FCC Radio Test Report

FCC ID: X4YNXG150

This report concerns (check one): ☒Original Grant ☐Class II Change

Project No.	:	1411C285
Equipment	:	NexxtGate 150 High Power Access Point
Model Name	:	AEOPLDR4U2
Applicant	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE,MIAMI ,FL,33178

Date of Receipt	:	Dec. 01, 2014
Date of Test	:	Dec. 01, 2014 ~ Dec. 18, 2014
Issued Date	:	Dec. 19, 2014
Tested by	:	BTL Inc.

Testing Engineer : (David Mao)

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1411C285	Original Issue.	Dec. 19, 2014

1. CERTIFICATION

Equipment	:	NexxtGate 150 High Power Access Point
Brand Name	:	NEXXT
Model Name	:	AEOPLDR4U2
Applicant	:	NEXXT SOLUTIONS
Date of Test	:	Dec. 01, 2014 ~ Dec. 18, 2014
Test Sample	:	ENGINEERING SAMPLE
Standard(s)	:	FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1411C285) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2013			
Standard(s) Section **FCC**	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792
BTL's test firm number for FCC: 319330

2.2 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:

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	NexxtGate 150 High Power Access Point	
Brand Name	NEXXT	
Model Name	AEOPLDR4U2	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 150 Mbps
	Output Power (Max.)	802.11b: 18.75dBm 802.11g: 25.30dBm 802.11n(20MHz):23.00dBm 802.11n(40MHz): 21.10dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand: NEXXT Model: TEA12-12150	
Power Rating	I/P: AC 100-240V 50/60Hz 0.6A O/P: DC 12V/1.5 A	

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

2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
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		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain	Note
1	N/A	N/A	Internal	N/A	10.00	TX/RX
2	Tenda	Q5091	Diople	N/A	5.07	TX/RX

Note:

1. Anenna 1 and antenna 2 is optional and only one antenna is used at a time. These two antennas can not transmit simultaneously.

3.2 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	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

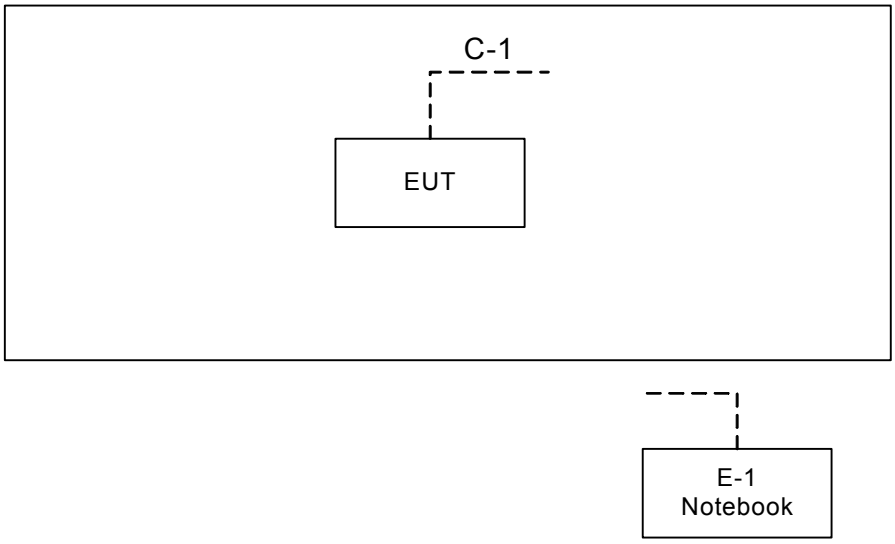
(4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	MTOOL_2.0.0.3		
Frequency (MHz)	2412	2437	2462
802.11b	55	57	50
802.11g	48	62	48
802.11n (20MHz)	40	56	46
Frequency	2422	2437	2452
802.11n (40MHz)	42	46	41

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Notebook	DELL	INSPIRON 1420	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ-45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value – Limit Value

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

4.1.2 TEST PROCEDURE

a. 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.

b. 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.

c. 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.

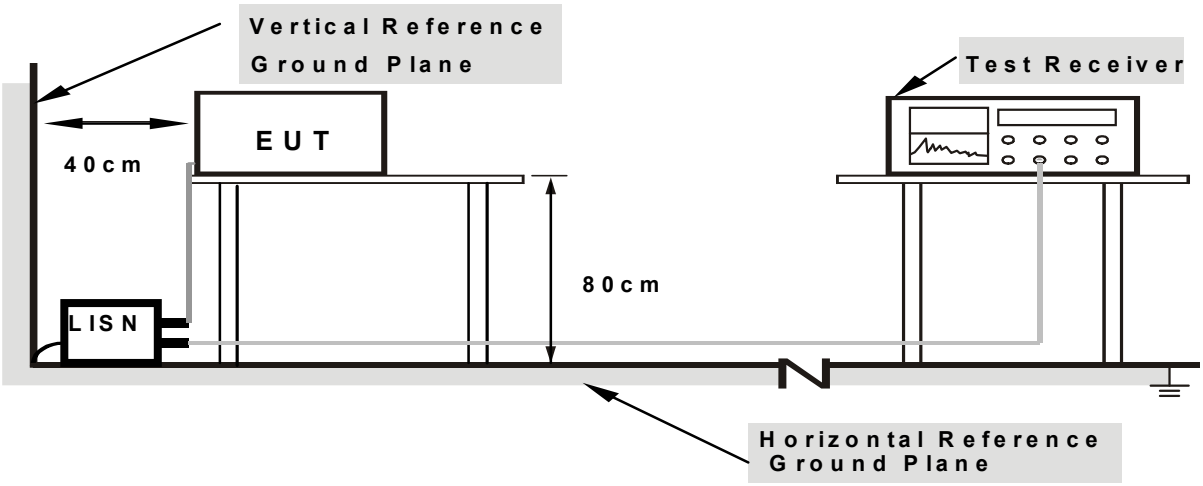
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 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

4.1.5 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.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB 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.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	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
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

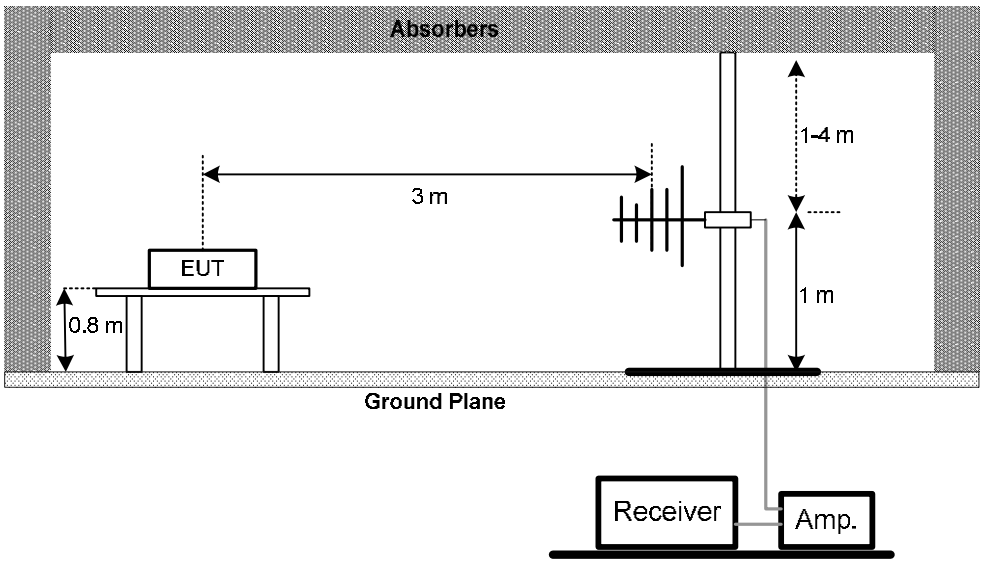
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m; 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.

4.2.3 DEVIATION FROM TEST STANDARD

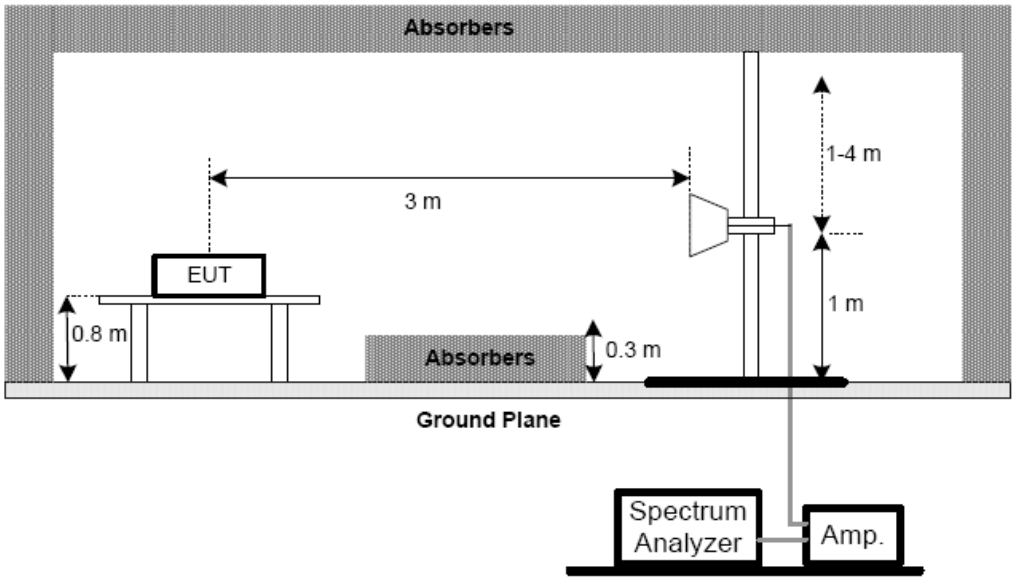
No deviation

4.2.4 TEST SETUP

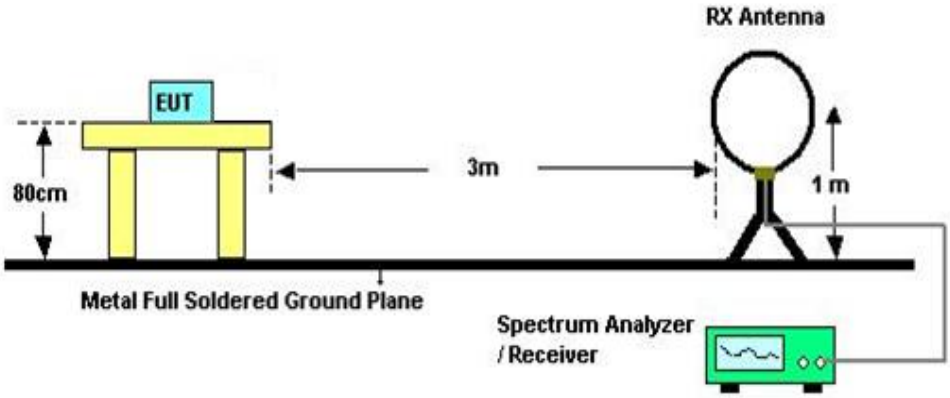
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

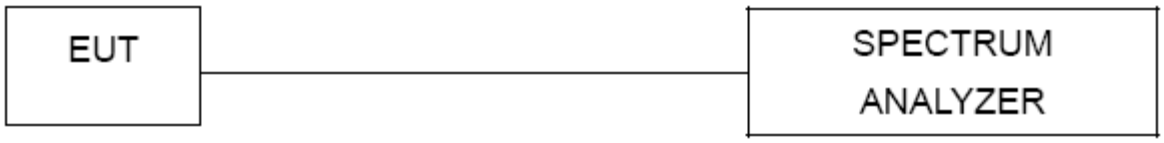
5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED 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)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

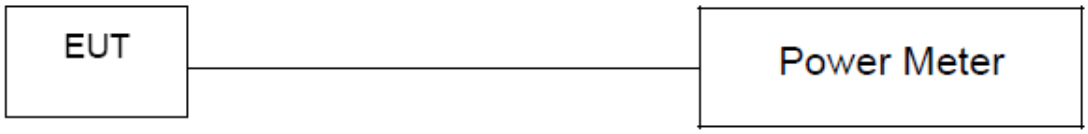
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

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 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.
Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

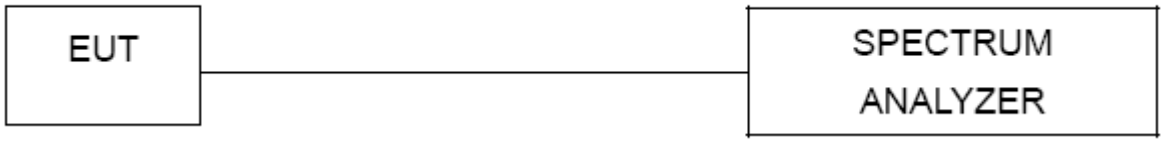
7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

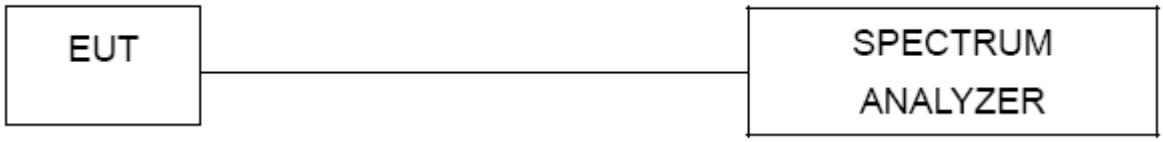
8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

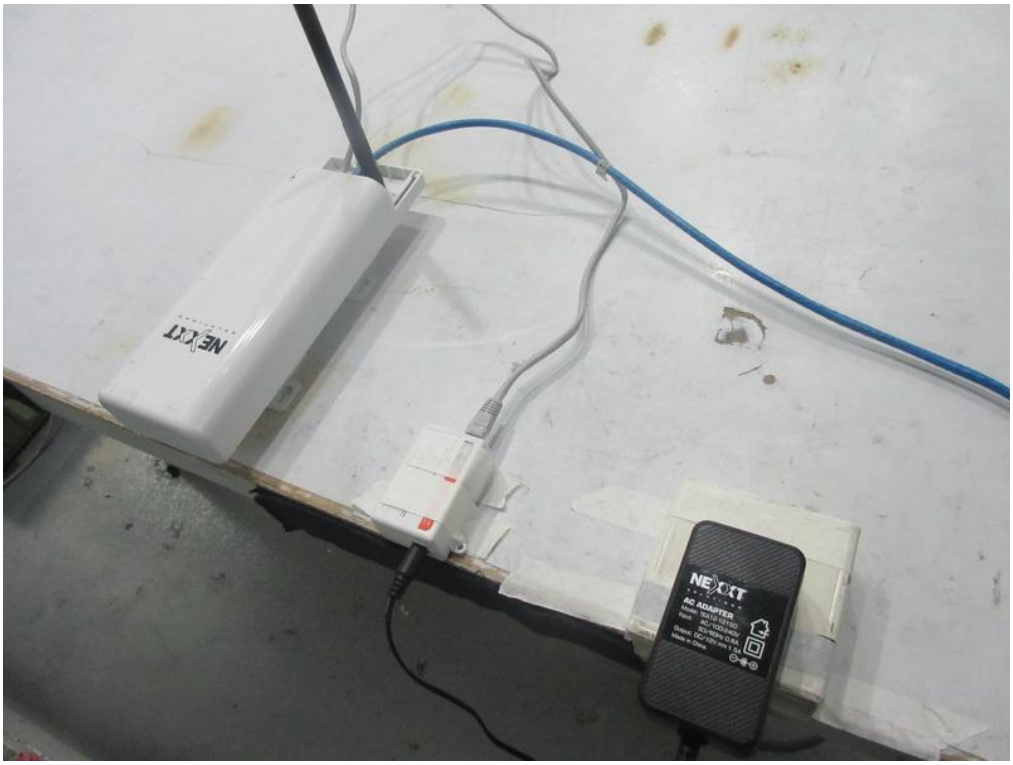
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

Conducted Measurement Photos-Internal Antenna

Conducted Measurement Photos-External Antenna

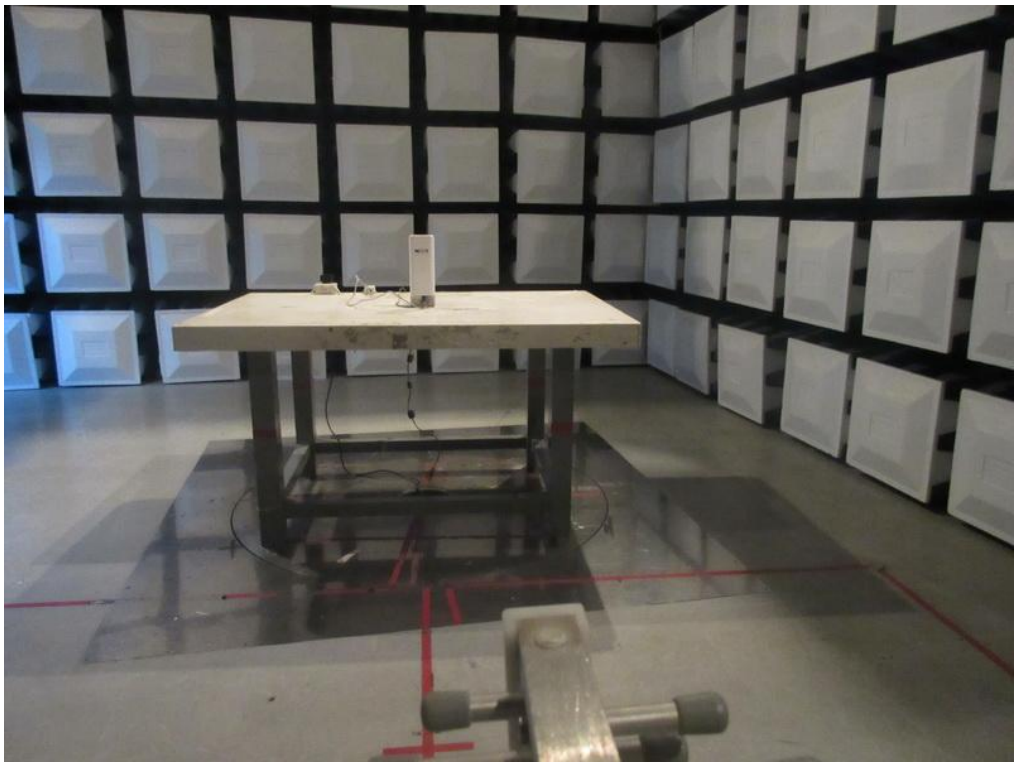


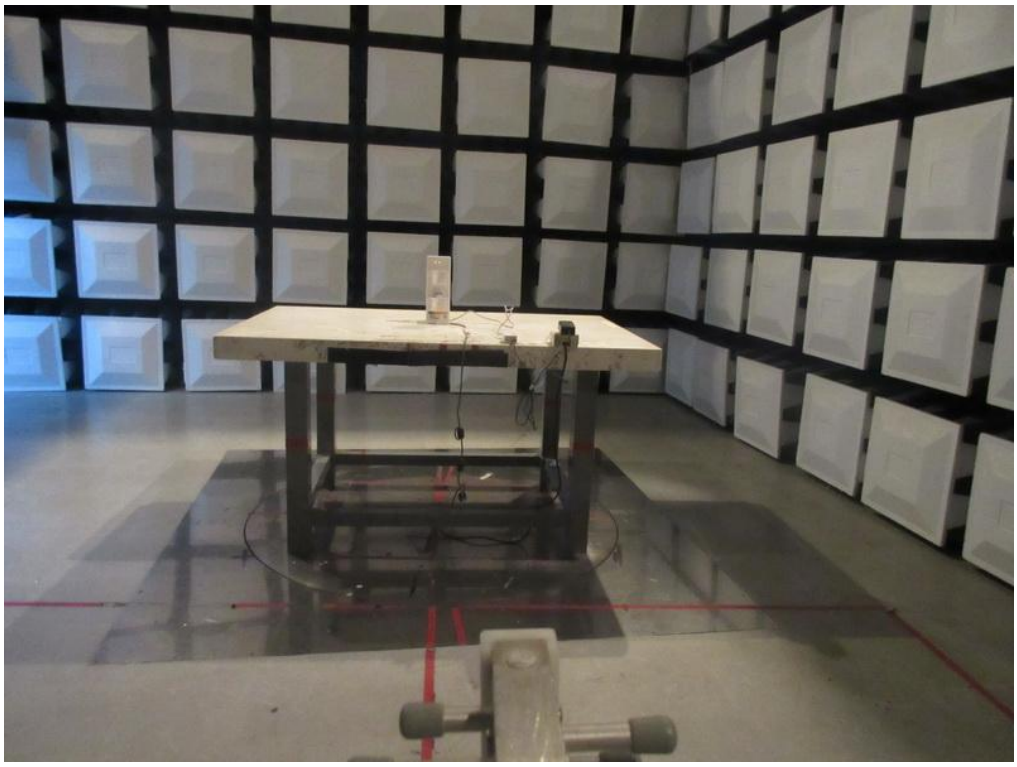
Radiated Measurement Photos-Internal Antenna

9KHz to 30MHz

Radiated Measurement Photos-Internal Antenna

30MHz to 1000MHz





Radiated Measurement Photos-Internal Antenna

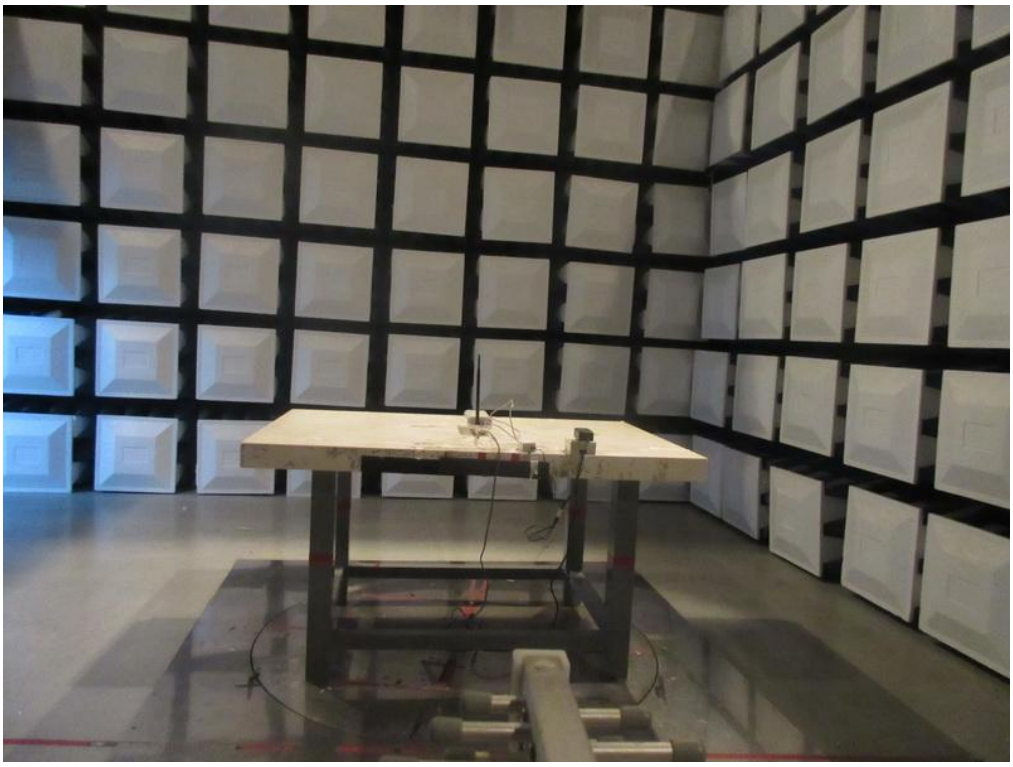
Above 1000MHz

Radiated Measurement Photos-External Antenna

9KHz to 30MHz

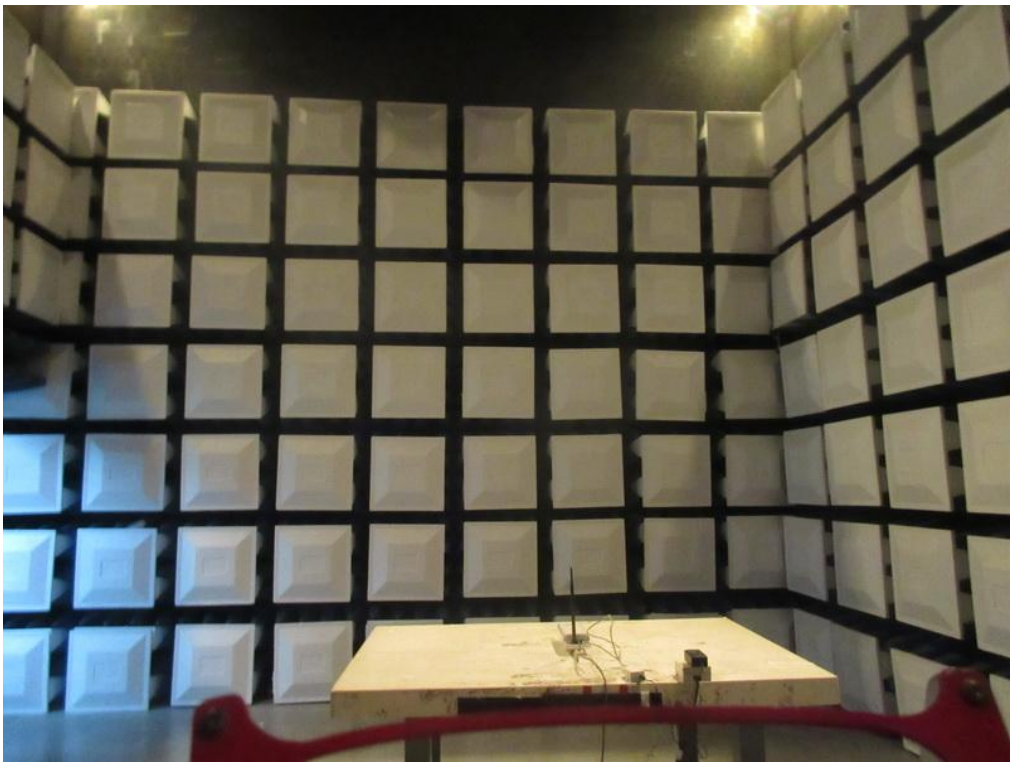
Radiated Measurement Photos-External Antenna

30MHz to 1000MHz



Radiated Measurement Photos-External Antenna

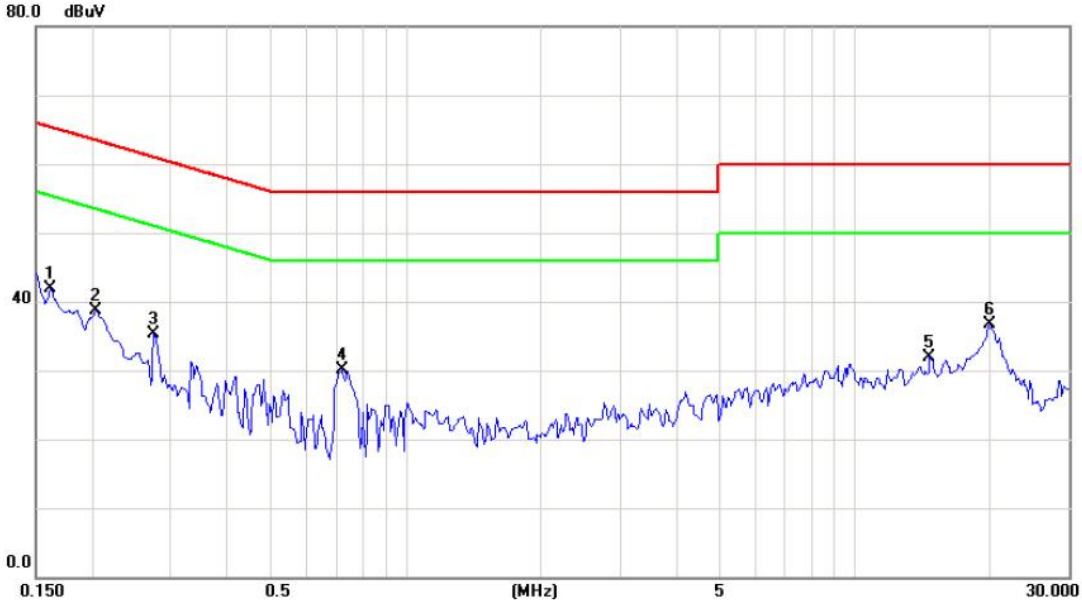
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE-Internal Antenna

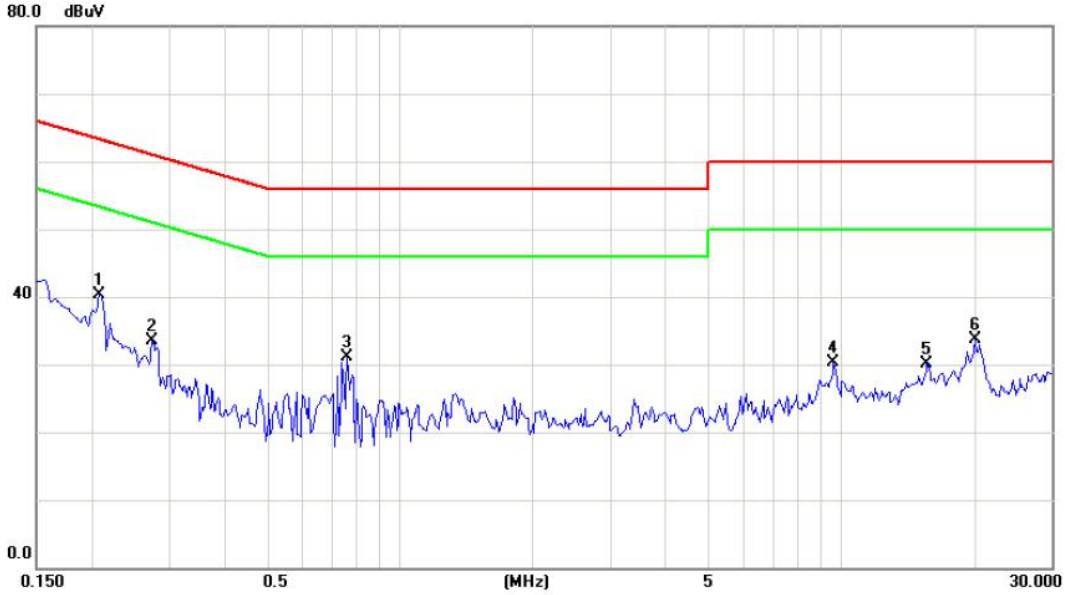
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1617	32.47	9.52	41.99	65.38	-23.39	peak	
2		0.2047	29.08	9.54	38.62	63.42	-24.80	peak	
3		0.2750	25.63	9.58	35.21	60.97	-25.76	peak	
4		0.7203	20.48	9.62	30.10	56.00	-25.90	peak	
5		14.7344	21.72	10.22	31.94	60.00	-28.06	peak	
6	*	19.9570	26.21	10.46	36.67	60.00	-23.33	peak	

Test Mode :	TX MODE-Internal Antenna

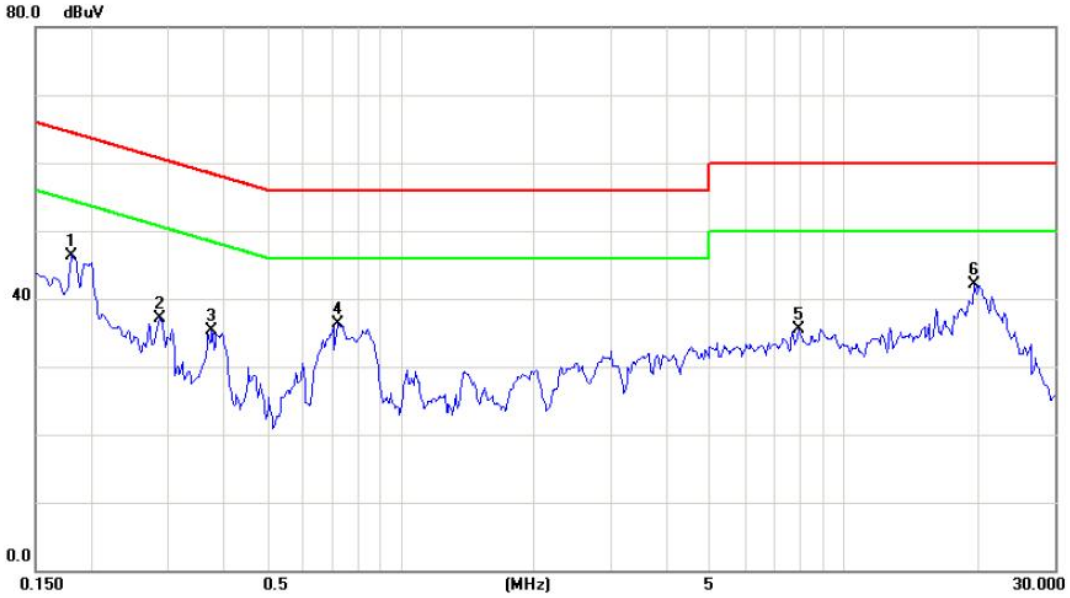
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2086	30.77	9.61	40.38	63.26	-22.88	peak	
2		0.2750	23.94	9.62	33.56	60.97	-27.41	peak	
3		0.7594	21.48	9.67	31.15	56.00	-24.85	peak	
4		9.6290	20.17	10.08	30.25	60.00	-29.75	peak	
5		15.6953	19.74	10.31	30.05	60.00	-29.95	peak	
6		20.1367	23.20	10.44	33.64	60.00	-26.36	peak	

Test Mode :	TX MODE-External Antenna

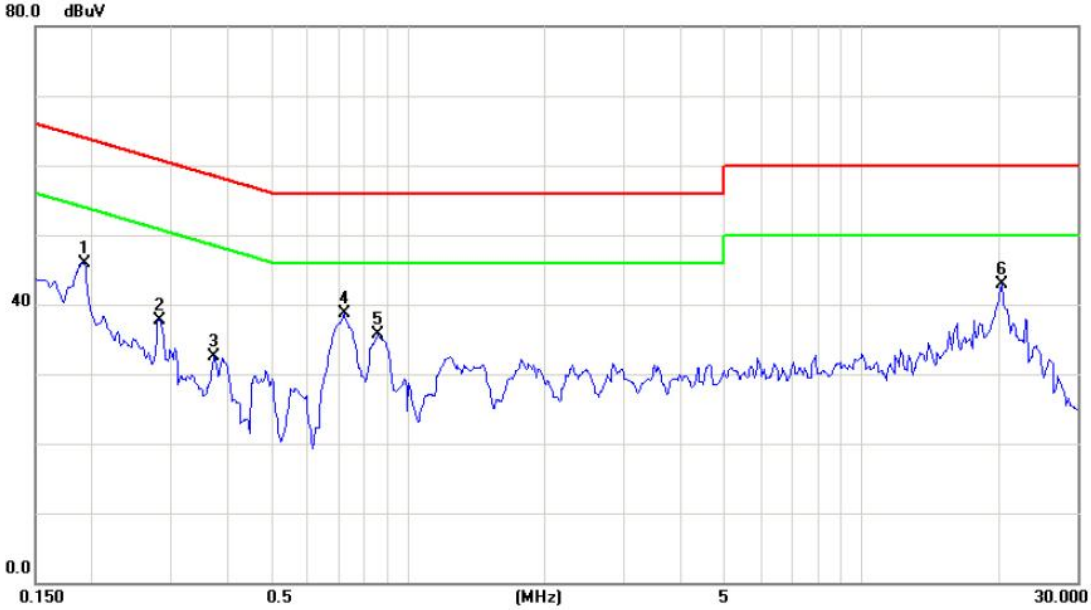
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1812	36.78	9.49	46.27	64.43	-18.16	peak	
2		0.2867	27.59	9.54	37.13	60.62	-23.49	peak	
3		0.3766	25.68	9.59	35.27	58.35	-23.08	peak	
4		0.7203	26.70	9.55	36.25	56.00	-19.75	peak	
5		7.9220	25.78	9.77	35.55	60.00	-24.45	peak	
6	*	19.7070	32.15	10.04	42.19	60.00	-17.81	peak	

Test Mode :	TX MODE-External Antenna

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1930	36.38	9.57	45.95	63.91	-17.96	peak	
2		0.2828	28.15	9.57	37.72	60.73	-23.01	peak	
3		0.3727	22.84	9.58	32.42	58.44	-26.02	peak	
4		0.7203	29.19	9.59	38.78	56.00	-17.22	peak	
5		0.8531	26.10	9.59	35.69	56.00	-20.31	peak	
6	*	20.3828	32.77	10.04	42.81	60.00	-17.19	peak	

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX Mode-Internal Antenna

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0093	0°	1.84	24.98	26.82	108.23	-81.42	AVG
0.0093	0°	9.52	24.98	34.50	128.23	-93.74	PEAK
0.0236	0°	1.41	24.07	25.48	100.15	-74.66	AVG
0.0236	0°	9.68	24.07	33.75	120.15	-86.39	PEAK
0.0312	0°	1.21	23.59	24.80	97.72	-72.92	AVG
0.0312	0°	9.79	23.59	33.38	117.72	-84.34	PEAK
0.0432	0°	2.86	22.83	25.69	94.89	-69.20	AVG
0.0432	0°	10.73	22.83	33.56	114.89	-81.33	PEAK
0.5245	0°	8.78	19.88	28.66	73.21	-44.55	QP
1.7178	0°	11.62	19.53	31.15	69.54	-38.39	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0094	90°	3.06	24.30	27.36	128.14	-100.78	AVG
0.0094	90°	11.43	24.30	35.73	148.14	-112.41	PEAK
0.0261	90°	1.51	23.91	25.42	119.27	-93.85	AVG
0.0261	90°	10.63	23.91	34.54	139.27	-104.73	PEAK
0.0351	90°	2.64	23.34	25.98	116.70	-90.71	AVG
0.0351	90°	9.81	23.34	33.15	136.70	-103.54	PEAK
0.0463	90°	2.54	22.63	25.17	114.29	-89.12	AVG
0.0463	90°	10.36	22.63	32.99	134.29	-101.30	PEAK
0.4942	90°	8.89	19.81	28.70	73.73	-45.02	QP
1.7174	90°	11.52	19.53	31.05	69.54	-38.49	QP

Test Mode:	TX Mode-External Antenna

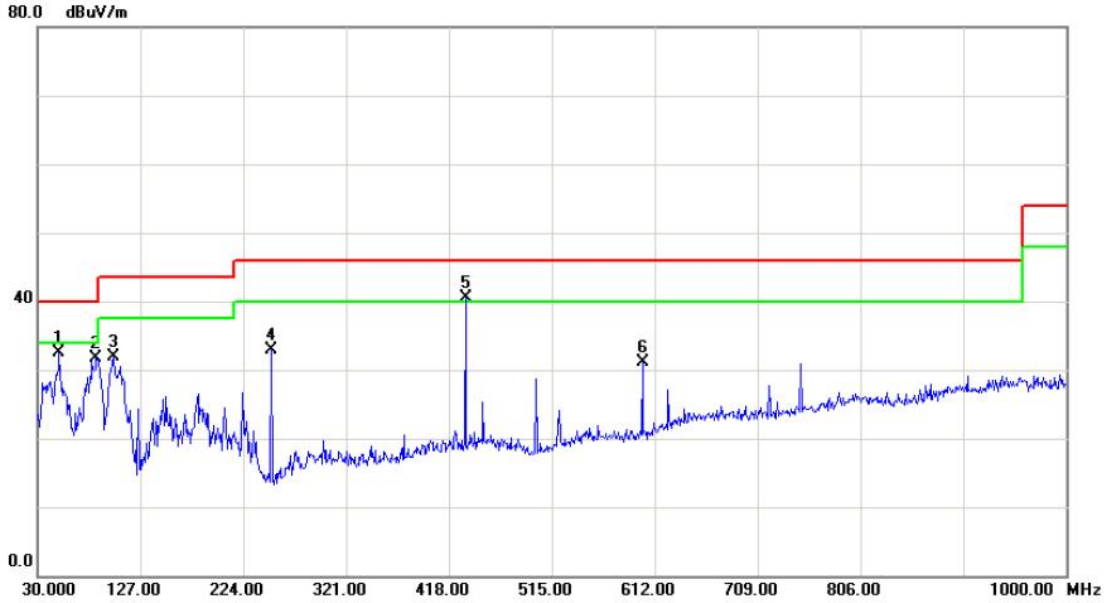
Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0163	0°	13.64	24.53	38.17	103.36	-65.19	AVG
0.0163	0°	14.55	24.53	39.08	123.36	-84.28	PEAK
0.0354	0°	6.79	23.32	30.11	96.62	-66.51	AVG
0.0354	0°	7.58	23.32	30.90	116.62	-85.72	PEAK
0.0383	0°	3.57	23.14	26.71	95.94	-69.23	AVG
0.0383	0°	5.36	23.14	28.50	115.94	-87.44	PEAK
0.0464	0°	0.87	22.63	23.50	94.27	-70.78	AVG
0.0464	0°	2.86	22.63	25.49	114.27	-88.79	PEAK
2.0651	0°	30.64	19.46	50.10	69.54	-19.44	QP
3.3675	0°	21.66	18.94	40.60	69.54	-28.94	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0153	90°	13.38	24.30	37.68	123.91	-86.23	AVG
0.0153	90°	14.45	24.30	38.75	143.91	-105.16	PEAK
0.0334	90°	6.53	23.45	29.98	117.13	-87.15	AVG
0.0334	90°	8.74	23.45	32.19	137.13	-104.94	PEAK
0.0371	90°	3.62	23.22	26.84	116.22	-89.38	AVG
0.0371	90°	5.38	23.22	28.60	136.22	-107.62	PEAK
0.0679	90°	0.64	22.04	22.68	110.97	-88.28	AVG
0.0679	90°	2.91	22.04	24.95	130.97	-106.01	PEAK
2.0563	90°	30.64	19.47	50.11	69.54	-19.43	QP
3.2474	90°	21.69	18.92	40.61	69.54	-28.93	QP

ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode:	TX B MODE CHANNEL 01-Internal Antenna

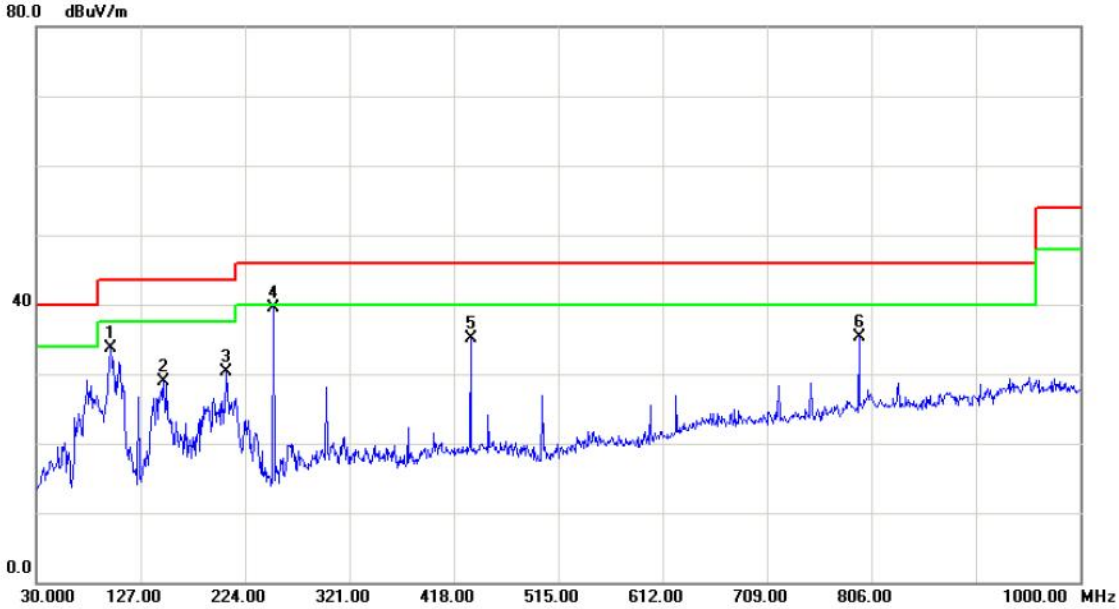
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		50.3700	46.64	-14.09	32.55	40.00	-7.45	peak	
2		85.2900	49.22	-17.45	31.77	40.00	-8.23	peak	
3		101.7800	48.06	-16.19	31.87	43.50	-11.63	peak	
4		250.1900	46.87	-14.02	32.85	46.00	-13.15	peak	
5	*	433.5200	49.41	-8.92	40.49	46.00	-5.51	peak	
6		600.3600	38.99	-7.89	31.10	46.00	-14.90	peak	

Test Mode:	TX B MODE CHANNEL 01-Internal Antenna

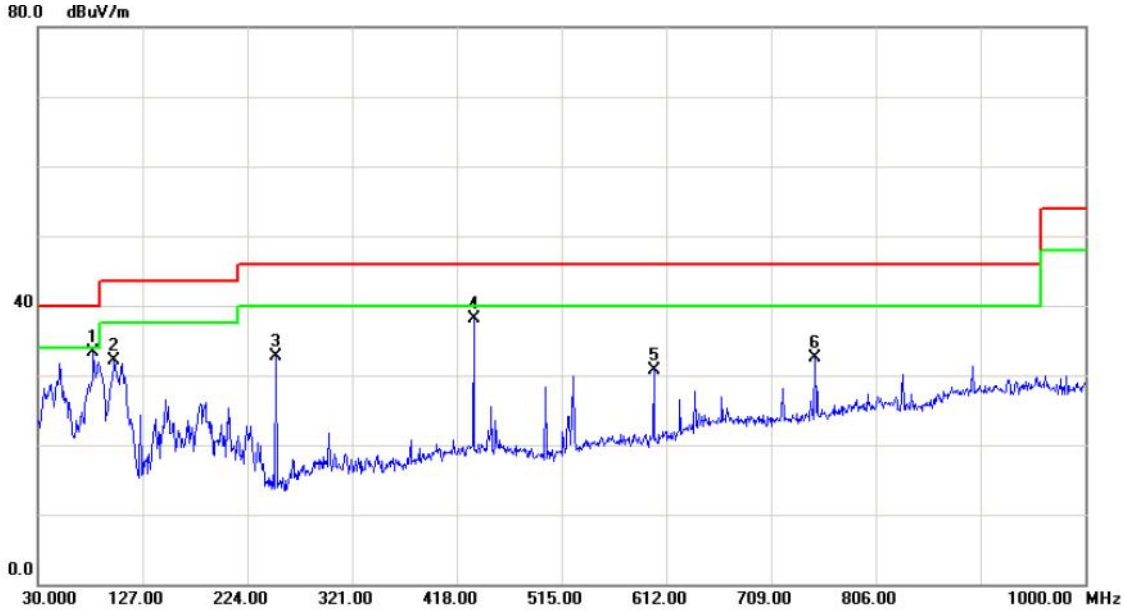
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		98.8700	50.19	-16.55	33.64	43.50	-9.86	peak	
2		148.3400	42.11	-13.18	28.93	43.50	-14.57	peak	
3		206.5400	45.61	-15.27	30.34	43.50	-13.16	peak	
4	*	250.1900	53.45	-14.02	39.43	46.00	-6.57	peak	
5		433.5200	43.93	-8.92	35.01	46.00	-10.99	peak	
6		794.3600	38.47	-3.08	35.39	46.00	-10.61	peak	

Test Mode:	TX B MODE CHANNEL 06-Internal Antenna

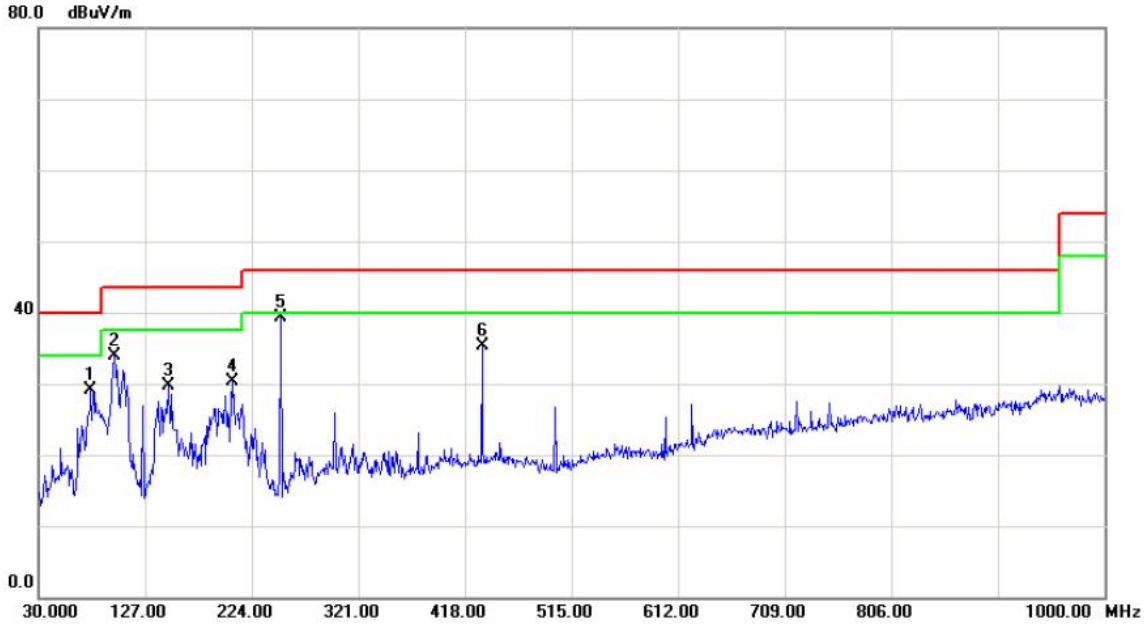
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	50.56	-17.23	33.33	40.00	-6.67	peak	
2		100.8100	48.46	-16.30	32.16	43.50	-11.34	peak	
3		250.1900	46.64	-14.02	32.62	46.00	-13.38	peak	
4		433.5200	47.11	-8.92	38.19	46.00	-7.81	peak	
5		600.3600	38.69	-7.89	30.80	46.00	-15.20	peak	
6		749.7400	37.17	-4.63	32.54	46.00	-13.46	peak	

Test Mode:	TX B MODE CHANNEL 06-Internal Antenna

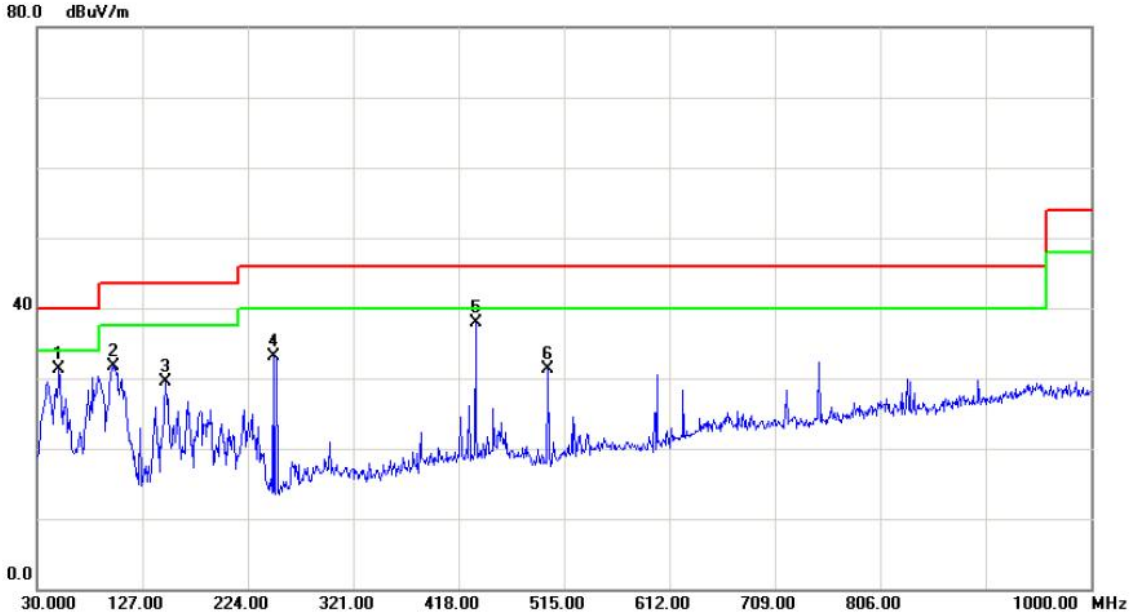
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		77.5300	46.00	-16.87	29.13	40.00	-10.87	peak	
2		98.8700	50.43	-16.55	33.88	43.50	-9.62	peak	
3		148.3400	42.80	-13.18	29.62	43.50	-13.88	peak	
4		206.5400	45.51	-15.27	30.24	43.50	-13.26	peak	
5	*	250.1900	53.29	-14.02	39.27	46.00	-6.73	peak	
6		433.5200	44.27	-8.92	35.35	46.00	-10.65	peak	

Test Mode:	TX B MODE CHANNEL 11-Internal Antenna

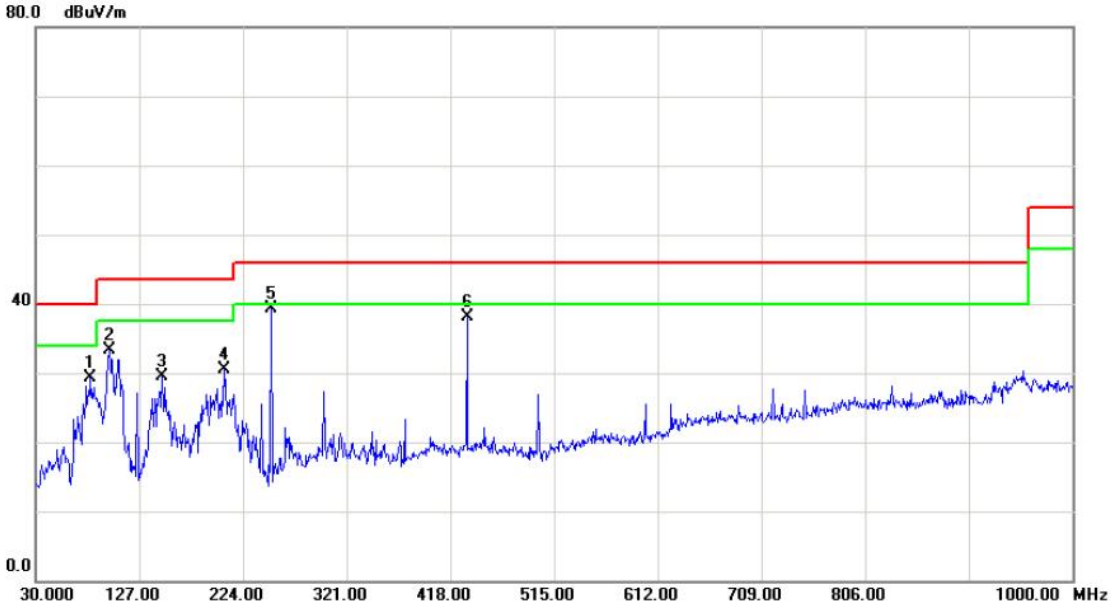
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		50.3700	45.31	-14.09	31.22	40.00	-8.78	peak	
2		100.8100	48.09	-16.30	31.79	43.50	-11.71	peak	
3		148.3400	42.76	-13.18	29.58	43.50	-13.92	peak	
4		247.2800	47.14	-14.03	33.11	46.00	-12.89	peak	
5	*	433.5200	46.75	-8.92	37.83	46.00	-8.17	peak	
6		500.4500	41.72	-10.50	31.22	46.00	-14.78	peak	

Test Mode:	TX B MODE CHANNEL 11-Internal Antenna

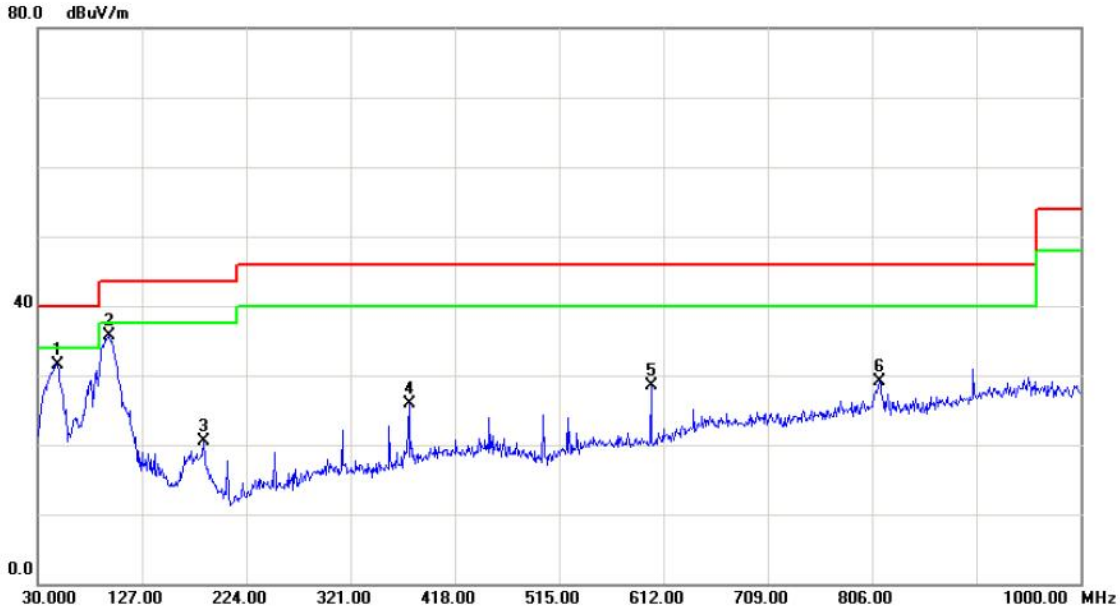
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		81.4100	46.45	-17.23	29.22	40.00	-10.78	peak	
2		98.8700	49.82	-16.55	33.27	43.50	-10.23	peak	
3		148.3400	42.73	-13.18	29.55	43.50	-13.95	peak	
4		206.5400	45.68	-15.27	30.41	43.50	-13.09	peak	
5	*	250.1900	53.23	-14.02	39.21	46.00	-6.79	peak	
6		433.5200	47.00	-8.92	38.08	46.00	-7.92	peak	

Test Mode:	TX B MODE CHANNEL 01-External Antenna

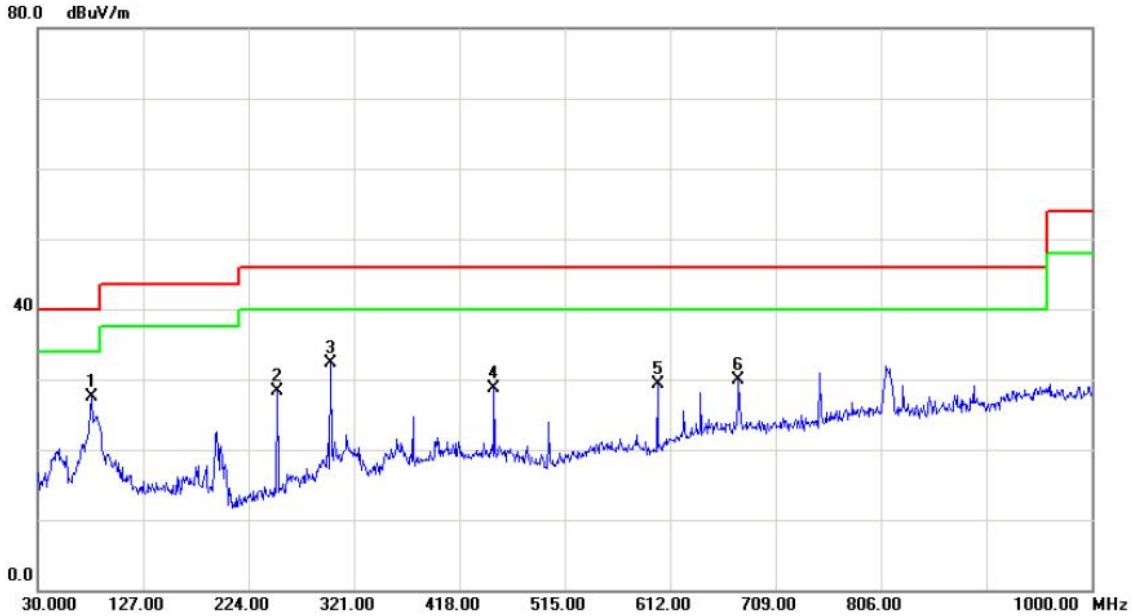
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48.4300	45.44	-13.93	31.51	40.00	-8.49	peak	
2	*	96.9300	52.57	-16.84	35.73	43.50	-7.77	peak	
3		184.2300	34.15	-13.57	20.58	43.50	-22.92	peak	
4		375.3200	36.46	-10.64	25.82	46.00	-20.18	peak	
5		600.3600	36.36	-7.89	28.47	46.00	-17.53	peak	
6		812.7900	32.01	-2.95	29.06	46.00	-16.94	peak	

Test Mode:	TX B MODE CHANNEL 01-External Antenna

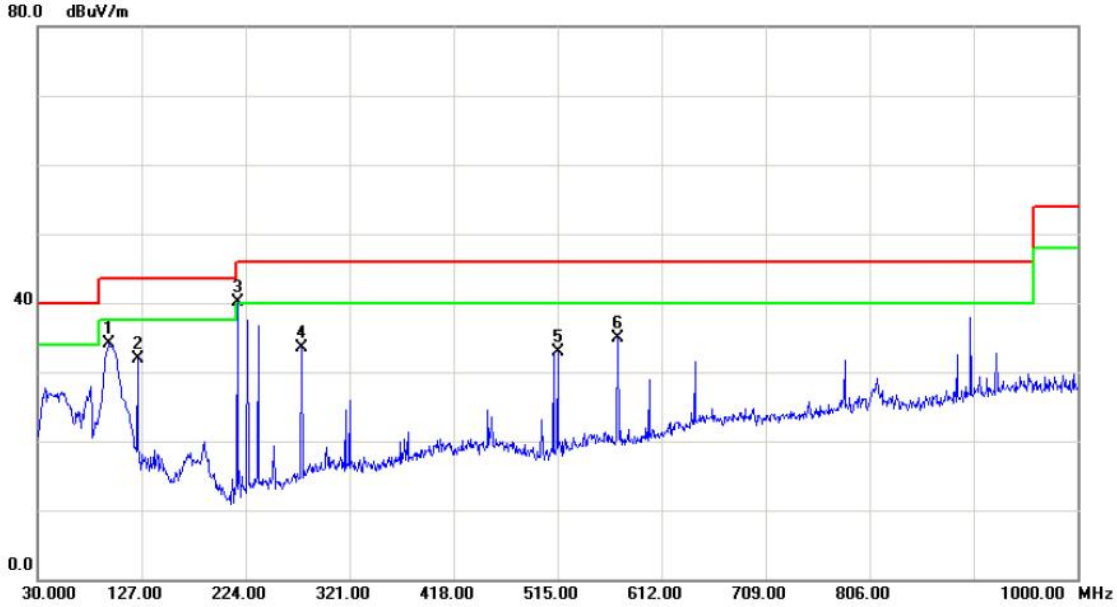
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	79.4700	44.50	-17.09	27.41	40.00	-12.59	peak	
2		250.1900	42.33	-14.02	28.31	46.00	-17.69	peak	
3		299.6600	43.30	-10.99	32.31	46.00	-13.69	peak	
4		450.0100	37.31	-8.62	28.69	46.00	-17.31	peak	
5		600.3600	37.28	-7.89	29.39	46.00	-16.61	peak	
6		675.0500	34.88	-5.04	29.84	46.00	-16.16	peak	

Test Mode:	TX B MODE CHANNEL 06-External Antenna

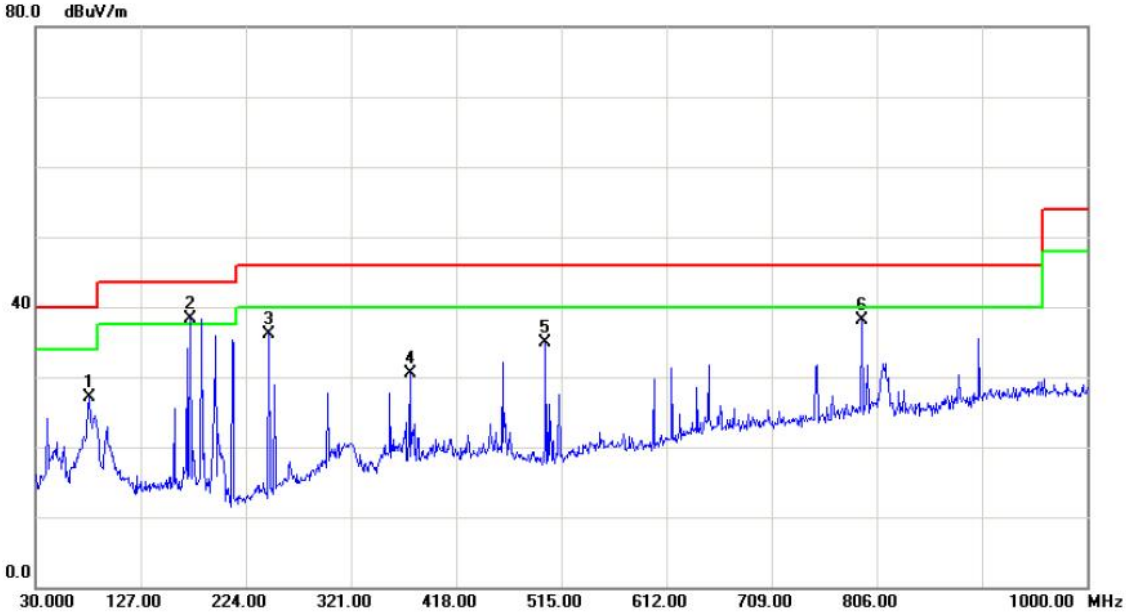
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		95.9600	51.01	-16.98	34.03	43.50	-9.47	peak	
2		123.1200	45.72	-13.85	31.87	43.50	-11.63	peak	
3	*	216.2400	55.22	-15.08	40.14	46.00	-5.86	peak	
4		276.3800	46.17	-12.63	33.54	46.00	-12.46	peak	
5		515.0000	42.69	-9.74	32.95	46.00	-13.05	peak	
6		571.2600	42.88	-7.92	34.96	46.00	-11.04	peak	

Test Mode:	TX B MODE CHANNEL 06-External Antenna

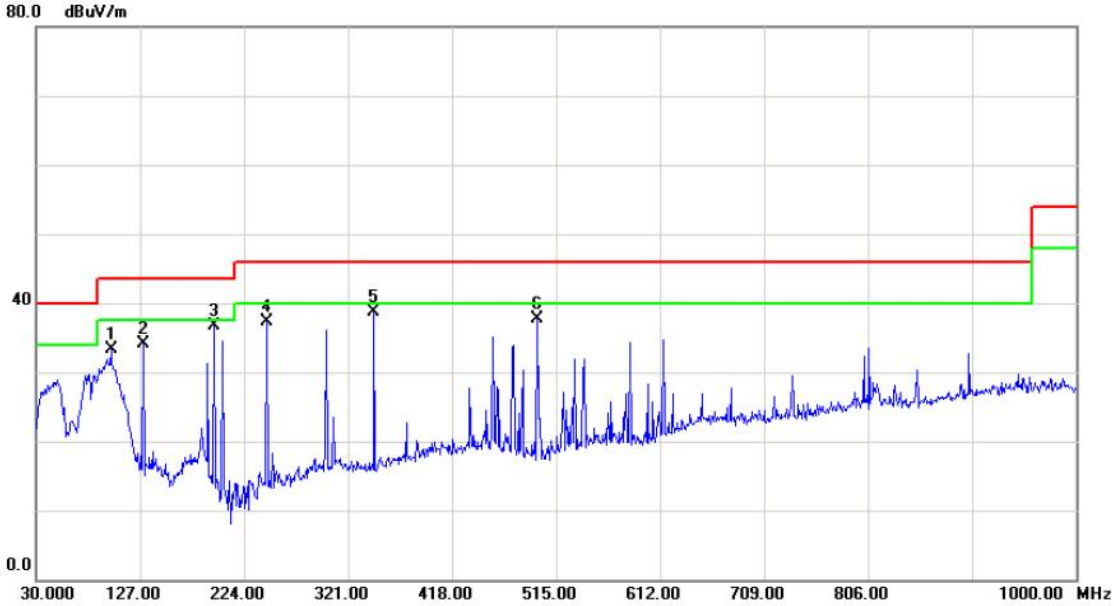
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		79.4700	44.21	-17.09	27.12	40.00	-12.88	peak	
2	*	172.5900	51.18	-12.81	38.37	43.50	-5.13	peak	
3		245.3400	50.22	-14.03	36.19	46.00	-9.81	peak	
4		375.3200	41.22	-10.64	30.58	46.00	-15.42	peak	
5		500.4500	45.41	-10.50	34.91	46.00	-11.09	peak	
6		792.4200	41.33	-3.16	38.17	46.00	-7.83	peak	

Test Mode:	TX B MODE CHANNEL 11-External Antenna

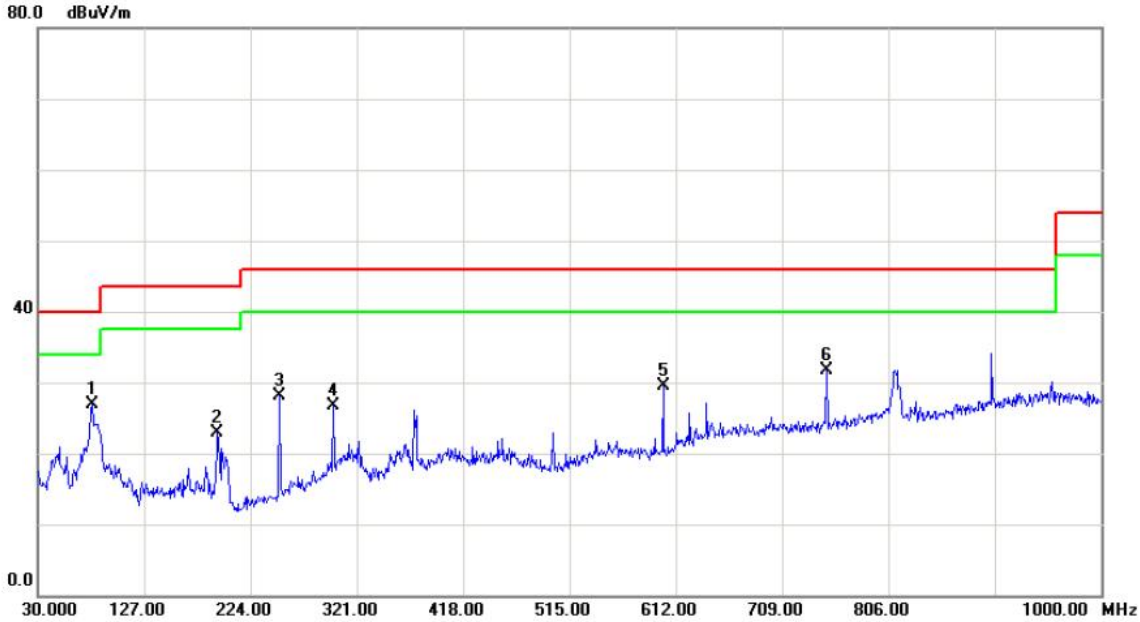
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		99.8400	49.74	-16.41	33.33	43.50	-10.17	peak	
2		129.9100	47.26	-13.07	34.19	43.50	-9.31	peak	
3	*	195.8700	51.40	-14.73	36.67	43.50	-6.83	peak	
4		245.3400	51.38	-14.03	37.35	46.00	-8.65	peak	
5		345.2500	50.35	-11.71	38.64	46.00	-7.36	peak	
6		497.5400	48.17	-10.43	37.74	46.00	-8.26	peak	

Test Mode:	TX B MODE CHANNEL 11-External Antenna

Horizontal

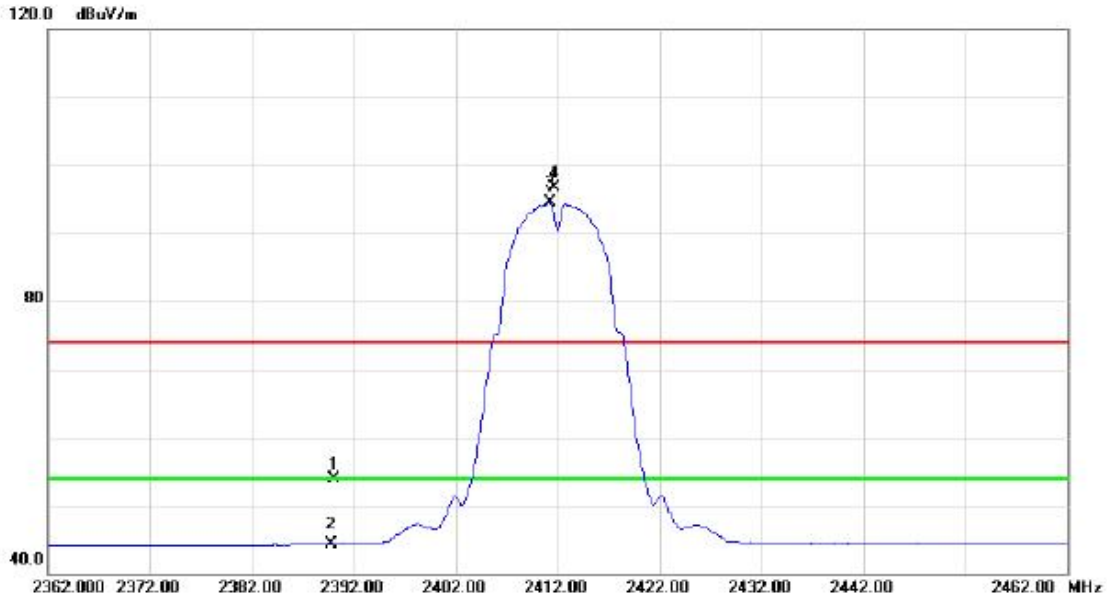


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	79.4700	43.90	-17.09	26.81	40.00	-13.19	peak	
2		193.9300	37.45	-14.59	22.86	43.50	-20.64	peak	
3		250.1900	42.13	-14.02	28.11	46.00	-17.89	peak	
4		299.6600	37.77	-10.99	26.78	46.00	-19.22	peak	
5		600.3600	37.32	-7.89	29.43	46.00	-16.57	peak	
6		749.7400	36.36	-4.63	31.73	46.00	-14.27	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz-Internal Antenna

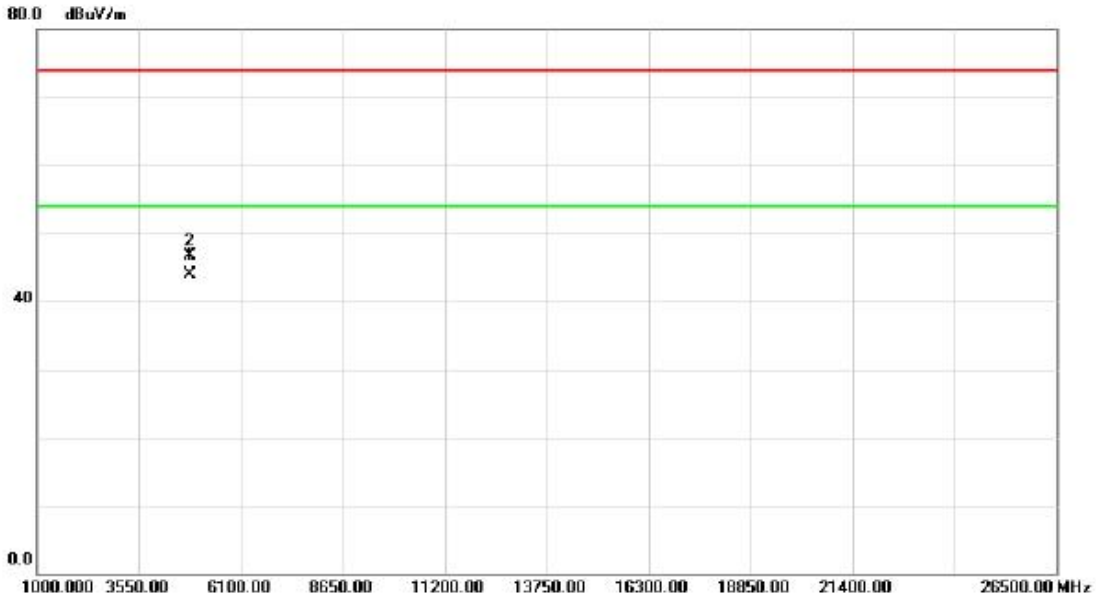
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	22.06	31.88	53.94	74.00	-20.06	peak	
2		2390.000	12.49	31.88	44.37	54.00	-9.63	AVG	
3	*	2411.200	62.64	31.91	94.55	54.00	40.55	AVG	No Limit
4	X	2411.600	64.89	31.91	96.80	74.00	22.80	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz-Internal Antenna

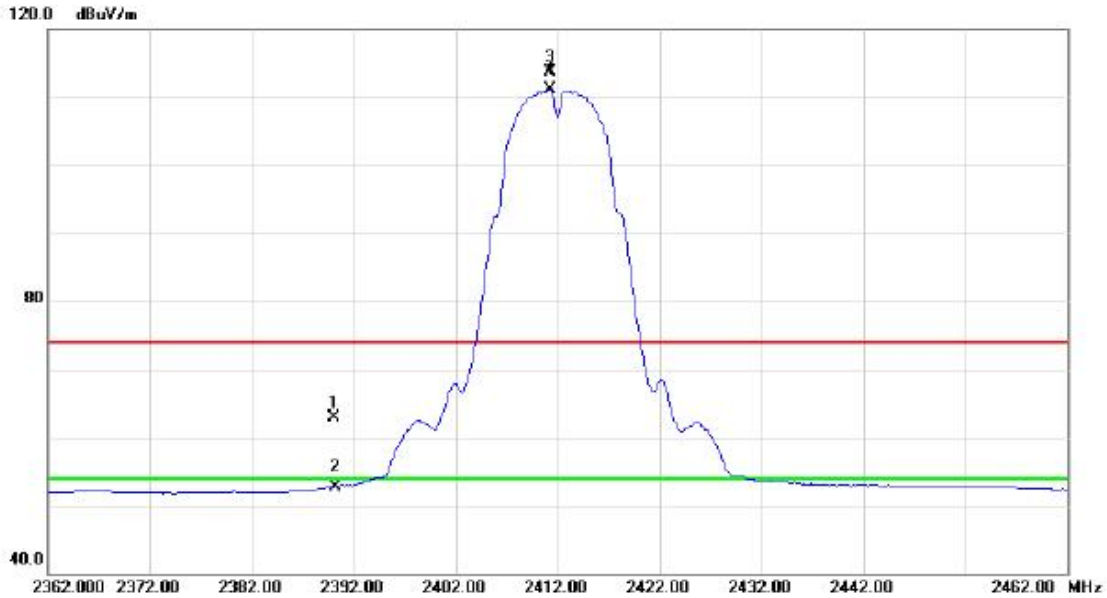
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.980	40.32	3.62	43.94	54.00	-10.06	AVG	
2		4824.120	43.17	3.62	46.79	74.00	-27.21	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz-Internal Antenna

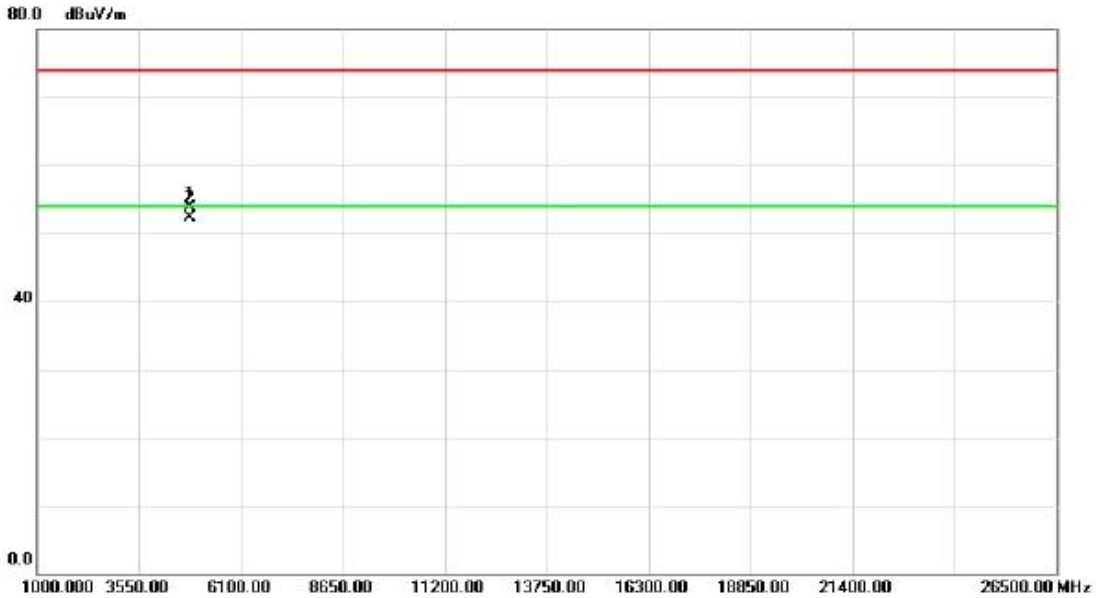
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	30.94	31.88	62.82	74.00	-11.18	peak	
2		2390.000	20.90	31.88	52.78	54.00	-1.22	AVG	
3	X	2411.200	81.77	31.91	113.68	74.00	39.68	peak	No Limit
4	*	2411.300	79.24	31.91	111.15	54.00	57.15	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz-Internal Antenna

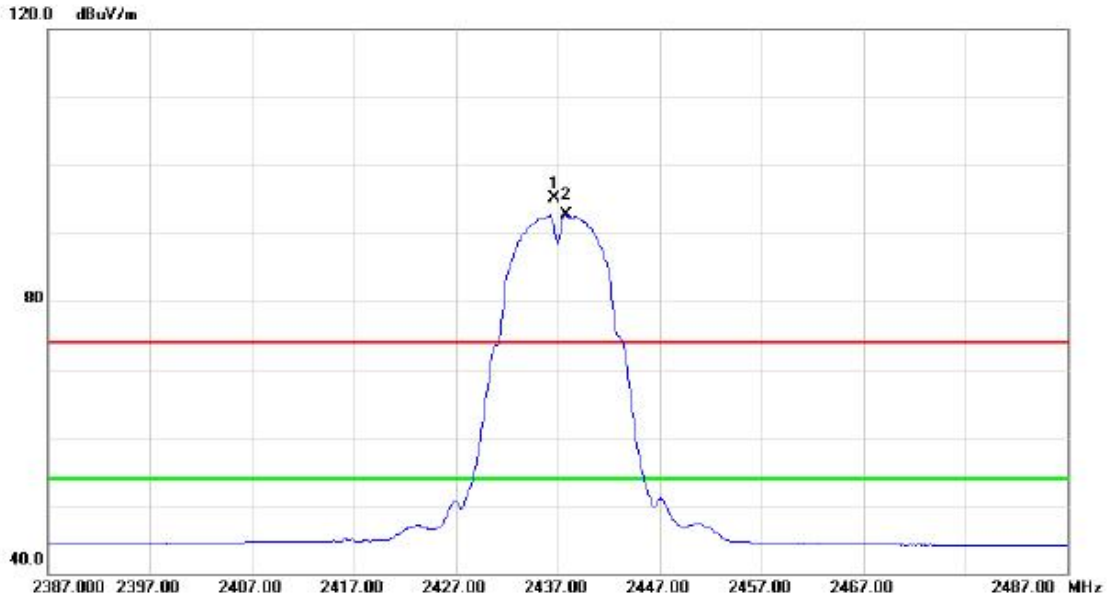
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.900	50.01	3.62	53.63	74.00	-20.37	peak	
2	*	4824.040	48.69	3.62	52.31	54.00	-1.69	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz-Internal Antenna

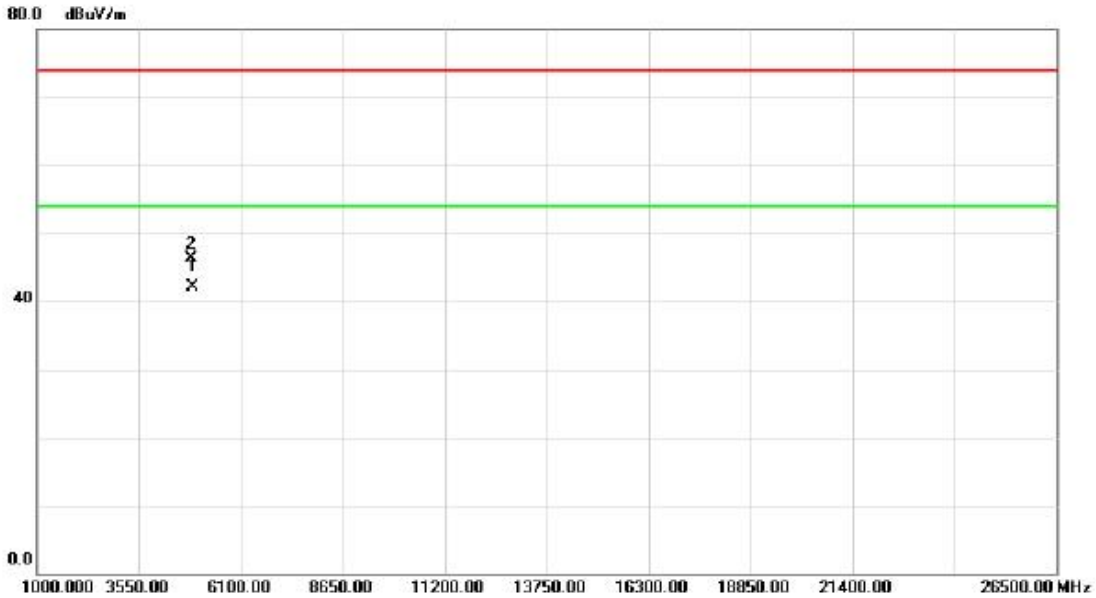
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2436.600	63.07	31.94	95.01	74.00	21.01	peak	No Limit
2	*	2437.800	60.71	31.94	92.65	54.00	38.65	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz-Internal Antenna

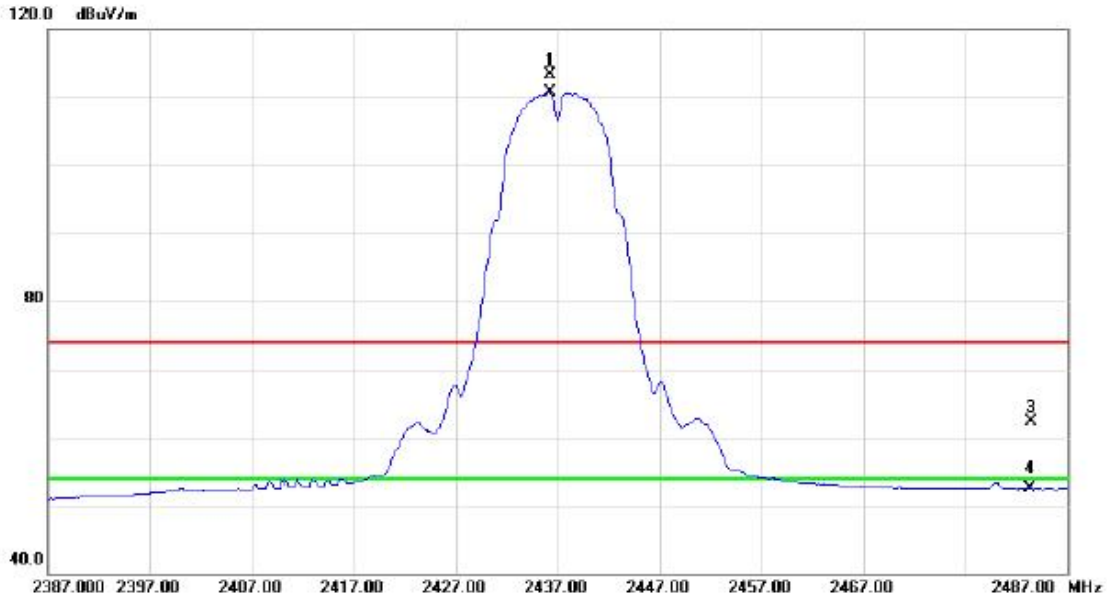
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.020	38.40	3.72	42.12	54.00	-11.88	AVG	
2		4874.040	42.61	3.72	46.33	74.00	-27.67	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz-Internal Antenna

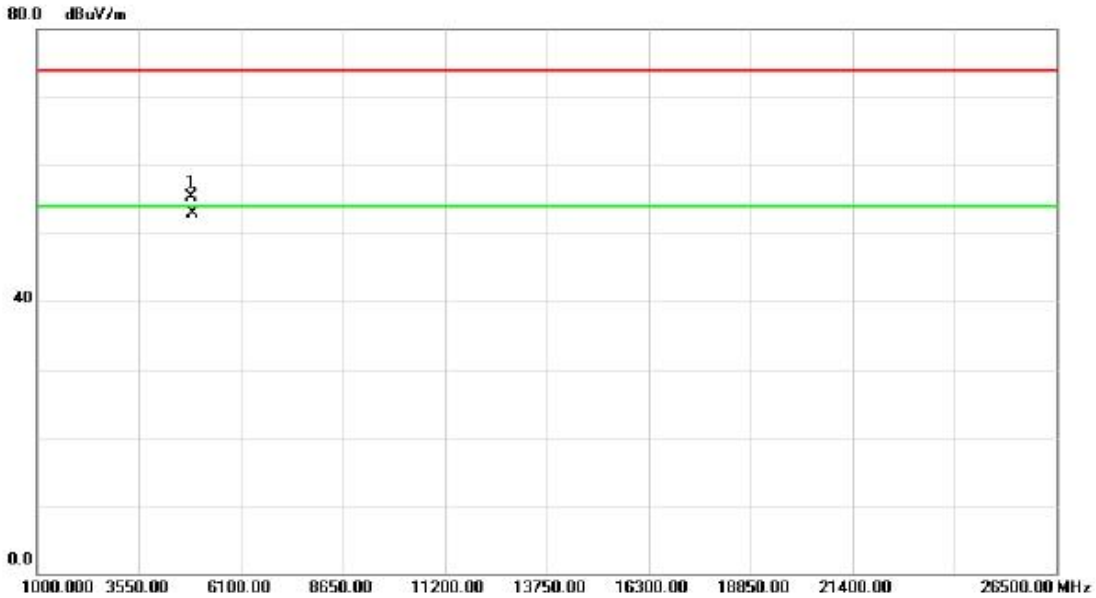
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2436.200	81.34	31.94	113.28	74.00	39.28	peak	No Limit
2	*	2436.200	78.74	31.94	110.68	54.00	56.68	AVG	No Limit
3		2483.500	30.37	32.01	62.38	74.00	-11.62	peak	
4		2483.500	20.41	32.01	52.42	54.00	-1.58	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz-Internal Antenna

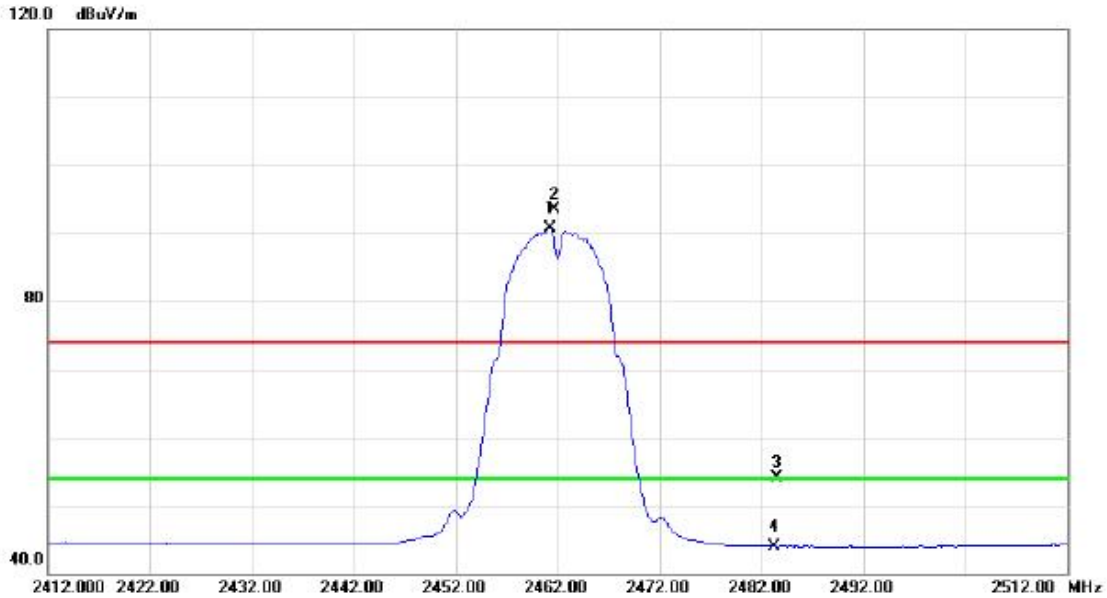
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.960	51.58	3.72	55.30	74.00	-18.70	peak	
2	*	4874.000	49.24	3.72	52.96	54.00	-1.04	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz-Internal Antenna

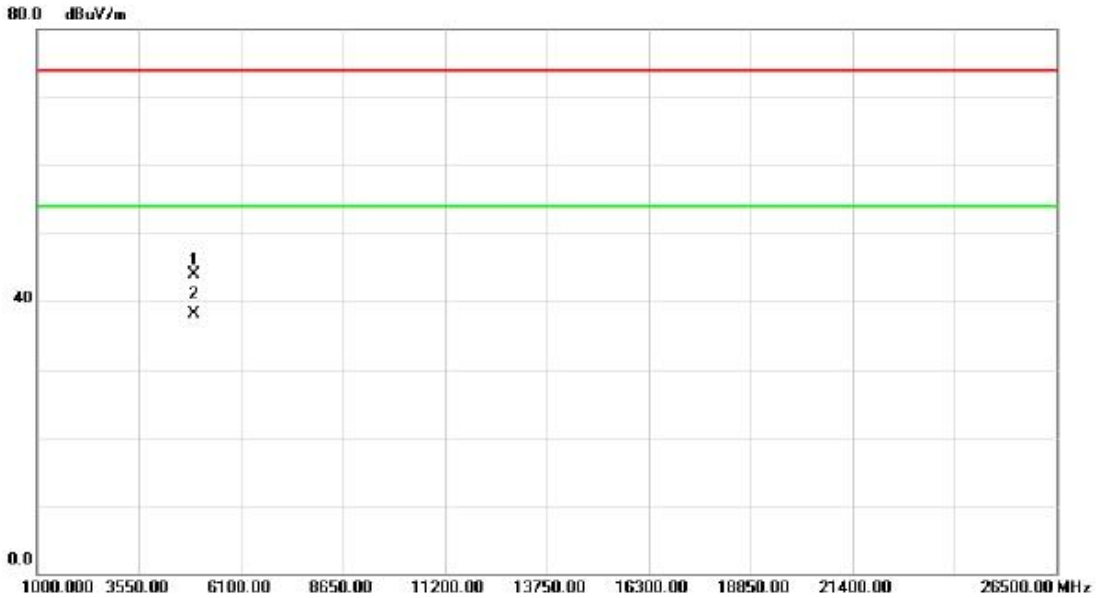
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2461.200	58.78	31.98	90.76	54.00	36.76	AVG	No Limit
2	X	2461.600	61.57	31.98	93.55	74.00	19.55	peak	No Limit
3		2483.500	22.03	32.01	54.04	74.00	-19.96	peak	
4		2483.500	11.96	32.01	43.97	54.00	-10.03	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz-Internal Antenna

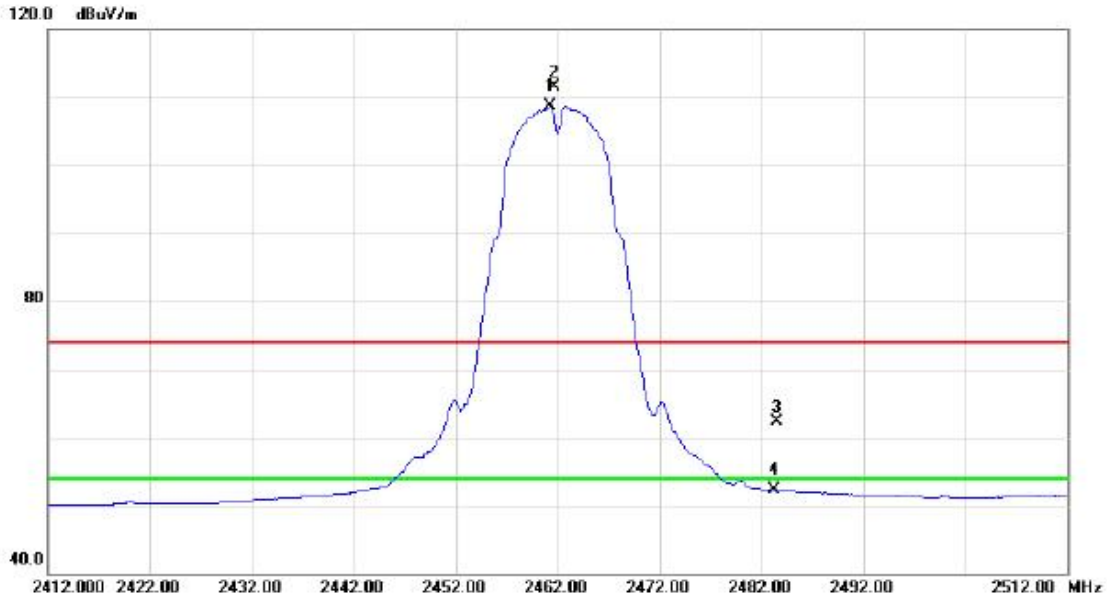
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.880	40.18	3.80	43.98	74.00	-30.02	peak	
2	*	4923.960	34.31	3.80	38.11	54.00	-15.89	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz-Internal Antenna

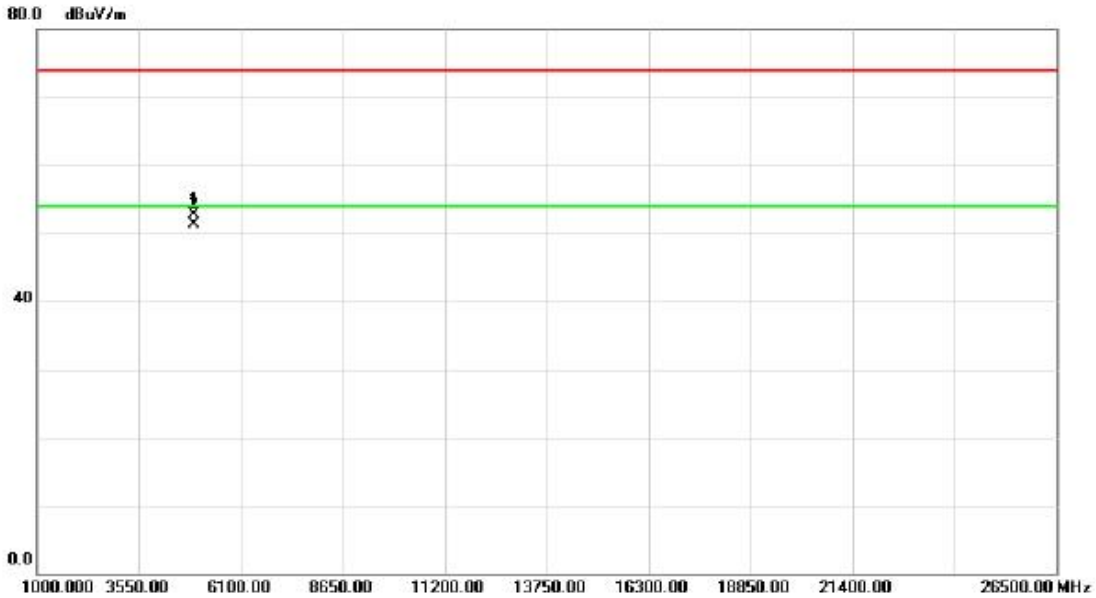
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2461.300	76.76	31.98	108.74	54.00	54.74	AVG	No Limit
2	X	2461.600	79.54	31.98	111.52	74.00	37.52	peak	No Limit
3		2483.500	30.34	32.01	62.35	74.00	-11.65	peak	
4		2483.500	20.20	32.01	52.21	54.00	-1.79	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz-Internal Antenna

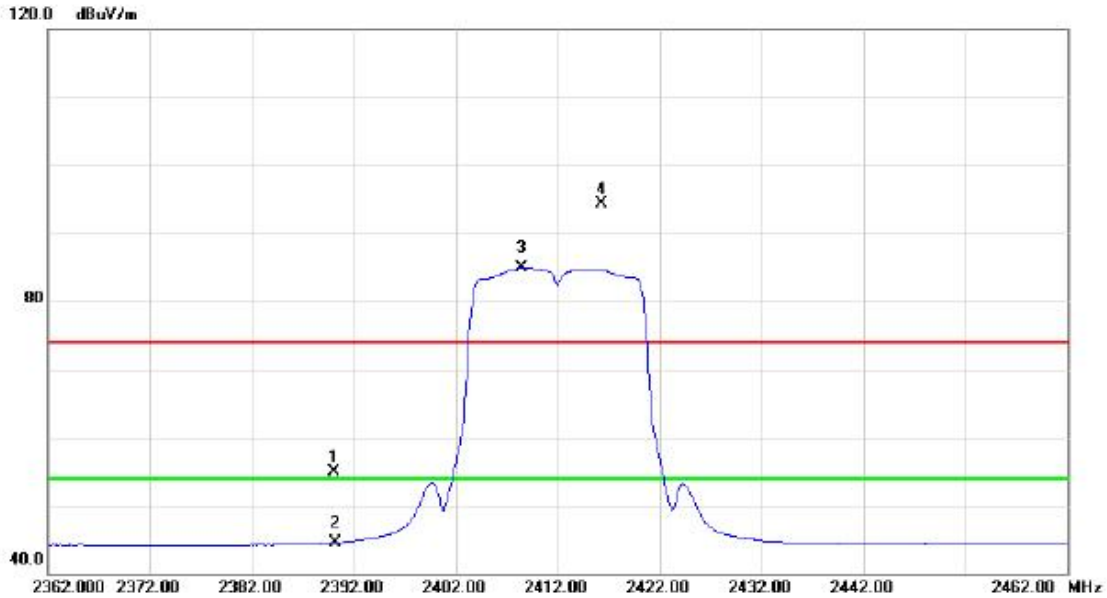
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.940	48.90	3.80	52.70	74.00	-21.30	peak	
2	*	4924.000	47.46	3.80	51.26	54.00	-2.74	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz-Internal Antenna

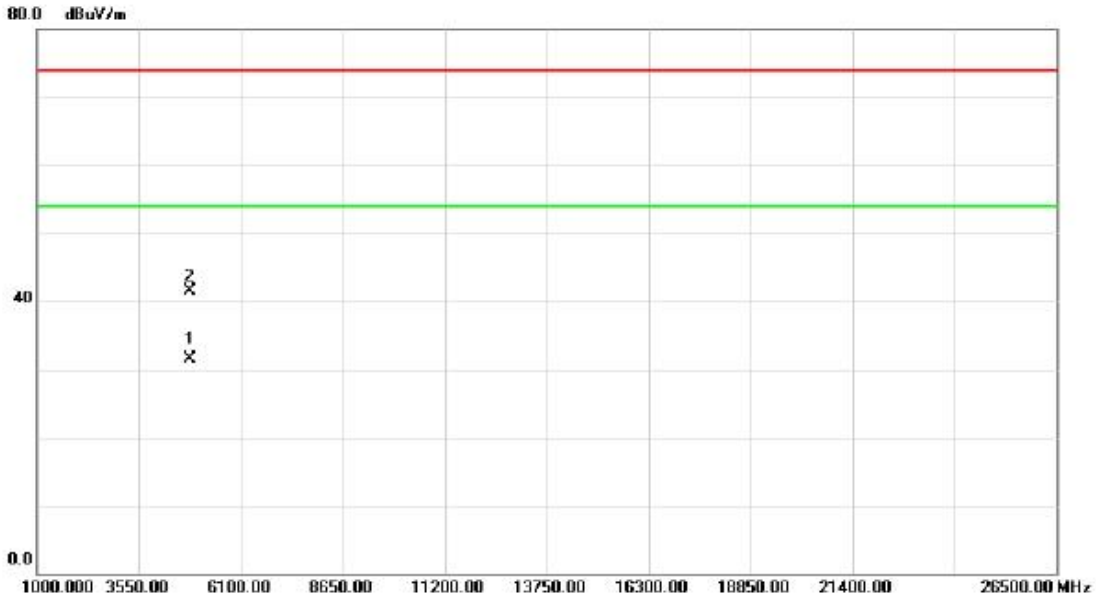
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.00	31.88	54.88	74.00	-19.12	peak	
2		2390.000	12.61	31.88	44.49	54.00	-9.51	AVG	
3	*	2408.500	53.00	31.91	84.91	54.00	30.91	AVG	No Limit
4	X	2416.300	62.42	31.91	94.33	74.00	20.33	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz-Internal Antenna

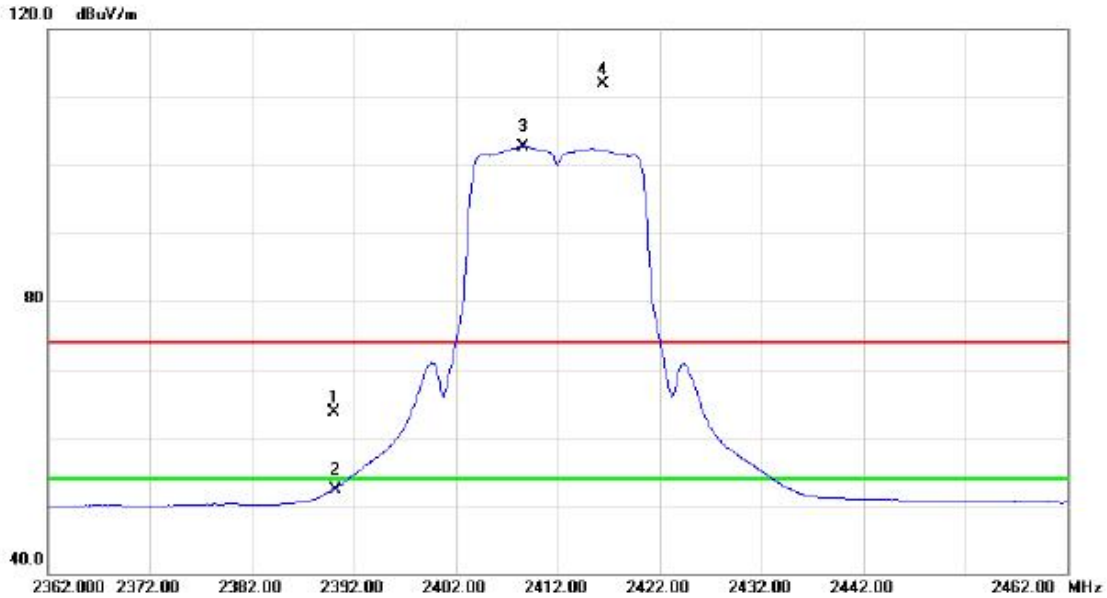
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.680	27.80	3.62	31.42	54.00	-22.58	AVG	
2		4824.460	37.93	3.62	41.55	74.00	-32.45	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz-Internal Antenna

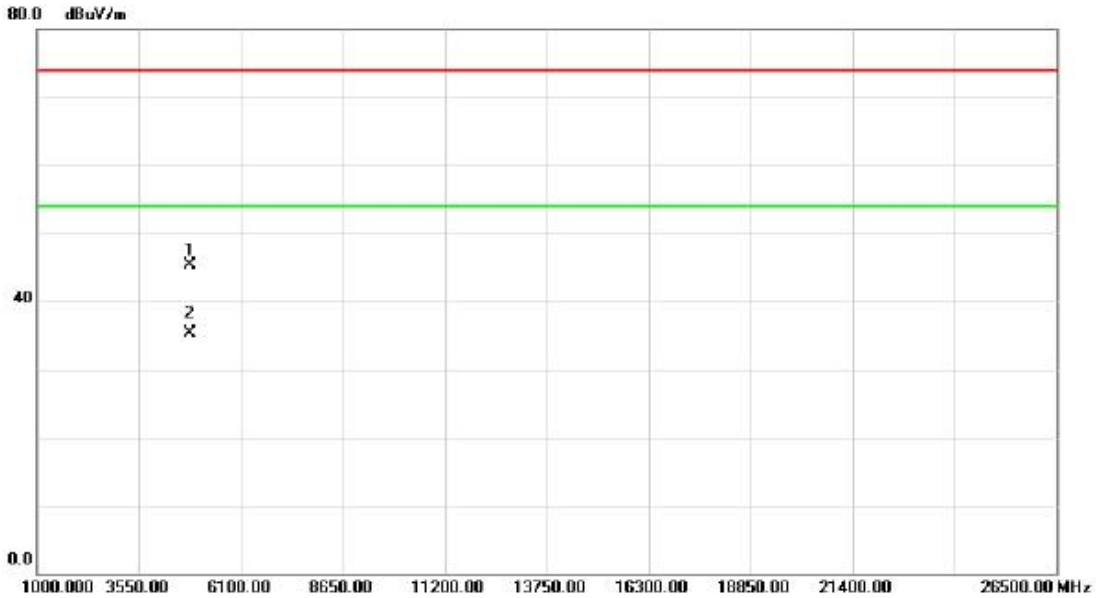
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	31.82	31.88	63.70	74.00	-10.30	peak	
2		2390.000	20.49	31.88	52.37	54.00	-1.63	AVG	
3	*	2408.600	70.76	31.91	102.67	54.00	48.67	AVG	No Limit
4	X	2416.500	80.04	31.91	111.95	74.00	37.95	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz-Internal Antenna

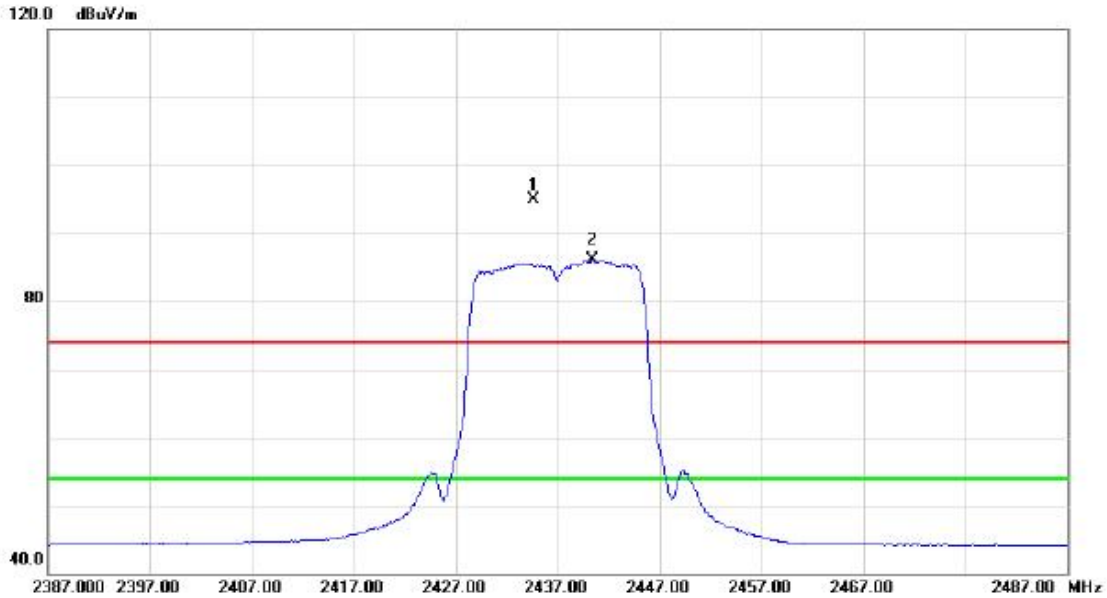
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.260	41.75	3.62	45.37	74.00	-28.63	peak	
2	*	4824.000	31.67	3.62	35.29	54.00	-18.71	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz-Internal Antenna

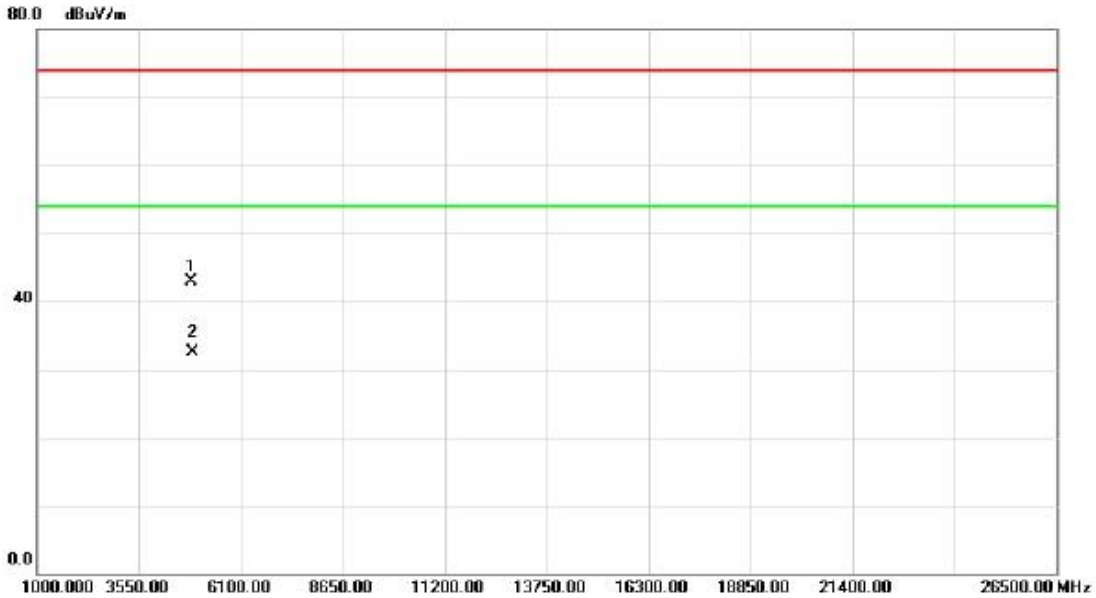
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2434.700	62.99	31.94	94.93	74.00	20.93	peak	No Limit
2	*	2440.400	54.24	31.95	86.19	54.00	32.19	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz-Internal Antenna

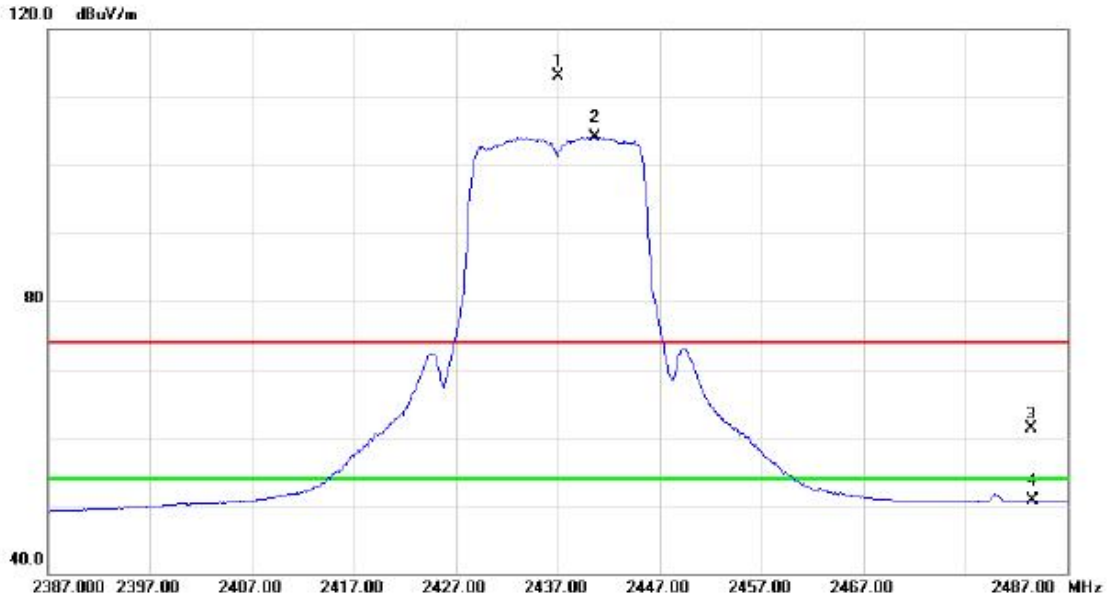
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.280	39.17	3.72	42.89	74.00	-31.11	peak	
2	*	4874.320	28.71	3.72	32.43	54.00	-21.57	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz-Internal Antenna

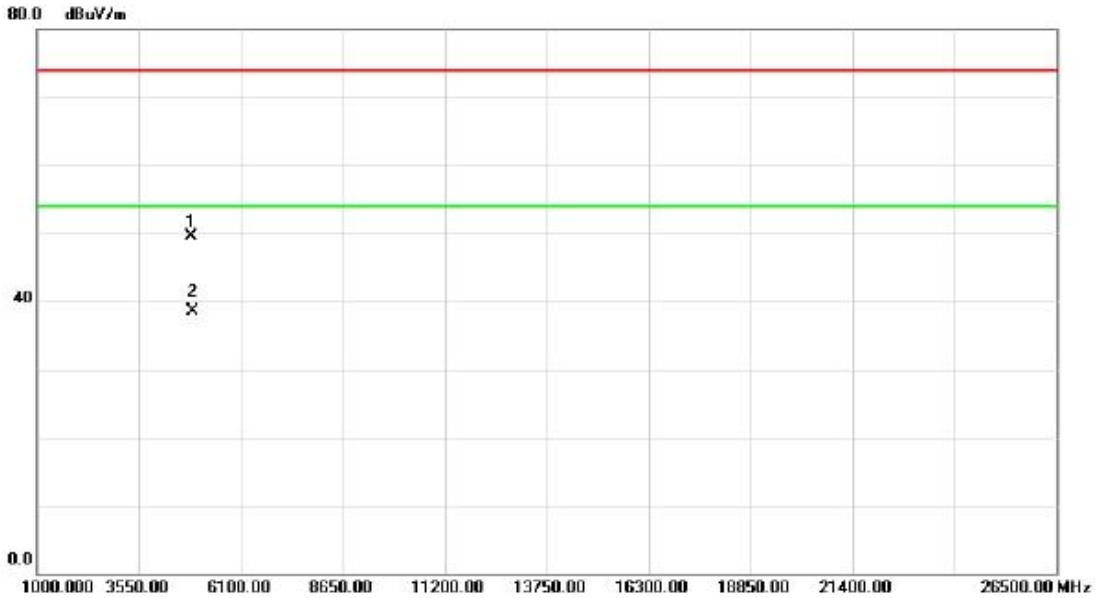
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2437.100	81.23	31.94	113.17	74.00	39.17	peak	No Limit
2	*	2440.700	72.25	31.95	104.20	54.00	50.20	AVG	No Limit
3		2483.500	29.29	32.01	61.30	74.00	-12.70	peak	
4		2483.500	18.62	32.01	50.63	54.00	-3.37	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz-Internal Antenna

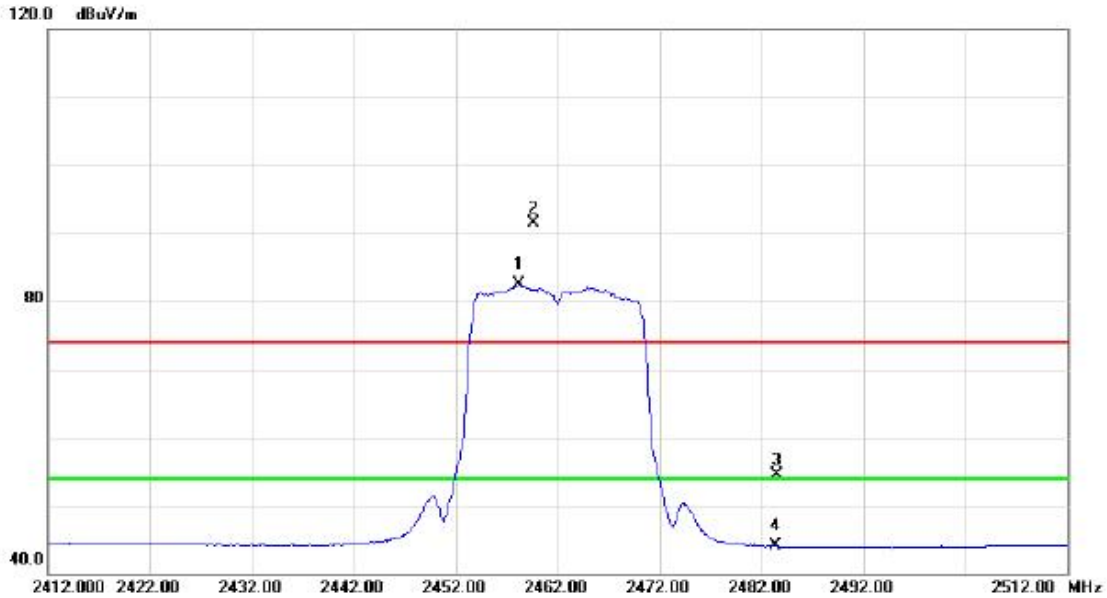
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.160	45.78	3.72	49.50	74.00	-24.50	peak	
2	*	4874.200	34.72	3.72	38.44	54.00	-15.56	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz-Internal Antenna

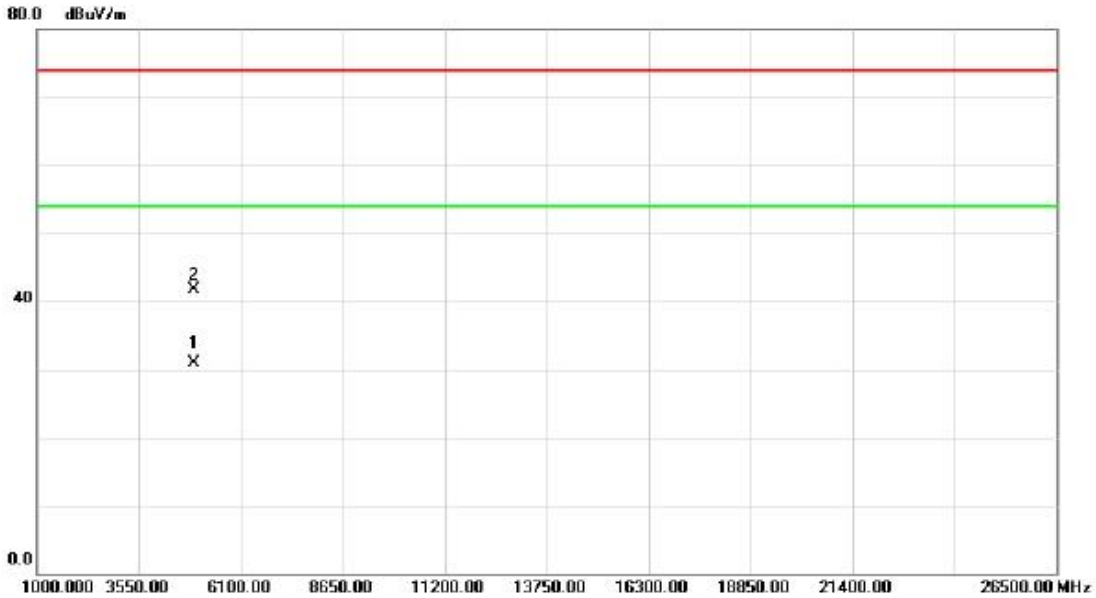
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2458.200	50.44	31.98	82.42	54.00	28.42	AVG	No Limit
2	X	2459.600	59.48	31.98	91.46	74.00	17.46	peak	No Limit
3		2483.500	22.54	32.01	54.55	74.00	-19.45	peak	
4		2483.500	12.02	32.01	44.03	54.00	-9.97	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz-Internal Antenna

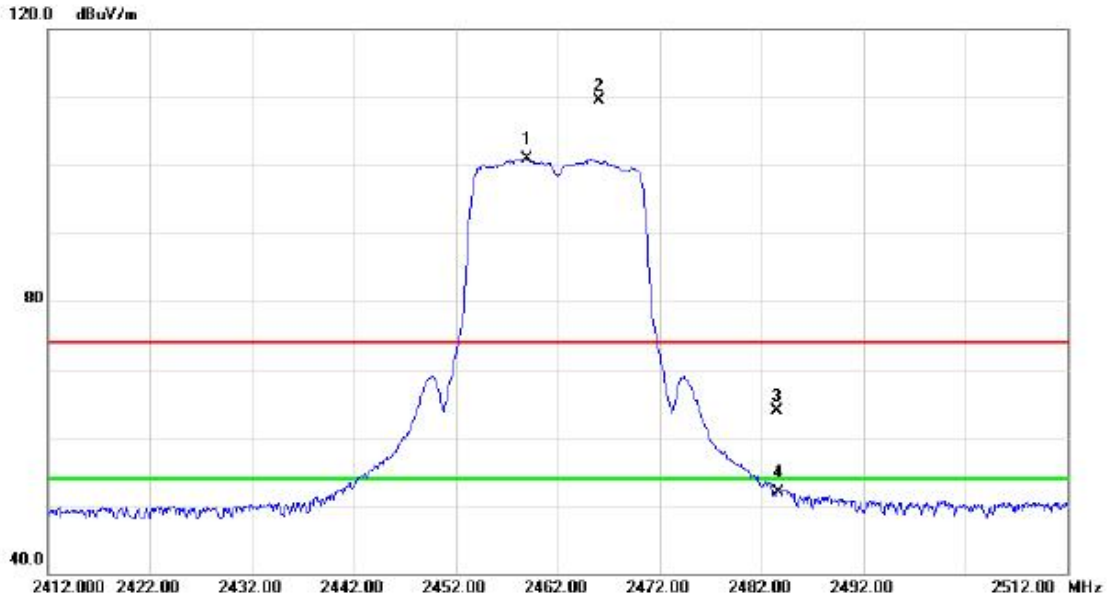
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.840	27.10	3.80	30.90	54.00	-23.10	AVG	
2		4924.220	37.85	3.80	41.65	74.00	-32.35	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz-Internal Antenna

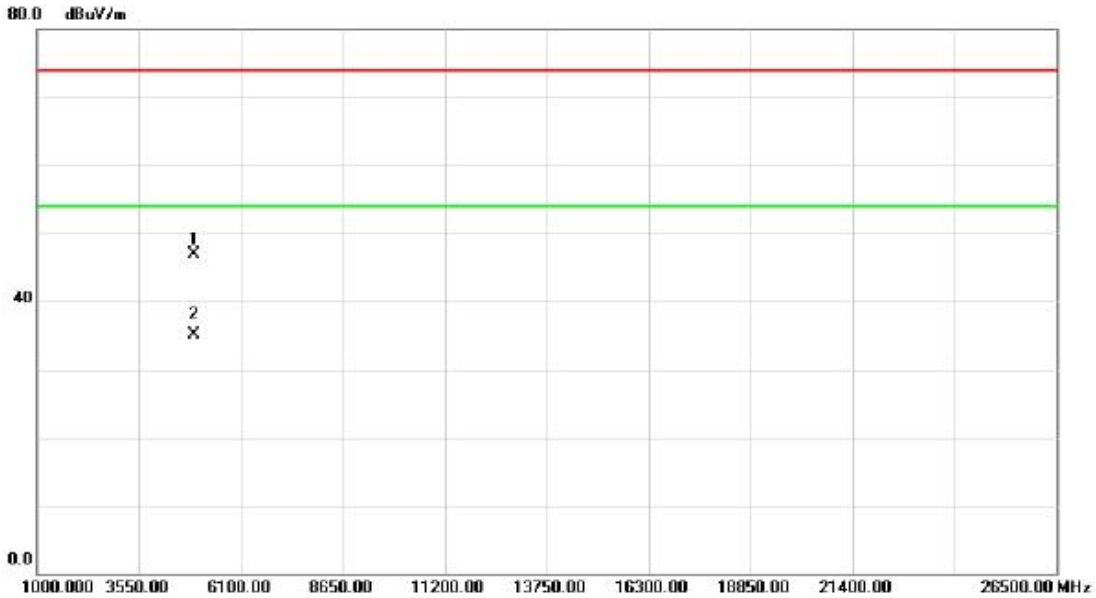
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2459.000	69.01	31.98	100.99	54.00	46.99	AVG	No Limit
2	X	2466.100	77.47	31.98	109.45	74.00	35.45	peak	No Limit
3		2483.500	31.90	32.01	63.91	74.00	-10.09	peak	
4		2483.500	19.92	32.01	51.93	54.00	-2.07	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz-Internal Antenna

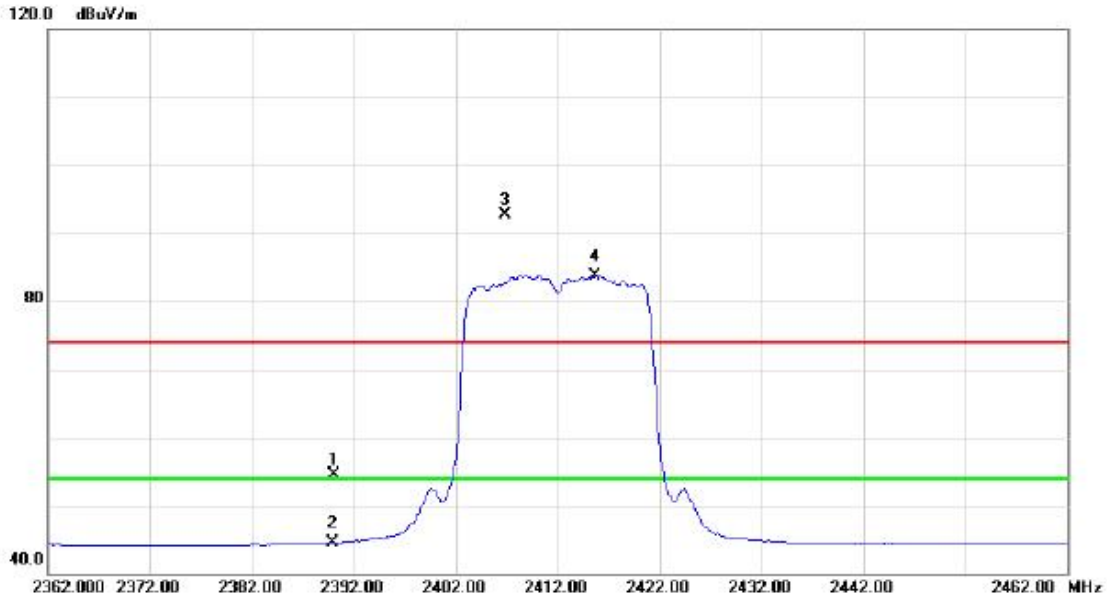
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.300	43.01	3.80	46.81	74.00	-27.19	peak	
2	*	4924.720	31.35	3.80	35.15	54.00	-18.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz-Internal Antenna

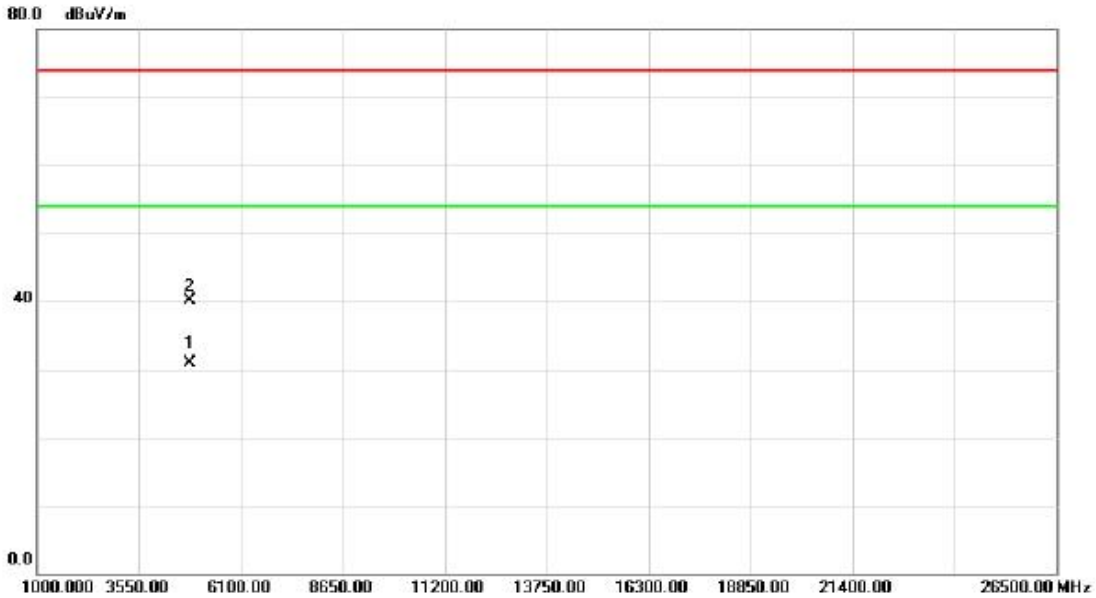
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	22.55	31.88	54.43	74.00	-19.57	peak	
2		2390.000	12.66	31.88	44.54	54.00	-9.46	AVG	
3	X	2406.900	60.72	31.91	92.63	74.00	18.63	peak	No Limit
4	*	2415.700	51.89	31.91	83.80	54.00	29.80	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz-Internal Antenna

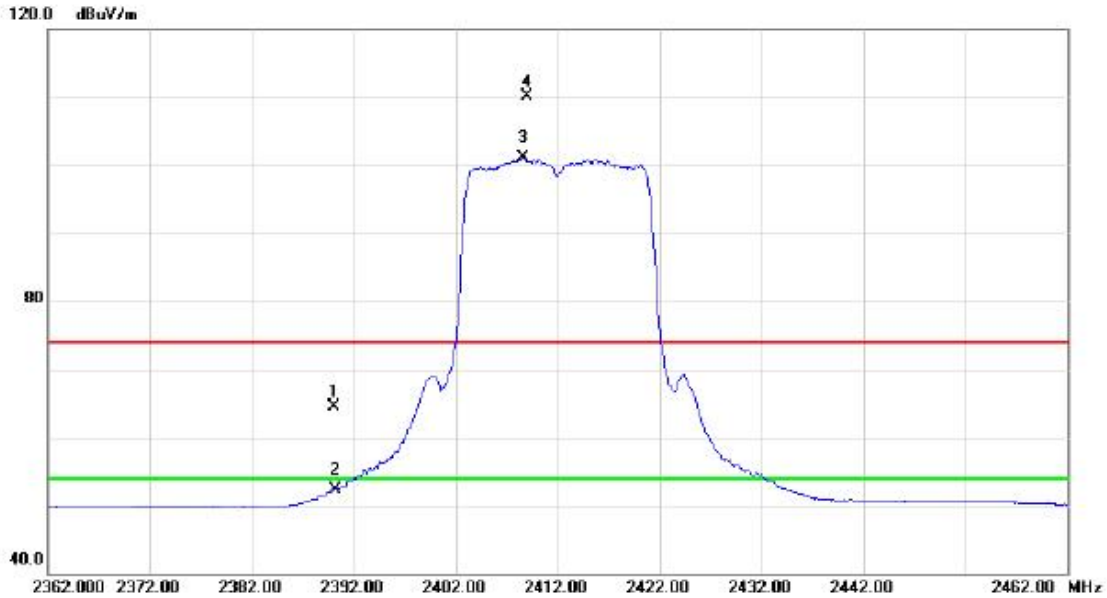
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.080	27.35	3.62	30.97	54.00	-23.03	AVG	
2		4824.340	36.39	3.62	40.01	74.00	-33.99	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz-Internal Antenna

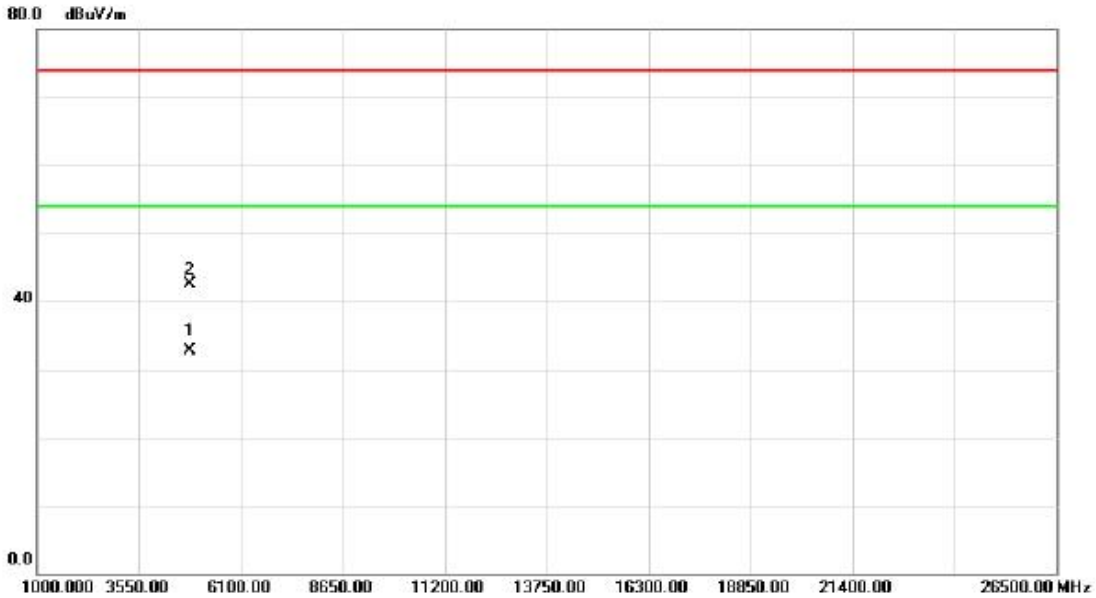
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	32.58	31.88	64.46	74.00	-9.54	peak	
2		2390.000	20.42	31.88	52.30	54.00	-1.70	AVG	
3	*	2408.600	69.13	31.91	101.04	54.00	47.04	AVG	No Limit
4	X	2409.000	78.25	31.91	110.16	74.00	36.16	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz-Internal Antenna

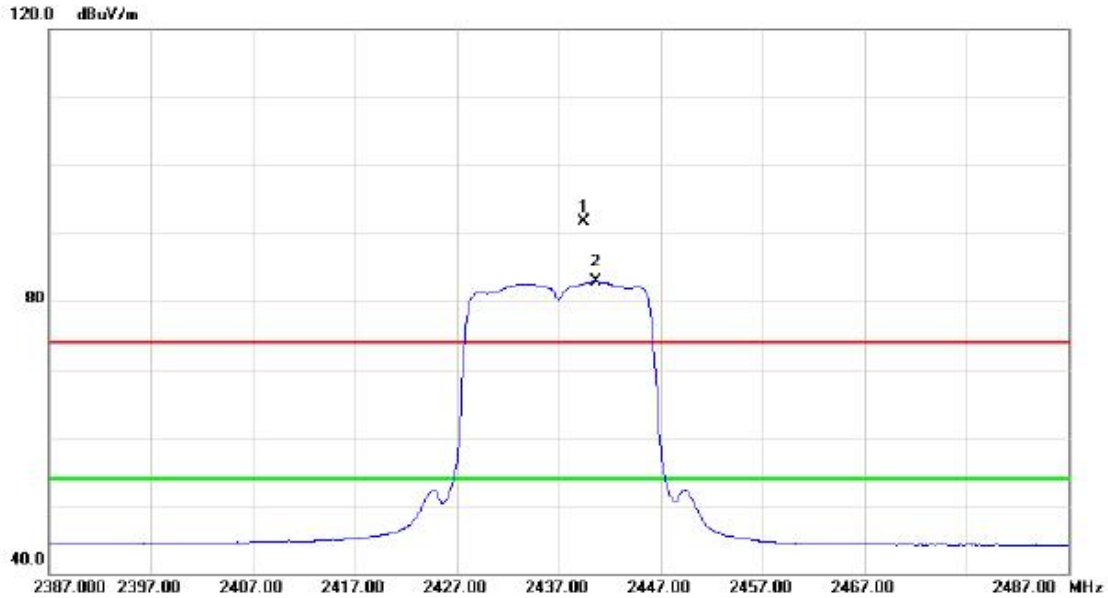
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.940	29.18	3.62	32.80	54.00	-21.20	AVG	
2		4824.460	38.97	3.62	42.59	74.00	-31.41	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz-Internal Antenna

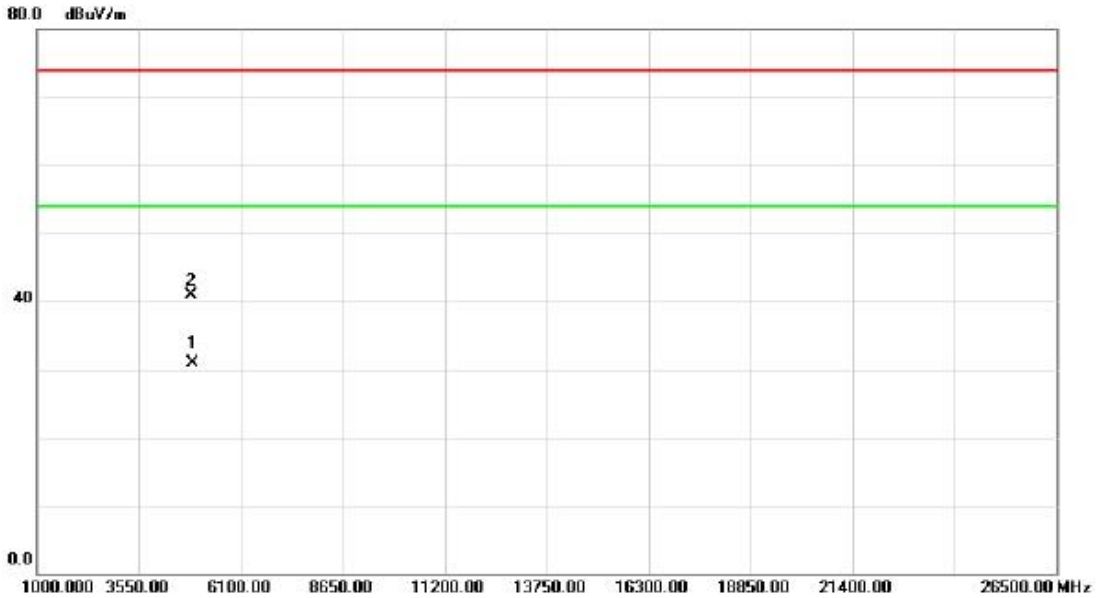
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2439.500	59.76	31.94	91.70	74.00	17.70	peak	No Limit
2	*	2440.700	50.87	31.95	82.82	54.00	28.82	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz-Internal Antenna

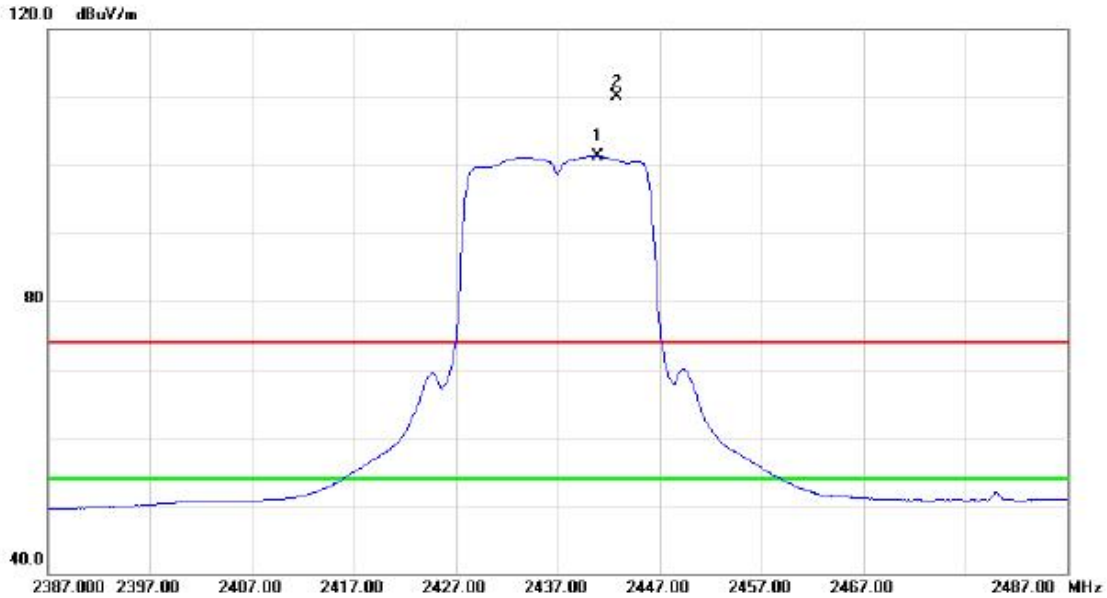
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.900	27.28	3.72	31.00	54.00	-23.00	AVG	
2		4875.580	37.27	3.72	40.99	74.00	-33.01	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz-Internal Antenna

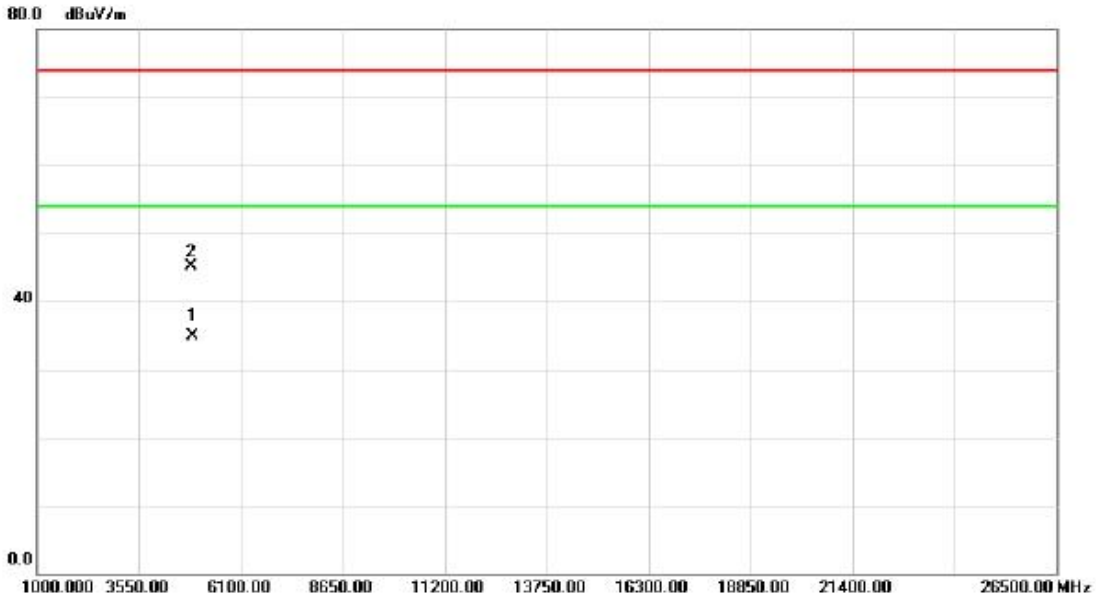
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2440.900	69.38	31.95	101.33	54.00	47.33	AVG	No Limit
2	X	2442.800	78.11	31.95	110.06	74.00	36.06	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz-Internal Antenna

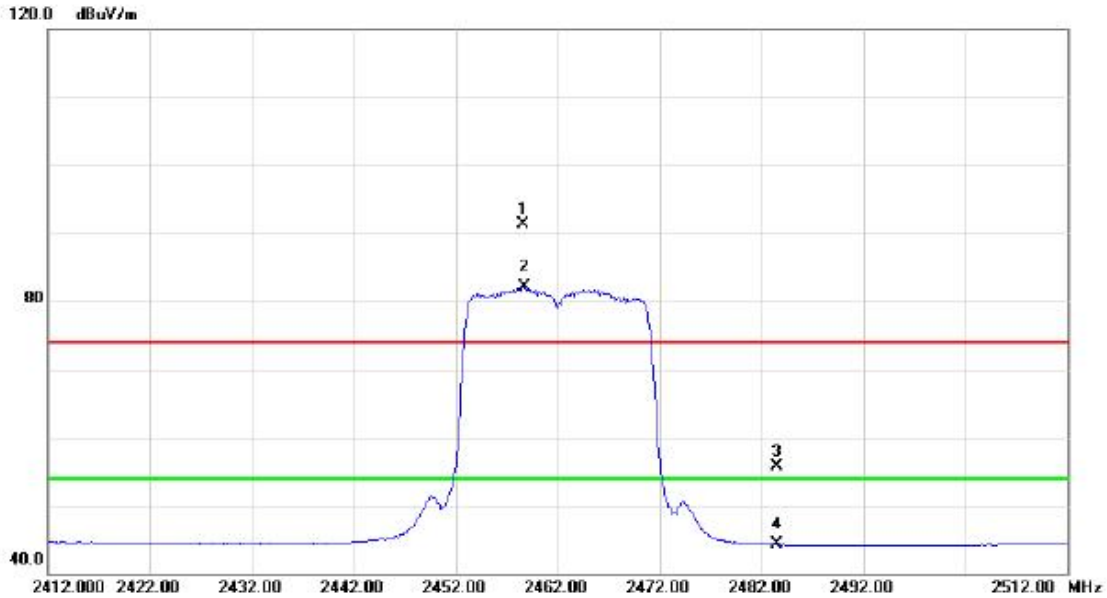
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.060	31.23	3.72	34.95	54.00	-19.05	AVG	
2		4875.060	41.29	3.72	45.01	74.00	-28.99	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz-Internal Antenna

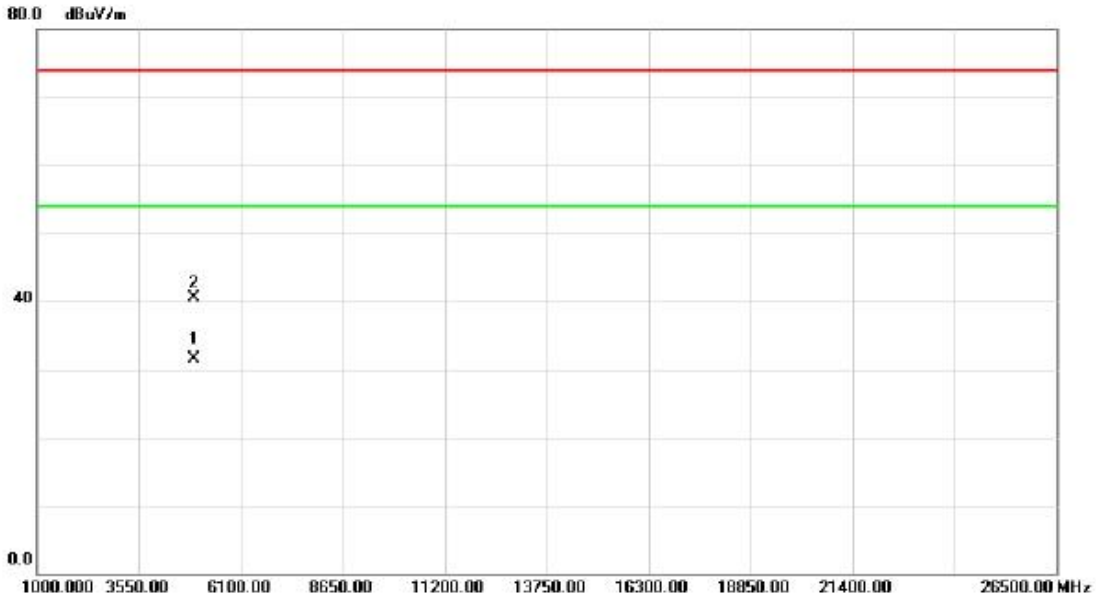
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2458.600	59.29	31.98	91.27	74.00	17.27	peak	No Limit
2	*	2458.700	50.16	31.98	82.14	54.00	28.14	AVG	No Limit
3		2483.500	23.75	32.01	55.76	74.00	-18.24	peak	
4		2483.500	12.26	32.01	44.27	54.00	-9.73	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz-Internal Antenna

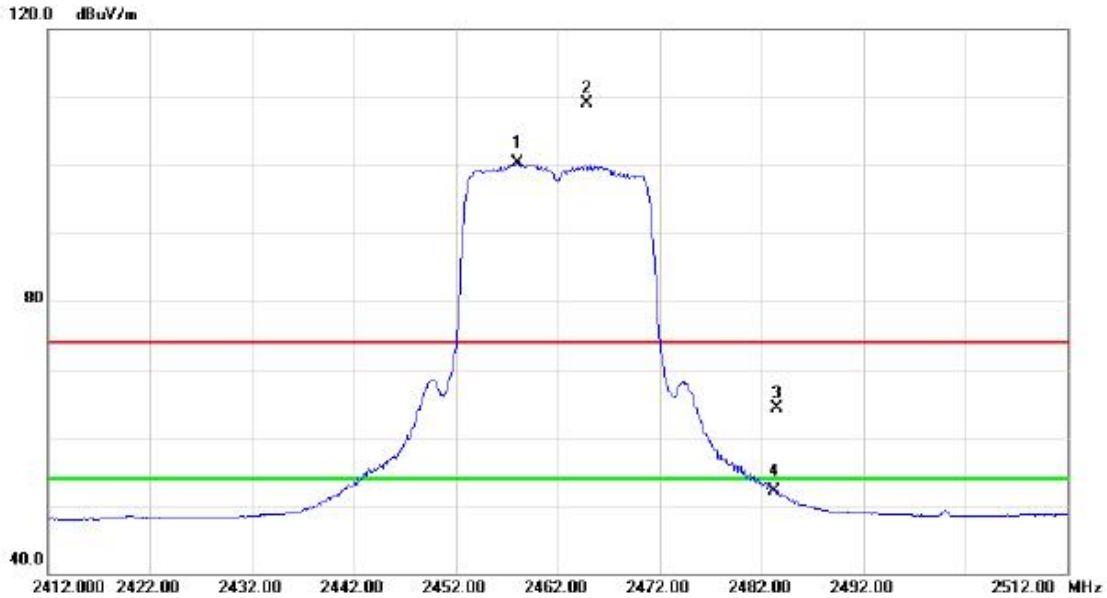
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.820	27.65	3.80	31.45	54.00	-22.55	AVG	
2		4924.540	36.62	3.80	40.42	74.00	-33.58	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz-Internal Antenna

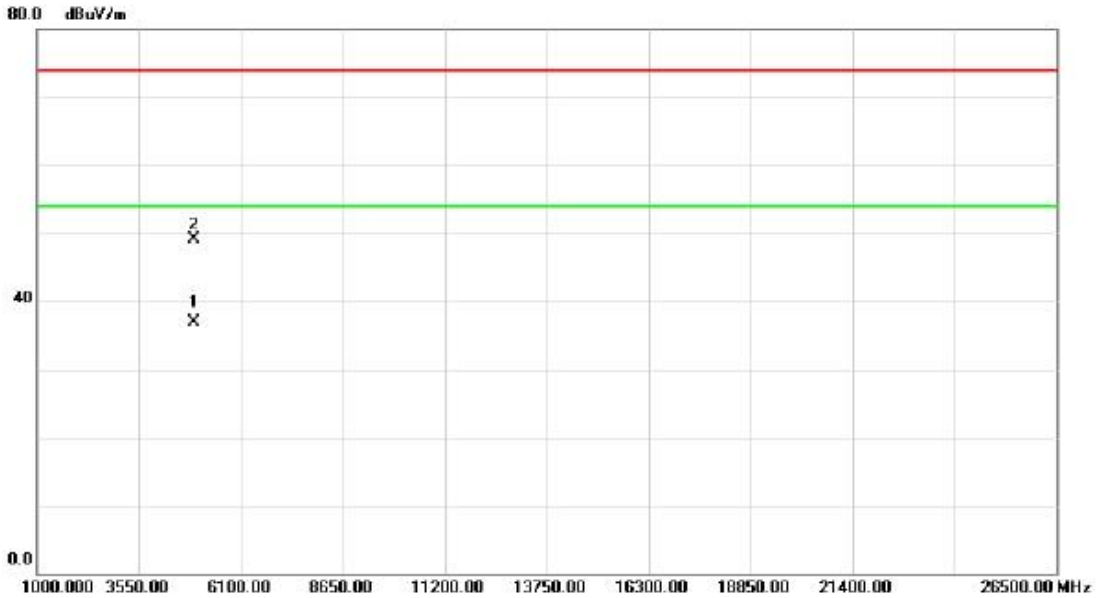
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2458.100	68.35	31.98	100.33	54.00	46.33	AVG	No Limit
2	X	2464.800	77.15	31.98	109.13	74.00	35.13	peak	No Limit
3		2483.500	32.33	32.01	64.34	74.00	-9.66	peak	
4		2483.500	20.03	32.01	52.04	54.00	-1.96	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz-Internal Antenna

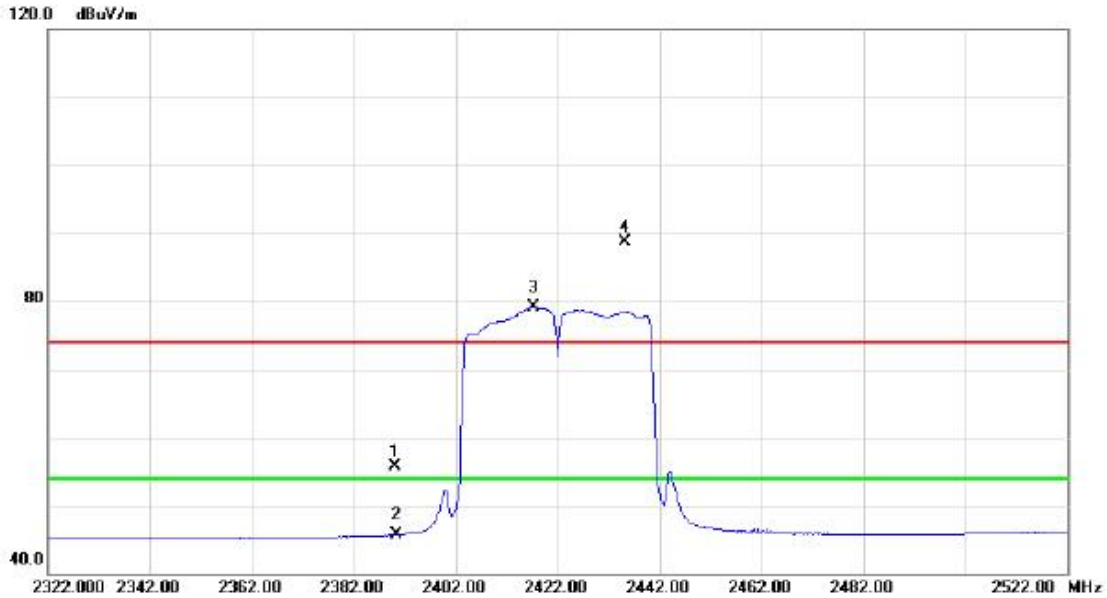
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.880	33.06	3.80	36.86	54.00	-17.14	AVG	
2		4924.060	45.26	3.80	49.06	74.00	-24.94	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz-Internal Antenna

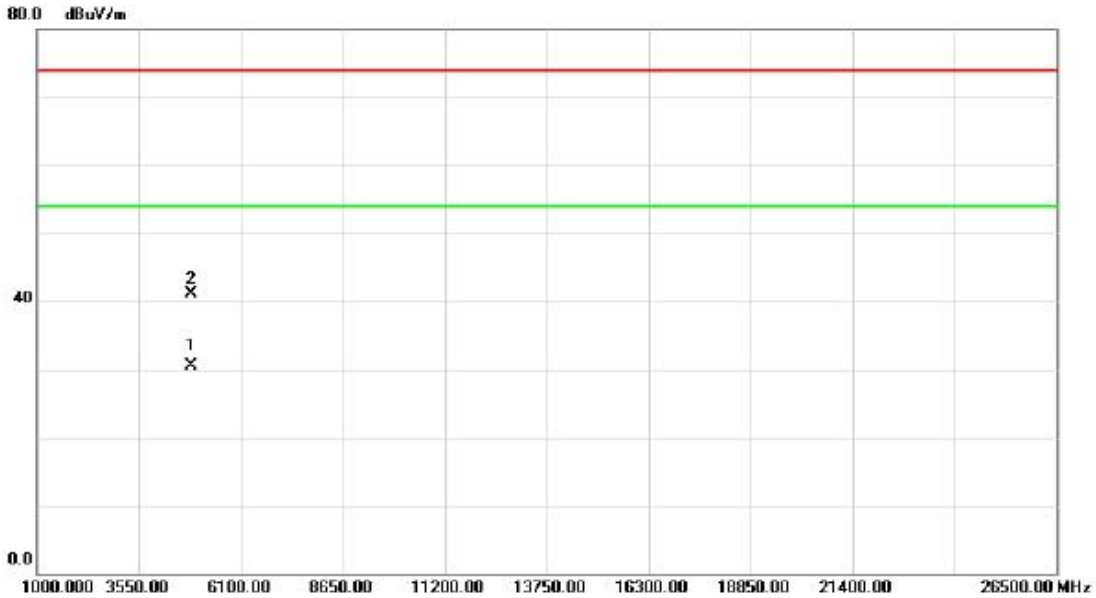
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.84	31.88	55.72	74.00	-18.28	peak	
2		2390.000	13.80	31.88	45.68	54.00	-8.32	AVG	
3	*	2417.200	47.16	31.91	79.07	54.00	25.07	AVG	No Limit
4	X	2435.200	56.73	31.94	88.67	74.00	14.67	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz-Internal Antenna

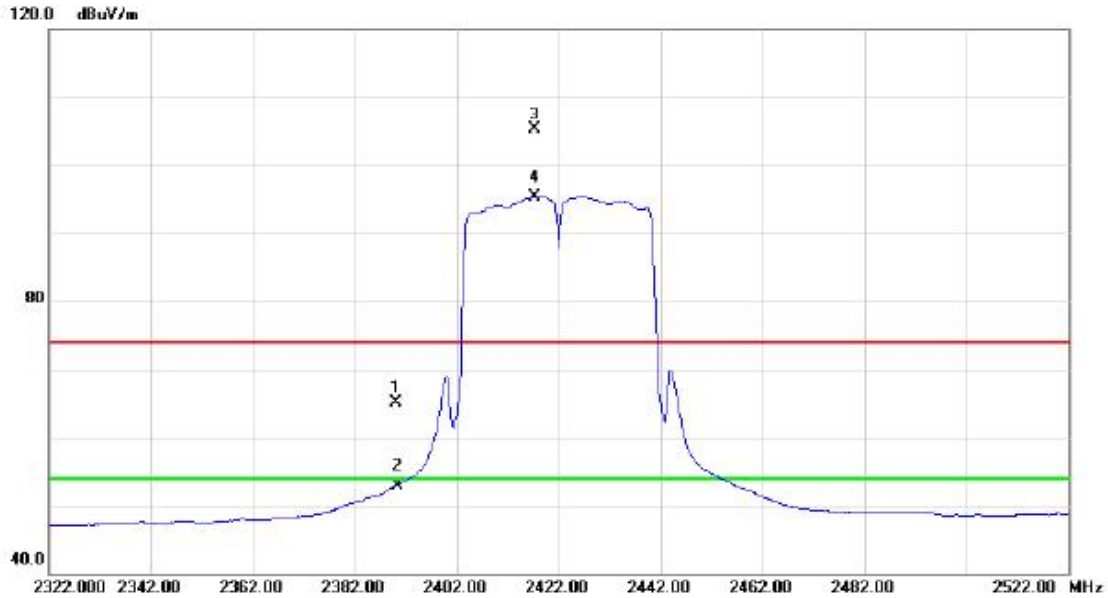
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.240	26.93	3.66	30.59	54.00	-23.41	AVG	
2		4845.220	37.38	3.66	41.04	74.00	-32.96	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz-Internal Antenna

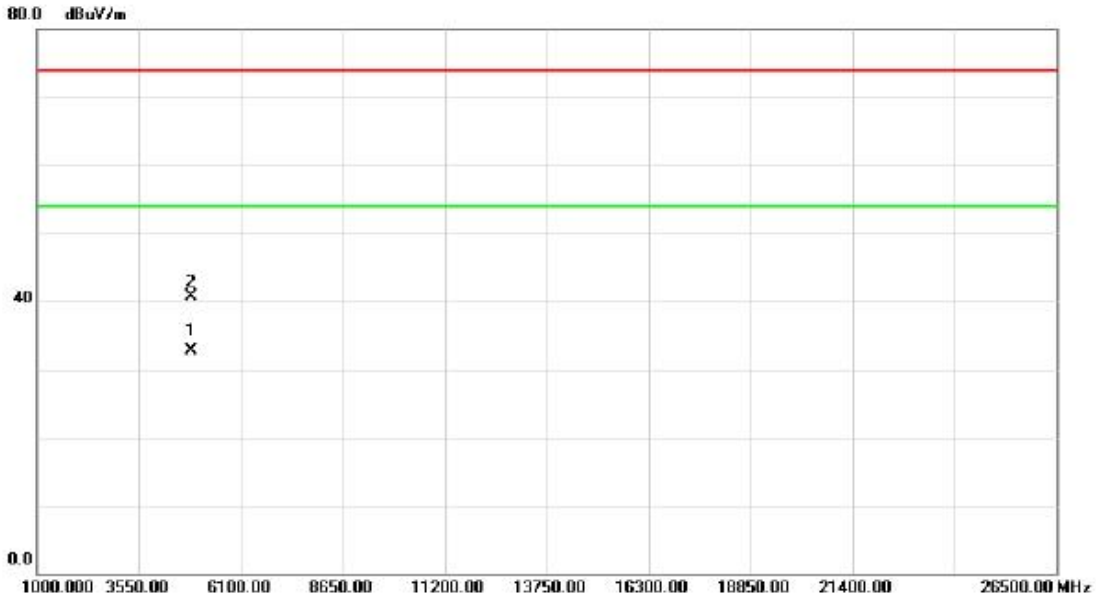
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	33.13	31.88	65.01	74.00	-8.99	peak	
2		2390.000	21.03	31.88	52.91	54.00	-1.09	AVG	
3	X	2417.200	73.35	31.91	105.26	74.00	31.26	peak	No Limit
4	*	2417.200	63.48	31.91	95.39	54.00	41.39	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz-Internal Antenna

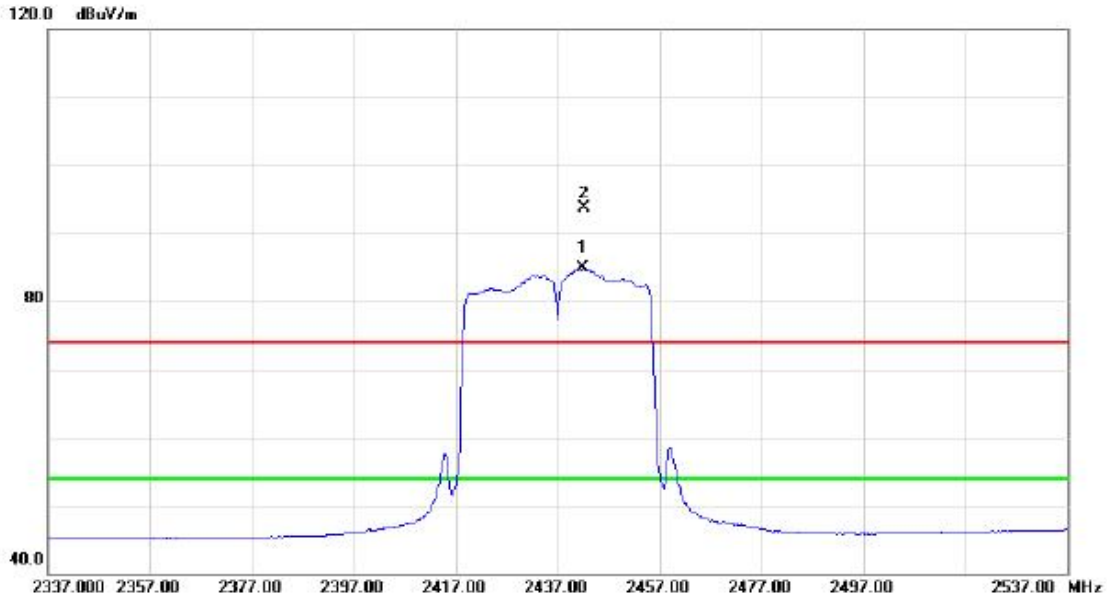
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	29.05	3.66	32.71	54.00	-21.29	AVG	
2		4844.320	36.97	3.66	40.63	74.00	-33.37	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz-Internal Antenna

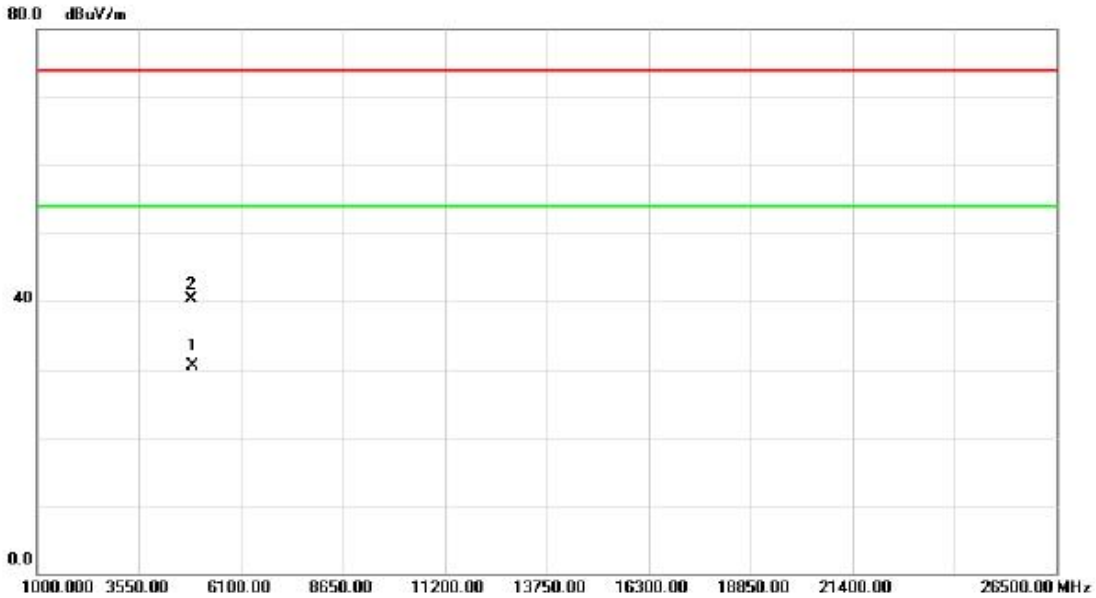
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2442.000	52.95	31.95	84.90	54.00	30.90	AVG	No Limit
2	X	2442.200	61.81	31.95	93.76	74.00	19.76	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz-Internal Antenna

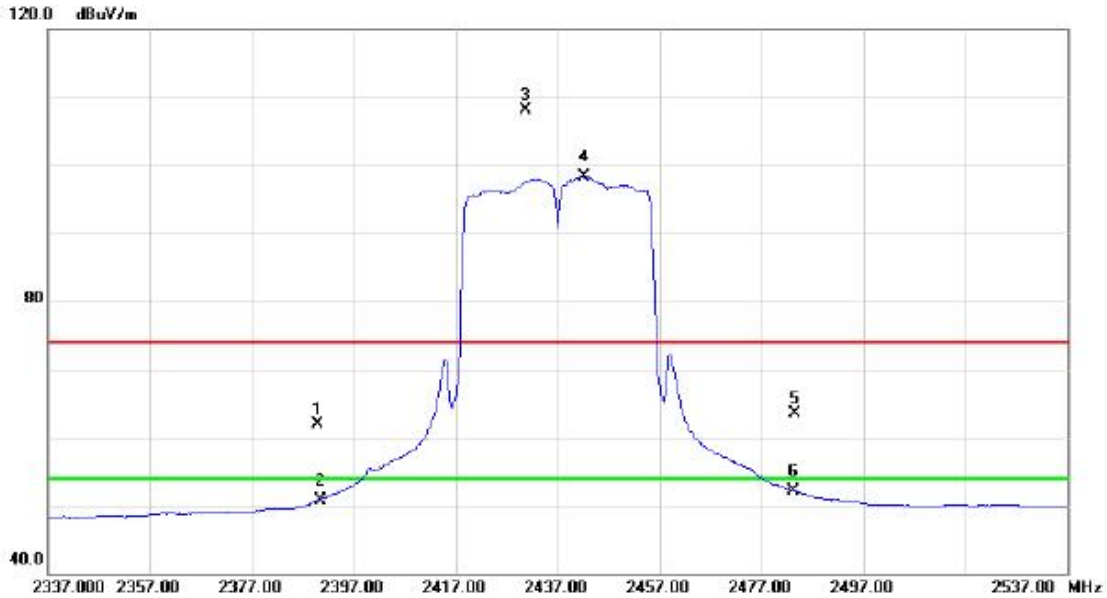
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.760	26.86	3.72	30.58	54.00	-23.42	AVG	
2		4874.540	36.63	3.72	40.35	74.00	-33.65	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz-Internal Antenna

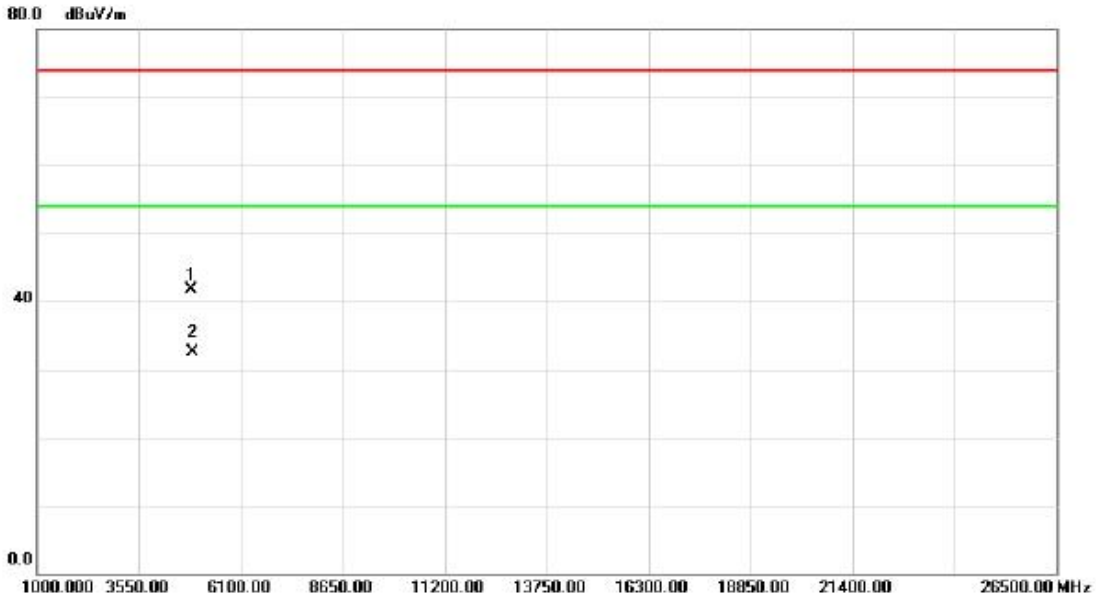
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	30.01	31.88	61.89	74.00	-12.11	peak	
2		2390.000	18.92	31.88	50.80	54.00	-3.20	AVG	
3	X	2430.800	76.20	31.93	108.13	74.00	34.13	peak	No Limit
4	*	2442.200	66.38	31.95	98.33	54.00	44.33	AVG	No Limit
5		2483.500	31.57	32.01	63.58	74.00	-10.42	peak	
6		2483.500	20.14	32.01	52.15	54.00	-1.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz-Internal Antenna

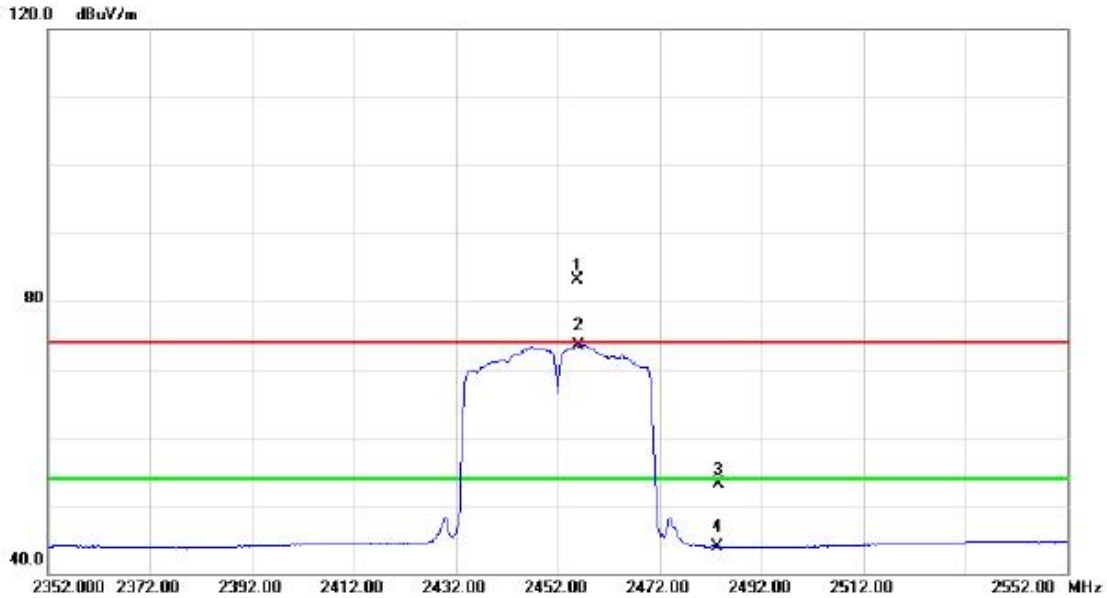
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.900	37.99	3.72	41.71	74.00	-32.29	peak	
2	*	4874.000	28.84	3.72	32.56	54.00	-21.44	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz-Internal Antenna

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2455.800	51.07	31.96	83.03	74.00	9.03	peak	No Limit
2	*	2456.000	41.59	31.96	73.55	54.00	19.55	AVG	No Limit
3		2483.500	21.19	32.01	53.20	74.00	-20.80	peak	
4		2483.500	11.93	32.01	43.94	54.00	-10.06	AVG	