



FCC TEST REPORT and IC TEST REPORT

For

LTE Module

Model: WW-ML067

Trade Name: Billion

Issued to

Billion Electric Co., Ltd.

8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)

Issued by

Compliance Certification Services Inc.

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)**

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Issued Date: January 28, 2015



Testing Laboratory
1309

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 28, 2015	Initial Issue	ALL	Angel Cheng



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1. TEST RESULT CERTIFICATION

Applicant: Billion Electric Co., Ltd.
8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 231, Taiwan (R.O.C.)

Equipment Under Test: LTE Module

Trade Name: Billion

Model: WW-ML067

Date of Test: January 20, 2015

OPERATING BAND: 2496 ~ 2690 MHz	
Standard	TEST TYPE AND LIMIT
2.1046 27.50(d)(4)	Maximum Peak Output Power Limit: max. 1 watts e.i.r.p peak power
2.1055 27.54	Frequency Stability
2.1049 27.53(h)	Occupied Bandwidth
27.50(d)(5)	Peak to average ratio
27.53(h)	Band Edge Measurements
2.1051 27.53(h)	Conducted Spurious Emissions
2.1053 27.53(h)	Radiated Spurious Emissions

- Note:
1. The test result judgment is decided by the limit of test standard
 2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by

Reviewed by

Miller Lee
Section Manager
Compliance Certification Services Inc.

Angel Cheng
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	LTE Module		
Model Number	WW-ML067		
Model Discrepancy	N/A		
Trade	Billion		
Received Date	January 19, 2015		
Power Source	DC 3.3V		
Modulation Technology	LTE Band 41		QPSK, 16QAM
Frequency Range	LTE Band 41 Channel Bandwidth: 5MHz		2498.5 MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz		2501MHz ~ 2685MHz
	LTE Band 41 Channel Bandwidth: 20MHz		2506MHz ~ 2680MHz
Maximum EIRP Power	For Antenna P/N: AN0727-64DP5BSM	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 24.93dBm 16QAM: 26.23dBm
		LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 23.48dBm 16QAM: 24.84dBm
		LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 20.45 dBm 16QAM: 21.18dBm
	For Antenna P/N: DA-B41-16-01-BL	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 32.23dBm 16QAM: 32.15dBm
		LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 32.29dBm 16QAM: 32.15dBm
		LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 31.63 dBm 16QAM: 31.83dBm
	For Antenna P/N: AN2600-5002BSM	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 24.21dBm 16QAM: 25.06dBm
		LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 23.00dBm 16QAM: 25.08dBm
		LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 21.13 dBm 16QAM: 22.65dBm
	For Antenna P/N: AN2600-6008BSM	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 29.55dBm 16QAM: 30.14dBm
		LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 26.66dBm 16QAM: 27.53dBm
		LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 25.44 dBm 16QAM: 26.46dBm



Antenna Specification	<ol style="list-style-type: none">1. P/N: AN0727-64DP5BSM Dipole Antenn / Gain: 3.7dBi2. P/N: DA-B41-16-01-BL Dual Polarization Directional Antenn / Gain: 11.5dBi3. P/N: AN2600-5002BSM Dipole Antenn / Gain: 4.15dBi4. P/N: AN2600-6008BSM Dipole Antenn / Gain: 7.14095dBi
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Note: 1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST TYPE

The EUT (model: WW-ML067) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

LTE Band 41: 2496 MHz ~ 2690 MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low channel (L)	2498.50	39675	2501.00	39700	2506.00	39750
Middle channel (M)	2593.00	40620	2593.00	40620	2593.00	40620
High channel (H)	2687.50	41565	2685.00	41540	2680.00	41490



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	11/23/2015
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/07/2015
AC Power Source	EXTECH	6205	1140845	N.C.R
DC Power Supply	ABM	8301HD	D011531	N.C.R
Power Meter	Anritsu	ML2495A	1012009	06/03/2015
Power Sensor	Anritsu	MA2411A	0917072	06/03/2015
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40	101073	07/09/2015
Spectrum Analyzer	Agilent	E4407B	MY44212686	03/12/2015
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1042473	03/05/2015
Bilog Antenna	Sunol Sciences	JB3	A030205	08/18/2015
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40	101073	07/09/2015
Horn Antenna	EMCO	3117	00055165	02/04/2015
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW 500	116875	05/27/2015



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.




Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A						

Remark:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



7. TEST PROCEDURE AND RESULT

7.1 OUTPUT POWER MEASUREMENT

LIMITS

Portable stations (hand-held devices) operating in the 2496-2690 MHz band are limited to 3 watts ERP

TEST PROCEDURES

EIRP / ERP MEASUREMENT:

1. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE.
2. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
3. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
4. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

CONDUCTED POWER MEASUREMENT:

1. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
2. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



TEST RESULTS

Channel Bandwidth: 5MHz

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
QPSK 1 RB ALLOCATED AT THE LOWER EDGE	2498.50	39675	21.85	0.15311	QPSK 50% RB ALLOCATION CENTERED	2498.50	39675	21.84	0.15276
	2593.00	40620	21.35	0.13646		2593.00	40620	21.52	0.14191
	2687.50	41565	21.94	0.15631		2687.50	41565	21.96	0.15704
QPSK 1 RB ALLOCATED AT THE UPPER EDGE	2498.50	39675	21.59	0.14421	QPSK 100% RB ALLOCATION CENTERED	2498.50	39675	21.71	0.14825
	2593.00	40620	21.36	0.13677		2593.00	40620	21.48	0.14060
	2687.50	41565	21.71	0.14825		2687.50	41565	21.88	0.15417

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
16QAM 1 RB ALLOCATED AT THE LOWER EDGE	2498.50	39675	22.05	0.16032	QPSK 100% RB ALLOCATION CENTERED	2498.50	39675	21.73	0.14894
	2593.00	40620	21.67	0.14689		2593.00	40620	21.49	0.14093
	2687.50	41565	22.08	0.16144		2687.50	41565	21.84	0.15276
16QAM 1 RB ALLOCATED AT THE UPPER EDGE	2498.50	39675	21.84	0.15276	QPSK 50% RB ALLOCATION CENTERED	2498.50	39675	21.82	0.15205
	2593.00	40620	21.61	0.14488		2593.00	40620	21.41	0.13836
	2687.50	41565	21.88	0.15417		2687.50	41565	21.78	0.15066

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.



Channel Bandwidth: 10MHz

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
QPSK 1 RB ALLOCATED AT THE LOWER EDGE	2501.00	39700	21.72	0.14859	QPSK 100% RB ALLOCATION CENTERED	2501.00	39700	21.48	0.14060
	2593.00	40620	21.30	0.13490		2593.00	40620	21.33	0.13583
	2685.00	41540	21.97	0.15740		2685.00	41540	21.84	0.15276
QPSK 1 RB ALLOCATED AT THE UPPER EDGE	2501.00	39700	21.31	0.13521	QPSK 50% RB ALLOCATION CENTERED	2501.00	39700	21.53	0.14223
	2593.00	40620	21.16	0.13062		2593.00	40620	21.30	0.13490
	2685.00	41540	21.71	0.14825		2685.00	41540	22.03	0.15959

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
16QAM 1 RB ALLOCATED AT THE LOWER EDGE	2501.00	39700	22.04	0.15996	QPSK 100% RB ALLOCATION CENTERED	2501.00	39700	21.53	0.14223
	2593.00	40620	21.64	0.14588		2593.00	40620	21.38	0.13740
	2685.00	41540	22.15	0.16406		2685.00	41540	21.85	0.15311
16QAM 1 RB ALLOCATED AT THE UPPER EDGE	2501.00	39700	21.74	0.14928	QPSK 50% RB ALLOCATION CENTERED	2501.00	39700	21.67	0.14689
	2593.00	40620	21.48	0.14060		2593.00	40620	21.43	0.13900
	2685.00	41540	21.81	0.15171		2685.00	41540	21.94	0.15631

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.



Channel Bandwidth: 20MHz

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
QPSK 1 RB ALLOCATED AT THE LOWER EDGE	2506.00	39750	21.31	0.13521	QPSK 100% RB ALLOCATION CENTERED	2506.00	39750	21.52	0.14191
	2593.00	40620	20.96	0.12474		2593.00	40620	21.26	0.13366
	2680.00	41490	21.80	0.15136		2680.00	41490	21.83	0.15241
QPSK 1 RB ALLOCATED AT THE UPPER EDGE	2506.00	39750	21.05	0.12735	QPSK 50% RB ALLOCATION CENTERED	2506.00	39750	21.40	0.13804
	2593.00	40620	20.85	0.12162		2593.00	40620	21.16	0.13062
	2680.00	41490	21.20	0.13183		2680.00	41490	21.97	0.15740

Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)	Frequency (MHz)		CH	Peak Power (dBm)	Output Power (W)
16QAM 1 RB ALLOCATED AT THE LOWER EDGE	2506.00	39750	21.53	0.14223	QPSK 100% RB ALLOCATION CENTERED	2506.00	39750	21.54	0.14256
	2593.00	40620	21.22	0.13243		2593.00	40620	21.28	0.13428
	2680.00	41490	21.81	0.15171		2680.00	41490	21.82	0.15205
16QAM 1 RB ALLOCATED AT THE UPPER EDGE	2506.00	39750	21.32	0.13552	QPSK 50% RB ALLOCATION CENTERED	2506.00	39750	21.53	0.14223
	2593.00	40620	21.11	0.12912		2593.00	40620	21.27	0.13397
	2680.00	41490	21.31	0.13521		2680.00	41490	21.94	0.15631

Remarks:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB) + 20dB Attenuator.
3. The value in bold is the worst.



EIRP POWER

For Antenna P/N: AN0727-64DP5BSM

Channel Bandwidth: 5MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	25.18	6.35	6.1	24.93	33.00	-8.07
	2498.50	H	18.3	6.35	6.1	18.05	33.00	-14.95
40620	2593.00	V	22.07	6.48	6.34	21.93	33.00	-11.07
	2593.00	H	15.99	6.48	6.34	15.85	33.00	-17.15
41565	2687.50	V	23.69	6.7	6.58	23.57	33.00	-9.43
	2687.50	H	15.62	6.7	6.58	15.50	33.00	-17.50

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	26.48	6.35	6.1	26.23	33.00	-6.77
	2498.50	H	18.76	6.35	6.1	18.51	33.00	-14.49
40620	2593.00	V	25.43	6.48	6.34	25.29	33.00	-7.71
	2593.00	H	17.61	6.48	6.34	17.47	33.00	-15.53
41565	2687.50	V	24.32	6.7	6.59	24.21	33.00	-8.79
	2687.50	H	17.27	6.7	6.58	17.15	33.00	-15.85



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	23.73	6.35	6.1	23.48	33.00	-9.52
	2501.00	H	16.27	6.35	6.1	16.02	33.00	-16.98
40620	2593.00	V	20.8	6.48	6.33	20.65	33.00	-12.35
	2593.00	H	15.11	6.48	6.33	14.96	33.00	-18.04
41540	2685.00	V	22.34	6.69	6.57	22.22	33.00	-10.78
	2685.00	H	15.06	6.69	6.57	14.94	33.00	-18.06

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	25.09	6.35	6.1	24.84	33.00	-8.16
	2501.00	H	17.54	6.35	6.1	17.29	33.00	-15.71
40620	2593.00	V	24.34	6.48	6.34	24.20	33.00	-8.80
	2593.00	H	16.62	6.48	6.34	16.48	33.00	-16.52
41540	2685.00	V	23.68	6.7	6.59	23.57	33.00	-9.43
	2685.00	H	16.5	6.69	6.58	16.39	33.00	-16.61



Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	20.7	6.35	6.1	20.45	33.00	-12.55
	2506.00	H	13.35	6.35	6.1	13.10	33.00	-19.90
40620	2593.00	V	19.76	6.47	6.32	19.61	33.00	-13.39
	2593.00	H	13.18	6.47	6.32	13.03	33.00	-19.97
41490	2680.00	V	19.03	6.67	6.55	18.91	33.00	-14.09
	2680.00	H	14.1	6.67	6.55	13.98	33.00	-19.02

Channel Bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	21.43	6.35	6.1	21.18	33.00	-11.82
	2506.00	H	14.55	6.35	6.1	14.30	33.00	-18.70
40620	2593.00	V	20.62	6.47	6.33	20.48	33.00	-12.52
	2593.00	H	14.7	6.48	6.34	14.56	33.00	-18.44
41490	2680.00	V	19.98	6.67	6.56	19.87	33.00	-13.13
	2680.00	H	14.48	6.67	6.55	14.36	33.00	-18.64

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



For Antenna P/N: DA-B41-16-01-BL

Channel Bandwidth: 5MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	31.35	6.35	6.1	31.10	33.00	-1.90
	2498.50	H	32.32	6.35	6.1	32.07	33.00	-0.93
40620	2593.00	V	31.68	6.48	6.34	31.54	33.00	-1.46
	2593.00	H	31	6.48	6.34	30.86	33.00	-2.14
41565	2687.50	V	32.34	6.7	6.59	32.23	33.00	-0.77
	2687.50	H	31.93	6.7	6.58	31.81	33.00	-1.19

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	32.4	6.35	6.1	32.15	33.00	-0.85
	2498.50	H	31.33	6.35	6.1	31.08	33.00	-1.92
40620	2593.00	V	31.36	6.48	6.35	31.23	33.00	-1.77
	2593.00	H	30.39	6.48	6.34	30.25	33.00	-2.75
41565	2687.50	V	31.36	6.7	6.58	31.24	33.00	-1.76
	2687.50	H	29.35	6.7	6.58	29.23	33.00	-3.77



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	31.61	6.35	6.1	31.36	33.00	-1.64
	2501.00	H	31.85	6.35	6.1	31.60	33.00	-1.40
40620	2593.00	V	30.88	6.48	6.33	30.73	33.00	-2.27
	2593.00	H	31.29	6.48	6.33	31.14	33.00	-1.86
41540	2685.00	V	30.92	6.7	6.59	30.81	33.00	-2.19
	2685.00	H	32.41	6.69	6.57	32.29	33.00	-0.71

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	31.29	6.35	6.1	31.04	33.00	-1.96
	2501.00	H	32.02	6.35	6.1	31.77	33.00	-1.23
40620	2593.00	V	31.57	6.48	6.33	31.42	33.00	-1.58
	2593.00	H	32.01	6.47	6.33	31.87	33.00	-1.13
41540	2685.00	V	30.93	6.7	6.59	30.82	33.00	-2.18
	2685.00	H	32.26	6.68	6.57	32.15	33.00	-0.85



Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	31.48	6.35	6.11	31.24	33.00	-1.76
	2506.00	H	31.46	6.35	6.1	31.21	33.00	-1.79
40620	2593.00	V	30.68	6.48	6.34	30.54	33.00	-2.46
	2593.00	H	31.11	6.48	6.34	30.97	33.00	-2.03
41490	2680.00	V	30.62	6.67	6.56	30.51	33.00	-2.49
	2680.00	H	31.75	6.67	6.55	31.63	33.00	-1.37

Channel Bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	30.16	6.35	6.1	29.91	33.00	-3.09
	2506.00	H	31.85	6.35	6.1	31.60	33.00	-1.40
40620	2593.00	V	29.92	6.47	6.32	29.77	33.00	-3.23
	2593.00	H	31.97	6.47	6.33	31.83	33.00	-1.17
41490	2680.00	V	29.58	6.69	6.58	29.47	33.00	-3.53
	2680.00	H	30.88	6.67	6.55	30.76	33.00	-2.24

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



For Antenna P/N: AN2600-5002BSM

Channel Bandwidth: 5MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	6.22	6.35	6.1	5.97	33.00	-27.03
	2498.50	H	23.87	6.35	6.1	23.62	33.00	-9.38
40620	2593.00	V	9.17	6.48	6.35	9.04	33.00	-23.96
	2593.00	H	24.35	6.48	6.34	24.21	33.00	-8.79
41565	2687.50	V	6.16	6.7	6.58	6.04	33.00	-26.96
	2687.50	H	23.26	6.7	6.58	23.14	33.00	-9.86

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	7.74	6.35	6.1	7.49	33.00	-25.51
	2498.50	H	25.18	6.35	6.1	24.93	33.00	-8.07
40620	2593.00	V	10.13	6.48	6.34	9.99	33.00	-23.01
	2593.00	H	25.2	6.48	6.34	25.06	33.00	-7.94
41565	2687.50	V	6.69	6.7	6.59	6.58	33.00	-26.42
	2687.50	H	23.75	6.7	6.58	23.63	33.00	-9.37



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	5.13	6.35	6.1	4.88	33.00	-28.12
	2501.00	H	22.58	6.35	6.1	22.33	33.00	-10.67
40620	2593.00	V	7.3	6.48	6.33	7.15	33.00	-25.85
	2593.00	H	23.15	6.48	6.33	23.00	33.00	-10.00
41540	2685.00	V	4.96	6.69	6.57	4.84	33.00	-28.16
	2685.00	H	21.82	6.69	6.57	21.70	33.00	-11.30

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	5.02	6.35	6.1	4.77	33.00	-28.23
	2501.00	H	23.42	6.35	6.1	23.17	33.00	-9.83
40620	2593.00	V	7.49	6.48	6.35	7.36	33.00	-25.64
	2593.00	H	25.22	6.48	6.34	25.08	33.00	-7.92
41540	2685.00	V	5.29	6.69	6.58	5.18	33.00	-27.82
	2685.00	H	22.46	6.7	6.59	22.35	33.00	-10.65



Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	2.94	6.35	6.11	2.70	33.00	-30.30
	2506.00	H	20.94	6.35	6.1	20.69	33.00	-12.31
40620	2593.00	V	6.26	6.48	6.34	6.12	33.00	-26.88
	2593.00	H	21.27	6.49	6.35	21.13	33.00	-11.87
41490	2680.00	V	3.29	6.68	6.57	3.18	33.00	-29.82
	2680.00	H	20.57	6.7	6.58	20.45	33.00	-12.55

Channel Bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	4.58	6.34	6.09	4.33	33.00	-28.67
	2506.00	H	22.11	6.34	6.09	21.86	33.00	-11.14
40620	2593.00	V	7.15	6.49	6.35	7.01	33.00	-25.99
	2593.00	H	22.79	6.48	6.34	22.65	33.00	-10.35
41490	2680.00	V	4.15	6.68	6.56	4.03	33.00	-28.97
	2680.00	H	21.46	6.69	6.58	21.35	33.00	-11.65

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



For Antenna P/N: AN2600-6008BSM

Channel Bandwidth: 5MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	28.63	6.34	6.1	28.39	33.00	-4.61
	2498.50	H	16.89	6.34	6.09	16.64	33.00	-16.36
40620	2593.00	V	10.2	6.48	6.34	10.06	33.00	-22.94
	2593.00	H	27.88	6.48	6.34	27.74	33.00	-5.26
41565	2687.50	V	29.67	6.7	6.58	29.55	33.00	-3.45
	2687.50	H	17.36	6.69	6.58	17.25	33.00	-15.75

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39675	2498.50	V	29.09	6.34	6.1	28.85	33.00	-4.15
	2498.50	H	16.7	6.34	6.09	16.45	33.00	-16.55
40620	2593.00	V	29.63	6.48	6.34	29.49	33.00	-3.51
	2593.00	H	18.62	6.48	6.34	18.48	33.00	-14.52
41565	2687.50	V	30.25	6.69	6.58	30.14	33.00	-2.86
	2687.50	H	18.02	6.7	6.58	17.90	33.00	-15.10



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	24.77	6.35	6.1	24.52	33.00	-8.48
	2501.00	H	12.53	6.35	6.1	12.28	33.00	-20.72
40620	2593.00	V	24.89	6.48	6.33	24.74	33.00	-8.26
	2593.00	H	13.6	6.48	6.33	13.45	33.00	-19.55
41540	2685.00	V	26.78	6.69	6.57	26.66	33.00	-6.34
	2685.00	H	14.13	6.69	6.58	14.02	33.00	-18.98

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39700	2501.00	V	26.27	6.35	6.1	26.02	33.00	-6.98
	2501.00	H	13.92	6.35	6.1	13.67	33.00	-19.33
40620	2593.00	V	26.04	6.48	6.35	25.91	33.00	-7.09
	2593.00	H	14.99	6.48	6.35	14.86	33.00	-18.14
41540	2685.00	V	27.64	6.69	6.58	27.53	33.00	-5.47
	2685.00	H	15.11	6.69	6.57	14.99	33.00	-18.01



Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	23.72	6.35	6.1	23.47	33.00	-9.53
	2506.00	H	10.97	6.37	6.13	10.73	33.00	-22.27
40620	2593.00	V	23.33	6.47	6.33	23.19	33.00	-9.81
	2593.00	H	12.1	6.47	6.33	11.96	33.00	-21.04
41490	2680.00	V	25.56	6.67	6.55	25.44	33.00	-7.56
	2680.00	H	13.62	6.67	6.56	13.51	33.00	-19.49

Channel Bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39750	2506.00	V	24.62	6.35	6.1	24.37	33.00	-8.63
	2506.00	H	11.64	6.35	6.1	11.39	33.00	-21.61
40620	2593.00	V	24.47	6.47	6.33	24.33	33.00	-8.67
	2593.00	H	12.97	6.47	6.33	12.83	33.00	-20.17
41490	2680.00	V	26.58	6.68	6.56	26.46	33.00	-6.54
	2680.00	H	13.69	6.67	6.55	13.57	33.00	-19.43

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



7.2 FREQUENCY STABILITY MEASUREMENT

LIMIT

According to the FCC part 27.54 shall be tested the frequency stability. The rule is defined that” The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 1055(a)(1) $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

TEST PROCEDURE

1. Because of the measure the carrier frequency under the condition of the AFC lock, it shall be used the mobile station in the LTE link mode. This is accomplished with the use of the communication simulator station. The oven room could control the temperatures and humidity.
2. Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.
3. Laptop pc is connected the external power supply to control the AC input power. The various Volts from the minimum 126.5 Volts to 93.5 Volts. Each step shall be record the frequency error rate.
4. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing.
5. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.



TEST RESULTS

FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT:

Reference Frequency: LTE Band 2 2593 MHz @ 20°C								
Limit: +/- 2.5 ppm = 6482.5Hz								
Power Supply	Environment	Frequency	Delta (Hz)	Frequency	Delta (Hz)	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(Hz)		(Hz)		(Hz)		
4.07	20	2593000011	9	2593000005	-20	2593000002	-7	6482.5
3.7	20	2593000002	0	2593000025	0	2593000009	0	6482.5
3.145	20	2593000015	13	2593000002	-23	2593000012	3	6482.5

FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT:

Reference Frequency: LTE Band 2 2593MHz @ 20°C								
Limit: +/- 2.5 ppm = 6482.5Hz								
Power Supply	Environment	5M	Delta (Hz)	10M	Delta (Hz)	20M	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	Frequency (Hz)		Frequency (Hz)		Frequency (Hz)		
3.7	50	2592999998	-4	2592999995	-30	2592999979	-46	6482.5
3.7	40	2592999995	-7	2592999998	-27	2592999985	-40	6482.5
3.7	30	2592999994	-8	2592999995	-30	2592999986	-39	6482.5
3.7	20	2593000002	0	2593000025	0	2593000009	0	6482.5
3.7	10	2592999995	-7	2592999999	-26	2592999995	-30	6482.5
3.7	0	2592999996	-6	2592999992	-33	2592999991	-34	6482.5
3.7	-10	2592999998	-4	2592999994	-31	2592999995	-30	6482.5
3.7	-20	2592999997	-5	2592999995	-30	2593000011	-14	6482.5
3.7	-30	2592999992	-10	2592999988	-37	2593000005	-20	6482.5



7.3 OCCUPIED BANDWIDTH MEASUREMENT

LIMITS

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

TEST PROCEDURES

1. The EUT makes a phone call to the communication simulator. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)
2. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
3. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



TEST RESULTS

CHANNEL BANDWIDTH: 5MHz / QPSK

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2498.50	4.5184
Mid	2593.00	4.5212
High	2687.50	4.5427

CHANNEL BANDWIDTH: 5MHz / 16QAM

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2498.50	4.5124
Mid	2593.00	4.5217
High	2687.50	4.5178

CHANNEL BANDWIDTH: 10MHz / QPSK

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2501.00	8.9532
Mid	2593.00	8.9536
High	2685.00	8.9507

CHANNEL BANDWIDTH: 10MHz / 16QAM

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2501.00	8.9375
Mid	2593.00	8.9336
High	2685.00	8.9354



CHANNEL BANDWIDTH: 20MHz / QPSK

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2506.00	17.8526
Mid	2593.00	17.8380
High	2680.00	17.8368

CHANNEL BANDWIDTH: 20MHz / 16QAM

Channel	FREQUENCY (MHz)	Occupied bandwidth (MHz)
Low	2506.00	17.8496
Mid	2593.00	17.8320
High	2680.00	

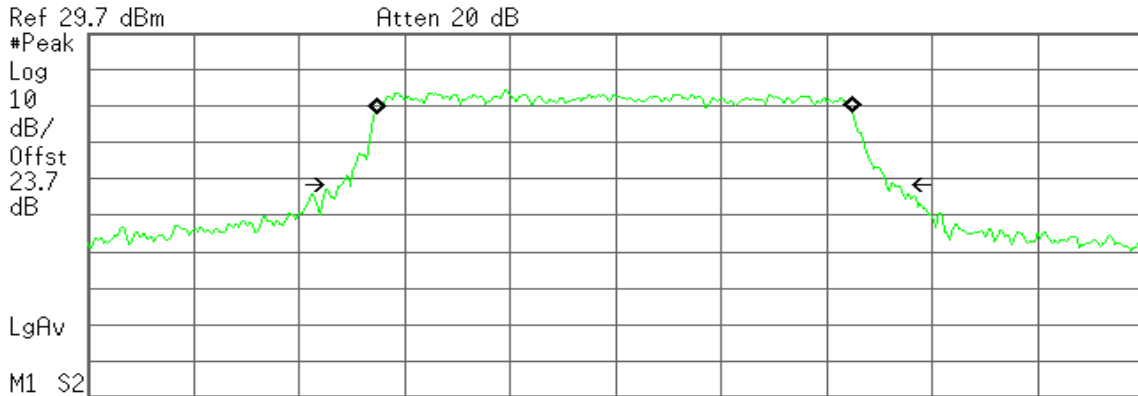


CHANNEL BANDWIDTH: 5MHz / QPSK

CH Low

Agilent

R T



Center 2.498 50 GHz Span 10 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth
4.5184 MHz

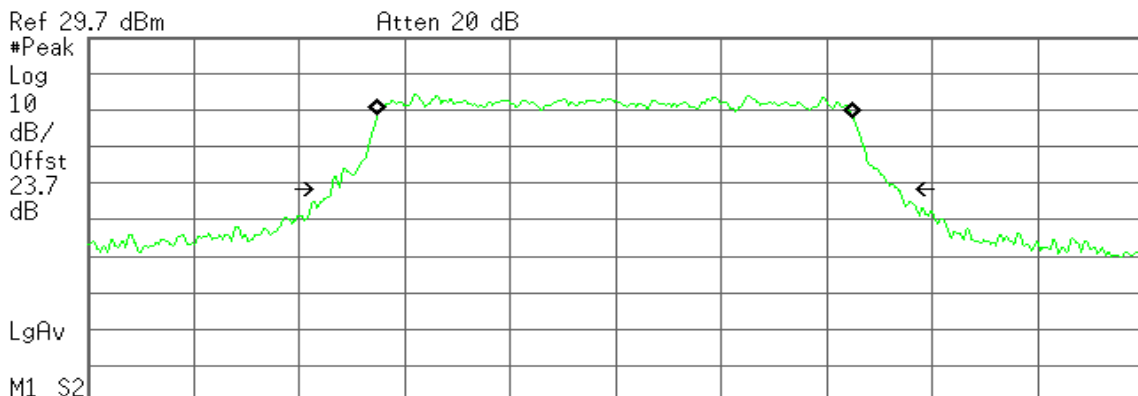
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -10.228 kHz
x dB Bandwidth 5.249 MHz

CH Mid

Agilent

R T



Center 2.593 00 GHz Span 10 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth
4.5212 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

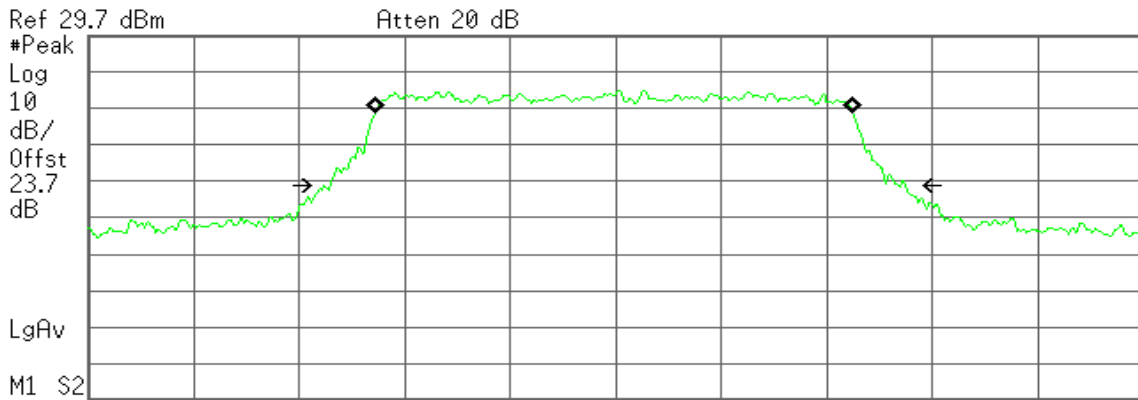
Transmit Freq Error -2.356 kHz
x dB Bandwidth 5.370 MHz



CH High

Agilent

R T



Center 2.687 50 GHz Span 10 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth
4.5427 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

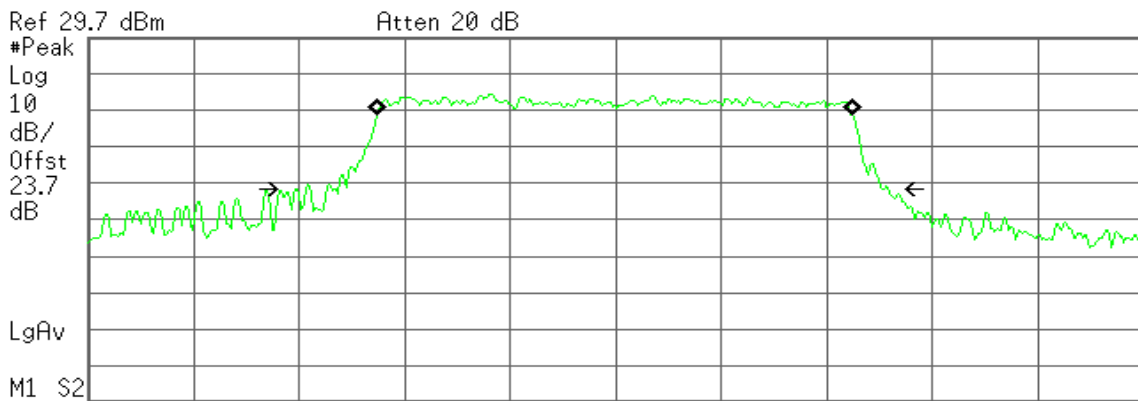
Transmit Freq Error -17.664 kHz
x dB Bandwidth 5.456 MHz

CHANNEL BANDWIDTH: 5MHz / 16QAM

CH Low

Agilent

R T



Center 2.498 50 GHz Span 10 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)

Occupied Bandwidth
4.5124 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

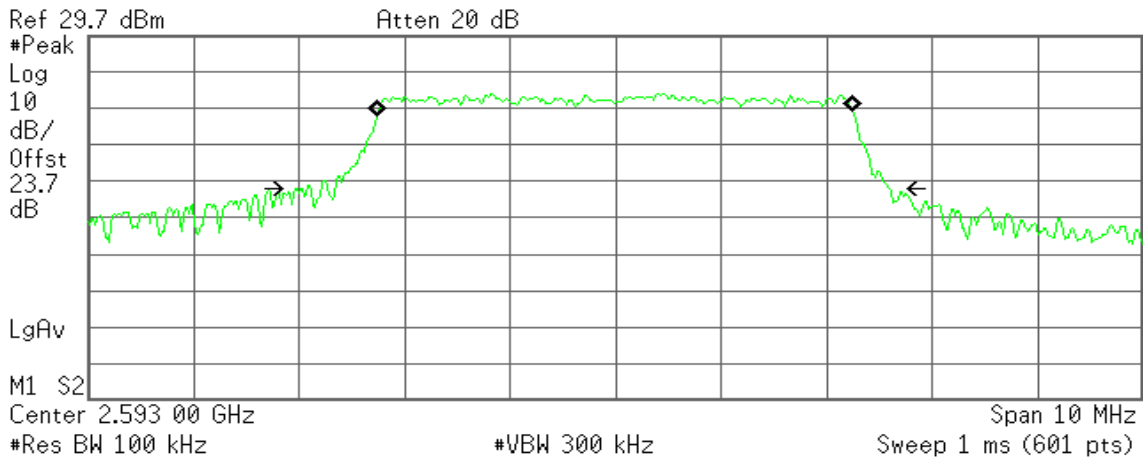
Transmit Freq Error -10.032 kHz
x dB Bandwidth 5.622 MHz



CH Mid

Agilent

R T



Occupied Bandwidth
4.5217 MHz

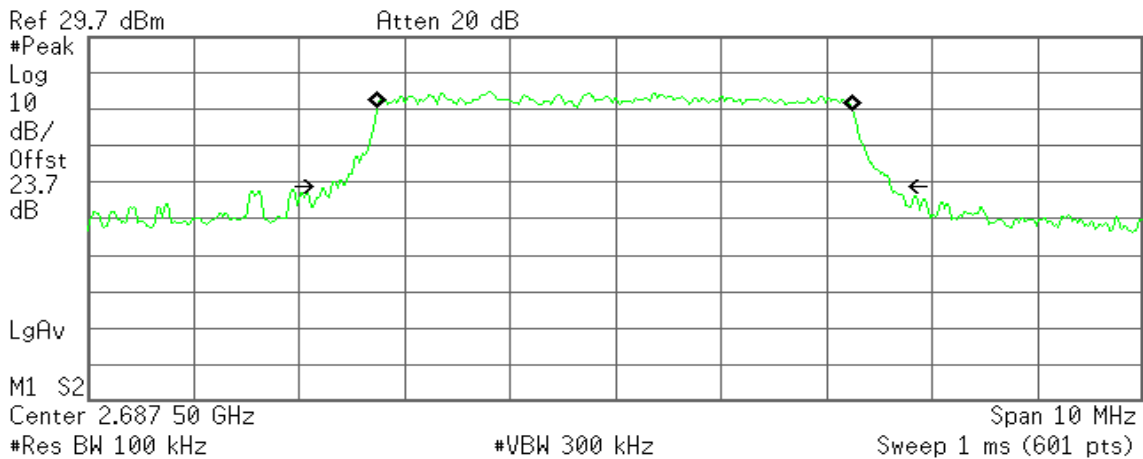
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -6.272 kHz
x dB Bandwidth 5.585 MHz

CH High

Agilent

R T



Occupied Bandwidth
4.5178 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.927 kHz
x dB Bandwidth 5.309 MHz

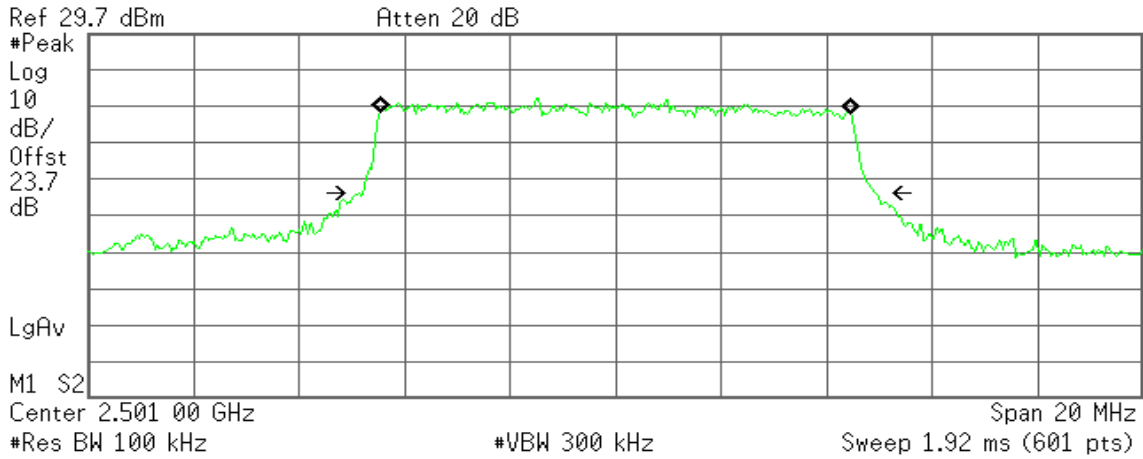


CHANNEL BANDWIDTH: 10MHz / QPSK

CH Low

Agilent

R T



Occupied Bandwidth
8.9532 MHz

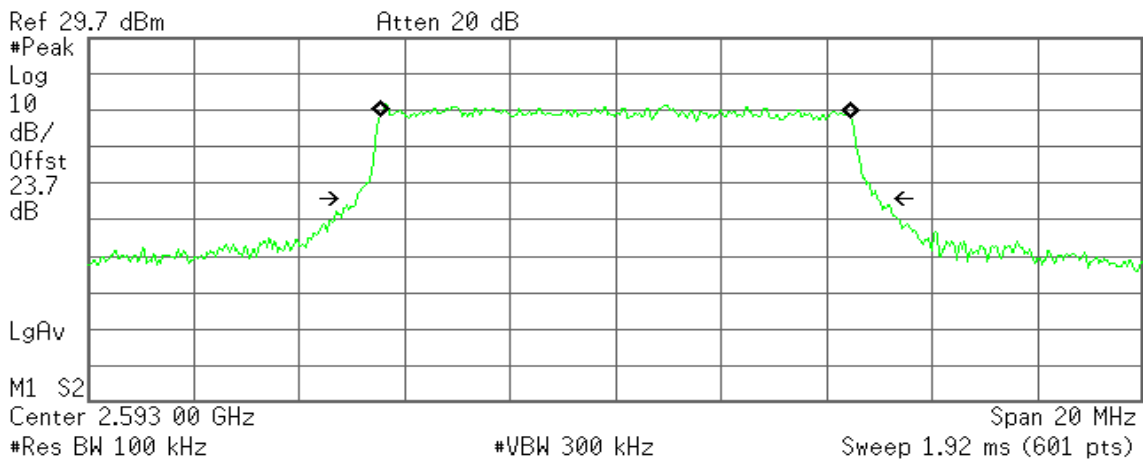
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -3.881 kHz
x dB Bandwidth 9.720 MHz

CH Mid

Agilent

R T



Occupied Bandwidth
8.9536 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

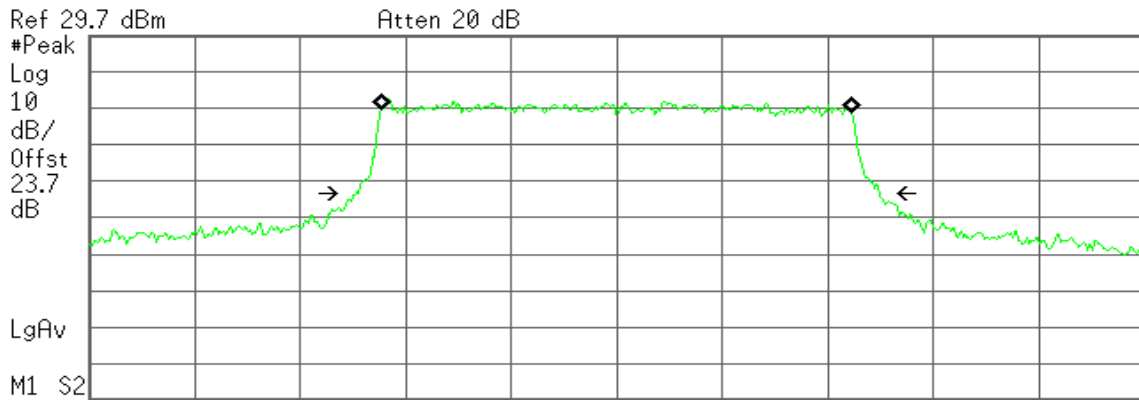
Transmit Freq Error -1.259 kHz
x dB Bandwidth 9.887 MHz



CH High

Agilent

R T



Center 2.685 00 GHz Span 20 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1.92 ms (601 pts)

Occupied Bandwidth
8.9507 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

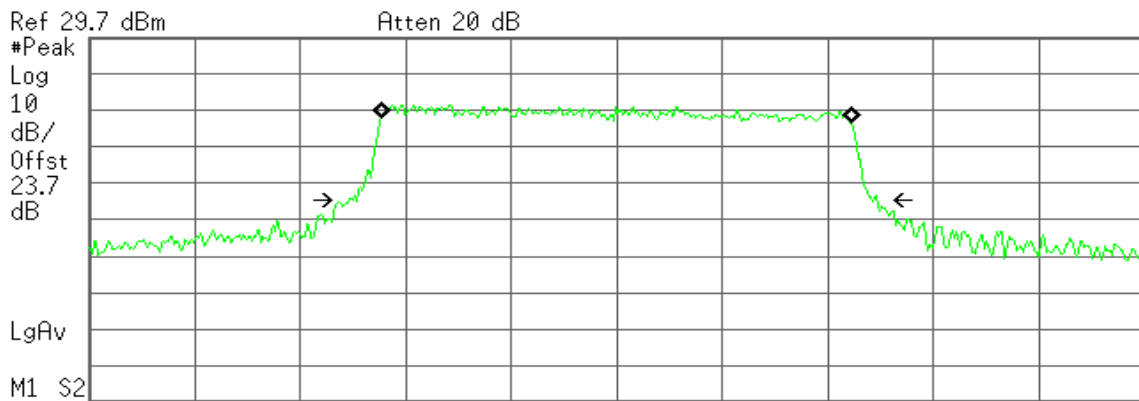
Transmit Freq Error -6.234 kHz
x dB Bandwidth 9.947 MHz

CHANNEL BANDWIDTH: 10MHz / 16QAM

CH Low

Agilent

R T



Center 2.501 00 GHz Span 20 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1.92 ms (601 pts)

Occupied Bandwidth
8.9375 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

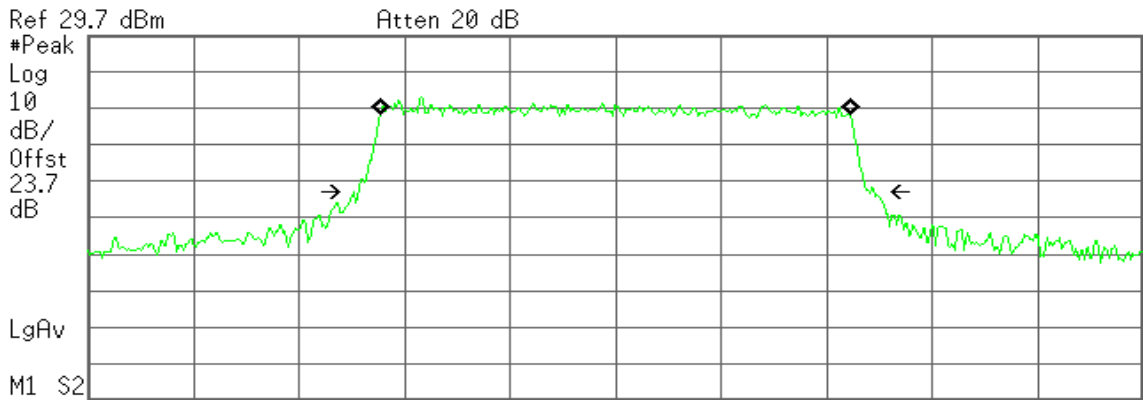
Transmit Freq Error -12.566 kHz
x dB Bandwidth 10.028 MHz



CH Mid

Agilent

R T



Center 2.593 00 GHz Span 20 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.92 ms (601 pts)

Occupied Bandwidth
8.9336 MHz

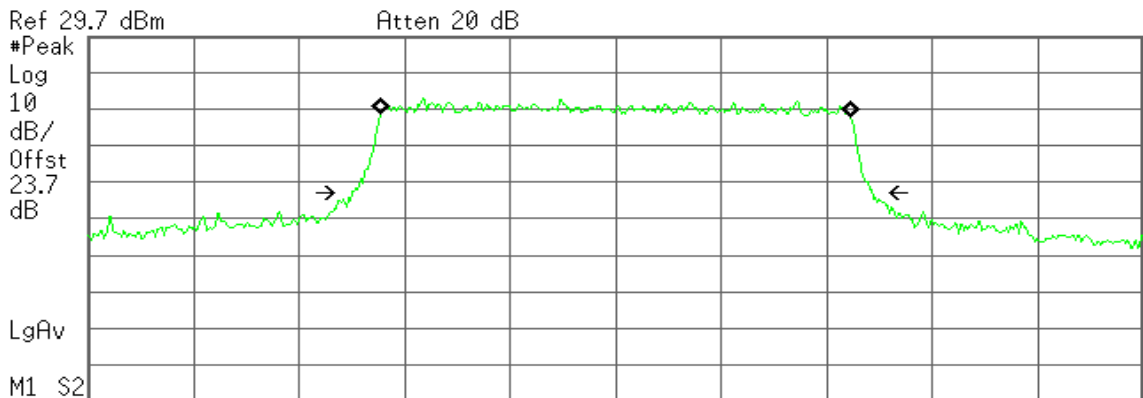
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.959 kHz
x dB Bandwidth 9.800 MHz

CH High

Agilent

R T



Center 2.685 00 GHz Span 20 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.92 ms (601 pts)

Occupied Bandwidth
8.9354 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.848 kHz
x dB Bandwidth 9.884 MHz

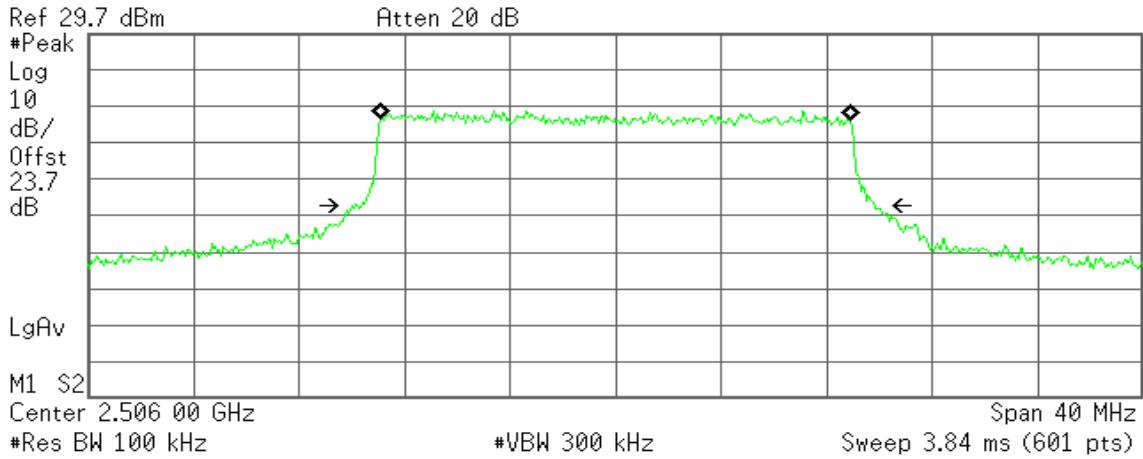


CHANNEL BANDWIDTH: 20MHz / QPSK

CH Low

Agilent

R T



Occupied Bandwidth
17.8526 MHz

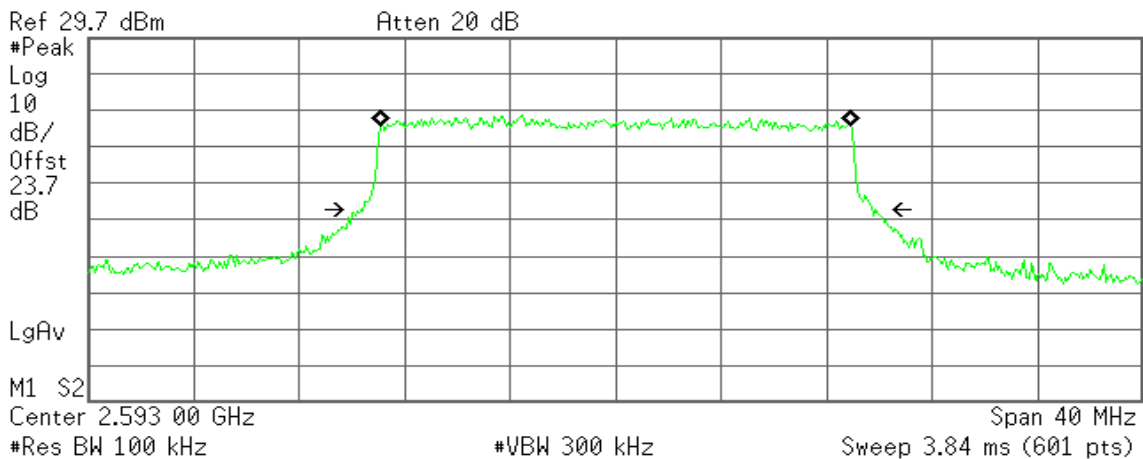
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -3.614 kHz
x dB Bandwidth 19.730 MHz

CH Mid

Agilent

R T



Occupied Bandwidth
17.8380 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

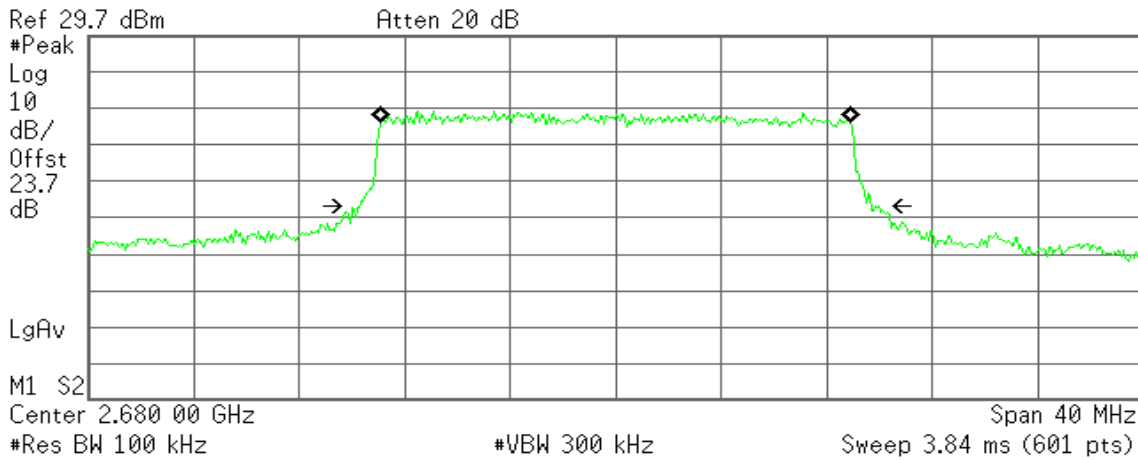
Transmit Freq Error 11.067 kHz
x dB Bandwidth 19.552 MHz



CH High

Agilent

R T



Occupied Bandwidth
17.8368 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

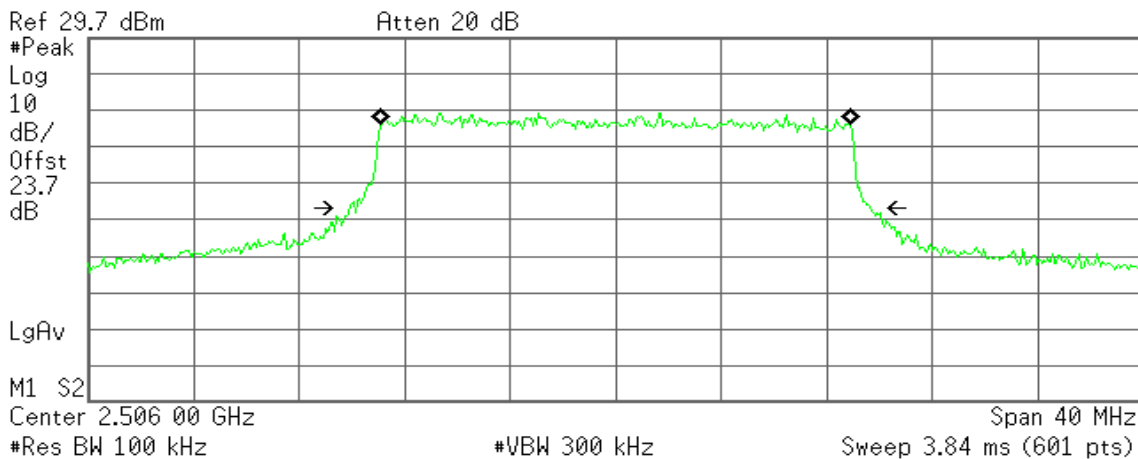
Transmit Freq Error 4.804 kHz
x dB Bandwidth 19.593 MHz

CHANNEL BANDWIDTH: 20MHz / 16QAM

CH Low

Agilent

R T



Occupied Bandwidth
17.8496 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

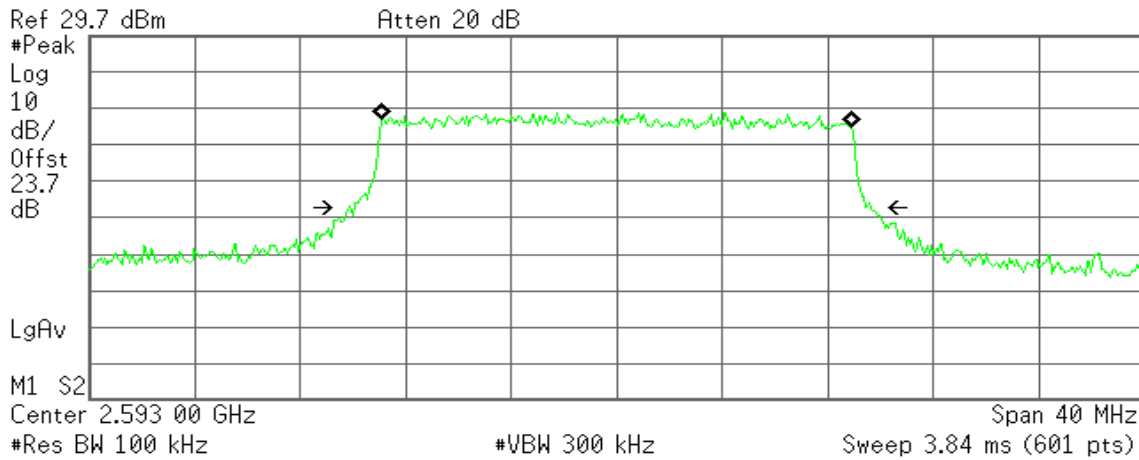
Transmit Freq Error -6.022 kHz
x dB Bandwidth 19.763 MHz



CH Mid

Agilent

R T



Occupied Bandwidth
17.8320 MHz

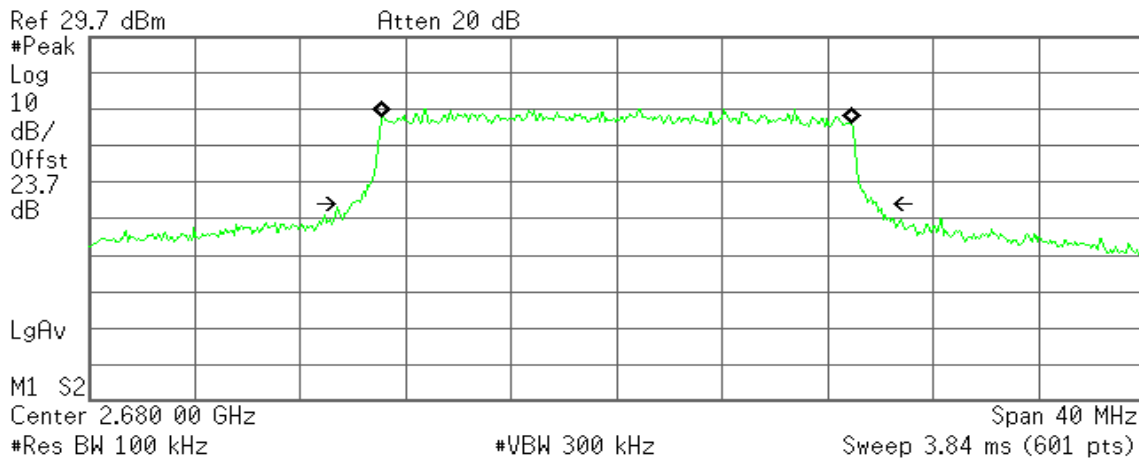
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -15.715 kHz
x dB Bandwidth 19.784 MHz

CH High

Agilent

R T



Occupied Bandwidth
17.8339 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -8.089 kHz
x dB Bandwidth 19.900 MHz



7.4 PEAK TO AVERAGE RATIO

LIMIT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1%.



TEST RESULTS

CHANNEL BANDWIDTH: 5MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2498.50	9.42
Mid	2593.00	8.89
High	2687.50	8.02

CHANNEL BANDWIDTH: 5MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2498.50	9.48
Mid	2593.00	8.78
High	2687.50	8.35

CHANNEL BANDWIDTH: 10MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2501.00	8.22
Mid	2593.00	8.99
High	2685.00	9.20

CHANNEL BANDWIDTH: 10MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2501.00	9.56
Mid	2593.00	9.00
High	2685.00	9.39



CHANNEL BANDWIDTH: 20MHz / QPSK / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2506.00	10.14
Mid	2593.00	10.33
High	2680.00	9.78

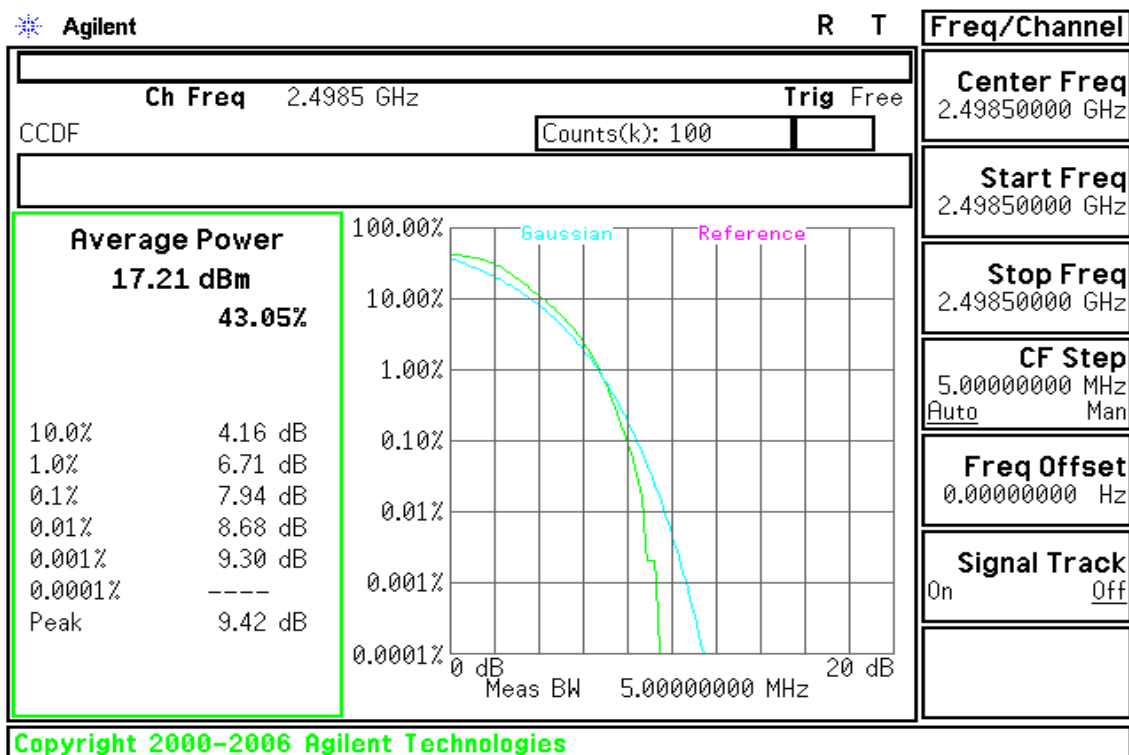
CHANNEL BANDWIDTH: 20MHz / 16QAM / 100%RB

Channel	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
Low	2506.00	10.83
Mid	2593.00	11.85
High	2680.00	11.80

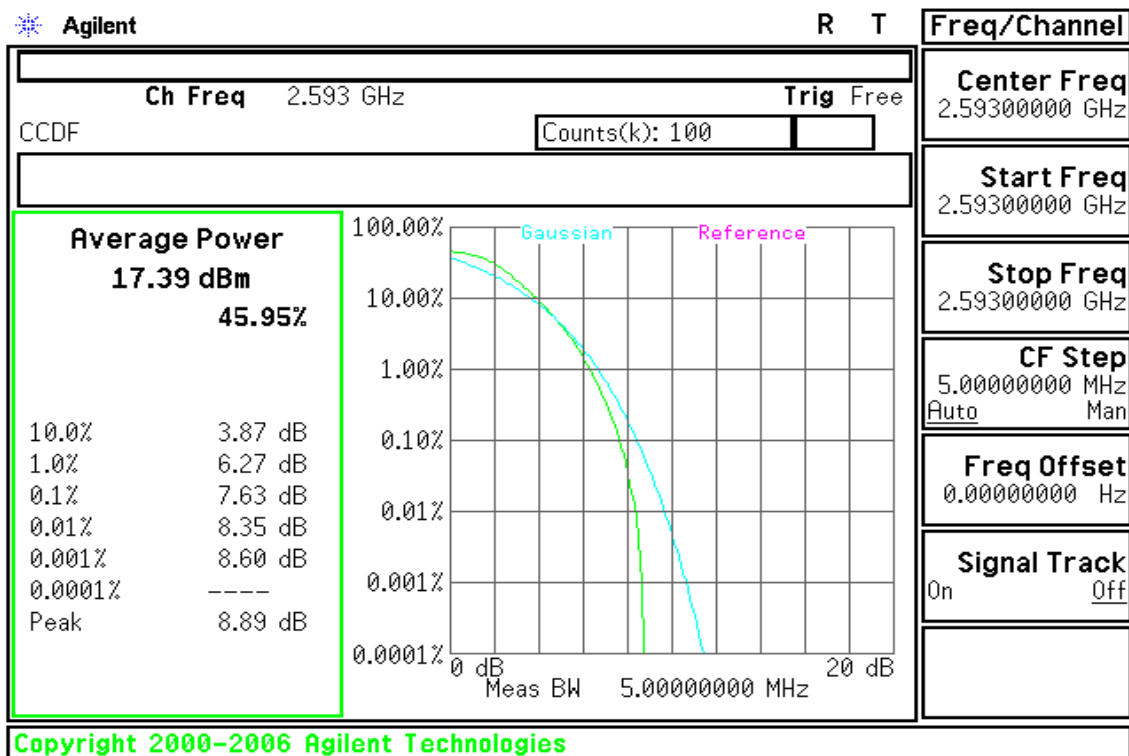


CHANNEL BANDWIDTH: 5MHz / QPSK

CH Low



CH Mid

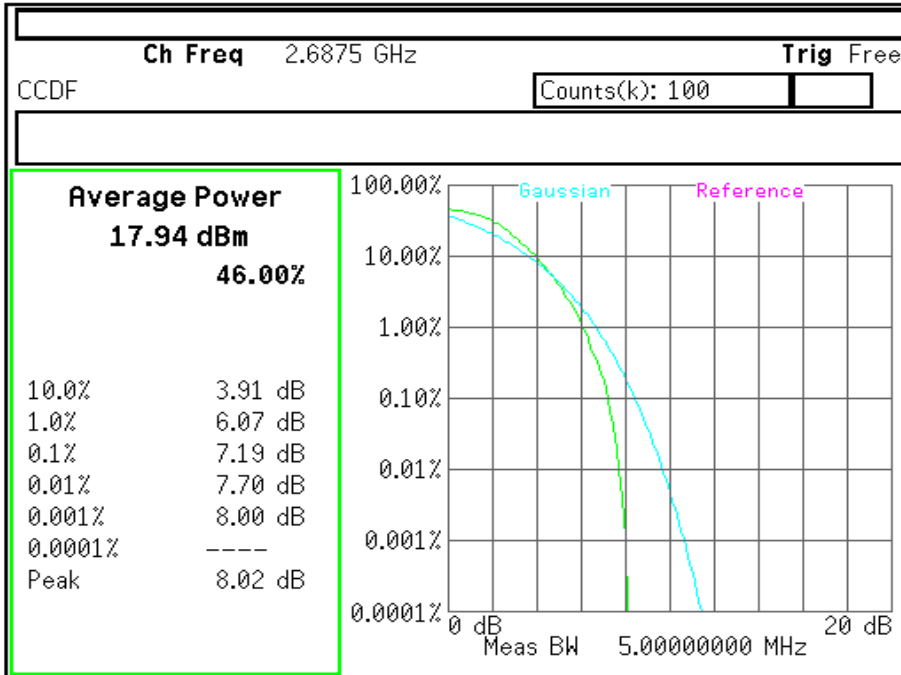




CH High

Agilent

R T



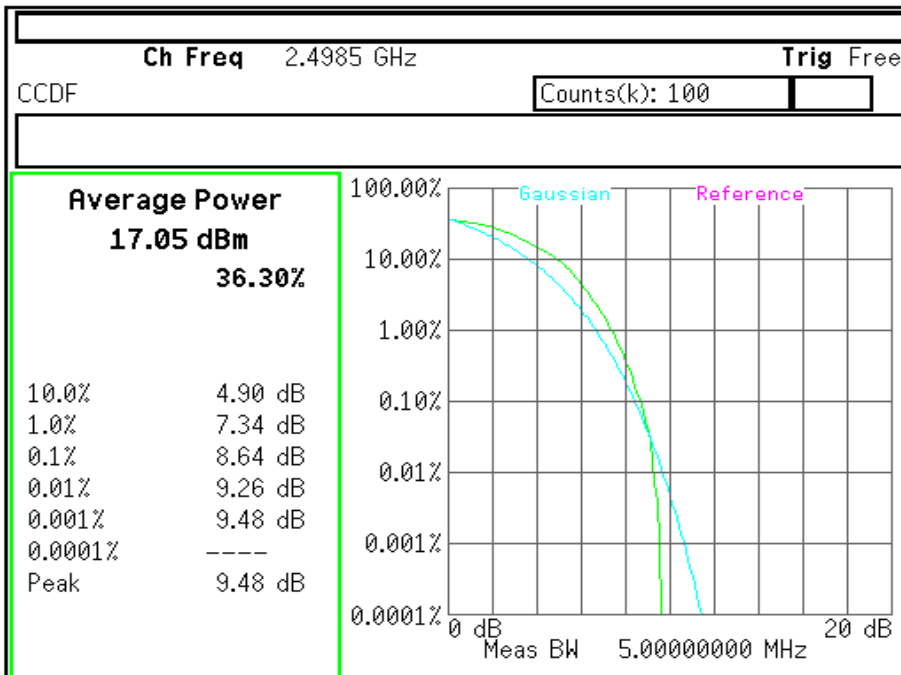
Freq/Channel
Center Freq 2.68750000 GHz
Start Freq 2.68750000 GHz
Stop Freq 2.68750000 GHz
CF Step 5.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

CHANNEL BANDWIDTH: 5MHz / 16QAM

CH Low

Agilent

R T



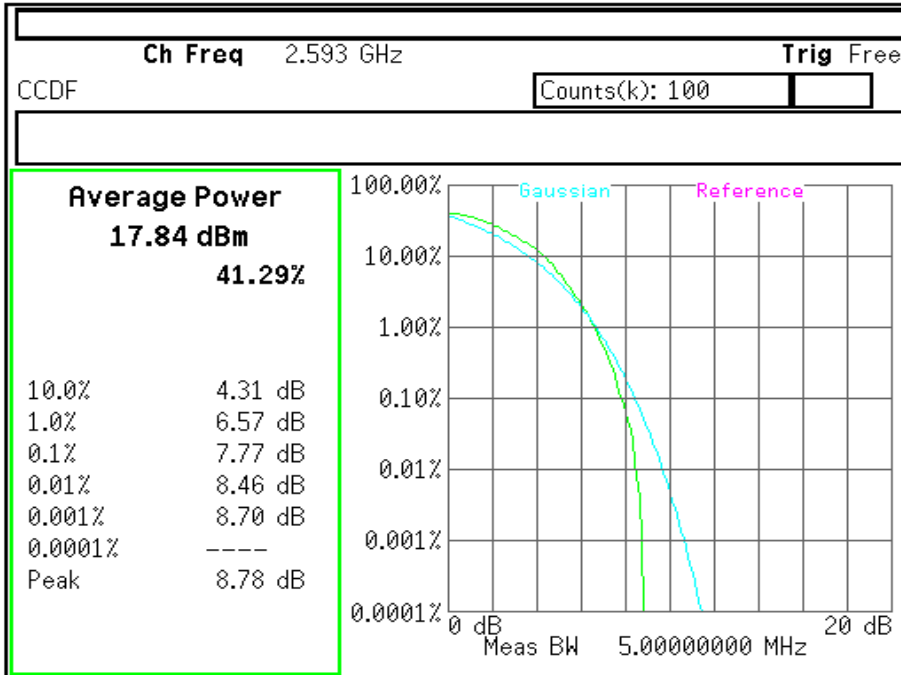
Freq/Channel
Center Freq 2.49850000 GHz
Start Freq 2.49850000 GHz
Stop Freq 2.49850000 GHz
CF Step 5.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off



CH Mid

Agilent

R T

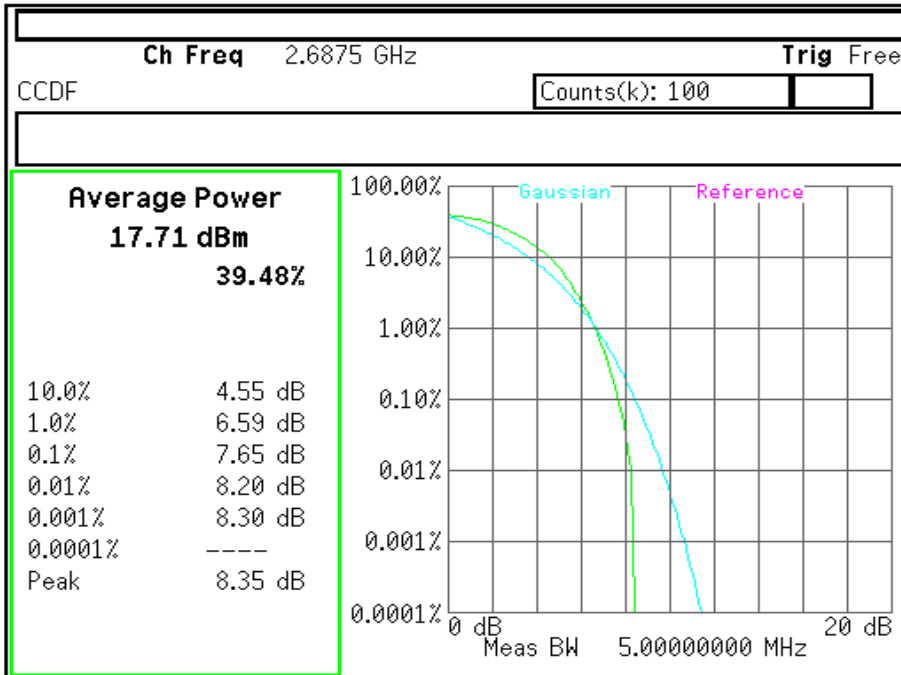


Freq/Channel
Center Freq 2.59300000 GHz
Start Freq 2.59300000 GHz
Stop Freq 2.59300000 GHz
CF Step 5.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

CH High

Agilent

R T

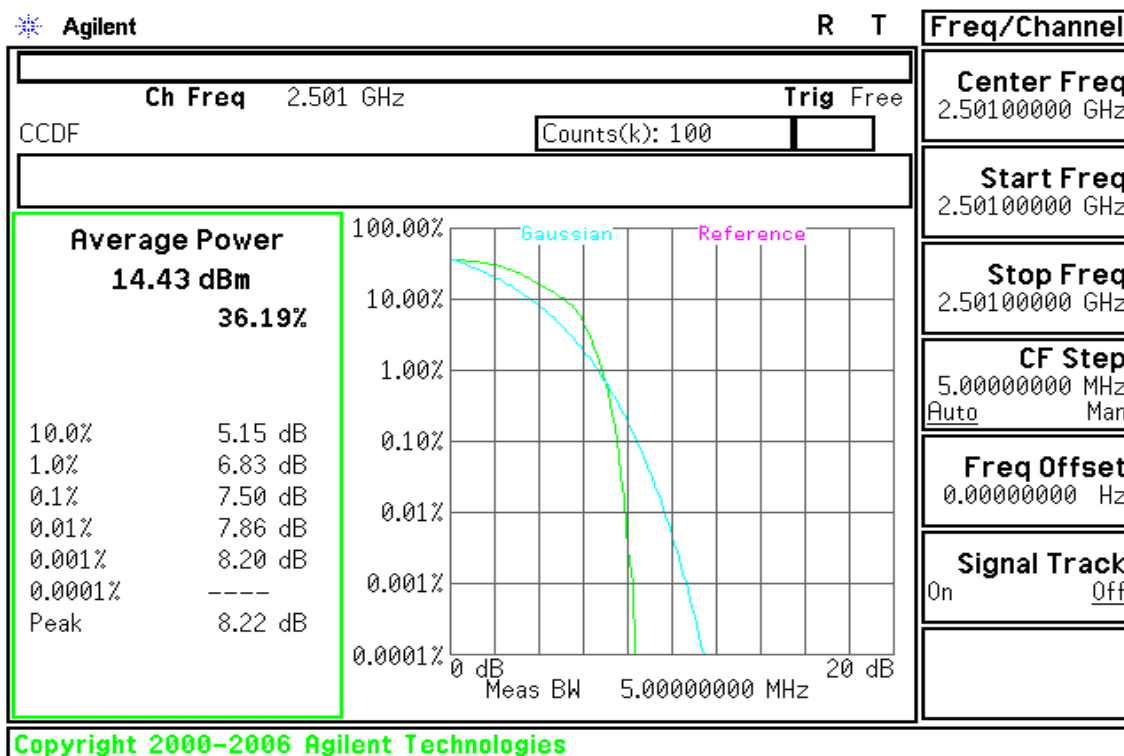


Freq/Channel
Center Freq 2.68750000 GHz
Start Freq 2.68750000 GHz
Stop Freq 2.68750000 GHz
CF Step 5.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

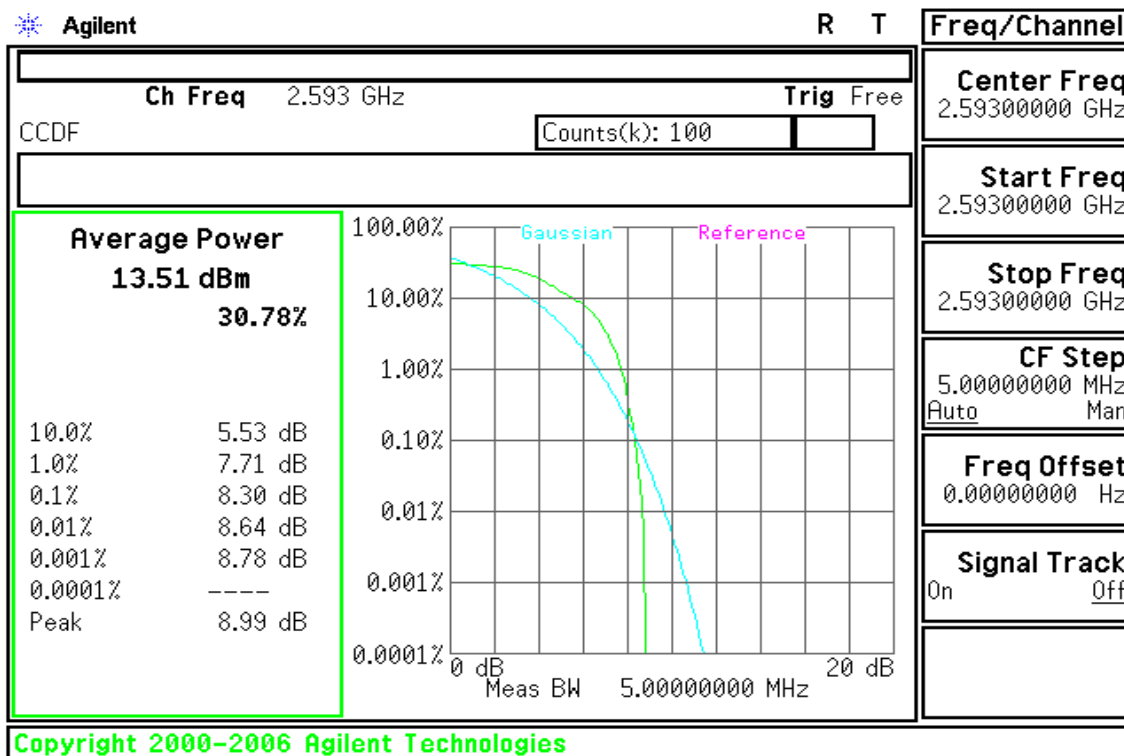


CHANNEL BANDWIDTH: 10MHz / QPSK

CH Low

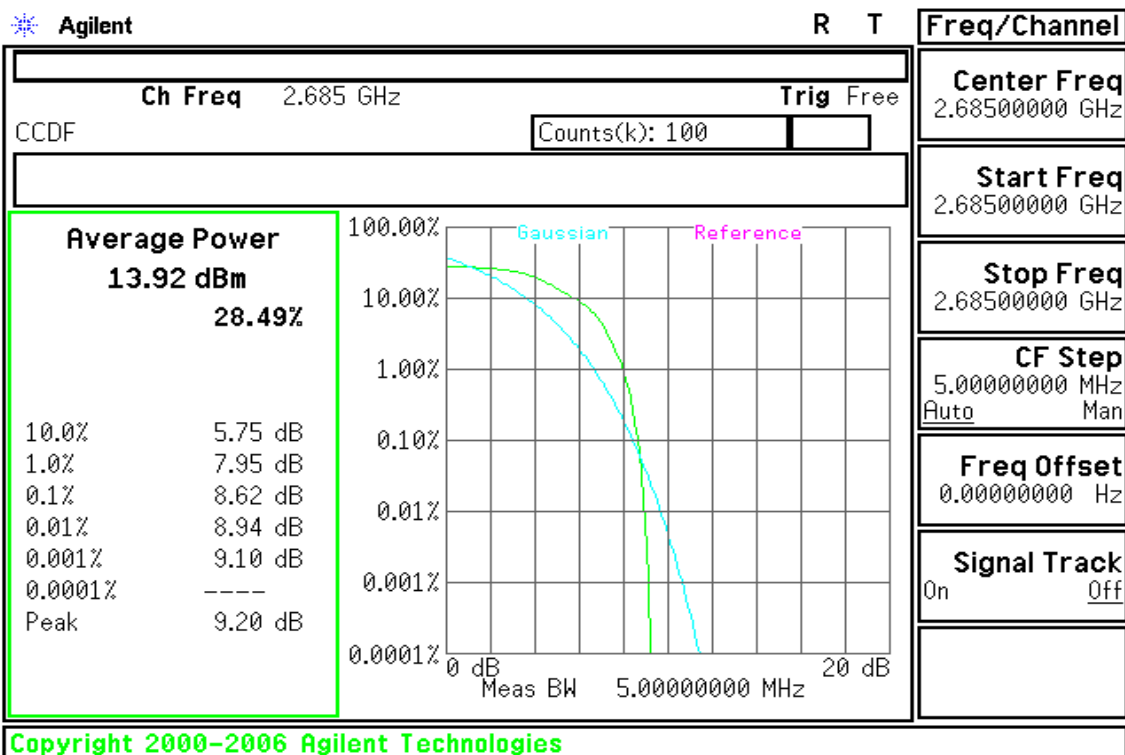


CH Mid



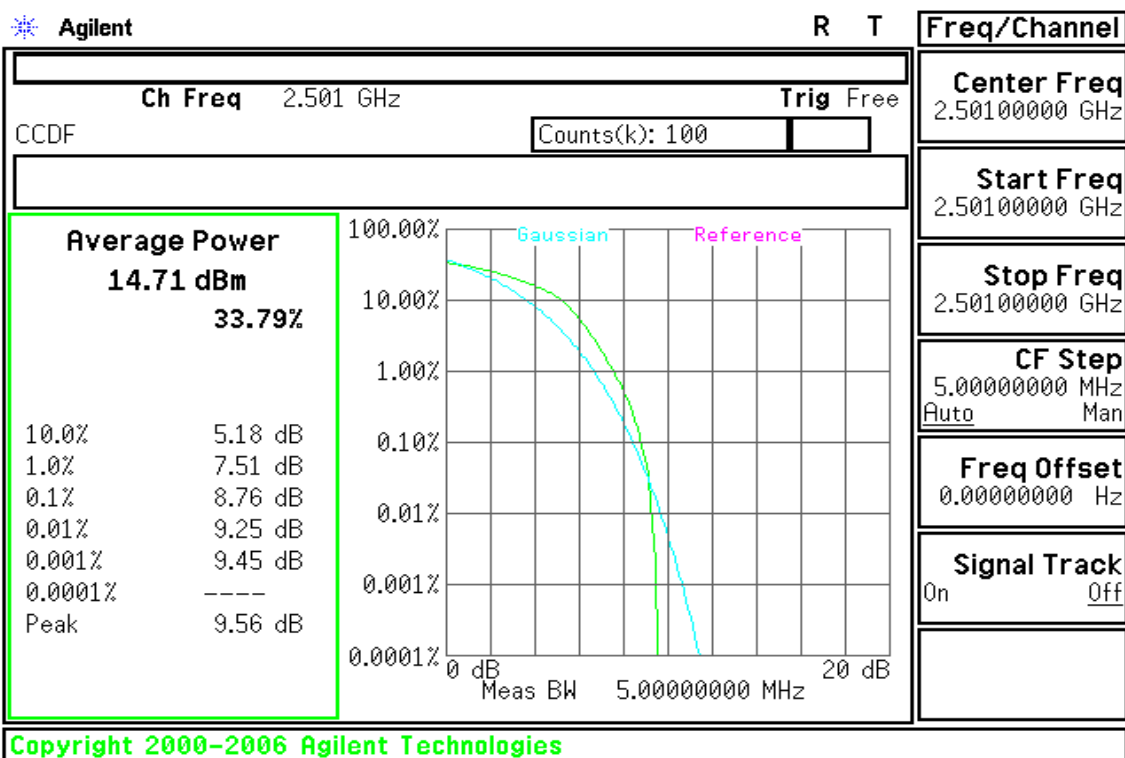


CH High



CHANNEL BANDWIDTH: 10MHz / 16QAM

CH Low





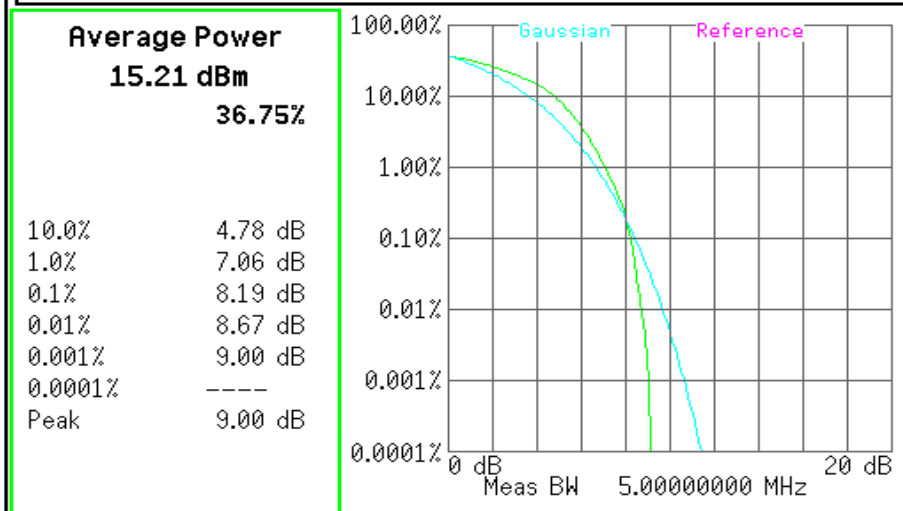
CH Mid

Agilent

R T

Ch Freq 2.593 GHz Trig Free

CCDF Counts(k): 100



Freq/Channel

Center Freq 2.59300000 GHz

Start Freq 2.59300000 GHz

Stop Freq 2.59300000 GHz

CF Step 5.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Copyright 2000-2006 Agilent Technologies

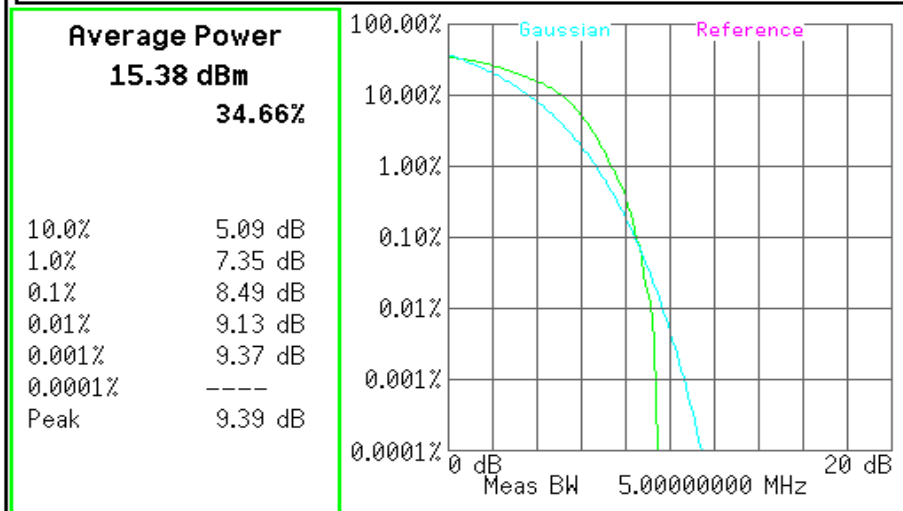
CH High

Agilent

R T

Ch Freq 2.685 GHz Trig Free

CCDF Counts(k): 100



Freq/Channel

Center Freq 2.68500000 GHz

Start Freq 2.68500000 GHz

Stop Freq 2.68500000 GHz

CF Step 5.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

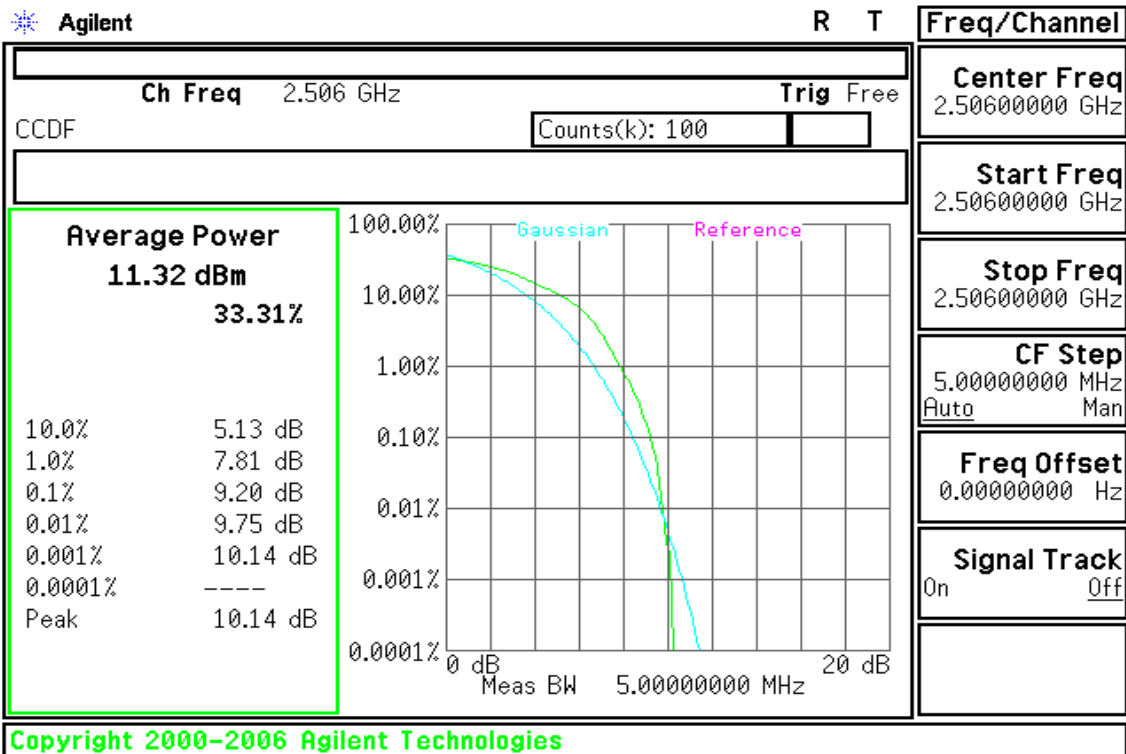
Signal Track On Off

Copyright 2000-2006 Agilent Technologies

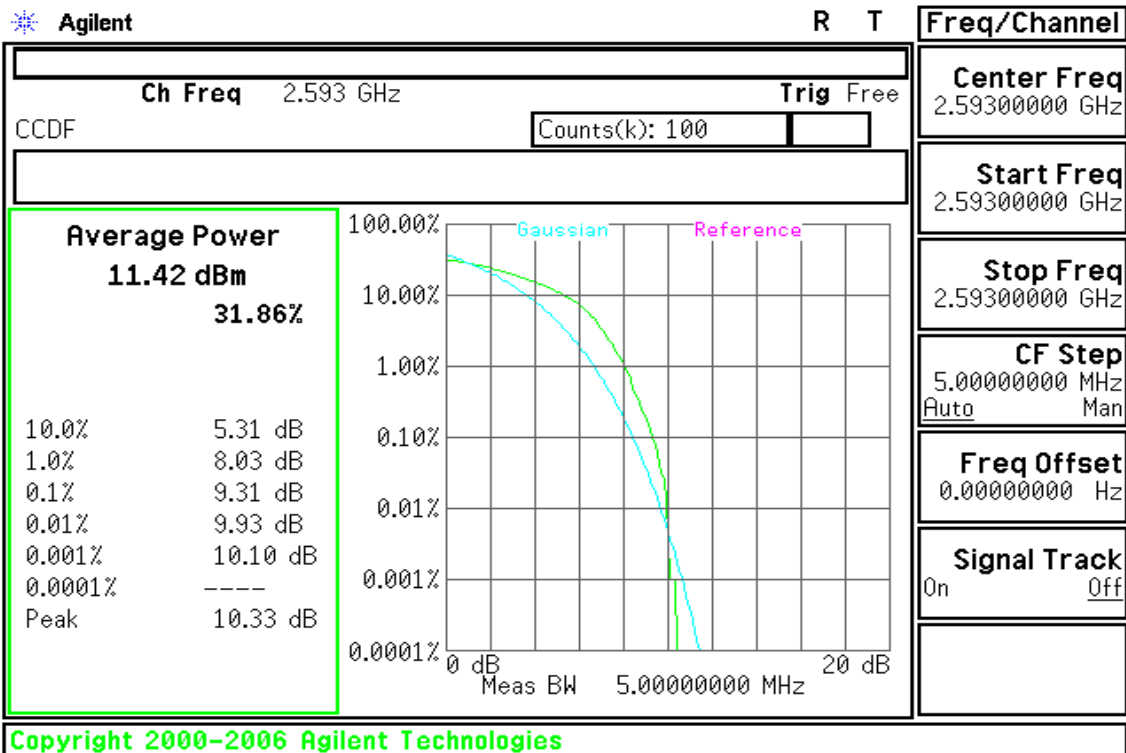


CHANNEL BANDWIDTH: 20MHz / QPSK

CH Low



CH Mid

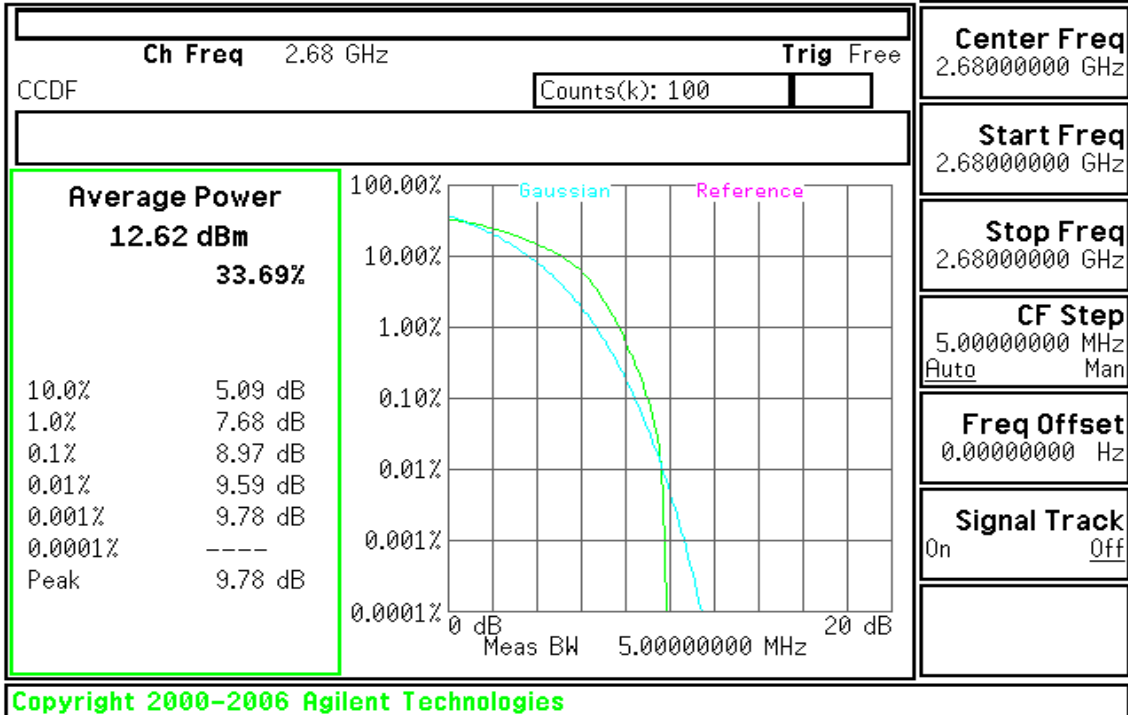




CH High

Agilent

R T

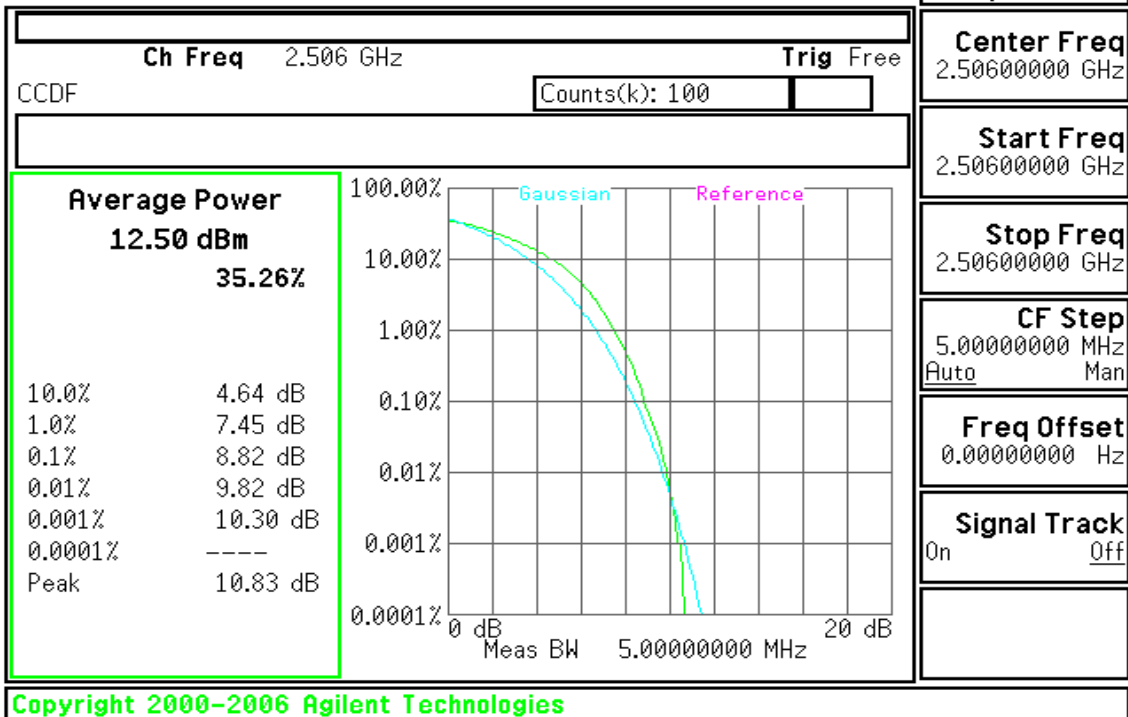


CHANNEL BANDWIDTH: 20MHz / 16QAM

CH Low

Agilent

R T





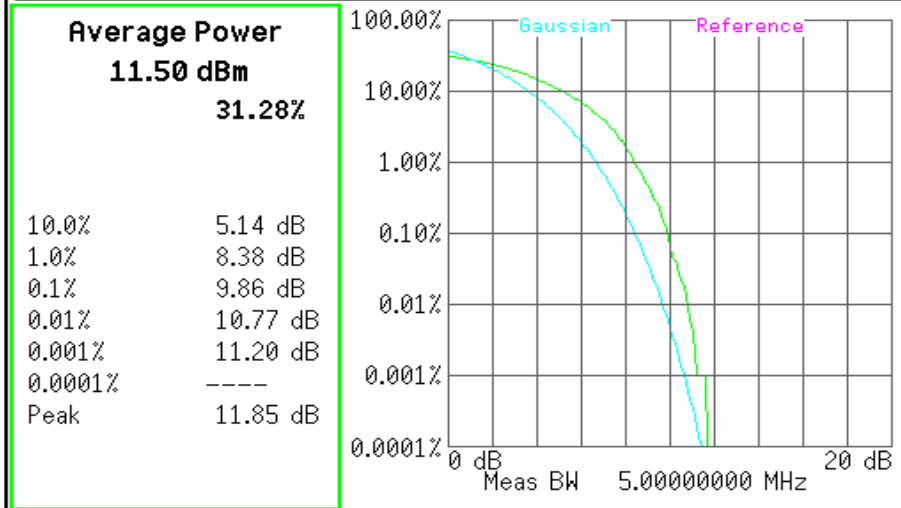
CH Mid

Agilent

R T

Ch Freq 2.593 GHz Trig Free

CCDF Counts(k): 100



Freq/Channel

Center Freq 2.59300000 GHz

Start Freq 2.59300000 GHz

Stop Freq 2.59300000 GHz

CF Step 5.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Copyright 2000-2006 Agilent Technologies

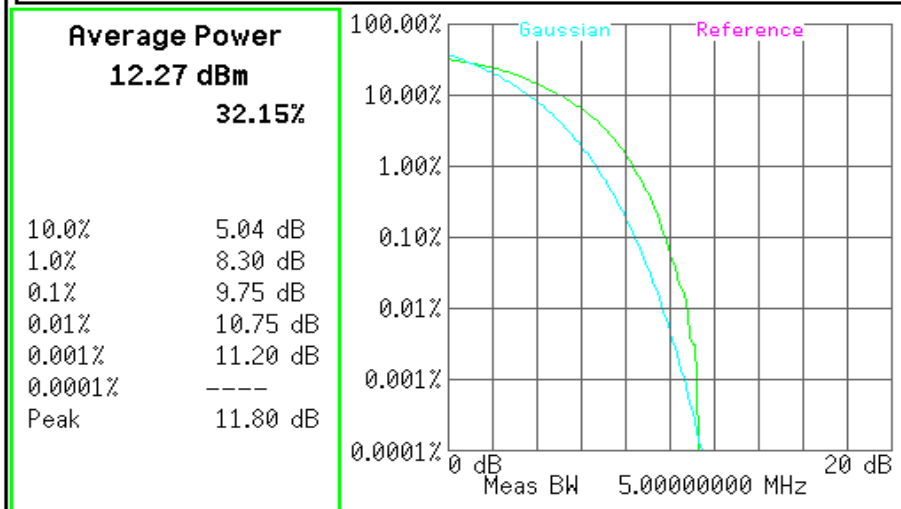
CH High

Agilent

R T

Ch Freq 2.68 GHz Trig Free

CCDF Counts(k): 100



Freq/Channel

Center Freq 2.68000000 GHz

Start Freq 2.68000000 GHz

Stop Freq 2.68000000 GHz

CF Step 5.00000000 MHz
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

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7.5 BAND EDGE MEASUREMENT

LIMIT

For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm . In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

TEST PROCEDURES

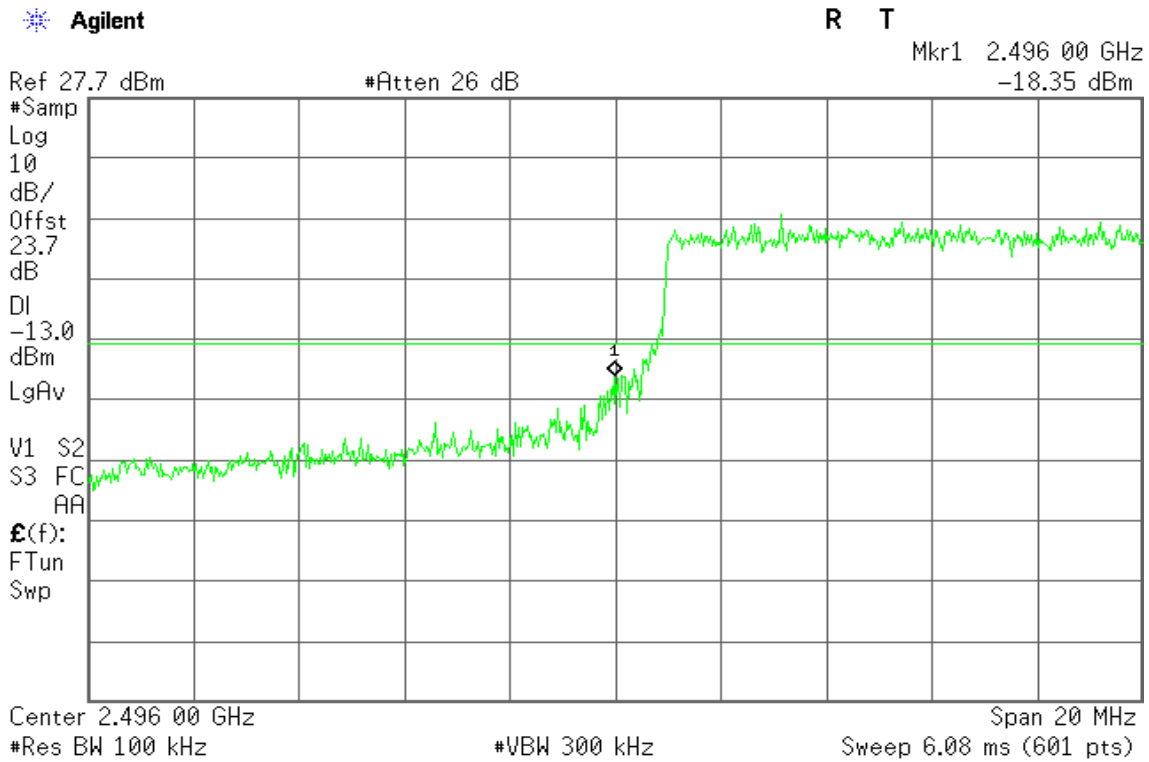
1. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
2. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss 7.2 dB in the transmitted path track.
3. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 50kHz and VB of the spectrum is 200kHz.
4. Record the max trace plot into the test report.



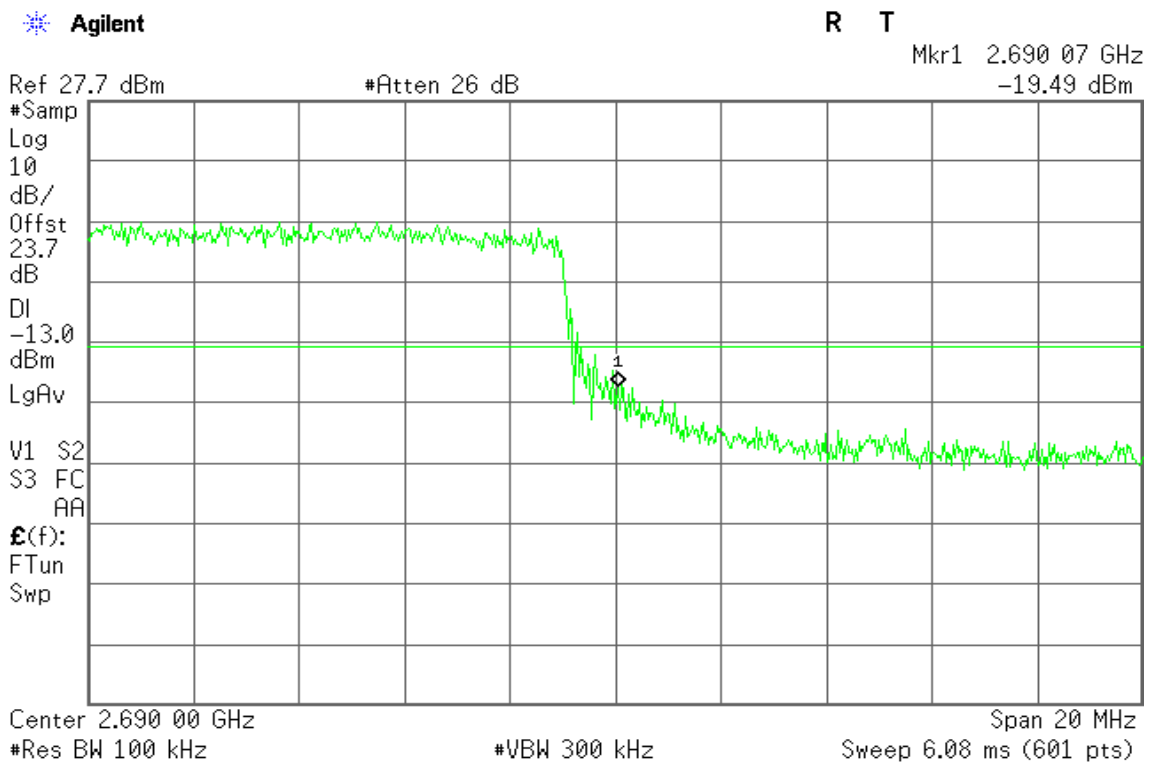
TEST RESULTS:

CHANNEL BANDWIDTH: 20MHz / QPSK / FULL RB ALLOCATION

LOWER BAND EDGE



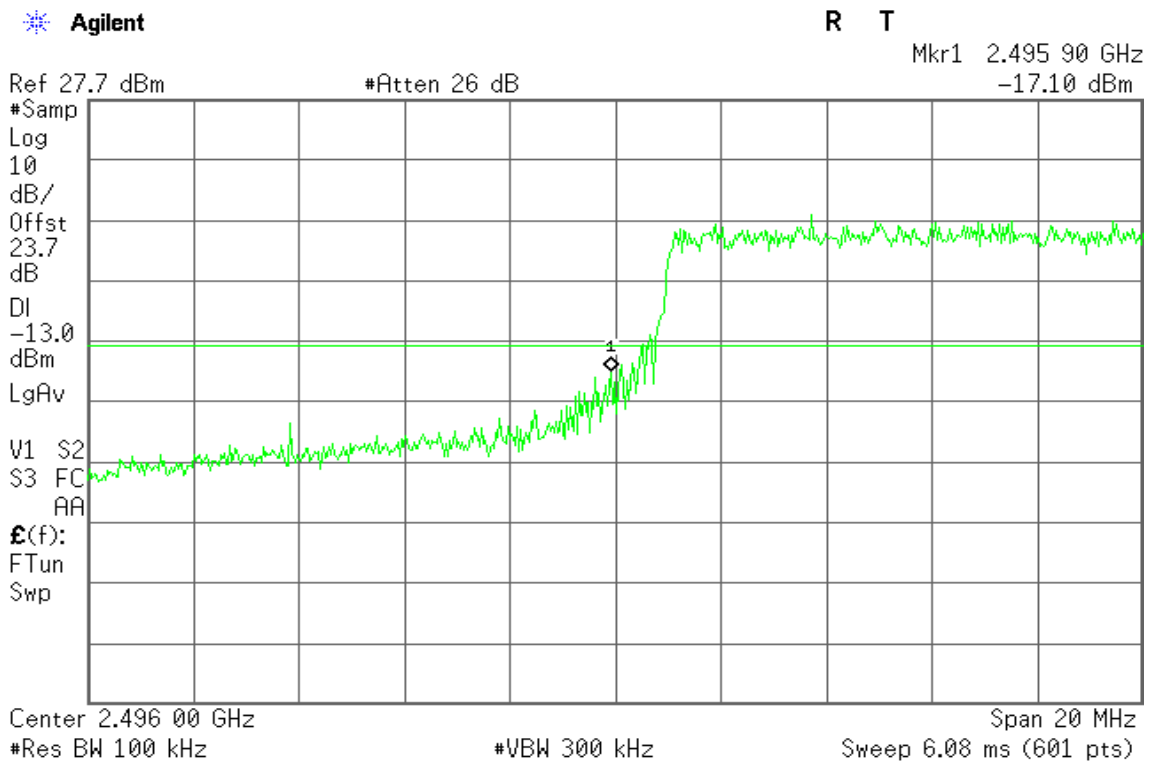
HIGHER BAND EDGE



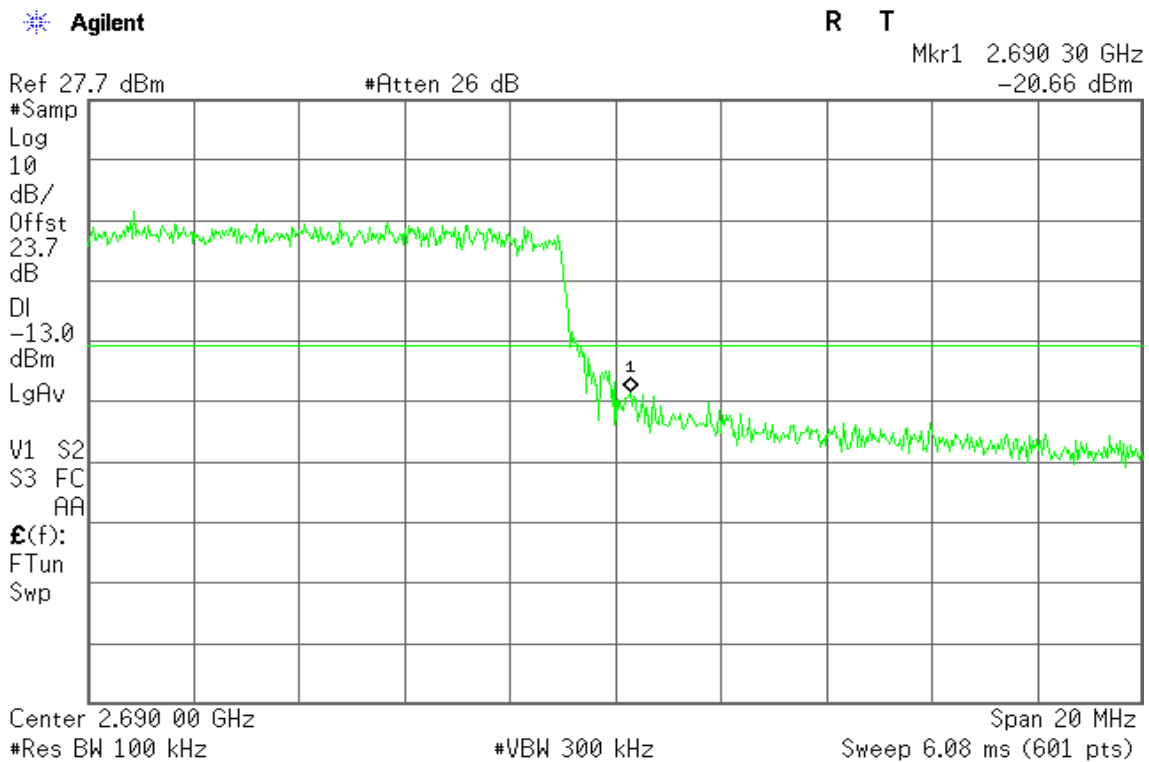


CHANNEL BANDWIDTH: 20MHz / 16QAM / FULL RB ALLOCATION

LOWER BAND EDGE



HIGHER BAND EDGE





7.6 CONDUCTED SPURIOUS EMISSIONS

LIMITS

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

TEST PROCEDURES

1. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
2. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
3. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.
4. When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.



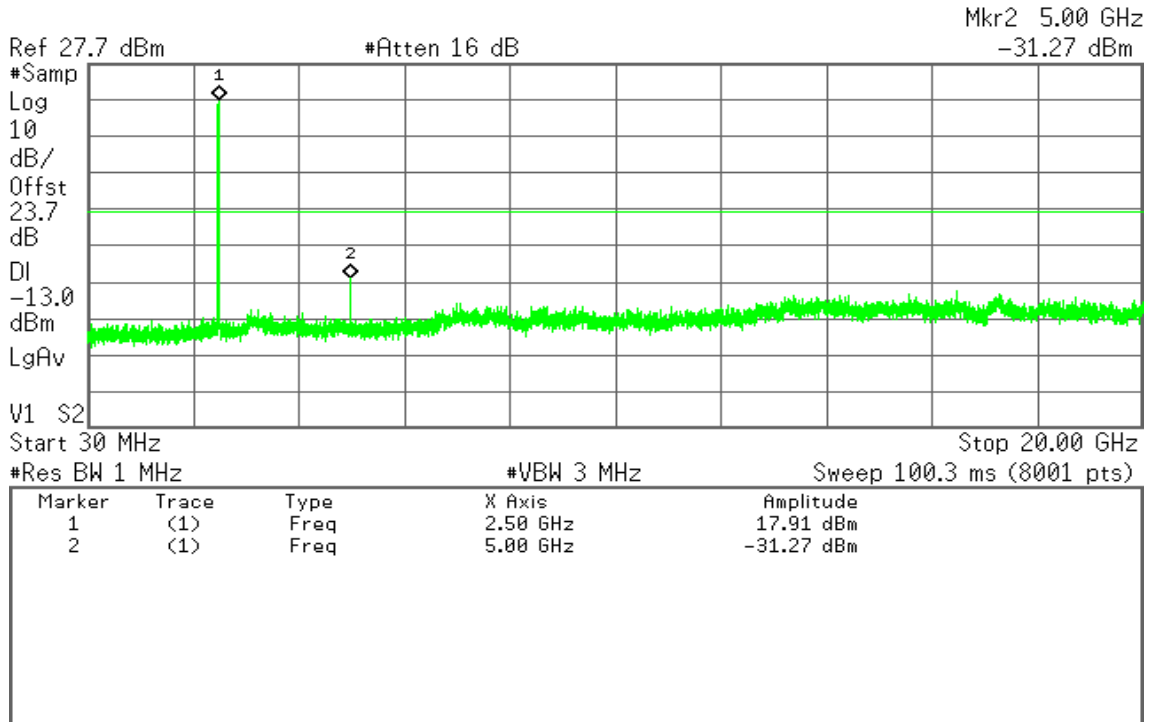
TEST RESULTS

CHANNEL BANDWIDTH: 5MHz / QPSK

CH Low

Agilent

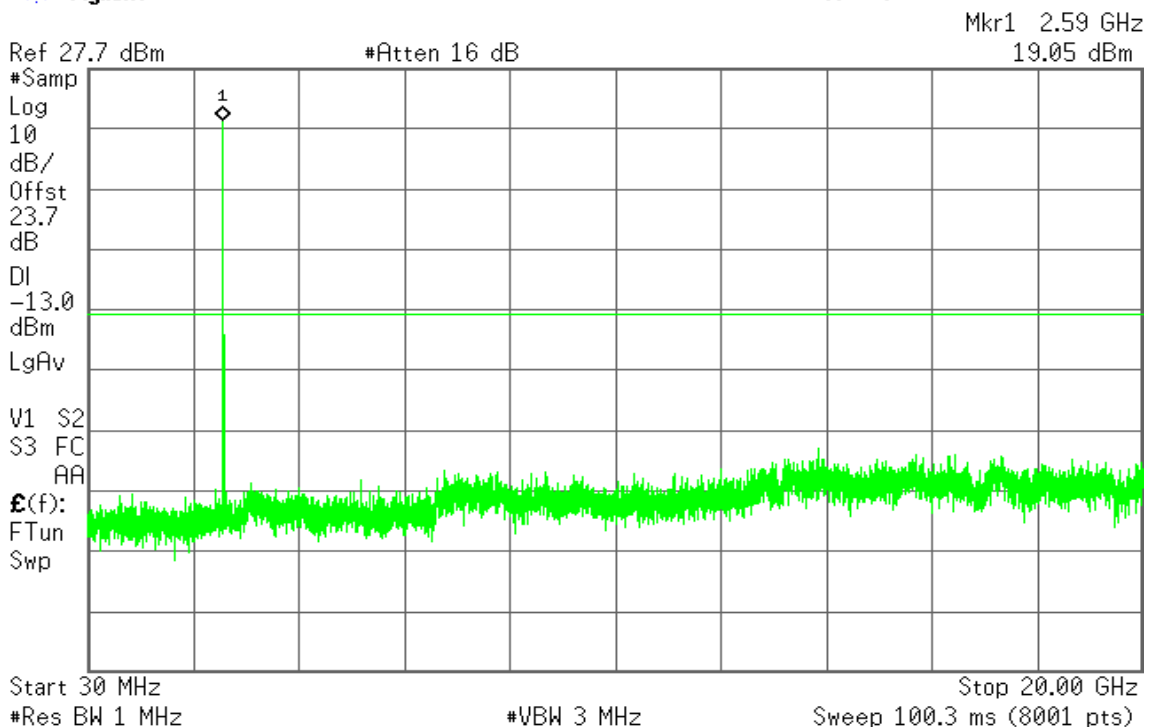
R T



CH Mid

Agilent

R T



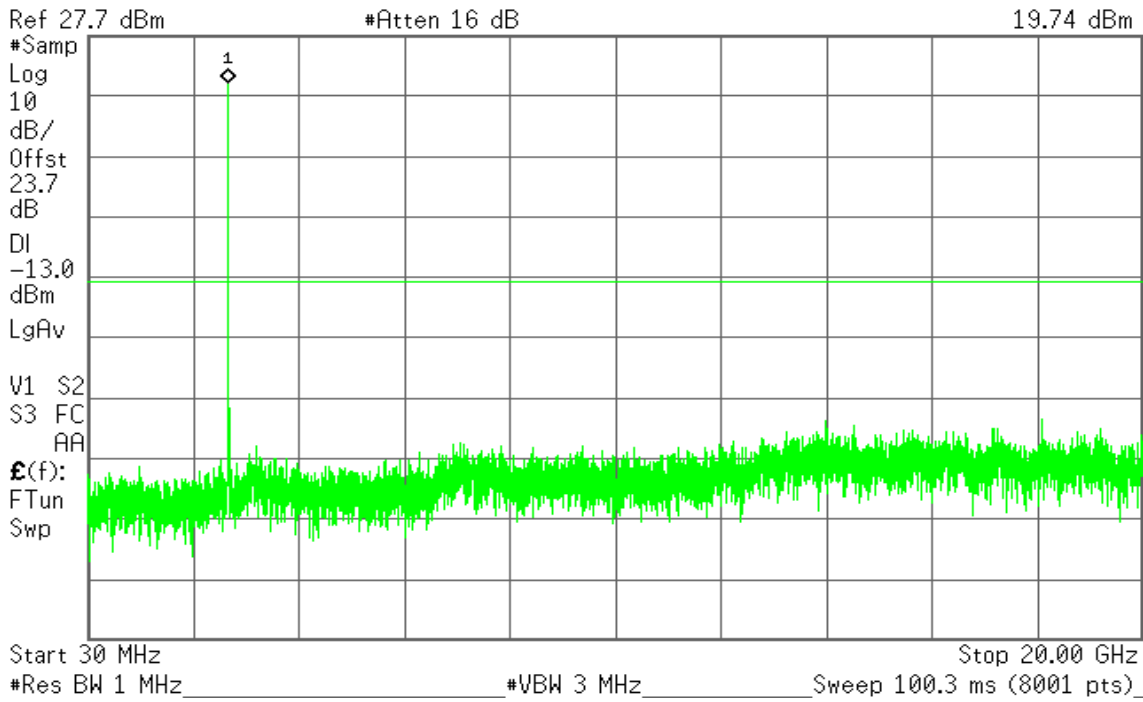


CH High

Agilent

R T

Mkr1 2.69 GHz
19.74 dBm



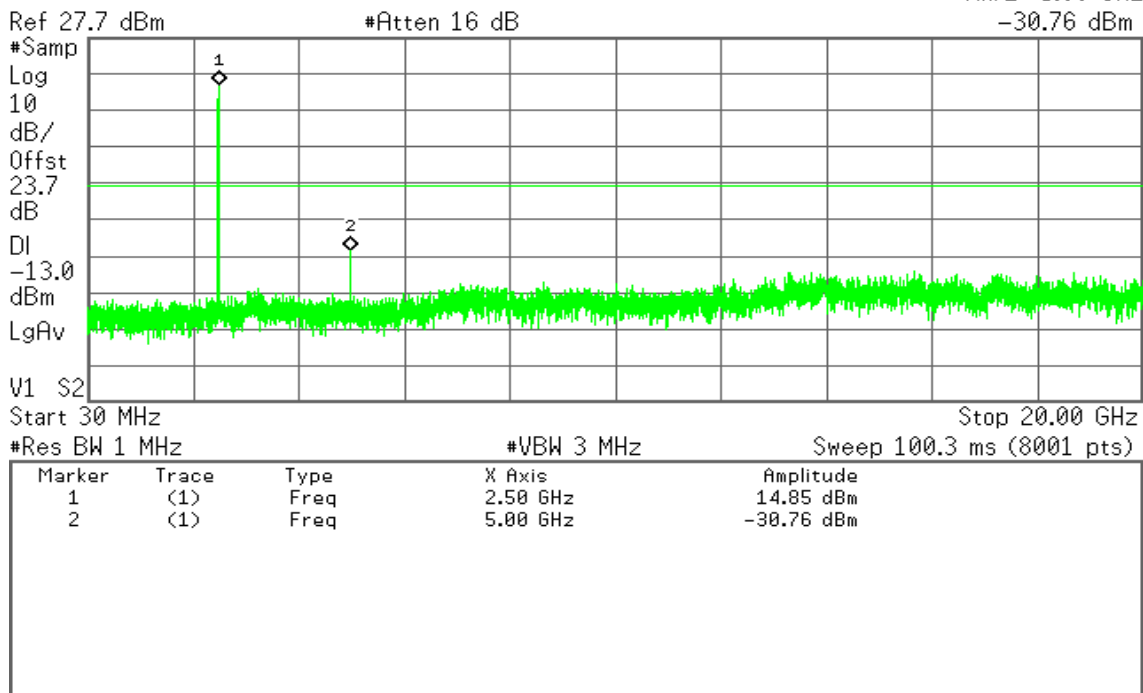
CHANNEL BANDWIDTH: 5MHz / 16QAM

CH Low

Agilent

R T

Mkr2 5.00 GHz
-30.76 dBm



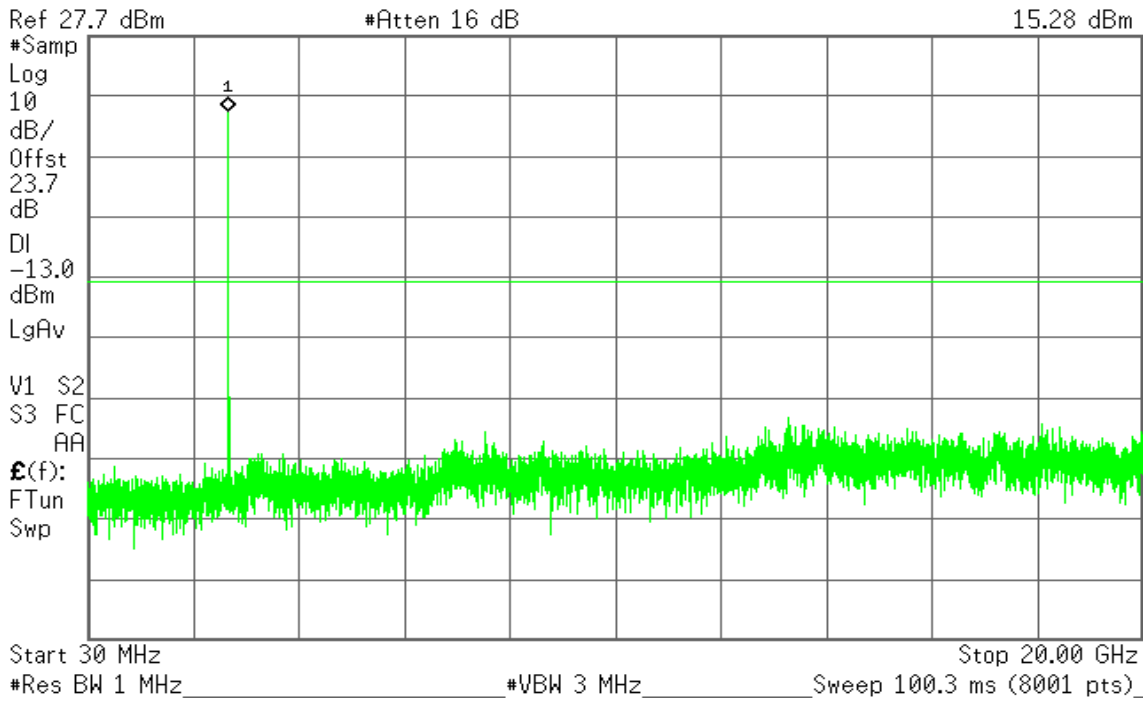


CH Mid

Agilent

R T

Mkr1 2.69 GHz
15.28 dBm

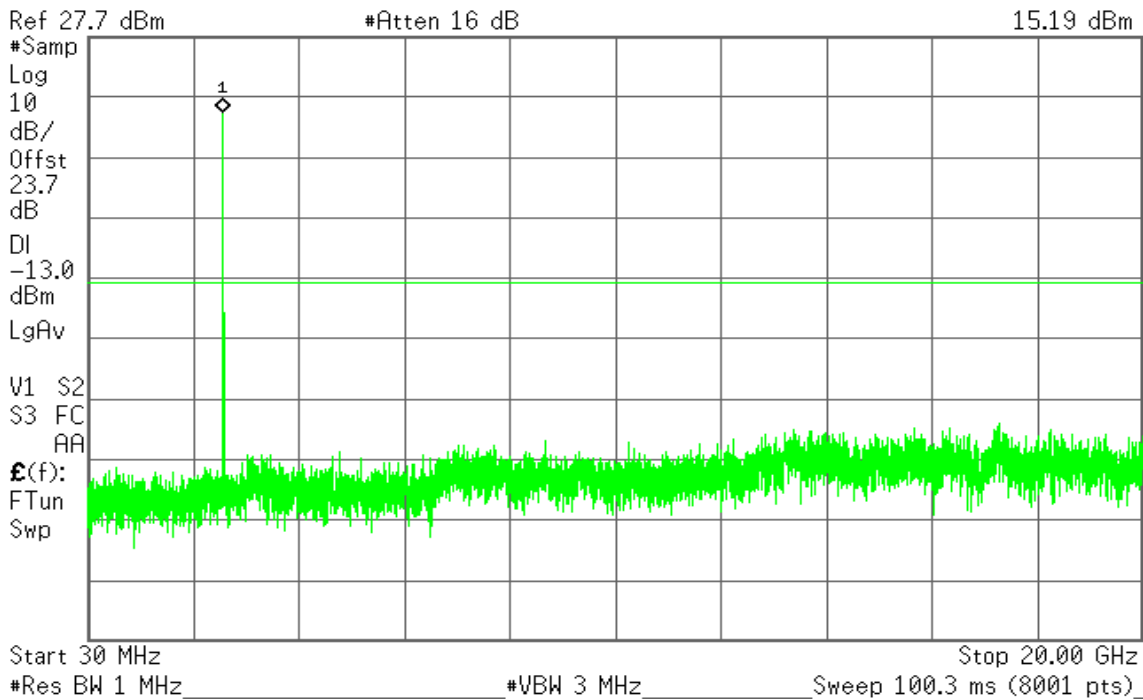


CH High

Agilent

R T

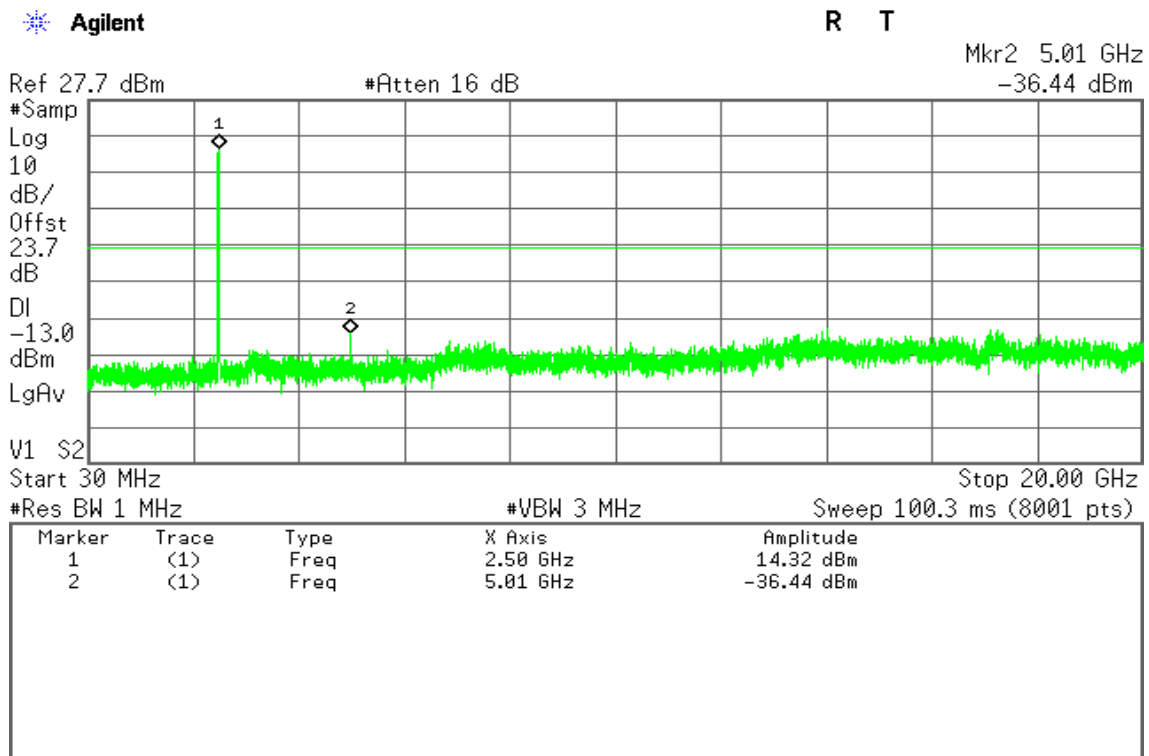
Mkr1 2.59 GHz
15.19 dBm



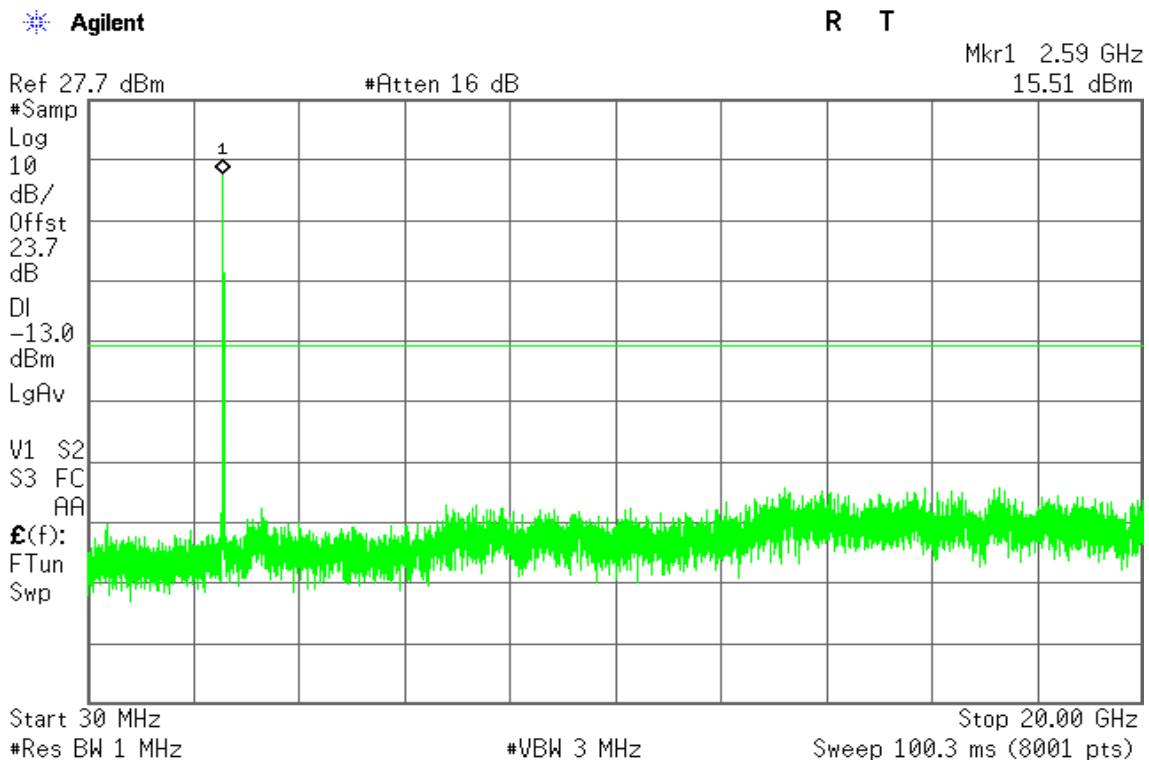


CHANNEL BANDWIDTH: 10MHz / QPSK

CH Low



CH Mid



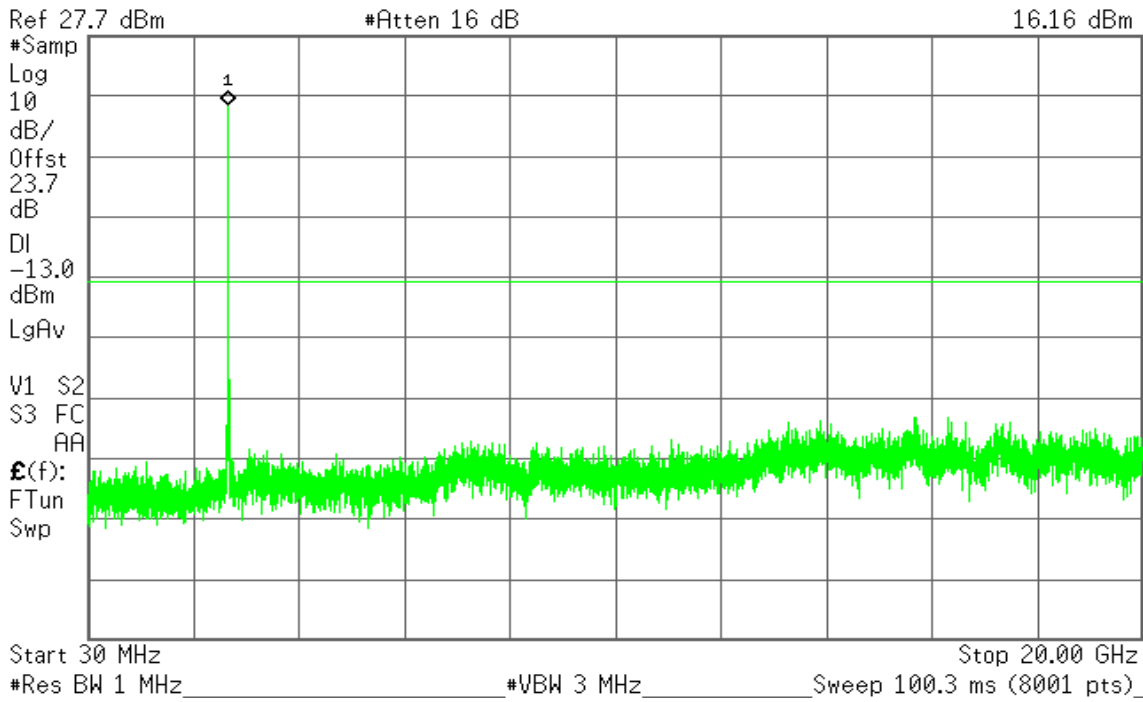


CH High

Agilent

R T

Mkr1 2.68 GHz
16.16 dBm



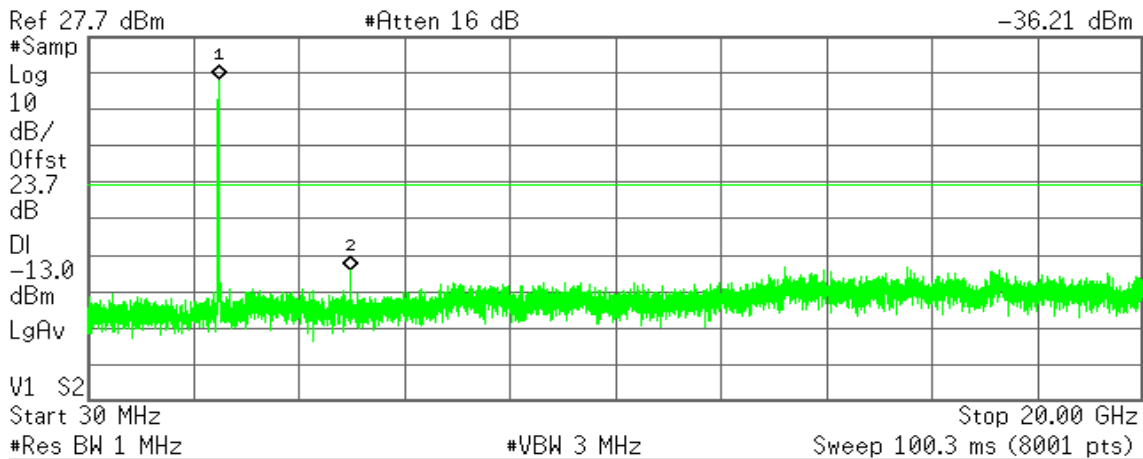
CHANNEL BANDWIDTH: 10MHz / 16QAM

CH Low

Agilent

R T

Mkr2 5.00 GHz
-36.21 dBm



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.50 GHz	15.80 dBm
2	(1)	Freq	5.00 GHz	-36.21 dBm

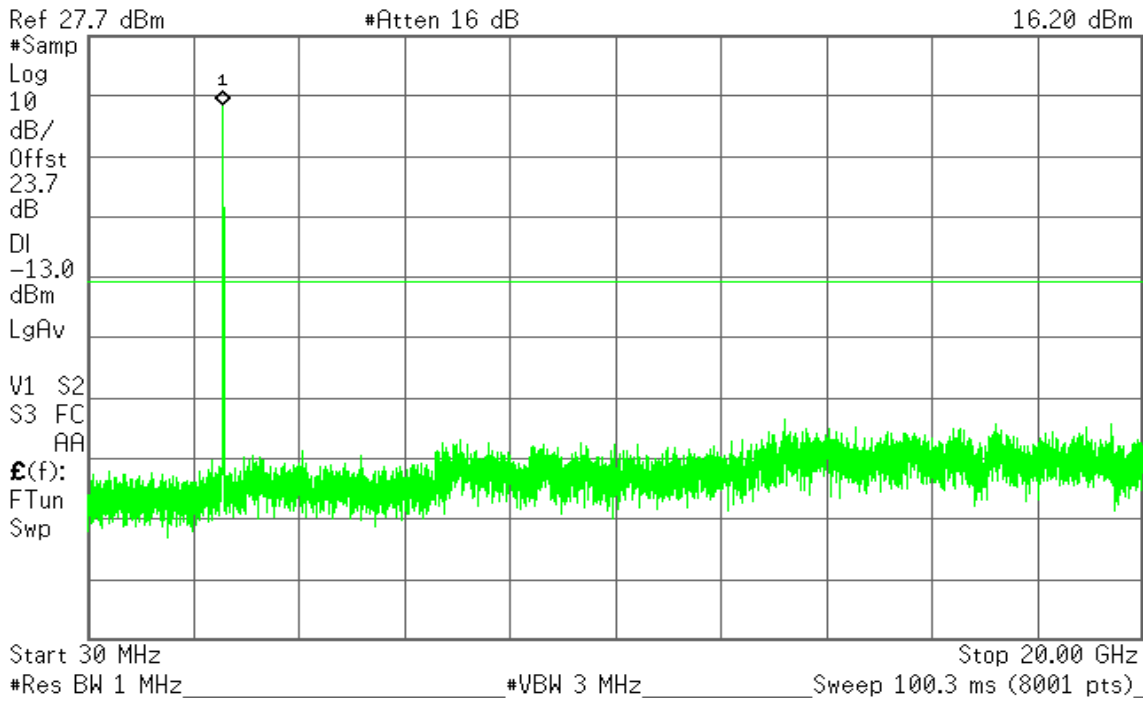


CH Mid

Agilent

R T

Mkr1 2.59 GHz
16.20 dBm

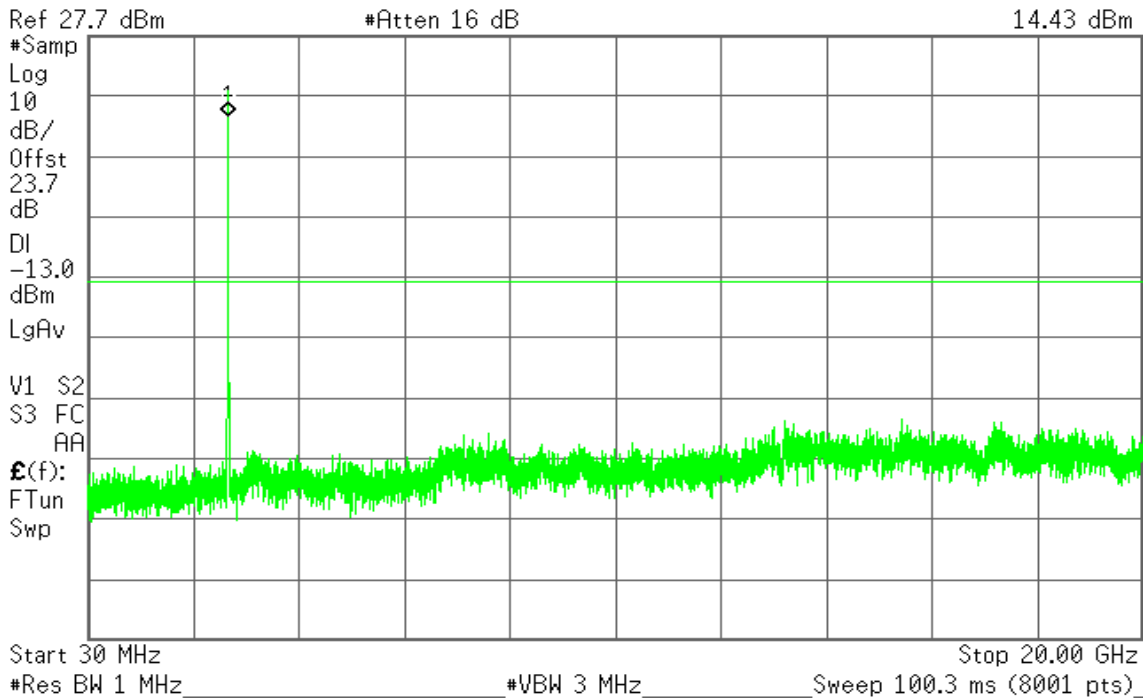


CH High

Agilent

R T

Mkr1 2.69 GHz
14.43 dBm





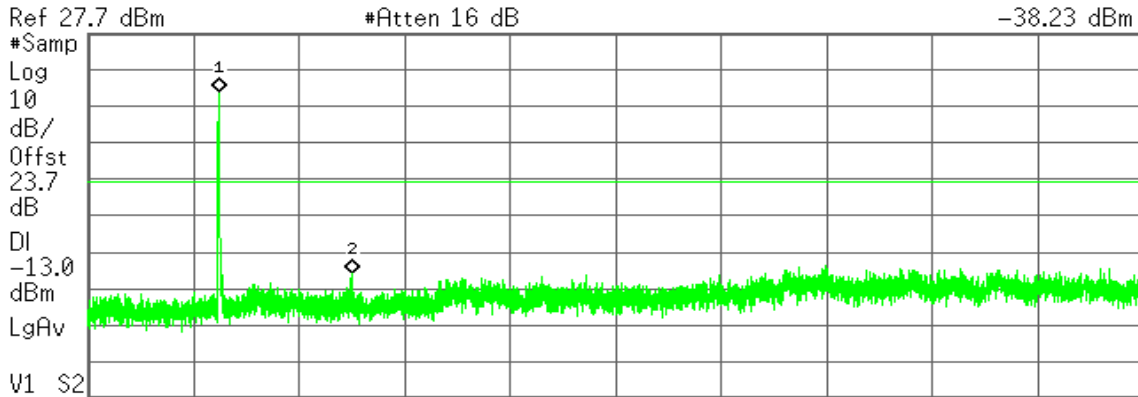
CHANNEL BANDWIDTH: 20MHz / QPSK

CH Low

Agilent

R T

Mkr2 5.02 GHz
-38.23 dBm



Start 30 MHz Stop 20.00 GHz
#Res BW 1 MHz #VBW 3 MHz Sweep 100.3 ms (8001 pts)

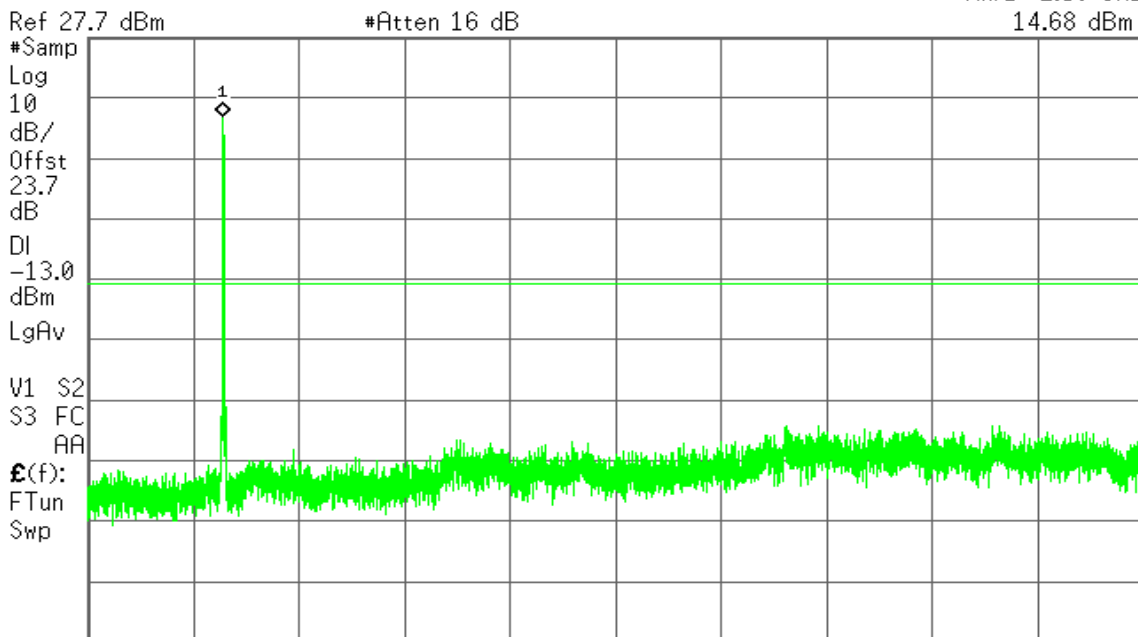
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.51 GHz	11.85 dBm
2	(1)	Freq	5.02 GHz	-38.23 dBm

CH Mid

Agilent

R T

Mkr1 2.59 GHz
14.68 dBm



Start 30 MHz Stop 20.00 GHz
#Res BW 1 MHz #VBW 3 MHz Sweep 100.3 ms (8001 pts)

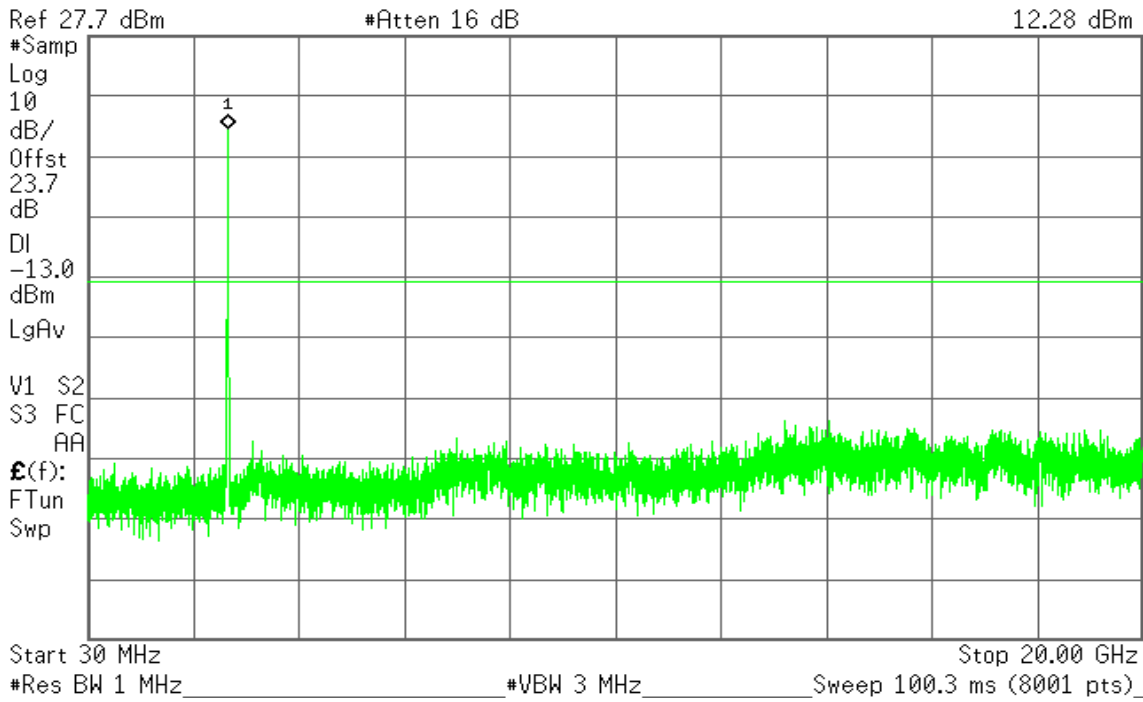


CH High

Agilent

R T

Mkr1 2.67 GHz
12.28 dBm



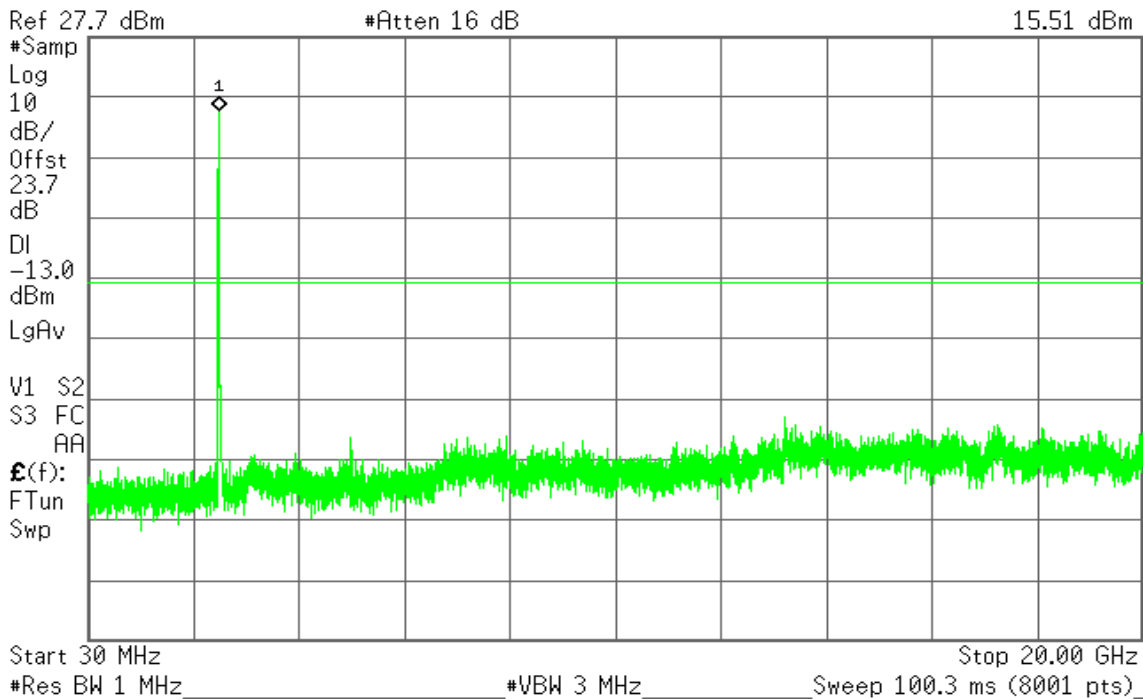
CHANNEL BANDWIDTH: 20MHz / 16QAM

CH Low

Agilent

R T

Mkr1 2.51 GHz
15.51 dBm



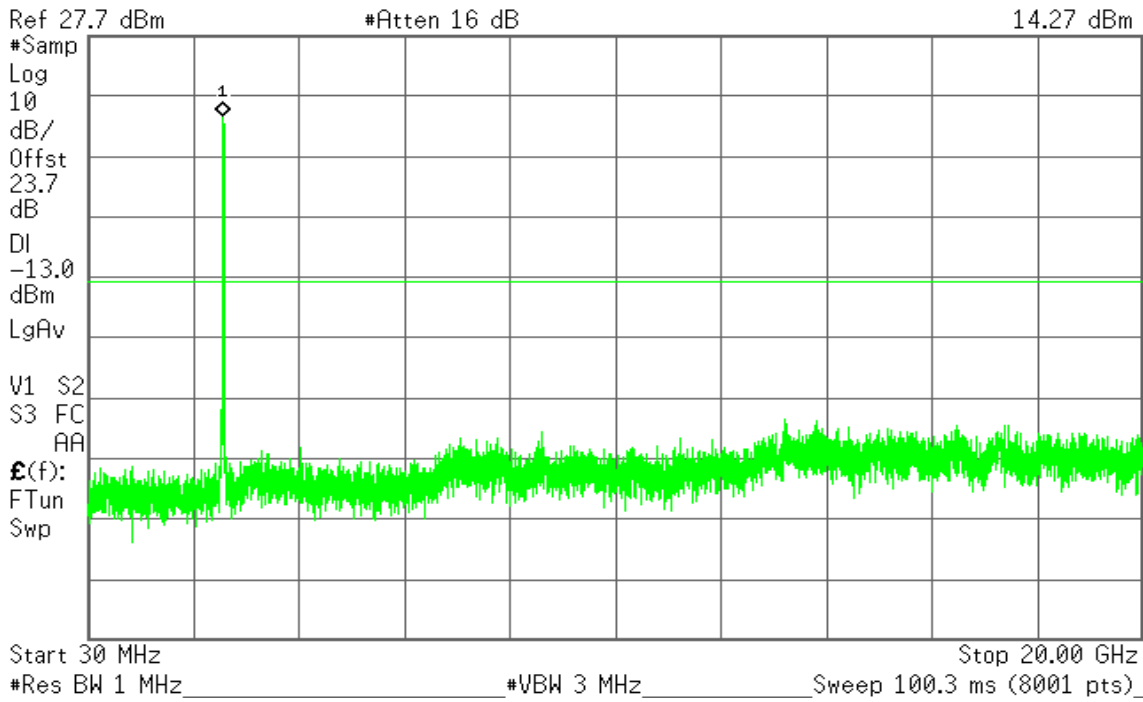


CH Mid

Agilent

R T

Mkr1 2.60 GHz
14.27 dBm

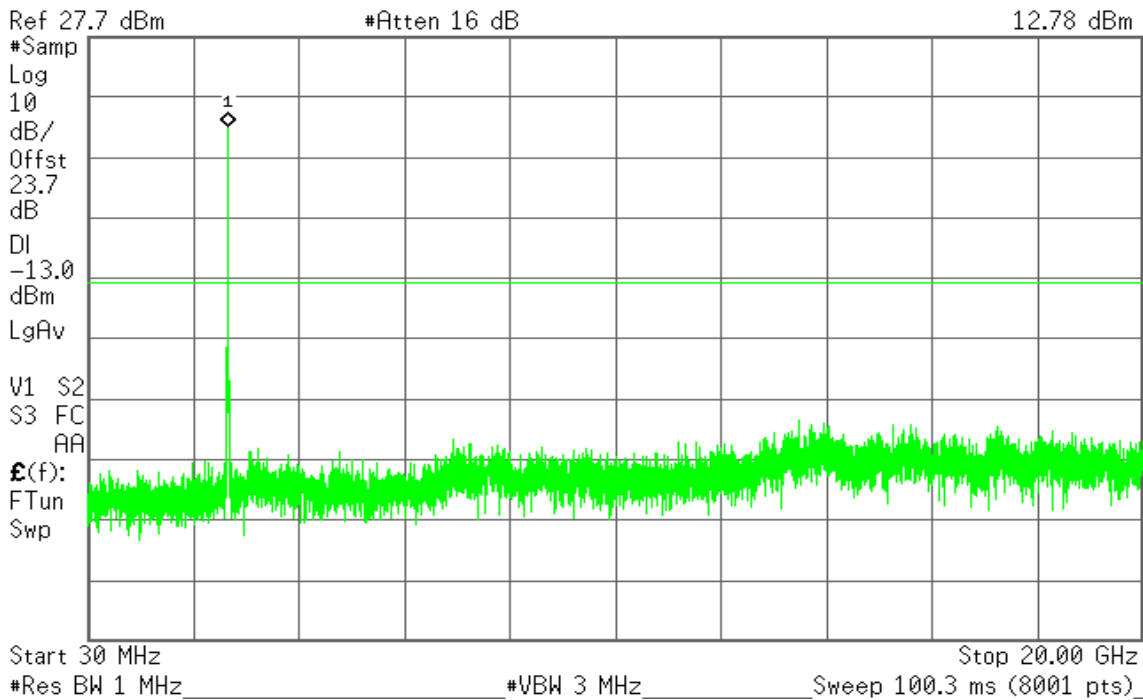


CH High

Agilent

R T

Mkr1 2.68 GHz
12.78 dBm





7.7 RADIATED EMISSION MEASUREMENT

LIMITS

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13 dBm

So the limit of emission is the same absolute specified line.

Limits	EQUIVALENT FIELD STRENGTH AT 3m (dBuV/m) (NOTE)
-13	82.22

NOTE: The following formula is used to convert the equipment radiated power to field strength.

$$E = [1000000\sqrt{(30P)}] / 3 \text{ uV/m, where P is Watts}$$

TEST PROCEDURES

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
3. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
4. Repeat step 1 ~ 3 for horizontal polarization.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.



TEST RESULTS

For Antenna P/N: AN0727-64DP5BSM

Below 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode:	Tx / Low channel	Test Date:	January 20, 2015
Temperature:	26°C	Tested by:	Dennis Li
Humidity:	60% RH	Polarity:	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
586.7800	-82.46	2.89	6.13	-79.22	-13.00	-66.22	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
747.8000	-76.97	3.2	6.1	-74.07	-13.00	-61.07	H
869.0500	-75.96	3.44	6.5	-72.90	-13.00	-59.90	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
280.2600	-85.77	2	5.31	-82.46	-13.00	-69.46	V
415.0900	-85.25	2.45	5.86	-81.84	-13.00	-68.84	V
527.6100	-83.76	2.74	6.02	-80.48	-13.00	-67.48	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
128.9400	-74.96	1.34	-1.5	-77.80	-13.00	-64.80	H
191.0200	-78.88	1.62	3.89	-76.61	-13.00	-63.61	H
322.9400	-82.32	2.18	5.7	-78.80	-13.00	-65.80	H
536.3400	-80.28	2.77	6.19	-76.86	-13.00	-63.86	H
760.4100	-76.46	3.22	6.3	-73.38	-13.00	-60.38	H
877.7800	-75.88	3.46	6.64	-72.70	-13.00	-59.70	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
483.9600	-83.54	2.65	5.6	-80.59	-13.00	-67.59	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
869.0500	-79.83	3.44	6.5	-76.77	-13.00	-63.77	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
642.0700	-77.64	3.01	6.14	-74.51	-13.00	-61.51	H
794.3600	-75.89	3.33	6.35	-72.87	-13.00	-59.87	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
221.0900	-84.6	1.77	5.33	-81.04	-13.00	-68.04	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
642.0700	-81.87	3.01	6.14	-78.74	-13.00	-65.74	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
462.6200	-79.79	2.61	5.85	-76.55	-13.00	-63.55	H
586.7800	-78.43	2.89	6.13	-75.19	-13.00	-62.19	H
666.3200	-77.62	3.07	6.3	-74.39	-13.00	-61.39	H
794.3600	-75.89	3.33	6.35	-72.87	-13.00	-59.87	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
204.6000	-84.58	1.65	4.2	-82.03	-13.00	-69.03	V
290.9300	-86.93	2.03	5.43	-83.53	-13.00	-70.53	V
470.3800	-84.3	2.62	5.77	-81.15	-13.00	-68.15	V
606.1800	-83.52	2.93	6.34	-80.11	-13.00	-67.11	V
711.9100	-81.09	3.15	6.35	-77.89	-13.00	-64.89	V
904.9400	-80.05	3.54	6.6	-76.99	-13.00	-63.99	V
128.9400	-74.96	1.34	-1.5	-77.80	-13.00	-64.80	H
252.1300	-82.12	1.85	5.68	-78.29	-13.00	-65.29	H
352.0400	-81.82	2.24	5.78	-78.28	-13.00	-65.28	H
564.4700	-78.8	2.86	6.03	-75.63	-13.00	-62.63	H
806.9700	-76.05	3.34	6.34	-73.05	-13.00	-60.05	H
955.3800	-74.86	3.65	6.37	-72.14	-13.00	-59.14	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
527.6100	-83.76	2.74	6.02	-80.48	-13.00	-67.48	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
642.0700	-77.64	3.01	6.14	-74.51	-13.00	-61.51	H
735.1900	-77.54	3.19	6.25	-74.48	-13.00	-61.48	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
268.6200	-86.42	1.97	5.17	-83.22	-13.00	-70.22	V
441.2800	-84.2	2.54	5.87	-80.87	-13.00	-67.87	V
657.5900	-82.17	3.05	6.3	-78.92	-13.00	-65.92	V
807.9400	-79.86	3.34	6.3	-76.90	-13.00	-63.90	V
121.1800	-74.12	1.28	-2	-77.40	-13.00	-64.40	H
200.7200	-78.55	1.63	3.19	-76.99	-13.00	-63.99	H
364.6500	-81.18	2.28	5.75	-77.71	-13.00	-64.71	H
462.6200	-79.73	2.61	5.85	-76.49	-13.00	-63.49	H
727.4300	-77.35	3.18	6.42	-74.11	-13.00	-61.11	H
838.9800	-76.39	3.41	6.39	-73.41	-13.00	-60.41	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
162.8900	-82.65	1.51	1.72	-82.44	-13.00	-69.44	V
431.5800	-83.62	2.5	5.81	-80.31	-13.00	-67.31	V
573.2000	-83.41	2.88	6.08	-80.21	-13.00	-67.21	V
808.9100	-79.96	3.34	6.27	-77.03	-13.00	-64.03	V
911.7300	-79.24	3.57	6.6	-76.21	-13.00	-63.21	V
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
338.4600	-82.46	2.17	5.78	-78.85	-13.00	-65.85	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
566.4100	-78.66	2.86	6.06	-75.46	-13.00	-62.46	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
873.9000	-76	3.45	6.58	-72.87	-13.00	-59.87	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
223.0300	-86.97	1.77	5.35	-83.39	-13.00	-70.39	V
355.9200	-86.15	2.25	5.74	-82.66	-13.00	-69.66	V
511.1200	-83.95	2.69	6.01	-80.63	-13.00	-67.63	V
552.8300	-83.54	2.82	6.14	-80.22	-13.00	-67.22	V
690.5700	-82.14	3.13	6.49	-78.78	-13.00	-65.78	V
856.4400	-79.55	3.42	6.4	-76.57	-13.00	-63.57	V
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
401.5100	-80.31	2.4	5.98	-76.73	-13.00	-63.73	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
566.4100	-78.66	2.86	6.06	-75.46	-13.00	-62.46	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
807.9400	-76.22	3.34	6.3	-73.26	-13.00	-60.26	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
288.9900	-86.24	2.02	5.39	-82.87	-13.00	-69.87	V
476.2000	-83.29	2.63	5.63	-80.29	-13.00	-67.29	V
722.5800	-81.05	3.17	6.48	-77.74	-13.00	-64.74	V
841.8900	-80.14	3.41	6.4	-77.15	-13.00	-64.15	V
123.1200	-74.11	1.29	-1.87	-77.27	-13.00	-64.27	H
191.0200	-77.95	1.62	3.89	-75.68	-13.00	-62.68	H
343.3100	-81.06	2.19	5.8	-77.45	-13.00	-64.45	H
431.5800	-76.14	2.5	5.81	-72.83	-13.00	-59.83	H
585.8100	-77.5	2.89	6.11	-74.28	-13.00	-61.28	H
824.4300	-75.06	3.39	6.24	-72.21	-13.00	-59.21	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
147.3700	-81.37	1.42	0.44	-82.35	-13.00	-69.35	V
361.7400	-85.23	2.28	5.72	-81.79	-13.00	-68.79	V
573.2000	-83.41	2.88	6.08	-80.21	-13.00	-67.21	V
770.1100	-80.94	3.27	6.38	-77.83	-13.00	-64.83	V
886.5100	-80.21	3.49	6.7	-77.00	-13.00	-64.00	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
772.0500	-76.09	3.28	6.32	-73.05	-13.00	-60.05	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
304.5100	-86.3	2.11	5.69	-82.72	-13.00	-69.72	V
476.2000	-83.29	2.63	5.63	-80.29	-13.00	-67.29	V
722.5800	-81.05	3.17	6.48	-77.74	-13.00	-64.74	V
856.4400	-79.55	3.42	6.4	-76.57	-13.00	-63.57	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
772.0500	-76.09	3.28	6.32	-73.05	-13.00	-60.05	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
144.4600	-80.05	1.41	0.17	-81.29	-13.00	-68.29	V
260.8600	-86.95	1.91	5.56	-83.30	-13.00	-70.30	V
401.5100	-85.41	2.4	5.98	-81.83	-13.00	-68.83	V
469.4100	-83.95	2.62	5.79	-80.78	-13.00	-67.78	V
680.8700	-82.09	3.09	6.5	-78.68	-13.00	-65.68	V
803.0900	-79.73	3.33	6.48	-76.58	-13.00	-63.58	V
125.0600	-74.03	1.31	-1.75	-77.09	-13.00	-64.09	H
252.1300	-81.82	1.85	5.68	-77.99	-13.00	-64.99	H
388.9000	-78.97	2.32	6	-75.29	-13.00	-62.29	H
461.6500	-79.83	2.6	5.86	-76.57	-13.00	-63.57	H
676.9900	-77.46	3.08	6.44	-74.10	-13.00	-61.10	H
840.9200	-75.83	3.41	6.4	-72.84	-13.00	-59.84	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-74.46	0.93	-1.89	-77.28	-13.00	-64.28	V
207.5100	-87.4	1.67	4.95	-84.12	-13.00	-71.12	V
323.9100	-87	2.17	5.7	-83.47	-13.00	-70.47	V
461.6500	-83.95	2.6	5.86	-80.69	-13.00	-67.69	V
667.2900	-81.42	3.07	6.3	-78.19	-13.00	-65.19	V
882.6300	-80.01	3.47	6.7	-76.78	-13.00	-63.78	V
128.9400	-75.51	1.34	-1.5	-78.35	-13.00	-65.35	H
191.0200	-80.21	1.62	3.89	-77.94	-13.00	-64.94	H
384.0500	-82.14	2.31	5.99	-78.46	-13.00	-65.46	H
431.5800	-79.33	2.5	5.81	-76.02	-13.00	-63.02	H
636.2500	-79.23	3	6.16	-76.07	-13.00	-63.07	H
767.2000	-78.61	3.26	6.37	-75.50	-13.00	-62.50	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
193.9300	-83.07	1.62	3.58	-81.11	-13.00	-68.11	V
401.5100	-84.61	2.4	5.98	-81.03	-13.00	-68.03	V
485.9000	-83.77	2.65	5.66	-80.76	-13.00	-67.76	V
608.1200	-83.35	2.93	6.32	-79.96	-13.00	-66.96	V
756.5300	-80.69	3.21	6.23	-77.67	-13.00	-64.67	V
123.1200	-74.3	1.29	-1.87	-77.46	-13.00	-64.46	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
431.5800	-78.69	2.5	5.81	-75.38	-13.00	-62.38	H
576.1100	-78.01	2.88	6.05	-74.84	-13.00	-61.84	H
720.6400	-77.18	3.17	6.49	-73.86	-13.00	-60.86	H
884.5700	-75.54	3.48	6.7	-72.32	-13.00	-59.32	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.96	0.93	-1.89	-72.78	-13.00	-59.78	V
200.7200	-84.72	1.63	3.19	-83.16	-13.00	-70.16	V
431.5800	-82.77	2.5	5.81	-79.46	-13.00	-66.46	V
511.1200	-83.58	2.69	6.01	-80.26	-13.00	-67.26	V
702.2100	-81.05	3.12	6.37	-77.80	-13.00	-64.80	V
863.2300	-80.35	3.43	6.44	-77.34	-13.00	-64.34	V
125.0600	-74.03	1.31	-1.75	-77.09	-13.00	-64.09	H
388.9000	-78.97	2.32	6	-75.29	-13.00	-62.29	H
547.9800	-79.9	2.8	6.2	-76.50	-13.00	-63.50	H
574.1700	-78.77	2.88	6.07	-75.58	-13.00	-62.58	H
658.5600	-77.34	3.05	6.3	-74.09	-13.00	-61.09	H
902.0300	-75.95	3.53	6.6	-72.88	-13.00	-59.88	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
126.0300	-79.35	1.32	-1.69	-82.36	-13.00	-69.36	V
276.3800	-86.91	1.99	5.23	-83.67	-13.00	-70.67	V
403.4500	-84.15	2.41	5.96	-80.60	-13.00	-67.60	V
609.0900	-84.21	2.94	6.31	-80.84	-13.00	-67.84	V
702.2100	-82.47	3.12	6.37	-79.22	-13.00	-66.22	V
801.1500	-81.07	3.33	6.55	-77.85	-13.00	-64.85	V
191.0200	-80.21	1.62	3.89	-77.94	-13.00	-64.94	H
335.5500	-84.29	2.17	5.75	-80.71	-13.00	-67.71	H
431.5800	-79.33	2.5	5.81	-76.02	-13.00	-63.02	H
636.2500	-79.23	3	6.16	-76.07	-13.00	-63.07	H
822.4900	-77.05	3.39	6.22	-74.22	-13.00	-61.22	H
884.5700	-76.82	3.48	6.7	-73.60	-13.00	-60.60	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
202.6600	-85.15	1.65	3.69	-83.11	-13.00	-70.11	V
401.5100	-84.61	2.4	5.98	-81.03	-13.00	-68.03	V
485.9000	-83.77	2.65	5.66	-80.76	-13.00	-67.76	V
608.1200	-83.35	2.93	6.32	-79.96	-13.00	-66.96	V
815.7000	-79.82	3.37	6.2	-76.99	-13.00	-63.99	V
123.1200	-74.3	1.29	-1.87	-77.46	-13.00	-64.46	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
396.6600	-81.07	2.36	5.99	-77.44	-13.00	-64.44	H
461.6500	-79.79	2.6	5.86	-76.53	-13.00	-63.53	H
694.4500	-77.38	3.12	6.45	-74.05	-13.00	-61.05	H
829.2800	-75.98	3.39	6.29	-73.08	-13.00	-60.08	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Above 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-27.58	9.41	10.6	-26.39	-13.00	-13.39	V
7496.000	-41.16	12.26	12.69	-40.73	-13.00	-27.73	V
N/A							
3660.000	-54.5	8.16	9.06	-53.60	-13.00	-40.60	H
4997.000	-34.02	9.41	10.6	-32.83	-13.00	-19.83	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-27.71	9.54	10.67	-26.58	-13.00	-13.58	V
7776.000	-42.99	12.42	12.98	-42.43	-13.00	-29.43	V
N/A							
3891.000	-52.49	8.38	9.29	-51.58	-13.00	-38.58	H
5186.000	-34.59	9.54	10.67	-33.46	-13.00	-20.46	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5375.000	-28.75	9.78	10.75	-27.78	-13.00	-14.78	V
7307.000	-45.81	12.04	12.39	-45.46	-13.00	-32.46	V
N/A							
4094.000	-52.99	8.45	9.48	-51.96	-13.00	-38.96	H
5375.000	-33.63	9.78	10.75	-32.66	-13.00	-19.66	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-28.14	9.41	10.6	-26.95	-13.00	-13.95	V
7496.000	-40	12.26	12.69	-39.57	-13.00	-26.57	V
N/A							
4997.000	-33.4	9.41	10.6	-32.21	-13.00	-19.21	H
7398.000	-44.41	12.09	12.54	-43.96	-13.00	-30.96	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-27.67	9.54	10.67	-26.54	-13.00	-13.54	V
6985.000	-46.44	11.54	11.88	-46.10	-13.00	-33.10	V
N/A							
5186.000	-34.69	9.54	10.67	-33.56	-13.00	-20.56	H
7363.000	-44.18	12.07	12.48	-43.77	-13.00	-30.77	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4430.000	-53.76	8.72	9.74	-52.74	-13.00	-39.74	V
5375.000	-30.13	9.78	10.75	-29.16	-13.00	-16.16	V
N/A							
4556.000	-52.38	9.03	9.89	-51.52	-13.00	-38.52	H
5375.000	-33.17	9.78	10.75	-32.20	-13.00	-19.20	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3898.000	-54.11	8.39	9.3	-53.20	-13.00	-40.20	V
5004.000	-30.92	9.41	10.6	-29.73	-13.00	-16.73	V
N/A							
3856.000	-53.26	8.33	9.26	-52.33	-13.00	-39.33	H
4997.000	-36.42	9.41	10.6	-35.23	-13.00	-22.23	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4010.000	-53.35	8.36	9.41	-52.30	-13.00	-39.30	V
5186.000	-28.15	9.54	10.67	-27.02	-13.00	-14.02	V
N/A							
4325.000	-52.19	8.61	9.66	-51.14	-13.00	-38.14	H
5186.000	-34.58	9.54	10.67	-33.45	-13.00	-20.45	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3919.000	-53.81	8.38	9.32	-52.87	-13.00	-39.87	V
5368.000	-31.05	9.77	10.75	-30.07	-13.00	-17.07	V
N/A							
3926.000	-52.27	8.38	9.33	-51.32	-13.00	-38.32	H
5368.000	-35.75	9.77	10.75	-34.77	-13.00	-21.77	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5004.000	-30.72	9.41	10.6	-29.53	-13.00	-16.53	V
7503.000	-40.98	12.27	12.7	-40.55	-13.00	-27.55	V
N/A							
5004.000	-34.94	9.41	10.6	-33.75	-13.00	-20.75	H
6978.000	-46.05	11.54	11.87	-45.72	-13.00	-32.72	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3555.000	-55.79	8	8.96	-54.83	-13.00	-41.83	V
5186.000	-28.03	9.54	10.67	-26.90	-13.00	-13.90	V
N/A							
3898.000	-52.98	8.39	9.3	-52.07	-13.00	-39.07	H
5186.000	-34.75	9.54	10.67	-33.62	-13.00	-20.62	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4262.000	-53.64	8.56	9.61	-52.59	-13.00	-39.59	V
5368.000	-31.71	9.77	10.75	-30.73	-13.00	-17.73	V
N/A							
3891.000	-53.31	8.38	9.29	-52.40	-13.00	-39.40	H
5368.000	-32.38	9.77	10.75	-31.40	-13.00	-18.40	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3870.000	-53.82	8.35	9.27	-52.90	-13.00	-39.90	V
4997.000	-33.77	9.41	10.6	-32.58	-13.00	-19.58	V
N/A							
3954.000	-53.92	8.37	9.35	-52.94	-13.00	-39.94	H
5011.000	-36.59	9.41	10.6	-35.40	-13.00	-22.40	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3870.000	-53.46	8.35	9.27	-52.54	-13.00	-39.54	V
5193.000	-31.19	9.55	10.68	-30.06	-13.00	-17.06	V
N/A							
5179.000	-36.5	9.54	10.67	-35.37	-13.00	-22.37	H
7237.000	-45.81	11.92	12.28	-45.45	-13.00	-32.45	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5361.000	-31.95	9.75	10.74	-30.96	-13.00	-17.96	V
7461.000	-45.21	12.2	12.64	-44.77	-13.00	-31.77	V
N/A							
4815.000	-52.61	9.31	10.3	-51.62	-13.00	-38.62	H
5361.000	-32.51	9.75	10.74	-31.52	-13.00	-18.52	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3625.000	-55.46	8.13	9.03	-54.56	-13.00	-41.56	V
5018.000	-33.71	9.42	10.61	-32.52	-13.00	-19.52	V
N/A							
3877.000	-52.96	8.36	9.28	-52.04	-13.00	-39.04	H
5011.000	-36.68	9.41	10.6	-35.49	-13.00	-22.49	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4500.000	-53.58	8.91	9.8	-52.69	-13.00	-39.69	V
5186.000	-31.88	9.54	10.67	-30.75	-13.00	-17.75	V
N/A							
3940.000	-52.26	8.37	9.34	-51.29	-13.00	-38.29	H
5179.000	-36.31	9.54	10.67	-35.18	-13.00	-22.18	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3968.000	-52.29	8.36	9.37	-51.28	-13.00	-38.28	V
5354.000	-28.64	9.74	10.74	-27.64	-13.00	-14.64	V
N/A							
4003.000	-53.12	8.35	9.4	-52.07	-13.00	-39.07	H
5361.000	-35.3	9.75	10.74	-34.31	-13.00	-21.31	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



For Antenna P/N: DA-B41-16-01-BL

Below 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-74.61	1.19	-1.39	-77.19	-13.00	-64.19	V
323.9100	-86.23	2.17	5.7	-82.70	-13.00	-69.70	V
411.2100	-84.01	2.45	5.9	-80.56	-13.00	-67.56	V
575.1400	-82.48	2.88	6.06	-79.30	-13.00	-66.30	V
719.6700	-81.81	3.17	6.48	-78.50	-13.00	-65.50	V
125.0600	-74.46	1.31	-1.75	-77.52	-13.00	-64.52	H
215.2700	-82.56	1.73	5.37	-78.92	-13.00	-65.92	H
431.5800	-79.4	2.5	5.81	-76.09	-13.00	-63.09	H
545.0700	-80.15	2.79	6.22	-76.72	-13.00	-63.72	H
734.2200	-77.66	3.19	6.28	-74.57	-13.00	-61.57	H
771.0800	-75.65	3.27	6.35	-72.57	-13.00	-59.57	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
151.2500	-80.91	1.43	0.8	-81.54	-13.00	-68.54	V
280.2600	-86.67	2	5.31	-83.36	-13.00	-70.36	V
431.5800	-84.58	2.5	5.81	-81.27	-13.00	-68.27	V
641.1000	-82.04	3.01	6.12	-78.93	-13.00	-65.93	V
765.2600	-80.88	3.25	6.35	-77.78	-13.00	-64.78	V
127.0000	-74.3	1.32	-1.63	-77.25	-13.00	-64.25	H
263.7700	-82.32	1.93	5.41	-78.84	-13.00	-65.84	H
463.5900	-80.7	2.61	5.84	-77.47	-13.00	-64.47	H
625.5800	-77.88	2.96	6.16	-74.68	-13.00	-61.68	H
793.3900	-76.73	3.33	6.33	-73.73	-13.00	-60.73	H
864.2000	-76.01	3.44	6.45	-73.00	-13.00	-60.00	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-74.61	1.19	-1.39	-77.19	-13.00	-64.19	V
216.2400	-84.94	1.74	5.36	-81.32	-13.00	-68.32	V
411.2100	-84.01	2.45	5.9	-80.56	-13.00	-67.56	V
516.9400	-83.87	2.7	6.07	-80.50	-13.00	-67.50	V
793.3900	-80.41	3.33	6.33	-77.41	-13.00	-64.41	V
127.0000	-74.3	1.32	-1.63	-77.25	-13.00	-64.25	H
263.7700	-82.32	1.93	5.41	-78.84	-13.00	-65.84	H
431.5800	-79.4	2.5	5.81	-76.09	-13.00	-63.09	H
598.4200	-79.14	2.9	6.37	-75.67	-13.00	-62.67	H
771.0800	-75.65	3.27	6.35	-72.57	-13.00	-59.57	H
893.3000	-75.89	3.5	6.68	-72.71	-13.00	-59.71	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-74.61	1.19	-1.39	-77.19	-13.00	-64.19	V
256.9800	-85.86	1.89	5.62	-82.13	-13.00	-69.13	V
411.2100	-84.01	2.45	5.9	-80.56	-13.00	-67.56	V
575.1400	-82.48	2.88	6.06	-79.30	-13.00	-66.30	V
765.2600	-80.88	3.25	6.35	-77.78	-13.00	-64.78	V
44.5500	-64.44	0.76	-8.84	-74.04	-13.00	-61.04	H
158.0400	-76.49	1.47	1.29	-76.67	-13.00	-63.67	H
263.7700	-82.32	1.93	5.41	-78.84	-13.00	-65.84	H
431.5800	-79.4	2.5	5.81	-76.09	-13.00	-63.09	H
625.5800	-77.88	2.96	6.16	-74.68	-13.00	-61.68	H
771.0800	-75.65	3.27	6.35	-72.57	-13.00	-59.57	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-74.61	1.19	-1.39	-77.19	-13.00	-64.19	V
260.8600	-86.8	1.91	5.56	-83.15	-13.00	-70.15	V
473.2900	-83.52	2.62	5.7	-80.44	-13.00	-67.44	V
671.1700	-81.05	3.07	6.32	-77.80	-13.00	-64.80	V
865.1700	-79.29	3.44	6.46	-76.27	-13.00	-63.27	V
158.0400	-76.49	1.47	1.29	-76.67	-13.00	-63.67	H
263.7700	-82.32	1.93	5.41	-78.84	-13.00	-65.84	H
493.6600	-79.8	2.68	5.83	-76.65	-13.00	-63.65	H
625.5800	-77.88	2.96	6.16	-74.68	-13.00	-61.68	H
771.0800	-75.65	3.27	6.35	-72.57	-13.00	-59.57	H
893.3000	-75.89	3.5	6.68	-72.71	-13.00	-59.71	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-74.61	1.19	-1.39	-77.19	-13.00	-64.19	V
256.9800	-85.86	1.89	5.62	-82.13	-13.00	-69.13	V
411.2100	-84.01	2.45	5.9	-80.56	-13.00	-67.56	V
671.1700	-81.05	3.07	6.32	-77.80	-13.00	-64.80	V
827.3400	-79.6	3.39	6.27	-76.72	-13.00	-63.72	V
66.8600	-72.53	0.93	-1.89	-75.35	-13.00	-62.35	H
158.0400	-76.49	1.47	1.29	-76.67	-13.00	-63.67	H
323.9100	-82.52	2.17	5.7	-78.99	-13.00	-65.99	H
441.2800	-80.57	2.54	5.87	-77.24	-13.00	-64.24	H
644.0100	-77.62	3.02	6.17	-74.47	-13.00	-61.47	H
831.2200	-76.41	3.39	6.31	-73.49	-13.00	-60.49	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
149.3100	-81.27	1.42	0.62	-82.07	-13.00	-69.07	V
280.2600	-85.1	2	5.31	-81.79	-13.00	-68.79	V
421.8800	-84.11	2.46	5.8	-80.77	-13.00	-67.77	V
622.6700	-82.29	2.95	6.14	-79.10	-13.00	-66.10	V
771.0800	-80.91	3.27	6.35	-77.83	-13.00	-64.83	V
157.0700	-75.49	1.47	1.22	-75.74	-13.00	-62.74	H
348.1600	-81.3	2.22	5.8	-77.72	-13.00	-64.72	H
549.9200	-79.4	2.81	6.18	-76.03	-13.00	-63.03	H
665.3500	-77.89	3.06	6.3	-74.65	-13.00	-61.65	H
844.8000	-76.55	3.41	6.4	-73.56	-13.00	-60.56	H
933.0700	-75.46	3.6	6.41	-72.65	-13.00	-59.65	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-76.71	1.19	-1.39	-79.29	-13.00	-66.29	V
229.8200	-87.16	1.8	5.39	-83.57	-13.00	-70.57	V
401.5100	-84.57	2.4	5.98	-80.99	-13.00	-67.99	V
540.2200	-84.32	2.78	6.26	-80.84	-13.00	-67.84	V
771.0800	-80.91	3.27	6.35	-77.83	-13.00	-64.83	V
157.0700	-75.49	1.47	1.22	-75.74	-13.00	-62.74	H
299.6600	-82.26	2.09	5.59	-78.76	-13.00	-65.76	H
431.5800	-78.47	2.5	5.81	-75.16	-13.00	-62.16	H
621.7000	-76.91	2.95	6.13	-73.73	-13.00	-60.73	H
705.1200	-77.95	3.13	6.34	-74.74	-13.00	-61.74	H
962.1700	-75.5	3.67	6.37	-72.80	-13.00	-59.80	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
149.3100	-81.27	1.42	0.62	-82.07	-13.00	-69.07	V
280.2600	-85.1	2	5.31	-81.79	-13.00	-68.79	V
421.8800	-84.11	2.46	5.8	-80.77	-13.00	-67.77	V
622.6700	-82.29	2.95	6.14	-79.10	-13.00	-66.10	V
771.0800	-80.91	3.27	6.35	-77.83	-13.00	-64.83	V
157.0700	-75.49	1.47	1.22	-75.74	-13.00	-62.74	H
265.7100	-82.49	1.95	5.32	-79.12	-13.00	-66.12	H
431.5800	-78.47	2.5	5.81	-75.16	-13.00	-62.16	H
596.4800	-79.9	2.9	6.33	-76.47	-13.00	-63.47	H
747.8000	-77.44	3.2	6.1	-74.54	-13.00	-61.54	H
844.8000	-76.55	3.41	6.4	-73.56	-13.00	-60.56	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 10MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-75.72	1.01	-0.94	-77.67	-13.00	-64.67	V
158.0400	-79.68	1.47	1.29	-79.86	-13.00	-66.86	V
280.2600	-85.1	2	5.31	-81.79	-13.00	-68.79	V
476.2000	-83.42	2.63	5.63	-80.42	-13.00	-67.42	V
719.6700	-81.41	3.17	6.48	-78.10	-13.00	-65.10	V
953.4400	-78.38	3.64	6.34	-75.68	-13.00	-62.68	V
127.0000	-73.98	1.32	-1.63	-76.93	-13.00	-63.93	H
265.7100	-82.49	1.95	5.32	-79.12	-13.00	-66.12	H
431.5800	-78.47	2.5	5.81	-75.16	-13.00	-62.16	H
609.0900	-79.28	2.94	6.31	-75.91	-13.00	-62.91	H
705.1200	-77.95	3.13	6.34	-74.74	-13.00	-61.74	H
914.6400	-75.89	3.57	6.6	-72.86	-13.00	-59.86	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
158.0400	-79.68	1.47	1.29	-79.86	-13.00	-66.86	V
381.1400	-85.71	2.31	5.98	-82.04	-13.00	-69.04	V
460.6800	-83.9	2.6	5.87	-80.63	-13.00	-67.63	V
643.0400	-81.9	3.01	6.16	-78.75	-13.00	-65.75	V
851.5900	-79.56	3.41	6.4	-76.57	-13.00	-63.57	V
127.0000	-73.98	1.32	-1.63	-76.93	-13.00	-63.93	H
323.9100	-82.08	2.17	5.7	-78.55	-13.00	-65.55	H
431.5800	-78.47	2.5	5.81	-75.16	-13.00	-62.16	H
549.9200	-79.4	2.81	6.18	-76.03	-13.00	-63.03	H
760.4100	-77.51	3.22	6.3	-74.43	-13.00	-61.43	H
873.9000	-76.38	3.45	6.58	-73.25	-13.00	-60.25	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.56	0.93	-1.89	-72.38	-13.00	-59.38	V
107.6000	-76.71	1.19	-1.39	-79.29	-13.00	-66.29	V
229.8200	-87.16	1.8	5.39	-83.57	-13.00	-70.57	V
493.6600	-83.7	2.68	5.83	-80.55	-13.00	-67.55	V
703.1800	-82.09	3.12	6.36	-78.85	-13.00	-65.85	V
851.5900	-79.56	3.41	6.4	-76.57	-13.00	-63.57	V
157.0700	-75.49	1.47	1.22	-75.74	-13.00	-62.74	H
299.6600	-82.26	2.09	5.59	-78.76	-13.00	-65.76	H
431.5800	-78.47	2.5	5.81	-75.16	-13.00	-62.16	H
621.7000	-76.91	2.95	6.13	-73.73	-13.00	-60.73	H
747.8000	-77.44	3.2	6.1	-74.54	-13.00	-61.54	H
805.0300	-77.14	3.33	6.41	-74.06	-13.00	-61.06	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-76.39	0.93	-1.89	-79.21	-13.00	-66.21	V
157.0700	-78.77	1.47	1.22	-79.02	-13.00	-66.02	V
357.8600	-85.64	2.26	5.72	-82.18	-13.00	-69.18	V
431.5800	-83.1	2.5	5.81	-79.79	-13.00	-66.79	V
587.7500	-82.98	2.89	6.15	-79.72	-13.00	-66.72	V
838.9800	-80.38	3.41	6.39	-77.40	-13.00	-64.40	V
44.5500	-64.1	0.76	-8.84	-73.70	-13.00	-60.70	H
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
200.7200	-78.33	1.63	3.19	-76.77	-13.00	-63.77	H
514.0300	-79.14	2.69	6.04	-75.79	-13.00	-62.79	H
736.1600	-77.14	3.2	6.23	-74.11	-13.00	-61.11	H
931.1300	-75.01	3.6	6.41	-72.20	-13.00	-59.20	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
157.0700	-78.77	1.47	1.22	-79.02	-13.00	-66.02	V
333.6100	-86.25	2.16	5.74	-82.67	-13.00	-69.67	V
473.2900	-83.49	2.62	5.7	-80.41	-13.00	-67.41	V
644.9800	-81.89	3.02	6.19	-78.72	-13.00	-65.72	V
736.1600	-81.24	3.2	6.23	-78.21	-13.00	-65.21	V
818.6100	-80.39	3.38	6.2	-77.57	-13.00	-64.57	V
57.1600	-70.81	0.86	-2.8	-74.47	-13.00	-61.47	H
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
415.0900	-80.84	2.45	5.86	-77.43	-13.00	-64.43	H
587.7500	-78.94	2.89	6.15	-75.68	-13.00	-62.68	H
838.9800	-76.43	3.41	6.39	-73.45	-13.00	-60.45	H
931.1300	-75.01	3.6	6.41	-72.20	-13.00	-59.20	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
157.0700	-78.77	1.47	1.22	-79.02	-13.00	-66.02	V
309.3600	-86.2	2.13	5.78	-82.55	-13.00	-69.55	V
399.5700	-85.84	2.39	5.98	-82.25	-13.00	-69.25	V
587.7500	-82.98	2.89	6.15	-79.72	-13.00	-66.72	V
759.4400	-81.27	3.22	6.29	-78.20	-13.00	-65.20	V
838.9800	-80.38	3.41	6.39	-77.40	-13.00	-64.40	V
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
357.8600	-81.31	2.26	5.72	-77.85	-13.00	-64.85	H
431.5800	-79.67	2.5	5.81	-76.36	-13.00	-63.36	H
587.7500	-78.94	2.89	6.15	-75.68	-13.00	-62.68	H
644.9800	-77.78	3.02	6.19	-74.61	-13.00	-61.61	H
838.9800	-76.43	3.41	6.39	-73.45	-13.00	-60.45	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 20MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-65.99	0.93	-1.89	-68.81	-13.00	-55.81	V
157.0700	-77.97	1.47	1.22	-78.22	-13.00	-65.22	V
323.9100	-84.29	2.17	5.7	-80.76	-13.00	-67.76	V
471.3500	-83.1	2.62	5.74	-79.98	-13.00	-66.98	V
646.9200	-81.78	3.02	6.23	-78.57	-13.00	-65.57	V
838.0100	-79.74	3.41	6.38	-76.77	-13.00	-63.77	V
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
357.8600	-81.31	2.26	5.72	-77.85	-13.00	-64.85	H
431.5800	-79.67	2.5	5.81	-76.36	-13.00	-63.36	H
587.7500	-78.94	2.89	6.15	-75.68	-13.00	-62.68	H
644.9800	-77.78	3.02	6.19	-74.61	-13.00	-61.61	H
818.6100	-76.73	3.38	6.2	-73.91	-13.00	-60.91	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
157.0700	-78.77	1.47	1.22	-79.02	-13.00	-66.02	V
200.7200	-83.09	1.63	3.19	-81.53	-13.00	-68.53	V
431.5800	-83.1	2.5	5.81	-79.79	-13.00	-66.79	V
638.1900	-82.62	3	6.14	-79.48	-13.00	-66.48	V
736.1600	-81.24	3.2	6.23	-78.21	-13.00	-65.21	V
896.2100	-79.16	3.51	6.65	-76.02	-13.00	-63.02	V
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
357.8600	-81.31	2.26	5.72	-77.85	-13.00	-64.85	H
431.5800	-79.67	2.5	5.81	-76.36	-13.00	-63.36	H
644.9800	-77.78	3.02	6.19	-74.61	-13.00	-61.61	H
736.1600	-77.14	3.2	6.23	-74.11	-13.00	-61.11	H
931.1300	-75.01	3.6	6.41	-72.20	-13.00	-59.20	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
157.0700	-78.77	1.47	1.22	-79.02	-13.00	-66.02	V
357.8600	-85.64	2.26	5.72	-82.18	-13.00	-69.18	V
431.5800	-83.1	2.5	5.81	-79.79	-13.00	-66.79	V
587.7500	-82.98	2.89	6.15	-79.72	-13.00	-66.72	V
692.5100	-81.92	3.12	6.47	-78.57	-13.00	-65.57	V
896.2100	-79.16	3.51	6.65	-76.02	-13.00	-63.02	V
157.0700	-75.12	1.47	1.22	-75.37	-13.00	-62.37	H
357.8600	-81.31	2.26	5.72	-77.85	-13.00	-64.85	H
431.5800	-79.67	2.5	5.81	-76.36	-13.00	-63.36	H
644.9800	-77.78	3.02	6.19	-74.61	-13.00	-61.61	H
736.1600	-77.14	3.2	6.23	-74.11	-13.00	-61.11	H
931.1300	-75.01	3.6	6.41	-72.20	-13.00	-59.20	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Above 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-26.14	9.41	10.6	-24.95	-13.00	-11.95	V
7496.000	-39.71	12.26	12.69	-39.28	-13.00	-26.28	V
N/A							
4997.000	-26.89	9.41	10.6	-25.70	-13.00	-12.70	H
7496.000	-40.6	12.26	12.69	-40.17	-13.00	-27.17	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-25.98	9.54	10.67	-24.85	-13.00	-11.85	V
7783.000	-36.6	12.42	12.98	-36.04	-13.00	-23.04	V
N/A							
5186.000	-35.29	9.54	10.67	-34.16	-13.00	-21.16	H
7776.000	-39.53	12.42	12.98	-38.97	-13.00	-25.97	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4556.000	-52.13	9.03	9.89	-51.27	-13.00	-38.27	V
5375.000	-22.71	9.78	10.75	-21.74	-13.00	-8.74	V
N/A							
5375.000	-31.08	9.78	10.75	-30.11	-13.00	-17.11	H
6691.000	-47.96	11.29	11.53	-47.72	-13.00	-34.72	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-28.76	9.41	10.6	-27.57	-13.00	-14.57	V
7496.000	-41.97	12.26	12.69	-41.54	-13.00	-28.54	V
N/A							
4997.000	-29.6	9.41	10.6	-28.41	-13.00	-15.41	H
7384.000	-44.19	12.08	12.51	-43.76	-13.00	-30.76	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-27.69	9.54	10.67	-26.56	-13.00	-13.56	V
7776.000	-38.71	12.42	12.98	-38.15	-13.00	-25.15	V
N/A							
5186.000	-34.3	9.54	10.67	-33.17	-13.00	-20.17	H
7776.000	-43.63	12.42	12.98	-43.07	-13.00	-30.07	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4332.000	-53.53	8.61	9.67	-52.47	-13.00	-39.47	V
5375.000	-26.3	9.78	10.75	-25.33	-13.00	-12.33	V
N/A							
4304.000	-51.29	8.6	9.64	-50.25	-13.00	-37.25	H
5375.000	-32.9	9.78	10.75	-31.93	-13.00	-18.93	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5004.000	-30.11	9.41	10.6	-28.92	-13.00	-15.92	V
6901.000	-48.49	11.53	11.78	-48.24	-13.00	-35.24	V
N/A							
5004.000	-34.08	9.41	10.6	-32.89	-13.00	-19.89	H
7321.000	-44.85	12.05	12.41	-44.49	-13.00	-31.49	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5193.000	-29.99	9.55	10.68	-28.86	-13.00	-15.86	V
7783.000	-42.07	12.42	12.98	-41.51	-13.00	-28.51	V
N/A							
5186.000	-34.67	9.54	10.67	-33.54	-13.00	-20.54	H
7496.000	-44.4	12.26	12.69	-43.97	-13.00	-30.97	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4521.000	-53.1	8.96	9.83	-52.23	-13.00	-39.23	V
5375.000	-28.82	9.78	10.75	-27.85	-13.00	-14.85	V
N/A							
4031.000	-52.24	8.38	9.42	-51.20	-13.00	-38.20	H
5382.000	-36.1	9.79	10.75	-35.14	-13.00	-22.14	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5004.000	-31.36	9.41	10.6	-30.17	-13.00	-17.17	V
7503.000	-40.17	12.27	12.7	-39.74	-13.00	-26.74	V
N/A							
4997.000	-31.79	9.41	10.6	-30.60	-13.00	-17.60	H
7503.000	-41.99	12.27	12.7	-41.56	-13.00	-28.56	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-28.06	9.54	10.67	-26.93	-13.00	-13.93	V
7783.000	-40.99	12.42	12.98	-40.43	-13.00	-27.43	V
N/A							
5186.000	-36.47	9.54	10.67	-35.34	-13.00	-22.34	H
7258.000	-45.99	11.96	12.31	-45.64	-13.00	-32.64	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5368.000	-28.82	9.77	10.75	-27.84	-13.00	-14.84	V
7013.000	-46.76	11.58	11.92	-46.42	-13.00	-33.42	V
N/A							
5368.000	-34.78	9.77	10.75	-33.80	-13.00	-20.80	H
7342.000	-44.27	12.06	12.45	-43.88	-13.00	-30.88	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5018.000	-33.6	9.42	10.61	-32.41	-13.00	-19.41	V
6649.000	-49.29	11.26	11.48	-49.07	-13.00	-36.07	V
N/A							
5011.000	-34.81	9.41	10.6	-33.62	-13.00	-20.62	H
7321.000	-45.03	12.05	12.41	-44.67	-13.00	-31.67	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-31.15	9.54	10.67	-30.02	-13.00	-17.02	V
7384.000	-45.87	12.08	12.51	-45.44	-13.00	-32.44	V
N/A							
5186.000	-37.96	9.54	10.67	-36.83	-13.00	-23.83	H
7160.000	-46.34	11.85	12.16	-46.03	-13.00	-33.03	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5361.000	-29.37	9.75	10.74	-28.38	-13.00	-15.38	V
7391.000	-45.05	12.09	12.53	-44.61	-13.00	-31.61	V
N/A							
5361.000	-34.93	9.75	10.74	-33.94	-13.00	-20.94	H
7489.000	-44.53	12.25	12.68	-44.10	-13.00	-31.10	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5011.000	-32	9.41	10.6	-30.81	-13.00	-17.81	V
7524.000	-43.59	12.23	12.72	-43.10	-13.00	-30.10	V
N/A							
5011.000	-35.7	9.41	10.6	-34.51	-13.00	-21.51	H
6817.000	-47.48	11.34	11.68	-47.14	-13.00	-34.14	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5200.000	-32.29	9.56	10.68	-31.17	-13.00	-18.17	V
7783.000	-42.33	12.42	12.98	-41.77	-13.00	-28.77	V
N/A							
5186.000	-39.52	9.54	10.67	-38.39	-13.00	-25.39	H
6950.000	-46.75	11.54	11.84	-46.45	-13.00	-33.45	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5368.000	-31.76	9.77	10.75	-30.78	-13.00	-17.78	V
7391.000	-45.53	12.09	12.53	-45.09	-13.00	-32.09	V
N/A							
5361.000	-37.63	9.75	10.74	-36.64	-13.00	-23.64	H
7307.000	-45.25	12.04	12.39	-44.90	-13.00	-31.90	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



For Antenna P/N: AN2600-5002BSM

Below 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode:	Tx / Low channel	Test Date:	January 20, 2015
Temperature:	26°C	Tested by:	Dennis Li
Humidity:	60% RH	Polarity:	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
415.0900	-85.25	2.45	5.86	-81.84	-13.00	-68.84	V
563.5000	-83.16	2.85	6.02	-79.99	-13.00	-66.99	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
462.6200	-79.79	2.61	5.85	-76.55	-13.00	-63.55	H
586.7800	-78.43	2.89	6.13	-75.19	-13.00	-62.19	H
769.1400	-77.11	3.27	6.39	-73.99	-13.00	-60.99	H
882.6300	-75.64	3.47	6.7	-72.41	-13.00	-59.41	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
355.9200	-85.59	2.25	5.74	-82.10	-13.00	-69.10	V
483.9600	-83.54	2.65	5.6	-80.59	-13.00	-67.59	V
586.7800	-82.46	2.89	6.13	-79.22	-13.00	-66.22	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
128.9400	-74.96	1.34	-1.5	-77.80	-13.00	-64.80	H
191.0200	-78.88	1.62	3.89	-76.61	-13.00	-63.61	H
415.0900	-79.45	2.45	5.86	-76.04	-13.00	-63.04	H
642.0700	-78.29	3.01	6.14	-75.16	-13.00	-62.16	H
806.9700	-76.05	3.34	6.34	-73.05	-13.00	-60.05	H
927.2500	-75.07	3.6	6.46	-72.21	-13.00	-59.21	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
612.0000	-82.52	2.94	6.25	-79.21	-13.00	-66.21	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
127.9700	-73.83	1.33	-1.56	-76.72	-13.00	-63.72	H
280.2600	-82.04	2	5.31	-78.73	-13.00	-65.73	H
462.6200	-79.79	2.61	5.85	-76.55	-13.00	-63.55	H
642.0700	-77.64	3.01	6.14	-74.51	-13.00	-61.51	H
882.6300	-75.64	3.47	6.7	-72.41	-13.00	-59.41	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
483.9600	-83.54	2.65	5.6	-80.59	-13.00	-67.59	V
612.0000	-82.52	2.94	6.25	-79.21	-13.00	-66.21	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
127.9700	-73.83	1.33	-1.56	-76.72	-13.00	-63.72	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
462.6200	-79.79	2.61	5.85	-76.55	-13.00	-63.55	H
586.7800	-78.43	2.89	6.13	-75.19	-13.00	-62.19	H
666.3200	-77.62	3.07	6.3	-74.39	-13.00	-61.39	H
887.4800	-75.43	3.49	6.7	-72.22	-13.00	-59.22	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
216.2400	-83.29	1.74	5.36	-79.67	-13.00	-66.67	V
290.9300	-86.93	2.03	5.43	-83.53	-13.00	-70.53	V
535.3700	-84.03	2.77	6.16	-80.64	-13.00	-67.64	V
646.9200	-82.44	3.02	6.23	-79.23	-13.00	-66.23	V
770.1100	-80.94	3.27	6.38	-77.83	-13.00	-64.83	V
915.6100	-79.83	3.58	6.6	-76.81	-13.00	-63.81	V
191.0200	-78.88	1.62	3.89	-76.61	-13.00	-63.61	H
362.7100	-80.22	2.28	5.73	-76.77	-13.00	-63.77	H
536.3400	-80.28	2.77	6.19	-76.86	-13.00	-63.86	H
612.9700	-78.61	2.94	6.23	-75.32	-13.00	-62.32	H
730.3400	-77.52	3.18	6.39	-74.31	-13.00	-61.31	H
877.7800	-75.88	3.46	6.64	-72.70	-13.00	-59.70	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
280.2600	-85.77	2	5.31	-82.46	-13.00	-69.46	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
703.1800	-81.84	3.12	6.36	-78.60	-13.00	-65.60	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
666.3200	-77.62	3.07	6.3	-74.39	-13.00	-61.39	H
869.0500	-75.96	3.44	6.5	-72.90	-13.00	-59.90	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
268.6200	-86.42	1.97	5.17	-83.22	-13.00	-70.22	V
418.0000	-84.49	2.46	5.83	-81.12	-13.00	-68.12	V
552.8300	-83.54	2.82	6.14	-80.22	-13.00	-67.22	V
768.1700	-80.49	3.26	6.38	-77.37	-13.00	-64.37	V
121.1800	-74.12	1.28	-2	-77.40	-13.00	-64.40	H
264.7400	-81.31	1.94	5.36	-77.89	-13.00	-64.89	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
562.5300	-78.49	2.85	6.01	-75.33	-13.00	-62.33	H
699.3000	-77.7	3.11	6.4	-74.41	-13.00	-61.41	H
806.9700	-75.43	3.34	6.34	-72.43	-13.00	-59.43	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
157.0700	-81.5	1.47	1.22	-81.75	-13.00	-68.75	V
431.5800	-83.62	2.5	5.81	-80.31	-13.00	-67.31	V
551.8600	-83.76	2.81	6.16	-80.41	-13.00	-67.41	V
725.4900	-81.25	3.17	6.45	-77.97	-13.00	-64.97	V
808.9100	-79.96	3.34	6.27	-77.03	-13.00	-64.03	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
401.5100	-80.31	2.4	5.98	-76.73	-13.00	-63.73	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
710.9400	-77.34	3.14	6.33	-74.15	-13.00	-61.15	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
75.5900	-77.47	1.01	-0.94	-79.42	-13.00	-66.42	V
204.6000	-83.88	1.65	4.2	-81.33	-13.00	-68.33	V
288.9900	-86.24	2.02	5.39	-82.87	-13.00	-69.87	V
426.7300	-84.24	2.48	5.8	-80.92	-13.00	-67.92	V
539.2500	-83.84	2.78	6.27	-80.35	-13.00	-67.35	V
722.5800	-81.05	3.17	6.48	-77.74	-13.00	-64.74	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
772.0500	-76.09	3.28	6.32	-73.05	-13.00	-60.05	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-74.17	0.93	-1.89	-76.99	-13.00	-63.99	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
268.6200	-86.42	1.97	5.17	-83.22	-13.00	-70.22	V
476.2000	-83.29	2.63	5.63	-80.29	-13.00	-67.29	V
704.1500	-81.86	3.13	6.35	-78.64	-13.00	-65.64	V
856.4400	-79.55	3.42	6.4	-76.57	-13.00	-63.57	V
191.0200	-77.95	1.62	3.89	-75.68	-13.00	-62.68	H
243.4000	-81.32	1.82	5.43	-77.71	-13.00	-64.71	H
431.5800	-76.14	2.5	5.81	-72.83	-13.00	-59.83	H
585.8100	-77.5	2.89	6.11	-74.28	-13.00	-61.28	H
784.6600	-75.48	3.32	6.16	-72.64	-13.00	-59.64	H
901.0600	-74.06	3.52	6.6	-70.98	-13.00	-57.98	H

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
162.8900	-82.65	1.51	1.72	-82.44	-13.00	-69.44	V
405.3900	-85.29	2.42	5.94	-81.77	-13.00	-68.77	V
551.8600	-83.76	2.81	6.16	-80.41	-13.00	-67.41	V
770.1100	-80.94	3.27	6.38	-77.83	-13.00	-64.83	V
888.4500	-79.99	3.49	6.7	-76.78	-13.00	-63.78	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
401.5100	-80.31	2.4	5.98	-76.73	-13.00	-63.73	H
467.4700	-80.07	2.61	5.81	-76.87	-13.00	-63.87	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
772.0500	-76.09	3.28	6.32	-73.05	-13.00	-60.05	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-74.17	0.93	-1.89	-76.99	-13.00	-63.99	V
204.6000	-83.88	1.65	4.2	-81.33	-13.00	-68.33	V
395.6900	-85.44	2.36	5.99	-81.81	-13.00	-68.81	V
562.5300	-82.99	2.85	6.01	-79.83	-13.00	-66.83	V
722.5800	-81.05	3.17	6.48	-77.74	-13.00	-64.74	V
841.8900	-80.14	3.41	6.4	-77.15	-13.00	-64.15	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
746.8300	-77.04	3.2	6.1	-74.14	-13.00	-61.14	H
887.4800	-75.19	3.49	6.7	-71.98	-13.00	-58.98	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 20MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.96	0.93	-1.89	-72.78	-13.00	-59.78	V
195.8700	-84.37	1.63	3.36	-82.64	-13.00	-69.64	V
370.4700	-86.04	2.3	5.82	-82.52	-13.00	-69.52	V
511.1200	-83.58	2.69	6.01	-80.26	-13.00	-67.26	V
620.7300	-81.89	2.94	6.12	-78.71	-13.00	-65.71	V
803.0900	-79.73	3.33	6.48	-76.58	-13.00	-63.58	V
125.0600	-74.03	1.31	-1.75	-77.09	-13.00	-64.09	H
333.6100	-82.83	2.16	5.74	-79.25	-13.00	-66.25	H
461.6500	-79.83	2.6	5.86	-76.57	-13.00	-63.57	H
574.1700	-78.77	2.88	6.07	-75.58	-13.00	-62.58	H
676.9900	-77.46	3.08	6.44	-74.10	-13.00	-61.10	H
840.9200	-75.83	3.41	6.4	-72.84	-13.00	-59.84	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.66	0.93	-1.89	-71.48	-13.00	-58.48	V
191.0200	-85.08	1.62	3.89	-82.81	-13.00	-69.81	V
450.0100	-83.96	2.59	5.72	-80.83	-13.00	-67.83	V
628.4900	-81.92	2.97	6.18	-78.71	-13.00	-65.71	V
723.5500	-81.55	3.17	6.47	-78.25	-13.00	-65.25	V
874.8700	-79.87	3.45	6.6	-76.72	-13.00	-63.72	V
128.9400	-75.51	1.34	-1.5	-78.35	-13.00	-65.35	H
191.0200	-80.21	1.62	3.89	-77.94	-13.00	-64.94	H
370.4700	-82.3	2.3	5.82	-78.78	-13.00	-65.78	H
431.5800	-79.33	2.5	5.81	-76.02	-13.00	-63.02	H
577.0800	-80.02	2.88	6.04	-76.86	-13.00	-63.86	H
732.2800	-78.6	3.18	6.34	-75.44	-13.00	-62.44	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
193.9300	-83.07	1.62	3.58	-81.11	-13.00	-68.11	V
401.5100	-84.61	2.4	5.98	-81.03	-13.00	-68.03	V
539.2500	-83.51	2.78	6.27	-80.02	-13.00	-67.02	V
756.5300	-80.69	3.21	6.23	-77.67	-13.00	-64.67	V
932.1000	-79.43	3.6	6.41	-76.62	-13.00	-63.62	V
123.1200	-74.3	1.29	-1.87	-77.46	-13.00	-64.46	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
403.4500	-80.71	2.41	5.96	-77.16	-13.00	-64.16	H
525.6700	-79.22	2.73	6.04	-75.91	-13.00	-62.91	H
638.1900	-77.33	3	6.14	-74.19	-13.00	-61.19	H
829.2800	-75.98	3.39	6.29	-73.08	-13.00	-60.08	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 20MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.96	0.93	-1.89	-72.78	-13.00	-59.78	V
260.8600	-86.95	1.91	5.56	-83.30	-13.00	-70.30	V
311.3000	-86.57	2.14	5.76	-82.95	-13.00	-69.95	V
511.1200	-83.58	2.69	6.01	-80.26	-13.00	-67.26	V
702.2100	-81.05	3.12	6.37	-77.80	-13.00	-64.80	V
803.0900	-79.73	3.33	6.48	-76.58	-13.00	-63.58	V
125.0600	-74.03	1.31	-1.75	-77.09	-13.00	-64.09	H
252.1300	-81.82	1.85	5.68	-77.99	-13.00	-64.99	H
388.9000	-78.97	2.32	6	-75.29	-13.00	-62.29	H
461.6500	-79.83	2.6	5.86	-76.57	-13.00	-63.57	H
658.5600	-77.34	3.05	6.3	-74.09	-13.00	-61.09	H
806.0000	-76.55	3.33	6.38	-73.50	-13.00	-60.50	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-74.46	0.93	-1.89	-77.28	-13.00	-64.28	V
207.5100	-87.4	1.67	4.95	-84.12	-13.00	-71.12	V
403.4500	-84.15	2.41	5.96	-80.60	-13.00	-67.60	V
548.9500	-84.13	2.8	6.19	-80.74	-13.00	-67.74	V
667.2900	-81.42	3.07	6.3	-78.19	-13.00	-65.19	V
749.7400	-81.37	3.2	6.1	-78.47	-13.00	-65.47	V
128.9400	-75.51	1.34	-1.5	-78.35	-13.00	-65.35	H
277.3500	-82.33	2	5.25	-79.08	-13.00	-66.08	H
431.5800	-79.33	2.5	5.81	-76.02	-13.00	-63.02	H
577.0800	-80.02	2.88	6.04	-76.86	-13.00	-63.86	H
732.2800	-78.6	3.18	6.34	-75.44	-13.00	-62.44	H
884.5700	-76.82	3.48	6.7	-73.60	-13.00	-60.60	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
151.2500	-80.46	1.43	0.8	-81.09	-13.00	-68.09	V
354.9500	-86.33	2.25	5.75	-82.83	-13.00	-69.83	V
485.9000	-83.77	2.65	5.66	-80.76	-13.00	-67.76	V
680.8700	-82.12	3.09	6.5	-78.71	-13.00	-65.71	V
815.7000	-79.82	3.37	6.2	-76.99	-13.00	-63.99	V
157.0700	-76.76	1.47	1.22	-77.01	-13.00	-64.01	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
403.4500	-80.71	2.41	5.96	-77.16	-13.00	-64.16	H
461.6500	-79.79	2.6	5.86	-76.53	-13.00	-63.53	H
694.4500	-77.38	3.12	6.45	-74.05	-13.00	-61.05	H
829.2800	-75.98	3.39	6.29	-73.08	-13.00	-60.08	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Above 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
157.0700	-76.76	1.47	1.22	-77.01	-13.00	-64.01	V
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	V
N/A							
4997.000	-33.86	9.41	10.6	-32.67	-13.00	-19.67	H
6964.000	-46.86	11.54	11.86	-46.54	-13.00	-33.54	H
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-28.54	9.54	10.67	-27.41	-13.00	-14.41	V
7020.000	-46.46	11.6	11.93	-46.13	-13.00	-33.13	V
N/A							
3919.000	-53.35	8.38	9.32	-52.41	-13.00	-39.41	H
5186.000	-34.92	9.54	10.67	-33.79	-13.00	-20.79	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4276.000	-54.06	8.57	9.62	-53.01	-13.00	-40.01	V
5375.000	-28.86	9.78	10.75	-27.89	-13.00	-14.89	V
N/A							
4304.000	-53.03	8.6	9.64	-51.99	-13.00	-38.99	H
5375.000	-33.18	9.78	10.75	-32.21	-13.00	-19.21	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-28.44	9.41	10.6	-27.25	-13.00	-14.25	V
7496.000	-39.84	12.26	12.69	-39.41	-13.00	-26.41	V
N/A							
4997.000	-33.03	9.41	10.6	-31.84	-13.00	-18.84	H
7496.000	-42.49	12.26	12.69	-42.06	-13.00	-29.06	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5186.000	-26.78	9.54	10.67	-25.65	-13.00	-12.65	V
7776.000	-41.7	12.42	12.98	-41.14	-13.00	-28.14	V
N/A							
5186.000	-34.62	9.54	10.67	-33.49	-13.00	-20.49	H
7587.000	-44.57	12.14	12.79	-43.92	-13.00	-30.92	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3926.000	-53.62	8.38	9.33	-52.67	-13.00	-39.67	V
5375.000	-28.63	9.78	10.75	-27.66	-13.00	-14.66	V
N/A							
4283.000	-52.1	8.58	9.63	-51.05	-13.00	-38.05	H
5375.000	-33.4	9.78	10.75	-32.43	-13.00	-19.43	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3891.000	-53.42	8.38	9.29	-52.51	-13.00	-39.51	V
4997.000	-32.27	9.41	10.6	-31.08	-13.00	-18.08	V
N/A							
3912.000	-52.68	8.39	9.31	-51.76	-13.00	-38.76	H
5004.000	-35.5	9.41	10.6	-34.31	-13.00	-21.31	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3478.000	-55.9	7.8	8.83	-54.87	-13.00	-41.87	V
5186.000	-29.5	9.54	10.67	-28.37	-13.00	-15.37	V
N/A							
3877.000	-53.84	8.36	9.28	-52.92	-13.00	-39.92	H
5179.000	-35.42	9.54	10.67	-34.29	-13.00	-21.29	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3982.000	-53.13	8.36	9.38	-52.11	-13.00	-39.11	V
5368.000	-31.11	9.77	10.75	-30.13	-13.00	-17.13	V
N/A							
3611.000	-54.95	8.12	9.01	-54.06	-13.00	-41.06	H
5368.000	-35.75	9.77	10.75	-34.77	-13.00	-21.77	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4388.000	-53.92	8.64	9.71	-52.85	-13.00	-39.85	V
5004.000	-31.04	9.41	10.6	-29.85	-13.00	-16.85	V
N/A							
3933.000	-53.81	8.38	9.33	-52.86	-13.00	-39.86	H
5004.000	-35.15	9.41	10.6	-33.96	-13.00	-20.96	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3989.000	-54.26	8.35	9.39	-53.22	-13.00	-40.22	V
5186.000	-29.41	9.54	10.67	-28.28	-13.00	-15.28	V
N/A							
4255.000	-53.47	8.55	9.6	-52.42	-13.00	-39.42	H
5179.000	-35.37	9.54	10.67	-34.24	-13.00	-21.24	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4367.000	-53.28	8.63	9.69	-52.22	-13.00	-39.22	V
5375.000	-31.94	9.78	10.75	-30.97	-13.00	-17.97	V
N/A							
4269.000	-53.31	8.57	9.62	-52.26	-13.00	-39.26	H
5368.000	-35.9	9.77	10.75	-34.92	-13.00	-21.92	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4339.000	-53.27	8.62	9.67	-52.22	-13.00	-39.22	V
5011.000	-33.33	9.41	10.6	-32.14	-13.00	-19.14	V
N/A							
4241.000	-53.16	8.54	9.59	-52.11	-13.00	-39.11	H
5011.000	-37.37	9.41	10.6	-36.18	-13.00	-23.18	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5179.000	-30.07	9.54	10.67	-28.94	-13.00	-15.94	V
6999.000	-47.39	11.54	11.9	-47.03	-13.00	-34.03	V
N/A							
4276.000	-51.76	8.57	9.62	-50.71	-13.00	-37.71	H
5186.000	-36.15	9.54	10.67	-35.02	-13.00	-22.02	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4311.000	-53.51	8.6	9.65	-52.46	-13.00	-39.46	V
5361.000	-33.13	9.75	10.74	-32.14	-13.00	-19.14	V
N/A							
3856.000	-53.73	8.33	9.26	-52.80	-13.00	-39.80	H
5361.000	-33.26	9.75	10.74	-32.27	-13.00	-19.27	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3107.000	-56.03	7.18	7.72	-55.49	-13.00	-42.49	V
5004.000	-33.76	9.41	10.6	-32.57	-13.00	-19.57	V
N/A							
3506.000	-55.79	7.88	8.91	-54.76	-13.00	-41.76	H
5011.000	-36.93	9.41	10.6	-35.74	-13.00	-22.74	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3877.000	-53.56	8.36	9.28	-52.64	-13.00	-39.64	V
5186.000	-31.56	9.54	10.67	-30.43	-13.00	-17.43	V
N/A							
5186.000	-33.84	9.54	10.67	-32.71	-13.00	-19.71	H
6929.000	-46	11.53	11.81	-45.72	-13.00	-32.72	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3912.000	-52.94	8.39	9.31	-52.02	-13.00	-39.02	V
5361.000	-32.94	9.75	10.74	-31.95	-13.00	-18.95	V
N/A							
3835.000	-52.68	8.31	9.23	-51.76	-13.00	-38.76	H
5354.000	-35.2	9.74	10.74	-34.20	-13.00	-21.20	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



For Antenna P/N: AN2600-6008BSM

Below 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode:	Tx / Low channel	Test Date:	January 20, 2015
Temperature:	26°C	Tested by:	Dennis Li
Humidity:	60% RH	Polarity:	Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
280.2600	-85.77	2	5.31	-82.46	-13.00	-69.46	V
437.4000	-84	2.52	5.88	-80.64	-13.00	-67.64	V
563.5000	-83.16	2.85	6.02	-79.99	-13.00	-66.99	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
462.6200	-79.79	2.61	5.85	-76.55	-13.00	-63.55	H
586.7800	-78.43	2.89	6.13	-75.19	-13.00	-62.19	H
794.3600	-75.89	3.33	6.35	-72.87	-13.00	-59.87	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
221.0900	-84.6	1.77	5.33	-81.04	-13.00	-68.04	V
451.9500	-83.79	2.59	5.75	-80.63	-13.00	-67.63	V
586.7800	-82.46	2.89	6.13	-79.22	-13.00	-66.22	V
666.3200	-81.66	3.07	6.3	-78.43	-13.00	-65.43	V
128.9400	-74.96	1.34	-1.5	-77.80	-13.00	-64.80	H
191.0200	-78.88	1.62	3.89	-76.61	-13.00	-63.61	H
415.0900	-79.45	2.45	5.86	-76.04	-13.00	-63.04	H
548.9500	-79.31	2.8	6.19	-75.92	-13.00	-62.92	H
644.9800	-77.54	3.02	6.19	-74.37	-13.00	-61.37	H
831.2200	-76.05	3.39	6.31	-73.13	-13.00	-60.13	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
527.6100	-83.76	2.74	6.02	-80.48	-13.00	-67.48	V
769.1400	-80.84	3.27	6.39	-77.72	-13.00	-64.72	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
280.2600	-82.04	2	5.31	-78.73	-13.00	-65.73	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
642.0700	-77.64	3.01	6.14	-74.51	-13.00	-61.51	H
794.3600	-75.89	3.33	6.35	-72.87	-13.00	-59.87	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
216.2400	-84.41	1.74	5.36	-80.79	-13.00	-67.79	V
395.6900	-85.7	2.36	5.99	-82.07	-13.00	-69.07	V
527.6100	-83.76	2.74	6.02	-80.48	-13.00	-67.48	V
612.0000	-82.52	2.94	6.25	-79.21	-13.00	-66.21	V
794.3600	-79.71	3.33	6.35	-76.69	-13.00	-63.69	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
216.2400	-79.77	1.74	5.36	-76.15	-13.00	-63.15	H
371.4400	-81.23	2.3	5.84	-77.69	-13.00	-64.69	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
666.3200	-77.62	3.07	6.3	-74.39	-13.00	-61.39	H
794.3600	-75.89	3.33	6.35	-72.87	-13.00	-59.87	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
191.0200	-83.71	1.62	3.89	-81.44	-13.00	-68.44	V
252.1300	-86.59	1.85	5.68	-82.76	-13.00	-69.76	V
612.9700	-82.62	2.94	6.23	-79.33	-13.00	-66.33	V
806.9700	-79.87	3.34	6.34	-76.87	-13.00	-63.87	V
909.7900	-79.57	3.57	6.6	-76.54	-13.00	-63.54	V
N/A							
128.9400	-74.96	1.34	-1.5	-77.80	-13.00	-64.80	H
191.0200	-78.88	1.62	3.89	-76.61	-13.00	-63.61	H
415.0900	-79.45	2.45	5.86	-76.04	-13.00	-63.04	H
528.5800	-80.38	2.75	6.01	-77.12	-13.00	-64.12	H
612.9700	-78.61	2.94	6.23	-75.32	-13.00	-62.32	H
927.2500	-75.07	3.6	6.46	-72.21	-13.00	-59.21	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the ackground noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.03	0.93	-1.89	-70.85	-13.00	-57.85	V
151.2500	-81.03	1.43	0.8	-81.66	-13.00	-68.66	V
280.2600	-85.77	2	5.31	-82.46	-13.00	-69.46	V
527.6100	-83.76	2.74	6.02	-80.48	-13.00	-67.48	V
781.7500	-80.41	3.31	6.13	-77.59	-13.00	-64.59	V
887.4800	-79.09	3.49	6.7	-75.88	-13.00	-62.88	V
66.8600	-64.24	0.93	-1.89	-67.06	-13.00	-54.06	H
200.7200	-79.48	1.63	3.19	-77.92	-13.00	-64.92	H
355.9200	-81.25	2.25	5.74	-77.76	-13.00	-64.76	H
527.6100	-79.21	2.74	6.02	-75.93	-13.00	-62.93	H
642.0700	-77.64	3.01	6.14	-74.51	-13.00	-61.51	H
887.4800	-75.43	3.49	6.7	-72.22	-13.00	-59.22	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** January 20, 2015**Temperature:** 26°C **Tested by:** Dennis Li**Humidity:** 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
304.5100	-86.3	2.11	5.69	-82.72	-13.00	-69.72	V
476.2000	-83.29	2.63	5.63	-80.29	-13.00	-67.29	V
704.1500	-81.86	3.13	6.35	-78.64	-13.00	-65.64	V
856.4400	-79.55	3.42	6.4	-76.57	-13.00	-63.57	V
127.0000	-76.6	1.32	-1.63	-79.55	-13.00	-66.55	H
191.0200	-80.88	1.62	3.89	-78.61	-13.00	-65.61	H
347.1900	-83.63	2.21	5.8	-80.04	-13.00	-67.04	H
494.6300	-81.81	2.68	5.84	-78.65	-13.00	-65.65	H
640.1300	-80.73	3.01	6.13	-77.61	-13.00	-64.61	H
780.7800	-77.96	3.3	6.12	-75.14	-13.00	-62.14	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
157.0700	-81.5	1.47	1.22	-81.75	-13.00	-68.75	V
431.5800	-83.62	2.5	5.81	-80.31	-13.00	-67.31	V
573.2000	-83.41	2.88	6.08	-80.21	-13.00	-67.21	V
770.1100	-80.94	3.27	6.38	-77.83	-13.00	-64.83	V
911.7300	-79.24	3.57	6.6	-76.21	-13.00	-63.21	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
368.5300	-81.47	2.3	5.79	-77.98	-13.00	-64.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
620.7300	-78.48	2.94	6.12	-75.30	-13.00	-62.30	H
710.9400	-77.34	3.14	6.33	-74.15	-13.00	-61.15	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
304.5100	-86.3	2.11	5.69	-82.72	-13.00	-69.72	V
467.4700	-83.78	2.61	5.81	-80.58	-13.00	-67.58	V
587.7500	-83.05	2.89	6.15	-79.79	-13.00	-66.79	V
807.9400	-79.86	3.34	6.3	-76.90	-13.00	-63.90	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
401.5100	-80.31	2.4	5.98	-76.73	-13.00	-63.73	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
710.9400	-77.34	3.14	6.33	-74.15	-13.00	-61.15	H
807.9400	-76.22	3.34	6.3	-73.26	-13.00	-60.26	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 10MHz / 16QAM**

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
152.2200	-80.66	1.44	0.87	-81.23	-13.00	-68.23	V
252.1300	-87	1.85	5.68	-83.17	-13.00	-70.17	V
423.8200	-84.09	2.47	5.8	-80.76	-13.00	-67.76	V
565.4400	-82.84	2.86	6.04	-79.66	-13.00	-66.66	V
773.9900	-79.85	3.28	6.26	-76.87	-13.00	-63.87	V
44.5500	-62.37	0.76	-8.84	-71.97	-13.00	-58.97	H
210.4200	-76.42	1.69	5.44	-72.67	-13.00	-59.67	H
356.8900	-79.05	2.26	5.73	-75.58	-13.00	-62.58	H
431.5800	-75.18	2.5	5.81	-71.87	-13.00	-58.87	H
678.9300	-75.81	3.09	6.48	-72.42	-13.00	-59.42	H
806.0000	-74.2	3.33	6.38	-71.15	-13.00	-58.15	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.06	0.93	-1.89	-71.88	-13.00	-58.88	V
191.0200	-85.46	1.62	3.89	-83.19	-13.00	-70.19	V
405.3900	-85.29	2.42	5.94	-81.77	-13.00	-68.77	V
573.2000	-83.41	2.88	6.08	-80.21	-13.00	-67.21	V
610.0600	-83.03	2.94	6.29	-79.68	-13.00	-66.68	V
770.1100	-80.94	3.27	6.38	-77.83	-13.00	-64.83	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
566.4100	-78.66	2.86	6.06	-75.46	-13.00	-62.46	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
807.9400	-76.22	3.34	6.3	-73.26	-13.00	-60.26	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
57.1600	-72.8	0.86	-2.8	-76.46	-13.00	-63.46	V
157.0700	-81.45	1.47	1.22	-81.70	-13.00	-68.70	V
364.6500	-85.67	2.28	5.75	-82.20	-13.00	-69.20	V
612.0000	-82.63	2.94	6.25	-79.32	-13.00	-66.32	V
807.9400	-79.86	3.34	6.3	-76.90	-13.00	-63.90	V
954.4100	-78.58	3.65	6.36	-75.87	-13.00	-62.87	V
124.0900	-73.98	1.3	-1.81	-77.09	-13.00	-64.09	H
199.7500	-77.29	1.63	2.94	-75.98	-13.00	-62.98	H
431.5800	-78.41	2.5	5.81	-75.10	-13.00	-62.10	H
566.4100	-78.66	2.86	6.06	-75.46	-13.00	-62.46	H
658.5600	-76.62	3.05	6.3	-73.37	-13.00	-60.37	H
807.9400	-76.22	3.34	6.3	-73.26	-13.00	-60.26	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*

**CHANNEL BANDWIDTH: 20MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.96	0.93	-1.89	-72.78	-13.00	-59.78	V
195.8700	-84.37	1.63	3.36	-82.64	-13.00	-69.64	V
370.4700	-86.04	2.3	5.82	-82.52	-13.00	-69.52	V
469.4100	-83.95	2.62	5.79	-80.78	-13.00	-67.78	V
601.3300	-83.37	2.91	6.39	-79.89	-13.00	-66.89	V
724.5200	-80.41	3.17	6.46	-77.12	-13.00	-64.12	V
191.0200	-79.54	1.62	3.89	-77.27	-13.00	-64.27	H
358.8300	-82	2.27	5.71	-78.56	-13.00	-65.56	H
388.9000	-78.97	2.32	6	-75.29	-13.00	-62.29	H
521.7900	-80.08	2.71	6.08	-76.71	-13.00	-63.71	H
658.5600	-77.34	3.05	6.3	-74.09	-13.00	-61.09	H
922.4000	-74.77	3.58	6.55	-71.80	-13.00	-58.80	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-68.66	0.93	-1.89	-71.48	-13.00	-58.48	V
157.0700	-80.99	1.47	1.22	-81.24	-13.00	-68.24	V
366.5900	-85.76	2.29	5.77	-82.28	-13.00	-69.28	V
482.9900	-83.02	2.65	5.58	-80.09	-13.00	-67.09	V
628.4900	-81.92	2.97	6.18	-78.71	-13.00	-65.71	V
803.0900	-79.99	3.33	6.48	-76.84	-13.00	-63.84	V
128.9400	-75.51	1.34	-1.5	-78.35	-13.00	-65.35	H
277.3500	-82.33	2	5.25	-79.08	-13.00	-66.08	H
484.9300	-80.17	2.65	5.63	-77.19	-13.00	-64.19	H
601.3300	-80.25	2.91	6.39	-76.77	-13.00	-63.77	H
767.2000	-78.61	3.26	6.37	-75.50	-13.00	-62.50	H
884.5700	-76.82	3.48	6.7	-73.60	-13.00	-60.60	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
193.9300	-83.07	1.62	3.58	-81.11	-13.00	-68.11	V
304.5100	-86.62	2.11	5.69	-83.04	-13.00	-70.04	V
539.2500	-83.51	2.78	6.27	-80.02	-13.00	-67.02	V
707.0600	-81.48	3.13	6.32	-78.29	-13.00	-65.29	V
908.8200	-79.67	3.56	6.6	-76.63	-13.00	-63.63	V
157.0700	-76.76	1.47	1.22	-77.01	-13.00	-64.01	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
344.2800	-82.46	2.19	5.8	-78.85	-13.00	-65.85	H
431.5800	-78.69	2.5	5.81	-75.38	-13.00	-62.38	H
720.6400	-77.18	3.17	6.49	-73.86	-13.00	-60.86	H
884.5700	-75.54	3.48	6.7	-72.32	-13.00	-59.32	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.96	0.93	-1.89	-72.78	-13.00	-59.78	V
157.0700	-81.13	1.47	1.22	-81.38	-13.00	-68.38	V
431.5800	-82.77	2.5	5.81	-79.46	-13.00	-66.46	V
511.1200	-83.58	2.69	6.01	-80.26	-13.00	-67.26	V
620.7300	-81.89	2.94	6.12	-78.71	-13.00	-65.71	V
803.0900	-79.73	3.33	6.48	-76.58	-13.00	-63.58	V
125.0600	-74.03	1.31	-1.75	-77.09	-13.00	-64.09	H
199.7500	-78.91	1.63	2.94	-77.60	-13.00	-64.60	H
388.9000	-78.97	2.32	6	-75.29	-13.00	-62.29	H
574.1700	-78.77	2.88	6.07	-75.58	-13.00	-62.58	H
658.5600	-77.34	3.05	6.3	-74.09	-13.00	-61.09	H
806.0000	-76.55	3.33	6.38	-73.50	-13.00	-60.50	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
32.9100	-54.81	0.66	-19.46	-74.93	-13.00	-61.93	V
159.0100	-81.99	1.48	1.36	-82.11	-13.00	-69.11	V
364.6500	-86.32	2.28	5.75	-82.85	-13.00	-69.85	V
609.0900	-84.21	2.94	6.31	-80.84	-13.00	-67.84	V
749.7400	-81.37	3.2	6.1	-78.47	-13.00	-65.47	V
871.9600	-80.4	3.45	6.55	-77.30	-13.00	-64.30	V
191.0200	-80.21	1.62	3.89	-77.94	-13.00	-64.94	H
362.7100	-83.44	2.28	5.73	-79.99	-13.00	-66.99	H
431.5800	-79.33	2.5	5.81	-76.02	-13.00	-63.02	H
601.3300	-80.25	2.91	6.39	-76.77	-13.00	-63.77	H
767.2000	-78.61	3.26	6.37	-75.50	-13.00	-62.50	H
884.5700	-76.82	3.48	6.7	-73.60	-13.00	-60.60	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
66.8600	-69.6	0.93	-1.89	-72.42	-13.00	-59.42	V
193.9300	-83.07	1.62	3.58	-81.11	-13.00	-68.11	V
368.5300	-85.76	2.3	5.79	-82.27	-13.00	-69.27	V
539.2500	-83.51	2.78	6.27	-80.02	-13.00	-67.02	V
707.0600	-81.48	3.13	6.32	-78.29	-13.00	-65.29	V
815.7000	-79.82	3.37	6.2	-76.99	-13.00	-63.99	V
157.0700	-76.76	1.47	1.22	-77.01	-13.00	-64.01	H
203.6300	-78.51	1.65	3.94	-76.22	-13.00	-63.22	H
378.2300	-81.94	2.31	5.96	-78.29	-13.00	-65.29	H
431.5800	-78.69	2.5	5.81	-75.38	-13.00	-62.38	H
621.7000	-77.76	2.95	6.13	-74.58	-13.00	-61.58	H
769.1400	-77.08	3.27	6.39	-73.96	-13.00	-60.96	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Above 1GHz

CHANNEL BANDWIDTH: 5MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-24.55	9.41	10.6	-23.36	-13.00	-10.36	V
7496.000	-40.29	12.26	12.69	-39.86	-13.00	-26.86	V
N/A							
4997.000	-33.89	9.41	10.6	-32.70	-13.00	-19.70	H
6579.000	-48.45	11.19	11.39	-48.25	-13.00	-35.25	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3590.000	-55.43	8.09	8.99	-54.53	-13.00	-41.53	V
5186.000	-28.06	9.54	10.67	-26.93	-13.00	-13.93	V
N/A							
5186.000	-34.42	9.54	10.67	-33.29	-13.00	-20.29	H
7496.000	-44.54	12.26	12.69	-44.11	-13.00	-31.11	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4010.000	-53.29	8.36	9.41	-52.24	-13.00	-39.24	V
5375.000	-29.19	9.78	10.75	-28.22	-13.00	-15.22	V
N/A							
3877.000	-53.41	8.36	9.28	-52.49	-13.00	-39.49	H
5375.000	-32.95	9.78	10.75	-31.98	-13.00	-18.98	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 5MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-28.06	9.41	10.6	-26.87	-13.00	-13.87	V
7496.000	-41.2	12.26	12.69	-40.77	-13.00	-27.77	V
N/A							
4997.000	-33.93	9.41	10.6	-32.74	-13.00	-19.74	H
6915.000	-47.73	11.53	11.8	-47.46	-13.00	-34.46	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5193.000	-27.98	9.55	10.68	-26.85	-13.00	-13.85	V
7503.000	-45.02	12.27	12.7	-44.59	-13.00	-31.59	V
N/A							
4087.000	-53.04	8.45	9.47	-52.02	-13.00	-39.02	H
5186.000	-35.22	9.54	10.67	-34.09	-13.00	-21.09	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5375.000	-29.22	9.78	10.75	-28.25	-13.00	-15.25	V
7006.000	-47.57	11.56	11.91	-47.22	-13.00	-34.22	V
N/A							
3982.000	-52.98	8.36	9.38	-51.96	-13.00	-38.96	H
5375.000	-32.86	9.78	10.75	-31.89	-13.00	-18.89	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5004.000	-33.38	9.41	10.6	-32.19	-13.00	-19.19	V
7510.000	-42.93	12.25	12.71	-42.47	-13.00	-29.47	V
N/A							
5004.000	-35.39	9.41	10.6	-34.20	-13.00	-21.20	H
7146.000	-46.12	11.84	12.13	-45.83	-13.00	-32.83	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3541.000	-55.29	7.97	8.94	-54.32	-13.00	-41.32	V
5186.000	-29.67	9.54	10.67	-28.54	-13.00	-15.54	V
N/A							
4045.000	-53.42	8.4	9.44	-52.38	-13.00	-39.38	H
5186.000	-35.61	9.54	10.67	-34.48	-13.00	-21.48	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3996.000	-53.7	8.35	9.4	-52.65	-13.00	-39.65	V
5368.000	-30.89	9.77	10.75	-29.91	-13.00	-16.91	V
N/A							
3765.000	-54.2	8.24	9.16	-53.28	-13.00	-40.28	H
5368.000	-37.19	9.77	10.75	-36.21	-13.00	-23.21	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 10MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4997.000	-31.41	9.41	10.6	-30.22	-13.00	-17.22	V
6999.000	-48.18	11.54	11.9	-47.82	-13.00	-34.82	V
N/A							
3884.000	-53.29	8.37	9.28	-52.38	-13.00	-39.38	H
5004.000	-36.38	9.41	10.6	-35.19	-13.00	-22.19	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-55.22	8.2	9.1	-54.32	-13.00	-41.32	V
5179.000	-29.09	9.54	10.67	-27.96	-13.00	-14.96	V
N/A							
3947.000	-53.84	8.37	9.35	-52.86	-13.00	-39.86	H
5186.000	-34.14	9.54	10.67	-33.01	-13.00	-20.01	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4213.000	-53.72	8.5	9.57	-52.65	-13.00	-39.65	V
5368.000	-31.72	9.77	10.75	-30.74	-13.00	-17.74	V
N/A							
4290.000	-52.2	8.59	9.63	-51.16	-13.00	-38.16	H
5375.000	-35.3	9.78	10.75	-34.33	-13.00	-21.33	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / QPSK

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3898.000	-53.68	8.39	9.3	-52.77	-13.00	-39.77	V
5011.000	-31.81	9.41	10.6	-30.62	-13.00	-17.62	V
N/A							
3177.000	-55.98	7.24	7.93	-55.29	-13.00	-42.29	H
5011.000	-35.7	9.41	10.6	-34.51	-13.00	-21.51	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3870.000	-54.18	8.35	9.27	-53.26	-13.00	-40.26	V
5186.000	-32.02	9.54	10.67	-30.89	-13.00	-17.89	V
N/A							
3891.000	-52.37	8.38	9.29	-51.46	-13.00	-38.46	H
5186.000	-37.47	9.54	10.67	-36.34	-13.00	-23.34	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4304.000	-53.88	8.6	9.64	-52.84	-13.00	-39.84	V
5361.000	-30.31	9.75	10.74	-29.32	-13.00	-16.32	V
N/A							
5361.000	-35.49	9.75	10.74	-34.50	-13.00	-21.50	H
7412.000	-44.86	12.11	12.56	-44.41	-13.00	-31.41	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



CHANNEL BANDWIDTH: 20MHz / 16QAM

Operation Mode: Tx / Low channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4318.000	-53.45	8.61	9.65	-52.41	-13.00	-39.41	V
5011.000	-33.12	9.41	10.6	-31.93	-13.00	-18.93	V
N/A							
3142.000	-55.12	7.21	7.83	-54.50	-13.00	-41.50	H
5004.000	-37.06	9.41	10.6	-35.87	-13.00	-22.87	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3541.000	-55.48	7.97	8.94	-54.51	-13.00	-41.51	V
5179.000	-32.63	9.54	10.67	-31.50	-13.00	-18.50	V
N/A							
3954.000	-51.71	8.37	9.35	-50.73	-13.00	-37.73	H
5186.000	-33.84	9.54	10.67	-32.71	-13.00	-19.71	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel **Test Date:** January 20, 2015
Temperature: 26°C **Tested by:** Dennis Li
Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4346.000	-53.32	8.62	9.68	-52.26	-13.00	-39.26	V
5354.000	-32.77	9.74	10.74	-31.77	-13.00	-18.77	V
N/A							
3856.000	-52.4	8.33	9.26	-51.47	-13.00	-38.47	H
5361.000	-33.23	9.75	10.74	-32.24	-13.00	-19.24	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*