🖵 Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE NUMBER OF PARTY	Frequency
0 dB/div Ref 106.99	IT GAILLOW	Mkr	2 5.150 0 GHz 44.008 dBµV	Auto Tun
9 97.0 97.0				Center Fre 5.100000000 GH
57.0		2		Start Fre 5.000000000 GH
77.0				Stop Fre 5.200000000 GF
tart 5.0000 GHz Res BW 1.0 MHz	#VBW 10 Hz	Sweep 156	Stop 5.2000 GHz 5.0 ms (1001 pts)	CF Ste 20.000000 MH Auto Ma
1 N 1 f 2 N 1 f 3 4 5	5.182 0 GHz 94.877 dBµV 5.150 0 GHz 44.008 dBµV		1	Freq Offs 0 F
6 7 8 9 9				
			-	

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



AV Value

X	trum Analyzer - Sw RF 50 S q 5.000000	R DC DOOD GHZ P	NO: Fast C Gain:Low	→ Trig: Free R #Atten: 20 d	Av tun Avg	g Type: Log-Pwr Hold:>100/100	TRACE TYPE DET	1 2 3 4 5 6 M	Frequency
10 dB/div	Ref 106.9	9 dBµV				Mk	r2 5.150 42.385		Auto Tune
97.0 97.0 87.0								1	Center Freq 5.100000000 GHz
67.0 57.0 47.0						¢2			Start Free 5.000000000 GH:
37.0 27.0 17.0									Stop Free 5.200000000 GH:
Start 5.00 #Res BW	1.0 MHz		#VB	W 10 Hz	FUNCTION	Sweep 1	Stop 5.20 56.0 ms (10	01 pts)	CF Step 20.000000 MH Auto Mar
1 N 1			6 GHz 4 GHz	93.121 dBµ\ 42.385 dBµ\	/	FORCTION WIDTH	FONCTION	VALUE X	Freq Offse 0 H
6 7 8 9 10									
sg				ш		STATUS	ŝ		

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 5180MHz	Antenna	Horizontal



AV Value

N	rum Analyzer - Swi RF 50 S 7 5.000000	0000 GHz); Fast C	SENSE:	Avg n Avg	Type: Log-Pwr Hold:>100/100	TRACE	2345 6	Frequency
10 dB/div	Ref 106.9	IFGa	in:Low	#Atten: 20 dE	3	Mk	r2 5.181 2 93.224	2 GHz	Auto Tune
97.0 97.0 87.0 77.0								2	Center Fred 5.100000000 GHz
67.0 57.0 47.0						^1		t - m	Start Free 5.000000000 GH
37.0 27.0 17.0									Stop Fre 5.200000000 GH
tart 5.00 Res BW	1.0 MHz	x	#VB1	W 10 Hz	FUNCTION	Sweep 1	Stop 5.200 56.0 ms (10	01 pts)	CF Ste 20.000000 MH <u>Auto</u> Ma
1 N 1 2 N 1 3 4 5	1	<u>5,150 0</u> 5,181 2		<u>39.888 dBµV</u> 93.224 dBµV					Freq Offse 0 H
6 7 8 9 10									
sg				m		STATUS		,	

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 5180MHz	Antenna	Vertical



AV Value

N I	rum Analyzer - Sw RF 50 S q 5.000000	000 GHz	NO: Fast C Gain:Low	Trig: Free Rt #Atten: 20 dl	Avg un Avg	Type: Log-Pwr Hold:>100/100		123456 M////////////////////////////////////	Frequency
10 dB/div	Ref 106.9					Mk	r1 5.181 91.58	0 GHz 5 dBµV	Auto Tune
97.0 97.0 87.0									Center Fred 5.100000000 GHz
67.0 57.0 47.0						2 ²			Start Fre 5.000000000 GH
37.0 27.0 17.0									Stop Fre 5.200000000 GH
tart 5.00 Res BW	1.0 MHz	x	#VB	W 10 Hz	FUNCTION	Sweep 1	Stop 5.2 56.0 ms (1	001 pts)	CF Ste 20.000000 MH <u>Auto</u> Ma
1 N 1 2 N 1 3 4 5	1	5,181	0 GHz 0 GHz	91.585 dBuV 39.402 dBuV					Freq Offse 0 H
6 7 8 9 10									
SG				m		STATUS	5		

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal



AV Value

X	trum Analyzer - Swe RF 50 G q 5.000000	000 GHz PNO: Fa		Avg T n Avg H	ype: Log-Pwr old:>100/100	TRACE 1 2 3 4 5 C	Frequency
10 dB/div	Ref 106.99	IFGain:L	w #Atten: 20 dB		Mkr1	5.188 76 GHz 90.031 dBµV	Auto Tune
97.0 97.0 87.0						1	Center Fred 5.110000000 GH
67.0 57.0 47.0					\$ ²		Start Free 5.000000000 GH
37.0 27.0 17.0							Stop Fre 5.220000000 GH
Start 5.00 Res BW	1.0 MHz	#	VBW 10 Hz	FUNCTION	Sweep 17	Stop 5.2200 GHz '1.6 ms (1001 pts)	CF Stej 22.000000 MH Auto Ma
	1	5.188 76 GH: 5.150 22 GH:	90.031 dBuV	PONCTION	PONCTION WIDTH		Freq Offse 0 H
6 7 8 9 10							
4 G			m		STATUS	,	

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EUT	JmGO Smart Portable Theater	Model Name	P1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical



PK Value

AV Value



RESULT: PASS

13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

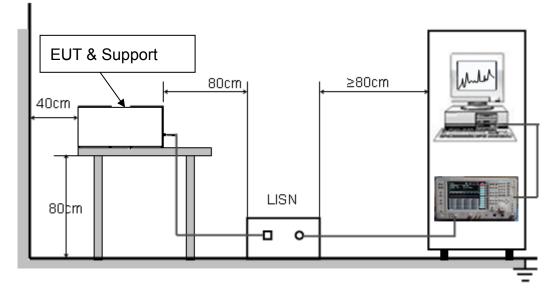
Frequency	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



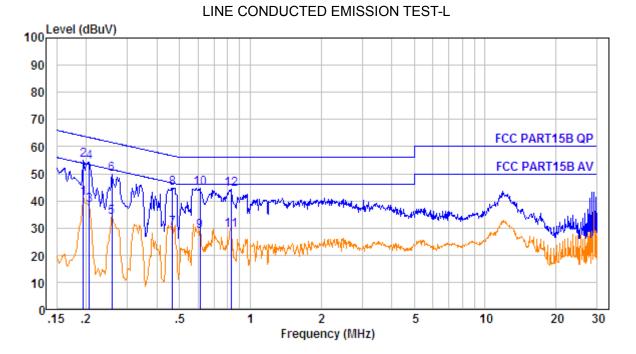
13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

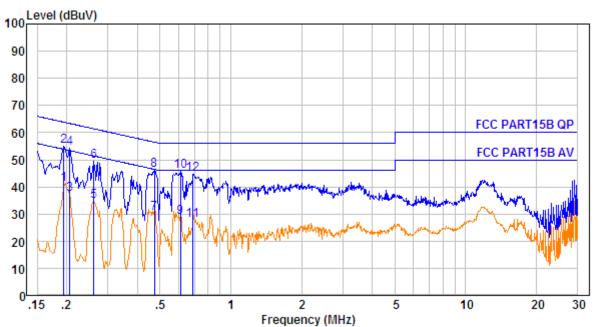
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Limit dBu∨	O∨er Limit dB	Remark
1.	0.194	10.61	0.60	29.68	40.89	53.84	-12.95	Average
2.	0.194	10.61	0.60	43.68	54.89	63.84	-8.95	Peak
3.	0.206	10.61	0.60	27.08	38.29	53.36	-15.07	Average
4.	0.206	10.61	0.60	43.08	54.29	63.36	-9.07	Peak -
5.	0.258	10.62	0.60	22.66	33.88	51.51	-17.63	Average
6.	0.258	10.62	0.60	38.66	49.88	61.51	-11.63	Peak
7.	0.466	10.64	0.60	18.54	29.78	46.58	-16.80	Average
8.	0.466	10.64	0.60	33.54	44.78	56.58	-11.80	Peak
9.	0.611	10.66	0.60	17.50	28.76	46.00	-17.24	Average
10.	0.611	10.66	0.60	33.50	44.76	56.00	-11.24	Peak
11.	0.830	10.66	0.60	17.84	29.10	46.00	-16.90	Average
12.	0.830	10.66	0.60	32.84	44.10	56.00	-11.90	Peak



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Le∨el dBuV	Limit dBu∨	O∨er Limit dB	Remark
1.	0.194	10.61	0.60	29.80	41.01	53.84	-12.83	Average
2.	0.194	10.61	0.60	43.80	55.01	63.84	-8.83	Peak [–]
3.	0.206	10.61	0.60	26.03	37.24	53.36	-16.12	Average
4.	0.206	10.61	0.60	43.03	54.24	63.36	-9.12	Peak
5.	0.262	10.62	0.60	23.29	34.51	51.38	-16.87	Average
6.	0.262	10.62	0.60	38.29	49.51	61.38	-11.87	Peak
7.	0.474	10.64	0.60	18.98	30.22	46.45	-16.23	Average
8.	0.474	10.64	0.60	34.98	46.22	56.45	-10.23	Peak
9.	0.611	10.66	0.60	17.34	28.60	46.00	-17.40	Average
10.	0.611	10.66	0.60	34.34	45.60	56.00	-10.40	Peak
11.	0.690	10.66	0.60	16.52	27.78	46.00	-18.22	Average
12.	0.690	10.66	0.60	33.52	44.78	56.00	-11.22	Peak

RESULT: PASS