FCC TEST REPORT (15.247)

REPORT NO.:	RF111005C06
MODEL NO.:	ENH202, ENH202EXT
FCC ID:	U2M-ENH202
RECEIVED:	Oct. 5, 2011
TESTED:	Oct. 14 ~ 19, 2011
ISSUED:	Oct. 25, 2011

APPLICANT:	Senao Networks, Inc.
ADDRESS:	3F, No. 529, Chung Cheng Rd., Hsintien, Taipei, Taiwan, R.O.C.

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB LOCATION :	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City 244, Taiwan(R.O.C.)

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF111005C06	Original release	Oct. 25, 2011

1. CERTIFICATION

PRODUCT: Wireless 802.11bgn Access Point
BRAND NAME: EnGenius
MODEL NO.: ENH202, ENH202EXT
APPLICANT: Senao Networks, Inc.
TEST ITEM: ENGINEERING SAMPLE
TESTED: Oct. 14 ~ 19, 2011
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.4-2003
ANSI C63.10-2009

The above equipment (model: ENH202) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Jessica Cheng , DATE: Oct. 25. 2011
(Jessica Cheng / Specialist)

APPROVED BY : Ken Liu , DATE: Oct. 25. 2011
(Ken Liu / Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -13.44dB at 12.105MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.5dB at 96.17MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is IPEX not a standard connector.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.41 dB
Radiated emissions	30MHz ~ 1GHz	3.87 dB
	Above 1GHz	3.36 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless 802.11bgn Access Point
MODEL NO.	ENH202, ENH202EXT
FCC ID	U2M-ENH202
NOMINAL VOLTAGE	24Vdc
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps
OPERATING FREQUENCY	2412.0 ~ 2462.0MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
OUTPUT POWER	157.1mW
ANTENNA TYPE	Patch Antenna with 10dBi gain
ANTENNA CONNECTER	IPEX connector
DATA CABLE	NA
I/O PORTS	Refer to User's manual
ACCESSORY DEVICES	Refer to note as below

NOTE:

1. The EUT is a Wireless 802.11bgn Access Point with IEEE 802.11bgn function.

2. The EUT has several models, which are identical to each other except for marketing differences only, as the following:

Brand	Model No.	Differentiation
EnGenius	ENH202	marketing differentiation
	ENH202EXT	

During the test, model no.: **ENH202** was selected as the representative one for the test and only its test data was recorded in this report.

3. The EUT consumes power from the following POE:

POE	
BRAND	EnGenius
MODEL	EPE-24R
POE's Adapter	
BRAND	powertron
MODEL	PA1024-3HU
SPEC.	AC I/P: 100-240V, 50-60Hz, 0.6A DC O/P: 24V, 1.0A AC 2-pin, Non-shielded DC cable (1.5m)

4. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11b	2TX
802.11g	2TX
802.11n (20MHz)	2TX
802.11n (40MHz)	2TX

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

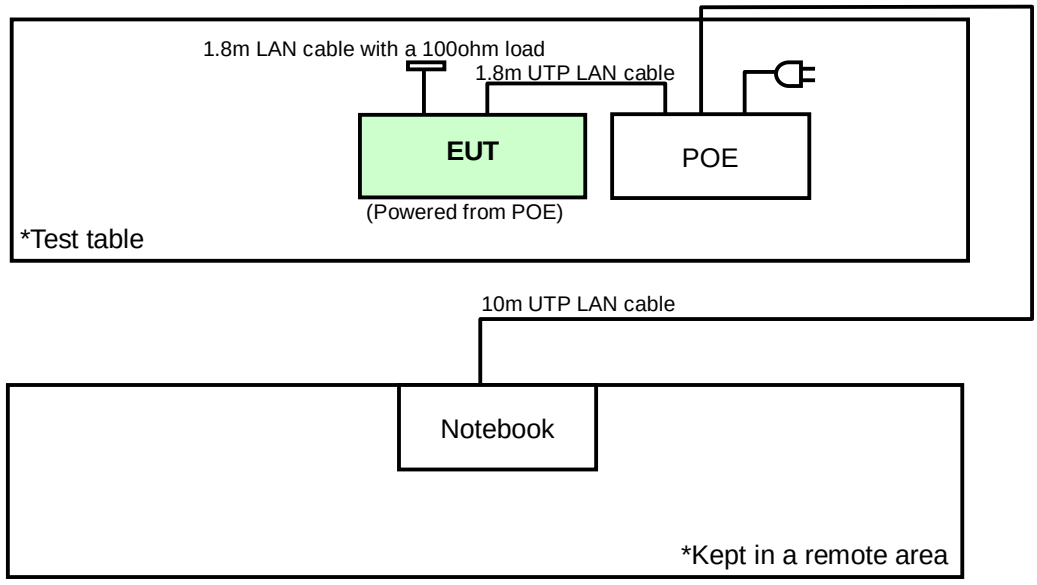
11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE≥1G	RE<1G	APCM	
-	√	√	√	√	-

Where **PLC:** Power Line Conducted Emission **RE≥1G:** Radiated Emission above 1GHz
RE<1G: Radiated Emission below 1GHz **APCM:** Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11n (20MHz)	1 to 11	11	OFDM	BPSK	13

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X,Y,Z Axis and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Z
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Z
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	13	Z
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	27	Z

RADIATED EMISSION TEST (BELOW 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X,Y,Z Axis and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11n (20MHz)	1 to 11	11	OFDM	BPSK	13	Z

BANDEDGE MEASUREMENT:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X,Y,Z Axis and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Z
802.11g	1 to 11	1, 11	OFDM	BPSK	6	Z
802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	13	Z
802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	27	Z

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	13
802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	27

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	25deg. C, 73% RH	120Vac, 60Hz	Nick Chen
RE^{3}1G	24deg. C, 72% RH	120Vac, 60Hz	Nick Chen
RE <1G	24deg. C, 69% RH	120Vac, 60Hz	Nick Chen
APCM	21deg. C, 78% RH	120Vac, 60Hz	Chad Lee

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)
ANSI C63.4-2003
ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	19227741184	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10m UTP LAN cable

NOTE: (1) All power cords of the above support units are non-shielded (1.8m).

(2) One LAN cable (1.8m) was connected to EUT to form an open loop cable, which was terminated with a 100ohm resistor load.

(3) One LAN cable (1.8m) was connected from EUT to POE.

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100276	Dec. 31, 2010	Dec. 30, 2011
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100219	Nov. 24, 2010	Nov. 23, 2011
LISN With Adapter (for EUT)	AD10	C10Ada-001	Nov. 24, 2010	Nov. 23, 2011
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100218	Nov. 24, 2010	Nov. 23, 2011
Software	ADT_Cond_V7.3.7	NA	NA	NA
Software	ADT_ISN_V7.3.7	NA	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Feb. 22, 2011	Feb. 21, 2012
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 26, 2011	Feb. 25, 2012

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Shielded Room No. 10.
3. The VCCI Site Registration No. C-1852.

4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

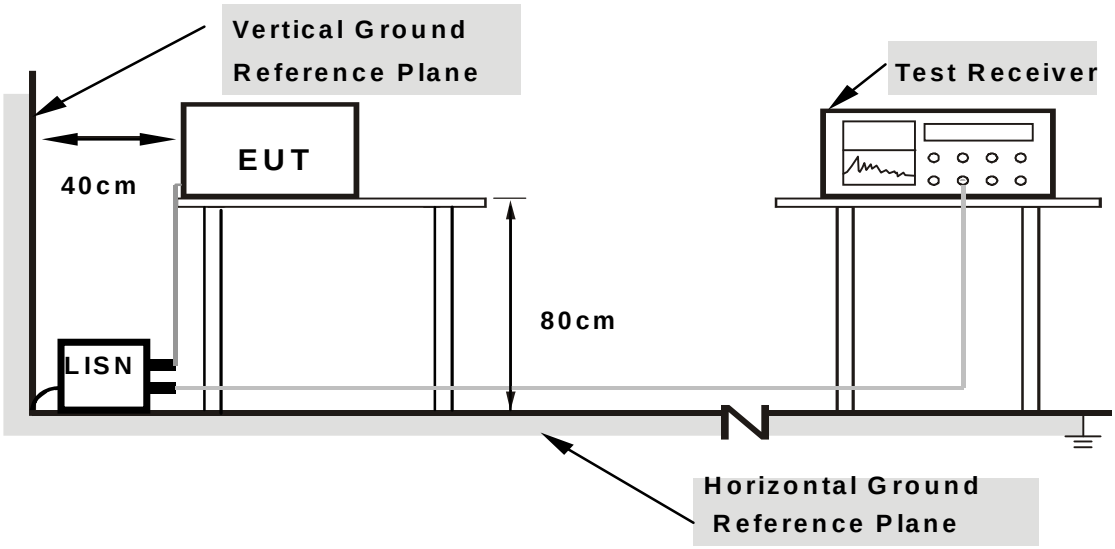
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

a. Turn on the power of all equipment.
b. Notebook PC ran a test program (provided by manufacture) to enable EUT under transmitting condition at specific channel continuously.

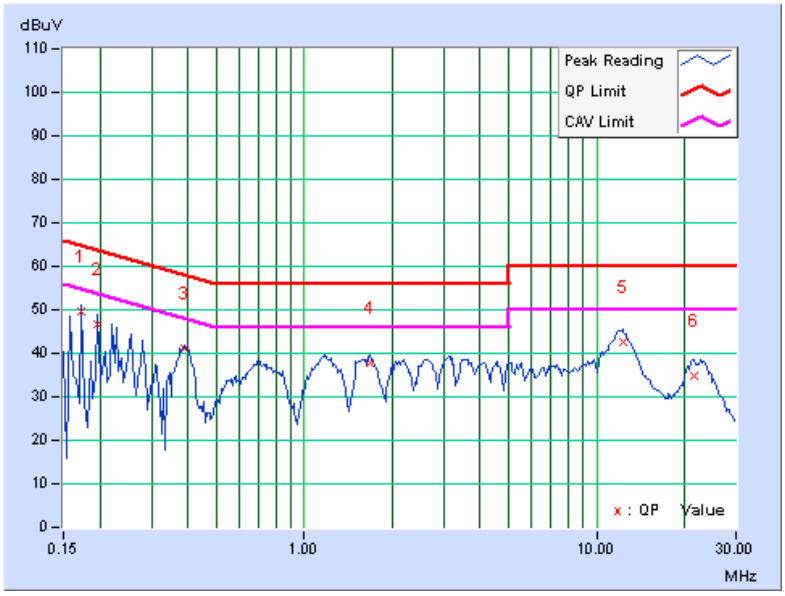
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA： 802.11n (20MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	Channel 11		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.172	0.17	49.38	-	49.55	-	64.86	54.86	-15.31	-
2	0.197	0.17	46.39	-	46.56	-	63.74	53.74	-17.18	-
3	0.388	0.24	41.04	-	41.28	-	58.10	48.10	-16.82	-
4	1.675	0.31	37.49	-	37.80	-	56.00	46.00	-18.20	-
5	12.260	0.91	41.70	-	42.61	-	60.00	50.00	-17.39	-
6	21.651	1.39	33.51	-	34.90	-	60.00	50.00	-25.10	-

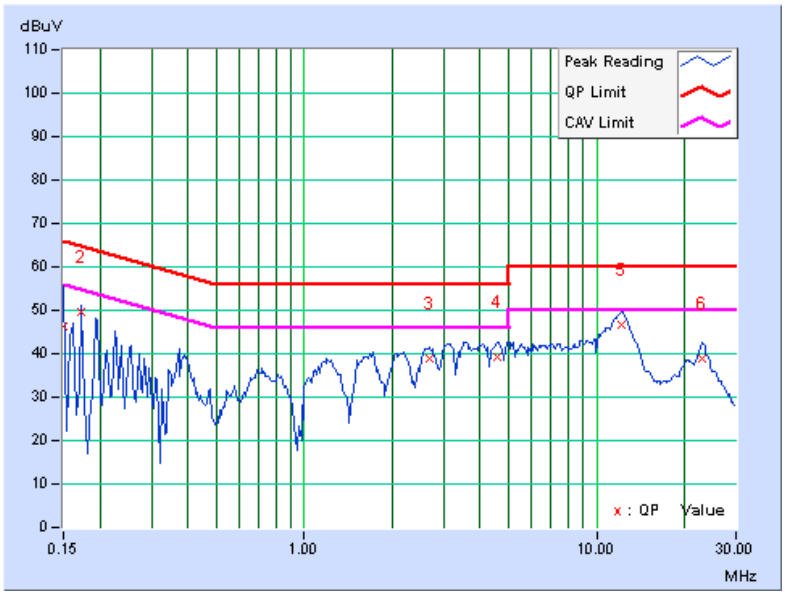
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	Channel 11		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.18	46.02	-	46.20	-	66.00	56.00	-19.80	-
2	0.173	0.18	49.36	-	49.54	-	64.79	54.79	-15.26	-
3	2.668	0.38	38.48	-	38.86	-	56.00	46.00	-17.14	-
4	4.551	0.49	38.69	-	39.18	-	56.00	46.00	-16.82	-
5	**12.105**	**0.74**	**45.82**	**-**	**46.56**	**-**	**60.00**	**50.00**	**-13.44**	**-**
6	22.917	1.04	37.76	-	38.80	-	60.00	50.00	-21.20	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01924	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01292	Mar. 04, 2011	Mar. 03, 2012
Agilent Spectrum Analyzer	E4446A	MY46180403	Jun. 22, 2011	Jun. 21, 2012
Schwarzbeck Antenna	VULB 9168	137	Apr. 12, 2011	Apr. 11, 2012
Schwarzbeck Antenna	VHBA 9123	480	May 06, 2011	May 05, 2012
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2011	Aug. 18, 2012
EMCO Horn Antenna	3115	6714	Oct. 26, 2010	Oct. 25, 2011
EMCO Horn Antenna	3115	9312-4192	Apr. 22, 2011	Apr. 21, 2012
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Chamber No. 6.
4. The Industry Canada Reference No. IC 7450E-6.
5. The FCC Site Registration No. is 447212.

4.2.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

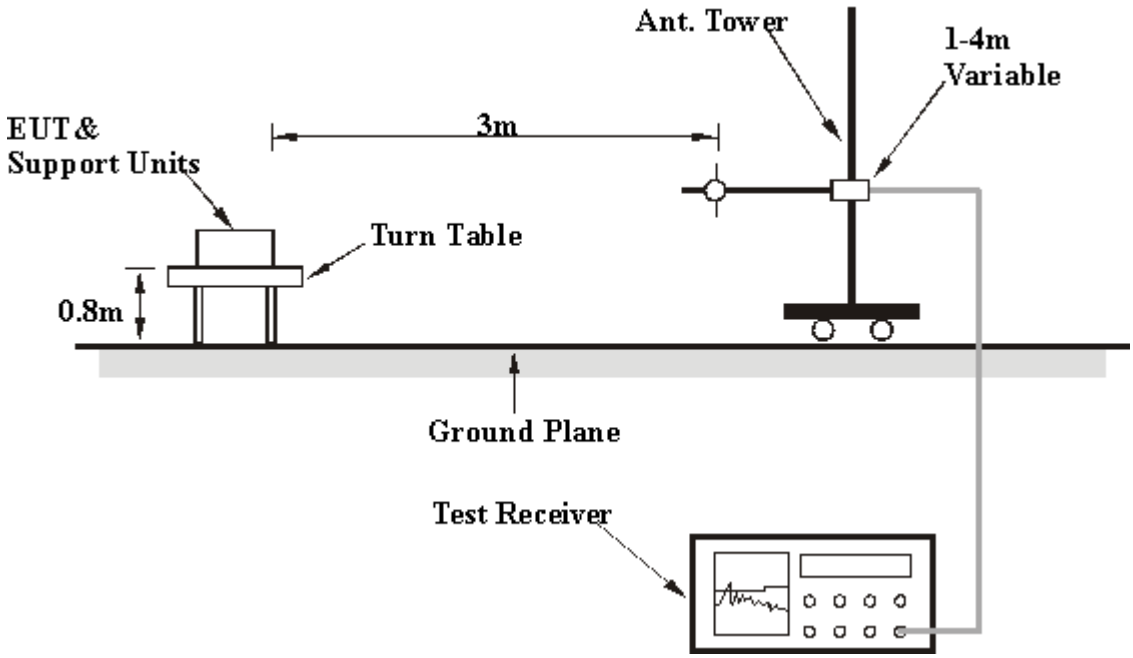
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 100kHz and video bandwidth is 300kHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

4.2.7 TEST RESULTS

802.11b

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.1 PK	74.0	-15.9	1.00 H	85	25.93	32.15
2	2390.00	47.5 AV	54.0	-6.5	1.00 H	85	15.31	32.15
3	*2412.00	113.8 PK			1.00 H	85	81.54	32.24
4	*2412.00	110.2 AV			1.00 H	85	77.91	32.24
5	4824.00	47.5 PK	74.0	-26.5	1.06 H	251	8.80	38.66
6	4824.00	34.7 AV	54.0	-19.3	1.06 H	251	-3.93	38.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.00 V	100	24.96	32.15
2	2390.00	47.2 AV	54.0	-6.8	1.00 V	100	15.03	32.15
3	*2412.00	111.0 PK			1.00 V	100	78.78	32.24
4	*2412.00	107.8 AV			1.00 V	100	75.52	32.24
5	4824.00	47.5 PK	74.0	-26.5	1.00 V	266	8.84	38.66
6	4824.00	36.7 AV	54.0	-17.3	1.00 V	266	-1.93	38.66

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.6 PK			1.00 H	82	80.23	32.33
2	*2437.00	108.9 AV			1.00 H	82	76.58	32.33
3	4874.00	47.8 PK	74.0	-26.2	1.07 H	226	9.04	38.78
4	4874.00	35.0 AV	54.0	-19.0	1.07 H	226	-3.77	38.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.7 PK			1.00 V	98	76.41	32.33
2	*2437.00	105.4 AV			1.00 V	98	73.05	32.33
3	4874.00	47.7 PK	74.0	-26.3	1.00 V	272	8.91	38.78
4	4874.00	37.0 AV	54.0	-17.0	1.00 V	272	-1.76	38.78

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.4 PK			1.00 H	86	79.97	32.43
2	*2462.00	107.6 AV			1.00 H	86	75.13	32.43
3	2483.50	59.1 PK	74.0	-14.9	1.00 H	86	26.55	32.51
4	2483.50	48.4 AV	54.0	-5.6	1.00 H	86	15.87	32.51
5	4924.00	48.9 PK	74.0	-25.1	1.02 H	229	10.03	38.90
6	4924.00	35.6 AV	54.0	-18.4	1.02 H	229	-3.34	38.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.7 PK			1.06 V	100	78.27	32.43
2	*2462.00	107.7 AV			1.06 V	100	75.26	32.43
3	2483.50	59.8 PK	74.0	-14.2	1.06 V	100	27.32	32.51
4	2483.50	47.7 AV	54.0	-6.3	1.06 V	100	15.20	32.51
5	4924.00	49.4 PK	74.0	-24.7	1.00 V	279	10.45	38.90
6	4924.00	38.7 AV	54.0	-15.3	1.00 V	279	-0.24	38.90

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.7 PK	74.0	-9.3	1.00 H	66	32.51	32.15
2	2390.00	49.0 AV	54.0	-5.0	1.00 H	66	16.84	32.15
3	*2412.00	110.8 PK			1.00 H	66	78.52	32.24
4	*2412.00	100.1 AV			1.00 H	66	67.81	32.24
5	4824.00	48.6 PK	74.0	-25.5	1.00 H	93	9.89	38.66
6	4824.00	36.8 AV	54.0	-17.2	1.00 H	93	-1.90	38.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.4 PK	74.0	-9.7	1.11 V	82	32.20	32.15
2	2390.00	48.3 AV	54.0	-5.7	1.11 V	82	16.15	32.15
3	*2412.00	110.4 PK			1.11 V	82	78.12	32.24
4	*2412.00	99.6 AV			1.11 V	82	67.32	32.24
5	4824.00	47.1 PK	74.0	-26.9	1.03 V	99	8.40	38.66
6	4824.00	33.3 AV	54.0	-20.7	1.03 V	99	-5.38	38.66

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.2 PK			1.00 H	84	76.89	32.33
2	*2437.00	99.2 AV			1.00 H	84	66.90	32.33
3	4874.00	49.0 PK	74.0	-25.0	1.09 H	110	10.23	38.78
4	4874.00	37.8 AV	54.0	-16.2	1.09 H	110	-0.97	38.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	107.9 PK			1.12 V	100	75.59	32.33
2	*2437.00	97.3 AV			1.12 V	100	64.92	32.33
3	4874.00	47.6 PK	74.0	-26.4	1.00 V	137	8.84	38.78
4	4874.00	33.5 AV	54.0	-20.5	1.00 V	137	-5.26	38.78

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.7 PK			1.00 H	83	76.28	32.43
2	*2462.00	98.3 AV			1.00 H	83	65.86	32.43
3	2483.50	63.8 PK	74.0	-10.2	1.00 H	83	31.33	32.51
4	2483.50	48.4 AV	54.0	-5.6	1.00 H	83	15.88	32.51
5	4924.00	49.2 PK	74.0	-24.8	1.12 H	108	10.33	38.90
6	4924.00	38.1 AV	54.0	-15.9	1.12 H	108	-0.78	38.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.4 PK			1.10 V	99	75.97	32.43
2	*2462.00	95.7 AV			1.10 V	99	63.26	32.43
3	2483.50	62.7 PK	74.0	-11.3	1.10 V	99	30.20	32.51
4	2483.50	48.2 AV	54.0	-5.8	1.10 V	99	15.70	32.51
5	4924.00	48.1 PK	74.0	-25.9	1.00 V	123	9.23	38.90
6	4924.00	33.7 AV	54.0	-20.3	1.00 V	123	-5.17	38.90

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.7 PK	74.0	-10.3	1.00 H	67	31.56	32.15
2	2390.00	48.8 AV	54.0	-5.2	1.00 H	67	16.63	32.15
3	*2412.00	111.6 PK			1.00 H	67	79.35	32.24
4	*2412.00	99.1 AV			1.00 H	67	66.88	32.24
5	4824.00	47.3 PK	74.0	-26.7	1.09 H	84	8.66	38.66
6	4824.00	33.7 AV	54.0	-20.3	1.09 H	84	-4.93	38.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.4 PK	74.0	-10.6	1.00 V	67	31.28	32.15
2	2390.00	48.1 AV	54.0	-5.9	1.00 V	67	15.99	32.15
3	*2412.00	109.2 PK			1.00 V	67	76.92	32.24
4	*2412.00	97.7 AV			1.00 V	67	65.50	32.24
5	4824.00	47.1 PK	74.0	-26.9	1.09 V	84	8.47	38.66
6	4824.00	33.0 AV	54.0	-21.0	1.09 V	84	-5.62	38.66

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.7 PK			1.00 H	83	77.36	32.33
2	*2437.00	97.3 AV			1.00 H	83	64.93	32.33
3	4874.00	48.0 PK	74.0	-26.0	1.05 H	100	9.21	38.78
4	4874.00	37.0 AV	54.0	-17.0	1.05 H	100	-1.77	38.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.3 PK			1.00 V	83	75.92	32.33
2	*2437.00	96.4 AV			1.00 V	83	64.03	32.33
3	4874.00	47.6 PK	74.0	-26.4	1.05 V	100	8.78	38.78
4	4874.00	36.5 AV	54.0	-17.5	1.05 V	100	-2.26	38.78

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.3 PK			1.00 H	84	76.82	32.43
2	*2462.00	96.9 AV			1.00 H	84	64.51	32.43
3	2483.50	63.1 PK	74.0	-10.9	1.00 H	83	30.58	32.51
4	2483.50	48.8 AV	54.0	-5.3	1.00 H	83	16.24	32.51
5	4924.00	48.2 PK	74.0	-25.8	1.01 H	97	9.27	38.90
6	4924.00	37.1 AV	54.0	-16.9	1.01 H	97	-1.82	38.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.8 PK			1.00 V	84	75.34	32.43
2	*2462.00	96.3 AV			1.00 V	84	63.83	32.43
3	2483.50	62.3 PK	74.0	-11.7	1.00 V	83	29.78	32.51
4	2483.50	48.6 AV	54.0	-5.4	1.00 V	83	16.12	32.51
5	4924.00	47.8 PK	74.0	-26.2	1.01 V	97	8.87	38.90
6	4924.00	36.8 AV	54.0	-17.2	1.01 V	97	-2.08	38.90

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	1.00 H	84	36.56	32.15
2	2390.00	50.1 AV	54.0	-3.9	1.00 H	84	17.96	32.15
3	*2422.00	107.9 PK			1.00 H	84	75.59	32.27
4	*2422.00	97.3 AV			1.00 H	84	64.98	32.27
5	4844.00	47.5 PK	74.0	-26.5	1.00 H	137	8.81	38.71
6	4844.00	36.5 AV	54.0	-17.5	1.00 H	137	-2.19	38.71
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.8 PK	74.0	-6.2	1.10 V	83	35.65	32.15
2	2390.00	50.0 AV	54.0	-4.0	1.10 V	83	17.81	32.15
3	*2422.00	106.8 PK			1.10 V	83	74.51	32.27
4	*2422.00	95.9 AV			1.10 V	83	63.58	32.27
5	4844.00	47.7 PK	74.0	-26.3	1.07 V	99	9.00	38.71
6	4844.00	36.8 AV	54.0	-17.3	1.07 V	99	-1.96	38.71

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.9 PK			1.02 H	84	74.53	32.33
2	*2437.00	96.5 AV			1.02 H	84	64.14	32.33
3	4874.00	47.6 PK	74.0	-26.4	1.00 H	104	8.78	38.78
4	4874.00	36.5 AV	54.0	-17.5	1.00 H	104	-2.26	38.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.0 PK			1.10 V	97	73.64	32.33
2	*2437.00	95.3 AV			1.10 V	97	62.96	32.33
3	4874.00	47.8 PK	74.0	-26.2	1.00 V	65	9.06	38.78
4	4874.00	37.9 AV	54.0	-16.1	1.00 V	65	-0.88	38.78

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 72%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.8 PK			1.00 H	68	74.37	32.39
2	*2452.00	95.9 AV			1.00 H	68	63.52	32.39
3	2483.50	69.2 PK	74.0	-4.8	1.00 H	68	36.72	32.51
4	2483.50	51.8 AV	54.0	-2.2	1.00 H	68	19.28	32.51
5	4904.00	47.8 PK	74.0	-26.2	1.02 H	100	8.91	38.86
6	4904.00	37.7 AV	54.0	-16.3	1.02 H	100	-1.12	38.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.2 PK			1.09 V	91	72.85	32.39
2	*2452.00	93.2 AV			1.09 V	91	60.83	32.39
3	2483.50	67.8 PK	74.0	-6.2	1.09 V	91	35.32	32.51
4	2483.50	50.8 AV	54.0	-3.2	1.09 V	91	18.27	32.51
5	4904.00	48.1 PK	74.0	-25.9	1.02 V	118	9.26	38.86
6	4904.00	38.3 AV	54.0	-15.8	1.02 V	118	-0.61	38.86

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

BELOW 1GHz WORST-CASE DATA：802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 69%RH	TESTED BY	Nick Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	50.98	36.7 QP	40.0	-3.3	1.08 H	124	22.84	13.82
2	94.56	40.5 QP	43.5	-3.0	1.12 H	121	31.50	8.97
3	144.59	32.9 QP	43.5	-10.7	1.28 H	226	18.83	14.02
4	199.47	37.3 QP	43.5	-6.2	1.03 H	10	25.94	11.39
5	293.08	34.5 QP	46.0	-11.5	1.11 H	247	19.16	15.32
6	798.25	45.2 QP	46.0	-0.8	1.02 H	289	18.60	26.57
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	50.98	39.3 QP	40.0	-0.7	1.02 V	67	25.50	13.82
2	**96.17**	**43.0 QP**	**43.5**	**-0.5**	**1.07 V**	**265**	**33.92**	**9.12**
3	144.59	37.0 QP	43.5	-6.5	1.11 V	169	22.98	14.02
4	168.80	35.4 QP	43.5	-8.1	1.02 V	205	21.30	14.10
5	199.47	38.7 QP	43.5	-4.8	1.26 V	10	27.29	11.39
6	599.73	34.7 QP	46.0	-11.3	1.25 V	196	11.27	23.42
7	798.25	39.8 QP	46.0	-6.2	1.50 V	190	13.21	26.57

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100036	Apr. 29, 2011	Apr. 28, 2012

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

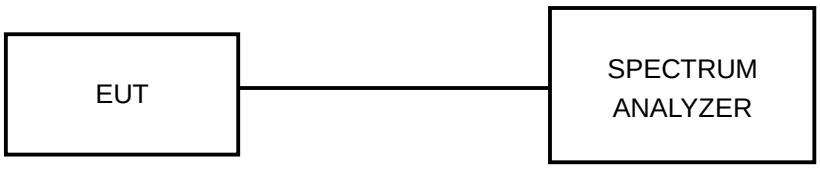
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

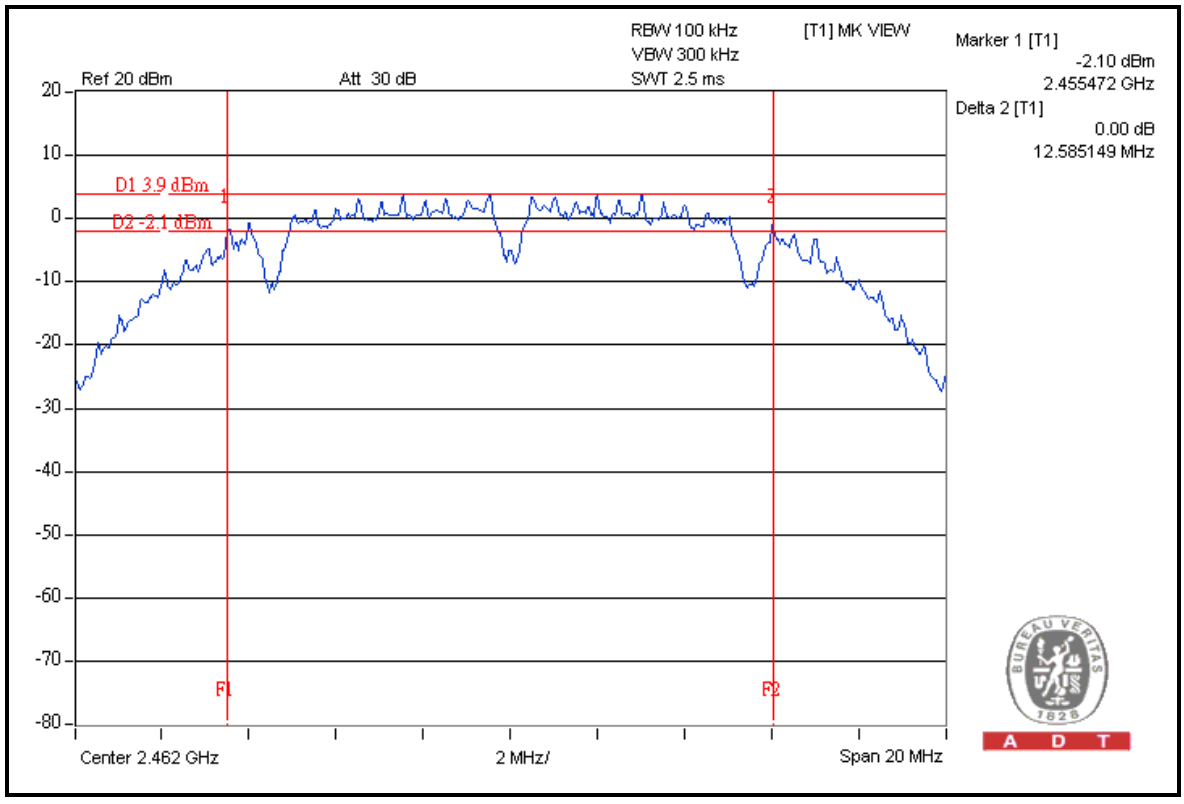
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	12.11	12.10	0.5	PASS
6	2437	12.05	12.12	0.5	PASS
11	2462	12.58	12.57	0.5	PASS

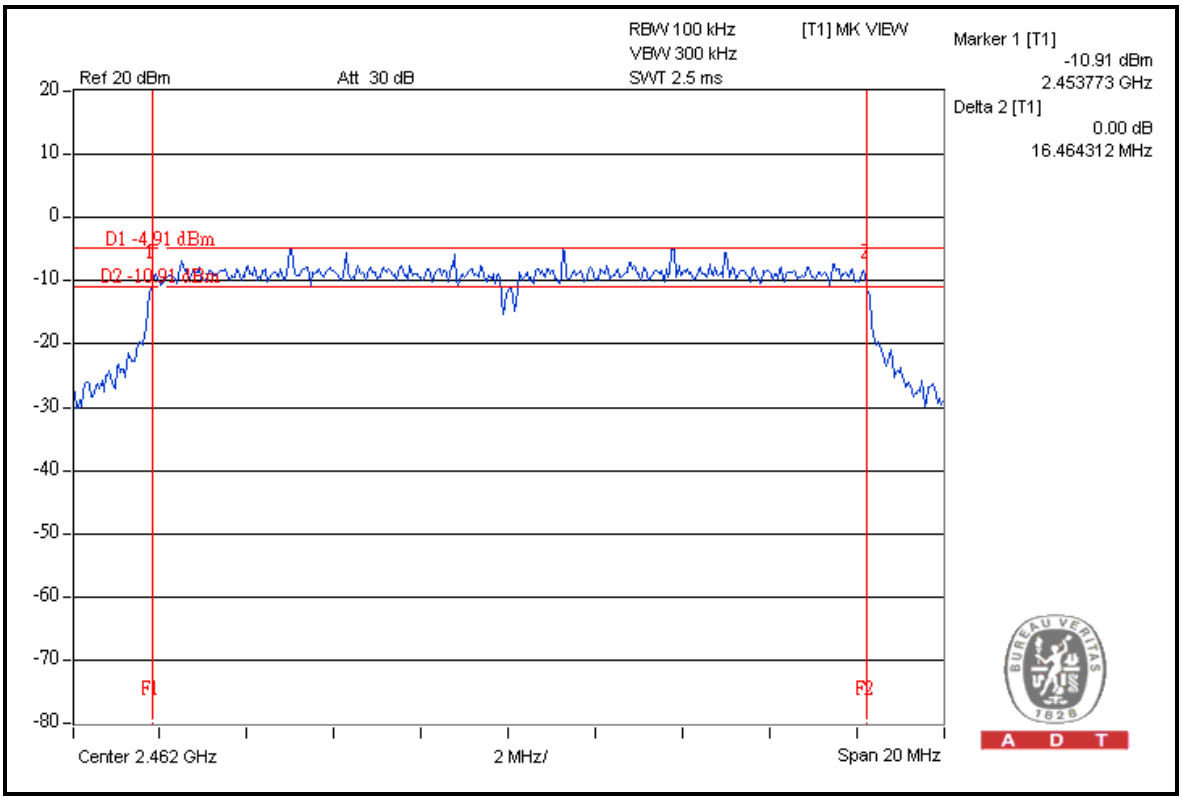
FOR CHAIN 0: CH 11



802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.42	16.41	0.5	PASS
6	2437	16.44	16.43	0.5	PASS
11	2462	16.46	16.46	0.5	PASS

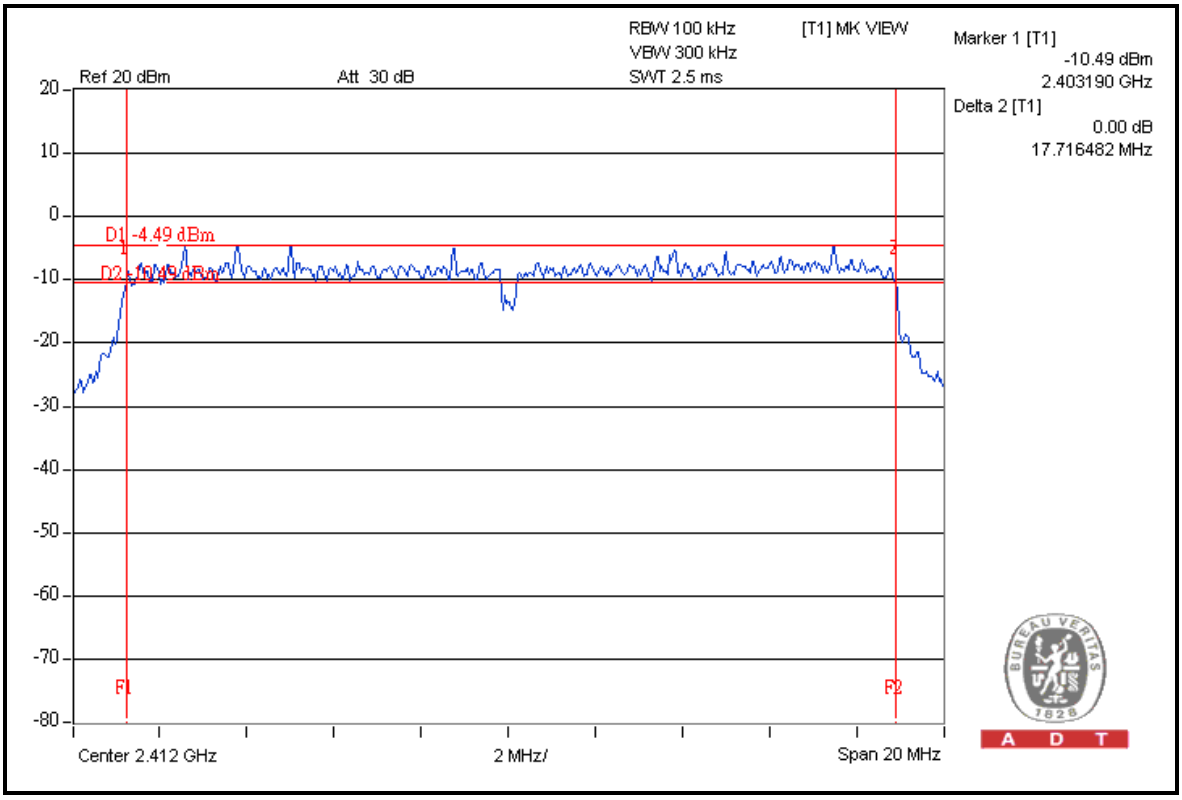
FOR CHAIN 0: CH 11



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.66	17.71	0.5	PASS
6	2437	17.65	17.71	0.5	PASS
11	2462	17.65	17.69	0.5	PASS

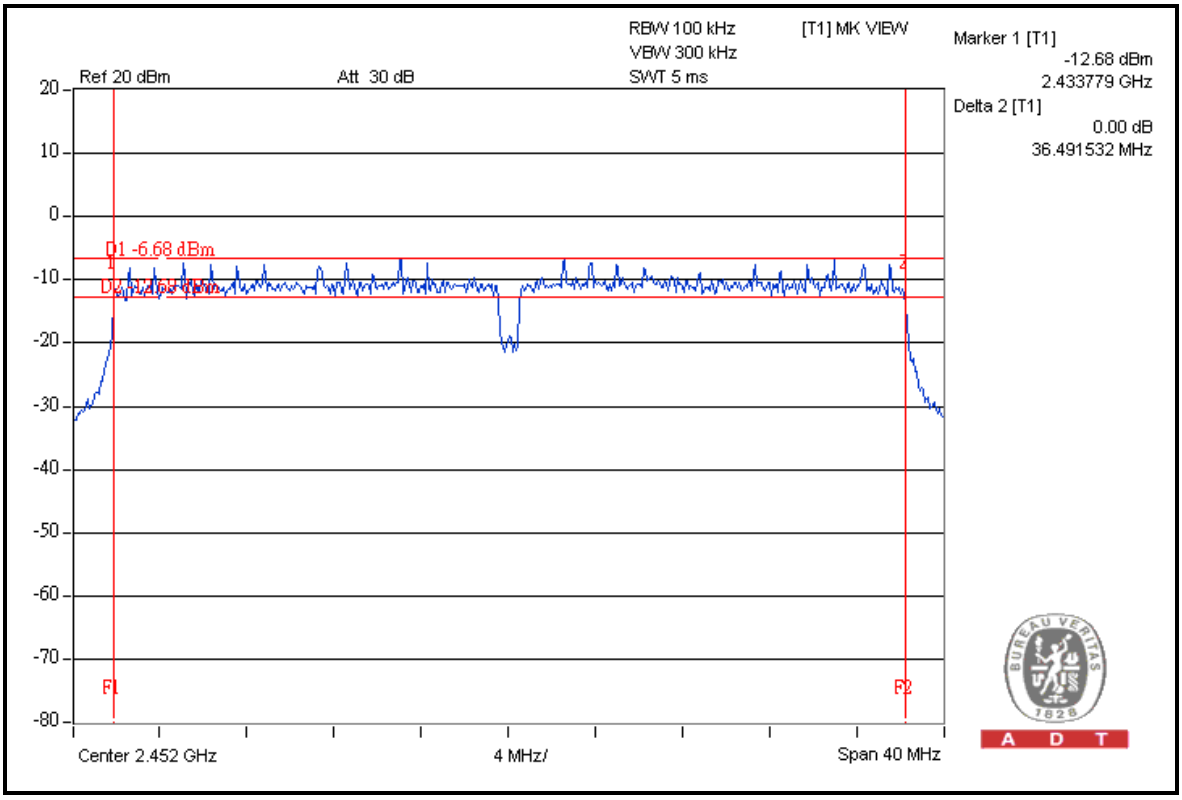
FOR CHAIN 1: CH 1



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	36.15	36.41	0.5	PASS
4	2437	36.47	36.48	0.5	PASS
7	2452	36.44	36.49	0.5	PASS

FOR CHAIN 1: CH 7



4.4 MAXIMUM OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Anritsu Power Sensor	MA2411B	0738404	Apr. 26, 2011	Apr. 25, 2012
Anritsu Power Meter	ML2495A	0842014	Apr. 26, 2011	Apr. 25, 2012

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

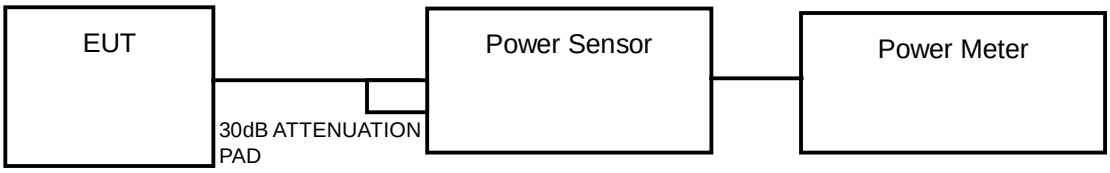
4.4.3 TEST PROCEDURES

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

802.11b

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	19.0	18.6	151.9	21.8	23	PASS
6	2437	18.9	18.7	151.8	21.8	23	PASS
11	2462	18.9	19.0	**157.1**	**22.0**	23	PASS

NOTE: Directional gain =10dBi + 10log(2)=13dBi > 6dBi , so the conducted power limit shall be reduced to 30-(13-6)=23dBm.

802.11g

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	18.4	18.3	136.8	21.4	23	PASS
6	2437	18.4	18.5	140.0	21.5	23	PASS
11	2462	18.1	19.0	144.0	21.6	23	PASS

NOTE: Directional gain =10dBi + 10log(2)=13dBi > 6dBi , so the conducted power limit shall be reduced to 30-(13-6)=23dBm.

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2412	18.7	18.8	150.0	21.8	26	PASS
6	2437	18.7	18.3	141.7	21.5	26	PASS
11	2462	18.3	19.2	150.8	21.8	26	PASS

NOTE: Directional gain =10dBi > 6dBi, so the conducted power limit shall be reduced to 30-(10-6)=26dBm.

802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
1	2422	19.3	18.5	155.9	21.9	26	PASS
4	2437	19.1	18.8	**157.1**	**22.0**	26	PASS
7	2452	18.5	19.3	155.9	21.9	26	PASS

NOTE: Directional gain =10dBi > 6dBi, so the conducted power limit shall be reduced to 30-(10-6)=26dBm.

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSP40	100036	Apr. 29, 2011	Apr. 28, 2012

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

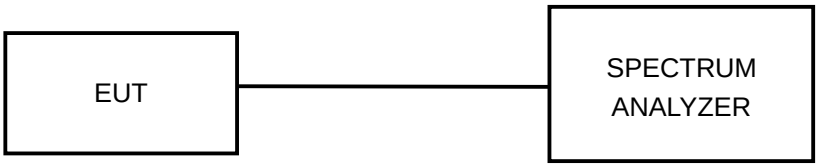
The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

Follow method 2 of KDB 662911 D01 Multiple Transmitter Output v01 to calculate total power density of 2 TX port.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

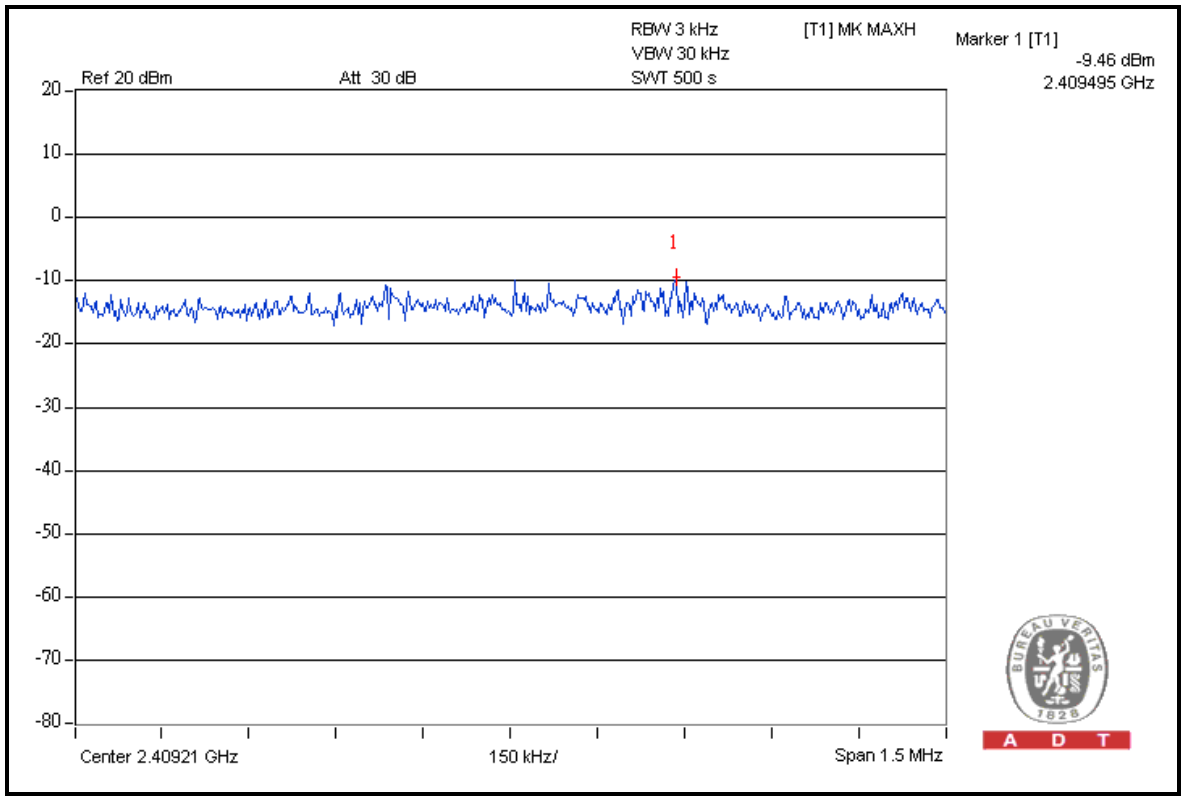
4.5.7 TEST RESULTS

802.11b

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2412	-9.5	3.01	-6.5	1	PASS
	6	2437	-10.2	3.01	-7.2	1	PASS
	11	2462	-10.0	3.01	-7.0	1	PASS
1	1	2412	-10.5	3.01	-7.5	1	PASS
	6	2437	-9.9	3.01	-6.9	1	PASS
	11	2462	-9.5	3.01	-6.5	1	PASS

NOTE: Directional gain =10dBi + 10log(2)=13dBi > 6dBi , so the power density limit shall be reduced to 8-(13-6)=1dBm.

FOR CHAIN 0: CH 1

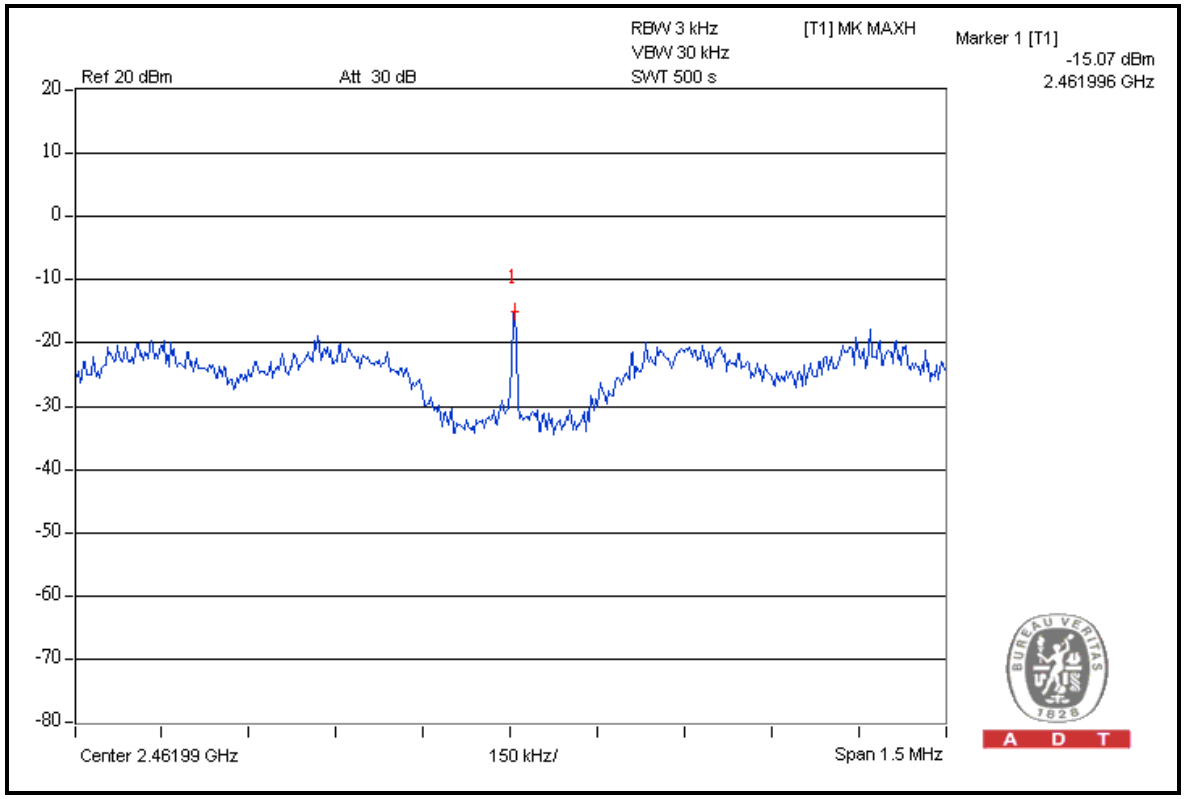


802.11g

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2412	-16.4	3.01	-13.4	1	PASS
	6	2437	-17.8	3.01	-14.8	1	PASS
	11	2462	-15.1	3.01	-12.1	1	PASS
1	1	2412	-17.2	3.01	-14.2	1	PASS
	6	2437	-16.6	3.01	-13.6	1	PASS
	11	2462	-16.5	3.01	-13.5	1	PASS

NOTE: Directional gain =10dBi + 10log(2)=13dBi > 6dBi , so the power density limit shall be reduced to 8-(13-6)=1dBm.

FOR CHAIN 0: CH 11

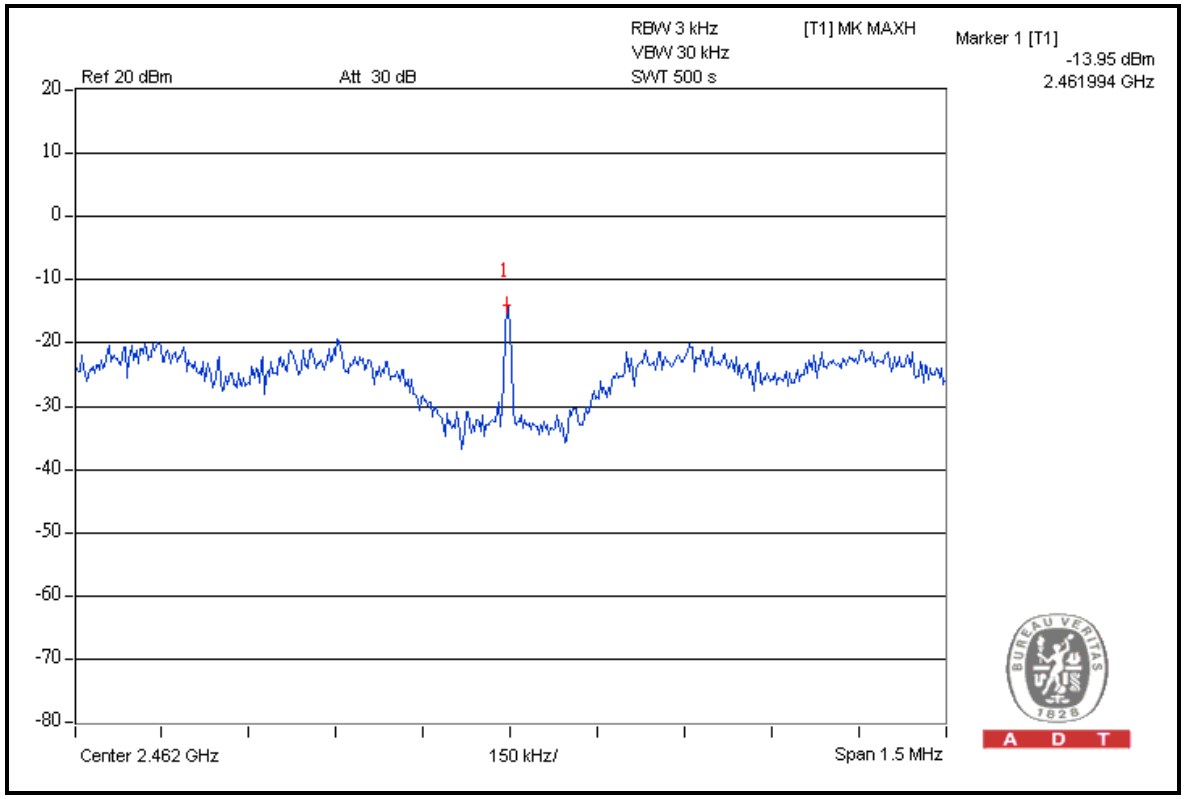


802.11n (20MHz)

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2412	-19.4	3.01	-16.4	4	PASS
	6	2437	-17.4	3.01	-14.4	4	PASS
	11	2462	-14.0	3.01	-11.0	4	PASS
1	1	2412	-16.4	3.01	-13.4	4	PASS
	6	2437	-18.5	3.01	-15.5	4	PASS
	11	2462	-18.6	3.01	-15.6	4	PASS

NOTE: Directional gain =10dBi > 6dBi, so the power density limit shall be reduced to 8-(10-6)=4dBm.

FOR CHAIN 0: CH 11

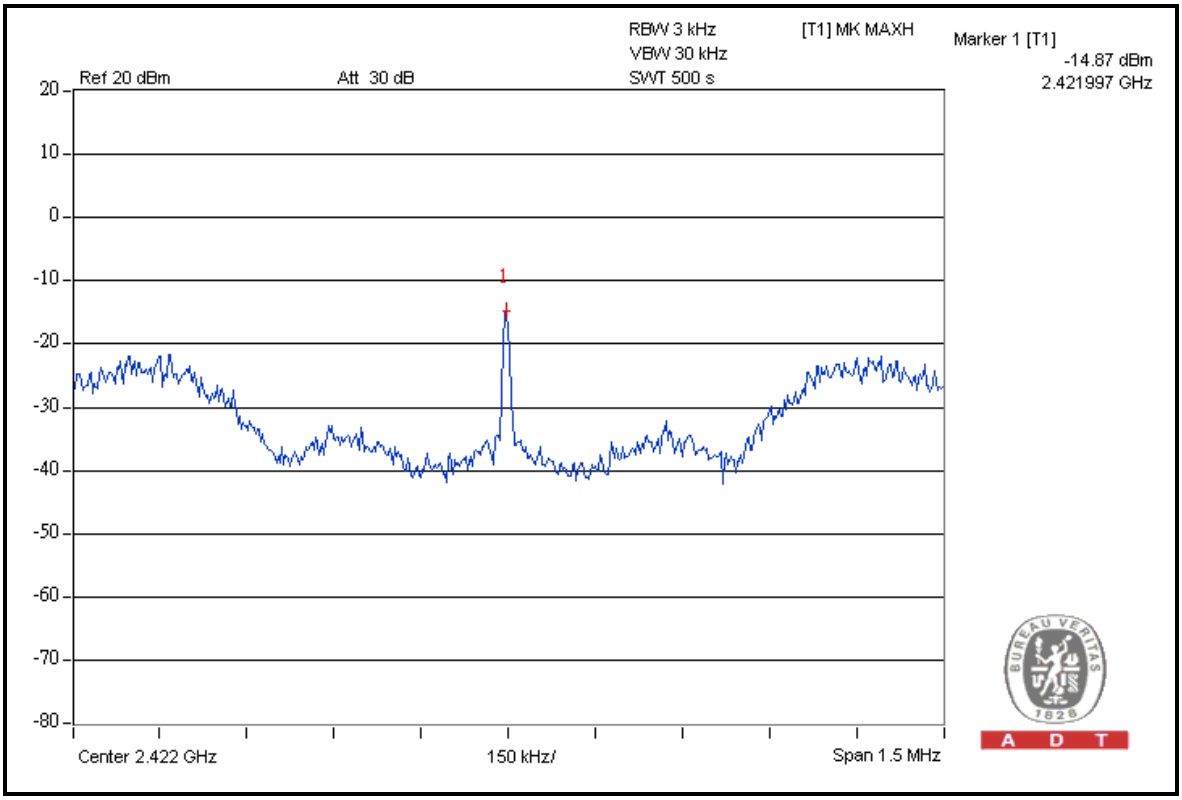


802.11n (40MHz)

CHAIN	CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
			MEASURED	10 log (N=2) dB			
0	1	2422	-14.9	3.01	-11.9	4	PASS
	4	2437	-18.0	3.01	-15.0	4	PASS
	7	2452	-19.3	3.01	-16.3	4	PASS
1	1	2422	-20.1	3.01	-17.1	4	PASS
	4	2437	-20.7	3.01	-17.7	4	PASS
	7	2452	-21.5	3.01	-18.5	4	PASS

NOTE: Directional gain =10dBi > 6dBi, so the power density limit shall be reduced to 8-(10-6)=4dBm.

FOR CHAIN 0: CH 1



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01924	Mar. 04, 2011	Mar. 03, 2012
HP Preamplifier	8449B	3008A01292	Mar. 04, 2011	Mar. 03, 2012
Agilent Spectrum Analyzer	E4446A	MY46180403	Jun. 22, 2011	Jun. 21, 2012
Schwarzbeck Antenna	VULB 9168	137	Apr. 12, 2011	Apr. 11, 2012
Schwarzbeck Antenna	VHBA 9123	480	May 06, 2011	May 05, 2012
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2011	Aug. 18, 2012
EMCO Horn Antenna	3115	6714	Oct. 26, 2010	Oct. 25, 2011
EMCO Horn Antenna	3115	9312-4192	Apr. 22, 2011	Apr. 21, 2012
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA

NOTE: The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. Set both RBW and VBW of spectrum analyzer to 1MHz and 3MHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.

4.6.6 TEST RESULTS

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

The spectrum plots (Peak RBW =100kHz, VBW = 300kHz; Average RBW = 1MHz, VBW = 10Hz) are attached on the following pages.

802.11b

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	113.8	58.8	55.0	74.0
2412.00 (AV)	110.2	61.0	49.2	54.0

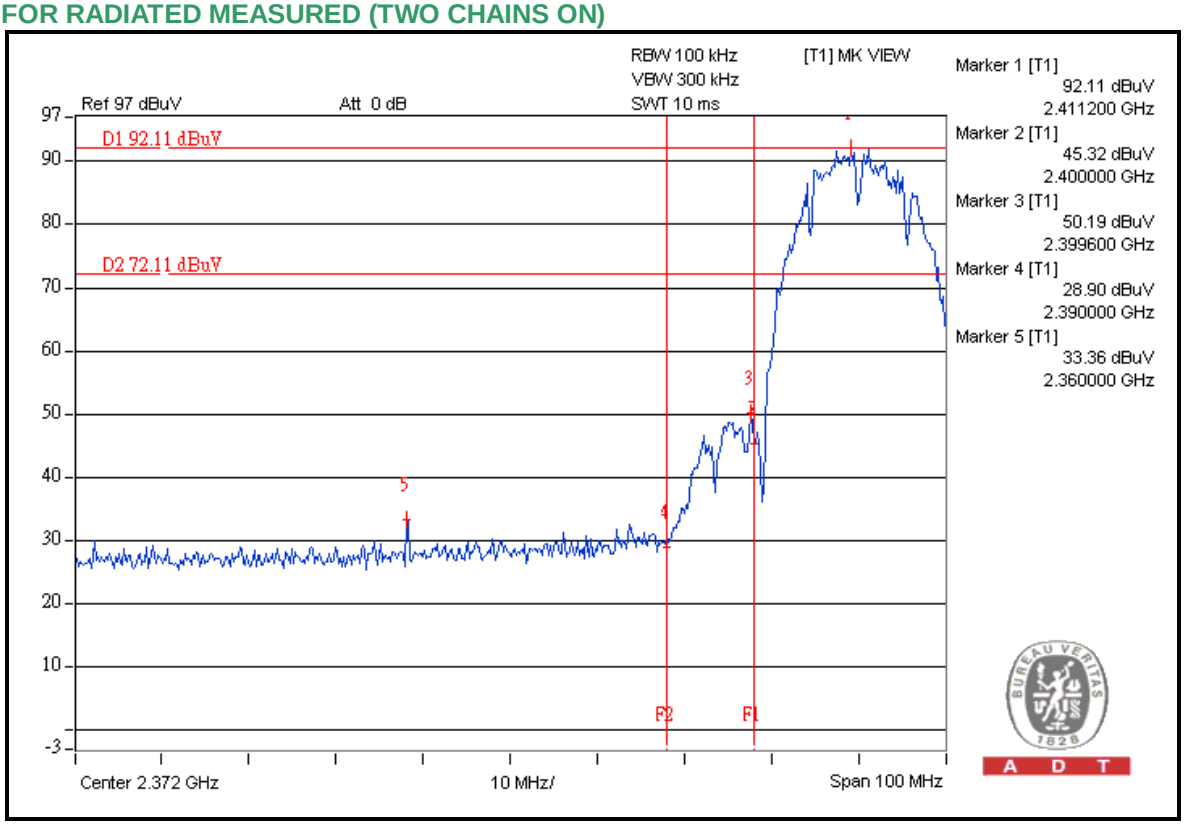
RESTRICT BAND (2483.5 ~ 2500 MHz)

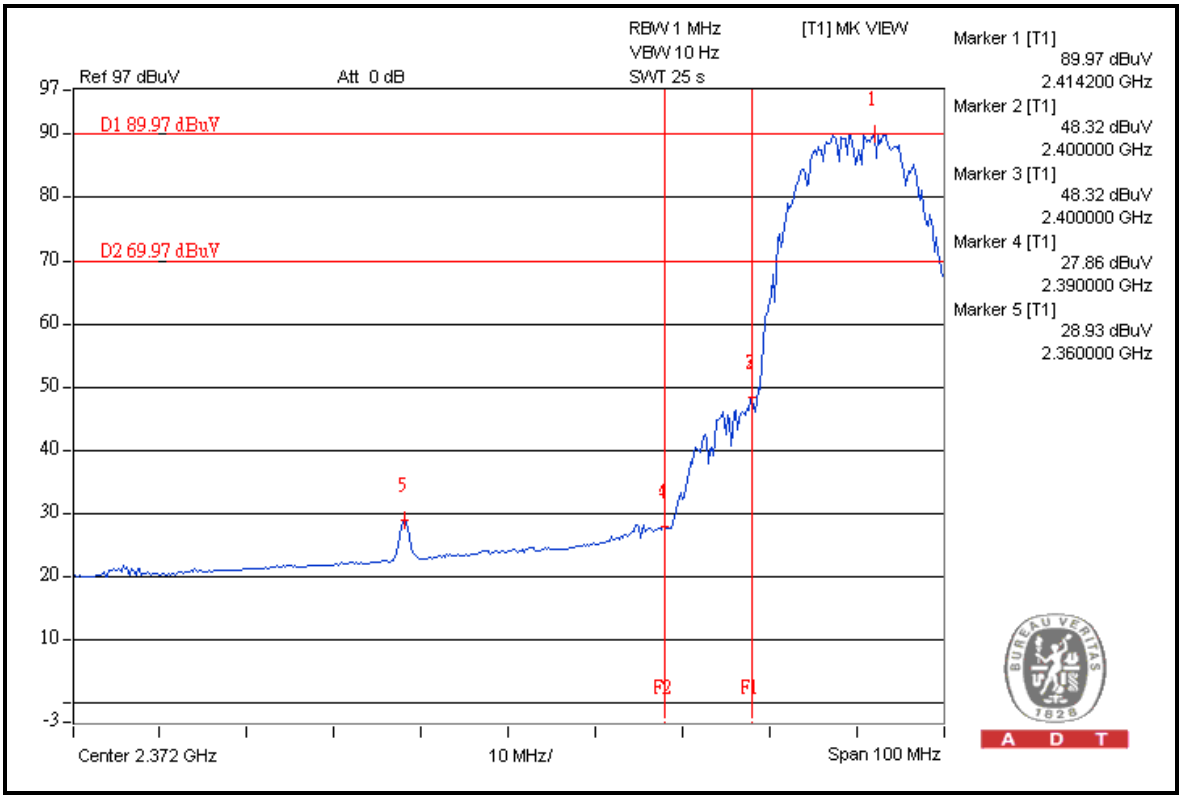
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	112.4	59.2	53.2	74.0
2462.00 (AV)	107.6	62.0	45.6	54.0

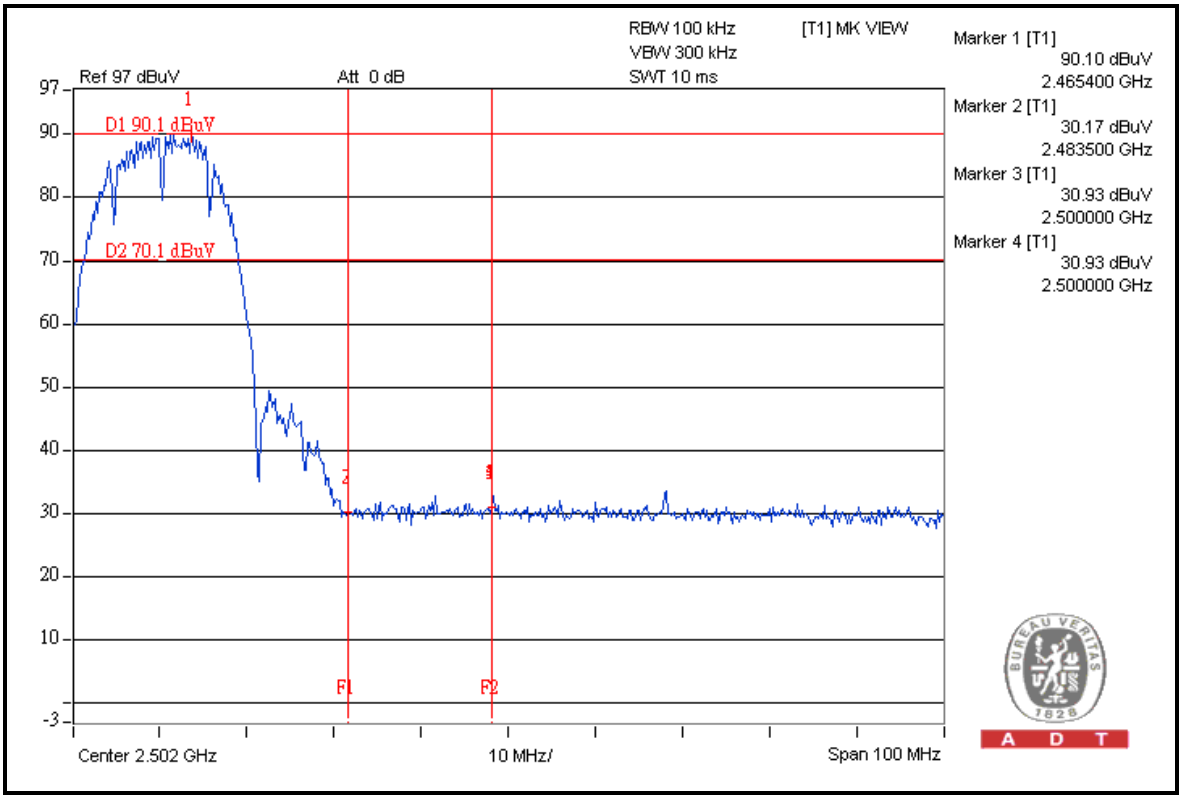
NOTE:

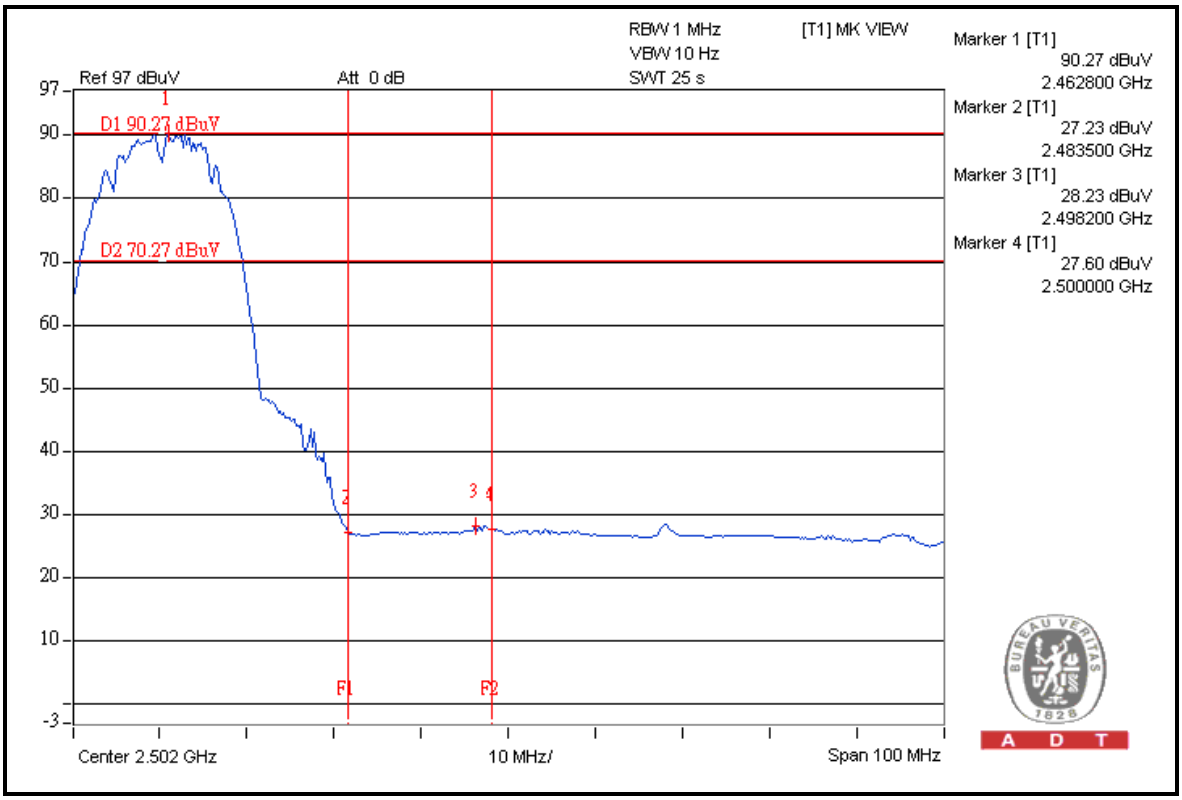
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

FOR RADIATED MEASURED (TWO CHAINS ON)



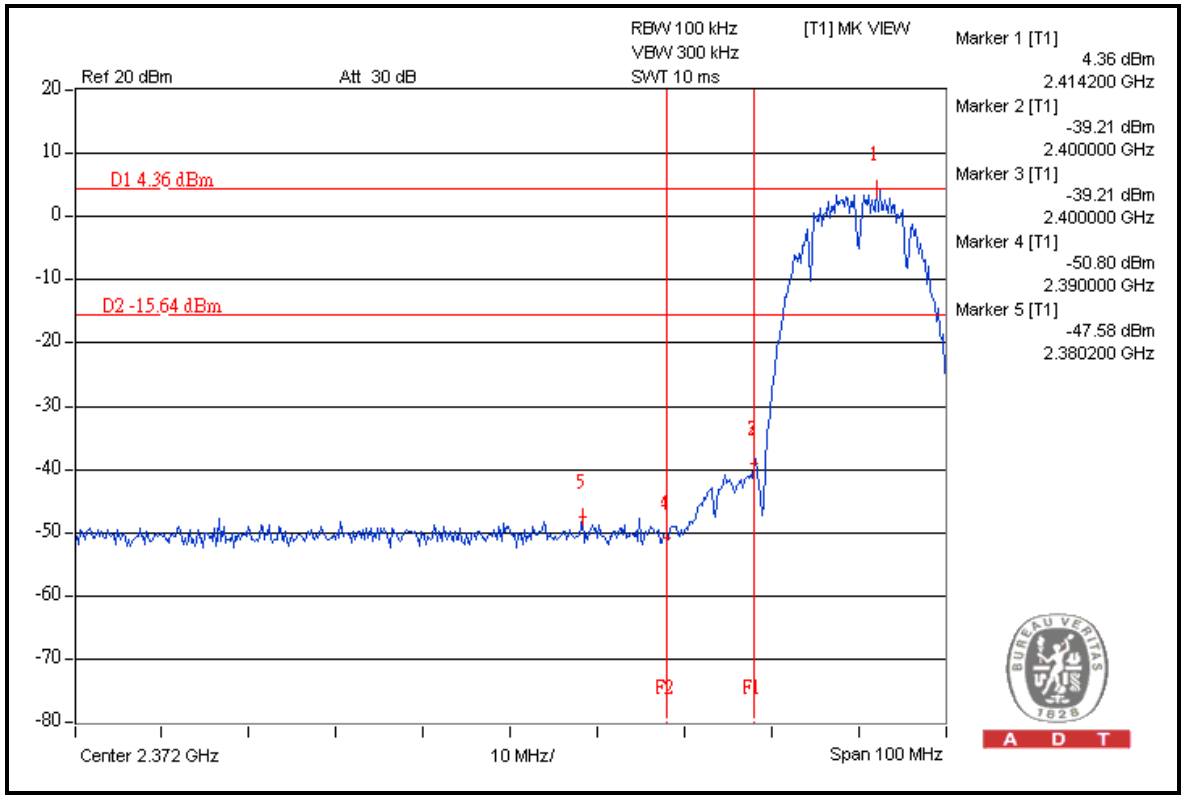


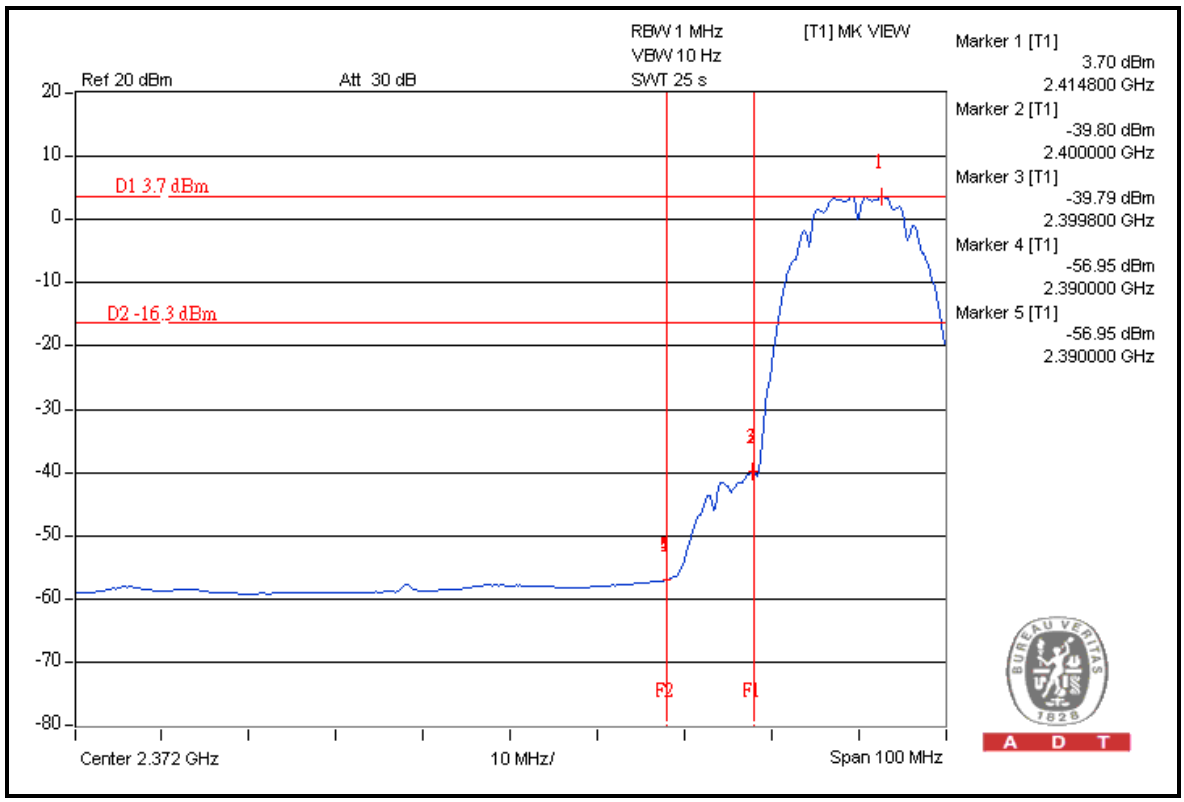

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 90.1 dBuV
D2 70.1 dBuV
Marker 1 [T1]
90.10 dBuV
2.465400 GHz
Marker 2 [T1]
30.17 dBuV
2.483500 GHz
Marker 3 [T1]
30.93 dBuV
2.500000 GHz
Marker 4 [T1]
30.93 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

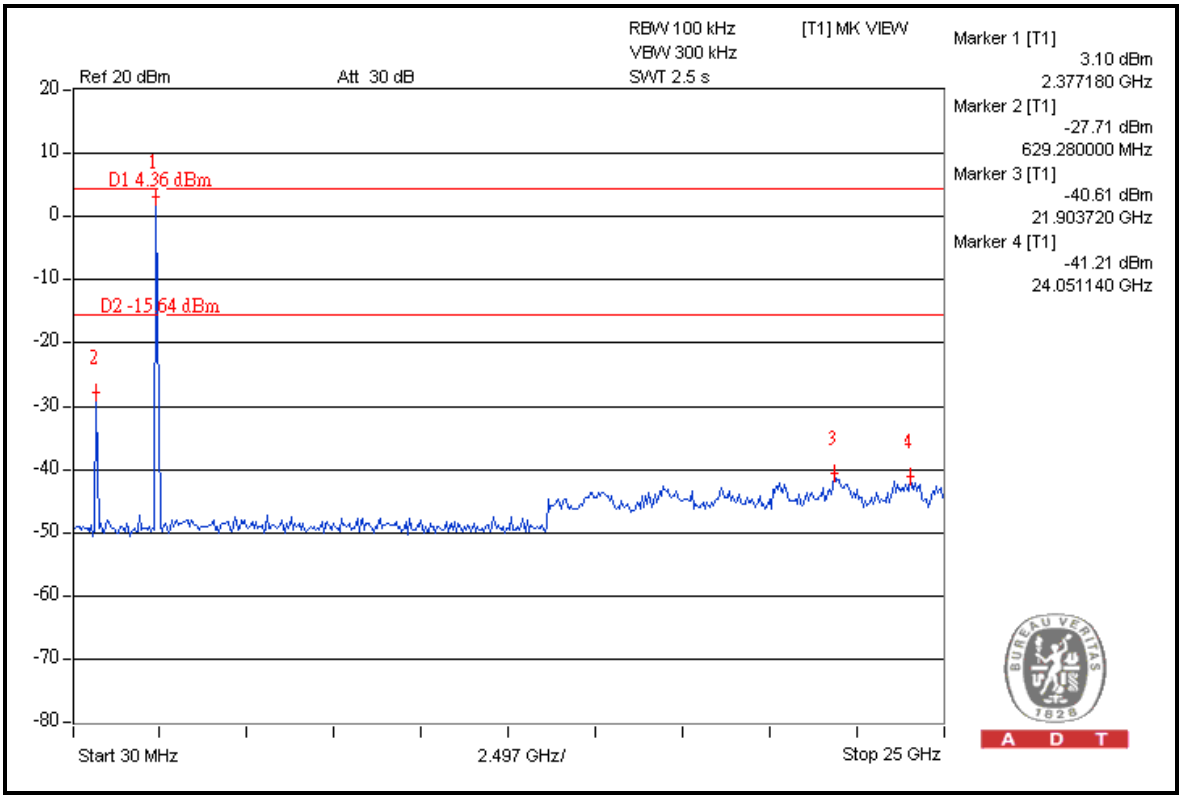

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 90.27 dBuV
D2 70.27 dBuV
Marker 1 [T1]
90.27 dBuV
2.462800 GHz
Marker 2 [T1]
27.23 dBuV
2.483500 GHz
Marker 3 [T1]
28.23 dBuV
2.498200 GHz
Marker 4 [T1]
27.60 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

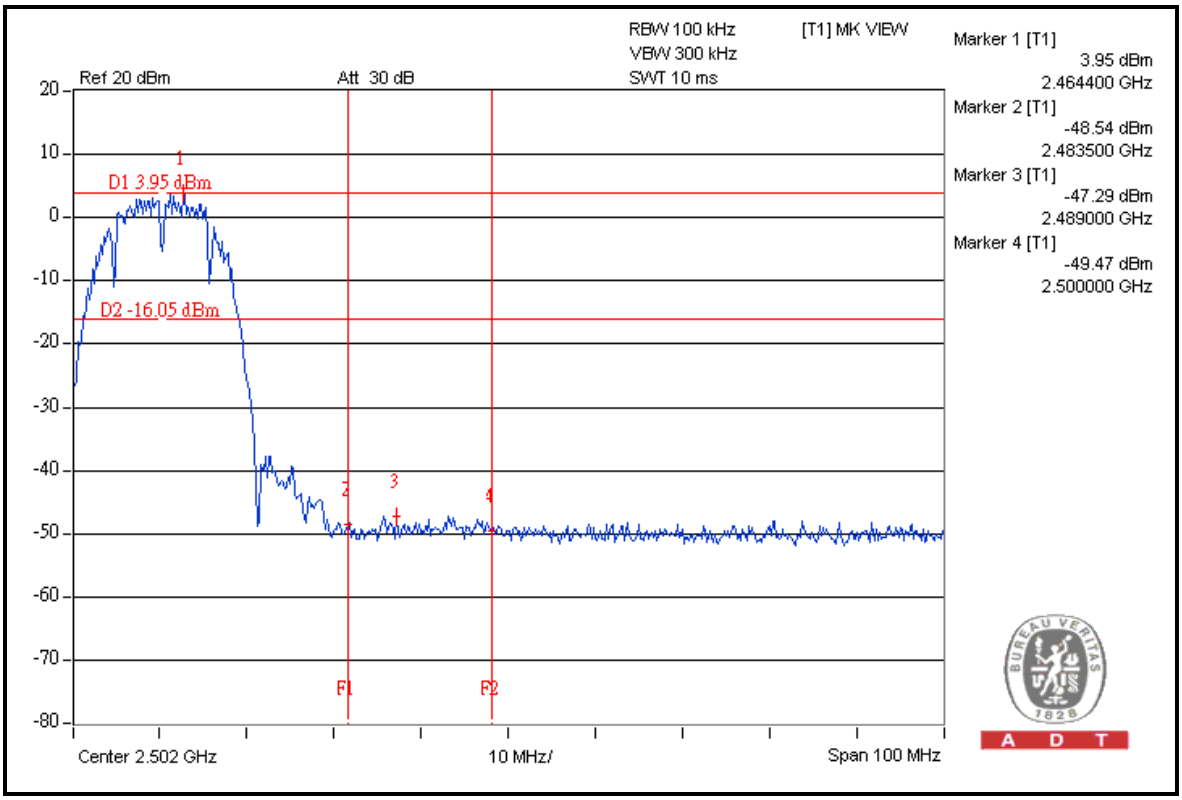
FOR CONDUCTED MEASURED

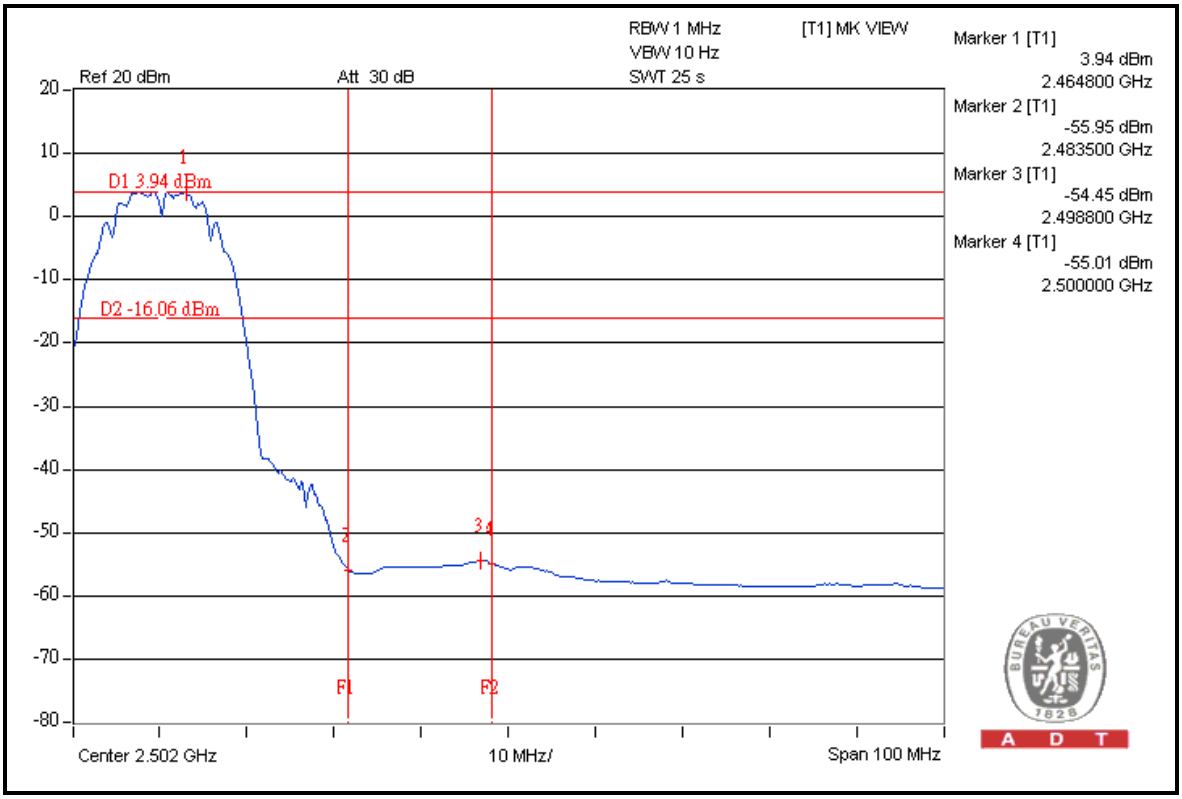
CHAIN 0

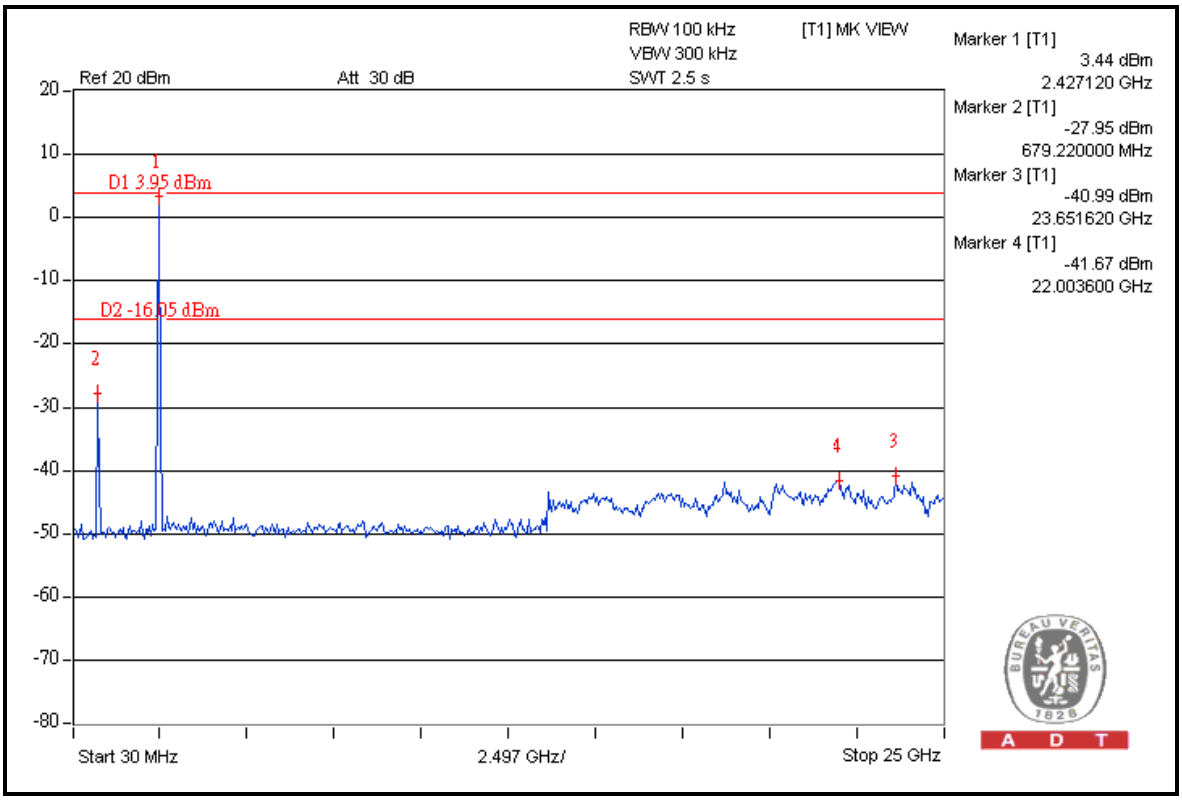




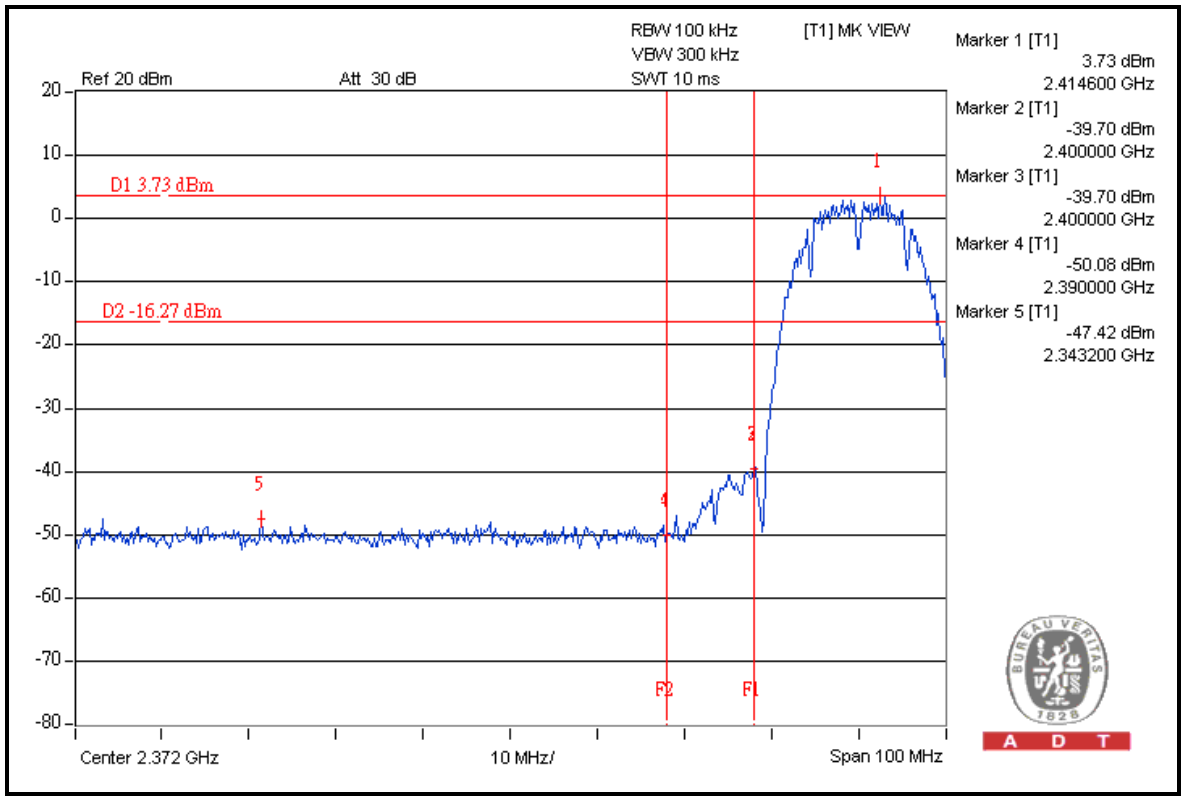

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 4.36 dBm
D2 -15.64 dBm
Marker 1 [T1]
3.10 dBm
2.377180 GHz
Marker 2 [T1]
-27.71 dBm
629.280000 MHz
Marker 3 [T1]
-40.61 dBm
21.903720 GHz
Marker 4 [T1]
-41.21 dBm
24.051140 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

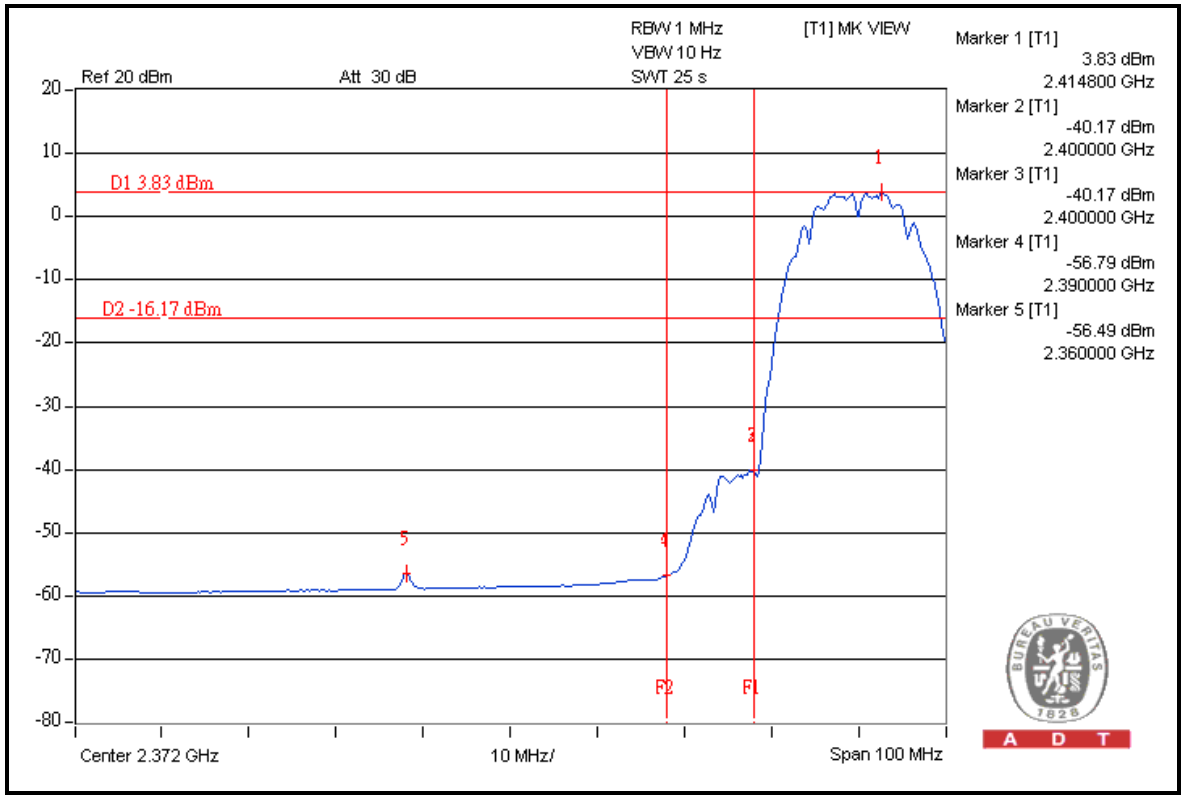

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.95 dBm
D2 -16.05 dBm
Marker 1 [T1]
3.95 dBm
2.464400 GHz
Marker 2 [T1]
-48.54 dBm
2.483500 GHz
Marker 3 [T1]
-47.29 dBm
2.489000 GHz
Marker 4 [T1]
-49.47 dBm
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

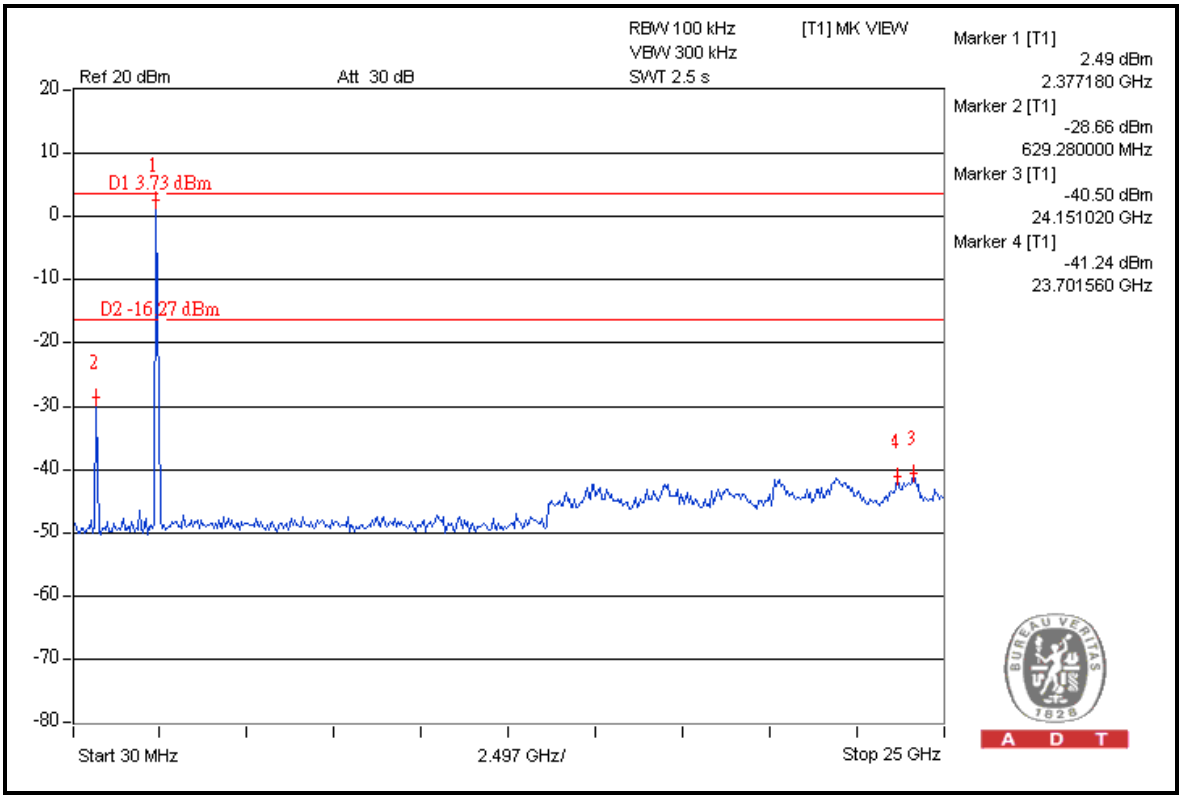

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.94 dBm
D2 -16.06 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
3.94 dBm
2.464800 GHz
Marker 2 [T1]
-55.95 dBm
2.483500 GHz
Marker 3 [T1]
-54.45 dBm
2.498800 GHz
Marker 4 [T1]
-55.01 dBm
2.500000 GHz

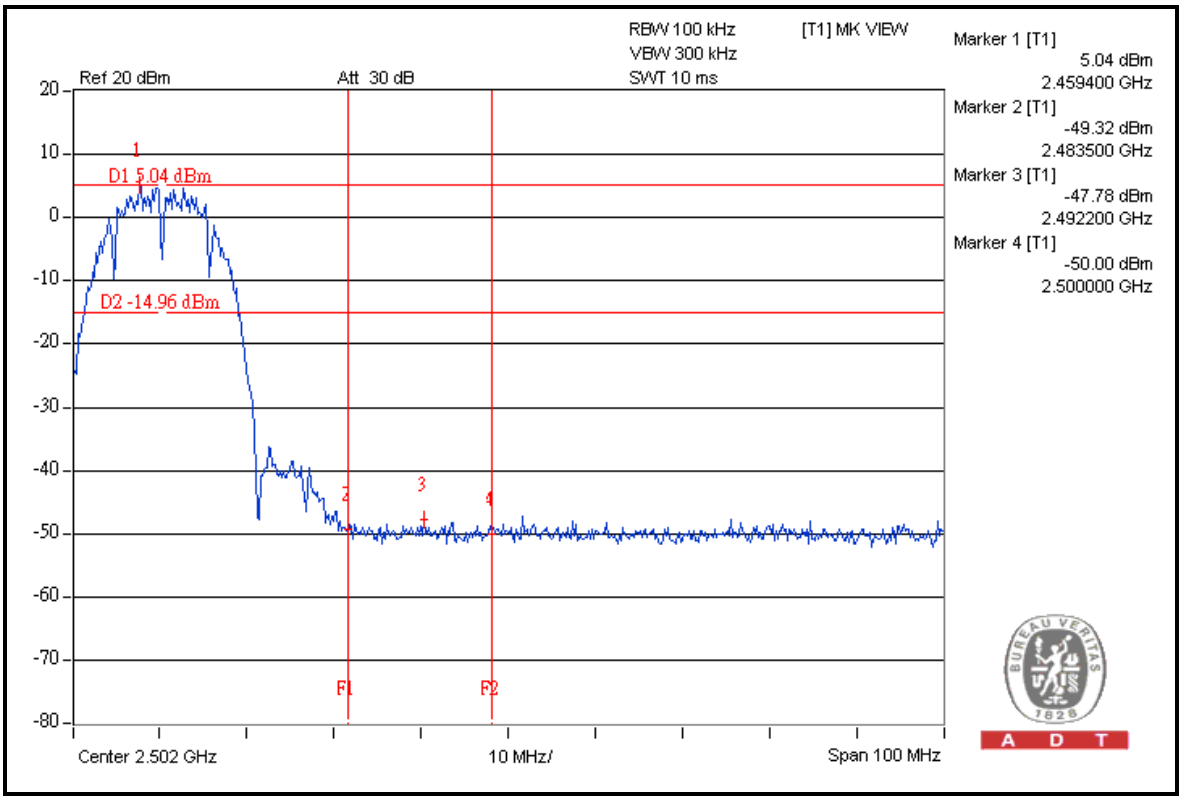

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.95 dBm
D2 -16.05 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
3.44 dBm
2.427120 GHz
Marker 2 [T1]
-27.95 dBm
679.220000 MHz
Marker 3 [T1]
-40.99 dBm
23.651620 GHz
Marker 4 [T1]
-41.67 dBm
22.003600 GHz

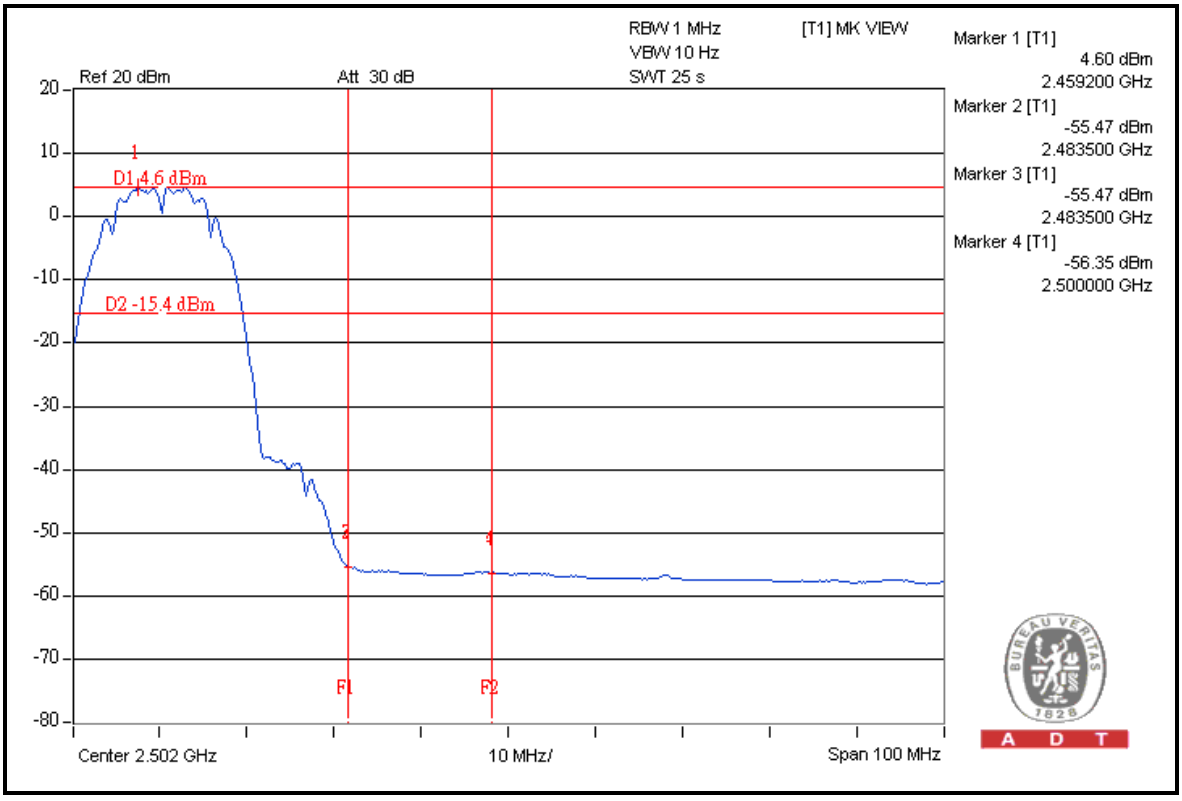
CHAIN 1

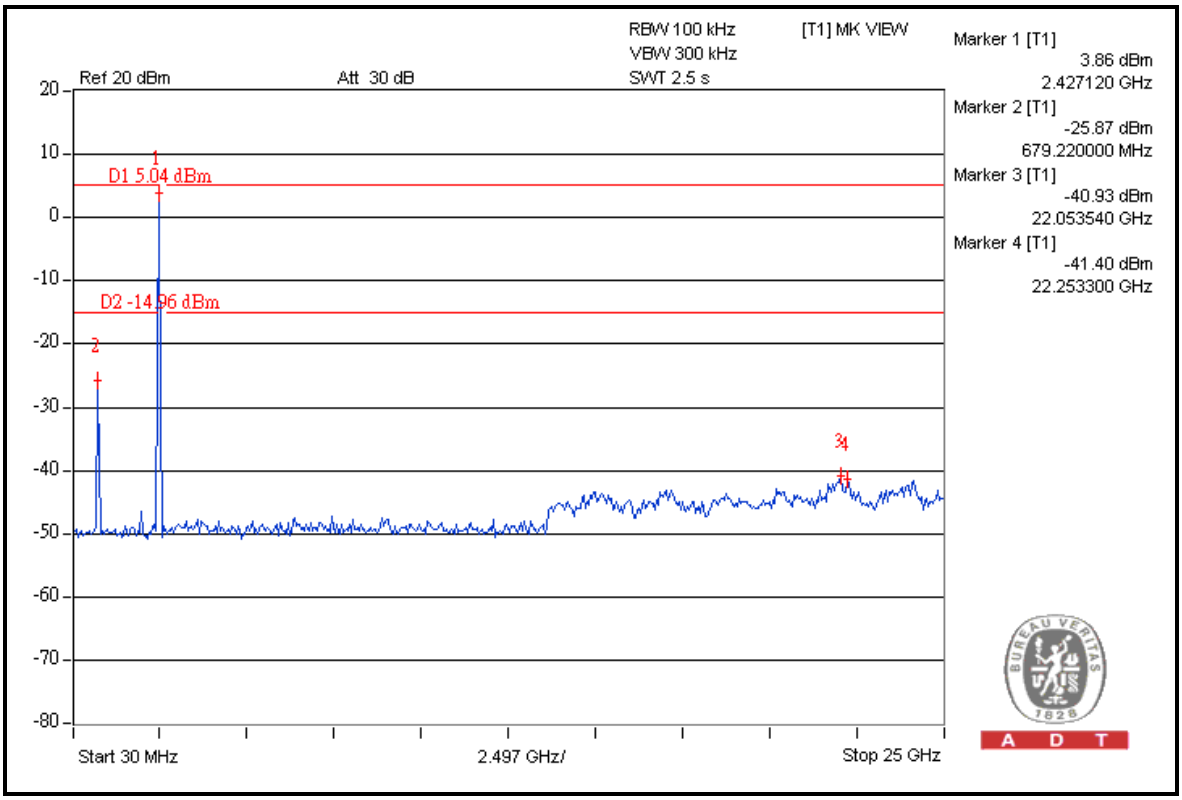

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.73 dBm
D2 -16.27 dBm
Marker 1 [T1]
3.73 dBm
2.414600 GHz
Marker 2 [T1]
-39.70 dBm
2.400000 GHz
Marker 3 [T1]
-39.70 dBm
2.400000 GHz
Marker 4 [T1]
-50.08 dBm
2.390000 GHz
Marker 5 [T1]
-47.42 dBm
2.343200 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.83 dBm
D2 -16.17 dBm
Marker 1 [T1]
3.83 dBm
2.414800 GHz
Marker 2 [T1]
-40.17 dBm
2.400000 GHz
Marker 3 [T1]
-40.17 dBm
2.400000 GHz
Marker 4 [T1]
-56.79 dBm
2.390000 GHz
Marker 5 [T1]
-56.49 dBm
2.360000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.73 dBm
D2 -16.27 dBm
Marker 1 [T1]
2.49 dBm
2.377180 GHz
Marker 2 [T1]
-28.66 dBm
629.280000 MHz
Marker 3 [T1]
-40.50 dBm
24.151020 GHz
Marker 4 [T1]
-41.24 dBm
23.701560 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 5.04 dBm
D2 -14.96 dBm
Marker 1 [T1]
5.04 dBm
2.459400 GHz
Marker 2 [T1]
-49.32 dBm
2.483500 GHz
Marker 3 [T1]
-47.78 dBm
2.492200 GHz
Marker 4 [T1]
-50.00 dBm
2.500000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 4.6 dBm
D2 -15.4 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
4.60 dBm
2.459200 GHz
Marker 2 [T1]
-55.47 dBm
2.483500 GHz
Marker 3 [T1]
-55.47 dBm
2.483500 GHz
Marker 4 [T1]
-56.35 dBm
2.500000 GHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 5.04 dBm
D2 -14.96 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
3.86 dBm
2.427120 GHz
Marker 2 [T1]
-25.87 dBm
679.220000 MHz
Marker 3 [T1]
-40.93 dBm
22.053540 GHz
Marker 4 [T1]
-41.40 dBm
22.253300 GHz

802.11g

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	110.8	49.5	61.3	74.0
2412.00 (AV)	100.1	51.7	48.4	54.0

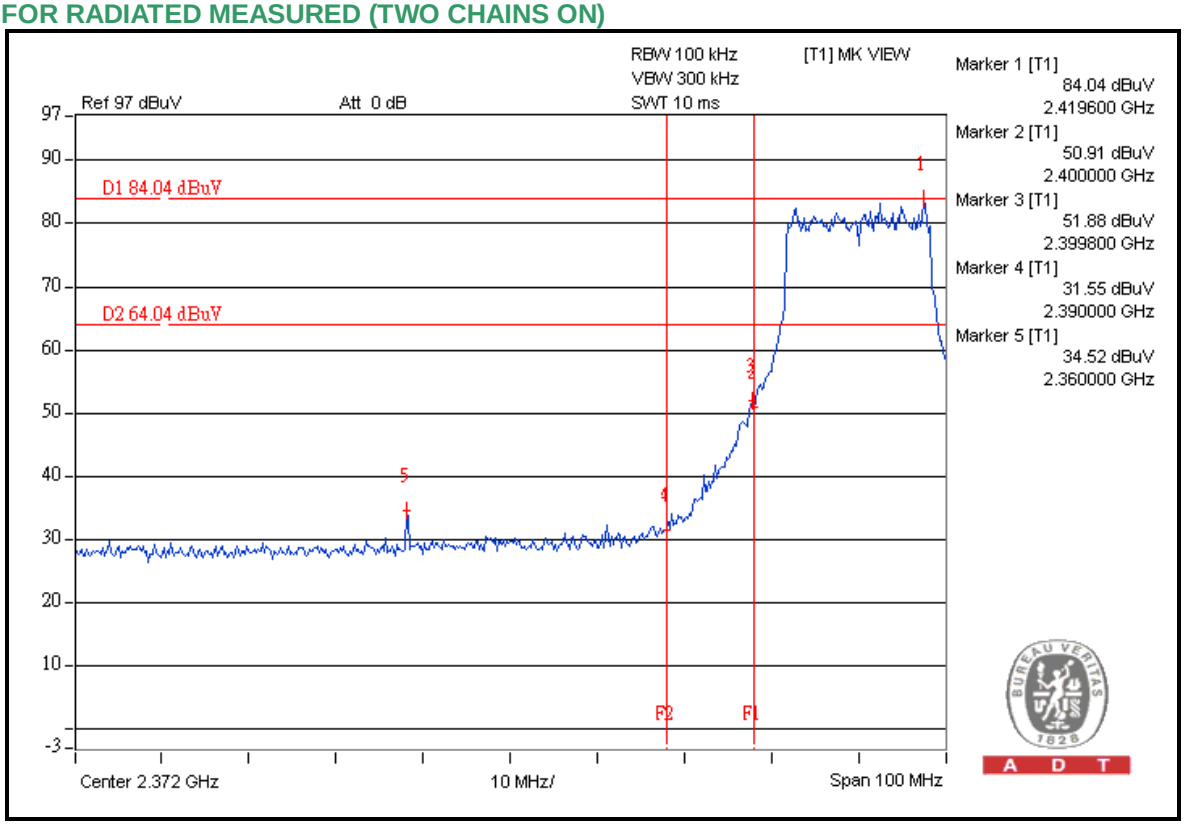
RESTRICT BAND (2483.5 ~ 2500 MHz)

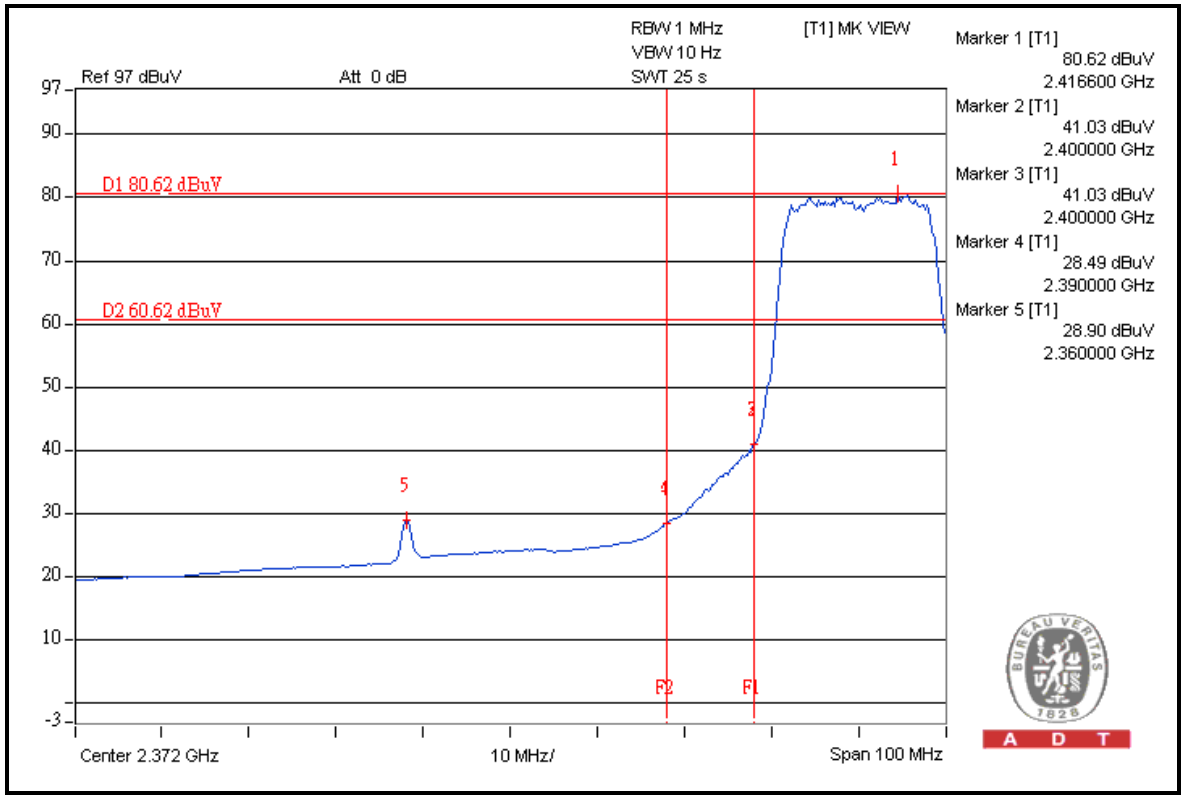
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	108.7	47.8	60.9	74.0
2462.00 (AV)	98.3	51.2	47.1	54.0

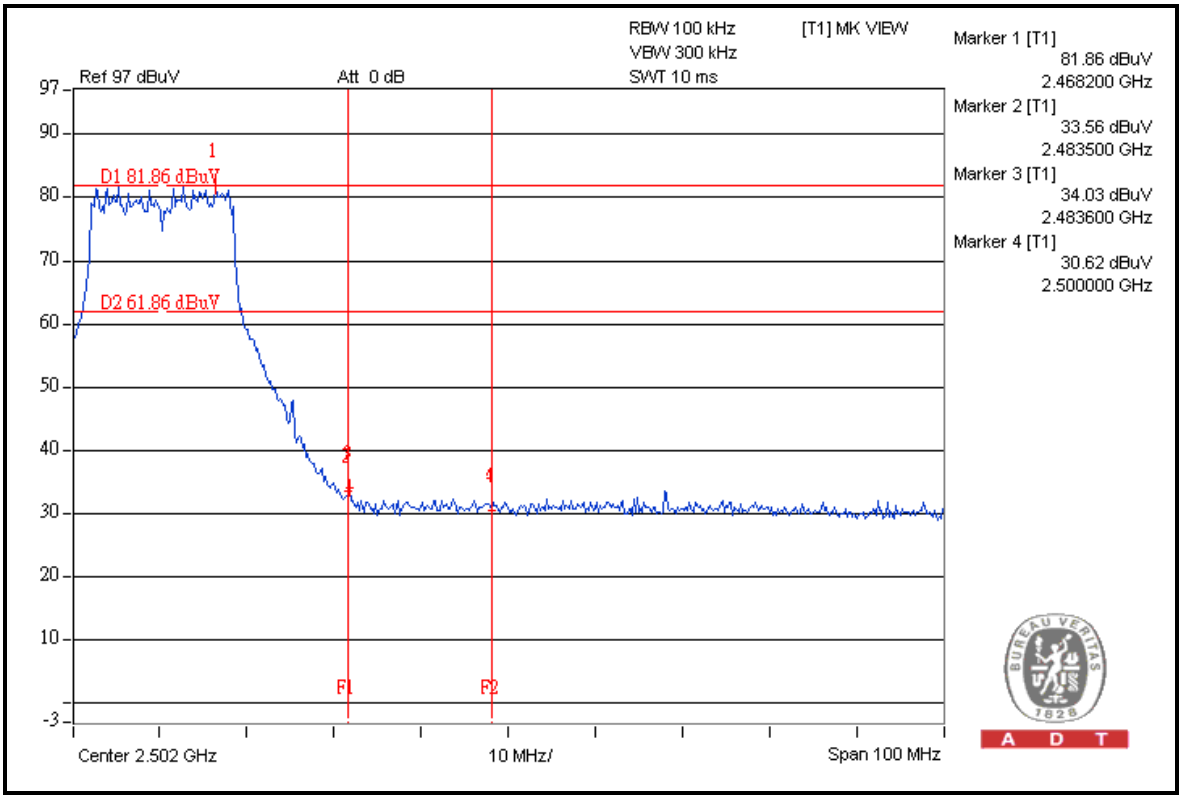
NOTE:

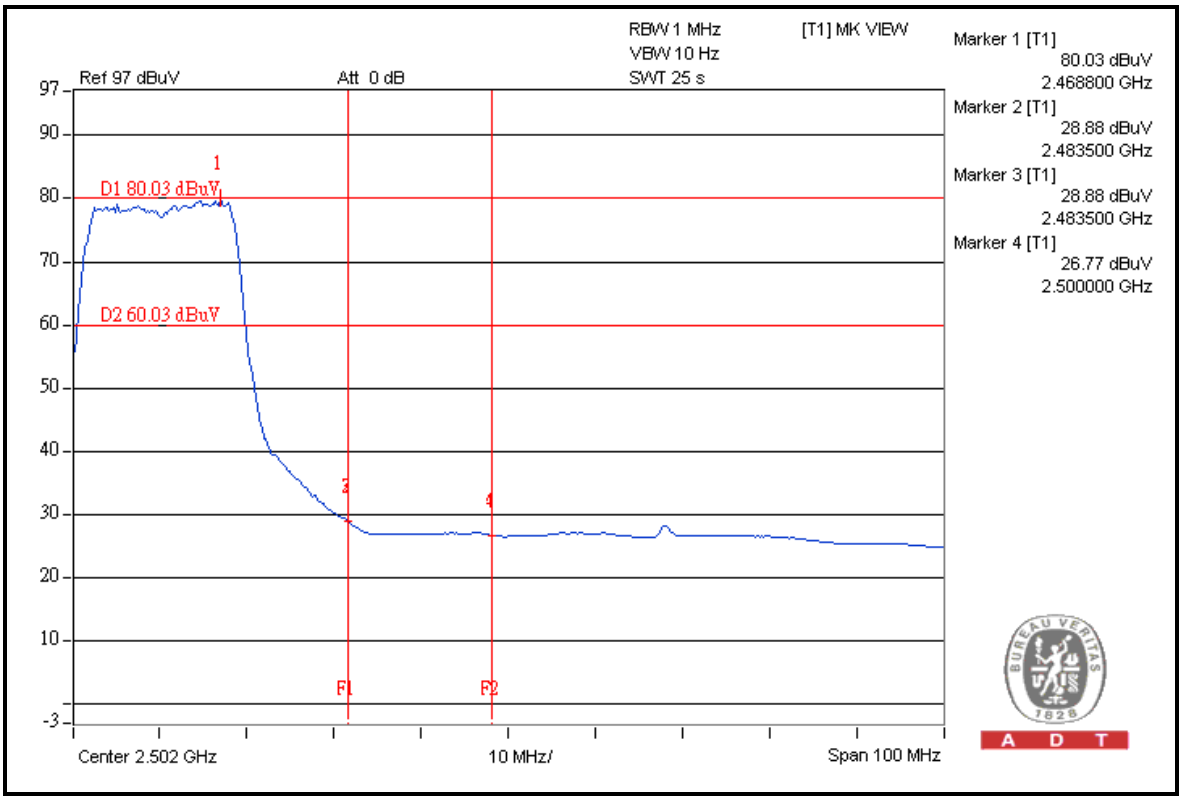
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

FOR RADIATED MEASURED (TWO CHAINS ON)



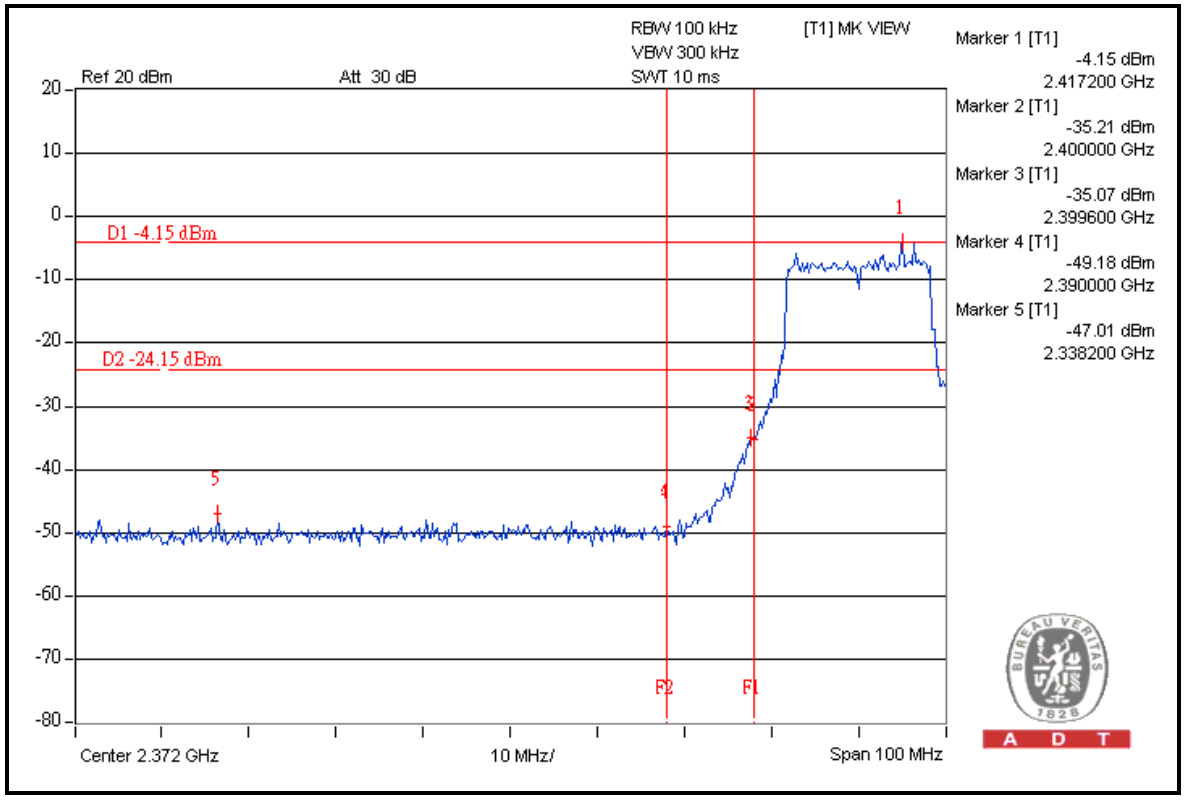


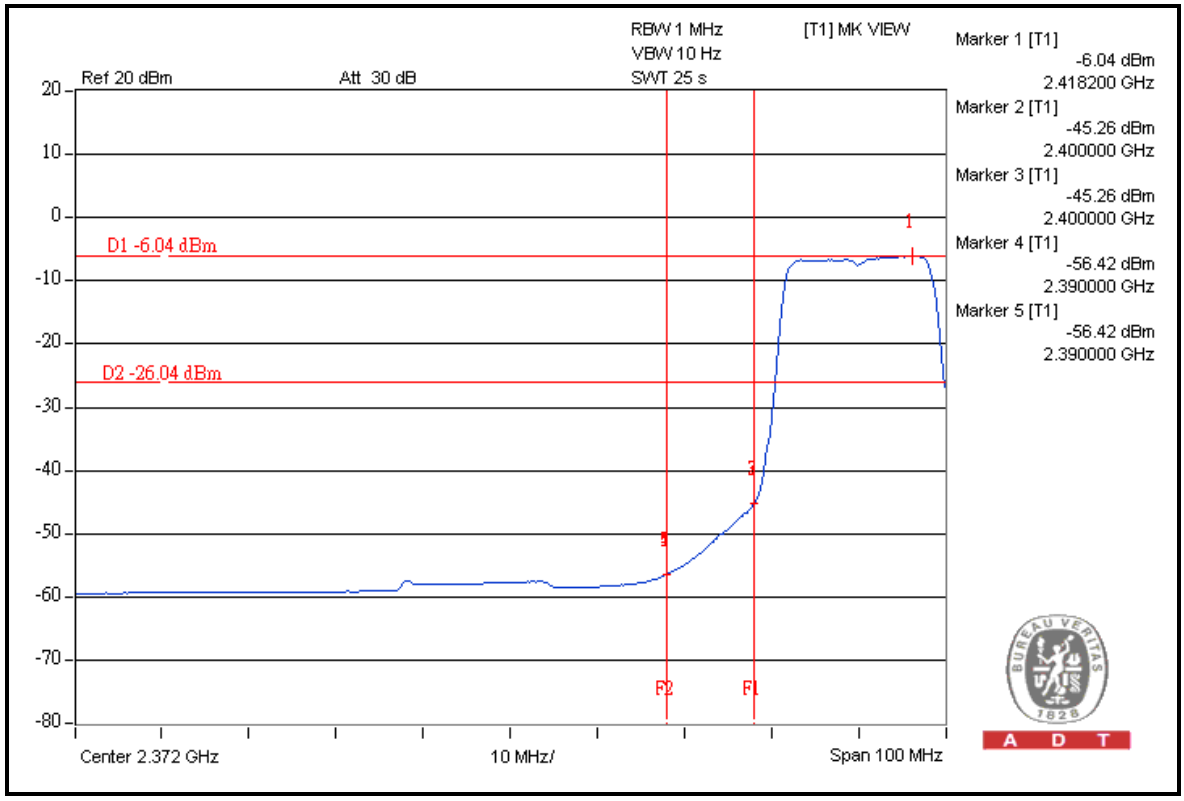

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 81.86 dBuV
D2 61.86 dBuV
Marker 1 [T1]
81.86 dBuV
2.468200 GHz
Marker 2 [T1]
33.56 dBuV
2.483500 GHz
Marker 3 [T1]
34.03 dBuV
2.483600 GHz
Marker 4 [T1]
30.62 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

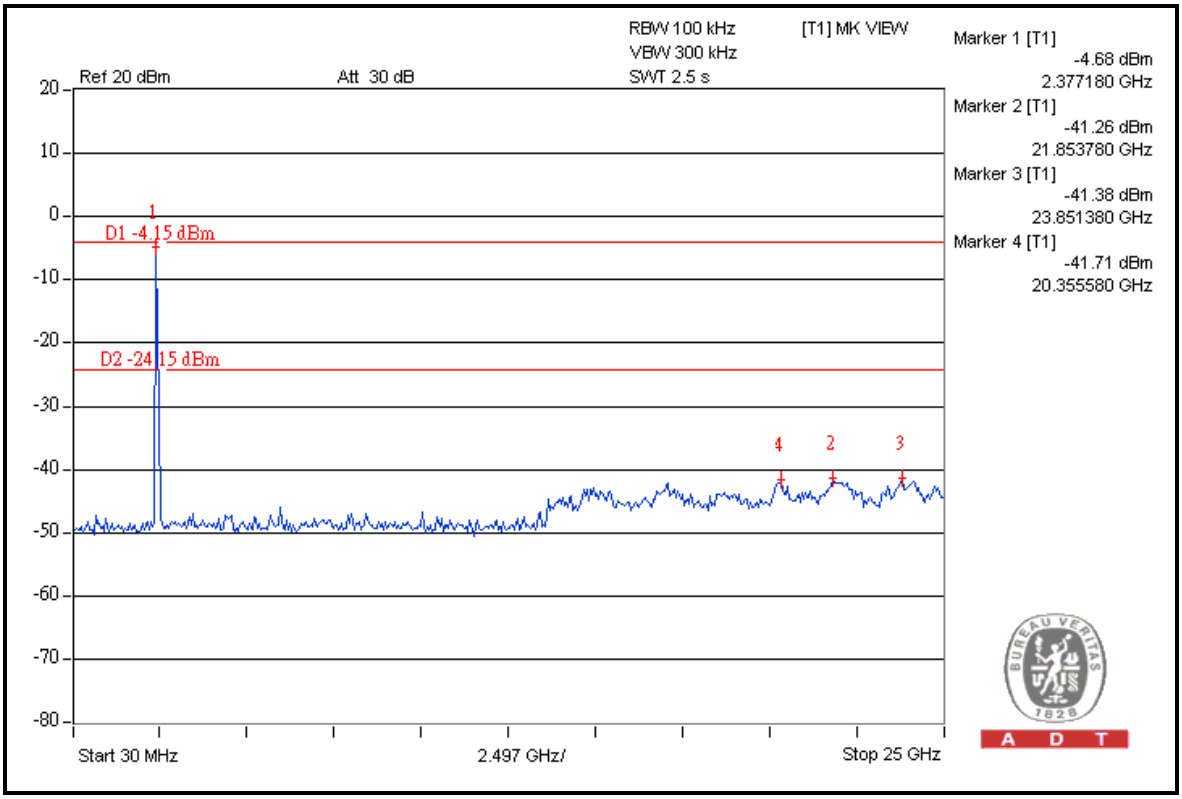

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 80.03 dBuV
D2 60.03 dBuV
Marker 1 [T1]
80.03 dBuV
2.468800 GHz
Marker 2 [T1]
28.88 dBuV
2.483500 GHz
Marker 3 [T1]
28.88 dBuV
2.483500 GHz
Marker 4 [T1]
26.77 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

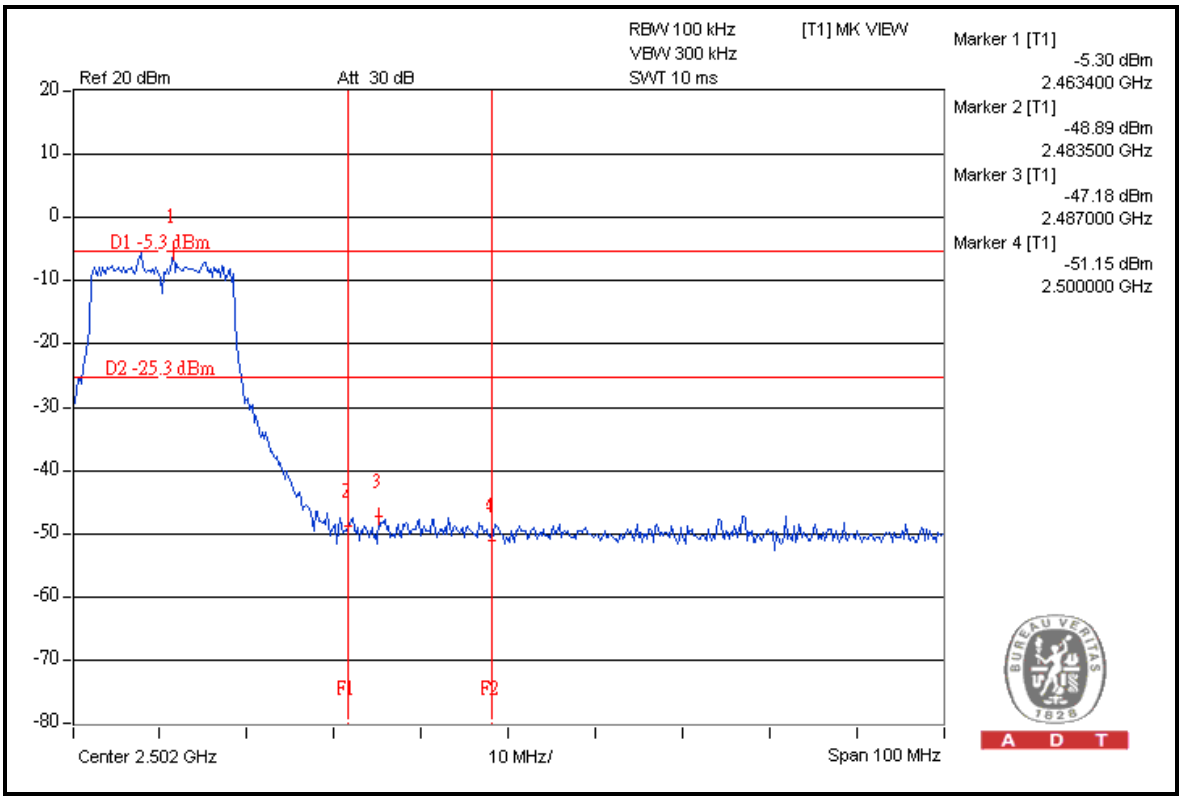
FOR CONDUCTED MEASURED

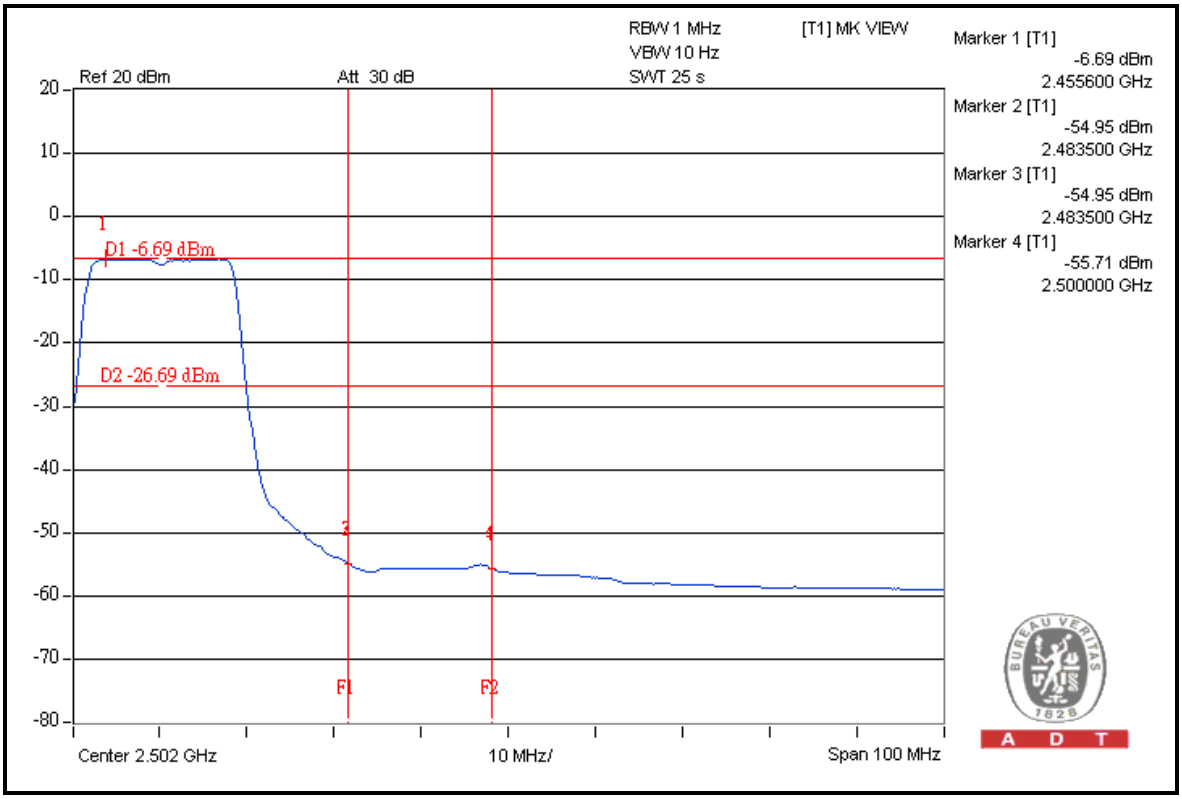
CHAIN 0

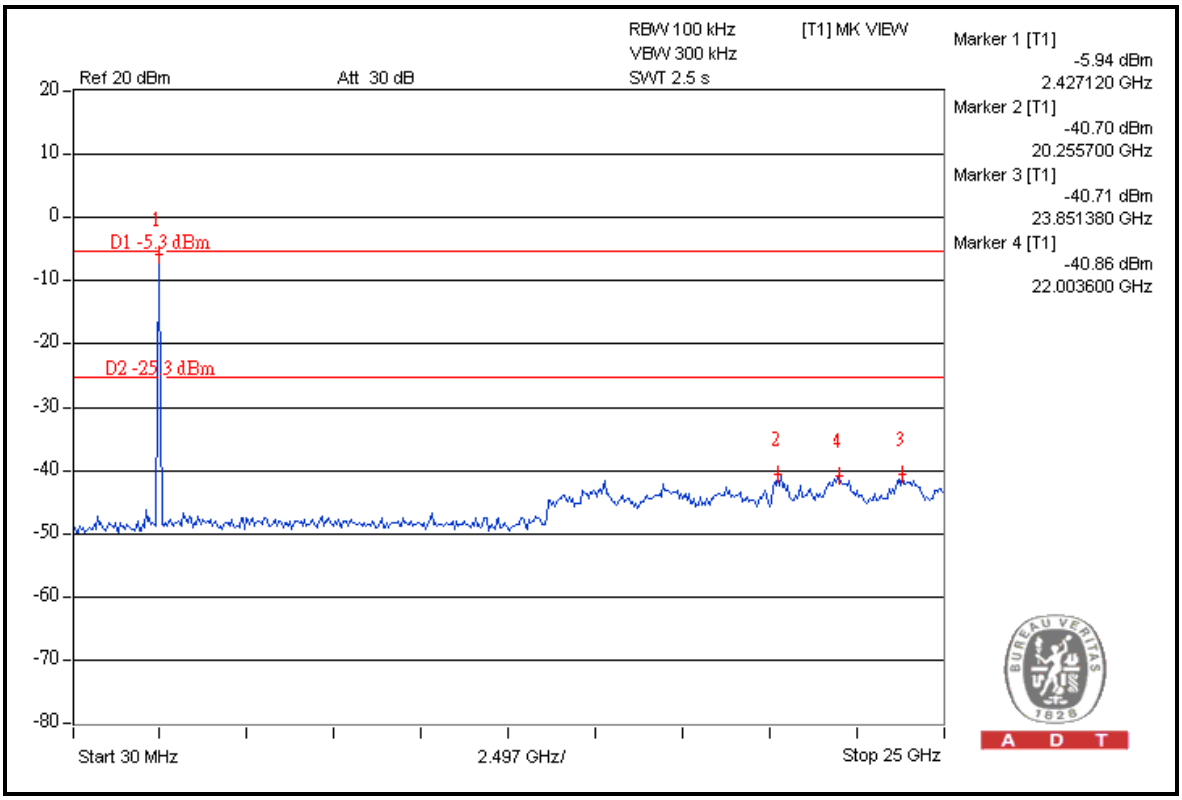




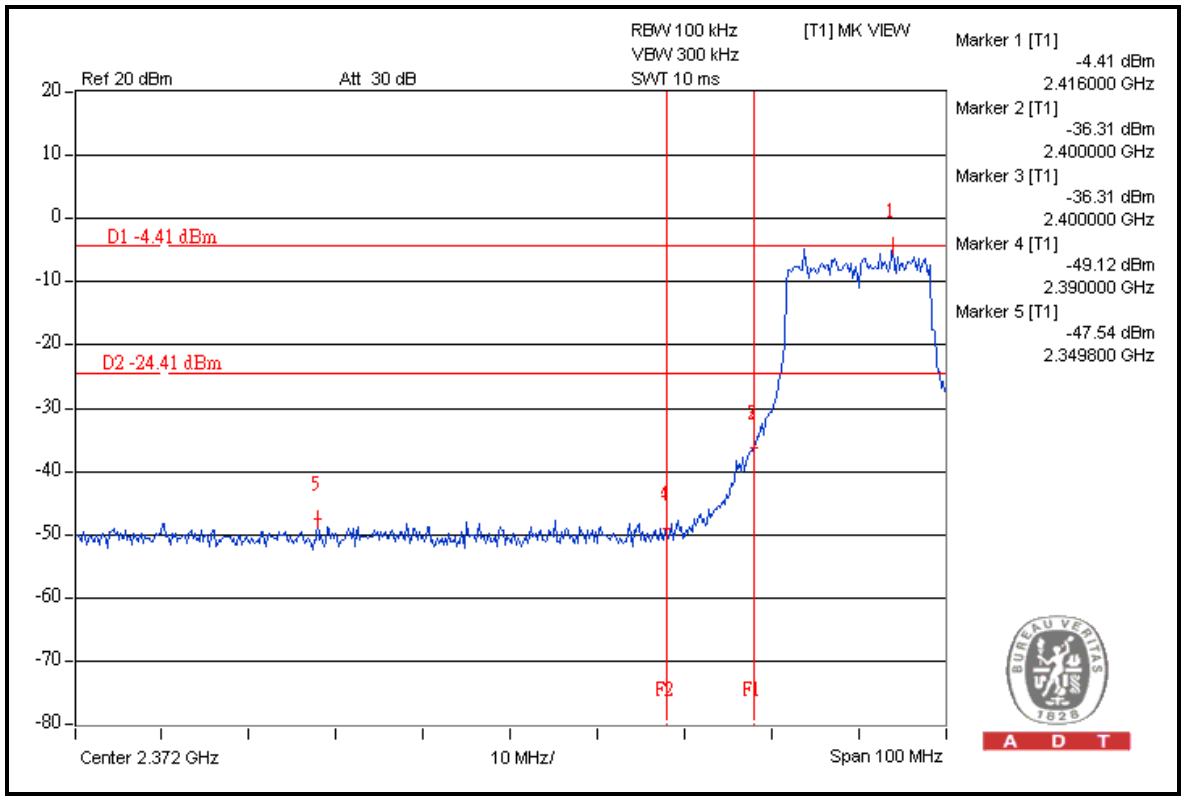

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-4.68 dBm
2.377180 GHz
Marker 2 [T1]
-41.26 dBm
21.853780 GHz
Marker 3 [T1]
-41.38 dBm
23.851380 GHz
Marker 4 [T1]
-41.71 dBm
20.355580 GHz
D1 -4.15 dBm
D2 -24.15 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 30 MHz
2.497 GHz/
Stop 25 GHz

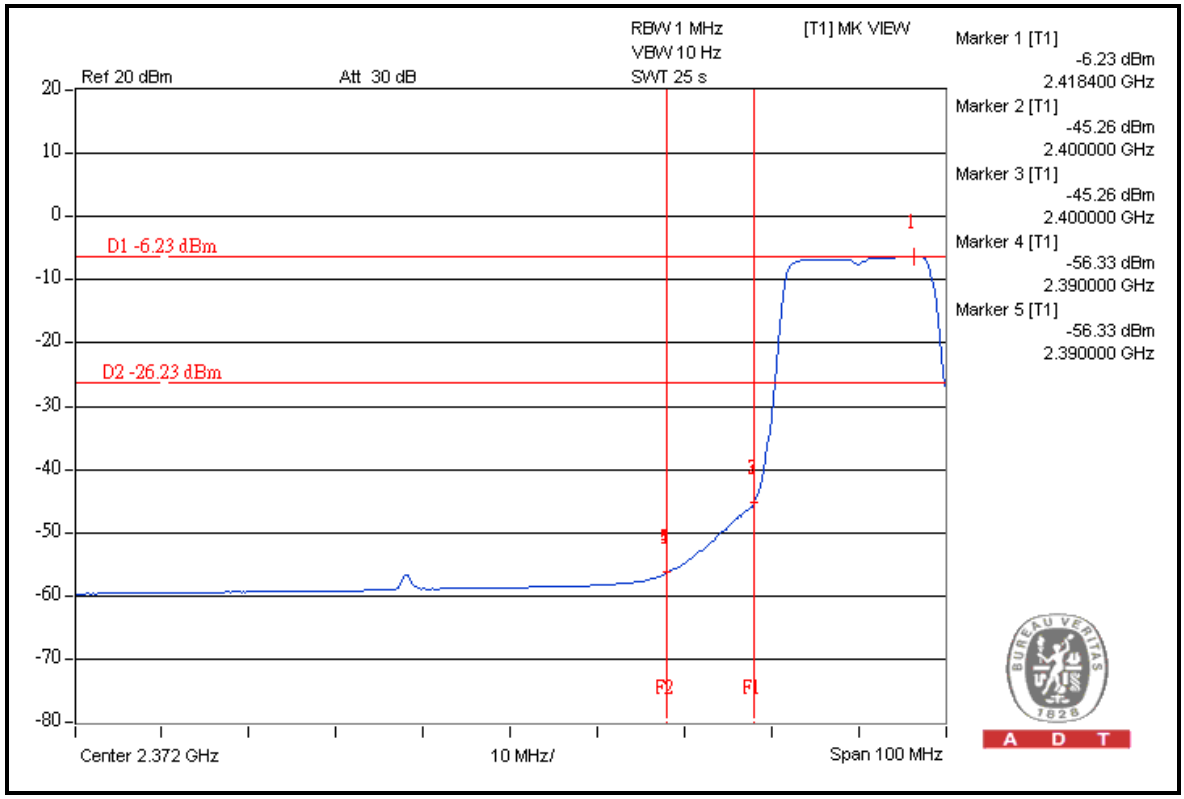

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.30 dBm
2.463400 GHz
Marker 2 [T1]
-48.89 dBm
2.483500 GHz
Marker 3 [T1]
-47.18 dBm
2.487000 GHz
Marker 4 [T1]
-51.15 dBm
2.500000 GHz
D1 -5.3 dBm
D2 -25.3 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

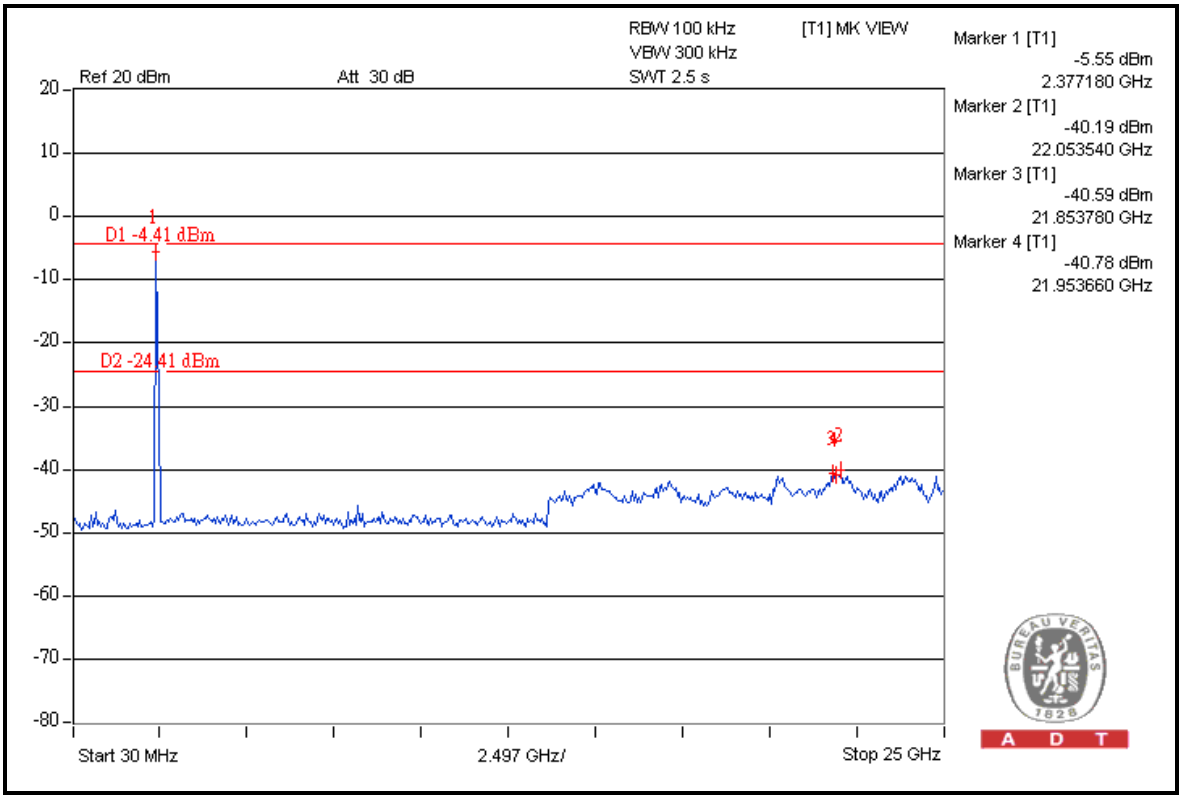

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.69 dBm
2.455600 GHz
Marker 2 [T1]
-54.95 dBm
2.483500 GHz
Marker 3 [T1]
-54.95 dBm
2.483500 GHz
Marker 4 [T1]
-55.71 dBm
2.500000 GHz
D1 -6.69 dBm
D2 -26.69 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

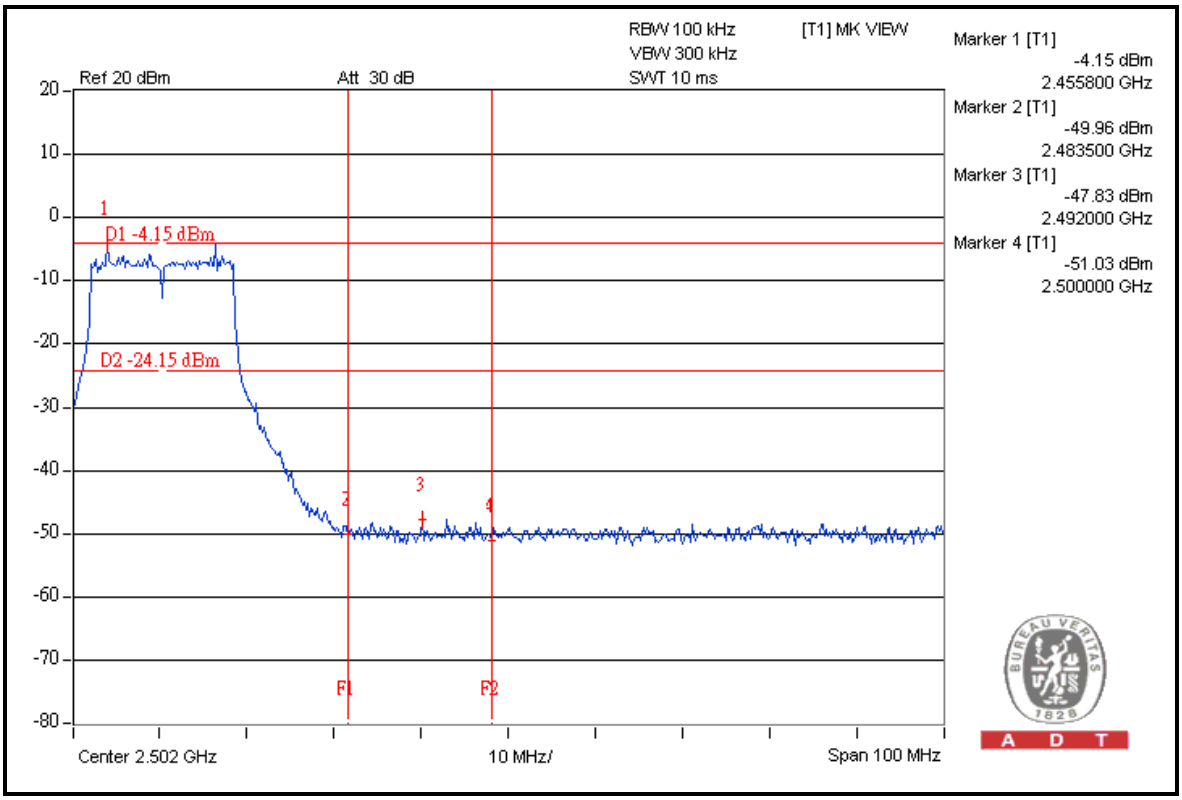

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.94 dBm
2.427120 GHz
Marker 2 [T1]
-40.70 dBm
20.255700 GHz
Marker 3 [T1]
-40.71 dBm
23.851380 GHz
Marker 4 [T1]
-40.86 dBm
22.003600 GHz
D1 -5.3 dBm
D2 -25.3 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

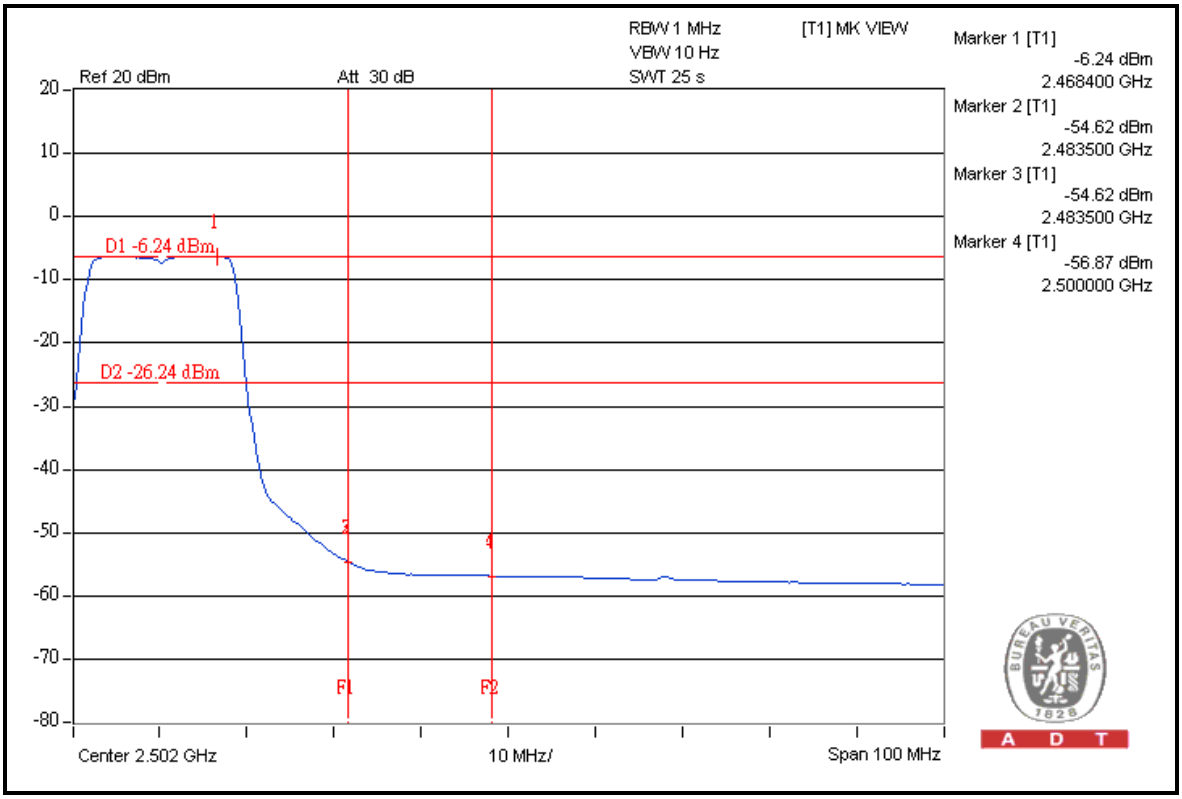
CHAIN 1

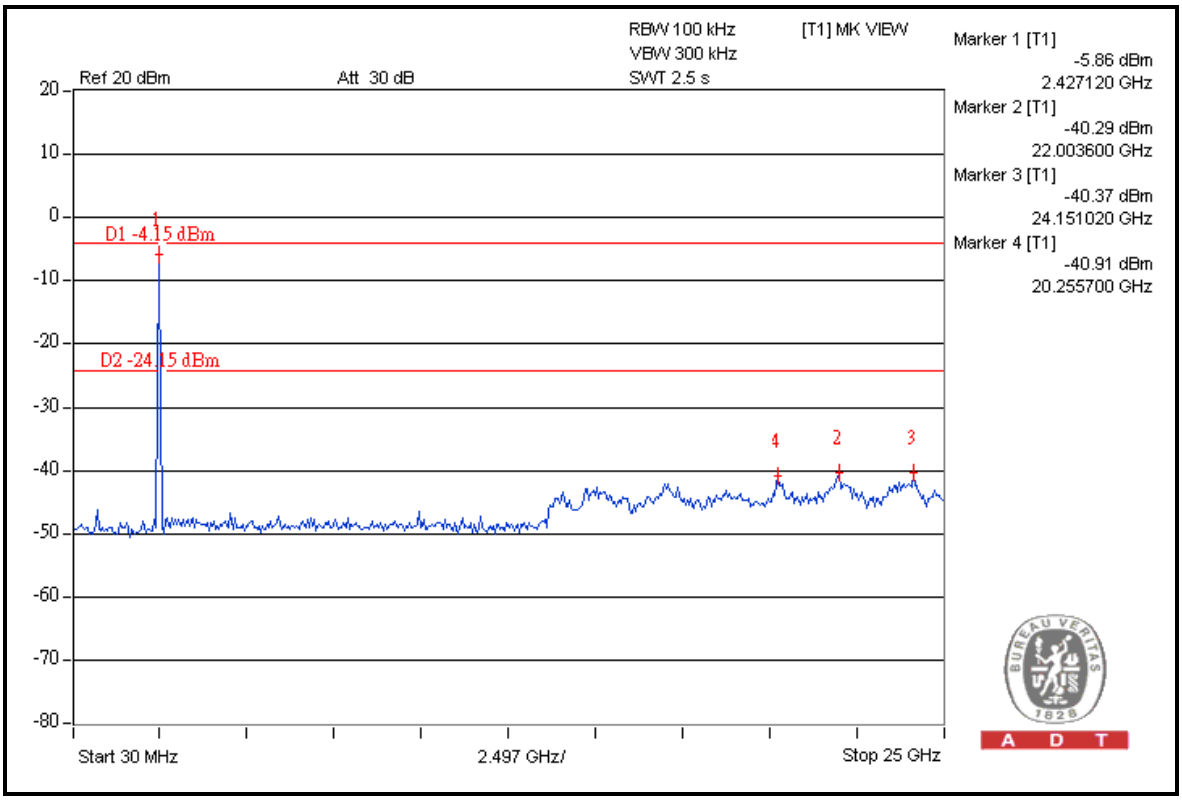

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-4.41 dBm
2.416000 GHz
Marker 2 [T1]
-36.31 dBm
2.400000 GHz
Marker 3 [T1]
-36.31 dBm
2.400000 GHz
Marker 4 [T1]
-49.12 dBm
2.390000 GHz
Marker 5 [T1]
-47.54 dBm
2.349800 GHz
D1 -4.41 dBm
D2 -24.41 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.23 dBm
2.418400 GHz
Marker 2 [T1]
-45.26 dBm
2.400000 GHz
Marker 3 [T1]
-45.26 dBm
2.400000 GHz
Marker 4 [T1]
-56.33 dBm
2.390000 GHz
Marker 5 [T1]
-56.33 dBm
2.390000 GHz
D1 -6.23 dBm
D2 -26.23 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.55 dBm
2.377180 GHz
Marker 2 [T1]
-40.19 dBm
22.053540 GHz
Marker 3 [T1]
-40.59 dBm
21.853780 GHz
Marker 4 [T1]
-40.78 dBm
21.953660 GHz
D1 -4.41 dBm
D2 -24.41 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-4.15 dBm
2.455800 GHz
Marker 2 [T1]
-49.96 dBm
2.483500 GHz
Marker 3 [T1]
-47.83 dBm
2.492000 GHz
Marker 4 [T1]
-51.03 dBm
2.500000 GHz
D1 -4.15 dBm
D2 -24.15 dBm
F1
F2
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.24 dBm
2.468400 GHz
Marker 2 [T1]
-54.62 dBm
2.483500 GHz
Marker 3 [T1]
-54.62 dBm
2.483500 GHz
Marker 4 [T1]
-56.87 dBm
2.500000 GHz
D1 -6.24 dBm
D2 -26.24 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.86 dBm
2.427120 GHz
Marker 2 [T1]
-40.29 dBm
22.003600 GHz
Marker 3 [T1]
-40.37 dBm
24.151020 GHz
Marker 4 [T1]
-40.91 dBm
20.255700 GHz
D1 -4.15 dBm
D2 -24.15 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11n (20MHz)

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2412.00 (PK)	111.6	48.3	63.3	74.0
2412.00 (AV)	99.1	51.4	47.7	54.0

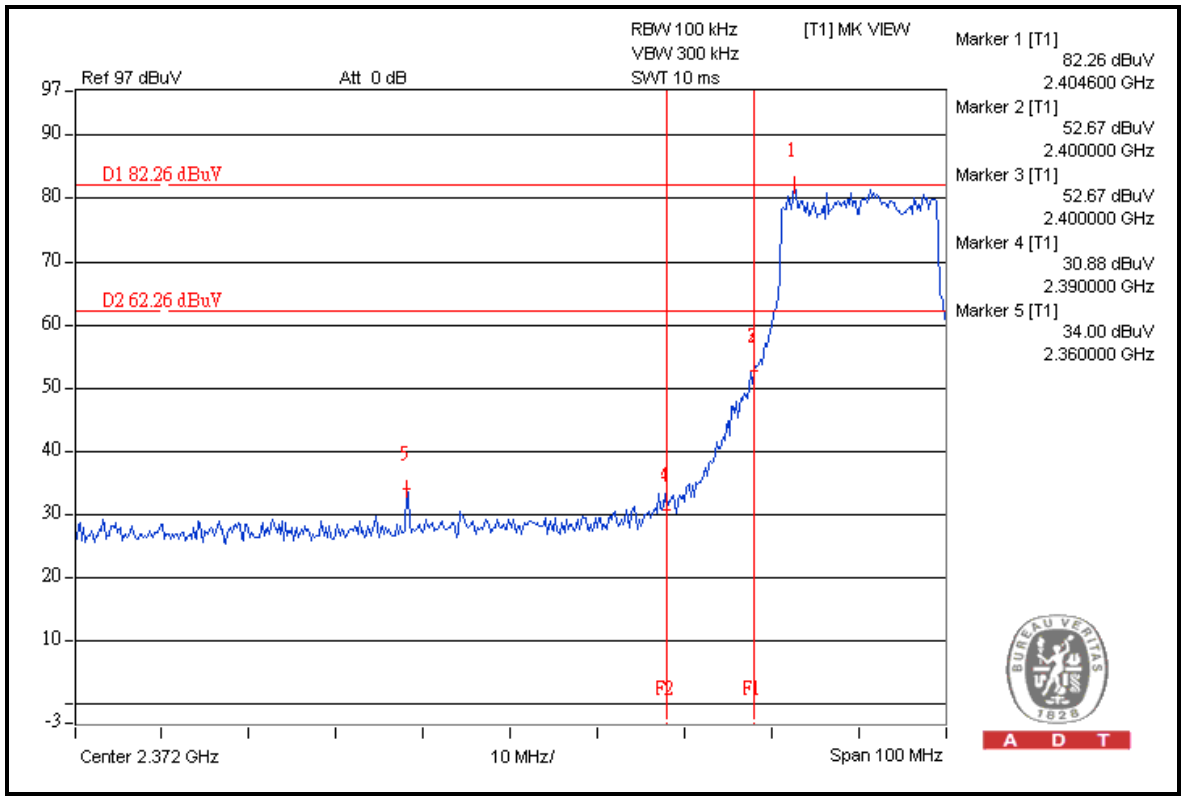
RESTRICT BAND (2483.5 ~ 2500 MHz)

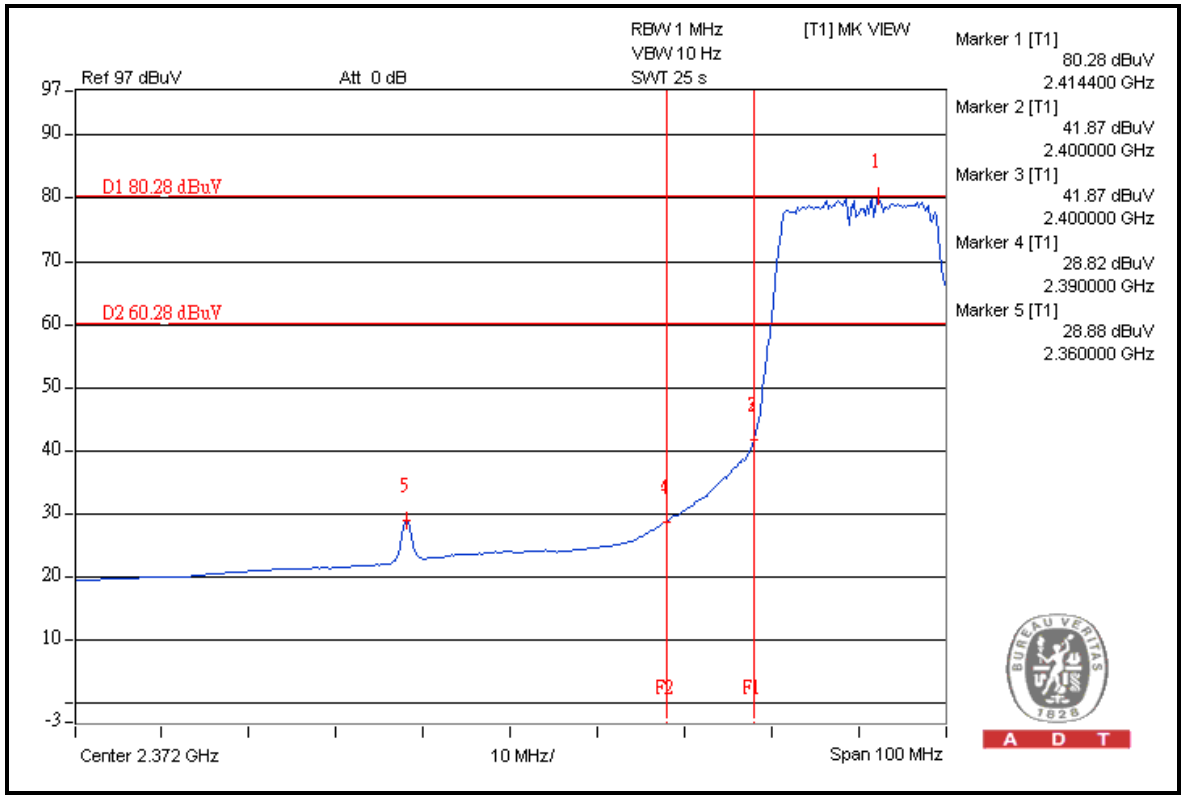
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2462.00 (PK)	109.3	48.9	60.4	74.0
2462.00 (AV)	96.9	50.5	46.4	54.0

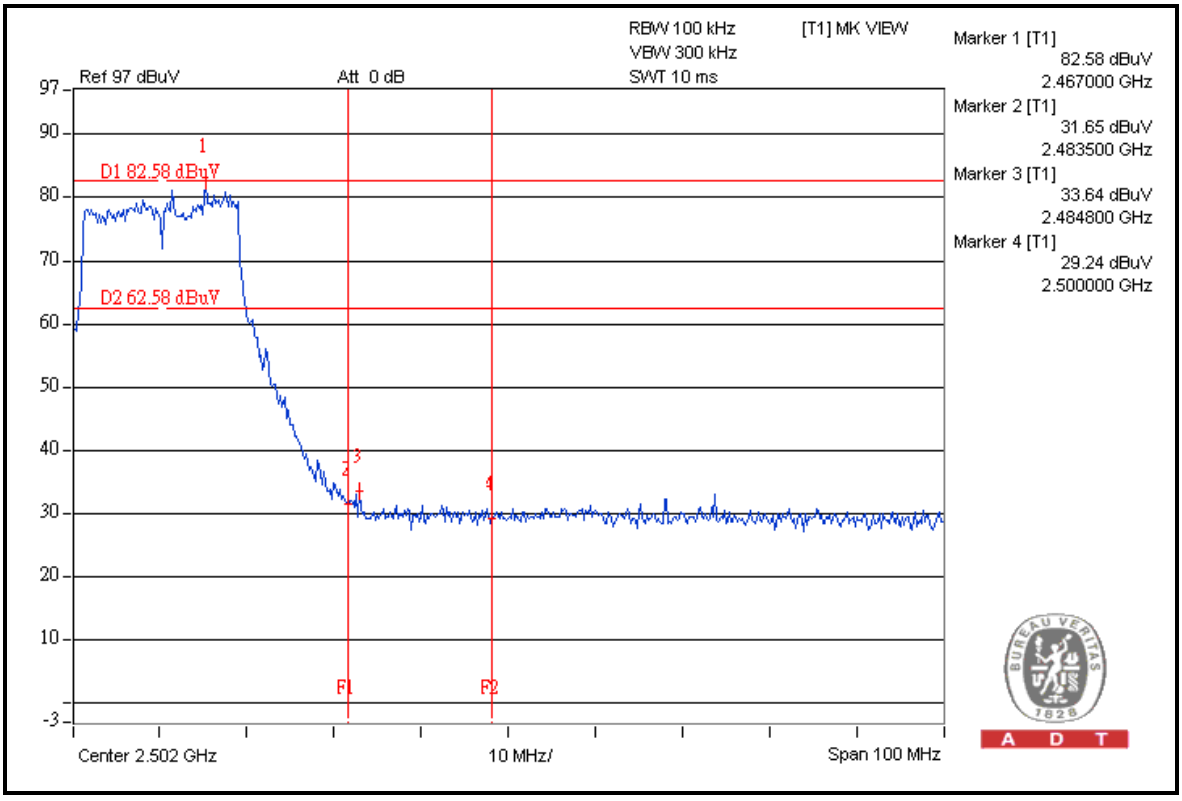
NOTE:

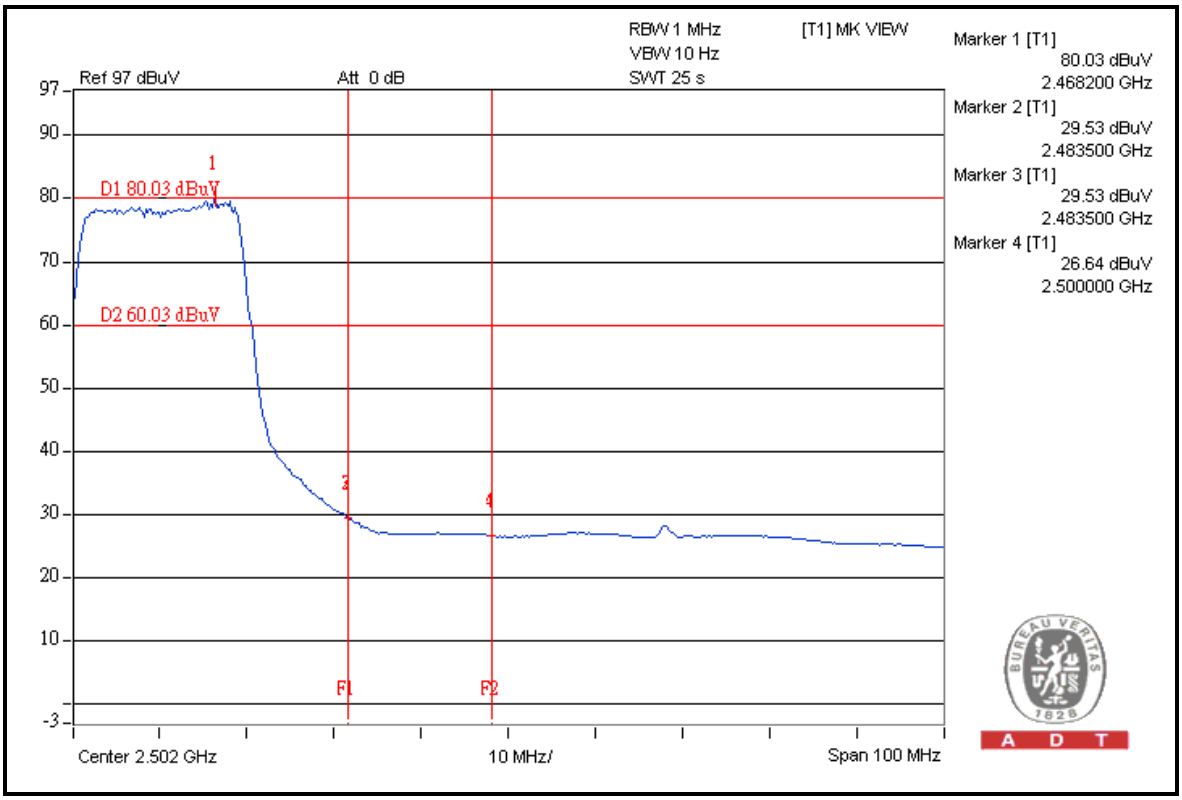
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

FOR RADIATED MEASURED (TWO CHAINS ON)



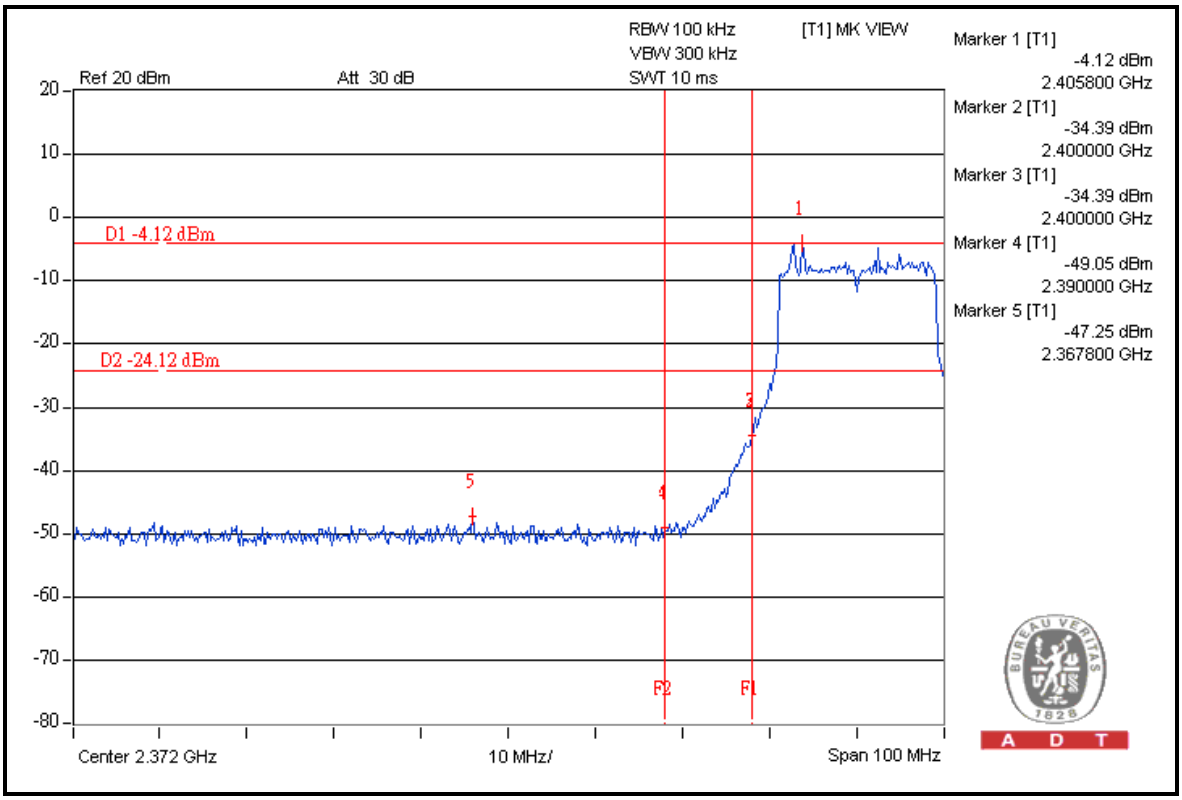


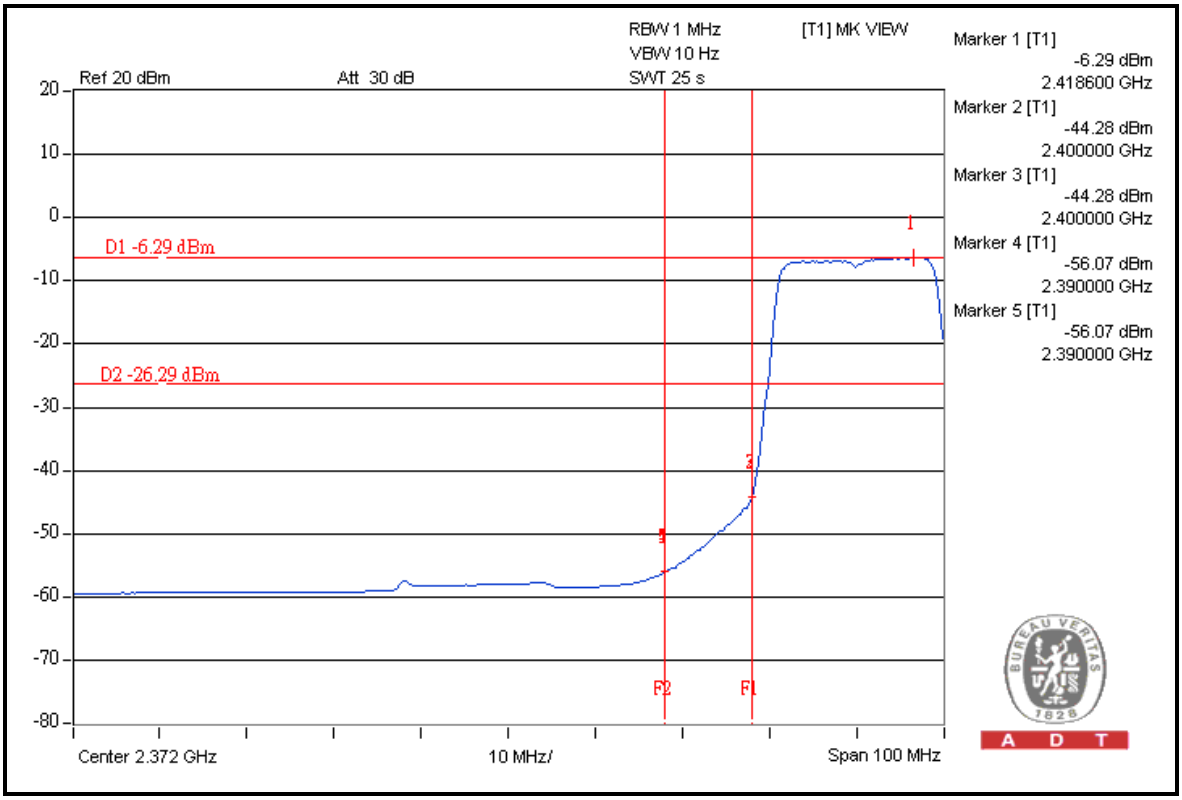

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 82.58 dBuV
D2 62.58 dBuV
Marker 1 [T1]
82.58 dBuV
2.467000 GHz
Marker 2 [T1]
31.65 dBuV
2.483500 GHz
Marker 3 [T1]
33.64 dBuV
2.484800 GHz
Marker 4 [T1]
29.24 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

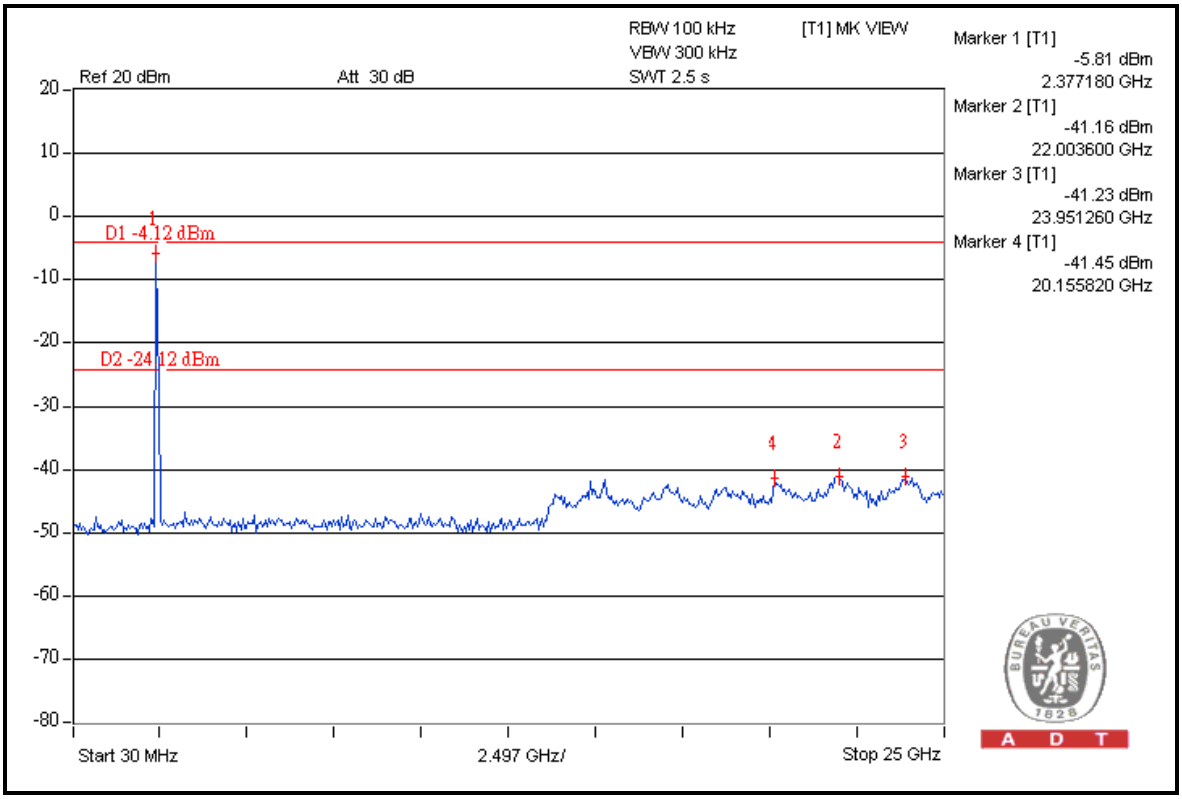

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 80.03 dBuV
D2 60.03 dBuV
Marker 1 [T1]
80.03 dBuV
2.468200 GHz
Marker 2 [T1]
29.53 dBuV
2.483500 GHz
Marker 3 [T1]
29.53 dBuV
2.483500 GHz
Marker 4 [T1]
26.64 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz

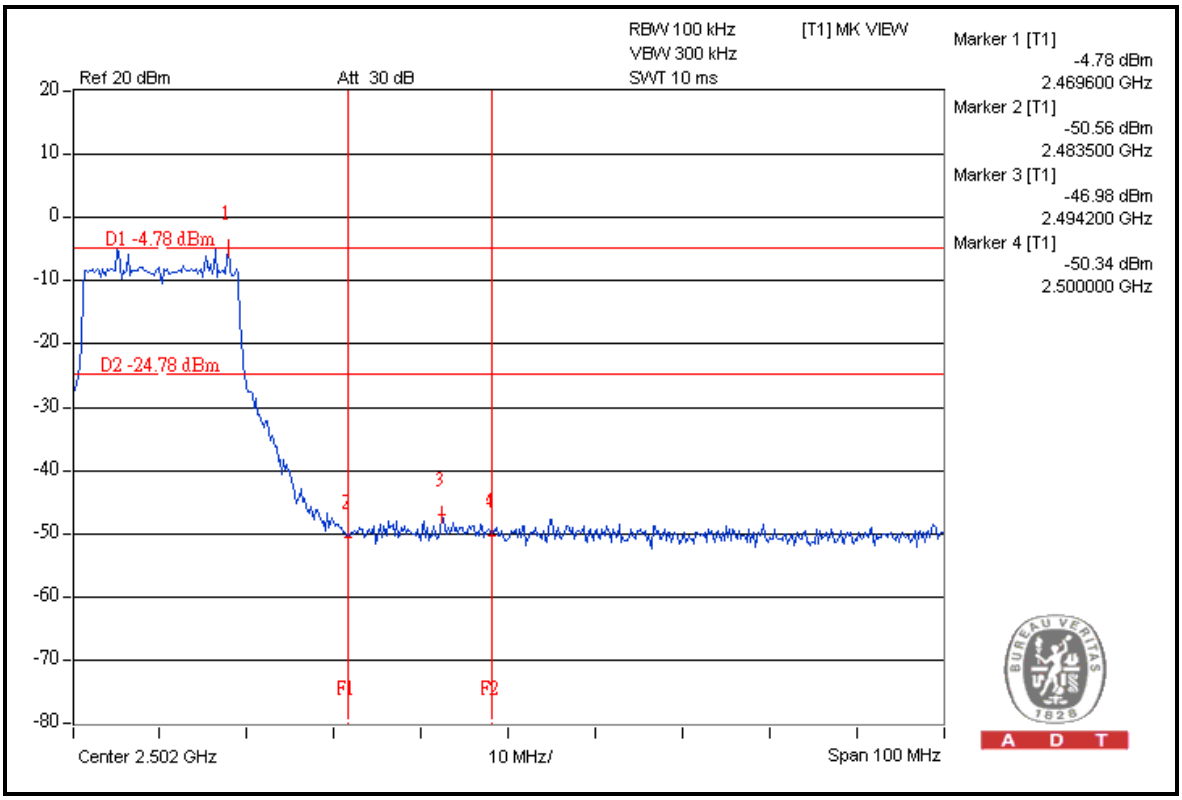
FOR CONDUCTED MEASURED

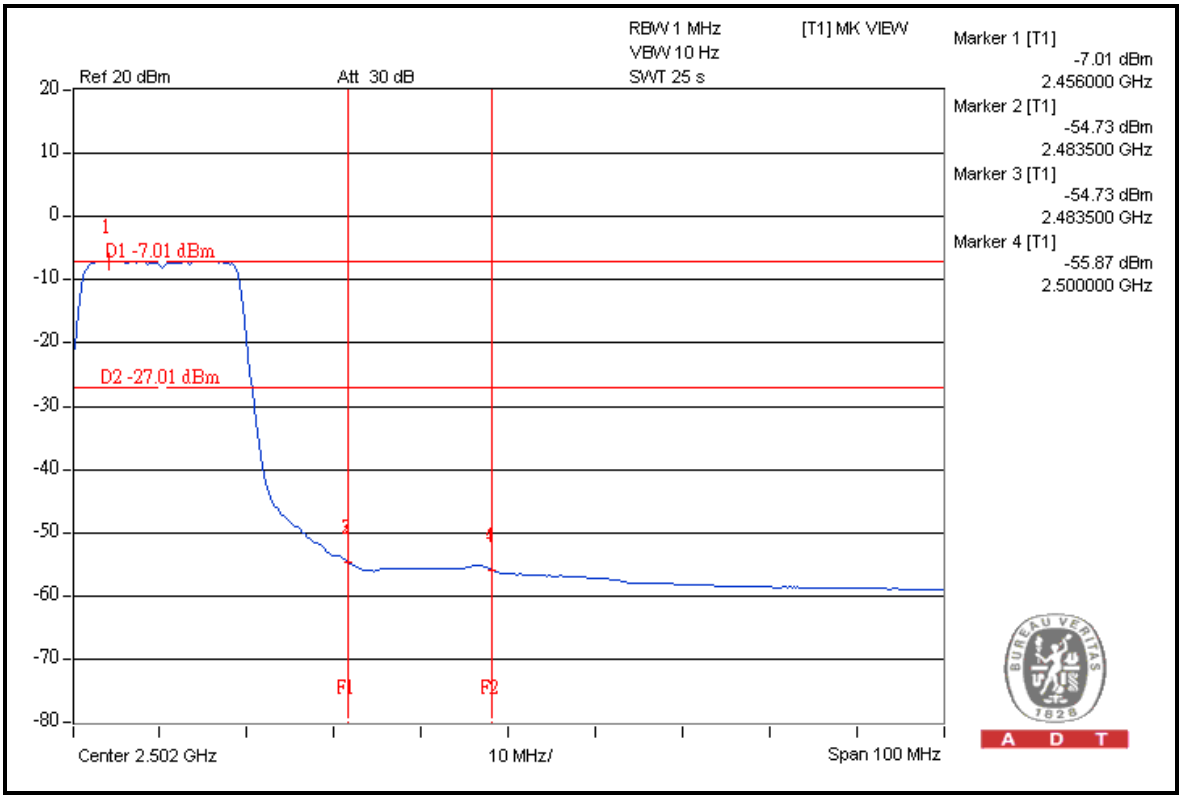
CHAIN 0

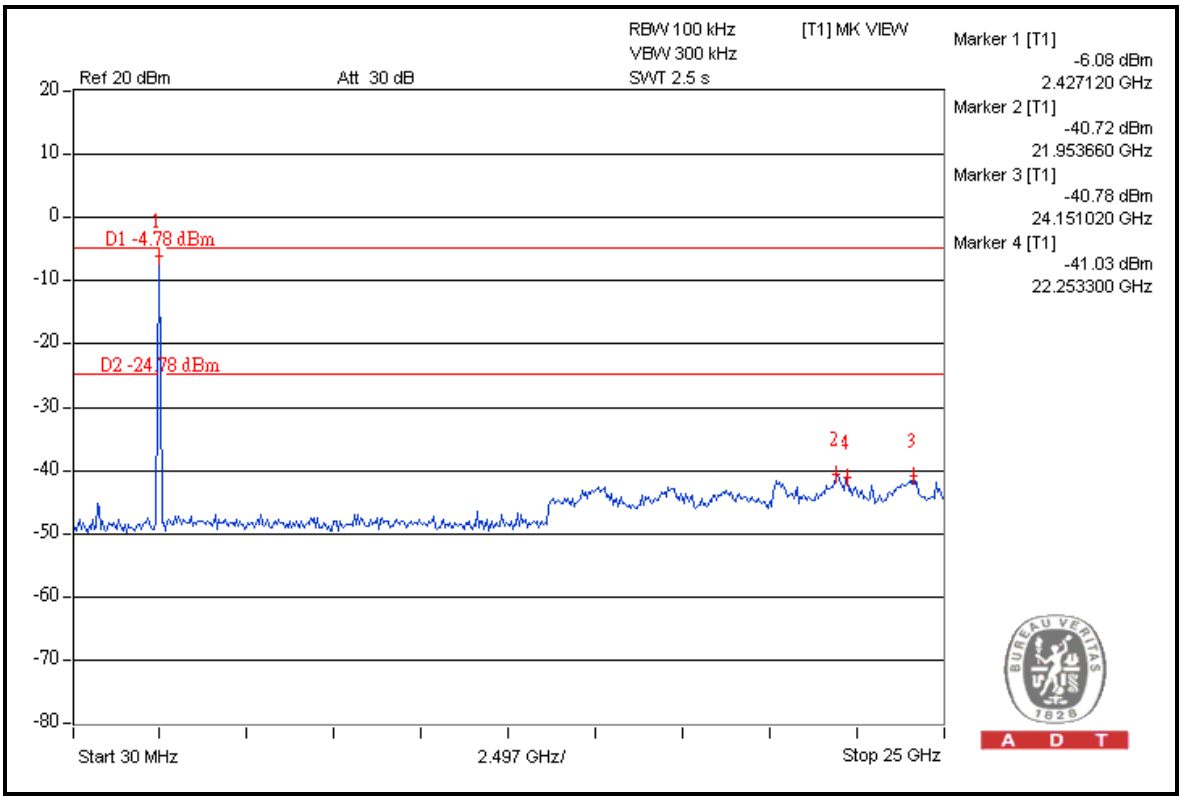




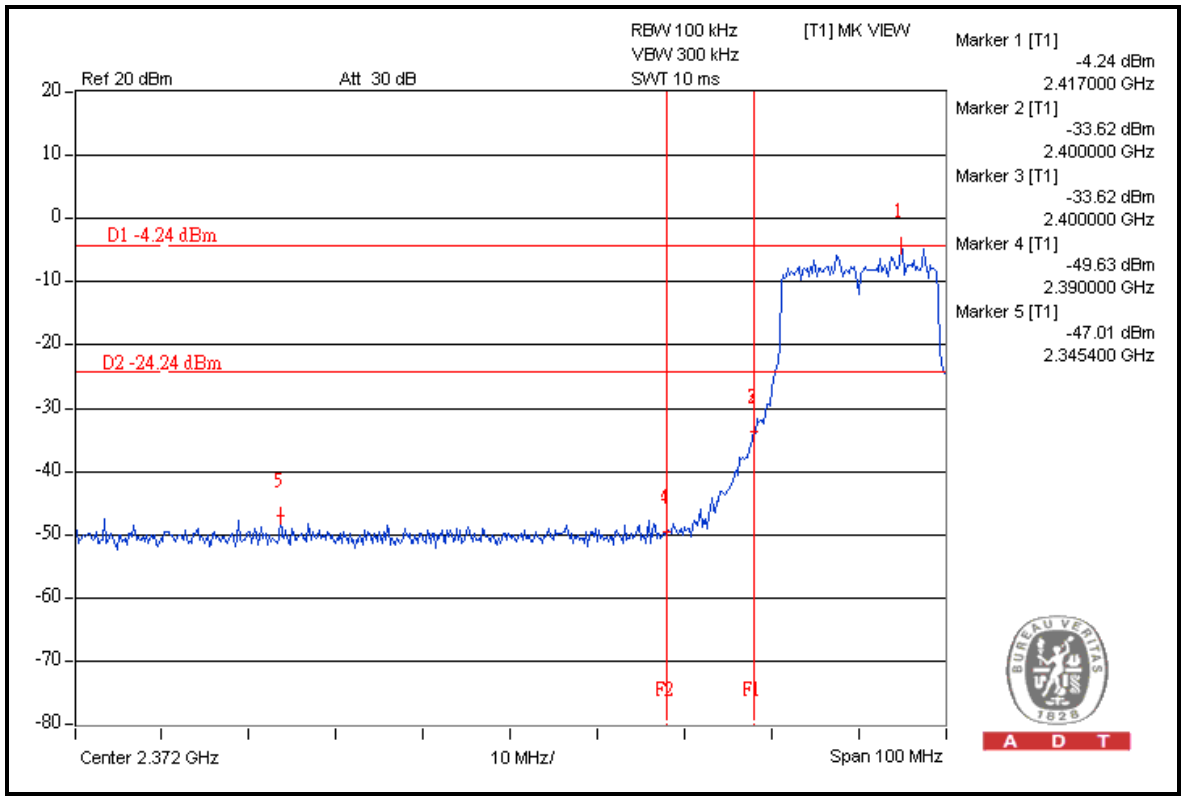

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.81 dBm
2.377180 GHz
Marker 2 [T1]
-41.16 dBm
22.003600 GHz
Marker 3 [T1]
-41.23 dBm
23.951260 GHz
Marker 4 [T1]
-41.45 dBm
20.155820 GHz
D1 -4.12 dBm
D2 -24.12 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

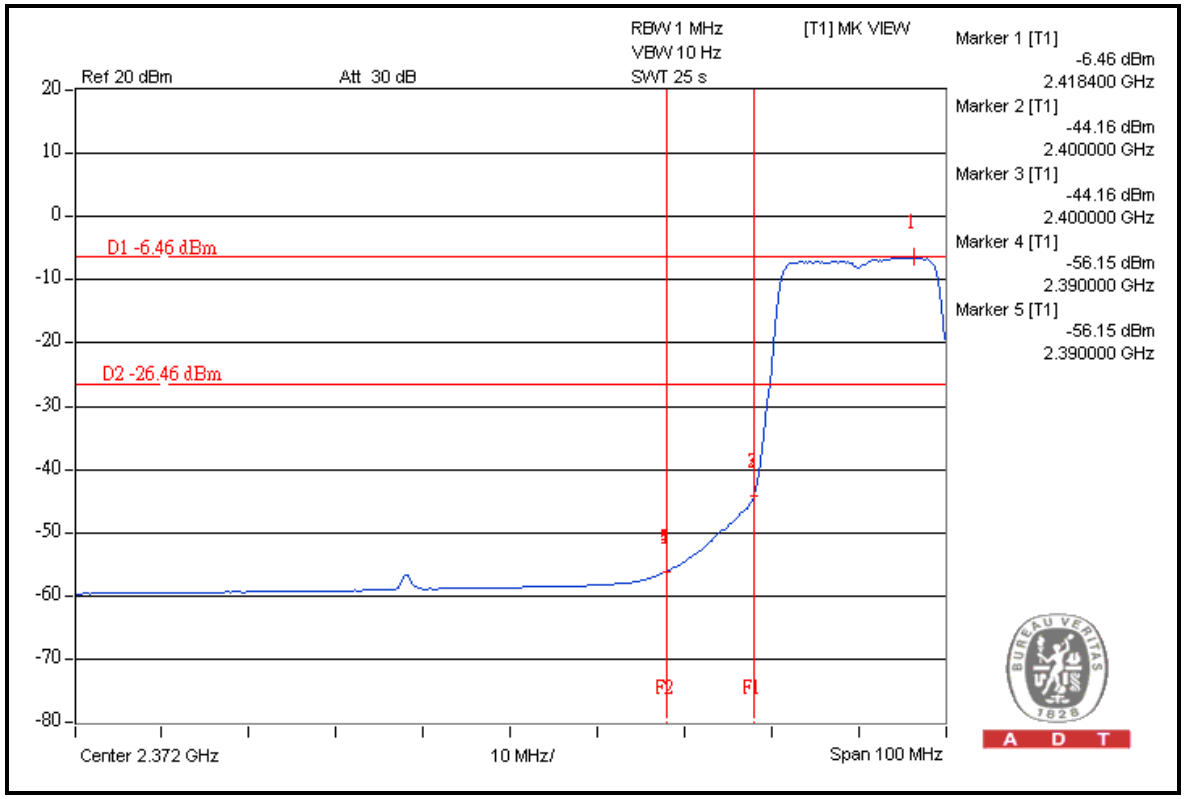

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-4.78 dBm
2.469600 GHz
Marker 2 [T1]
-50.56 dBm
2.483500 GHz
Marker 3 [T1]
-46.98 dBm
2.494200 GHz
Marker 4 [T1]
-50.34 dBm
2.500000 GHz
D1 -4.78 dBm
D2 -24.78 dBm
Center 2.502 GHz
10 MHz/
Span 100 MHz

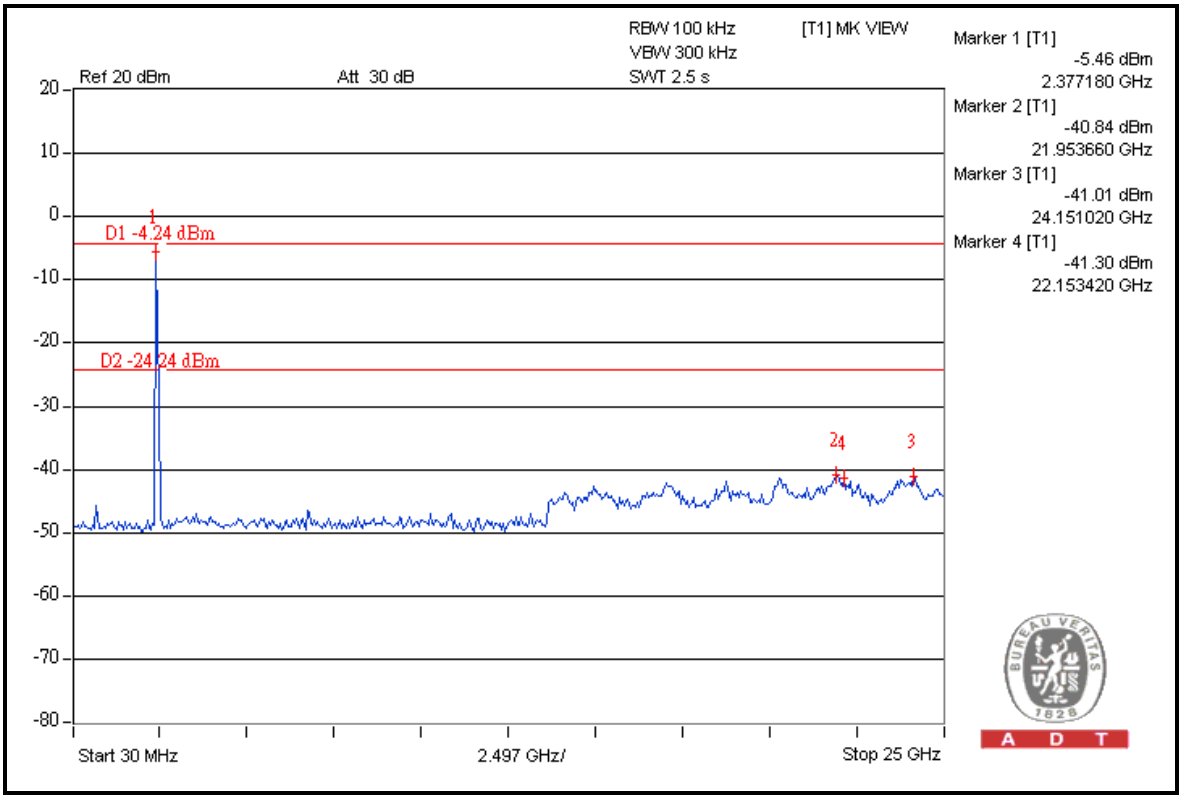

RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-7.01 dBm
2.456000 GHz
Marker 2 [T1]
-54.73 dBm
2.483500 GHz
Marker 3 [T1]
-54.73 dBm
2.483500 GHz
Marker 4 [T1]
-55.87 dBm
2.500000 GHz
D1 -7.01 dBm
D2 -27.01 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

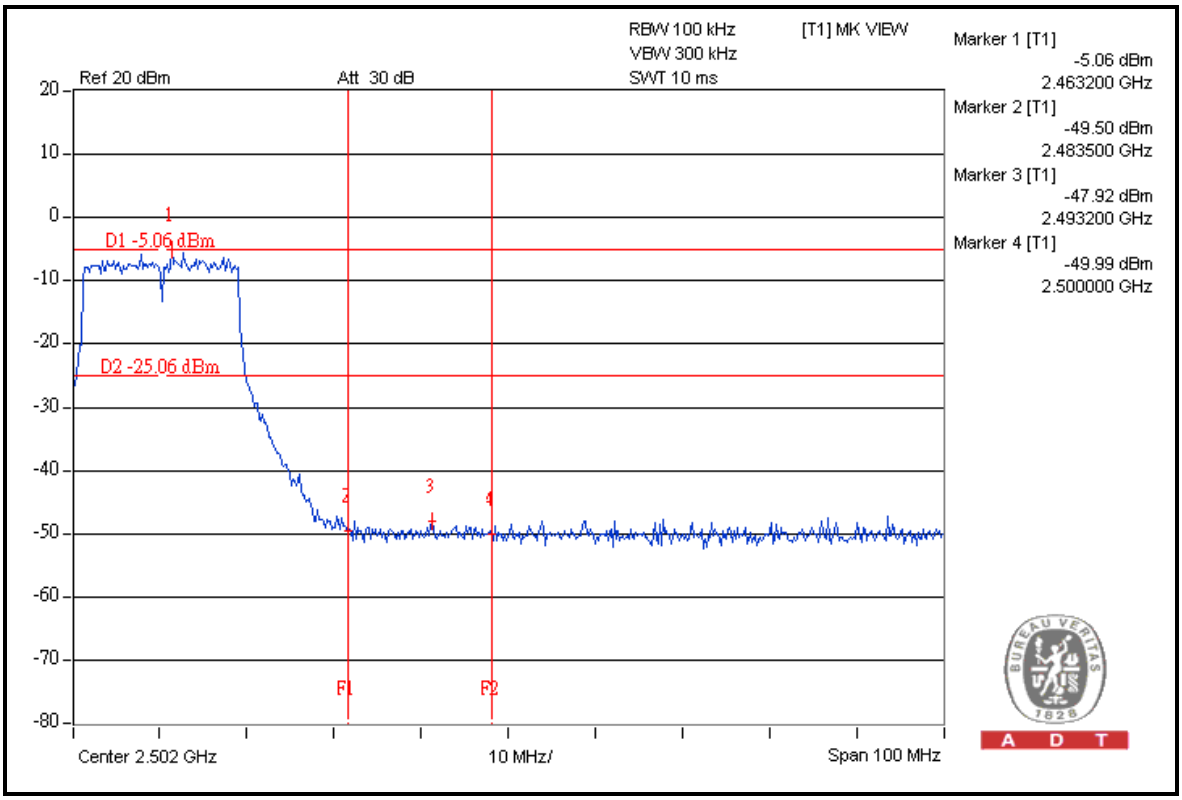

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.08 dBm
2.427120 GHz
Marker 2 [T1]
-40.72 dBm
21.953660 GHz
Marker 3 [T1]
-40.78 dBm
24.151020 GHz
Marker 4 [T1]
-41.03 dBm
22.253300 GHz
D1 -4.78 dBm
D2 -24.78 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

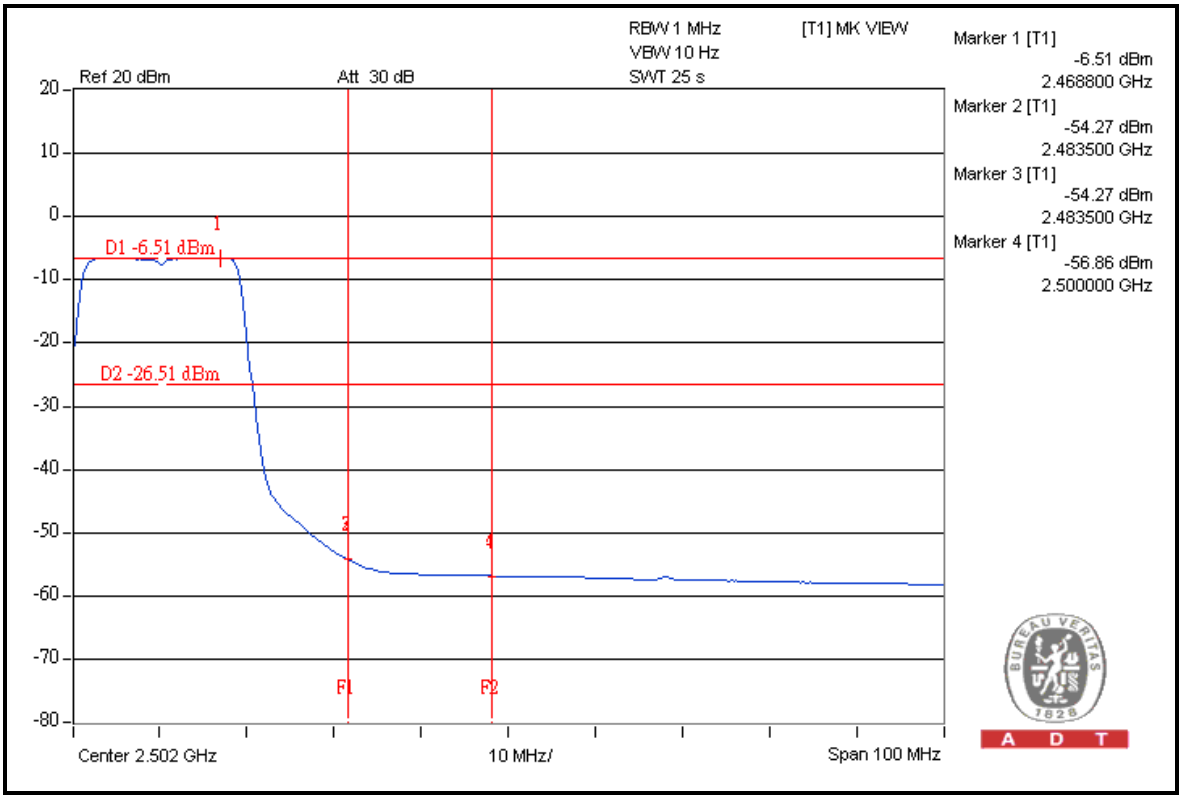
CHAIN 1

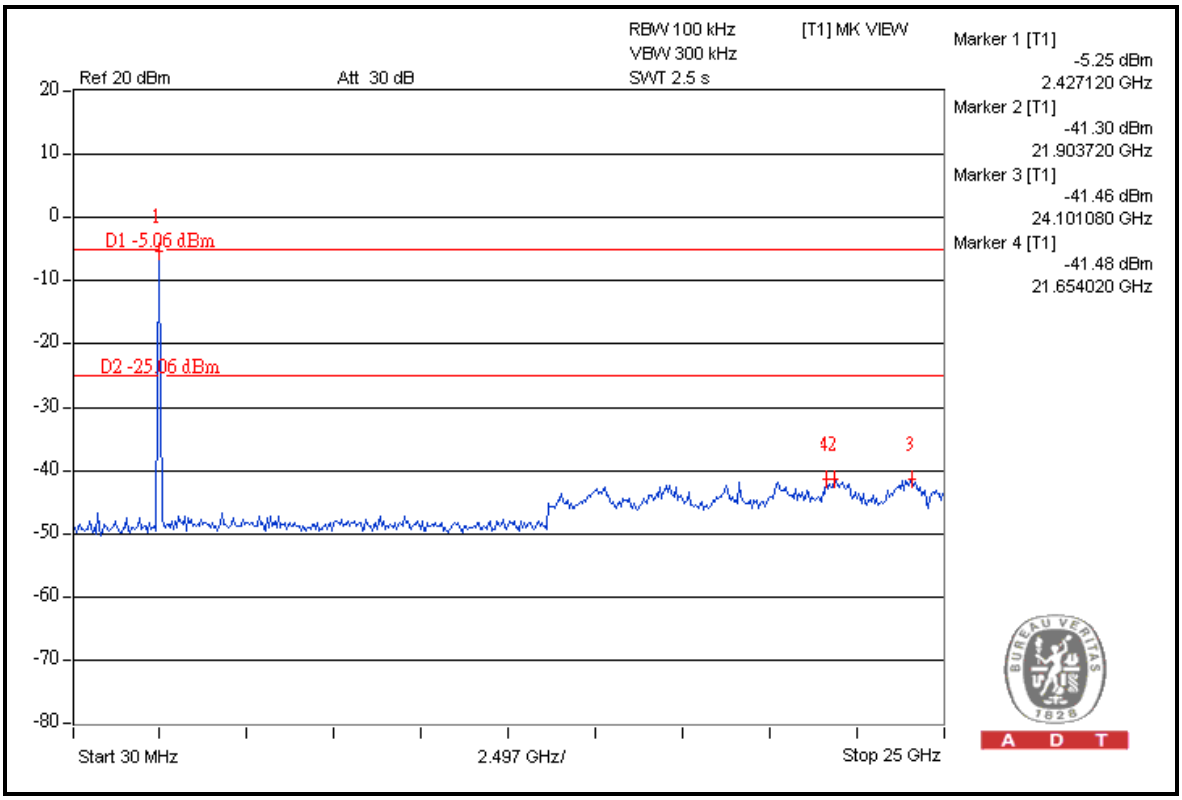

RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-4.24 dBm
2.417000 GHz
Marker 2 [T1]
-33.62 dBm
2.400000 GHz
Marker 3 [T1]
-33.62 dBm
2.400000 GHz
Marker 4 [T1]
-49.63 dBm
2.390000 GHz
Marker 5 [T1]
-47.01 dBm
2.345400 GHz
D1 -4.24 dBm
D2 -24.24 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.46 dBm
2.418400 GHz
Marker 2 [T1]
-44.16 dBm
2.400000 GHz
Marker 3 [T1]
-44.16 dBm
2.400000 GHz
Marker 4 [T1]
-56.15 dBm
2.390000 GHz
Marker 5 [T1]
-56.15 dBm
2.390000 GHz
D1 -6.46 dBm
D2 -26.46 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.46 dBm
2.377180 GHz
Marker 2 [T1]
-40.84 dBm
21.953660 GHz
Marker 3 [T1]
-41.01 dBm
24.151020 GHz
Marker 4 [T1]
-41.30 dBm
22.153420 GHz
D1 -4.24 dBm
D2 -24.24 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.06 dBm
2.463200 GHz
Marker 2 [T1]
-49.50 dBm
2.483500 GHz
Marker 3 [T1]
-47.92 dBm
2.493200 GHz
Marker 4 [T1]
-49.99 dBm
2.500000 GHz
D1 -5.06 dBm
D2 -25.06 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.51 dBm
2.468800 GHz
Marker 2 [T1]
-54.27 dBm
2.483500 GHz
Marker 3 [T1]
-54.27 dBm
2.483500 GHz
Marker 4 [T1]
-56.86 dBm
2.500000 GHz
D1 -6.51 dBm
D2 -26.51 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-5.25 dBm
2.427120 GHz
Marker 2 [T1]
-41.30 dBm
21.903720 GHz
Marker 3 [T1]
-41.46 dBm
24.101080 GHz
Marker 4 [T1]
-41.48 dBm
21.654020 GHz
D1 -5.06 dBm
D2 -25.06 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11n (40MHz)

RESTRICT BAND (2310 ~ 2390 MHz)

FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2422.00 (PK)	107.9	42.8	65.1	74.0
2422.00 (AV)	97.3	43.4	53.9	54.0

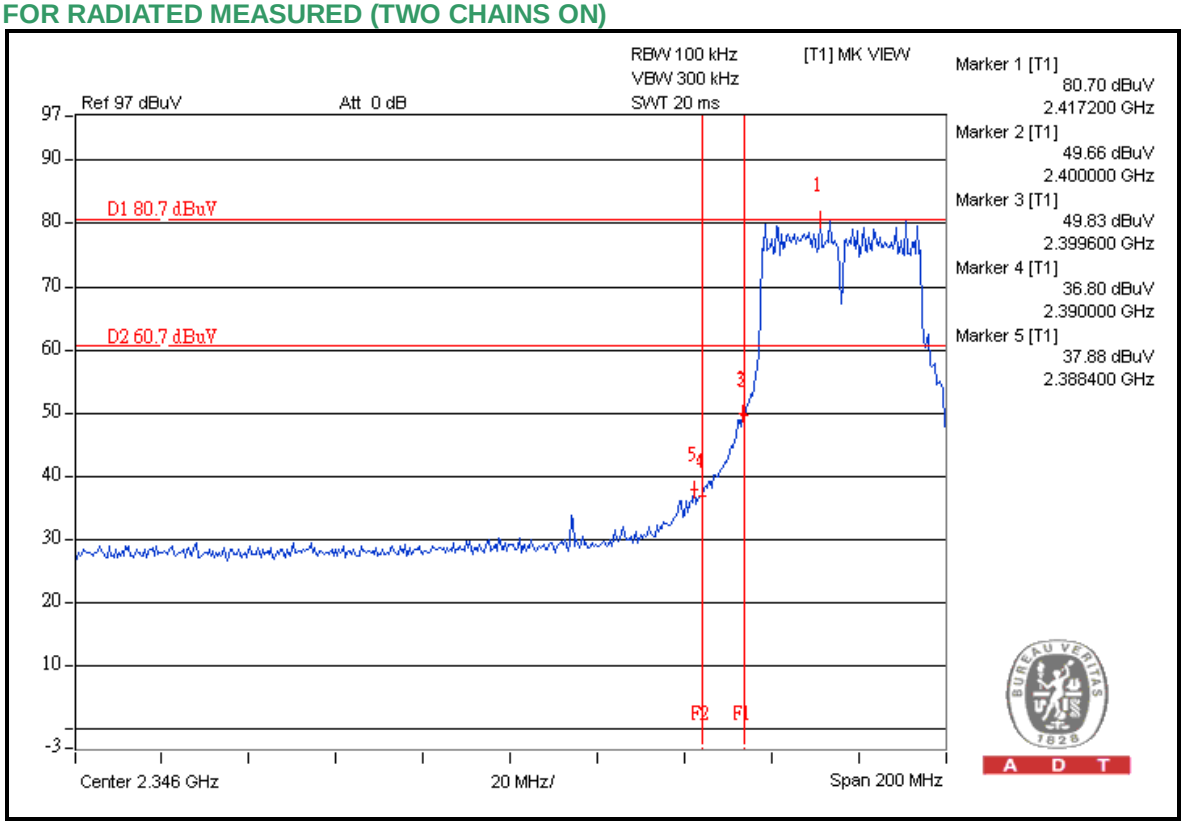
RESTRICT BAND (2483.5 ~ 2500 MHz)

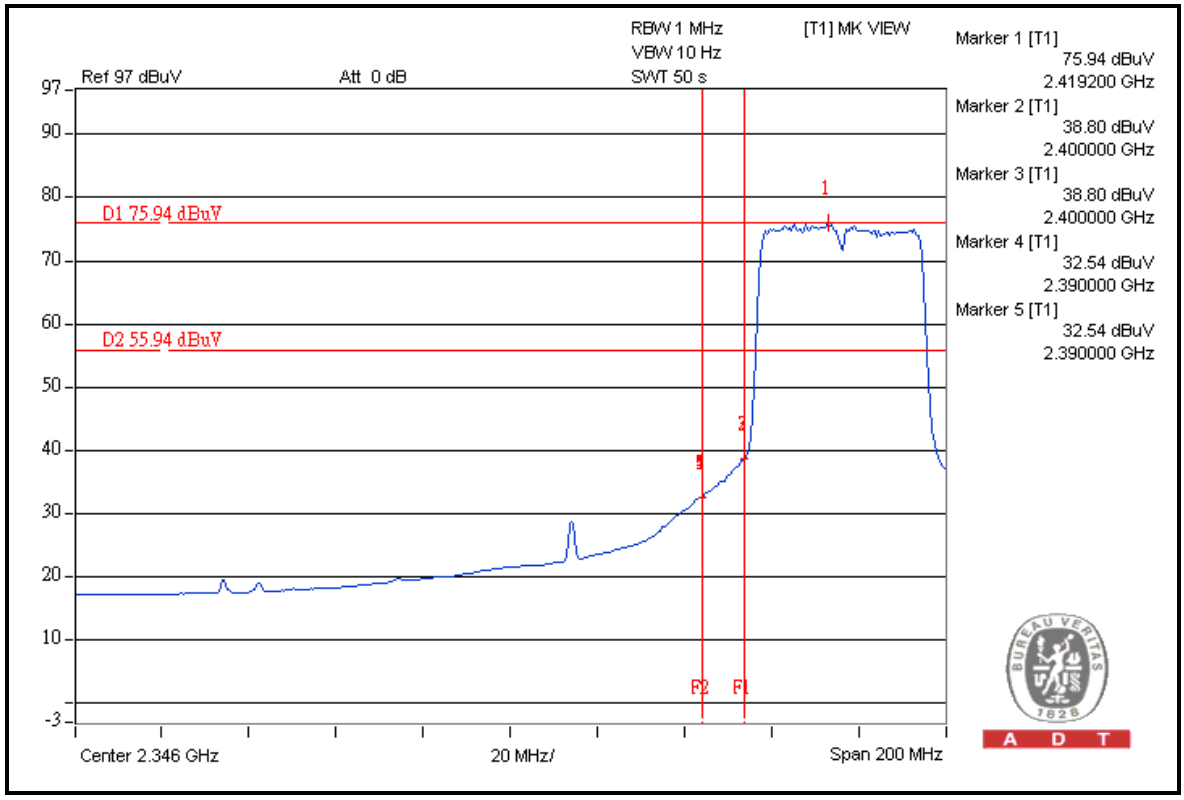
FREQUENCY (MHz)	FUNDAMENTAL EMISSION (dBuV/m)	DELTA (dB)	MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m)	LIMIT (dBuV/m)
2452.00 (PK)	106.8	41.2	65.6	74.0
2452.00 (AV)	95.9	42.6	53.3	54.0

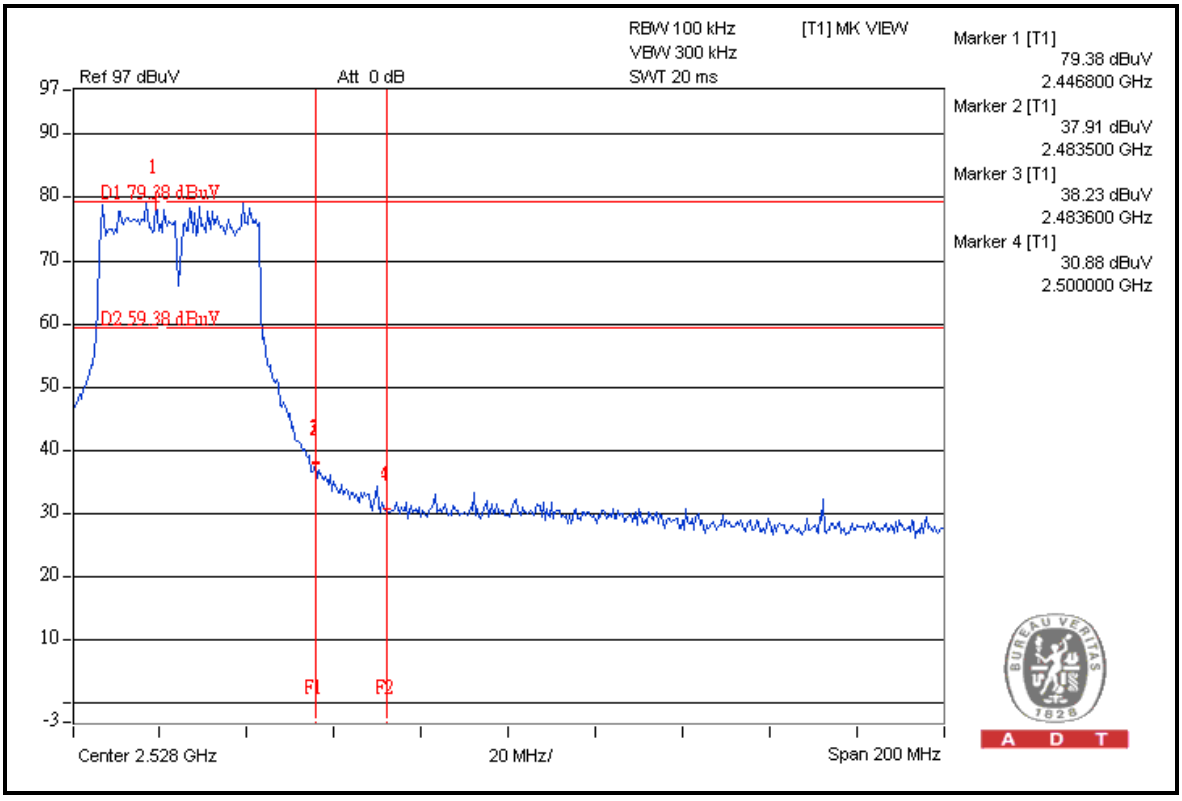
NOTE:

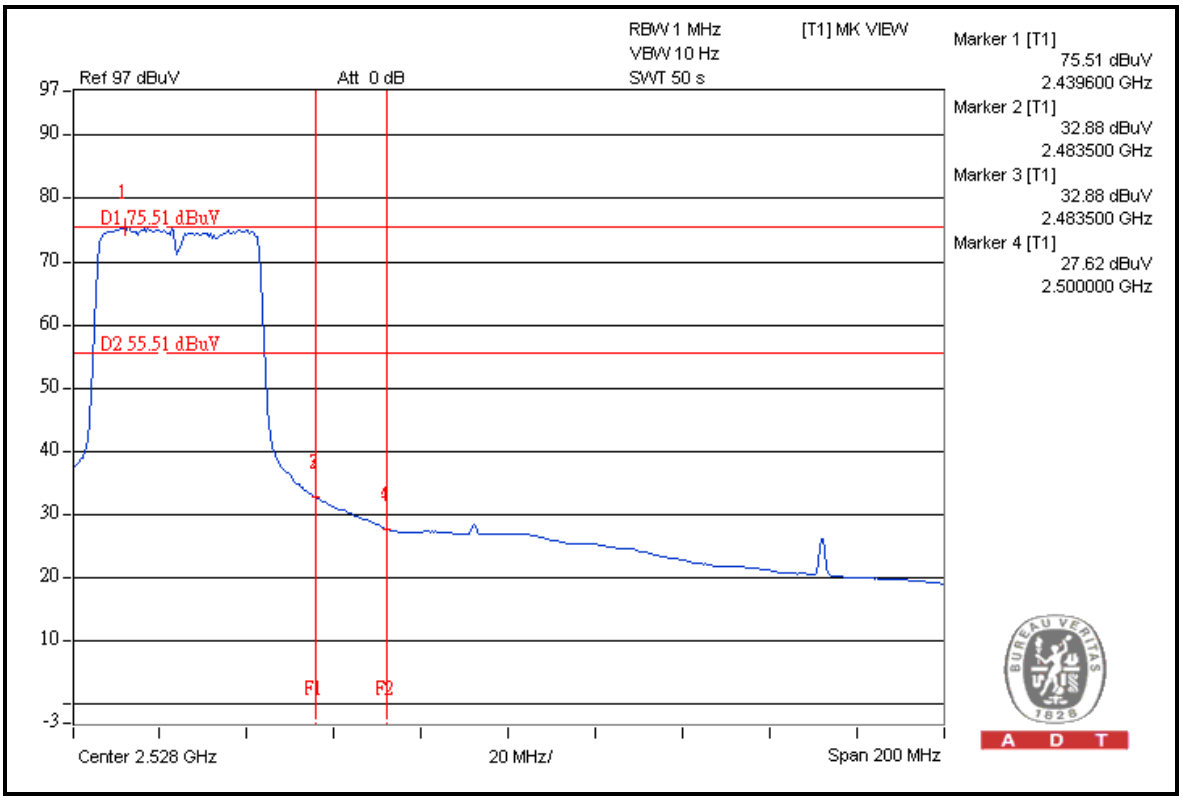
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 2 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

FOR RADIATED MEASURED (TWO CHAINS ON)



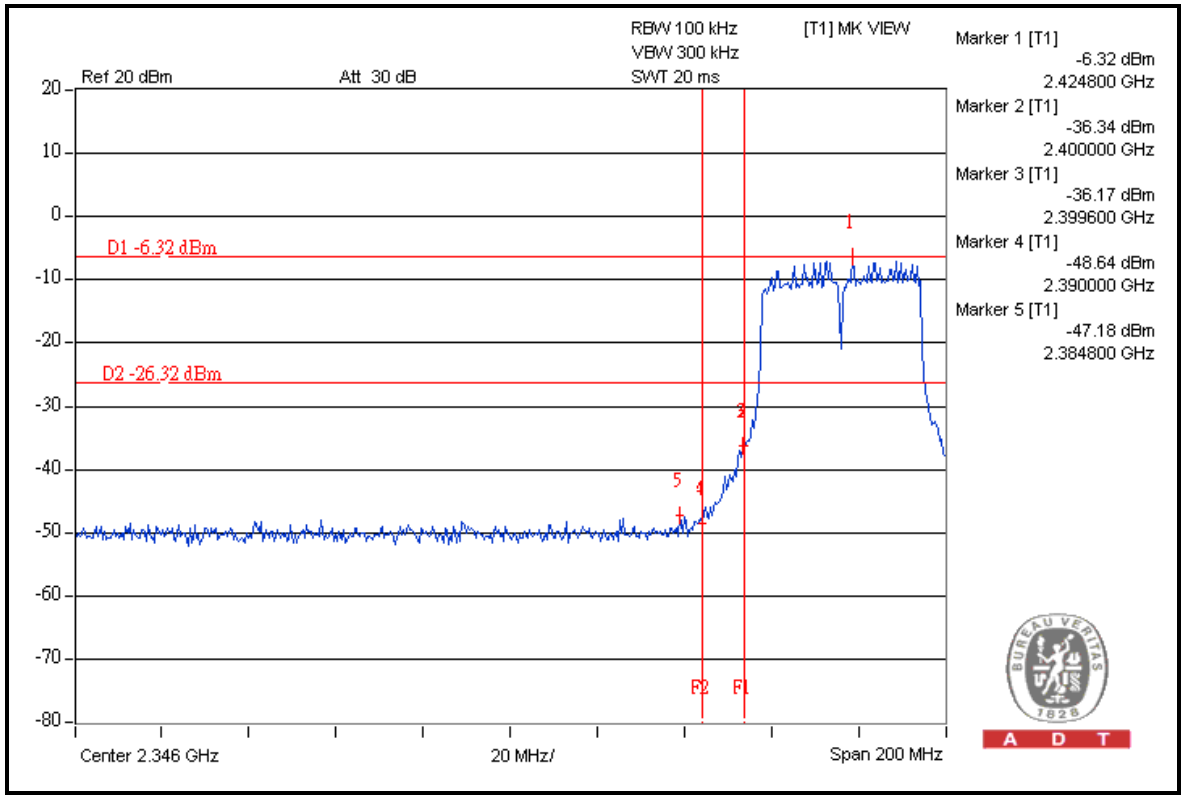


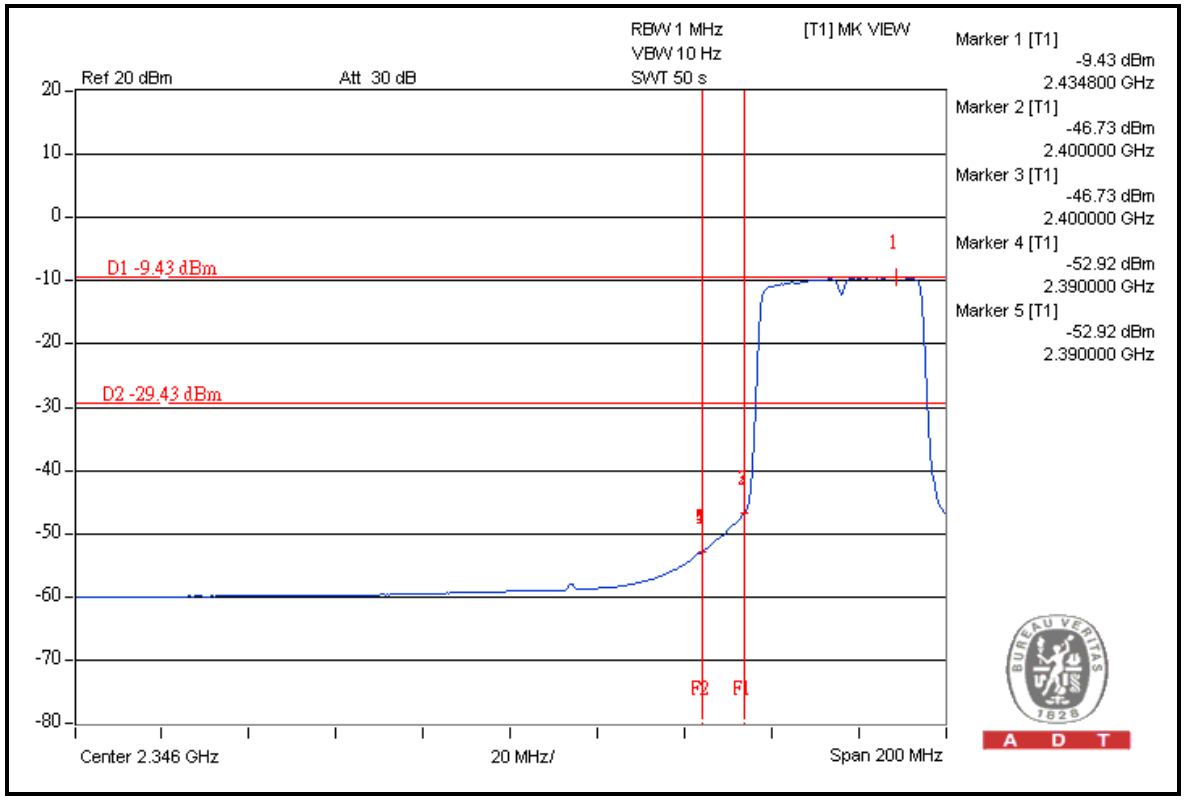

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
79.38 dBuV
2.446800 GHz
Marker 2 [T1]
37.91 dBuV
2.483500 GHz
Marker 3 [T1]
38.23 dBuV
2.483600 GHz
Marker 4 [T1]
30.88 dBuV
2.500000 GHz
D1 79.38 dBuV
D2 59.38 dBuV
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz

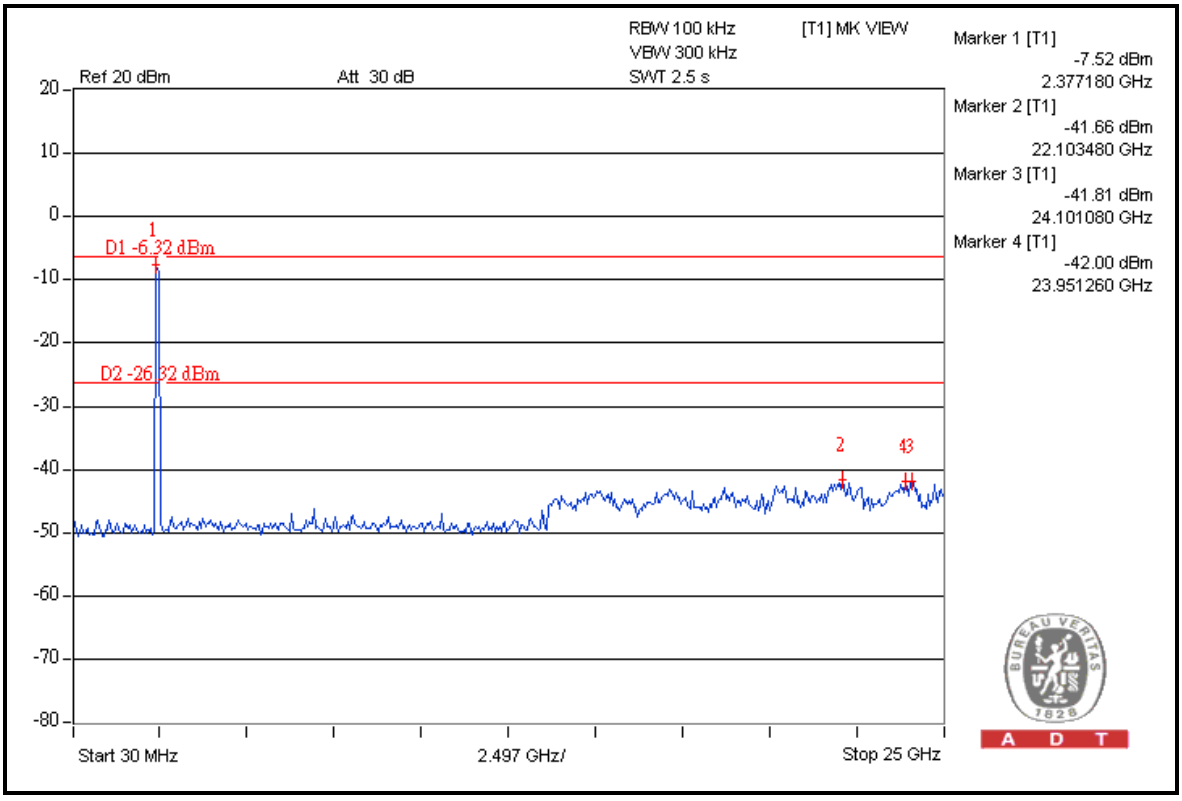

RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
75.51 dBuV
2.439600 GHz
Marker 2 [T1]
32.88 dBuV
2.483500 GHz
Marker 3 [T1]
32.88 dBuV
2.483500 GHz
Marker 4 [T1]
27.62 dBuV
2.500000 GHz
D1 75.51 dBuV
D2 55.51 dBuV
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz

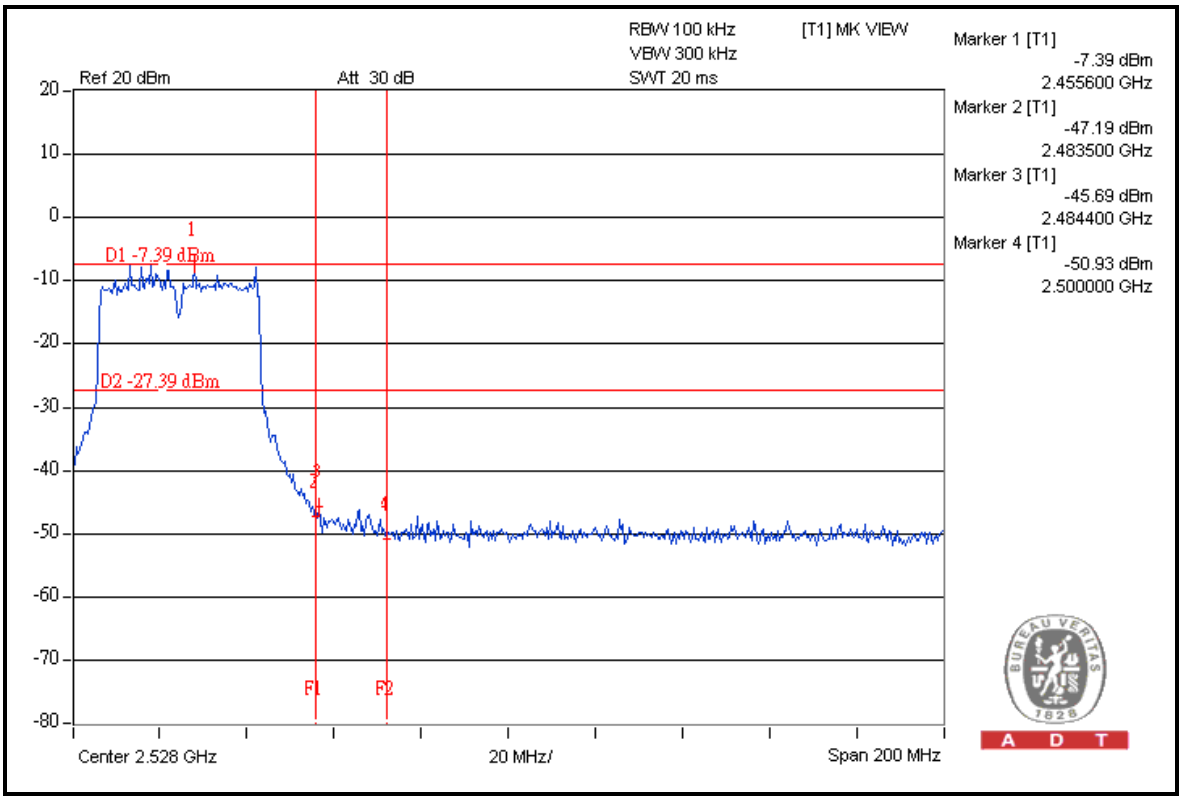
FOR CONDUCTED MEASURED

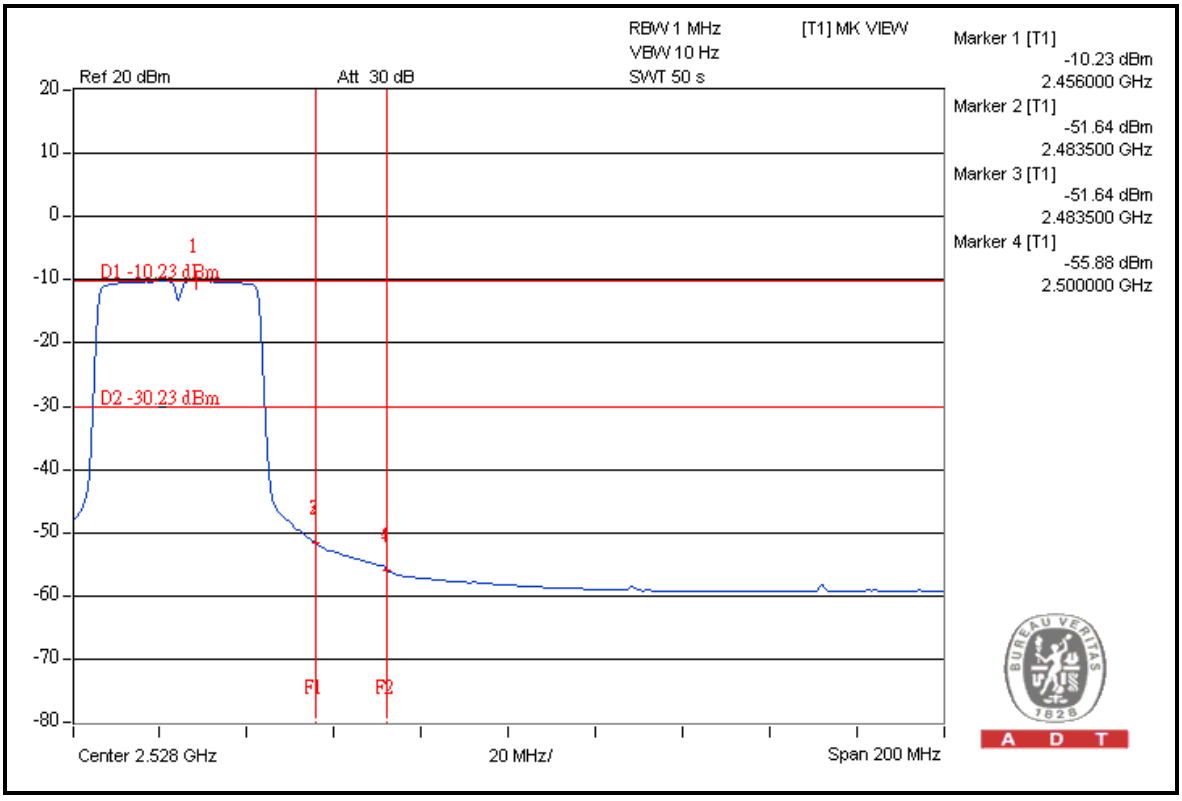
CHAIN 0

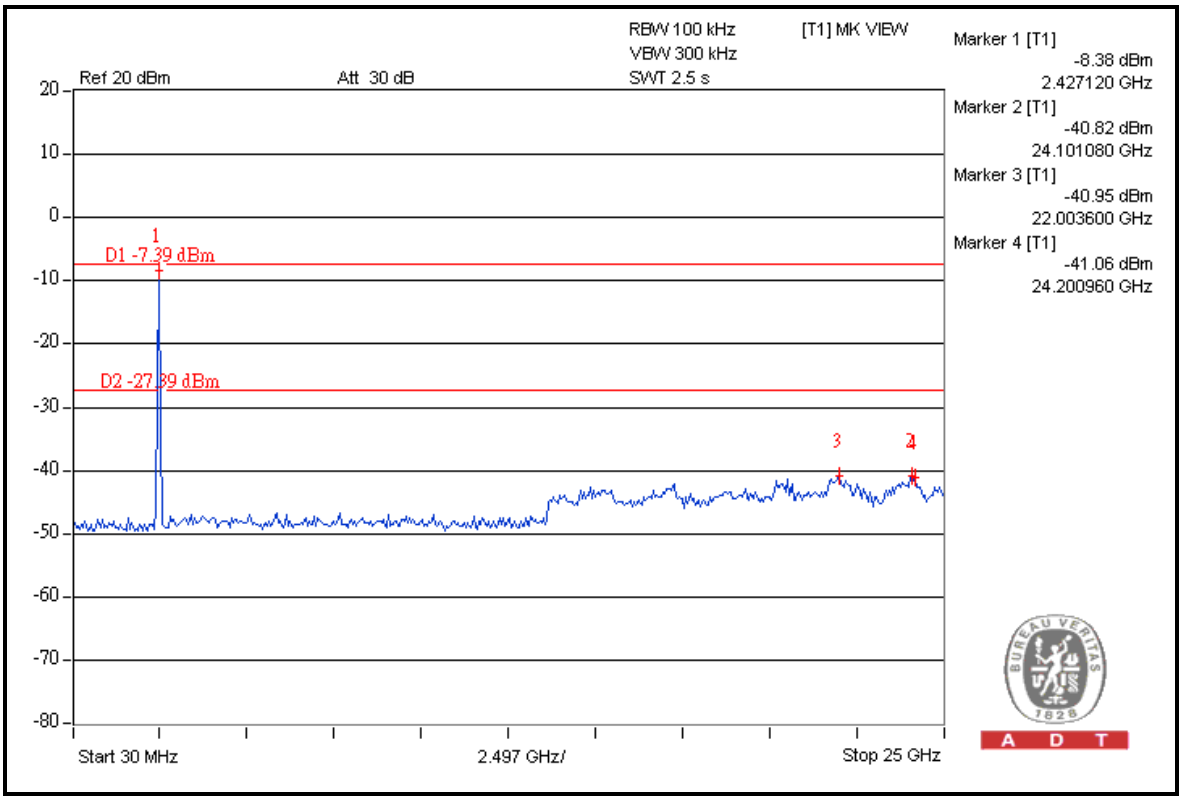




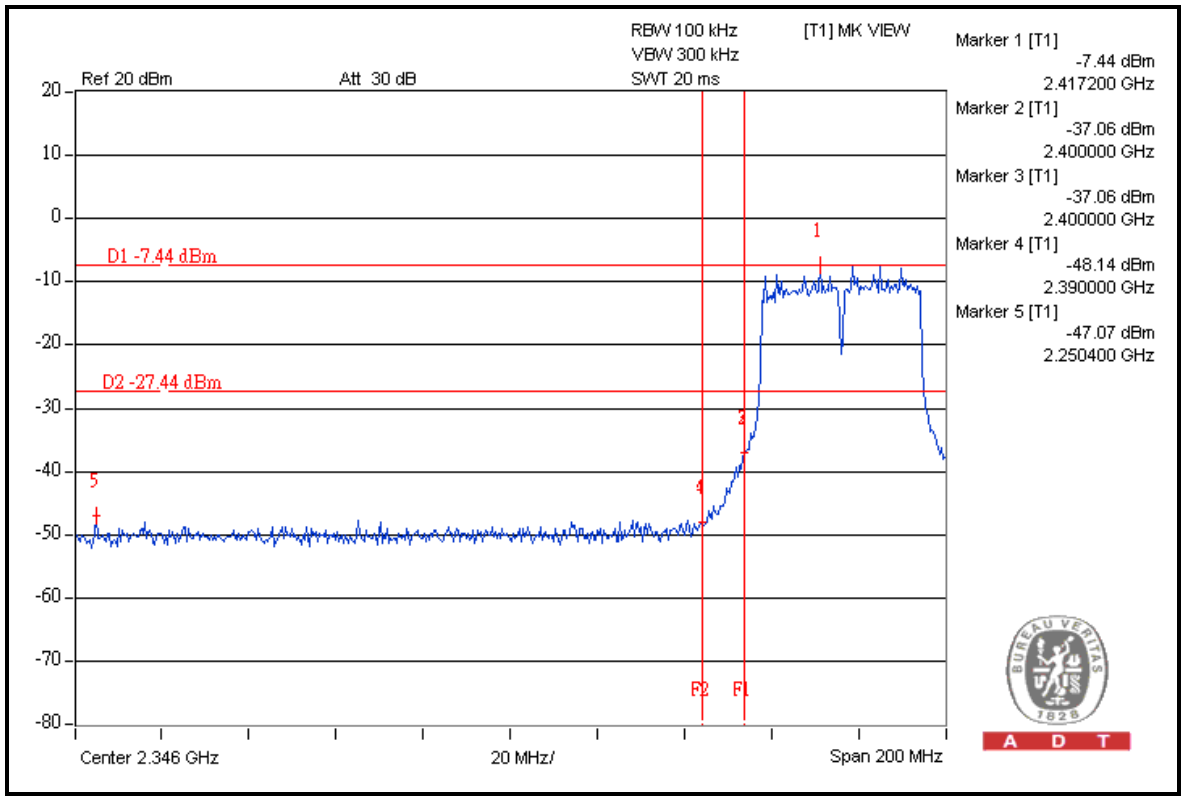

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-7.52 dBm
2.377180 GHz
Marker 2 [T1]
-41.66 dBm
22.103480 GHz
Marker 3 [T1]
-41.81 dBm
24.101080 GHz
Marker 4 [T1]
-42.00 dBm
23.951260 GHz
D1 -6.32 dBm
D2 -26.32 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

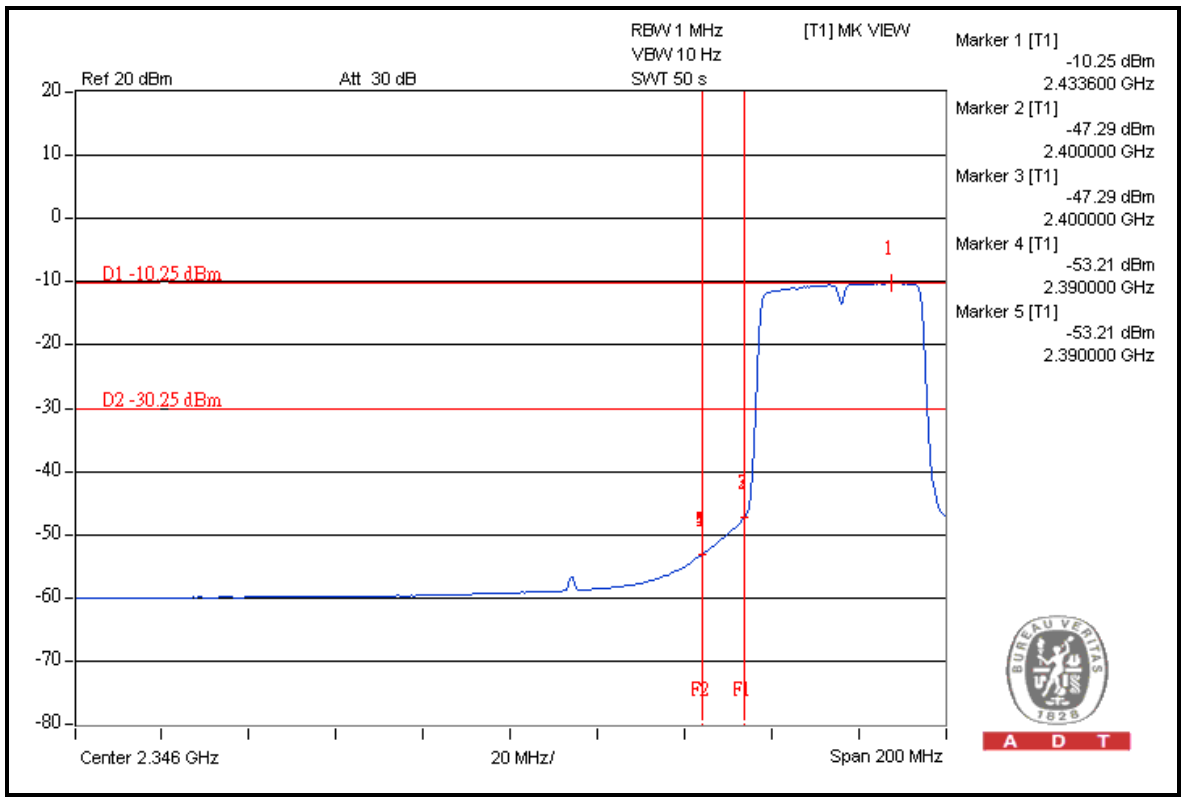

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-7.39 dBm
2.455600 GHz
Marker 2 [T1]
-47.19 dBm
2.483500 GHz
Marker 3 [T1]
-45.69 dBm
2.484400 GHz
Marker 4 [T1]
-50.93 dBm
2.500000 GHz
D1 -7.39 dBm
D2 -27.39 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz

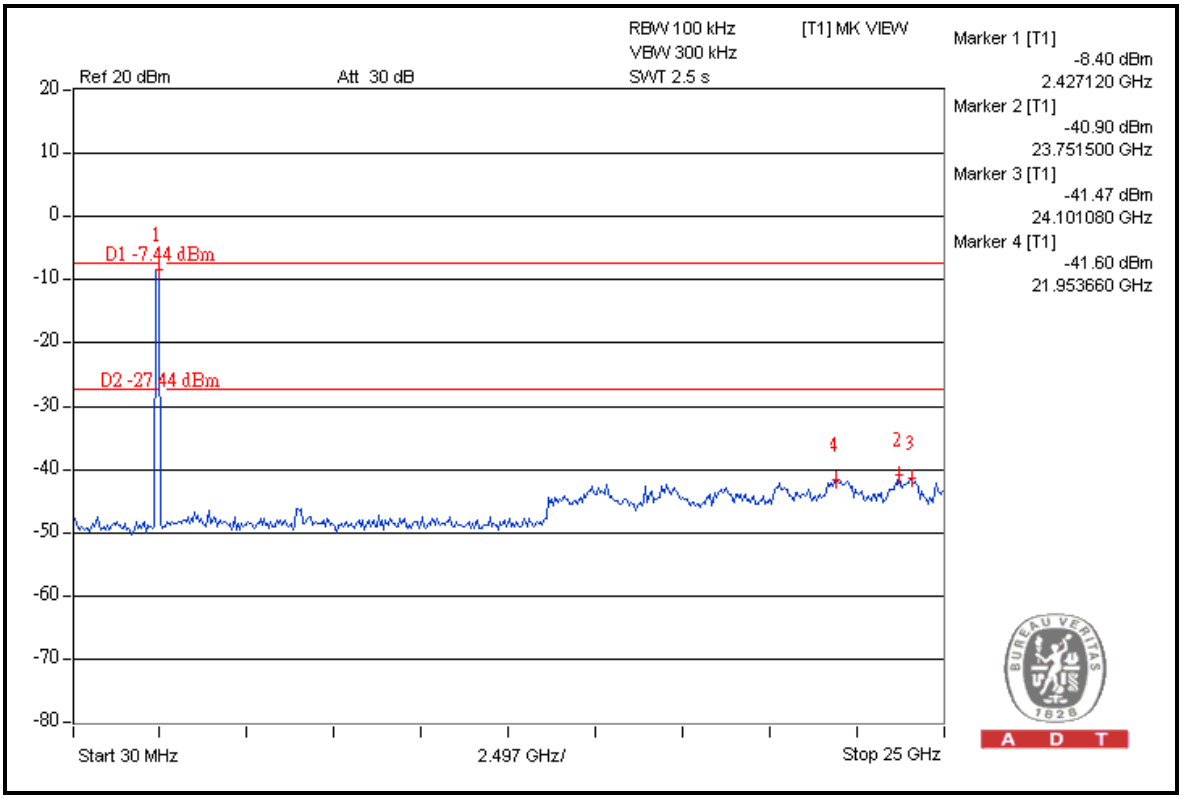

RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-10.23 dBm
2.456000 GHz
Marker 2 [T1]
-51.64 dBm
2.483500 GHz
Marker 3 [T1]
-51.64 dBm
2.483500 GHz
Marker 4 [T1]
-55.88 dBm
2.500000 GHz
D1 -10.23 dBm
D2 -30.23 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz

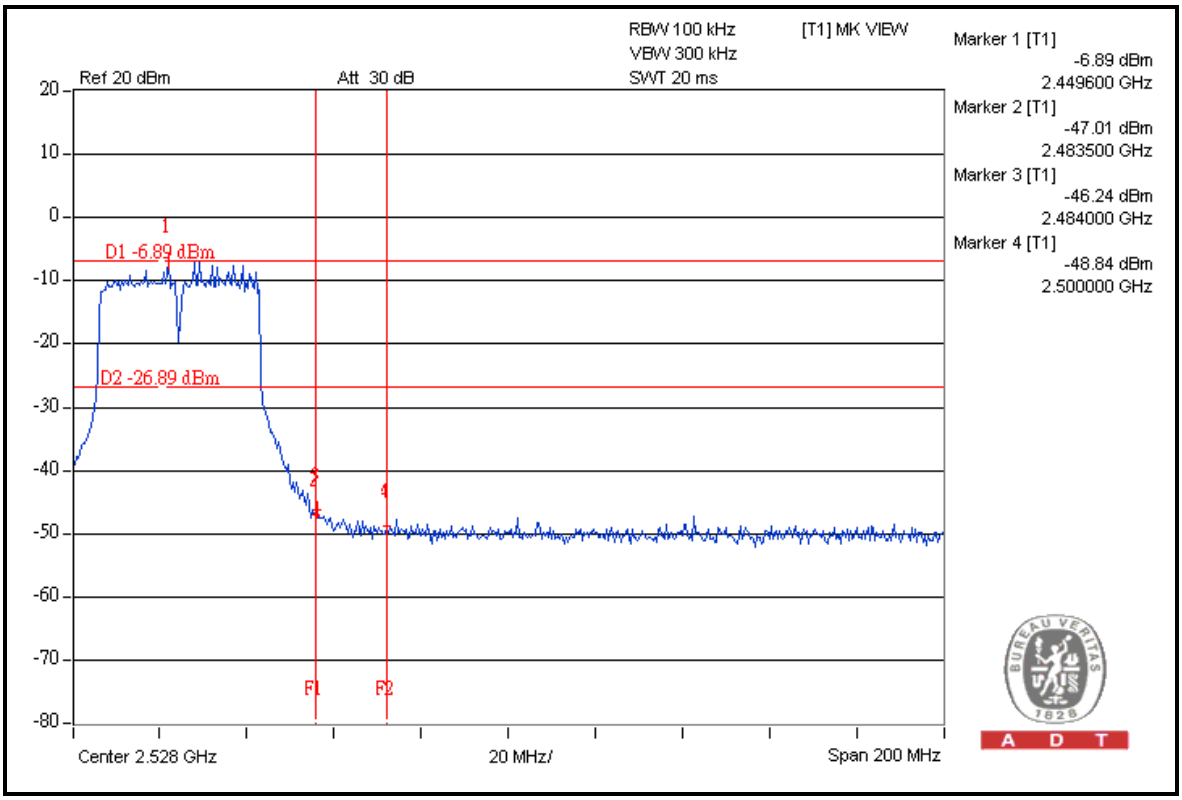

RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-8.38 dBm
2.427120 GHz
Marker 2 [T1]
-40.82 dBm
24.101080 GHz
Marker 3 [T1]
-40.95 dBm
22.003600 GHz
Marker 4 [T1]
-41.06 dBm
24.200960 GHz
D1 -7.39 dBm
D2 -27.39 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

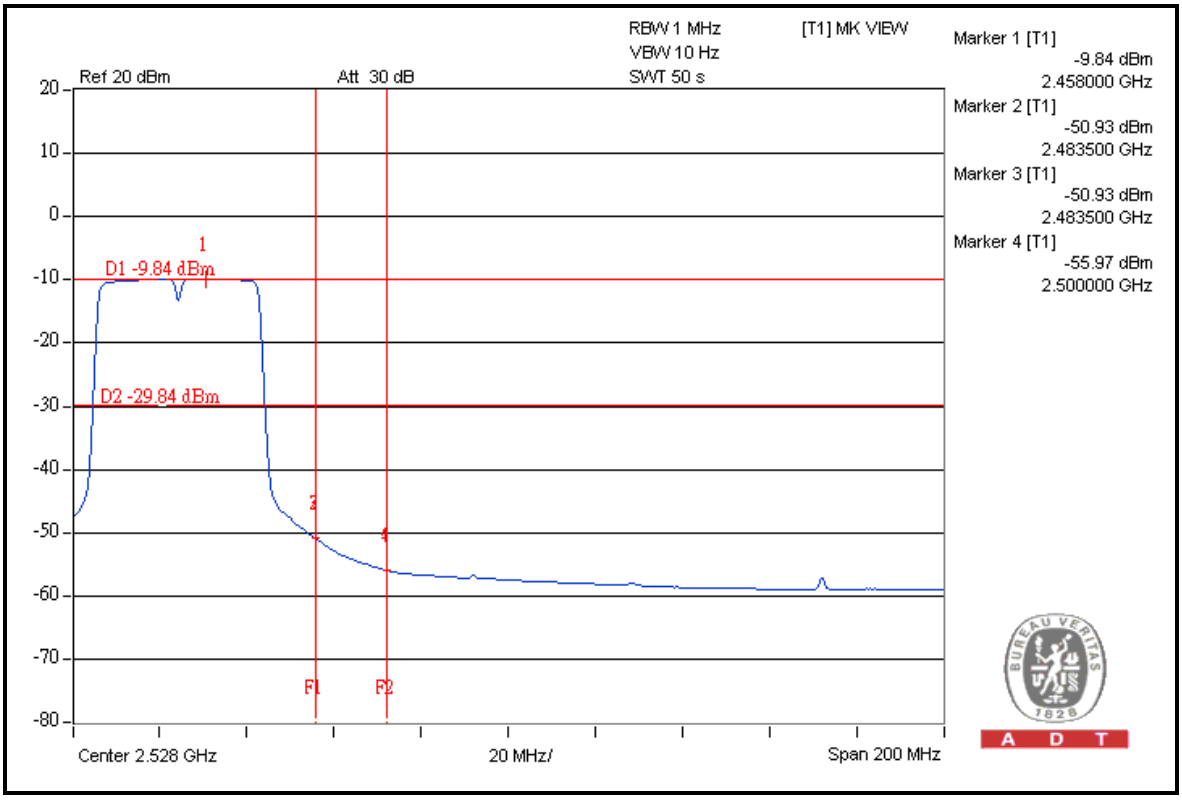
CHAIN 1

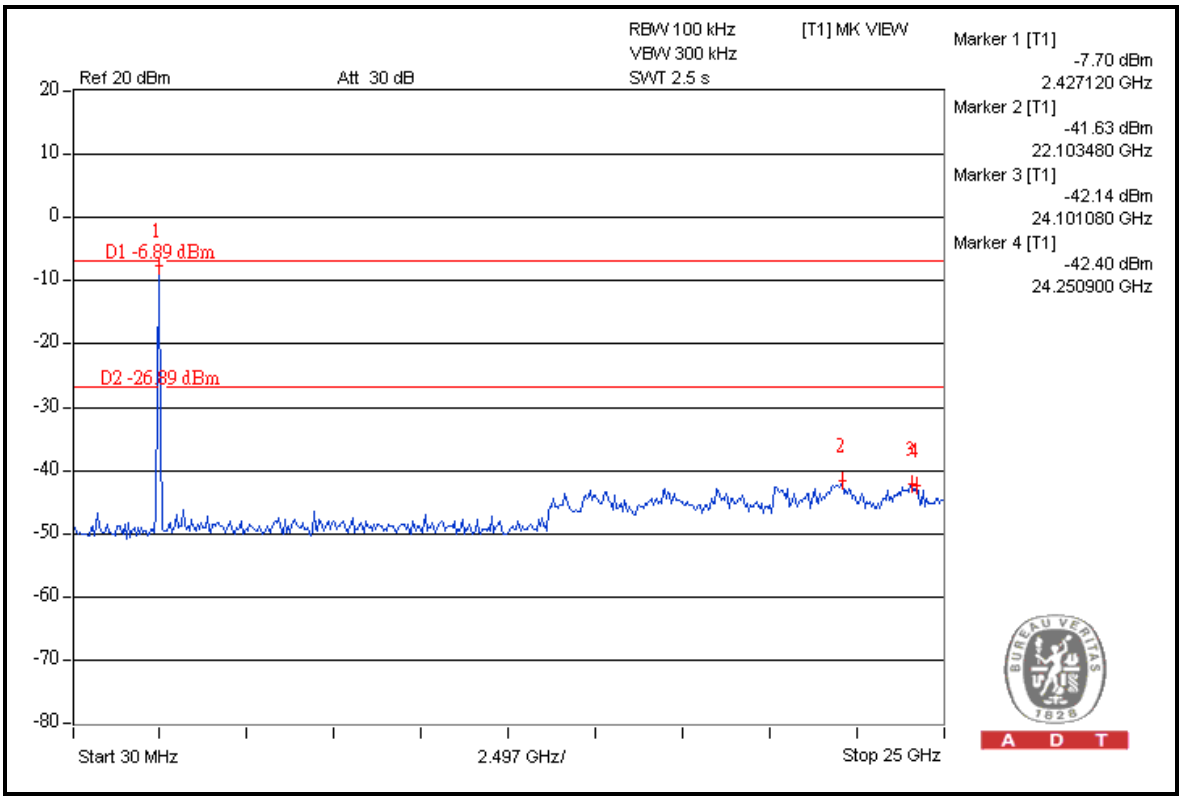

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-7.44 dBm
2.417200 GHz
Marker 2 [T1]
-37.06 dBm
2.400000 GHz
Marker 3 [T1]
-37.06 dBm
2.400000 GHz
Marker 4 [T1]
-48.14 dBm
2.390000 GHz
Marker 5 [T1]
-47.07 dBm
2.250400 GHz
D1 -7.44 dBm
D2 -27.44 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-10.25 dBm
2.433600 GHz
Marker 2 [T1]
-47.29 dBm
2.400000 GHz
Marker 3 [T1]
-47.29 dBm
2.400000 GHz
Marker 4 [T1]
-53.21 dBm
2.390000 GHz
Marker 5 [T1]
-53.21 dBm
2.390000 GHz
D1 -10.25 dBm
D2 -30.25 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-8.40 dBm
2.427120 GHz
Marker 2 [T1]
-40.90 dBm
23.751500 GHz
Marker 3 [T1]
-41.47 dBm
24.101080 GHz
Marker 4 [T1]
-41.60 dBm
21.953660 GHz
D1 -7.44 dBm
D2 -27.44 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 20 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-6.89 dBm
2.449600 GHz
Marker 2 [T1]
-47.01 dBm
2.483500 GHz
Marker 3 [T1]
-46.24 dBm
2.484000 GHz
Marker 4 [T1]
-48.84 dBm
2.500000 GHz
D1 -6.89 dBm
D2 -26.89 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-9.84 dBm
2.458000 GHz
Marker 2 [T1]
-50.93 dBm
2.483500 GHz
Marker 3 [T1]
-50.93 dBm
2.483500 GHz
Marker 4 [T1]
-55.97 dBm
2.500000 GHz
D1 -9.84 dBm
D2 -29.84 dBm
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
-7.70 dBm
2.427120 GHz
Marker 2 [T1]
-41.63 dBm
22.103480 GHz
Marker 3 [T1]
-42.14 dBm
24.101080 GHz
Marker 4 [T1]
-42.40 dBm
24.250900 GHz
D1 -6.89 dBm
D2 -26.89 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation and authorization certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
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Email: service.adt@tw.bureauveritas.com
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---