



FCC RADIO TEST REPORT-WIFI

FCC ID:2AFMZ-K3

Product : RTEEK K3

Trade Name : RTEEK

Model Name : K3

Serial Model : N/A

Report No. : NTEK-2015NT07212321F2

Prepared for

Access Telecom

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name Access Telecom

Address..... 1882 NW 97th Avenue, Miami, Florida 33172, United States

Manufacture's Name... LOCOPO Technology Co, Limited

Address..... Shenzhen futian district tianan digital city with four LuJinSong building 12 d

Product description

Product name..... RTEEK K3

Model and/or type
reference K3

Serial Model N/A

Standards FCC Part15.247 01 Oct. 2014

Test procedure ANSI C63.10-2013 and KDB 558074: June 5, 2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests..... 21 Jul. 2015 ~13 Aug. 2015

Date of Issue 13 Aug. 2015

Test Result..... **Pass**

Testing Engineer : Jason chen
(Jason Chen)

Technical Manager : Brown Lu
(Brown Lu)

Authorized Signatory : Sam. chen
(Sam Chen)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	RTEEK K3	
Trade Name	RTEEK	
Model Name	K3	
Serial Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz/40MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20MHz:11CH 802.11n40MHz:7CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	1.0 dBi
Channel List	Please refer to the Note 2.	
Ratings	DC 3.7V	
Adapter	Mode : YMK-12W050200B Input: 100-240V~, 50/60Hz, 0.15A Output: 5.0V $\overline{\text{---}}$, 2000mA	
Battery	DC 3.7V, 1300mAh	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List for 802.11b/g/n(20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Ceramic Antenna	N/A	1.0	WIFI Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

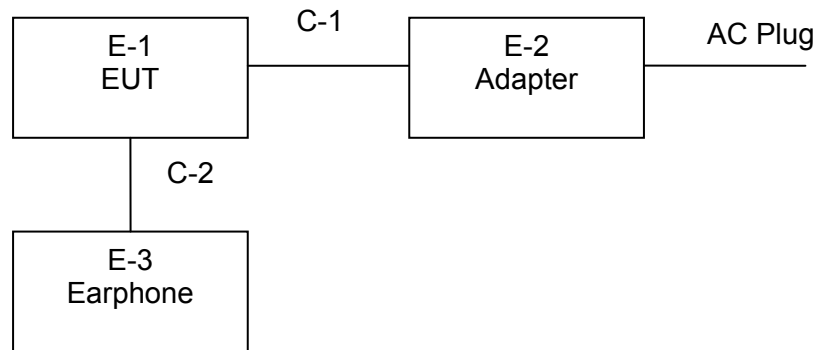
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) EUT configured to transmit continuously:

Operated Mode for Worst Duty Cycle	
Test Signal Duty Cycle (x)	Average correction factor (dB)
100% - IEEE 802.11b	0
100% - IEEE 802.11g	0
100% - IEEE 802.11n (HT20)	0
100% - IEEE 802.11n (HT40)	0

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	RTEEK K3	RTEEK	K3	N/A	EUT
E-2	Adapter	N/A	YMK-12W050200B	N/A	
E-3	Earphone	N/A	2688		

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN .

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

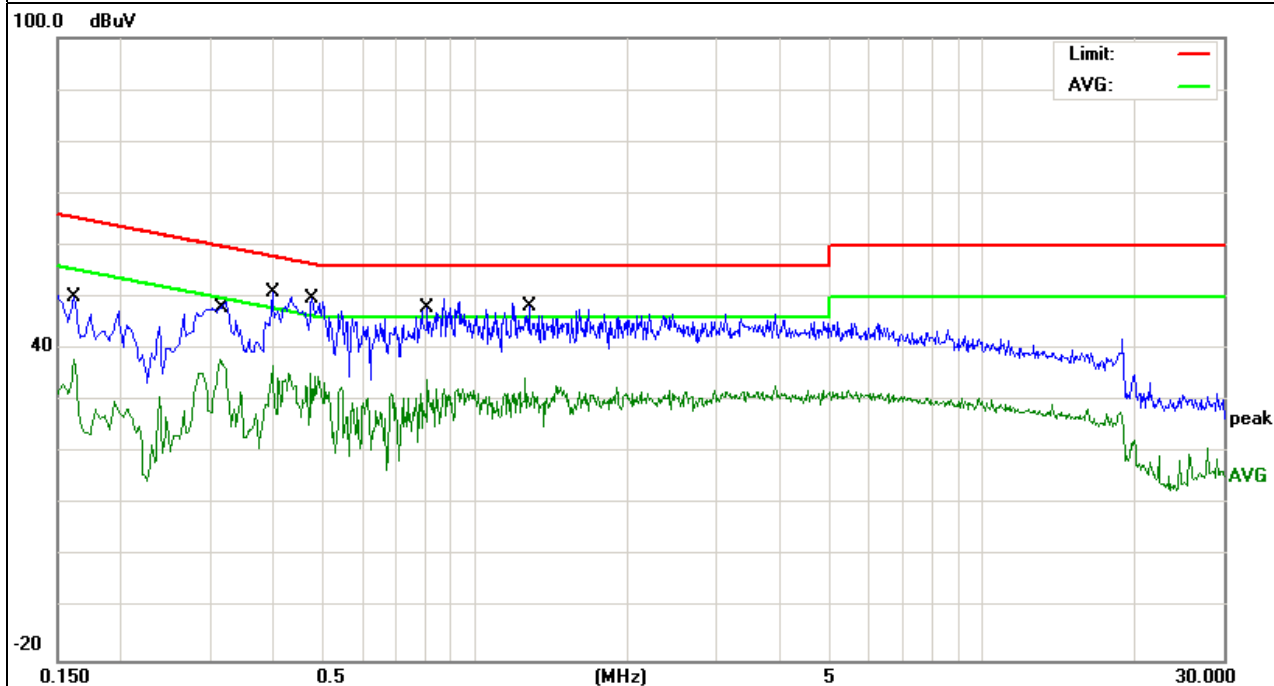
3.1.6 TEST RESULTS

EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	40.54	9.62	50.16	65.36	-15.20	QP
0.1620	28.29	9.62	37.91	55.36	-17.45	AVG
0.3140	38.18	9.69	47.87	59.86	-11.99	QP
0.3140	28.31	9.69	38.00	49.86	-11.86	AVG
0.3980	41.68	9.37	51.05	57.89	-6.84	QP
0.3980	27.51	9.37	36.88	47.89	-11.01	AVG
0.4780	40.15	9.68	49.83	56.37	-6.54	QP
0.4780	25.69	9.68	35.37	46.37	-11.00	AVG
0.8059	38.05	9.77	47.82	56.00	-8.18	QP
0.8059	24.33	9.77	34.10	46.00	-11.90	AVG
1.2780	38.50	9.71	48.21	56.00	-7.79	QP
1.2780	24.73	9.71	34.44	46.00	-11.56	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

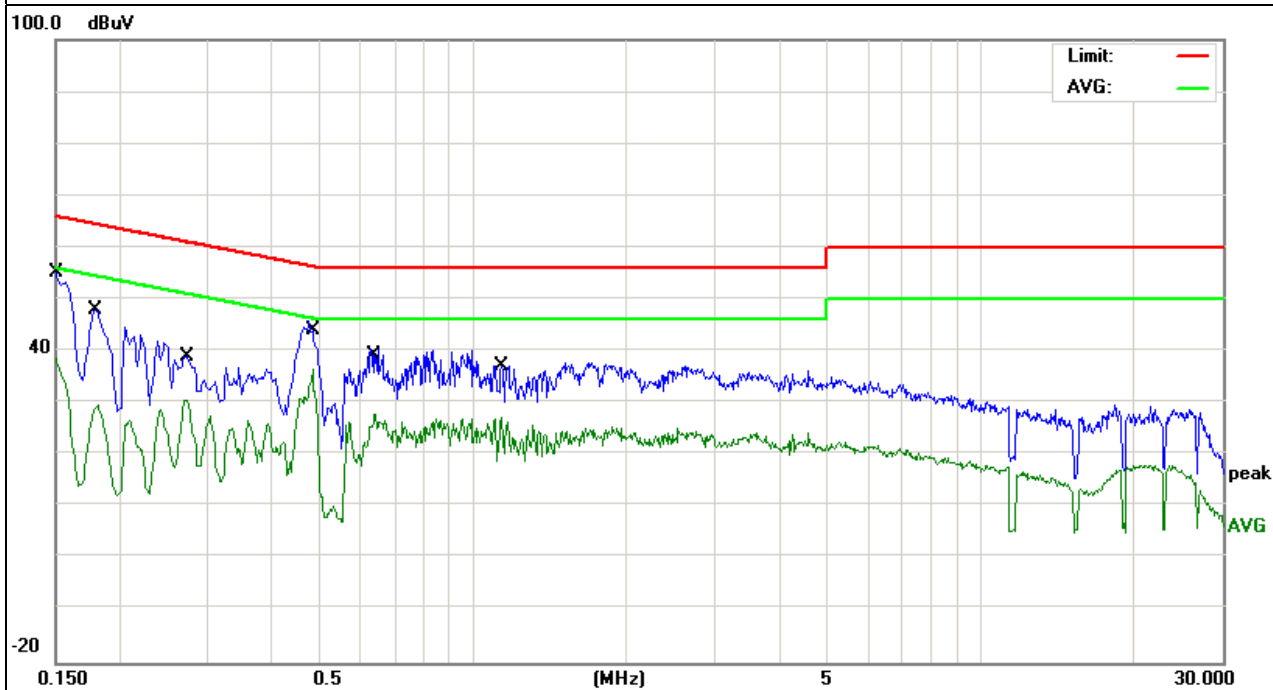


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	45.50	9.60	55.10	65.99	-10.89	QP
0.1500	29.00	9.60	38.60	55.99	-17.39	AVG
0.1819	36.79	9.61	46.40	64.39	-17.99	QP
0.1819	19.91	9.61	29.52	54.39	-24.87	AVG
0.2740	28.86	9.62	38.48	60.99	-22.51	QP
0.2740	21.06	9.62	30.68	50.99	-20.31	AVG
0.4820	36.05	9.68	45.73	56.30	-10.57	QP
0.4820	26.99	9.68	36.67	46.30	-9.63	AVG
0.6380	30.91	9.65	40.56	56.00	-15.44	QP
0.6380	18.23	9.65	27.88	46.00	-18.12	AVG
1.1380	27.66	9.60	37.26	56.00	-18.74	QP
1.1380	17.66	9.60	27.26	46.00	-18.74	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

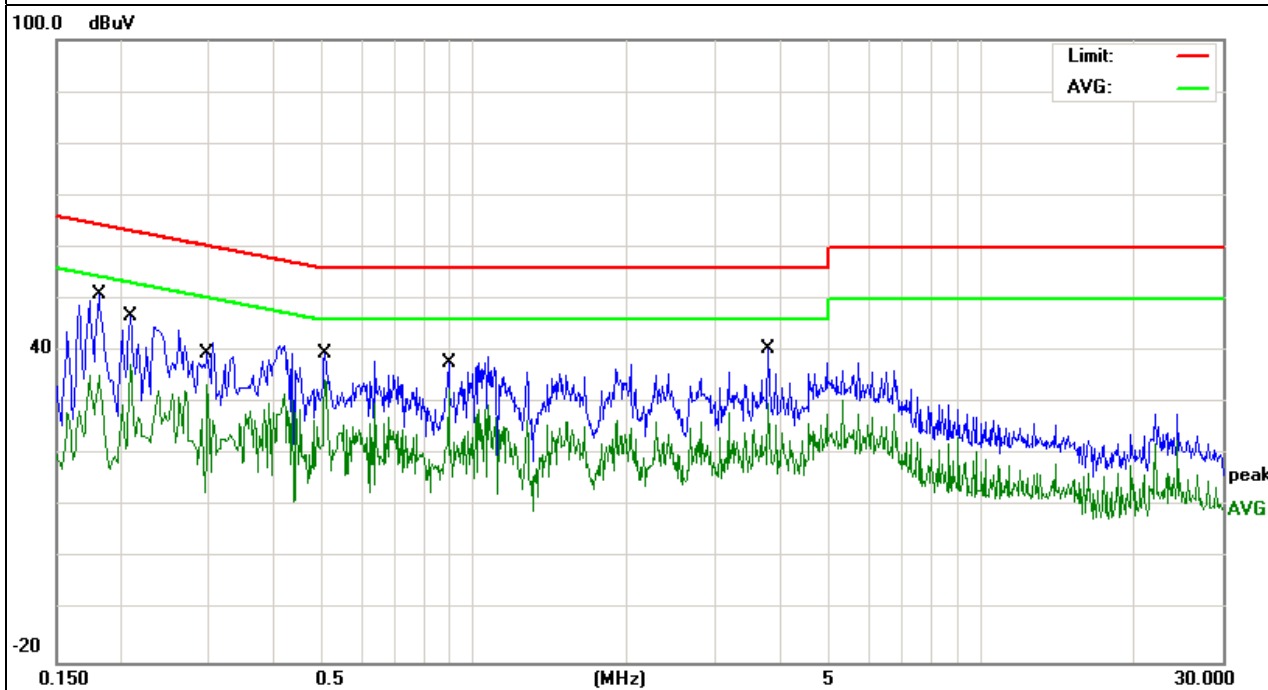


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	41.29	9.61	50.90	64.39	-13.49	QP
0.1819	25.80	9.61	35.41	54.39	-18.98	AVG
0.2099	37.09	9.61	46.70	63.21	-16.51	QP
0.2099	27.84	9.61	37.45	53.21	-15.76	AVG
0.2977	29.69	9.74	39.43	60.30	-20.87	QP
0.2977	23.69	9.74	33.43	50.30	-16.87	AVG
0.5100	29.81	9.77	39.58	56.00	-16.42	QP
0.5100	24.59	9.77	34.36	46.00	-11.64	AVG
0.8940	28.00	9.75	37.75	56.00	-18.25	QP
0.8940	22.92	9.75	32.67	46.00	-13.33	AVG
3.8180	30.68	9.70	40.38	56.00	-15.62	QP
3.8180	20.22	9.70	29.92	46.00	-16.08	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

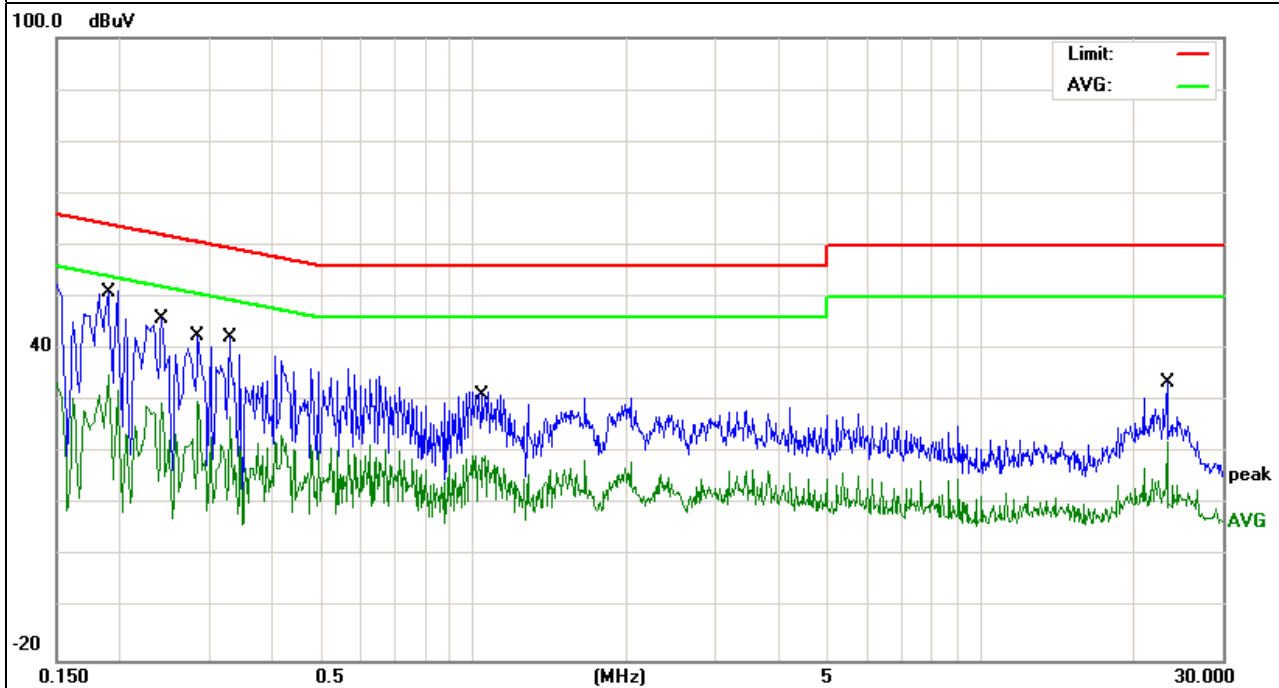


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form Adapter AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1900	41.39	9.61	51.00	64.03	-13.03	QP
0.1900	25.58	9.61	35.19	54.03	-18.84	AVG
0.2419	36.31	9.66	45.97	62.03	-16.06	QP
0.2419	19.91	9.66	29.57	52.03	-22.46	AVG
0.2858	32.82	9.72	42.54	60.64	-18.10	QP
0.2858	20.27	9.72	29.99	50.64	-20.65	AVG
0.3300	32.76	9.63	42.39	59.45	-17.06	QP
0.3300	17.22	9.63	26.85	49.45	-22.60	AVG
1.0540	21.83	9.73	31.56	56.00	-24.44	QP
1.0540	9.76	9.73	19.49	46.00	-26.51	AVG
23.3338	23.58	9.94	33.52	60.00	-26.48	QP
23.3338	12.32	9.94	22.26	50.00	-27.74	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

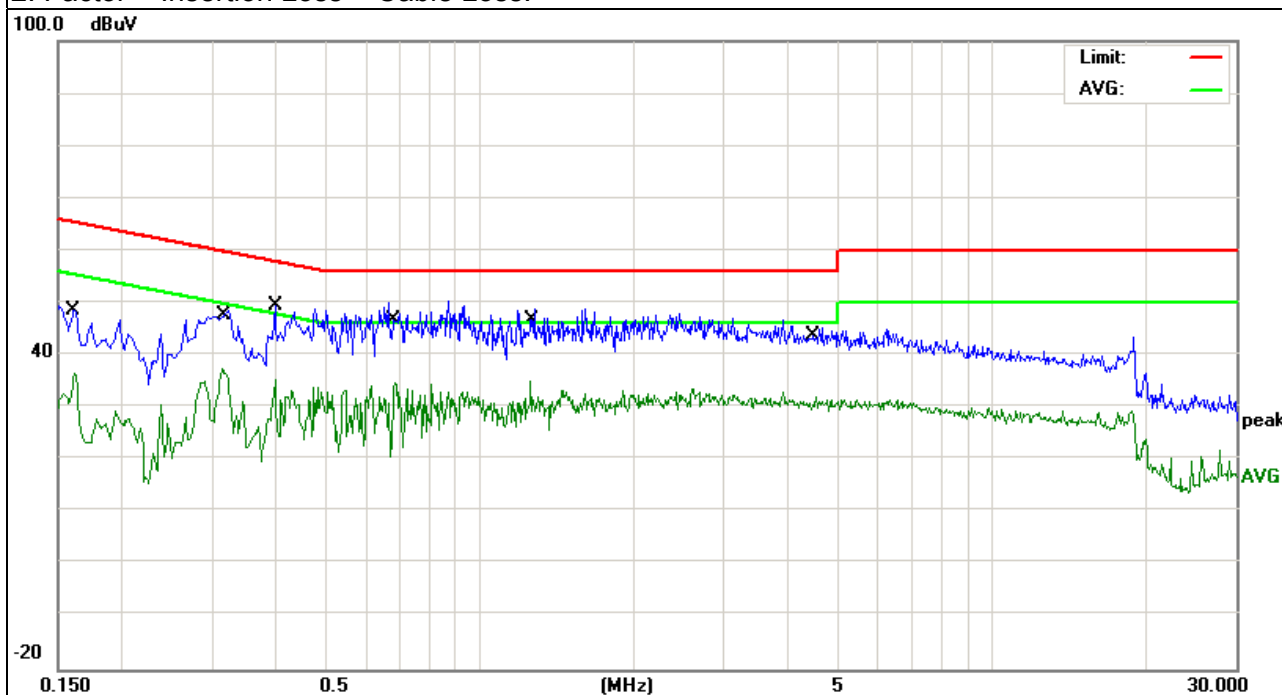


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	39.08	9.62	48.70	65.36	-16.66	QP
0.1620	26.79	9.62	36.41	55.36	-18.95	AVG
0.3140	37.62	9.69	47.31	59.86	-12.55	QP
0.3140	27.81	9.69	37.50	49.86	-12.36	AVG
0.3980	40.18	9.37	49.55	57.89	-8.34	QP
0.3980	26.01	9.37	35.38	47.89	-12.51	AVG
0.6860	39.27	9.78	49.05	56.00	-6.95	QP
0.6860	25.08	9.78	34.86	46.00	-11.14	AVG
1.2579	38.74	9.71	48.45	56.00	-7.55	QP
1.2579	25.23	9.71	34.94	46.00	-11.06	AVG
4.5458	34.45	9.70	44.15	56.00	-11.85	QP
4.5458	22.36	9.70	32.06	46.00	-13.94	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

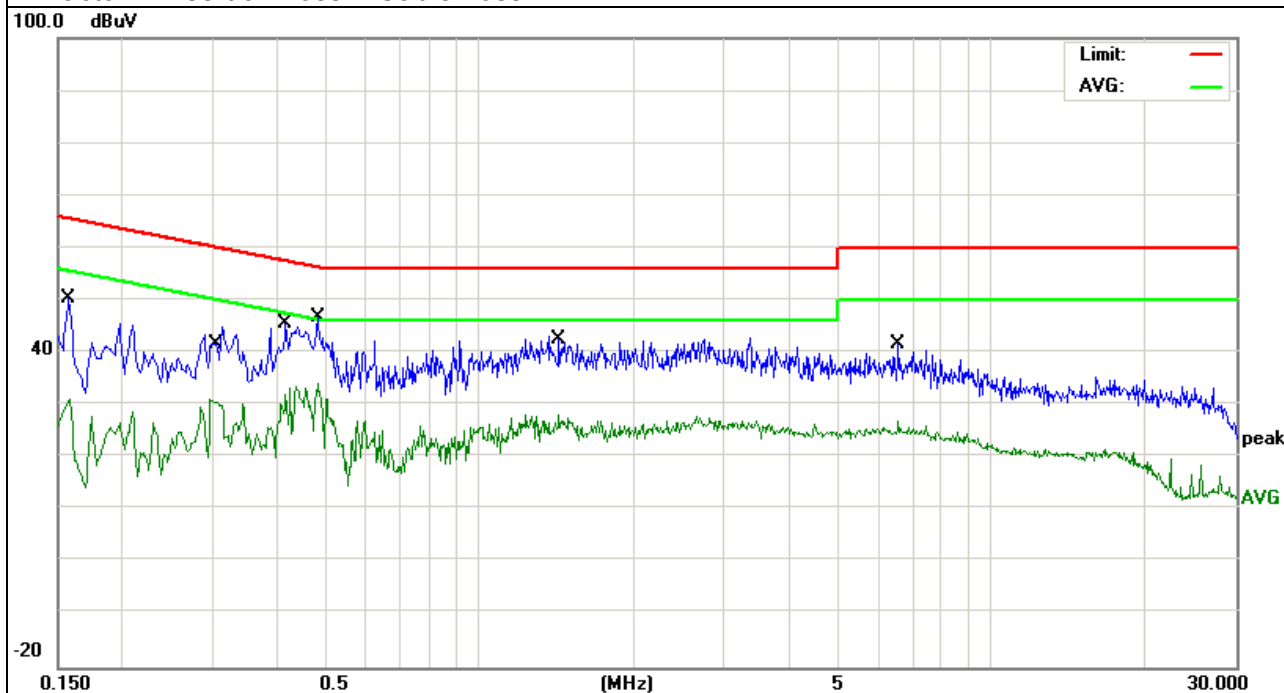


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	40.69	9.62	50.31	65.56	-15.25	QP
0.1580	21.50	9.62	31.12	55.56	-24.44	AVG
0.3002	31.81	9.75	41.56	60.23	-18.67	QP
0.3002	21.30	9.75	31.05	50.23	-19.18	AVG
0.4179	35.97	9.43	45.40	57.49	-12.09	QP
0.4179	22.59	9.43	32.02	47.49	-15.47	AVG
0.4819	34.70	9.70	44.40	56.31	-11.91	QP
0.4819	24.39	9.70	34.09	46.31	-12.22	AVG
1.4259	32.73	9.70	42.43	56.00	-13.57	QP
1.4259	18.46	9.70	28.16	46.00	-17.84	AVG
6.5858	31.87	9.70	41.57	60.00	-18.43	QP
6.5858	17.29	9.70	26.99	50.00	-23.01	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

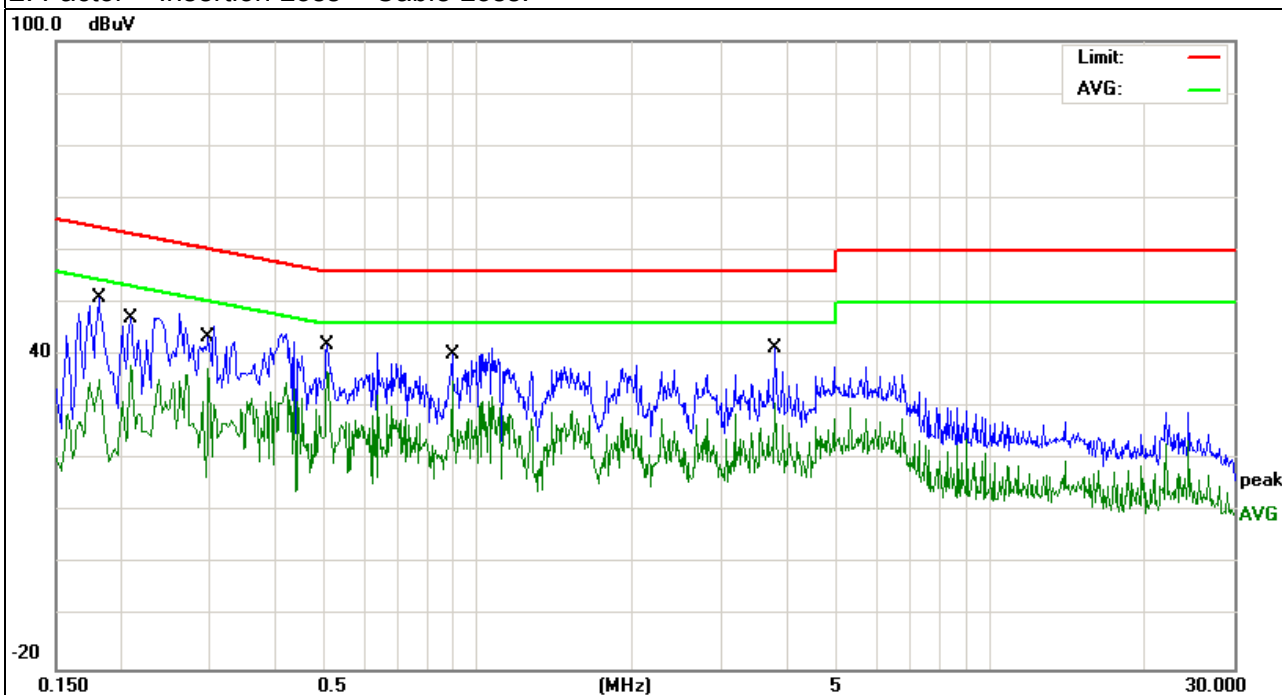


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1819	41.29	9.61	50.90	64.39	-13.49	QP
0.1819	25.80	9.61	35.41	54.39	-18.98	AVG
0.2099	37.59	9.61	47.20	63.21	-16.01	QP
0.2099	28.34	9.61	37.95	53.21	-15.26	AVG
0.2977	33.69	9.74	43.43	60.30	-16.87	QP
0.2977	27.69	9.74	37.43	50.30	-12.87	AVG
0.5100	30.47	9.77	40.24	56.00	-15.76	QP
0.5100	27.09	9.77	36.86	46.00	-9.14	AVG
0.8940	30.50	9.75	40.25	56.00	-15.75	QP
0.8940	25.42	9.75	35.17	46.00	-10.83	AVG
3.8180	31.68	9.70	41.38	56.00	-14.62	QP
3.8180	21.22	9.70	30.92	46.00	-15.08	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

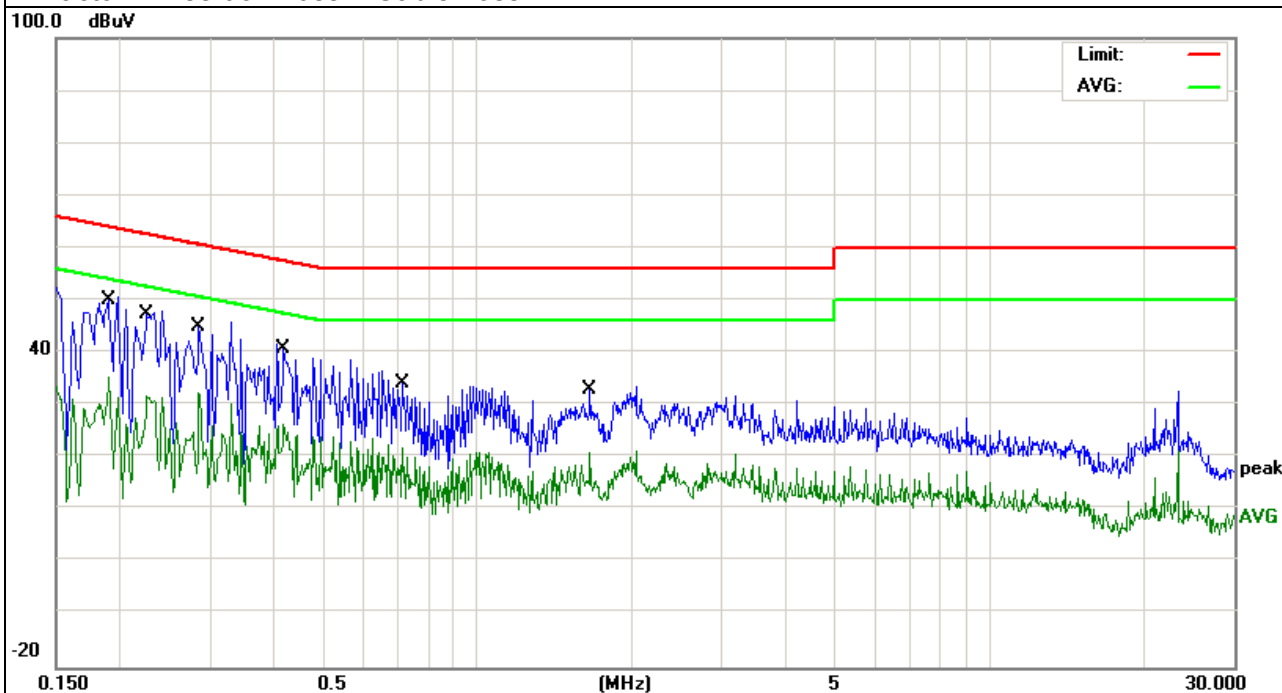


EUT :	RTEEK K3	Model Name :	K3
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V form PC AC 240V/60Hz	Test Mode :	Mode 5

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1901	39.93	9.61	49.54	64.03	-14.49	QP
0.1901	25.61	9.61	35.22	54.03	-18.81	AVG
0.2260	37.62	9.64	47.26	62.59	-15.33	QP
0.2260	22.03	9.64	31.67	52.59	-20.92	AVG
0.2857	35.32	9.72	45.04	60.65	-15.61	QP
0.2857	22.77	9.72	32.49	50.65	-18.16	AVG
0.4178	32.07	9.43	41.50	57.49	-15.99	QP
0.4178	17.01	9.43	26.44	47.49	-21.05	AVG
0.7137	24.46	9.78	34.24	56.00	-21.76	QP
0.7137	11.96	9.78	21.74	46.00	-24.26	AVG
1.6537	23.26	9.67	32.93	56.00	-23.07	QP
1.6537	11.34	9.67	21.01	46.00	-24.99	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	dBuV/m@at 3M	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

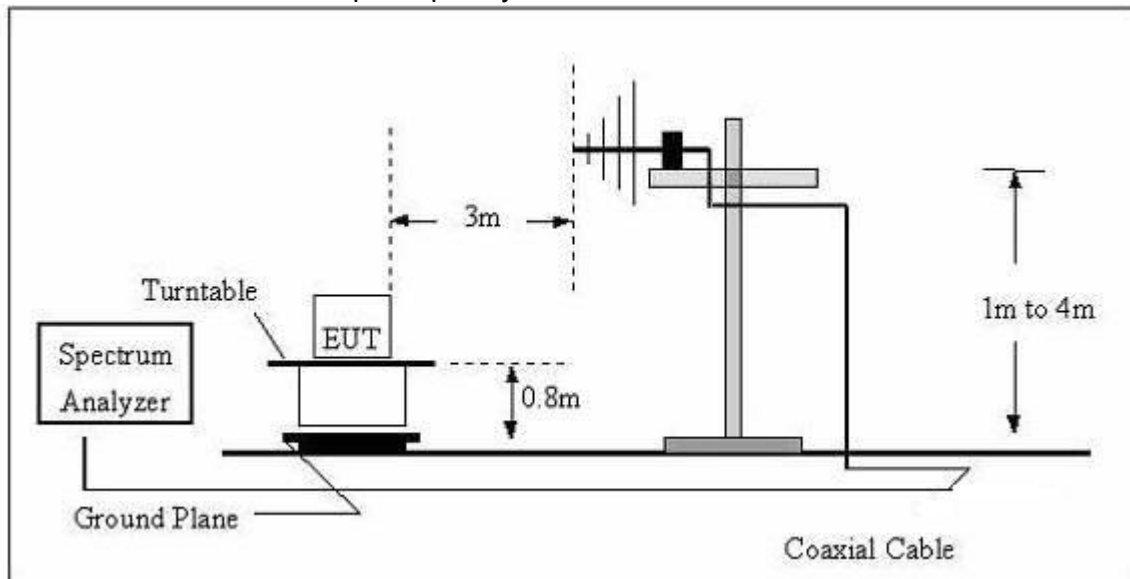
No deviation

3.2.4 TEST SETUP

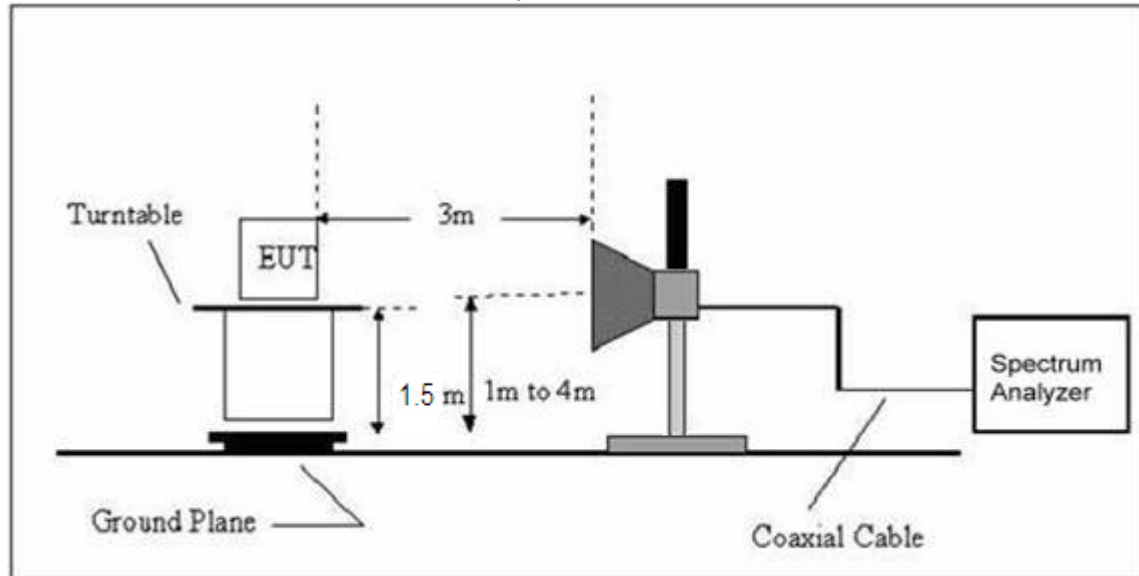
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz

**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	RTEEK K3	Model Name. :	K3
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

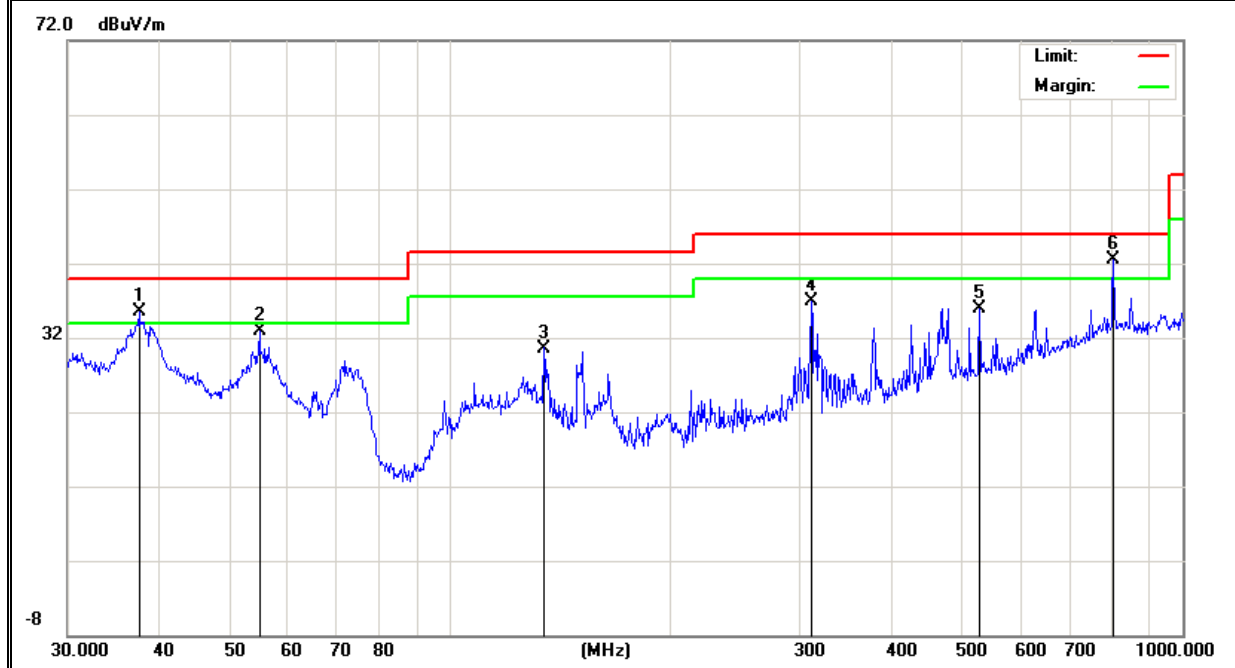
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	RTEEK K3	Model Name :	K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	37.5478	20.42	15.08	35.50	40.00	-4.50	QP
V	54.8348	23.69	9.31	33.00	40.00	-7.00	QP
V	134.0882	18.90	11.70	30.60	43.50	-12.90	QP
V	311.0867	22.38	14.62	37.00	46.00	-9.00	QP
V	528.2458	15.10	20.88	35.98	46.00	-10.02	QP
V	804.6028	15.10	27.40	42.50	46.00	-3.50	QP

Remark:

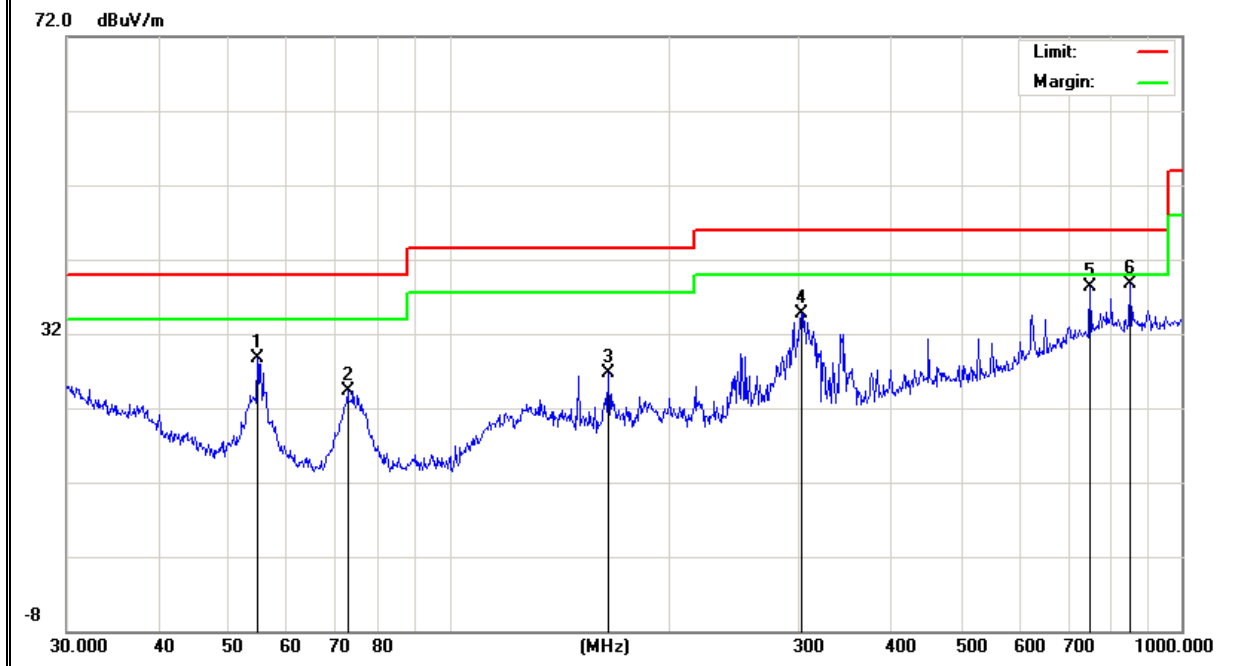
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	54.6428	19.33	9.37	28.70	40.00	-11.30	QP
H	72.5916	18.76	5.64	24.40	40.00	-15.60	QP
H	164.9071	16.17	10.51	26.68	43.50	-16.82	QP
H	302.4812	20.45	14.25	34.70	46.00	-11.30	QP
H	750.1082	12.30	26.10	38.40	46.00	-7.60	QP
H	851.0353	11.48	27.22	38.70	46.00	-7.30	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	RTEEK K3	Model Name :	K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2412 MHz)							
4824.085	53.12	10.44	63.56	74.00	-10.44	Pk	Vertical
4824.085	34.36	10.44	44.80	54.00	-9.20	Av	Vertical
7236.116	46.33	12.39	58.72	74.00	-15.28	Pk	Vertical
7236.116	30.61	12.39	43.00	54.00	-11.00	Av	Vertical
4824.206	54.46	10.44	64.90	74.00	-9.10	Pk	Horizontal
4824.206	35.59	10.44	46.03	54.00	-7.97	Av	Horizontal
7236.303	47.03	12.39	59.42	74.00	-14.58	Pk	Horizontal
7236.303	32.17	12.39	44.56	54.00	-9.44	Av	Horizontal
Middel Channel (2437 MHz)							
4874.206	51.95	10.40	62.35	74.00	-11.65	Pk	Vertical
4874.206	32.86	10.40	43.26	54.00	-10.74	Av	Vertical
7311.148	45.61	12.75	58.36	74.00	-15.64	Pk	Vertical
7311.148	28.56	12.75	41.31	54.00	-12.69	Av	Vertical
4874.146	52.72	10.40	63.12	74.00	-10.88	Pk	Horizontal
4874.146	33.95	10.40	44.35	54.00	-9.65	Av	Horizontal
7311.204	48.83	12.75	61.58	74.00	-12.42	Pk	Horizontal
7311.204	29.52	12.75	42.27	54.00	-11.73	Av	Horizontal
High Channel (2462 MHz)							
4924.114	51.89	10.39	62.28	74.00	-11.72	Pk	Vertical
4924.114	33.52	10.39	43.91	54.00	-10.09	Av	Vertical
7386.203	45.29	12.68	57.97	74.00	-16.03	Pk	Vertical
7386.203	28.93	12.68	41.61	54.00	-12.39	Av	Vertical
4924.185	51.92	10.39	62.31	74.00	-11.69	Pk	Horizontal
4924.185	34.02	10.39	44.41	54.00	-9.59	Av	Horizontal
7386.206	48.31	12.68	60.99	74.00	-13.01	Pk	Horizontal
7386.206	29.56	12.68	42.24	54.00	-11.76	Av	Horizontal

Note: "802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average didn't record.

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

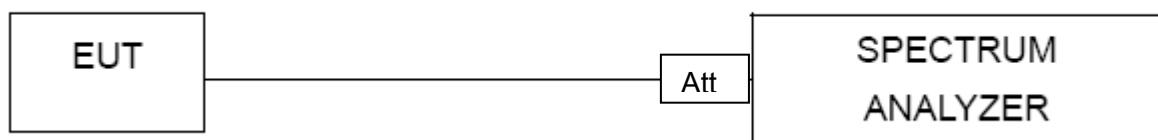
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. 3 kHz \leq Set the RBW \leq 100 kHz.
4. Set the VBW \geq 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



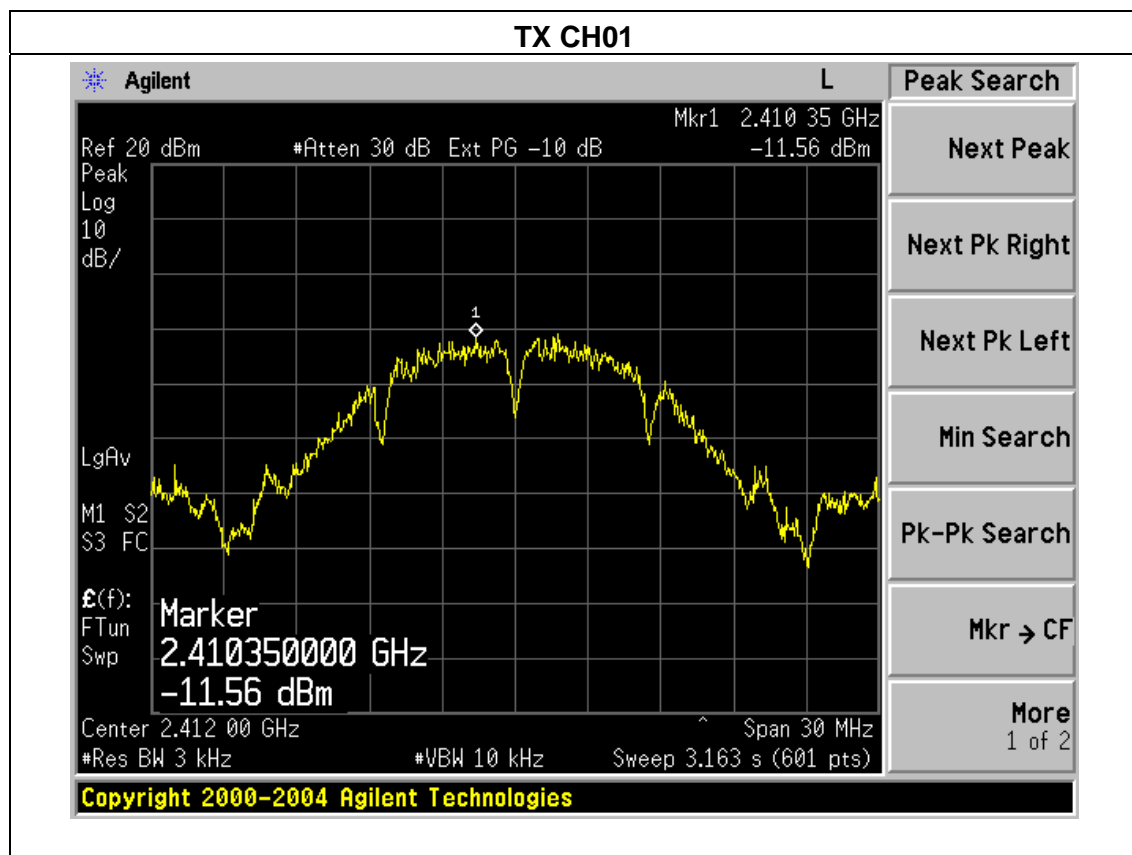
4.1.4 EUT OPERATION CONDITIONS

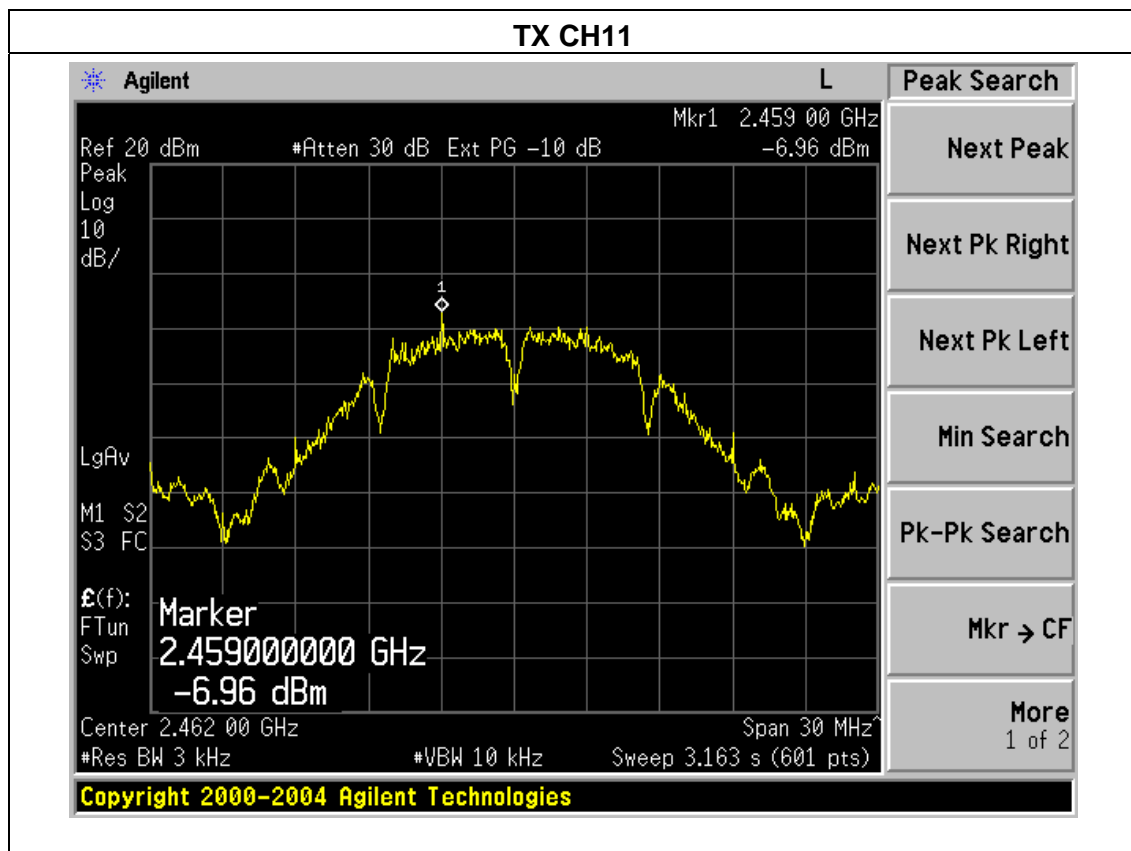
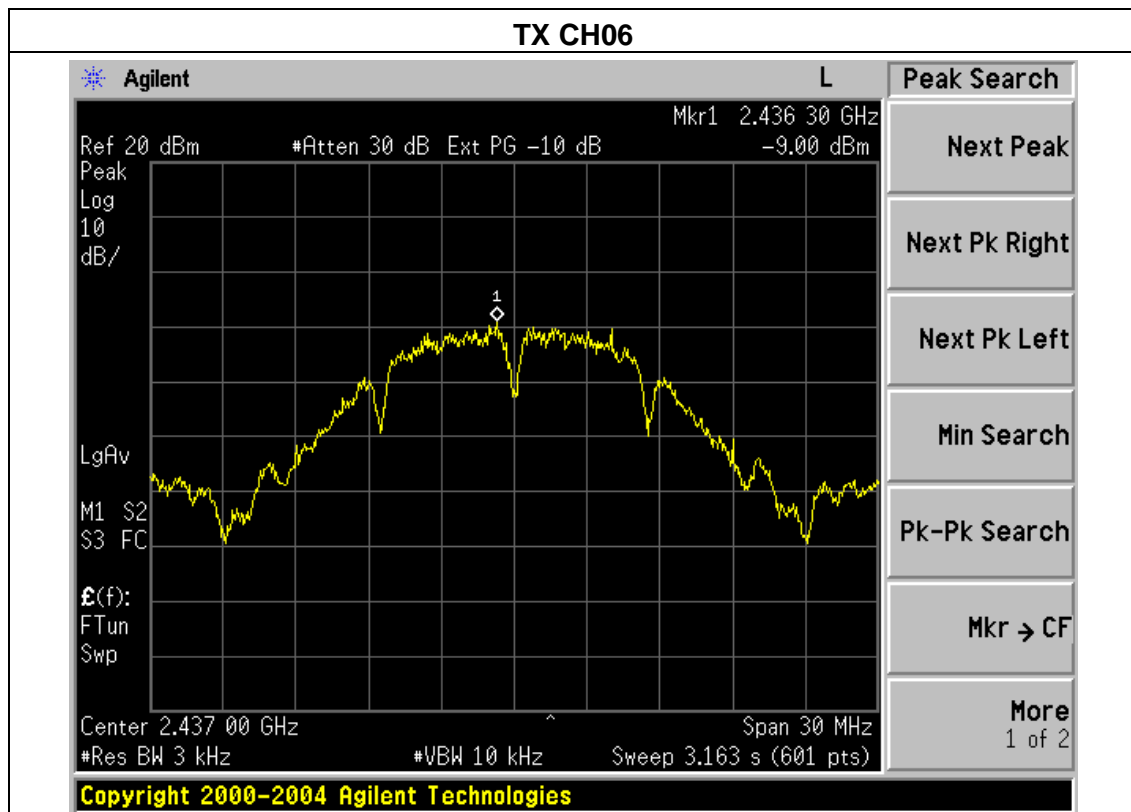
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

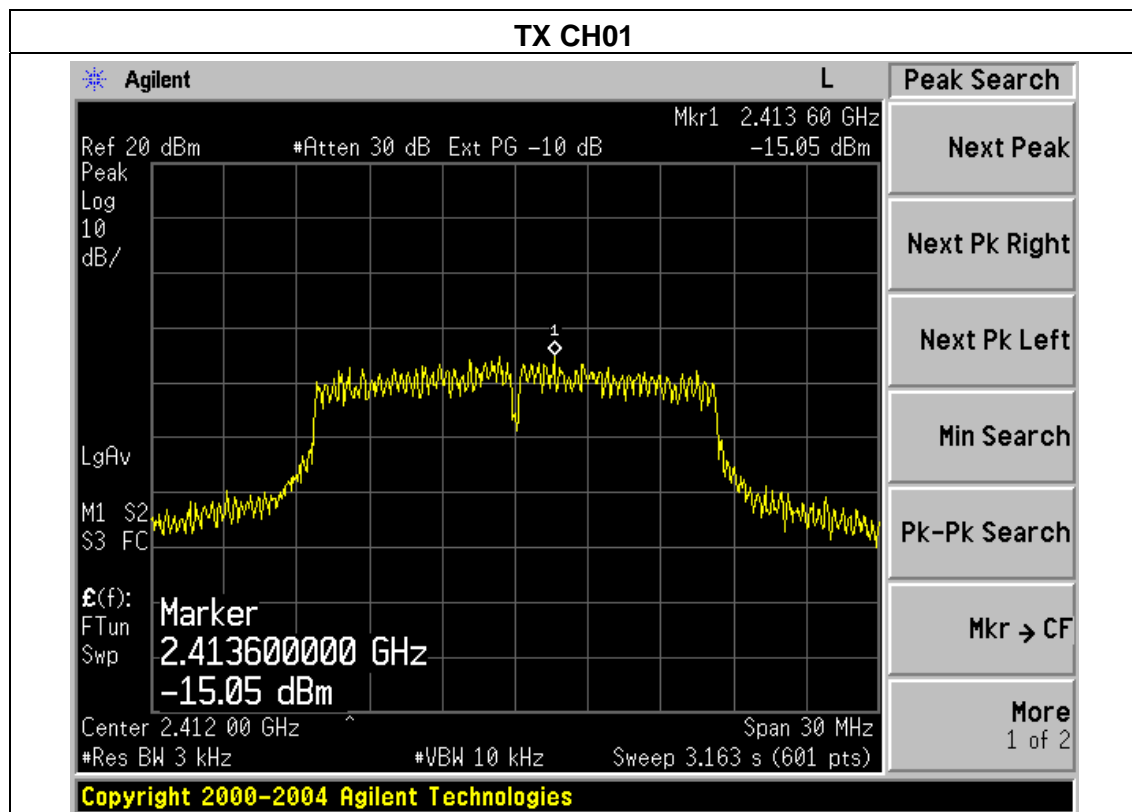
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.56	8	PASS
2437 MHz	-9.00	8	PASS
2462 MHz	-6.96	8	PASS

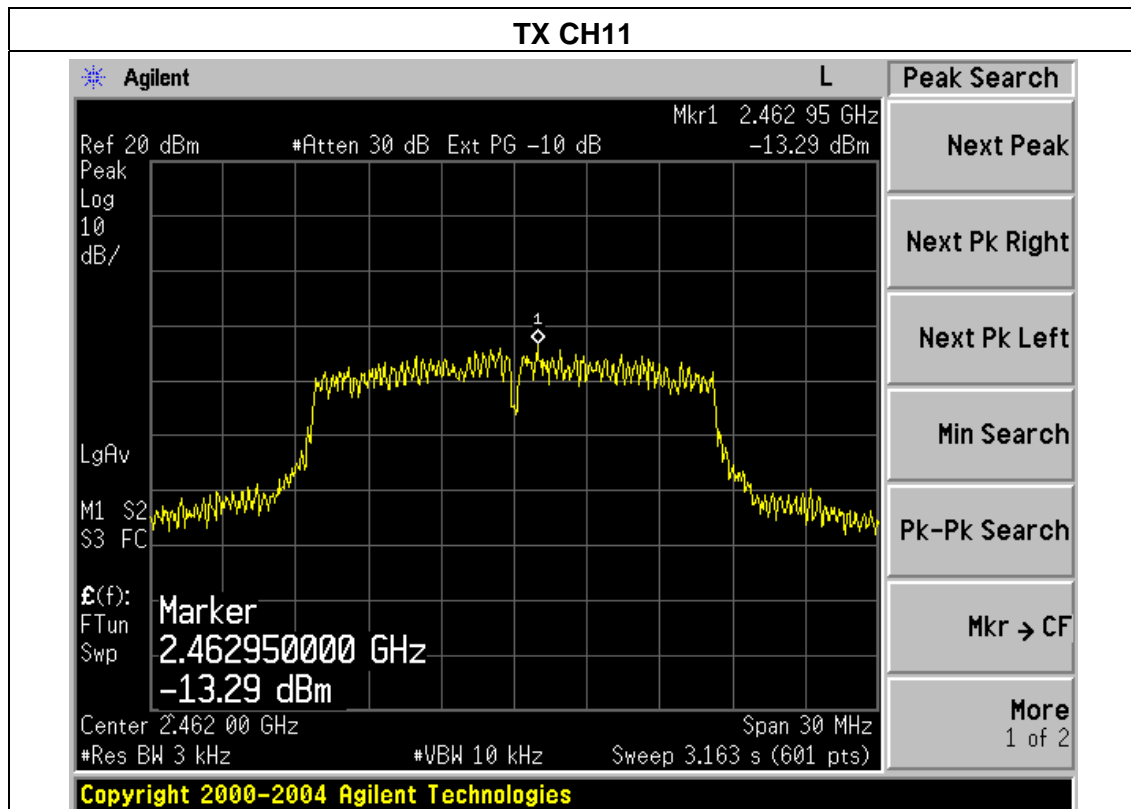
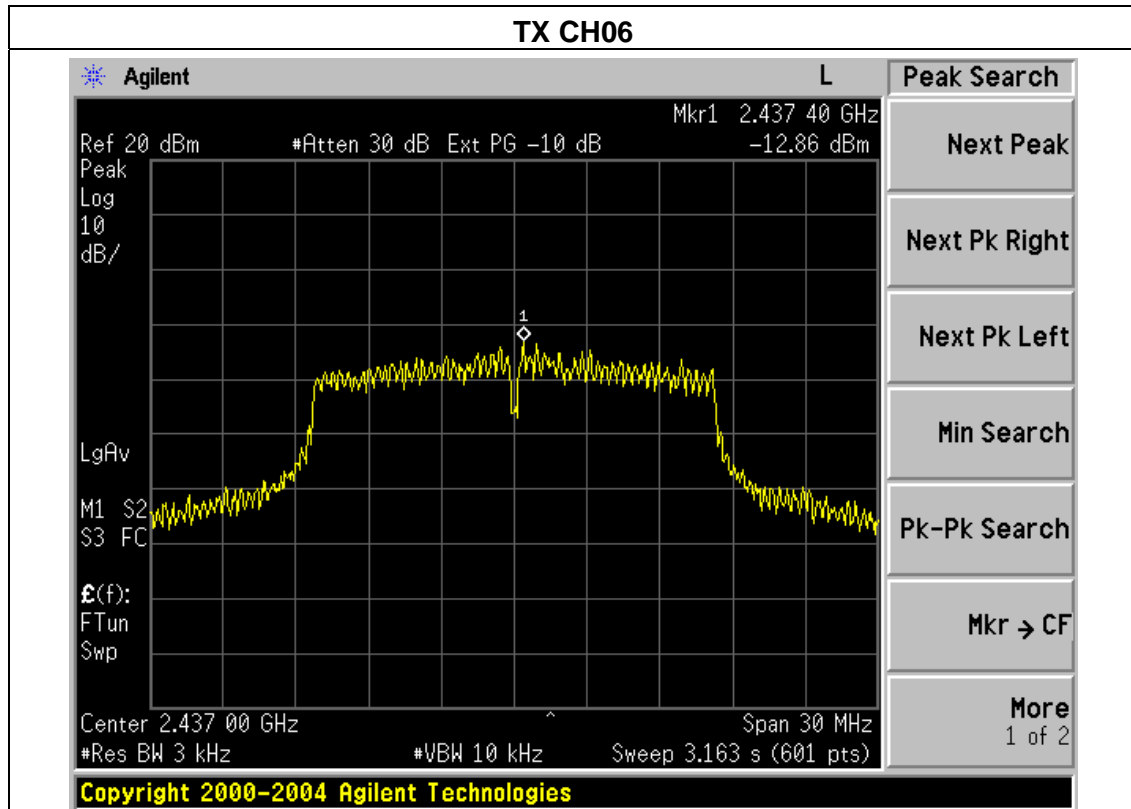




EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

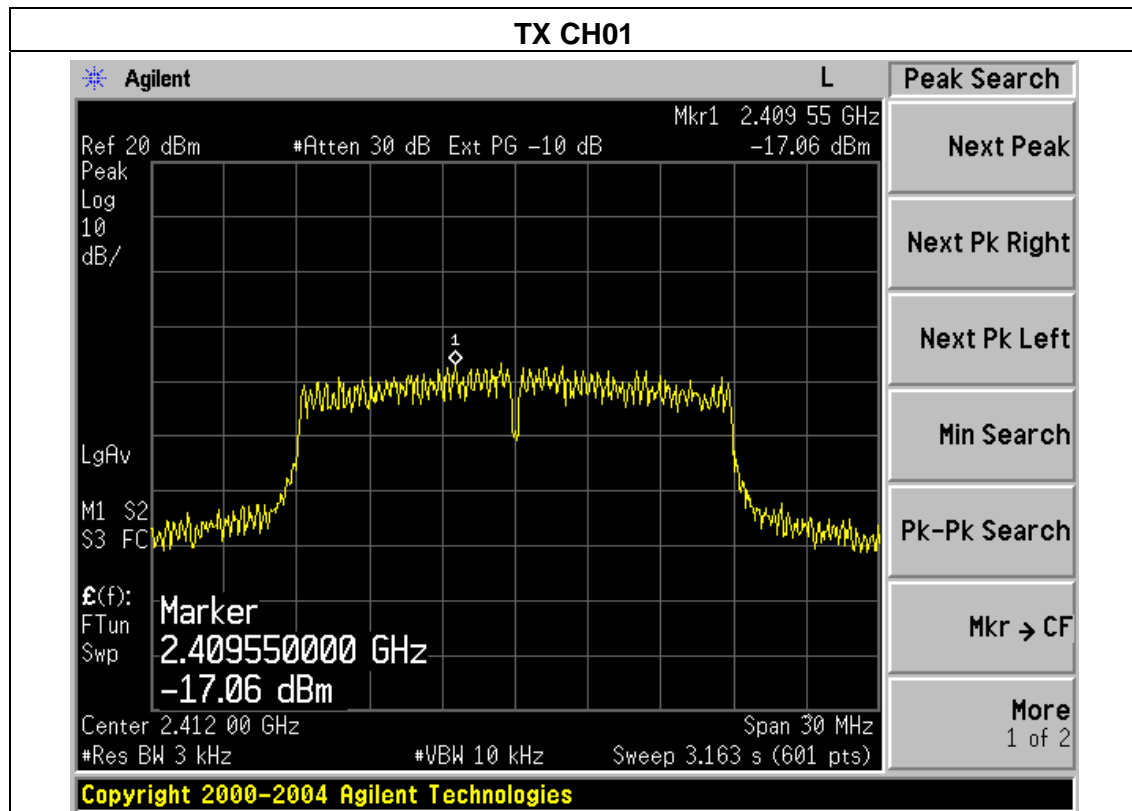
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.05	8	PASS
2437 MHz	-12.86	8	PASS
2462 MHz	-13.29	8	PASS

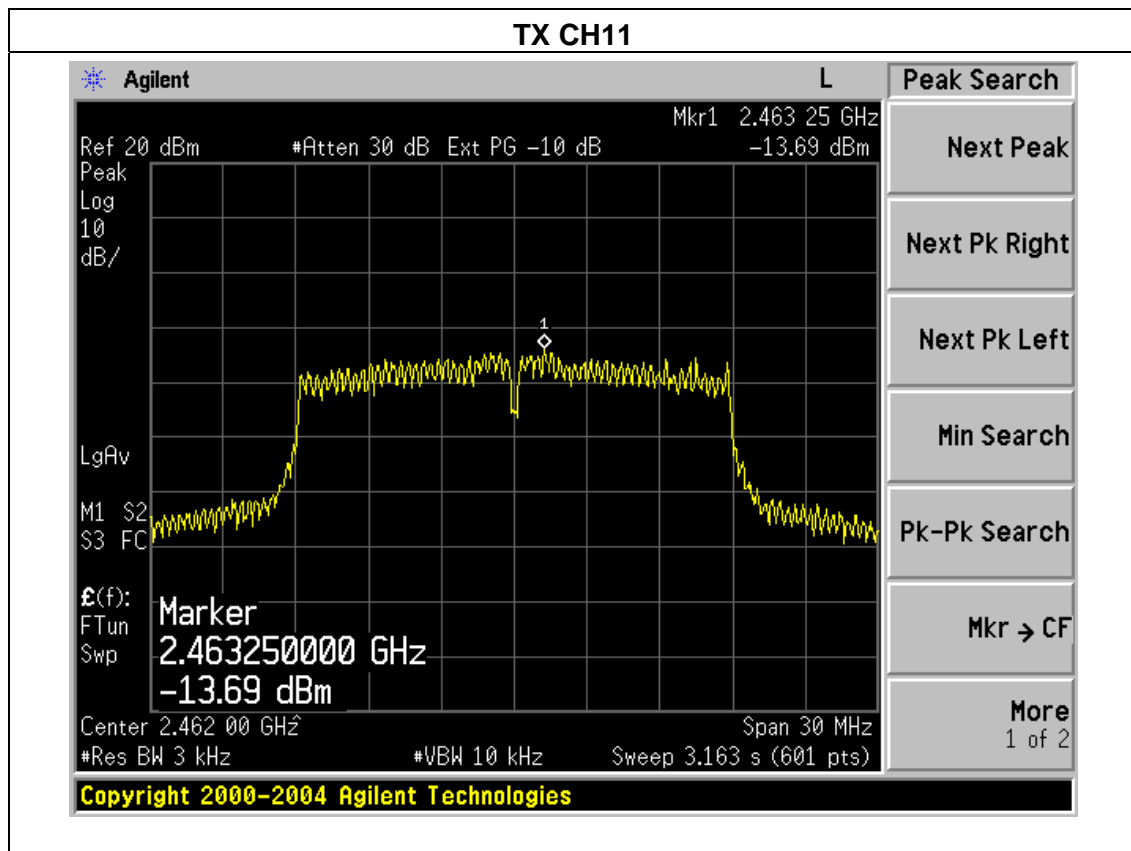
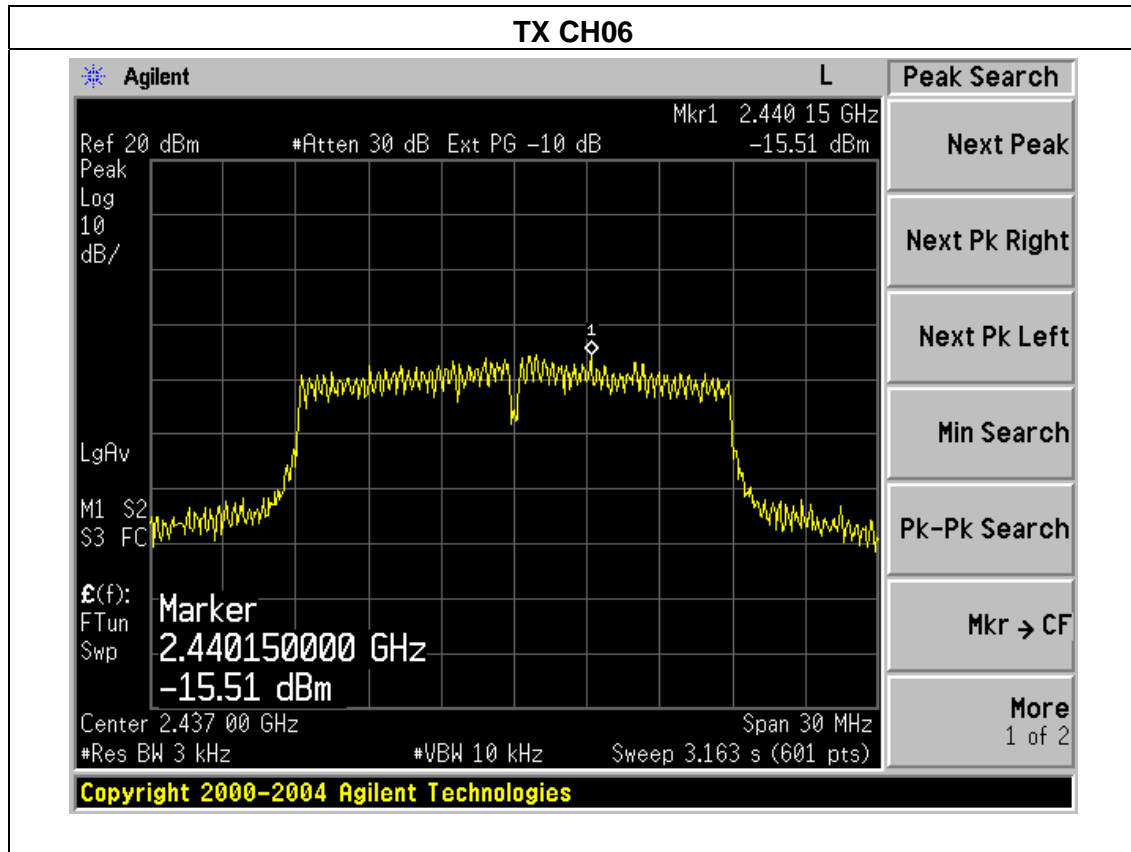




EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

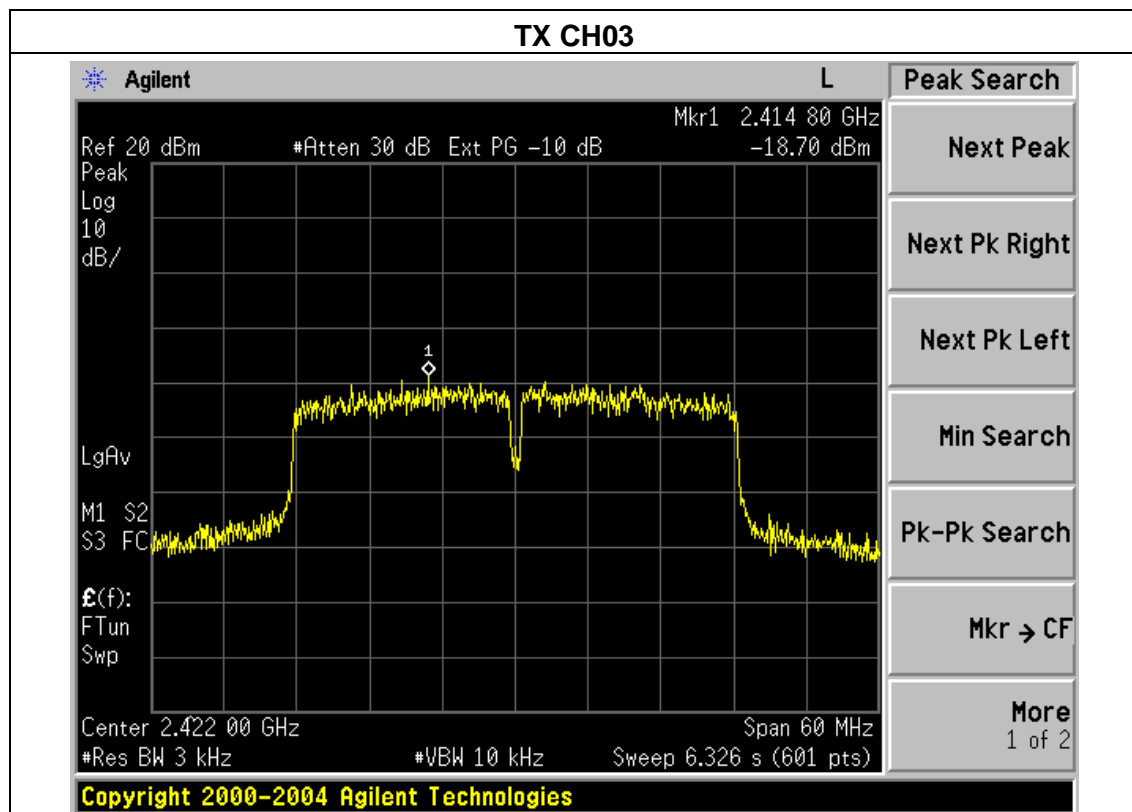
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-17.06	8	PASS
2437 MHz	-15.51	8	PASS
2462 MHz	-13.69	8	PASS



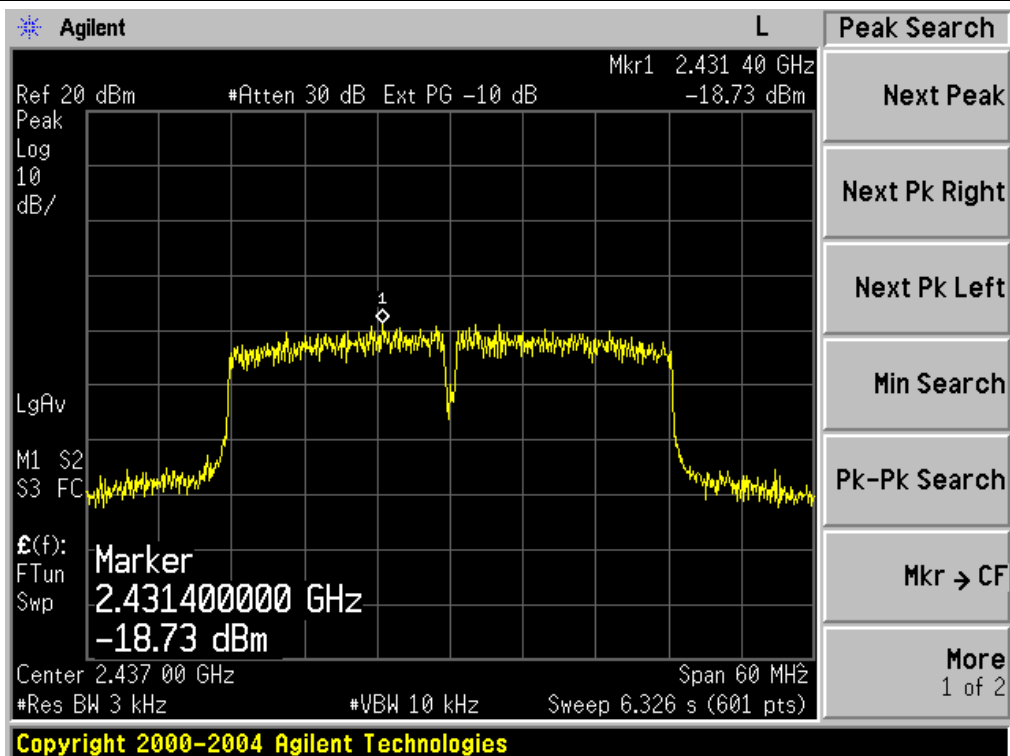


EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

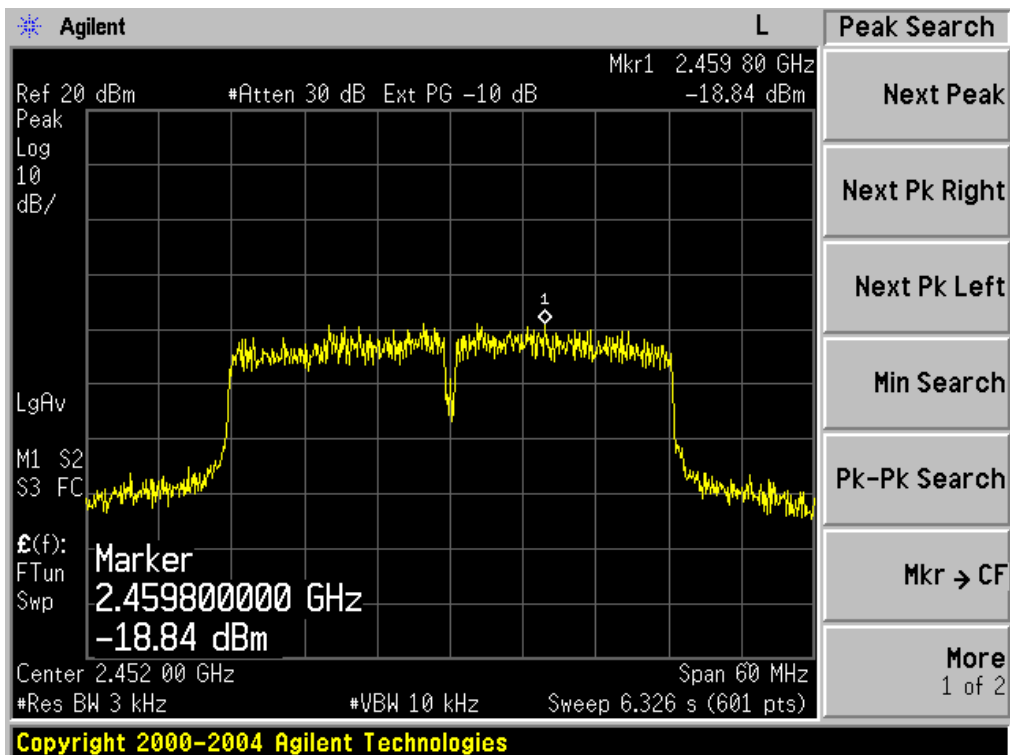
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-18.70	8	PASS
2437 MHz	-18.73	8	PASS
2452 MHz	-18.84	8	PASS



TX CH06



TX CH09



5. BANDWIDTH TEST

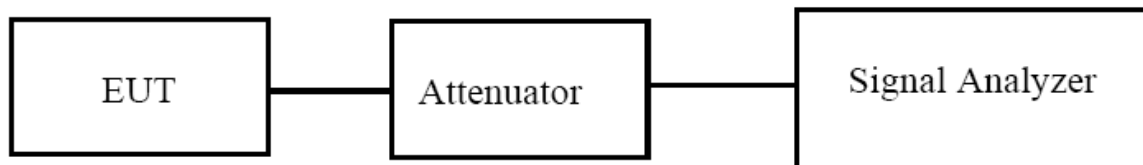
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



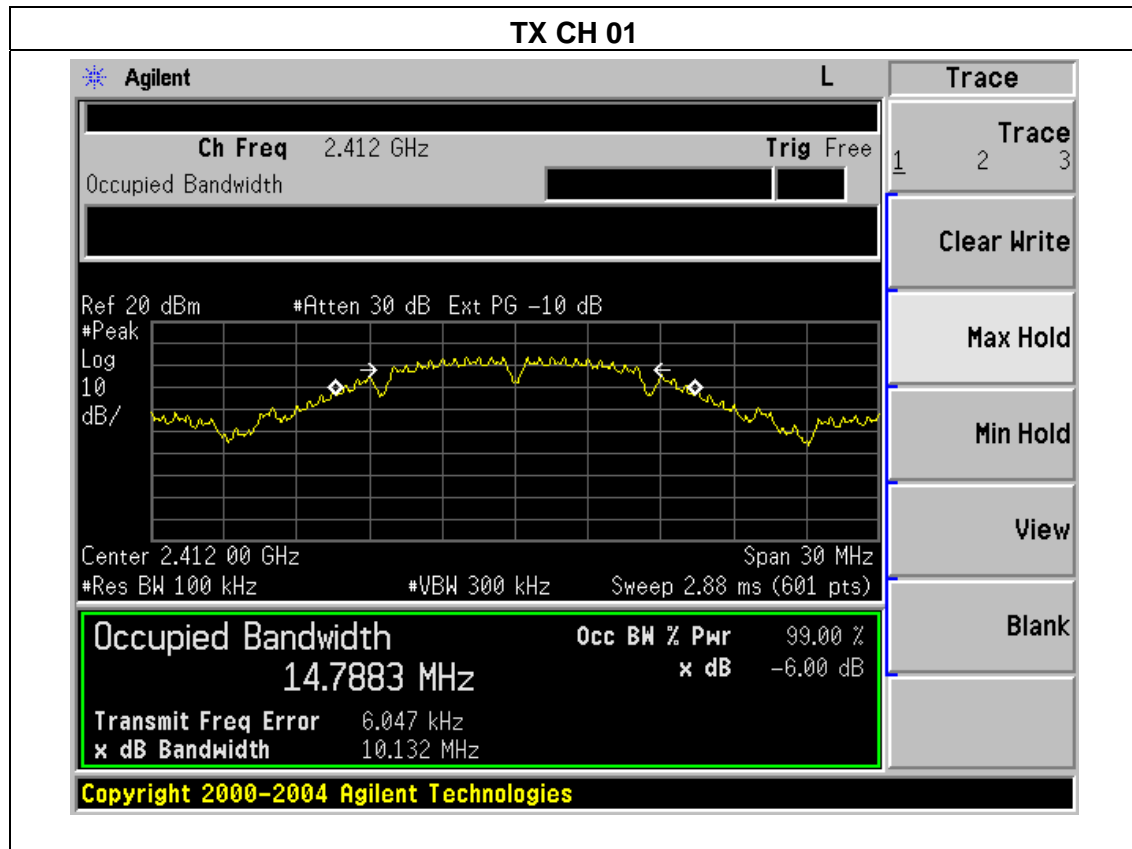
5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

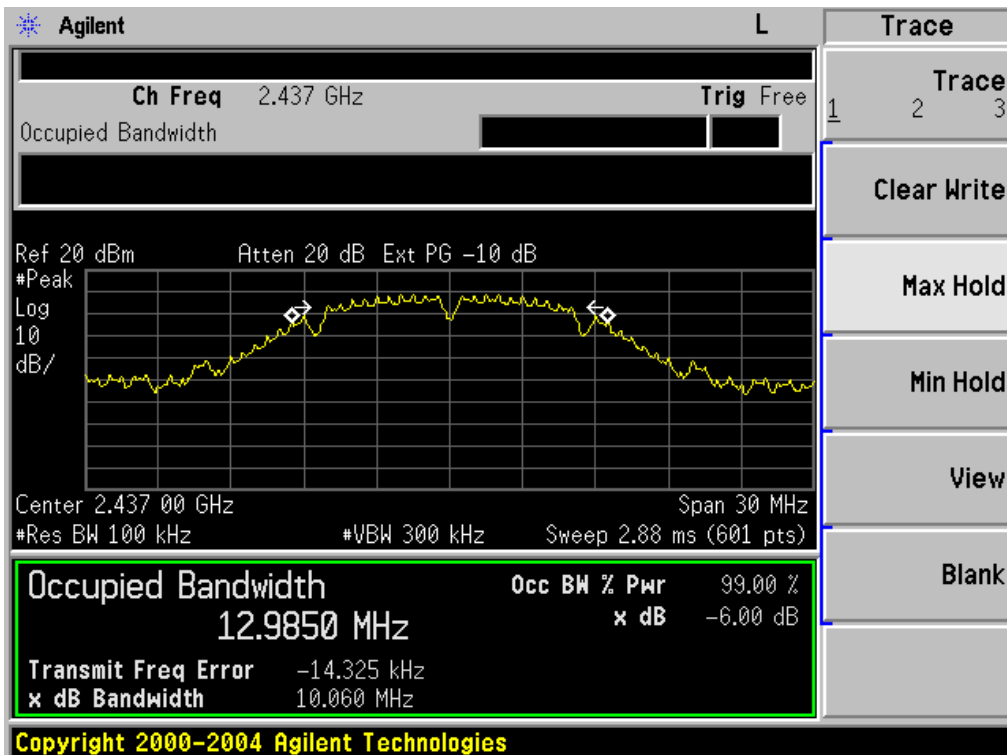
5.1.3 TEST RESULTS

EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

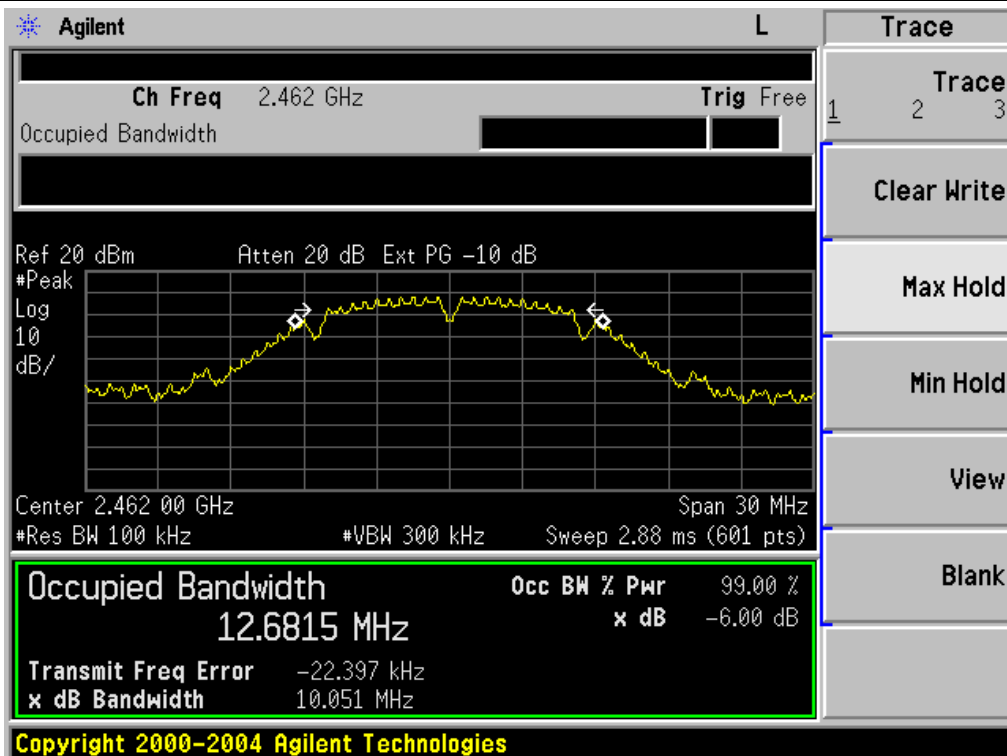
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.132	500	Pass
Middle	2437	10.060	500	Pass
High	2462	10.051	500	Pass



TX CH 06

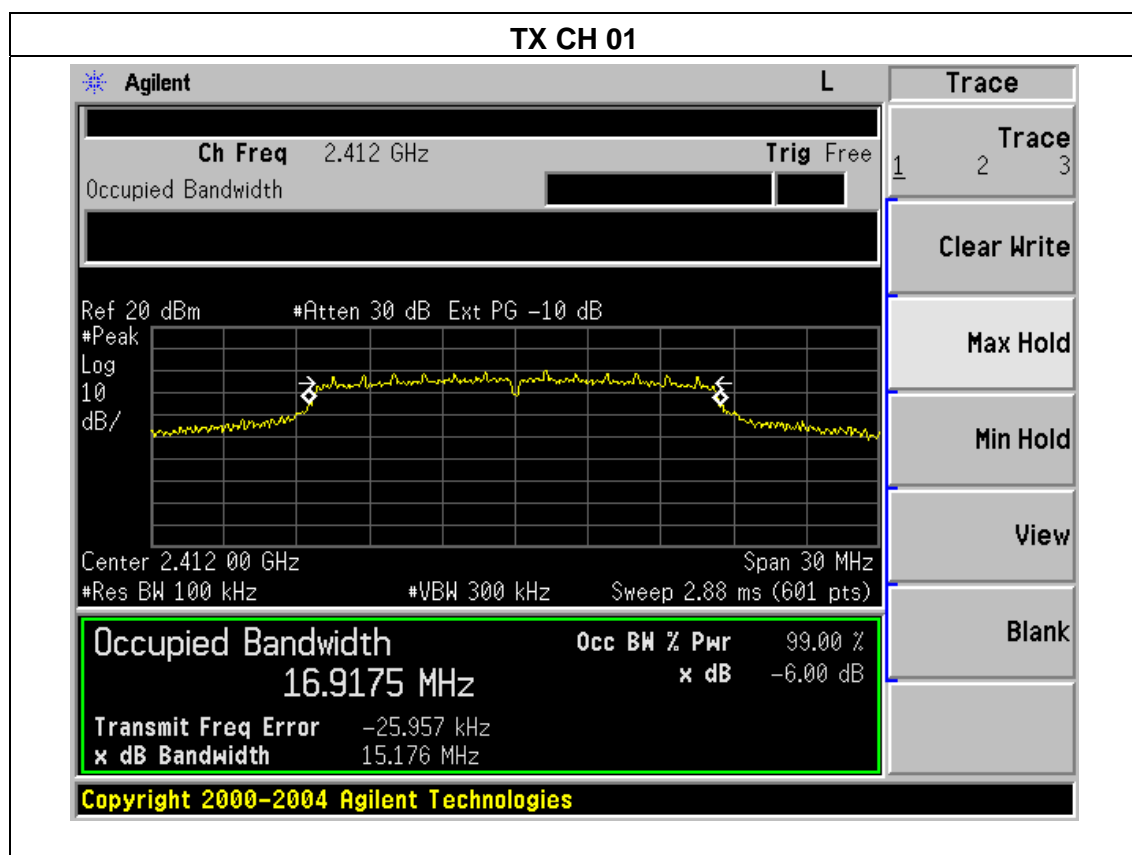


TX CH 11

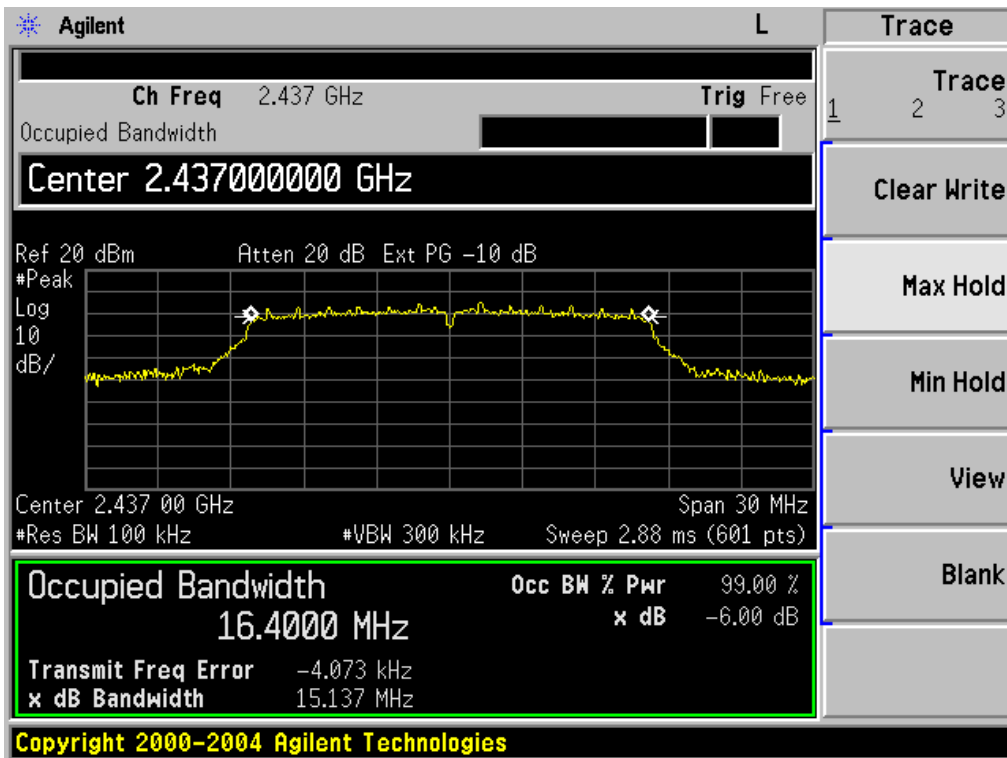


EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

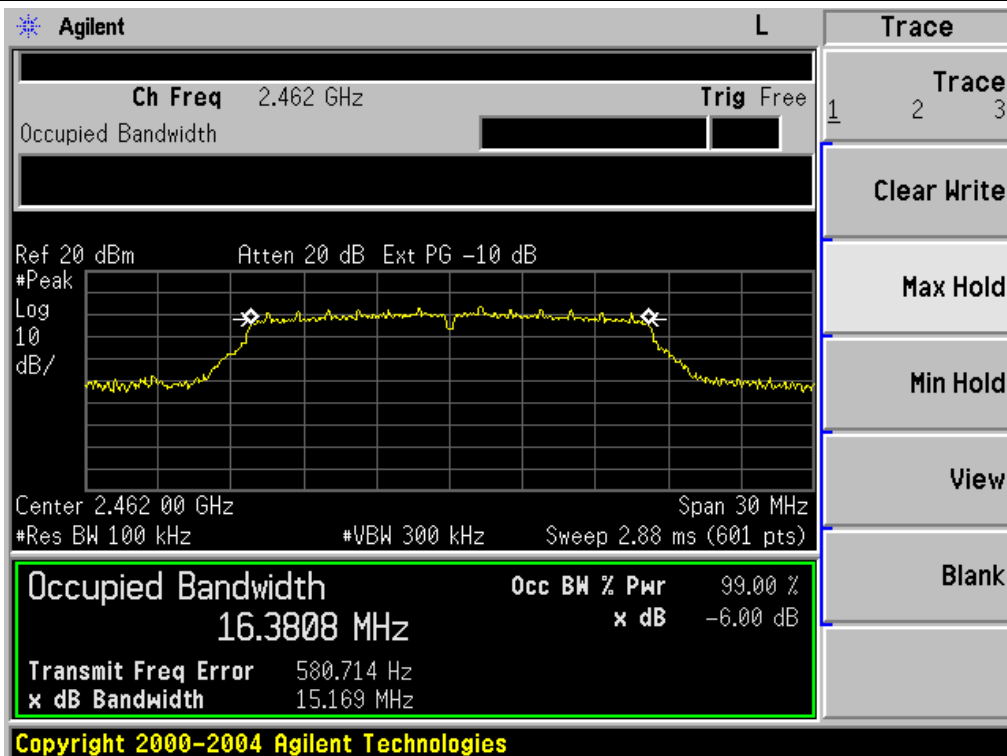
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.176	500	Pass
Middle	2437	15.137	500	Pass
High	2462	15.169	500	Pass



TX CH 06



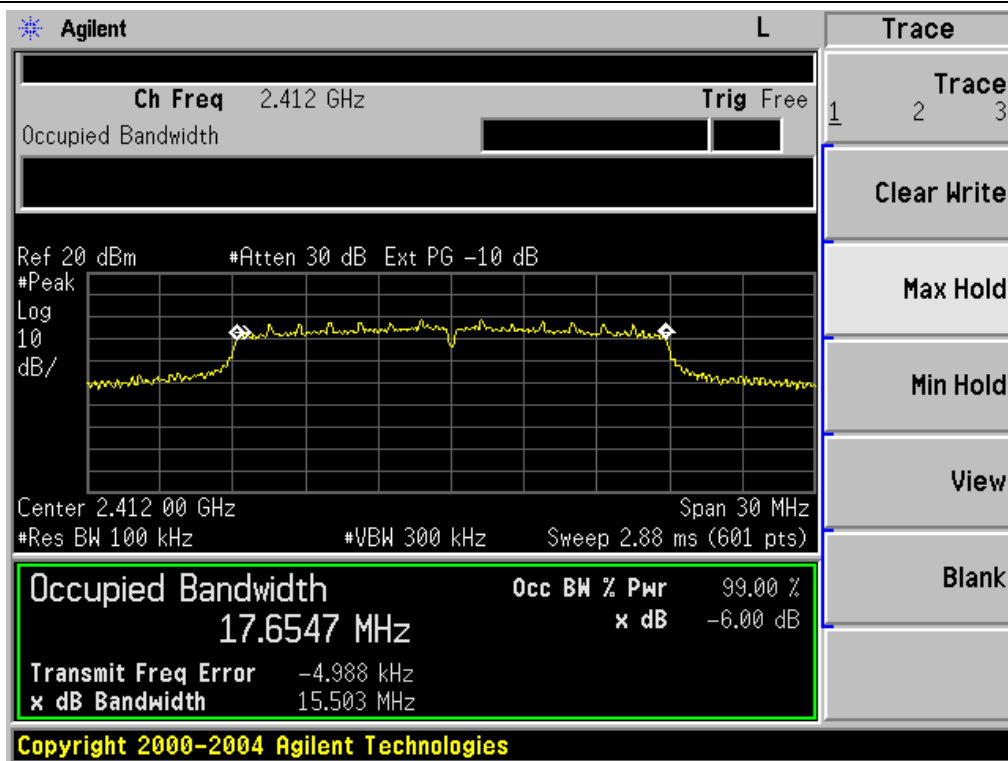
TX CH 11



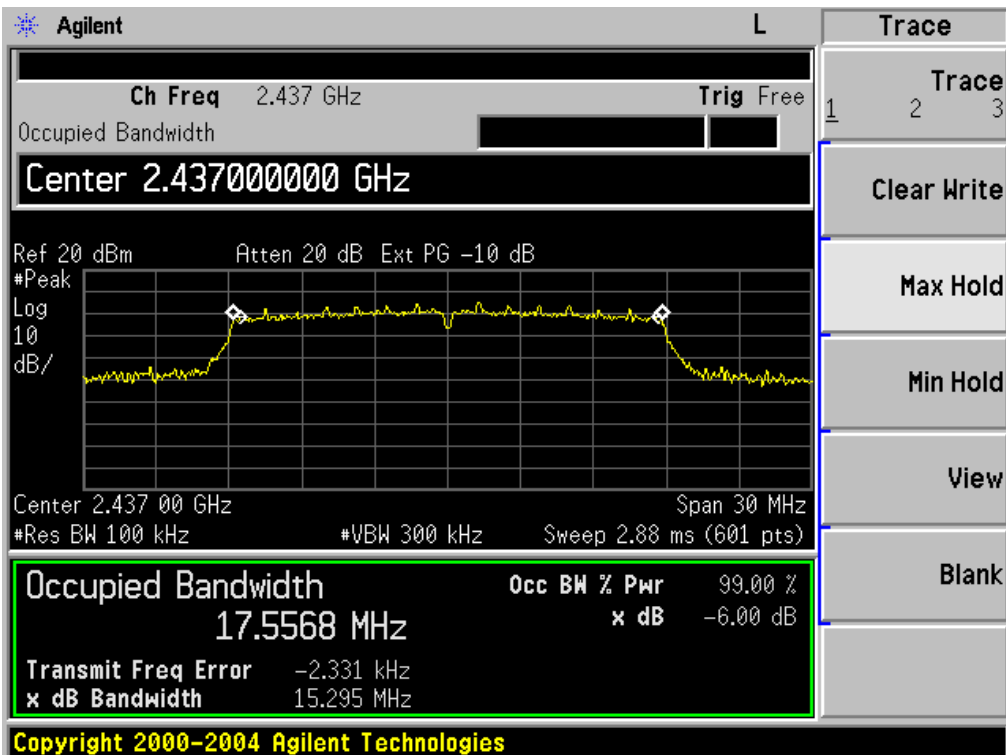
EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.503	500	Pass
Middle	2437	15.295	500	Pass
High	2462	15.406	500	Pass

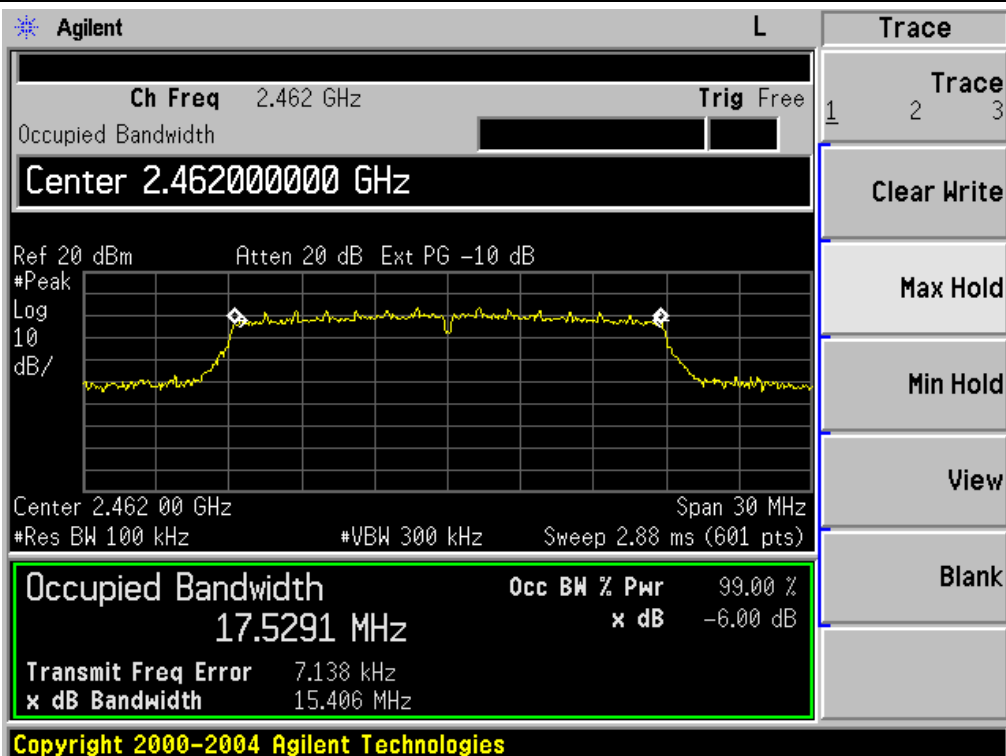
TX CH 01



TX CH 06



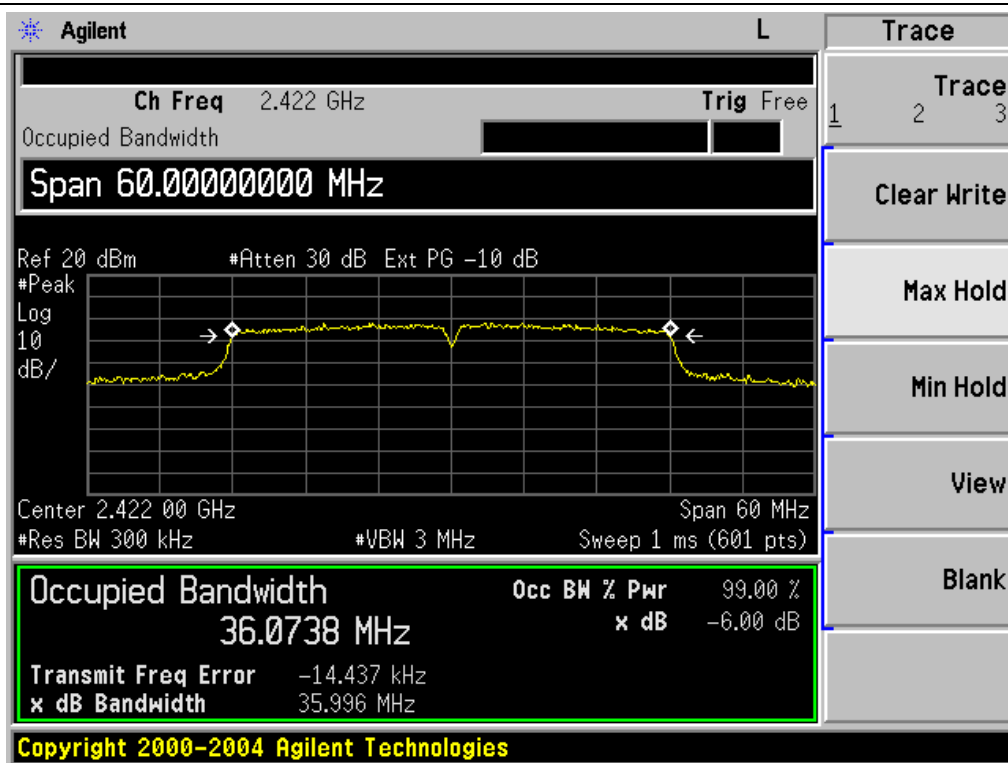
TX CH 11



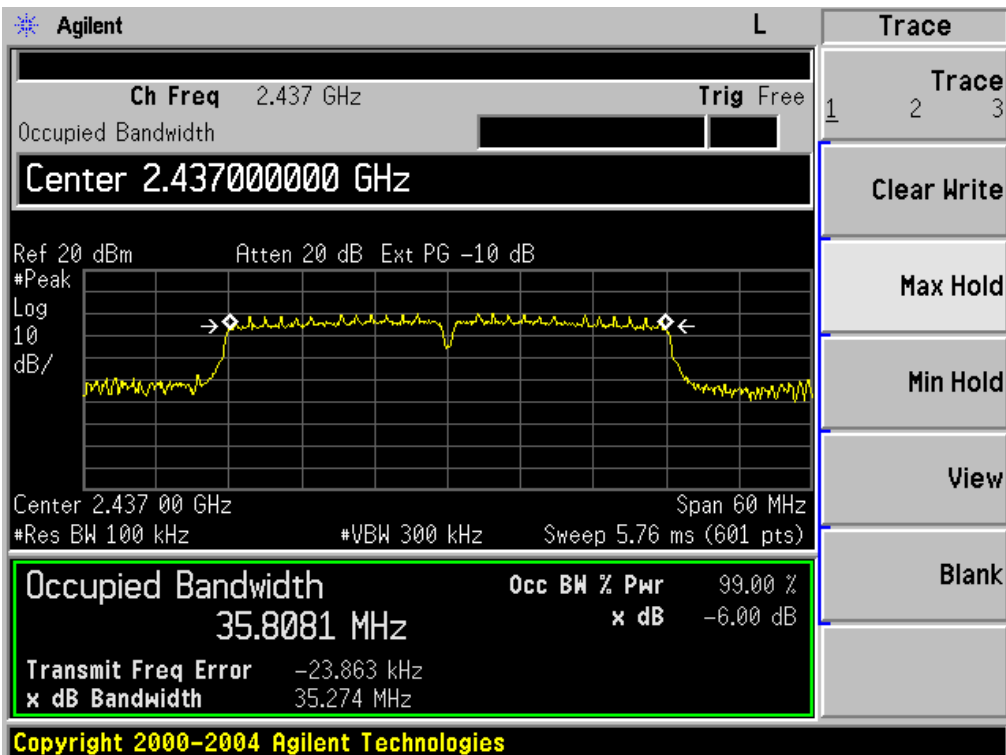
EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.996	500	Pass
Middle	2437	35.274	500	Pass
High	2452	35.354	500	Pass

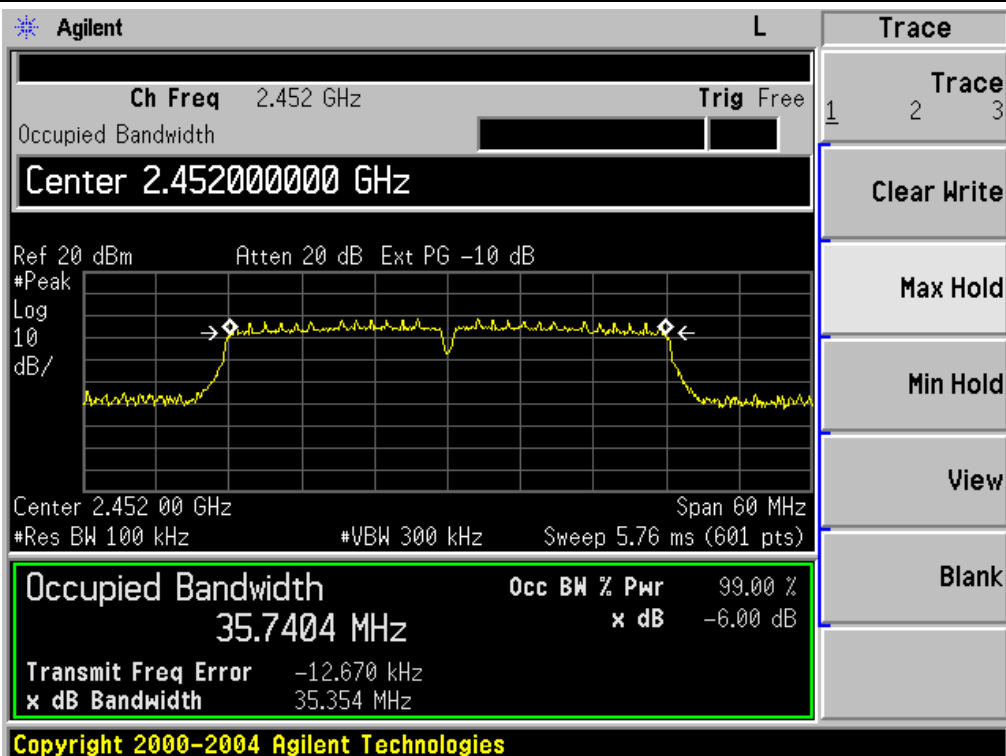
TX CH 03



TX CH 06



TX CH 09



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

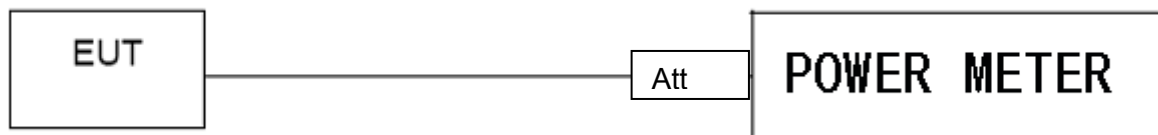
6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g/n20/n40 Mode		

TX 802.11b Mode				
Test Channel	Frequency	Maximum Conducted Output Power(PK)	Maximum Conducted Output Power(AV)	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)
CH01	2412	13.24	11.03	30
CH06	2437	13.65	10.83	30
CH11	2462	13.08	10.26	30
TX 802.11g Mode				
CH01	2412	12.67	9.54	30
CH06	2437	12.57	9.44	30
CH11	2462	12.86	9.73	30
TX 802.11n-HT20 Mode				
CH01	2412	10.59	8.36	30
CH06	2437	10.56	8.33	30
CH11	2462	10.54	8.31	30
TX 802.11n-HT40 Mode				
CH03	2422	9.83	7.41	30
CH06	2437	9.76	7.34	30
CH09	2452	9.81	7.39	30

7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

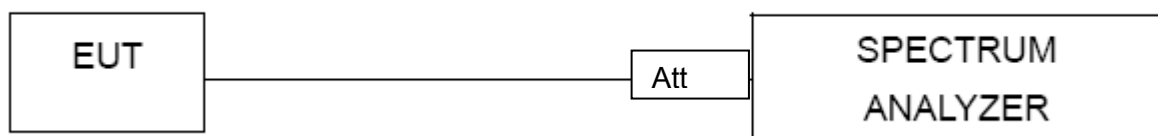
TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.4 TEST RESULTS

EUT :	RTEEK K3	Model Name :	K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

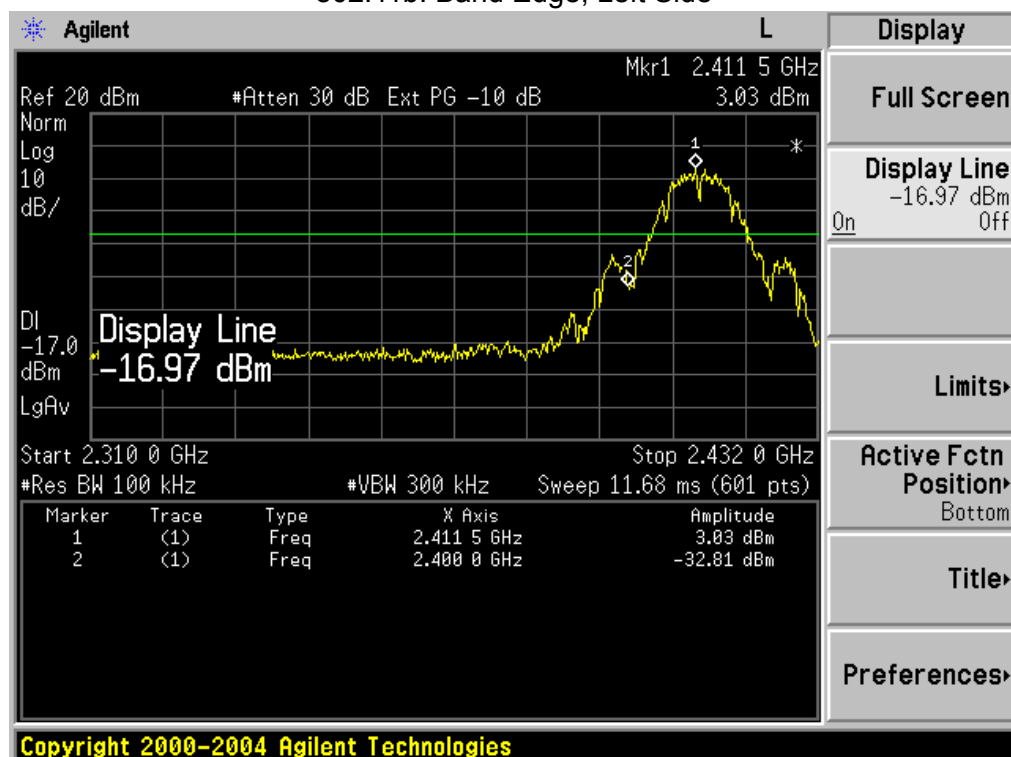
Frequency Band	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
802.11b			
2400	35.84	20	Pass
2483.5	51.30	20	Pass
802.11g			
2400	25.58	20	Pass
2483.5	39.35	20	Pass
802.11n20			
2400	25.00	20	Pass
2483.5	40.31	20	Pass
802.11n40			
2400	24.55	20	Pass
2483.5	31.45	20	Pass

Radiated band edge:

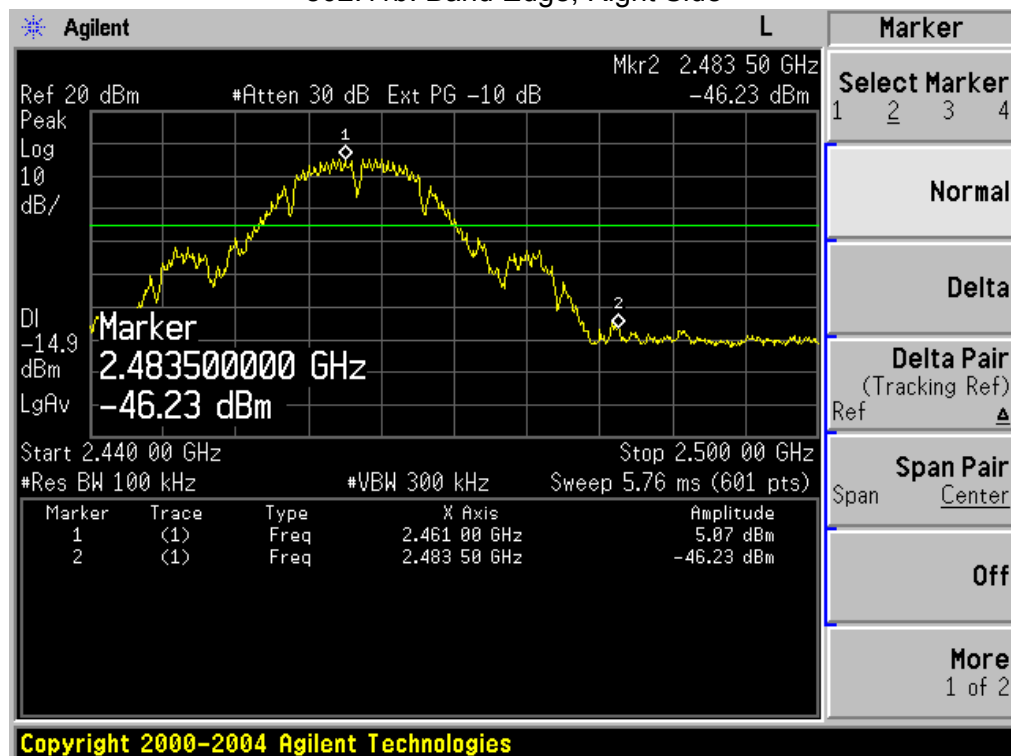
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b							
2390	58.89	-13.06	45.83	74	-28.17	peak	Vertical
2390	58.62	-13.06	45.56	74	-28.44	peak	Horizontal
2483.5	59.81	-12.78	47.03	74	-26.97	peak	Vertical
2483.5	59.83	-12.78	47.05	74	-26.95	peak	Horizontal
802.11g							
2390	58.47	-13.06	45.41	74	-28.59	peak	Vertical
2390	57.65	-13.06	44.59	74	-29.41	peak	Horizontal
2483.5	59.19	-12.78	46.41	74	-27.59	peak	Vertical
2483.5	59.58	-12.78	46.8	74	-27.20	peak	Horizontal
802.11n20							
2390	61.31	-13.06	48.25	74	-25.75	peak	Vertical
2390	61.09	-13.06	48.03	74	-25.97	peak	Horizontal
2483.5	61.23	-12.78	48.45	74	-25.55	peak	Vertical
2483.5	61.35	-12.78	48.57	74	-25.43	peak	Horizontal
802.11n40							
2390	62.07	-13.06	49.01	74	-24.99	peak	Vertical
2390	63.22	-13.06	50.16	74	-23.84	peak	Horizontal
2483.5	61.72	-12.78	48.94	74	-25.06	peak	Vertical
2483.5	61.55	-12.78	48.77	74	-25.23	peak	Horizontal

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

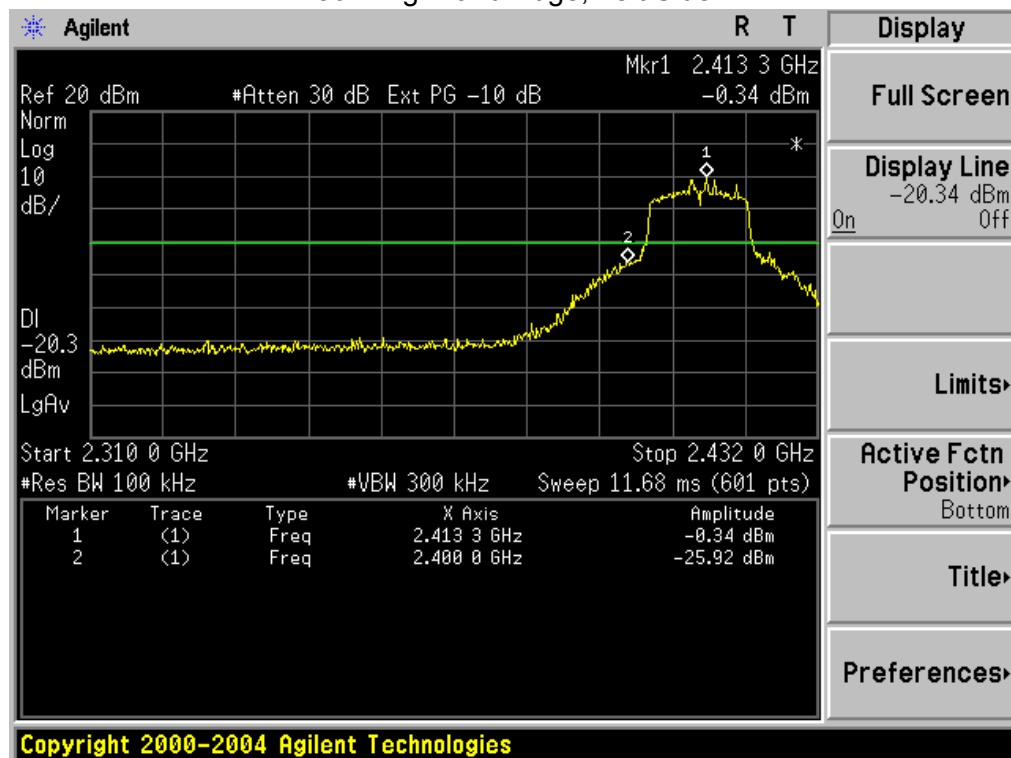
802.11b: Band Edge, Left Side



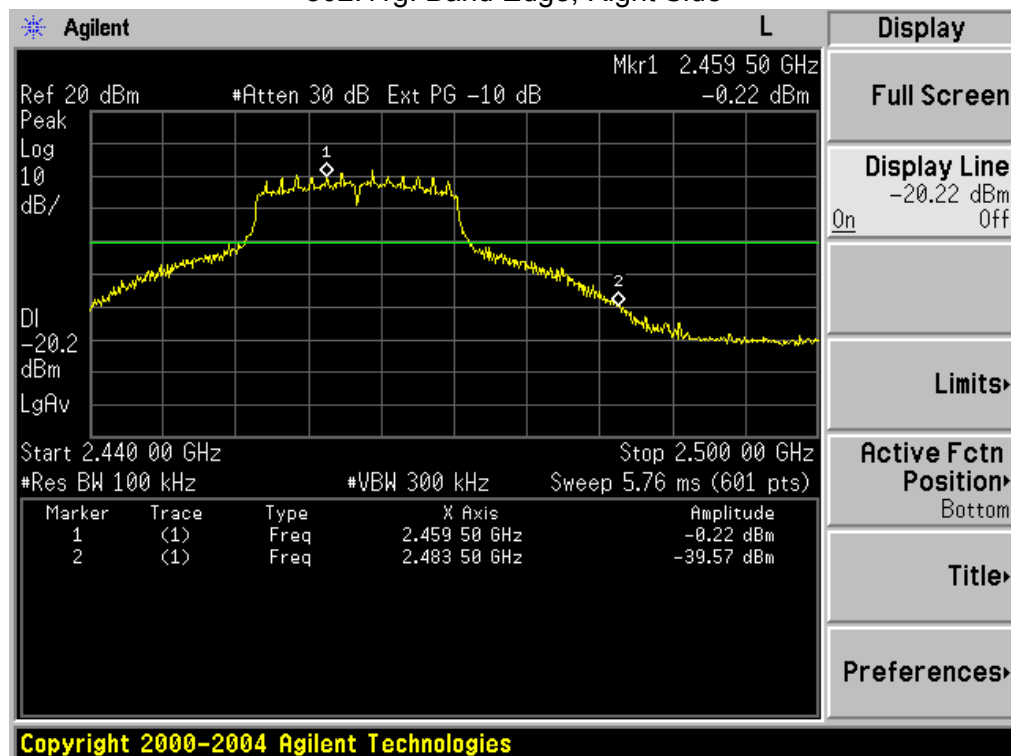
802.11b: Band Edge, Right Side



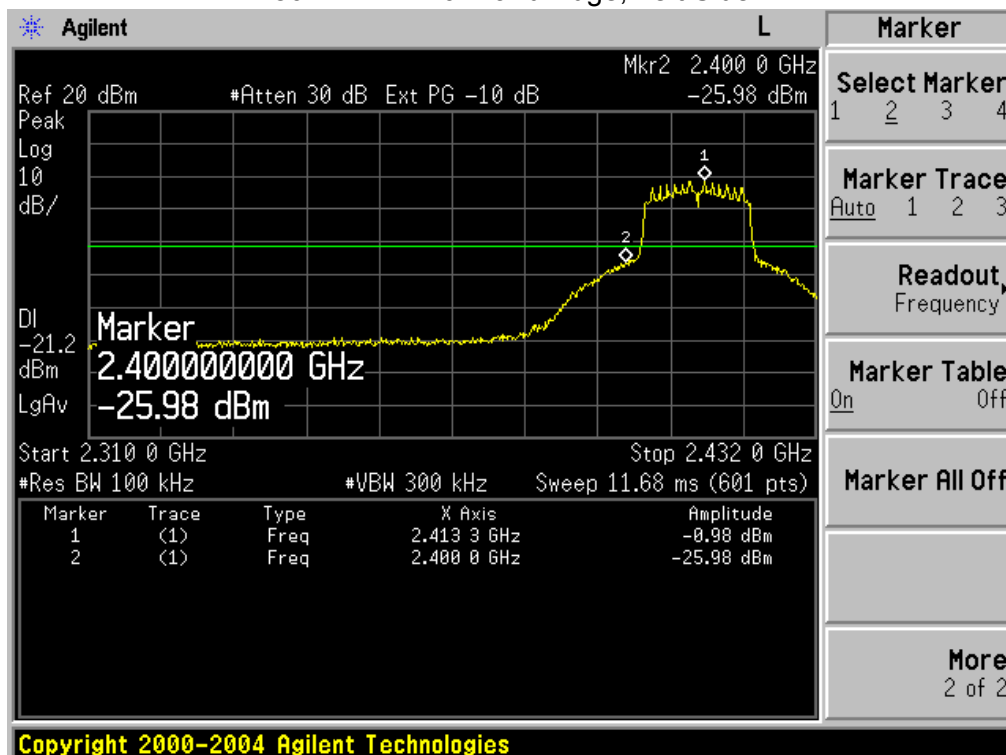
802.11g: Band Edge, Left Side



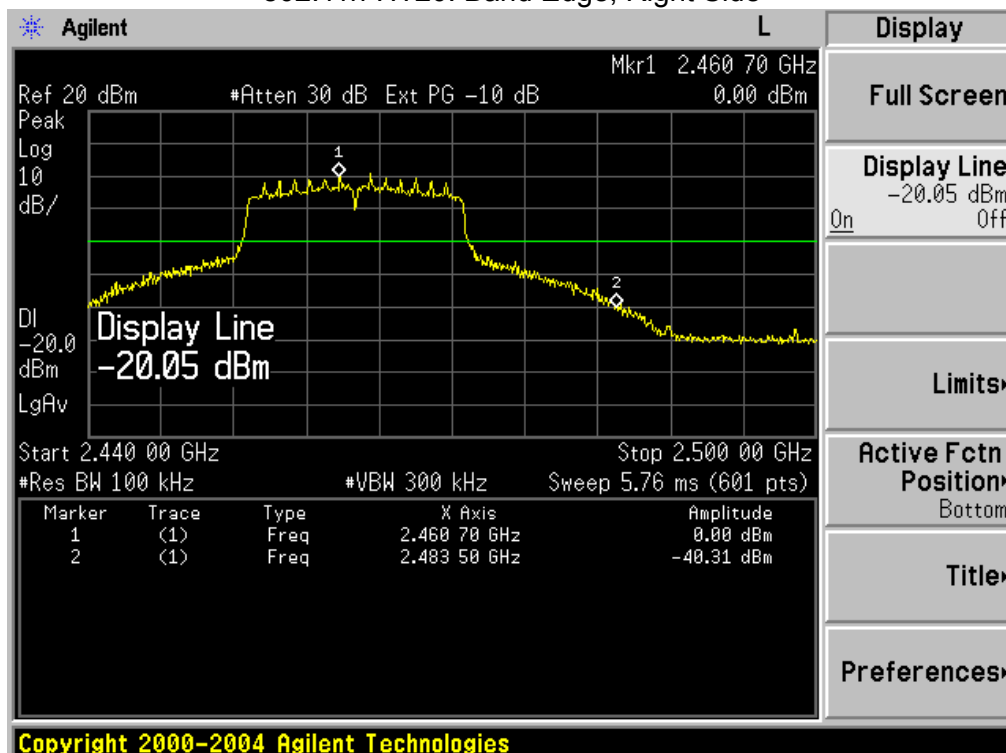
802.11g: Band Edge, Right Side



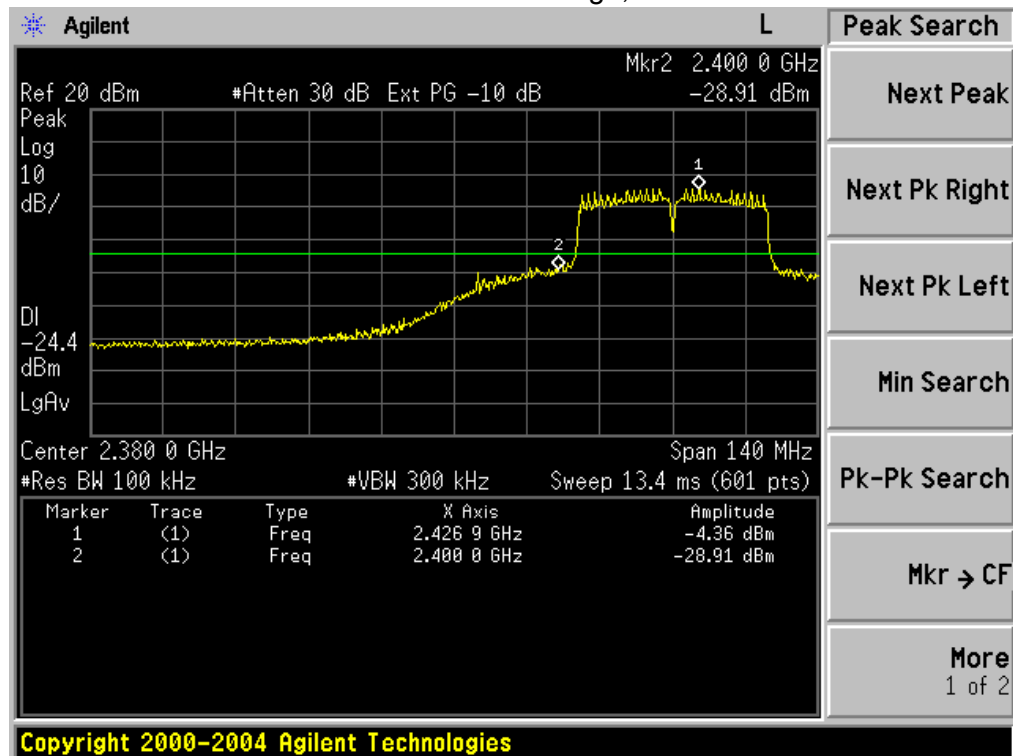
802.11n-HT20: Band Edge, Left Side



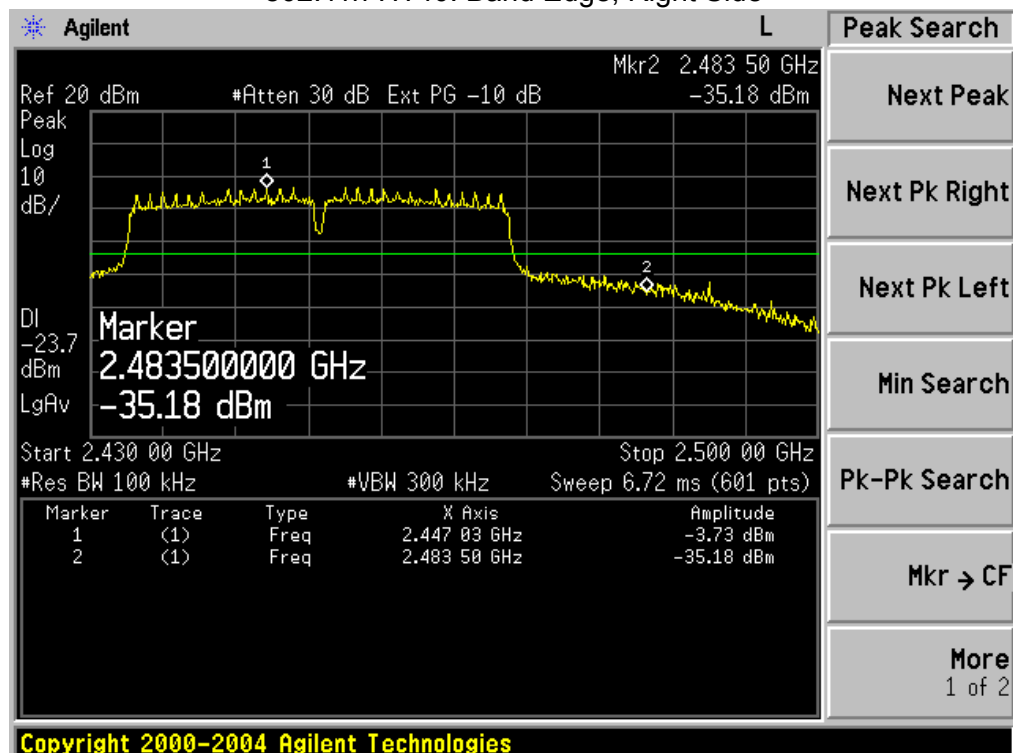
802.11n-HT20: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

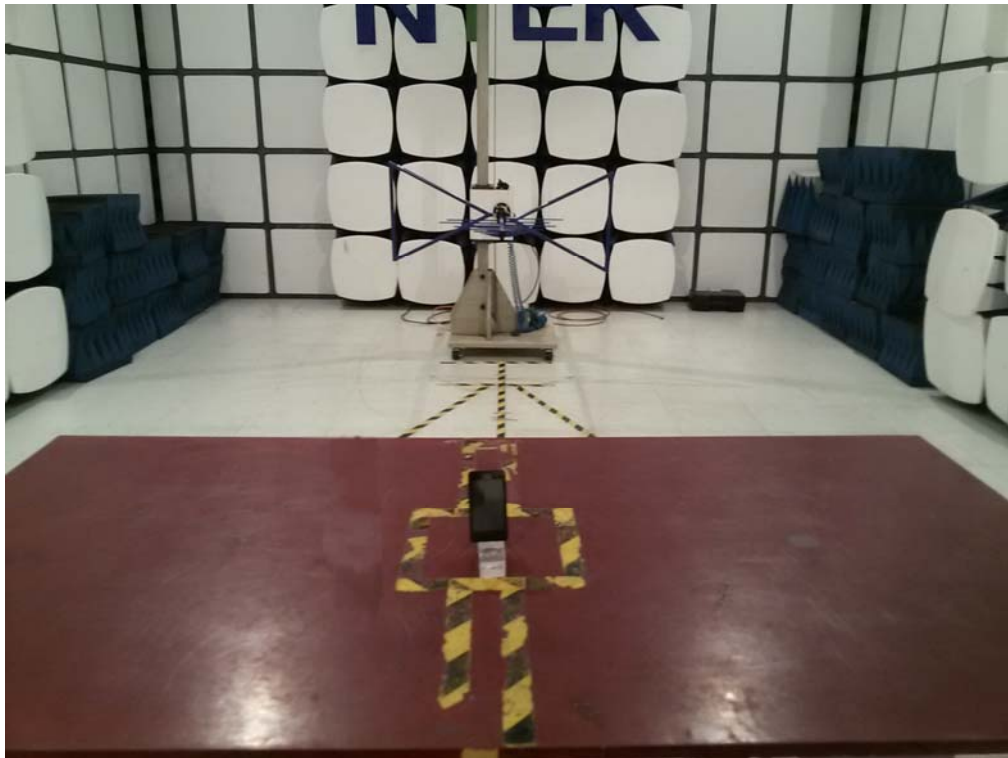
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

9. EUT TEST PHOTO

Radiated Measurement Photos



CONDUCTED EMISSION Photos