FCC Radio Test Report

FCC ID: V7TI24

This report concerns: Original Grant

Project No.	:	1901C087
Equipment	:	AC1200 Wave2 Gigabit Access Point
Test Model	:	i24
Series Model	:	N/A
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt	:	Jan. 18, 2019
Date of Test	:	Jan. 18, 2019 ~ Feb. 23, 2019
Issued Date	:	Mar. 06, 2019
Tested by	:	BTL Inc.

Testing Engineer : Welly Zhou
(Welly Zhou)

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Certificate #5123.02

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 standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 01, 2019
R01	Revised report to address Eurofins's comments	Mar. 06, 2019

1. GENERAL SUMMARY

Equipment	:	AC1200 Wave2 Gigabit Access Point
Brand Name	:	Tenda
Test Model	:	i24
Series Model	:	N/A
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test	:	Jan. 18, 2019 ~ Feb. 23, 2019
Test Sample	:	Engineering Sample No.: D190100581
Standard(s)	:	FCC Part15, Subpart C (15.247) ANSI C63.10-2013 KDB558074 D01 15.247 Meas Guidance v05

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-1-1901C087) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the WLAN 2.4 GHz part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205 15.209	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	------
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	------
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	------
15.247(e)	Power Spectral Density	APPENDIX H	PASS	------
15.203	Antenna Requirement	------	PASS	------

Note:

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

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 kHz ~ 30 MHz	2.32

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	3.82
		30 MH~200 MHz	H	3.78
		200 MHz~1,000 MHz	V	4.10
		200 MHz~1,000 MHz	H	4.06
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	H	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wave2 Gigabit Access Point
Brand Name	Tenda
Test Model	i24
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# DC voltage supplied from AC/DC adapter. (support unit) 2# DC voltage supplied from PoE adapter.
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V⎓ 1.5A 2# DC 48V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum Output Power Non-Beamforming	IEEE 802.11b: 27.15 dBm (0.5188 W) IEEE 802.11g: 27.16 dBm (0.5200 W) IEEE 802.11n (HT20): 26.81 dBm (0.4801 W) IEEE 802.11n (HT40): 26.73 dBm (0.4706 W)
Maximum Output Power Beamforming	IEEE 802.11n (HT20): 26.56 dBm (0.4530 W) IEEE 802.11n (HT40): 26.61 dBm (0.4586 W)

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(20 MHz) CH03 - CH09 for 802.11n(40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2.7
2	N/A	N/A	Internal	N/A	3

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R),any transmit signals are correlated with each other, so Directional gain =10log[($10^{G1/20}$+$10^{G2/20}$+...$10^{GN/20}$)^2/N]dBi, that is Directional gain= 10log[($10^{2.7/20}$+$10^{3/20}$)^2/2]dBi =5.86 .

(2) Beamorming Gain: 3dB.
Directional gain=3+3=6

4. Table for Antenna Configuration:

Operating Mode / TX Mode	1TX	2TX
IEEE 802.11b	V (Ant. 2)	-
IEEE 802.11g	V (Ant. 2)	-
IEEE 802.11n (HT20)	-	V (Ant. 1 + Ant. 2)
IEEE 802.11n (HT40)	-	V (Ant. 1 + Ant. 2)

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09
Mode 5	TX G Mode Channel 01

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode:	Description
Mode 5	TX G Mode Channel 01

Radiated emissions 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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

Conducted 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-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

NOTE:
(1) The measurements are performed at the high, middle, low available channels.
(2) 802.11b mode: DBPSK (1 Mbps)
802.11g mode: OFDM (6 Mbps)
802.11n HT20 mode : BPSK (13 Mbps)
802.11n HT40 mode : BPSK (27 Mbps)
For radiated emission tests, the highest output powers were set for final test.
(3) For radiated emission below 1 GHz test, the IEEE 802.11b is found to be the worst case and recorded.
(4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(5) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

3.3 PARAMETERS OF TEST SOFTWARE

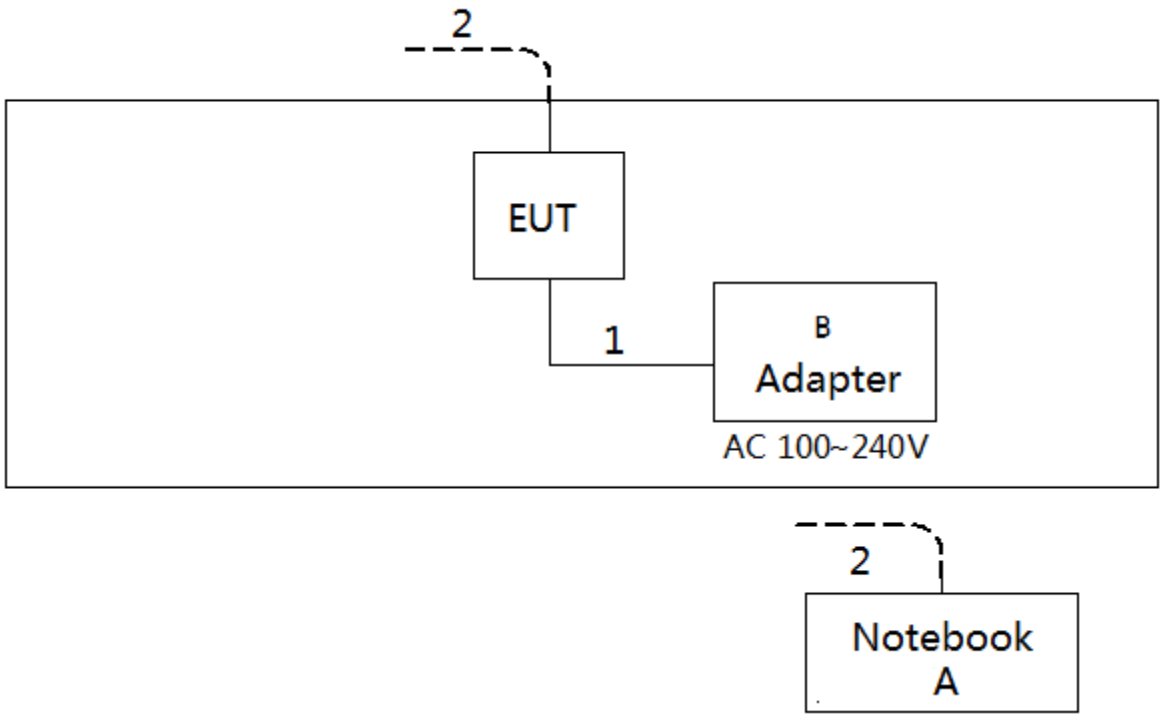
Non-Beamforming

Test Software	cart		
Test Frequency (MHz)	2412	2437	2462
IEEE 802.11b	19	20	23.5
IEEE 802.11g	18	18	18
IEEE 802.11n (HT20)	12.5	14.5	15.5
Test Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	14.5	15	15

Beamforming

Test Software	cart		
Test Frequency (MHz)	2412	2437	2462
IEEE 802.11n (HT20)	12.5	14.5	15.5
Test Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	14.5	15	15

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Notebook	Lenovo	G410	N/A
B	Adapter	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	NO	NO	10m	RJ45 Cable

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

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

NOTE:
(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) 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
Sample calculations: (Refer to page 31, test result No.1.)

Reading Level		Correct Factor		Measurement Value
42.63	+	9.82	=	52.45

Measurement Value		Limit Value		Margin Level
52.45	-	63.45	=	-11.00

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

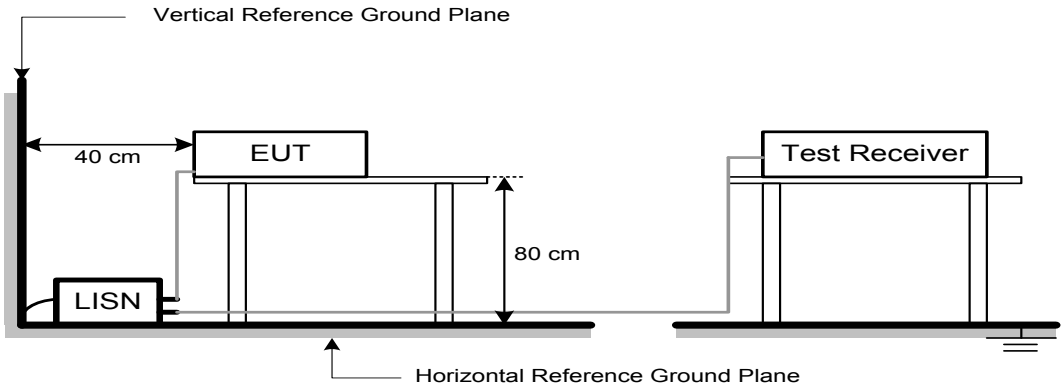
4.2 TEST PROCEDURE

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 equipment 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.

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS TEST

5.1 LIMIT

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 (9 kHz-1000 MHz)

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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

(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).

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Sample calculations: (Refer to page 34, test result No.1.)

Reading Level		Correct Factor		Measurement Value
38.62	+	21.20	=	59.82

Measurement Value		Limit Value		Margin Level
59.82	-	126.32	=	-66.50

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

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

5.2 TEST PROCEDURE

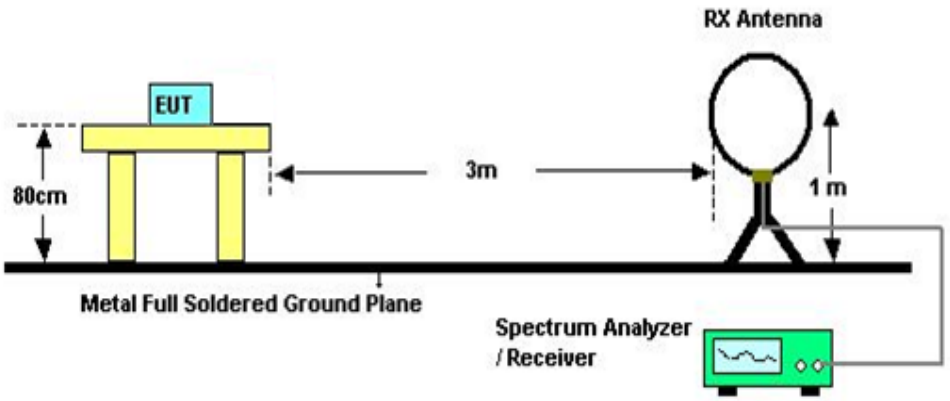
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1 GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.3 DEVIATION FROM TEST STANDARD

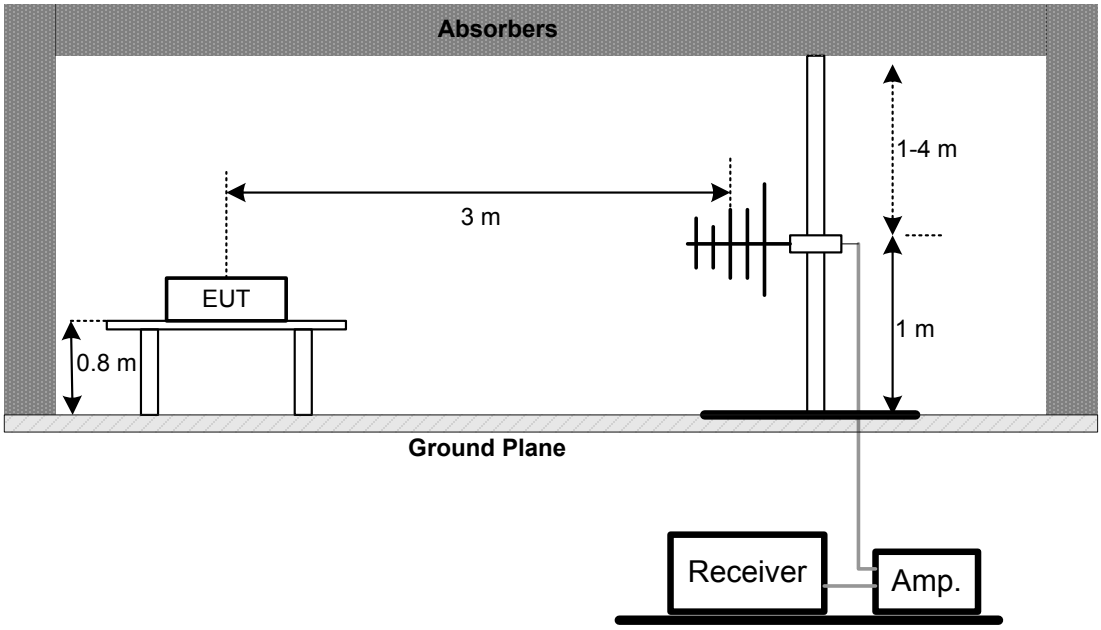
No deviation

5.4 TEST SETUP

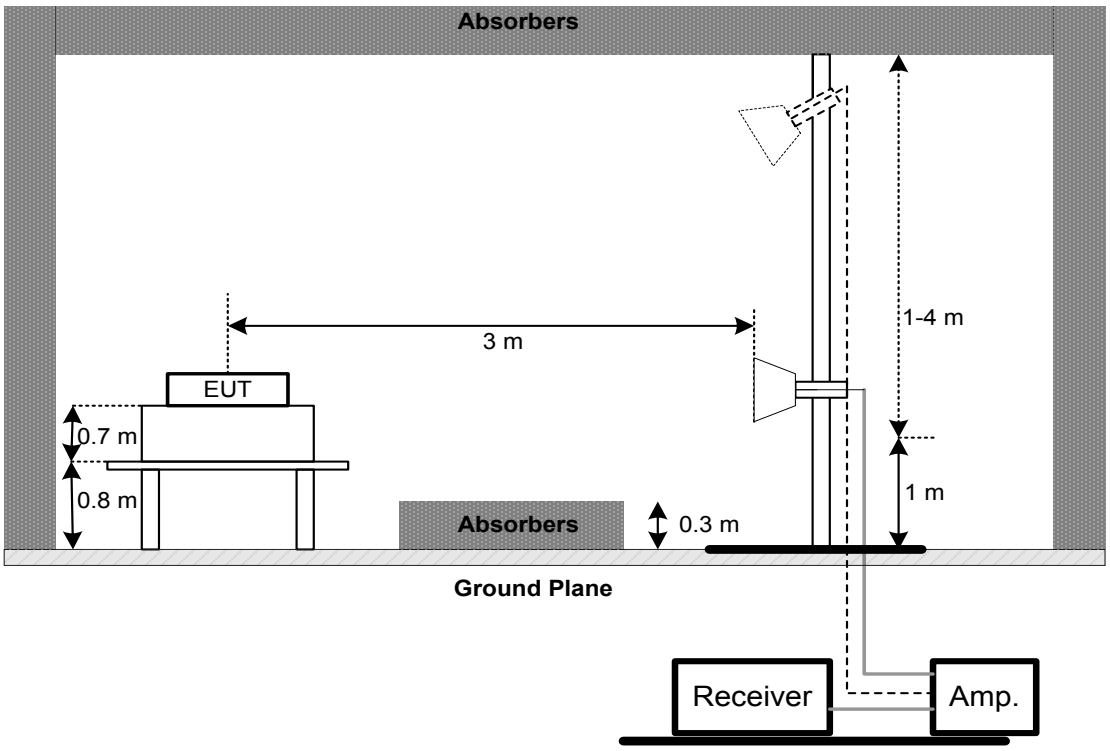
9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 54% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX 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.

5.8 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.9 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

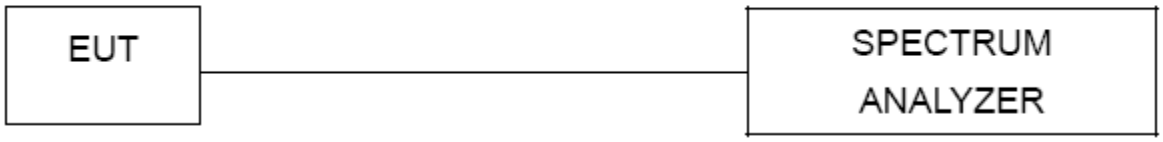
6.2 TEST PROCEDURE

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= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.
c. The bandwidth was performed in accordance with method 11.8 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

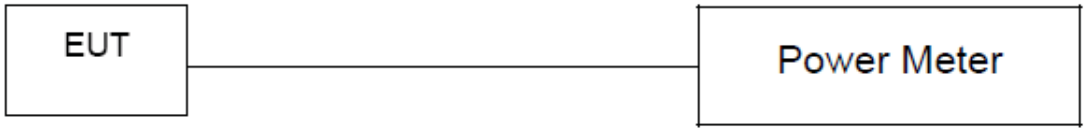
7.2 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
b. The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

7.7 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSIONS

8.1 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 or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

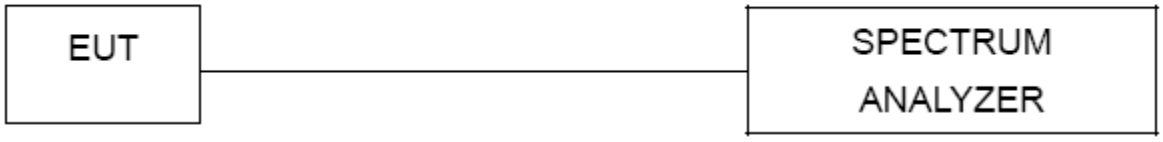
8.2 TEST PROCEDURE

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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY TEST

9.1 LIMIT

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

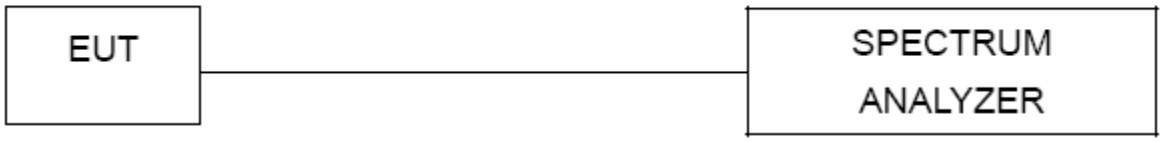
9.2 TEST PROCEDURE

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=3 kHz, VBW=10 kHz, Sweep time = Auto.
c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

9.7 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 23, 2019

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 25, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019

Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

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

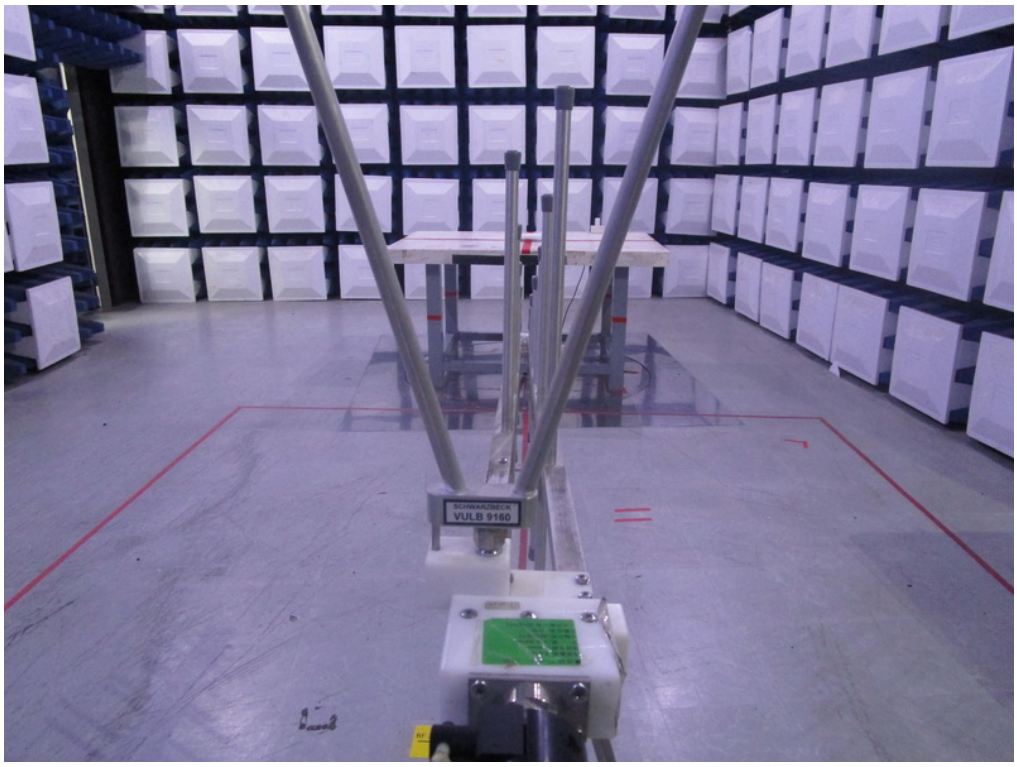
11. EUT TEST PHOTO

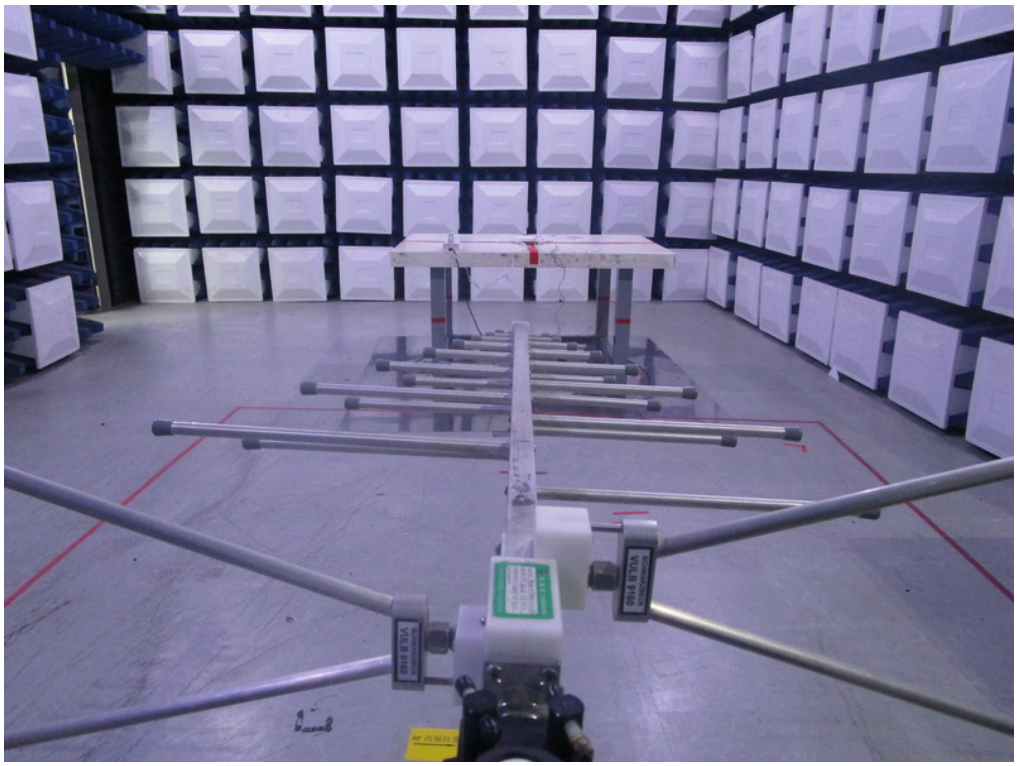
Radiated Emissions Test Photos

9 kHz to 30 MHz

Radiated Emissions Test Photos

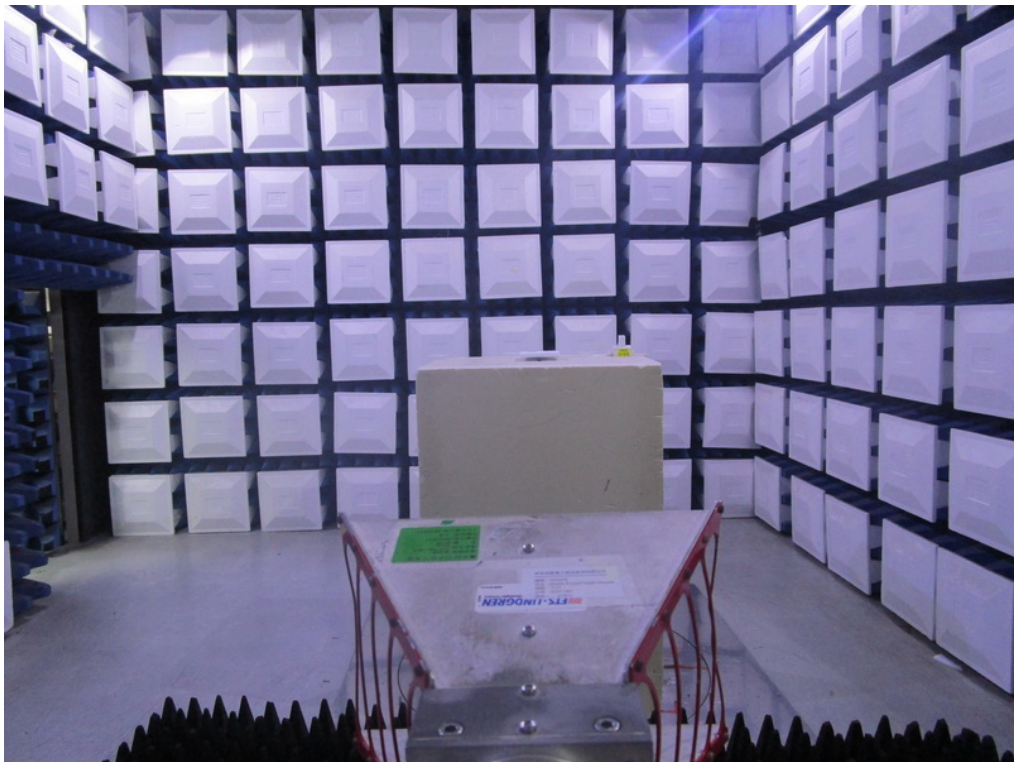
30 MHz to 1 GHz

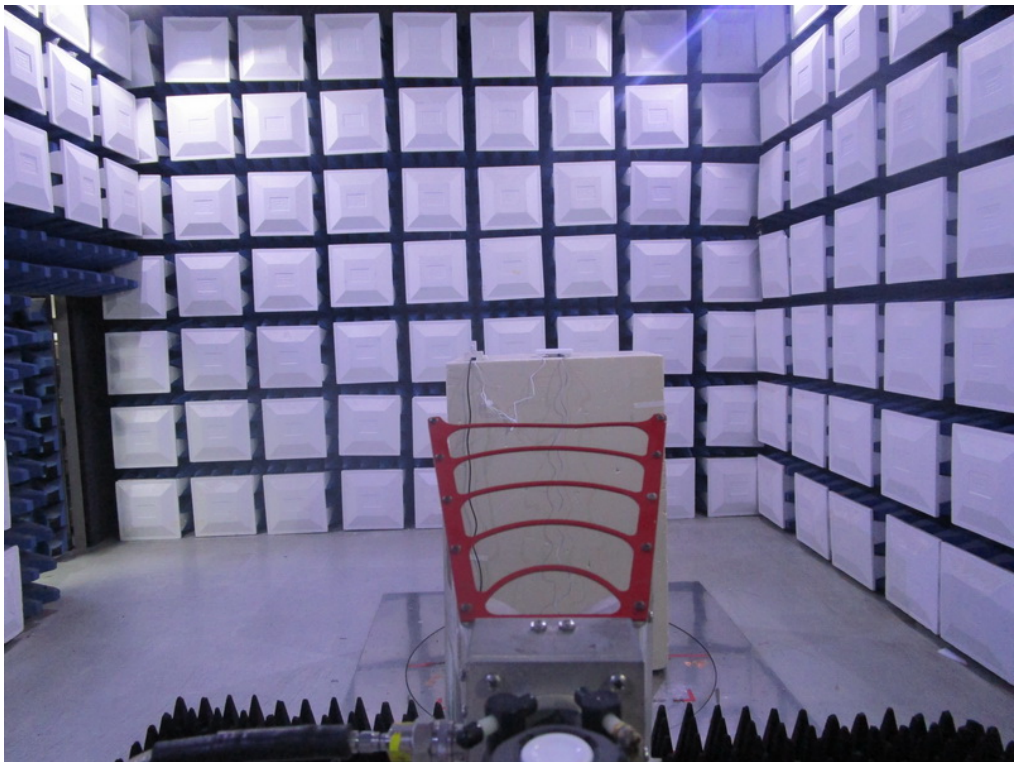




Radiated Emissions Test Photos

Above 1 GHz

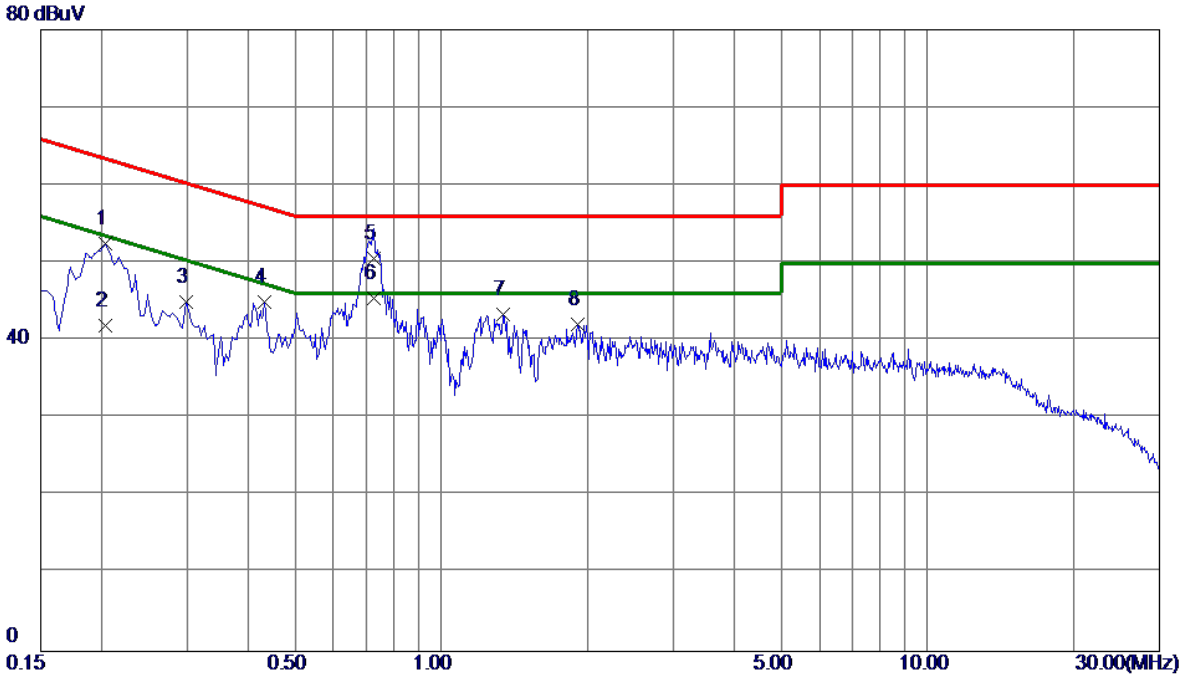




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX G MODE CHANNEL 01

Line

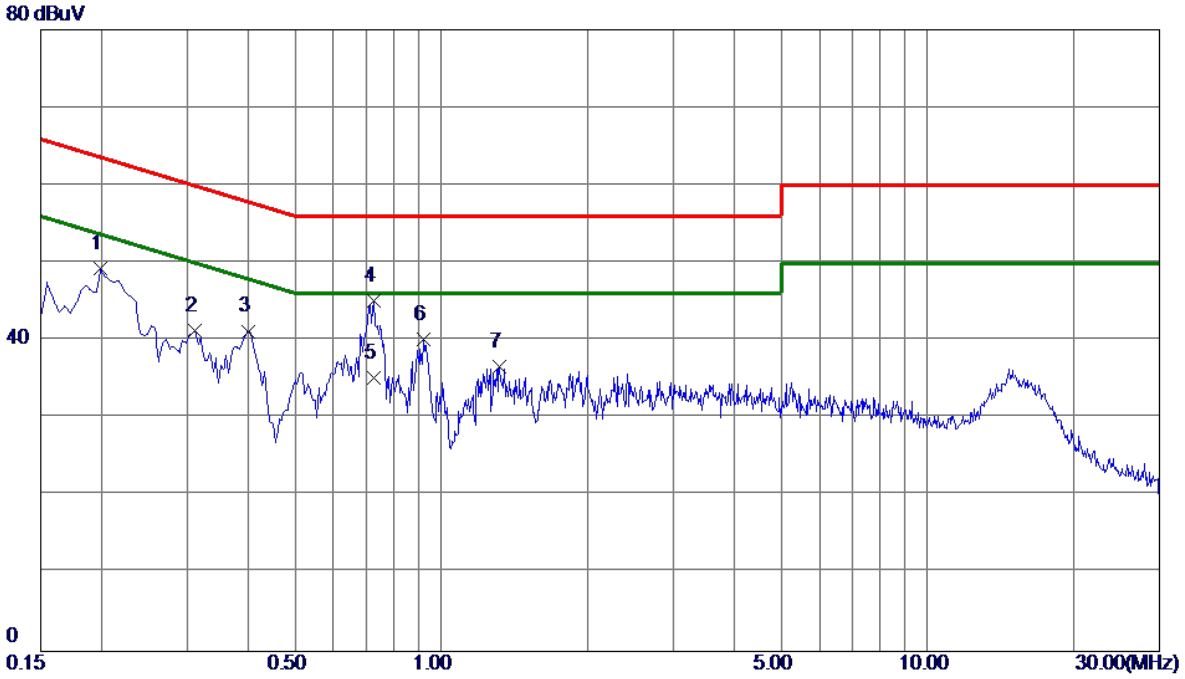


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2040	42.63	9.82	52.45	63.45	-11.00	Peak	
2	0.2040	32.10	9.82	41.92	53.45	-11.53	AVG	
3	0.2985	35.21	9.82	45.03	60.28	-15.25	Peak	
4	0.4335	35.16	9.80	44.96	57.19	-12.23	Peak	
5	0.7260	40.70	9.88	50.58	56.00	-5.42	QP	
6 *	0.7260	35.60	9.88	45.48	46.00	-0.52	AVG	
7	1.3380	33.46	9.94	43.40	56.00	-12.60	Peak	
8	1.9050	32.15	9.99	42.14	56.00	-13.86	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX G MODE CHANNEL 01

Neutral



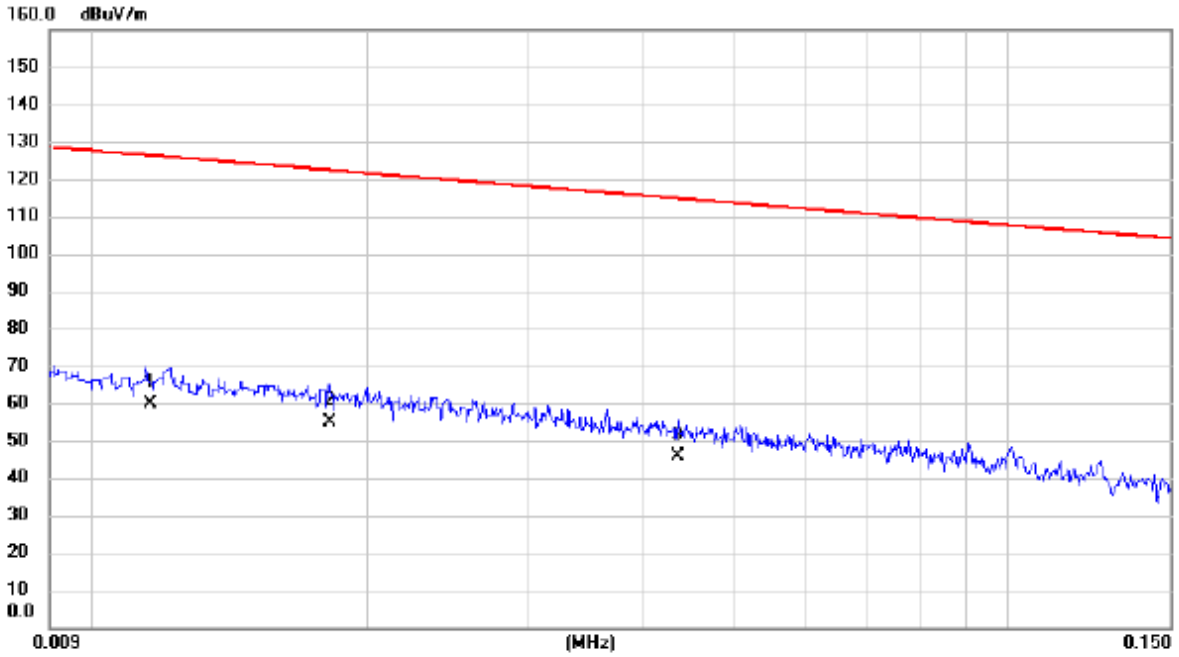
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1995	39.29	9.91	49.20	63.63	-14.43	Peak	
2	0.3120	31.32	9.93	41.25	59.92	-18.67	Peak	
3	0.4020	31.25	9.95	41.20	57.81	-16.61	Peak	
4	0.7260	35.04	10.05	45.09	56.00	-10.91	Peak	
5 *	0.7260	25.14	10.05	35.19	46.00	-10.81	AVG	
6	0.9195	30.05	10.10	40.15	56.00	-15.85	Peak	
7	1.3200	26.55	10.14	36.69	56.00	-19.31	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode:	TX B MODE CHANNEL 11

Ant 0°

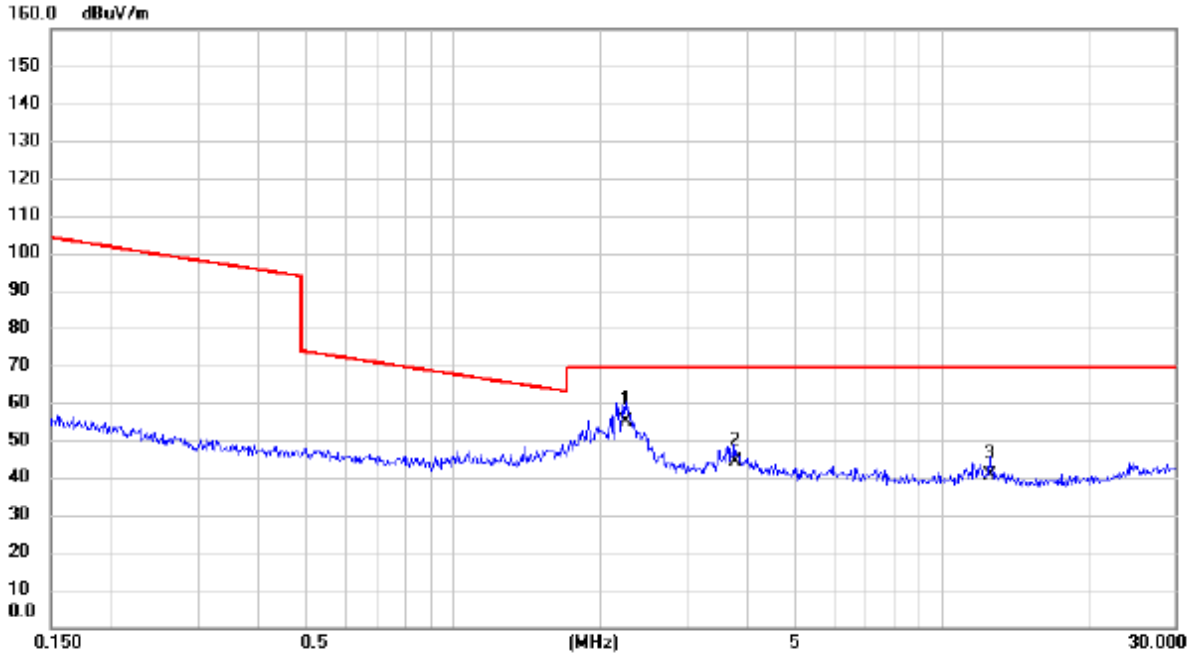


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0116	38.62	21.20	59.82	126.32	-66.50	AVG	
2		0.0182	34.86	20.27	55.13	122.40	-67.27	AVG	
3		0.0436	25.99	19.64	45.63	114.82	-69.19	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11

Ant 0°

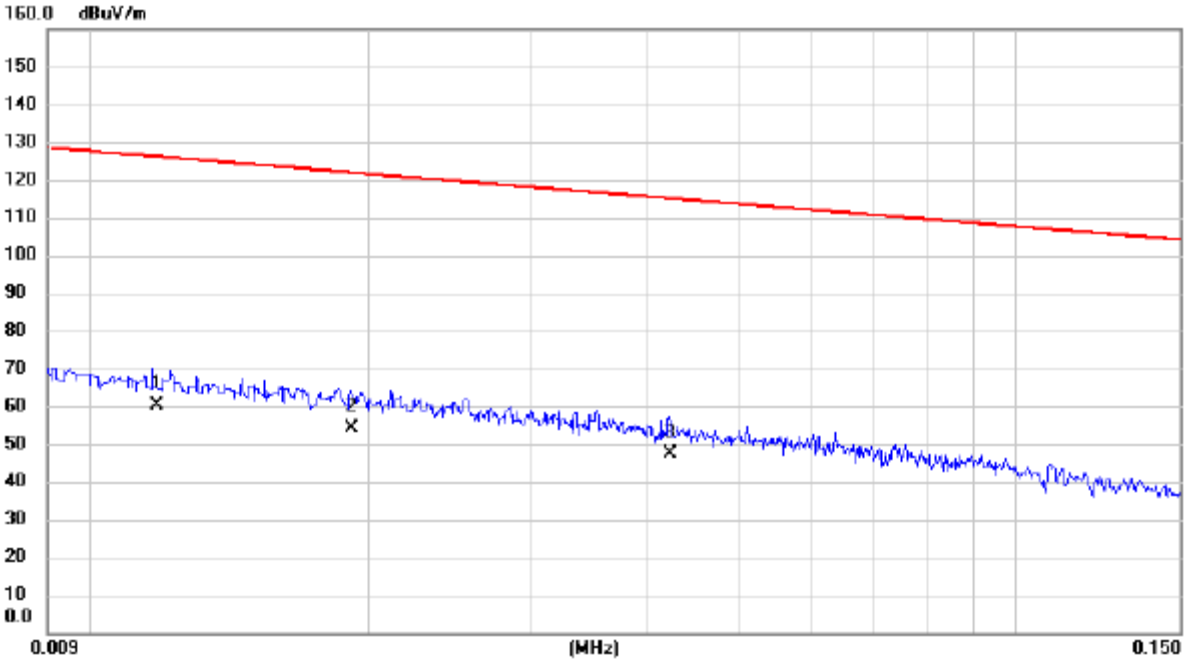


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2.2486	38.12	16.97	55.09	69.54	-14.45	QP	
2		3.7594	28.31	15.93	44.24	69.54	-25.30	QP	
3		12.5156	26.11	14.55	40.66	69.54	-28.88	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11

Ant 90°

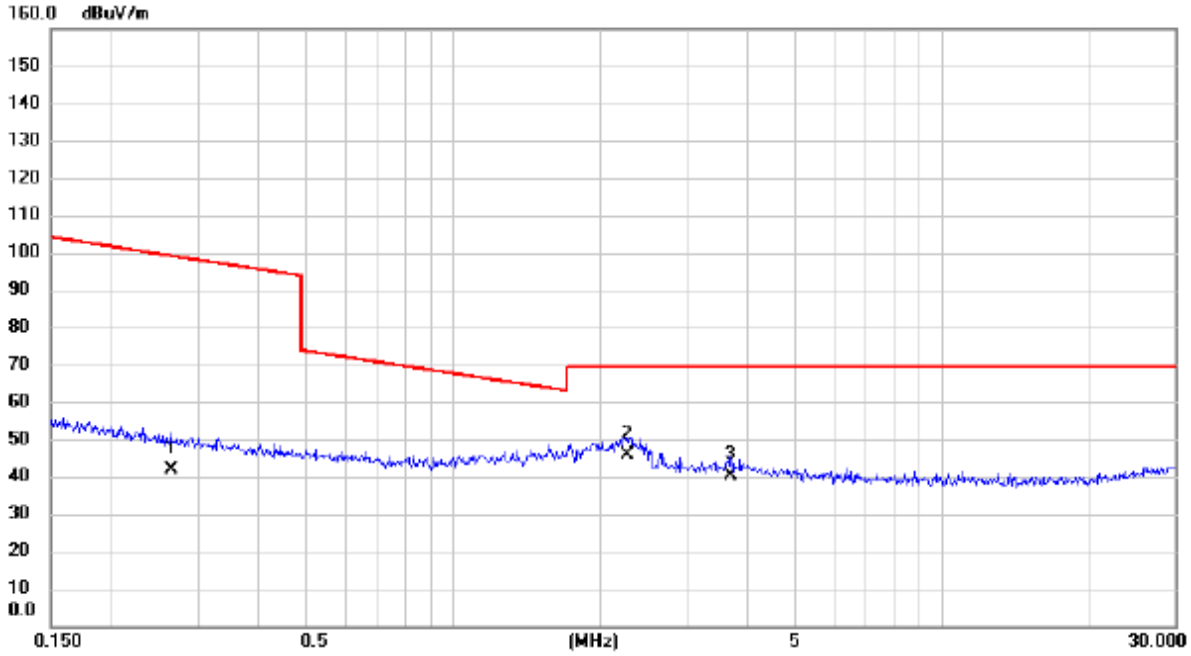


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0118	39.12	21.17	60.29	126.17	-65.88	AVG	
2		0.0192	34.11	20.13	54.24	121.94	-67.70	AVG	
3		0.0423	27.88	19.66	47.54	115.08	-67.54	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11

Ant 90°



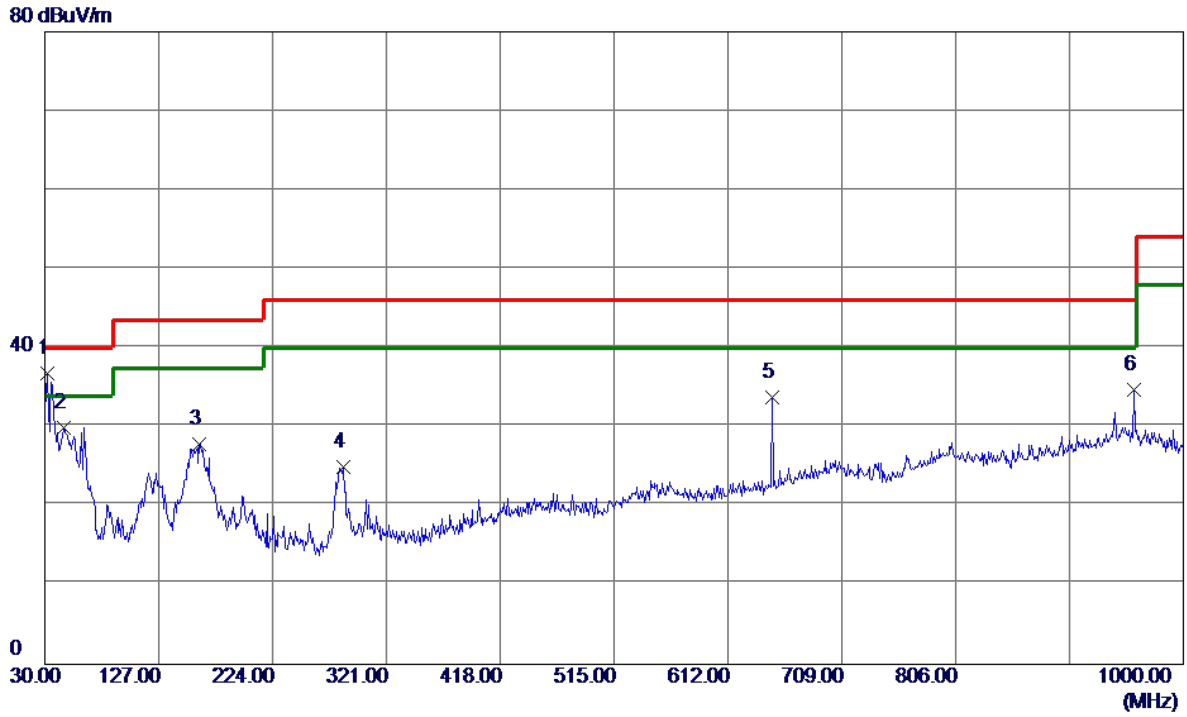
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2644	24.62	17.05	41.67	99.16	-57.49	AVG	
2	*	2.2606	28.76	16.96	45.72	69.54	-23.82	QP	
3		3.6806	24.39	16.00	40.39	69.54	-29.15	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode:	TX B MODE CHANNEL 11

Vertical

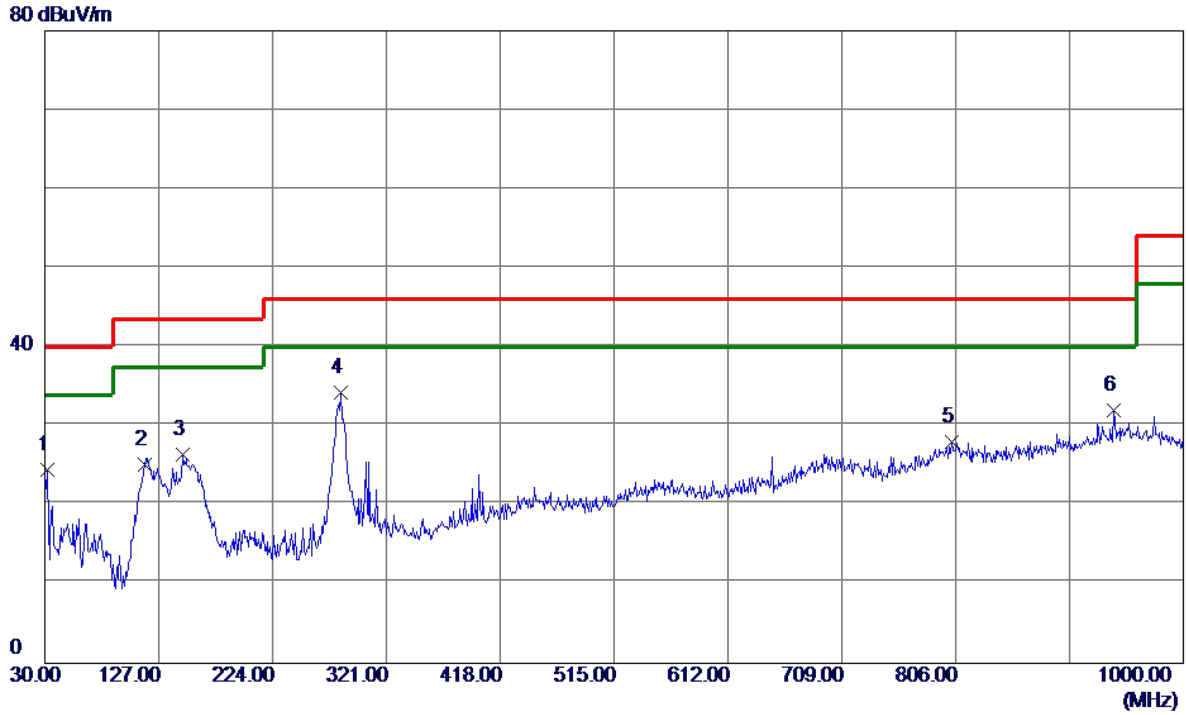


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	51.82	-15.04	36.78	40.00	-3.22	Peak	
2	46.4900	44.68	-14.77	29.91	40.00	-10.09	Peak	
3	161.9200	38.56	-10.71	27.85	43.50	-15.65	Peak	
4	284.1400	36.11	-11.18	24.93	46.00	-21.07	Peak	
5	649.8300	38.93	-5.18	33.75	46.00	-12.25	Peak	
6	958.2900	33.49	1.21	34.70	46.00	-11.30	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11

Horizontal



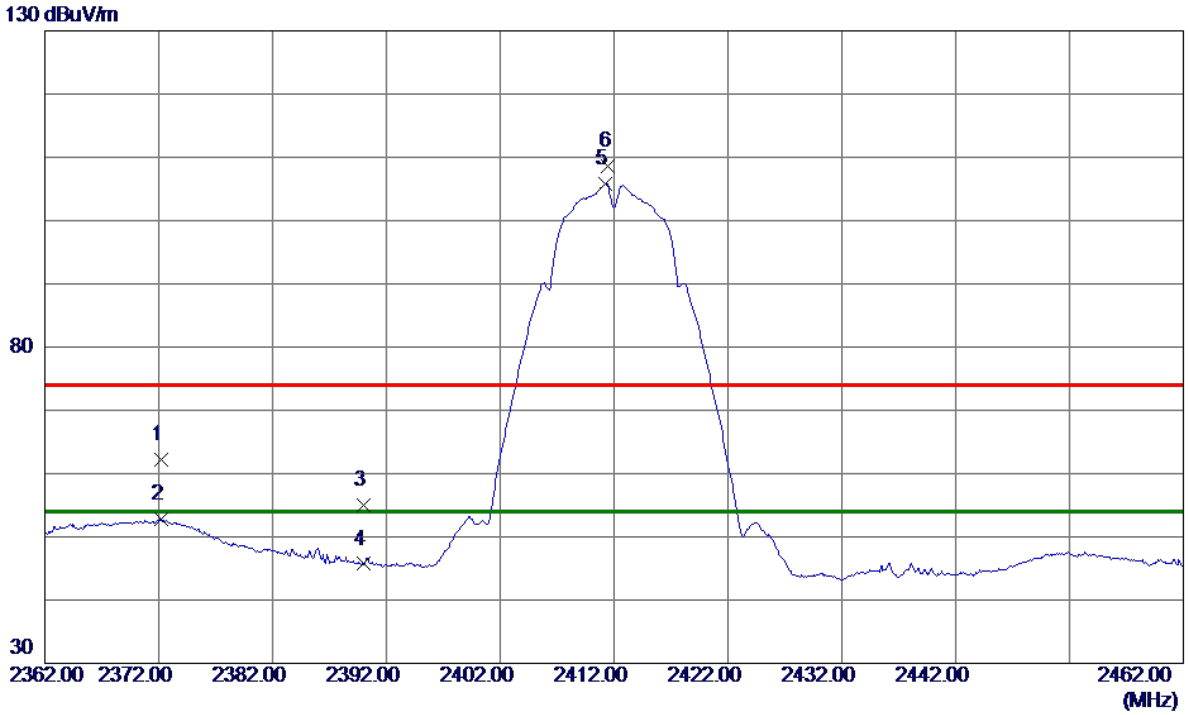
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	31.9400	39.51	-15.04	24.47	40.00	-15.53	Peak	
2	115.3600	40.51	-15.43	25.08	43.50	-18.42	Peak	
3	147.3700	38.09	-11.65	26.44	43.50	-17.06	Peak	
4 *	282.2000	45.43	-11.25	34.18	46.00	-11.82	Peak	
5	803.0900	29.16	-1.09	28.07	46.00	-17.93	Peak	
6	940.8300	30.90	1.04	31.94	46.00	-14.06	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Vertical

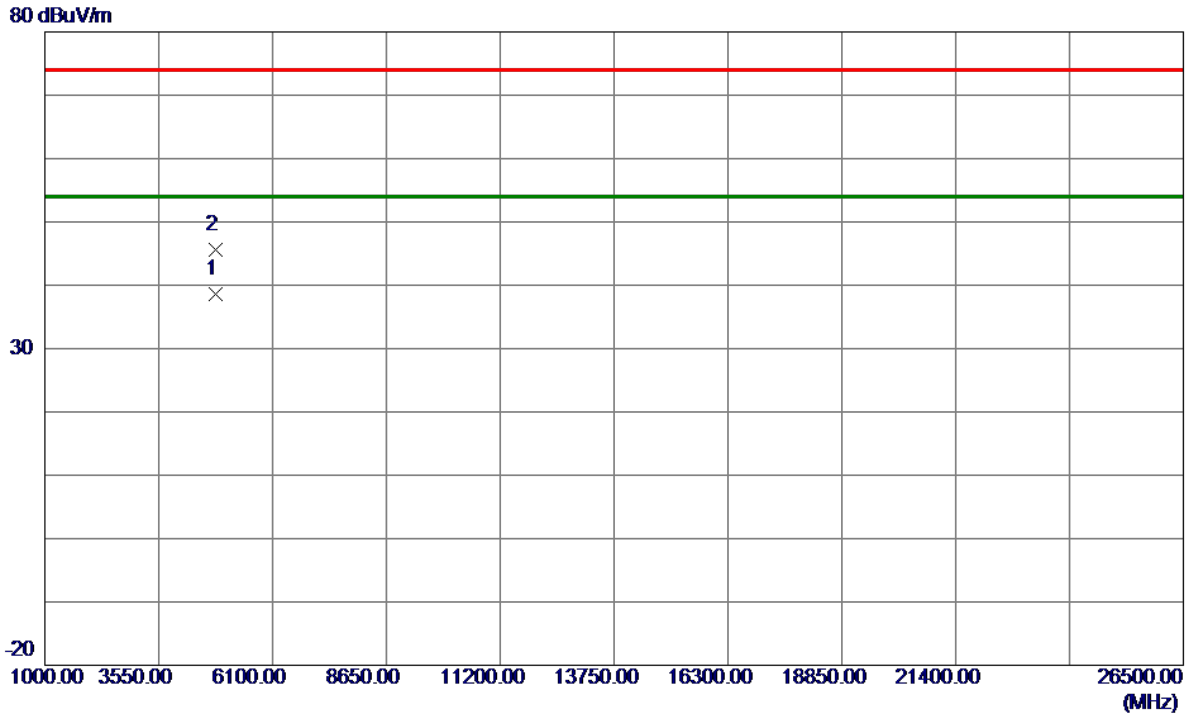


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2372.2000	55.13	7.01	62.14	74.00	-11.86	Peak	
2	2372.2000	45.75	7.01	52.76	54.00	-1.24	AVG	
3	2390.0000	47.90	7.01	54.91	74.00	-19.09	Peak	
4	2390.0000	38.69	7.01	45.70	54.00	-8.30	AVG	
5 *	2411.2000	98.73	7.02	105.75	54.00	51.75	AVG	No Limit
6	2411.5000	101.52	7.02	108.54	74.00	34.54	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Vertical

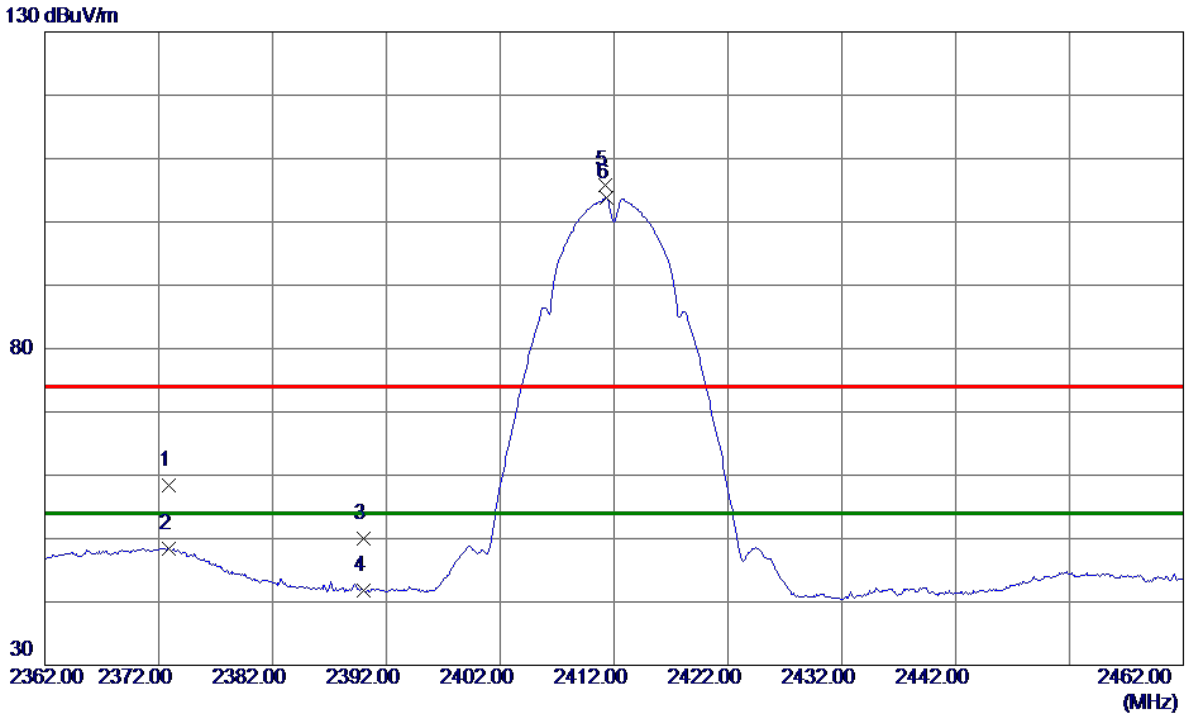


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9100	34.42	4.23	38.65	54.00	-15.35	AVG	
2	4823.9700	41.44	4.23	45.67	74.00	-28.33	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal

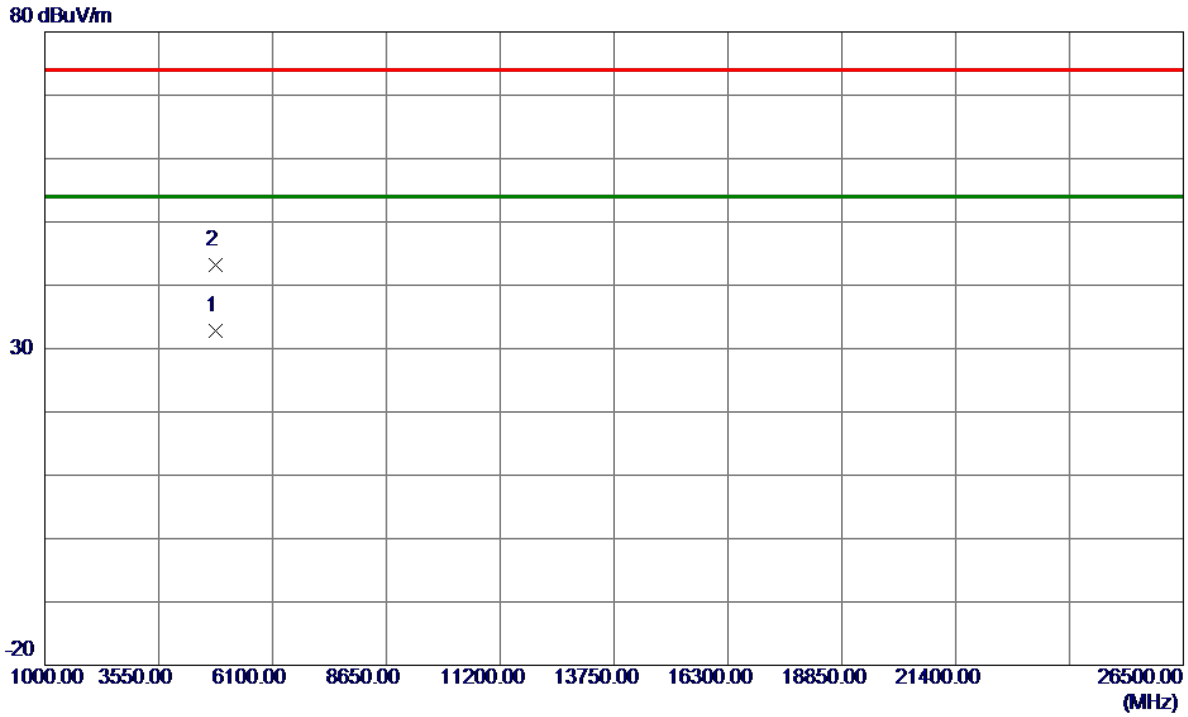


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2372.9000	51.33	7.01	58.34	74.00	-15.66	Peak	
2	2372.9000	41.47	7.01	48.48	54.00	-5.52	AVG	
3	2390.0000	43.07	7.01	50.08	74.00	-23.92	Peak	
4	2390.0000	34.83	7.01	41.84	54.00	-12.16	AVG	
5	2411.2000	98.83	7.02	105.85	74.00	31.85	Peak	No Limit
6 *	2411.3000	96.78	7.02	103.80	54.00	49.80	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal

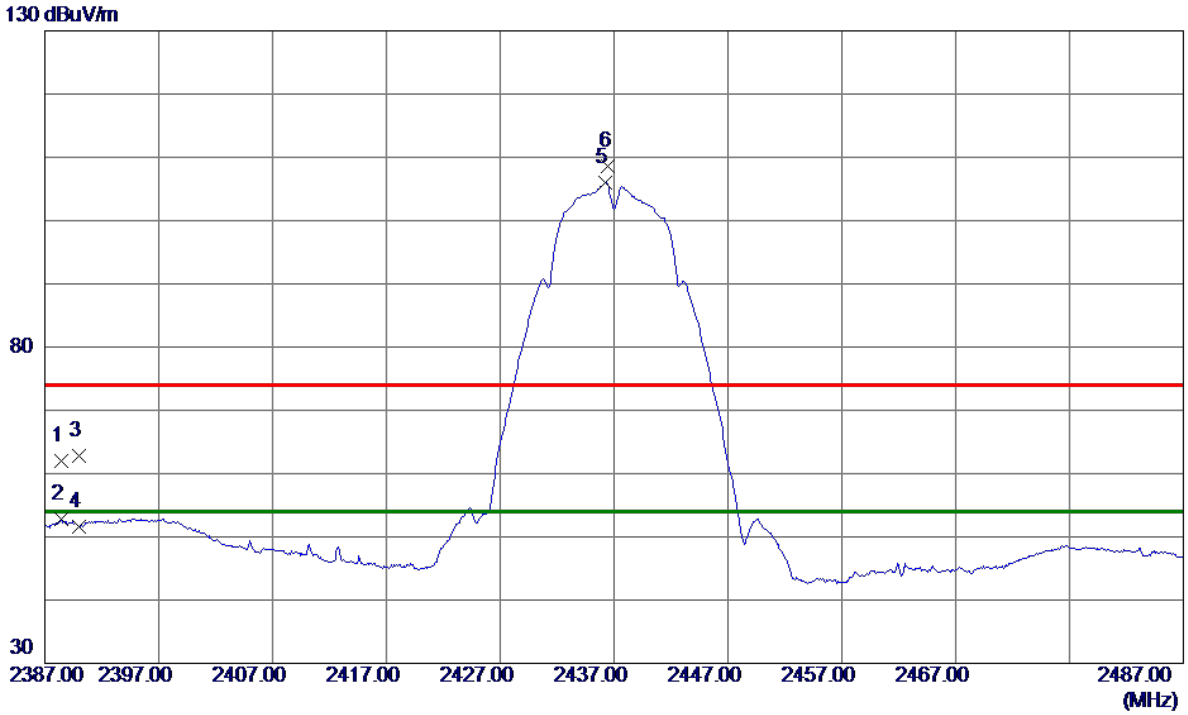


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9900	28.62	4.23	32.85	54.00	-21.15	AVG	
2	4824.0700	39.00	4.23	43.23	74.00	-30.77	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Vertical

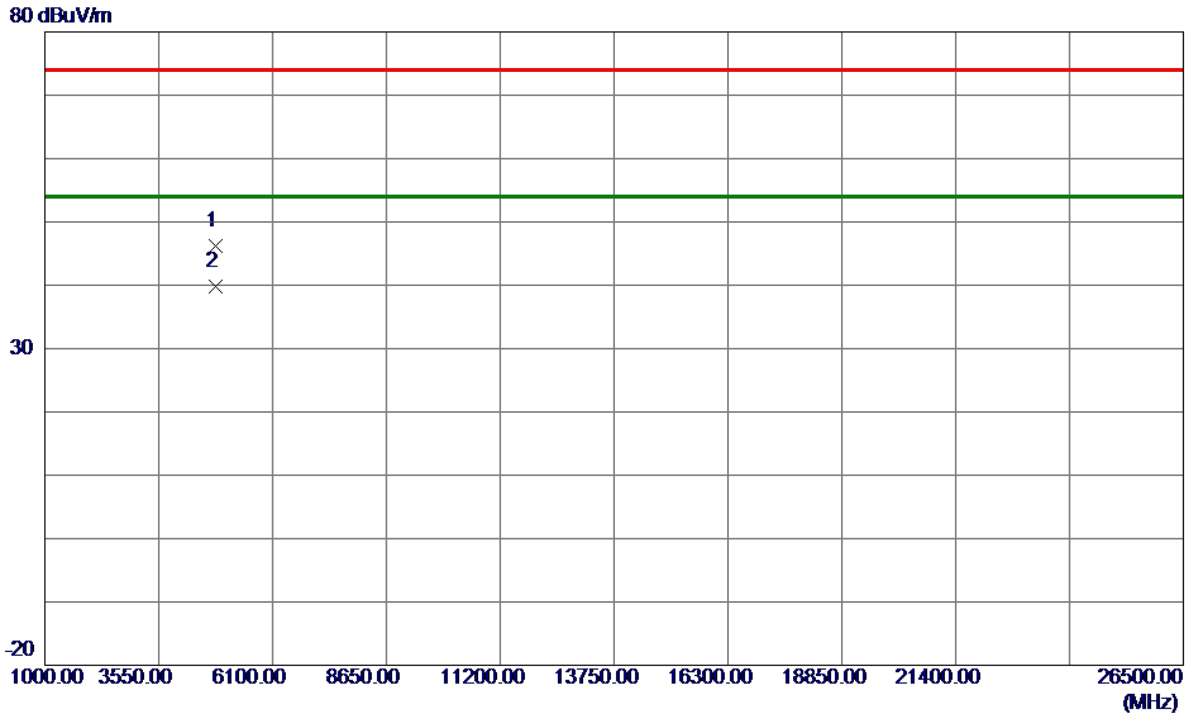


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.4000	55.03	7.01	62.04	74.00	-11.96	Peak	
2	2388.4000	45.77	7.01	52.78	54.00	-1.22	AVG	
3	2390.0000	55.88	7.01	62.89	74.00	-11.11	Peak	
4	2390.0000	44.55	7.01	51.56	54.00	-2.44	AVG	
5 *	2436.2000	98.90	7.02	105.92	54.00	51.92	AVG	No Limit
6	2436.5000	101.66	7.02	108.68	74.00	34.68	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Vertical

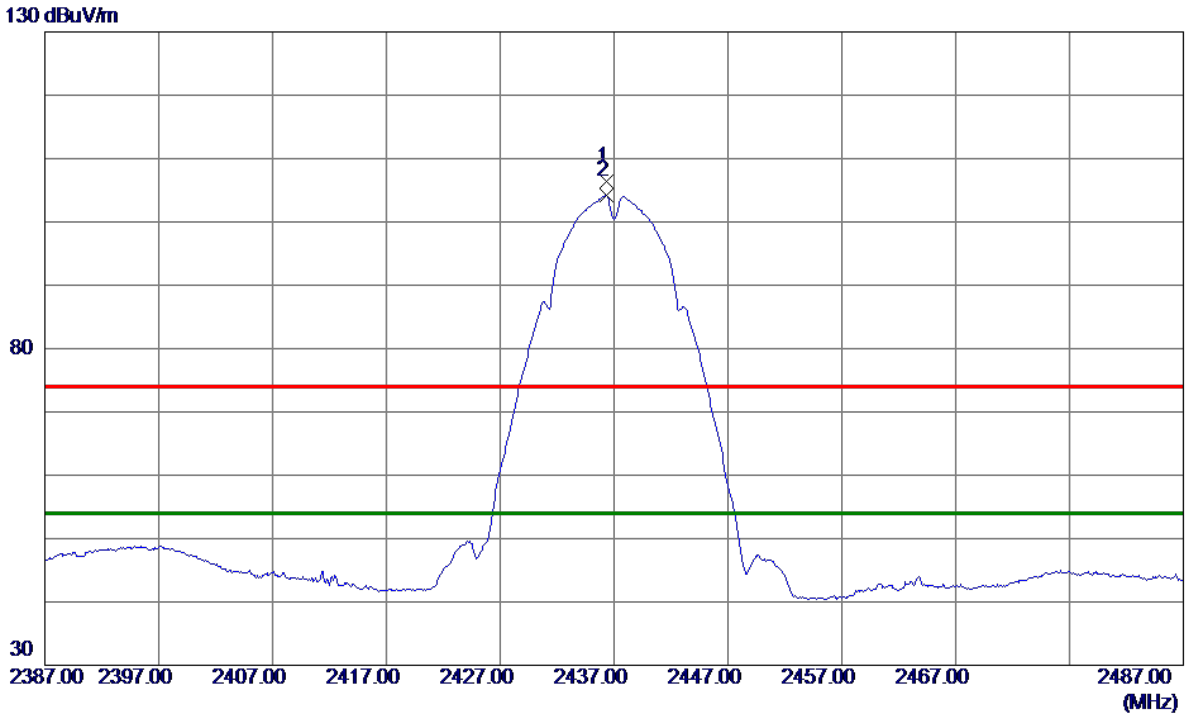


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.8150	41.98	4.23	46.21	74.00	-27.79	Peak	
2 *	4823.9750	35.64	4.23	39.87	54.00	-14.13	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Horizontal

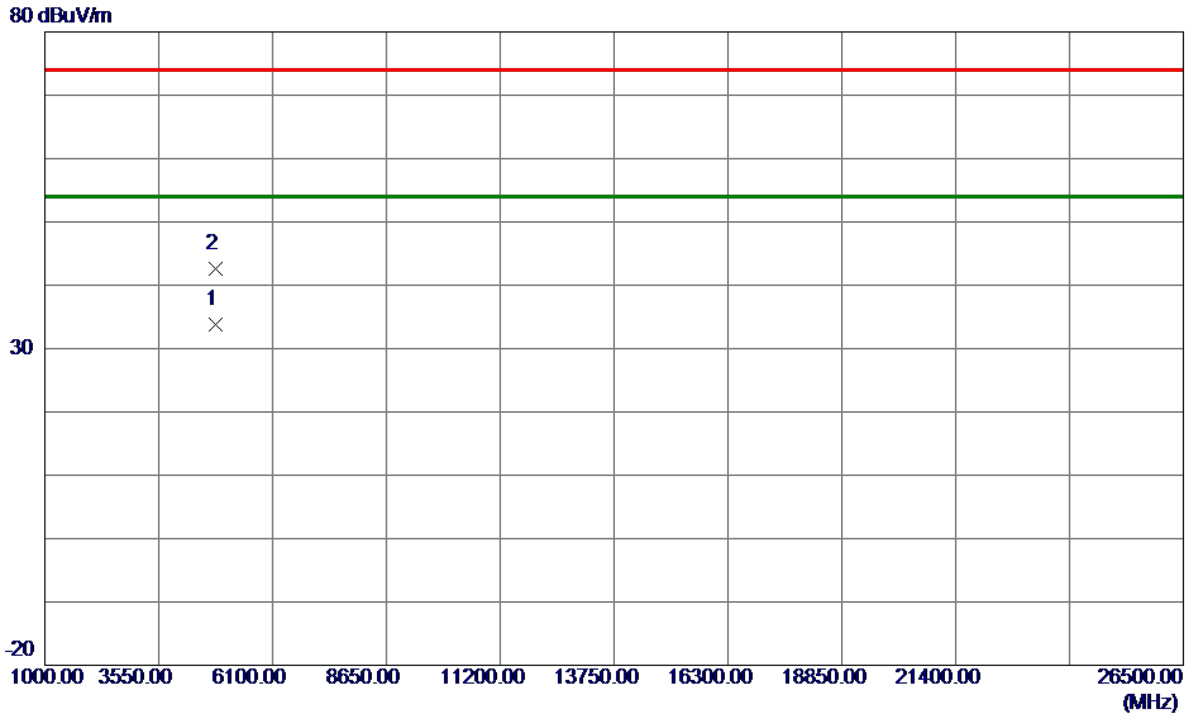


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.3000	99.29	7.02	106.31	74.00	32.31	Peak	No Limit
2 *	2436.3000	97.14	7.02	104.16	54.00	50.16	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz

Horizontal

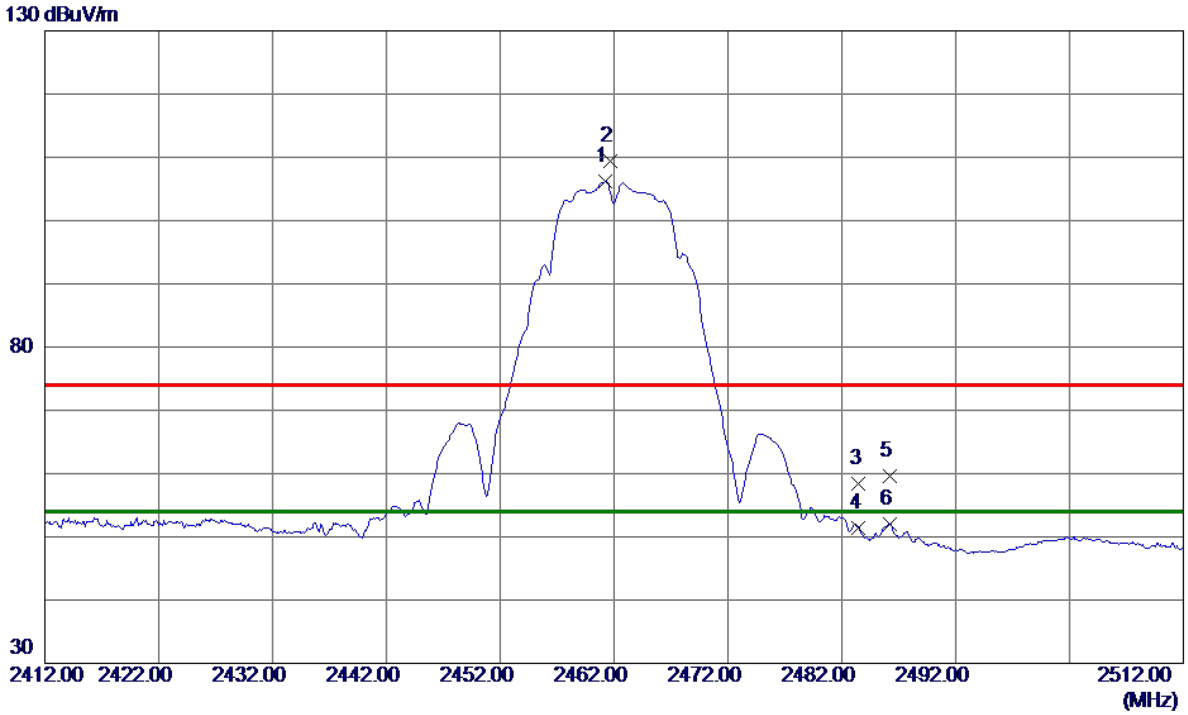


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9700	29.49	4.23	33.72	54.00	-20.28	AVG	
2	4823.9850	38.33	4.23	42.56	74.00	-31.44	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Vertical

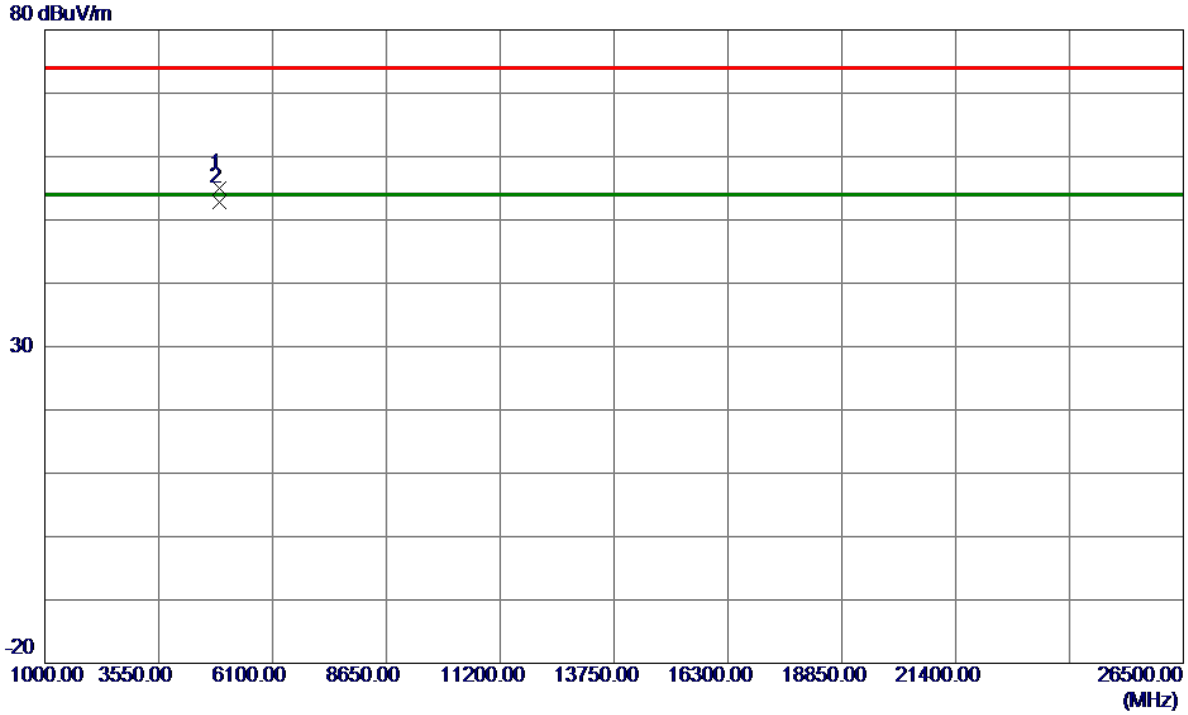


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.2000	99.14	7.03	106.17	54.00	52.17	AVG	No Limit
2	2461.7000	102.28	7.03	109.31	74.00	35.31	Peak	No Limit
3	2483.5000	51.43	7.03	58.46	74.00	-15.54	Peak	
4	2483.5000	44.34	7.03	51.37	54.00	-2.63	AVG	
5	2486.2000	52.49	7.03	59.52	74.00	-14.48	Peak	
6	2486.2000	45.00	7.03	52.03	54.00	-1.97	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Vertical

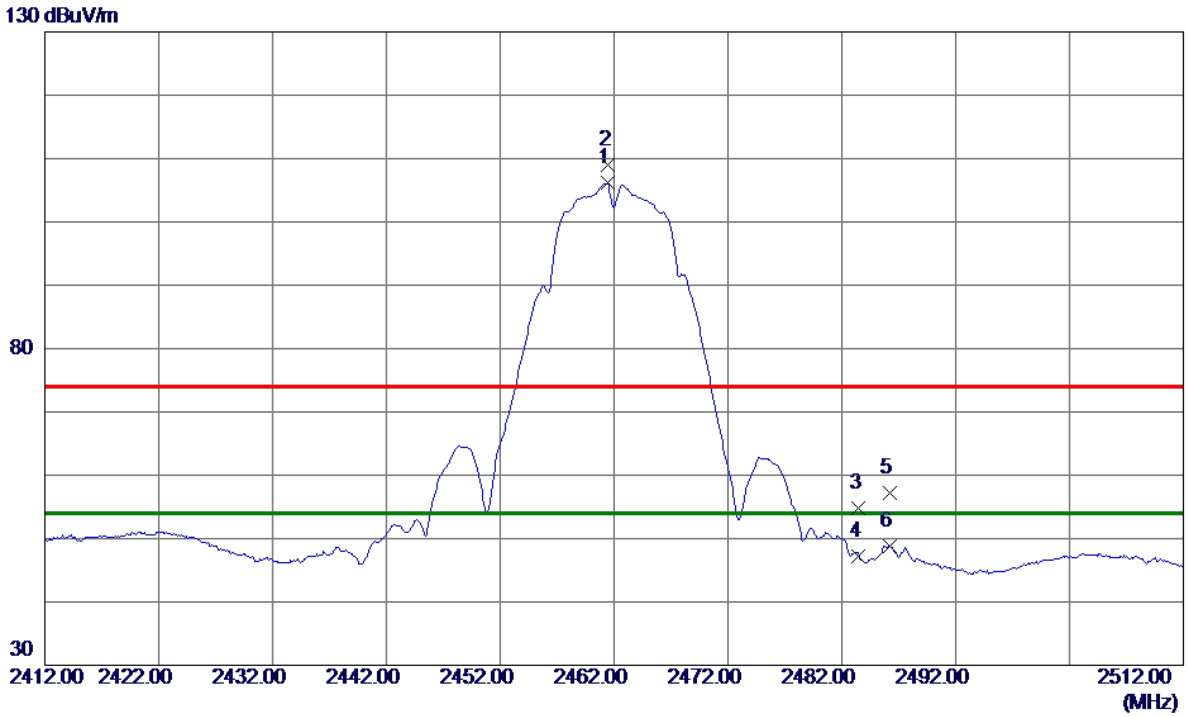


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8400	50.54	4.44	54.98	74.00	-19.02	Peak	
2 *	4923.9200	48.36	4.44	52.80	54.00	-1.20	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Horizontal

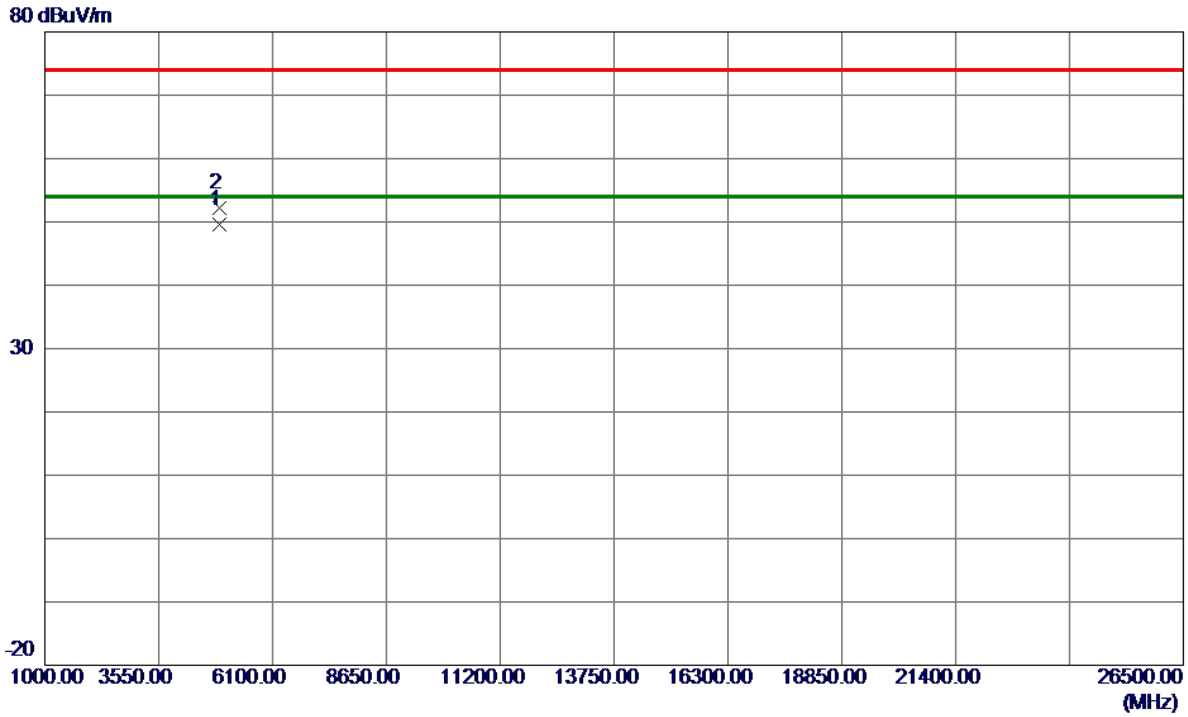


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.4000	99.08	7.03	106.11	54.00	52.11	AVG	No Limit
2	2461.5000	101.95	7.03	108.98	74.00	34.98	Peak	No Limit
3	2483.5000	47.75	7.03	54.78	74.00	-19.22	Peak	
4	2483.5000	40.14	7.03	47.17	54.00	-6.83	AVG	
5	2486.2000	50.22	7.03	57.25	74.00	-16.75	Peak	
6	2486.2000	41.75	7.03	48.78	54.00	-5.22	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz

Horizontal

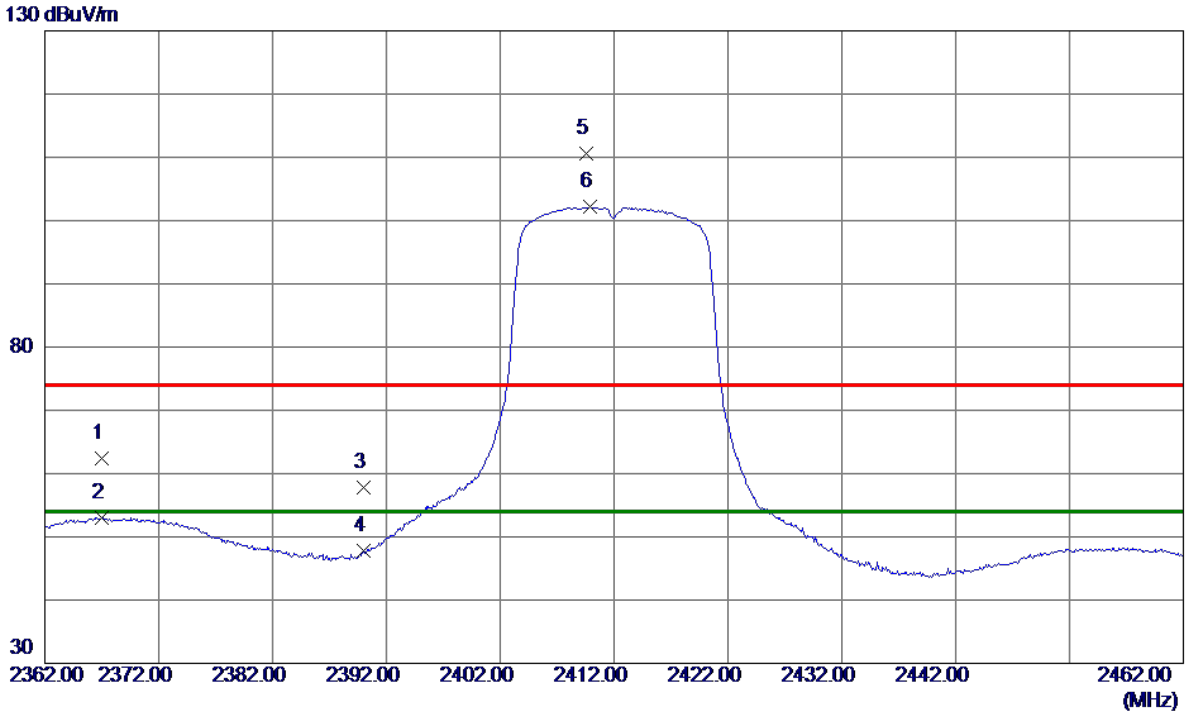


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.9700	45.14	4.44	49.58	54.00	-4.42	AVG	
2	4924.0099	47.77	4.44	52.21	74.00	-21.79	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Vertical

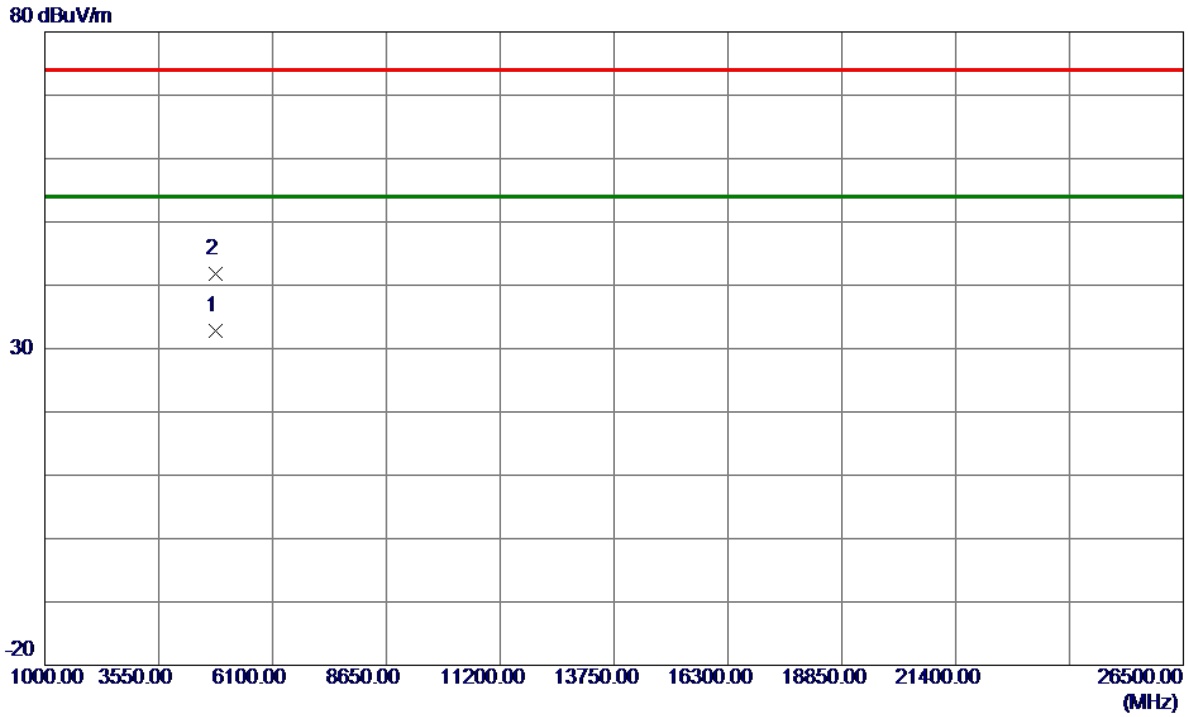


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2367.0000	55.46	7.01	62.47	74.00	-11.53	Peak	
2	2367.0000	46.07	7.01	53.08	54.00	-0.92	AVG	
3	2390.0000	50.84	7.01	57.85	74.00	-16.15	Peak	
4	2390.0000	40.70	7.01	47.71	54.00	-6.29	AVG	
5	2409.6000	103.50	7.02	110.52	74.00	36.52	Peak	No Limit
6 *	2409.9000	95.15	7.02	102.17	54.00	48.17	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Vertical

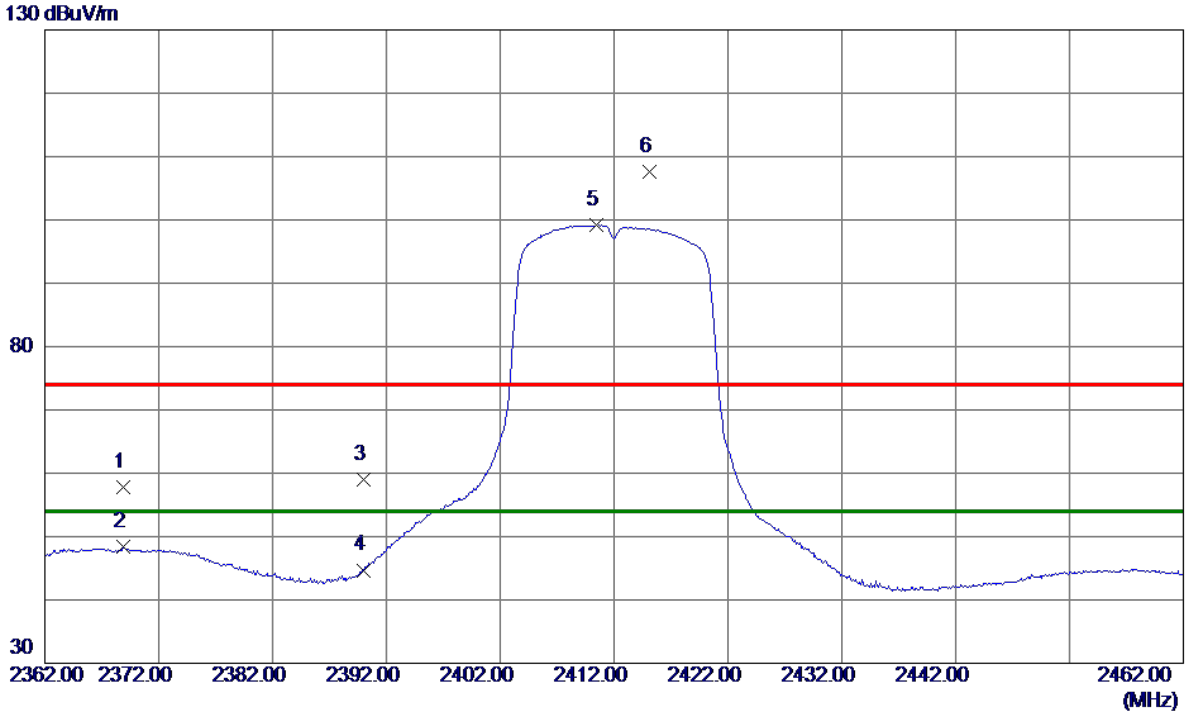


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9200	28.60	4.23	32.83	54.00	-21.17	AVG	
2	4825.2400	37.61	4.23	41.84	74.00	-32.16	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Horizontal

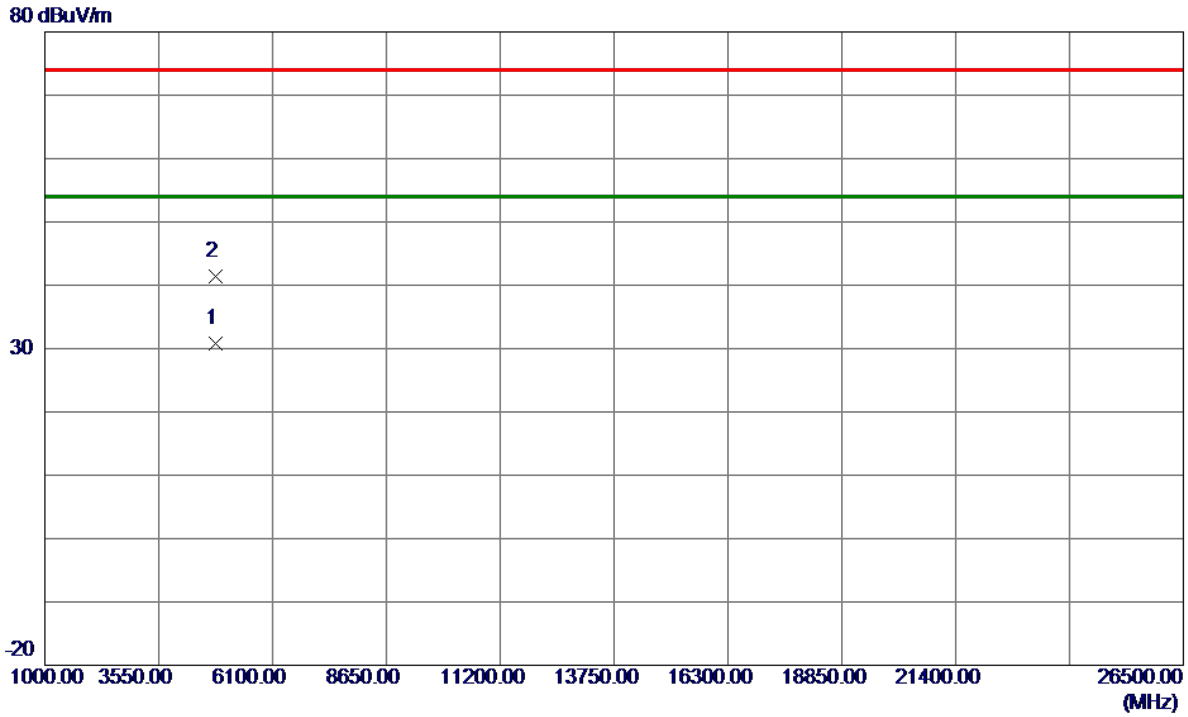


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2368.9000	50.80	7.01	57.81	74.00	-16.19	Peak	
2	2368.9000	41.31	7.01	48.32	54.00	-5.68	AVG	
3	2390.0000	52.01	7.01	59.02	74.00	-14.98	Peak	
4	2390.0000	37.69	7.01	44.70	54.00	-9.30	AVG	
5 *	2410.4000	92.15	7.02	99.17	54.00	45.17	AVG	No Limit
6	2415.1000	100.61	7.02	107.63	74.00	33.63	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz

Horizontal

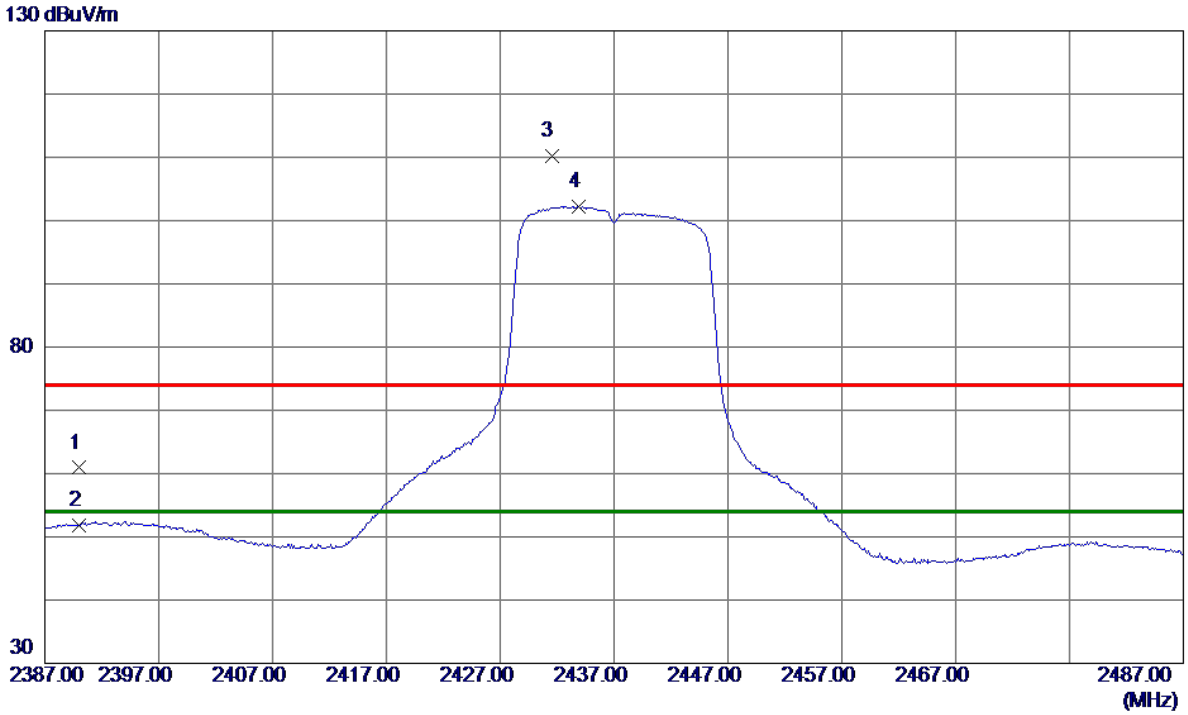


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9000	26.66	4.23	30.89	54.00	-23.11	AVG	
2	4824.5800	37.26	4.23	41.49	74.00	-32.51	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Vertical

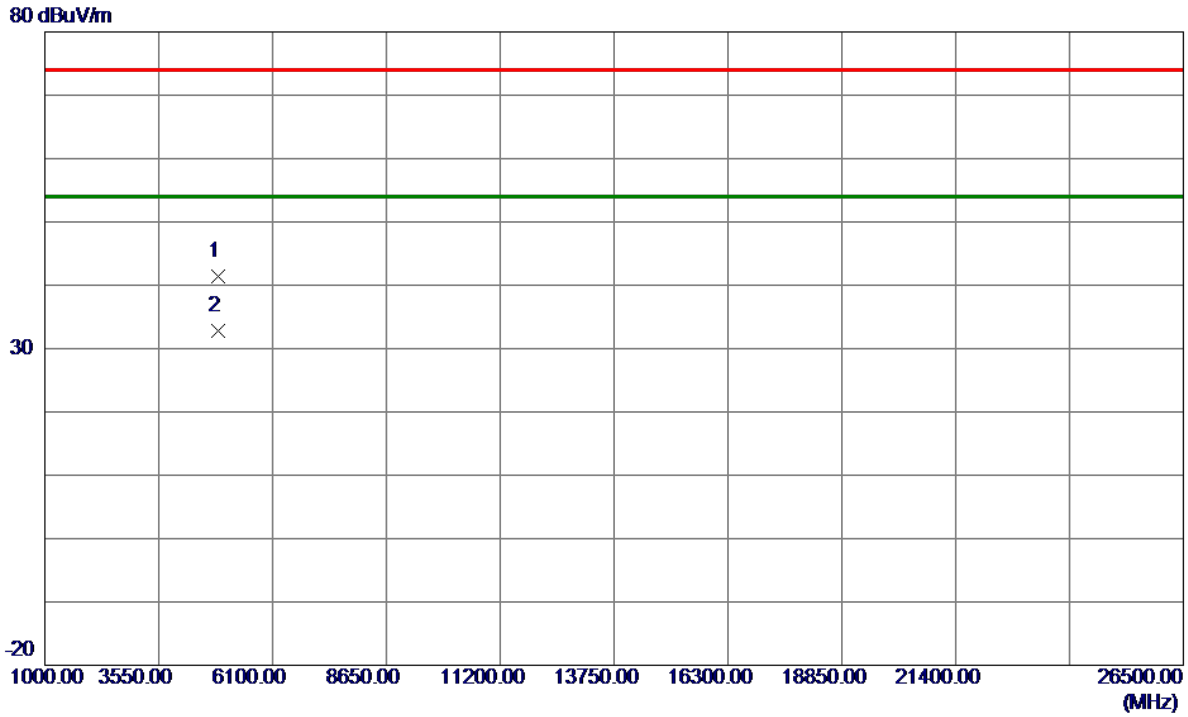


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	53.89	7.01	60.90	74.00	-13.10	Peak	
2	2390.0000	44.82	7.01	51.83	54.00	-2.17	AVG	
3	2431.5000	103.09	7.02	110.11	74.00	36.11	Peak	No Limit
4 *	2433.9000	95.21	7.02	102.23	54.00	48.23	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Vertical

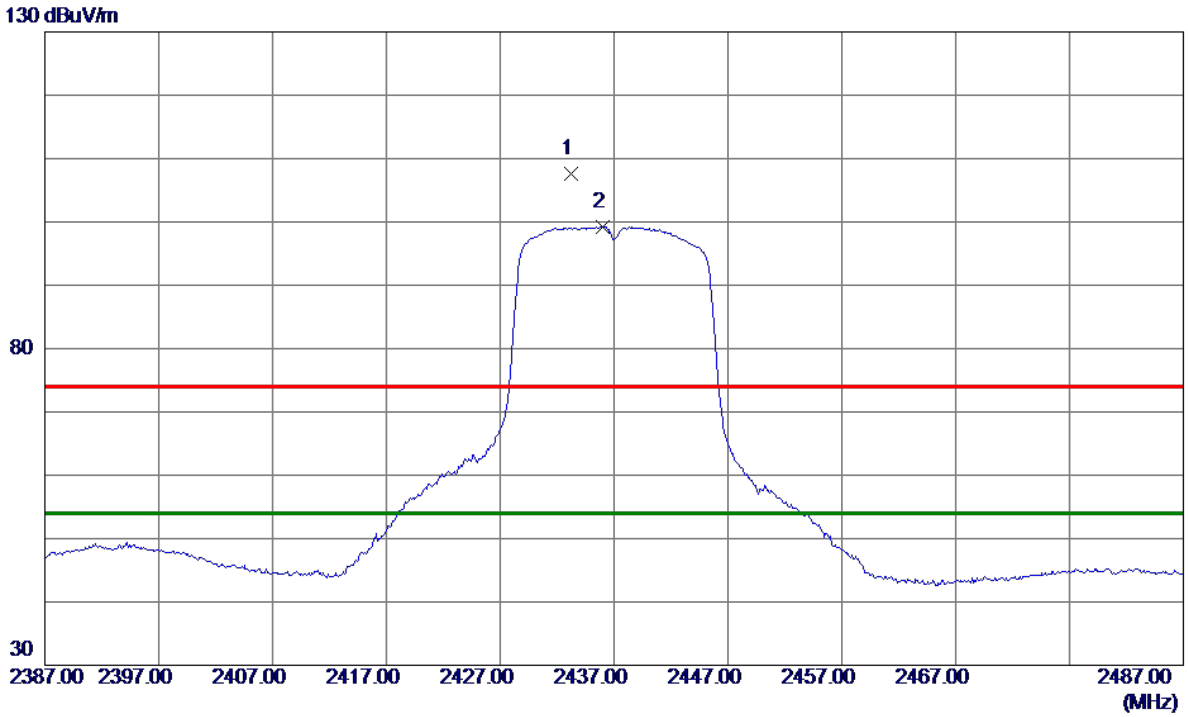


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.0800	37.07	4.33	41.40	74.00	-32.60	Peak	
2 *	4873.9600	28.55	4.34	32.89	54.00	-21.11	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Horizontal

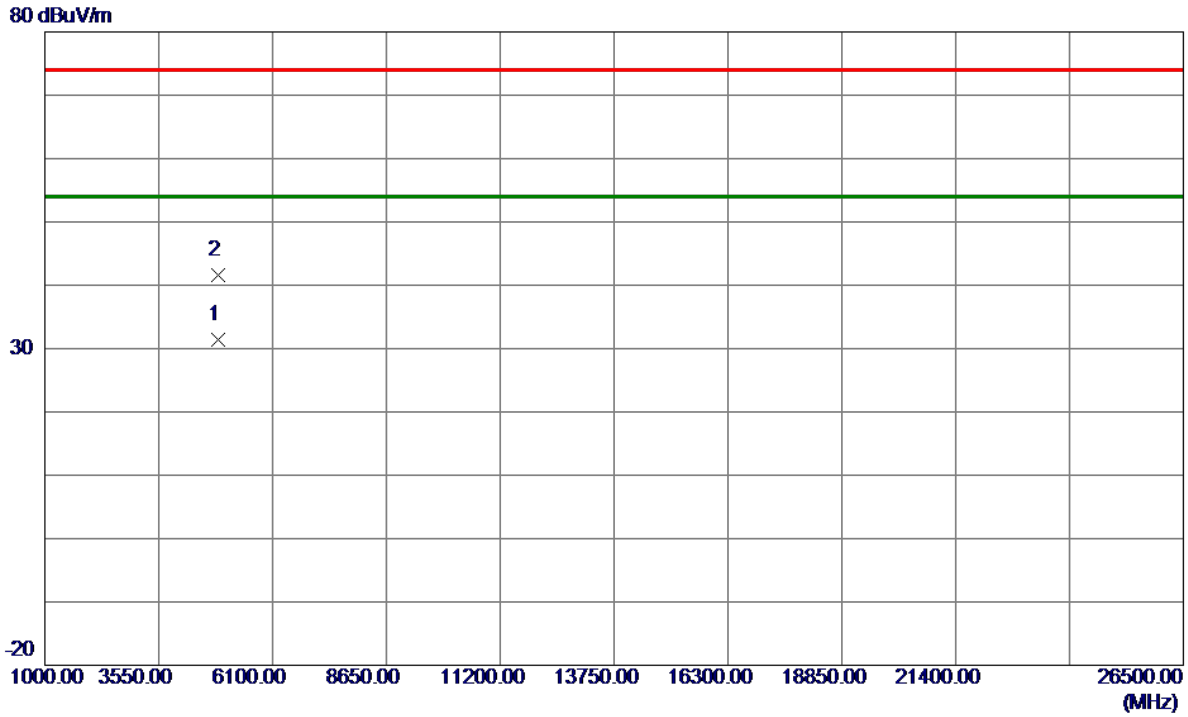


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.2000	100.55	7.02	107.57	74.00	33.57	Peak	No Limit
2 *	2436.0000	92.27	7.02	99.29	54.00	45.29	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz

Horizontal

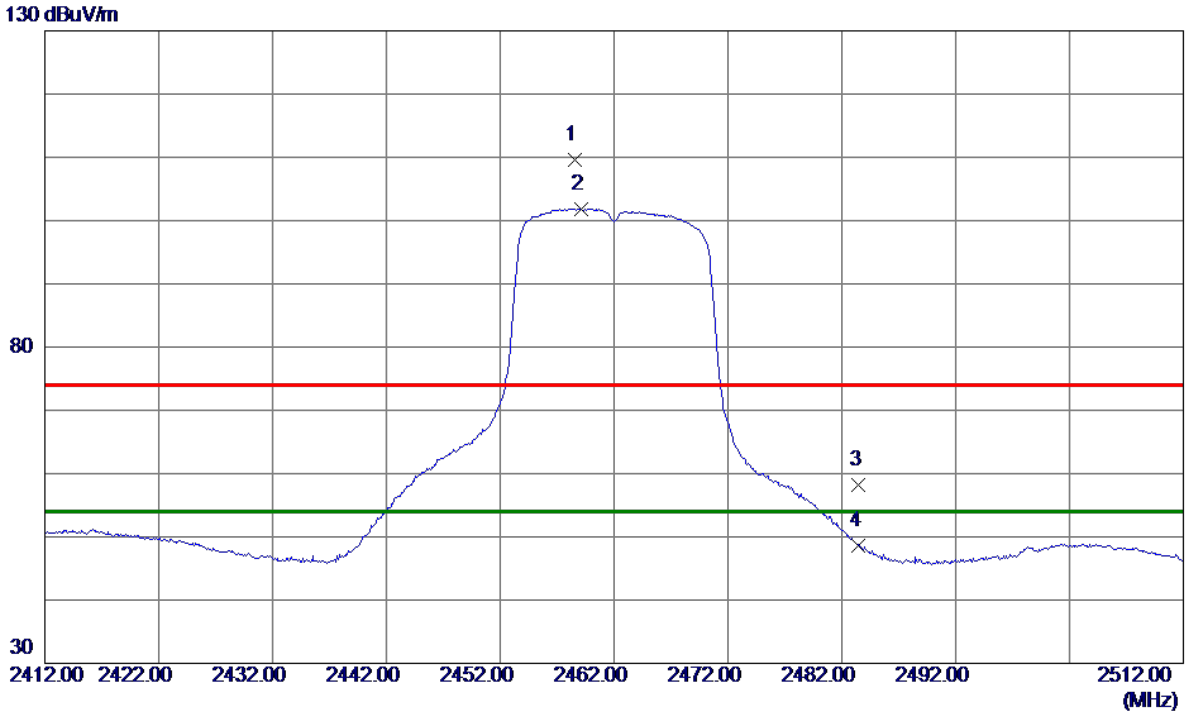


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0600	27.01	4.34	31.35	54.00	-22.65	AVG	
2	4874.2000	37.33	4.34	41.67	74.00	-32.33	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Vertical

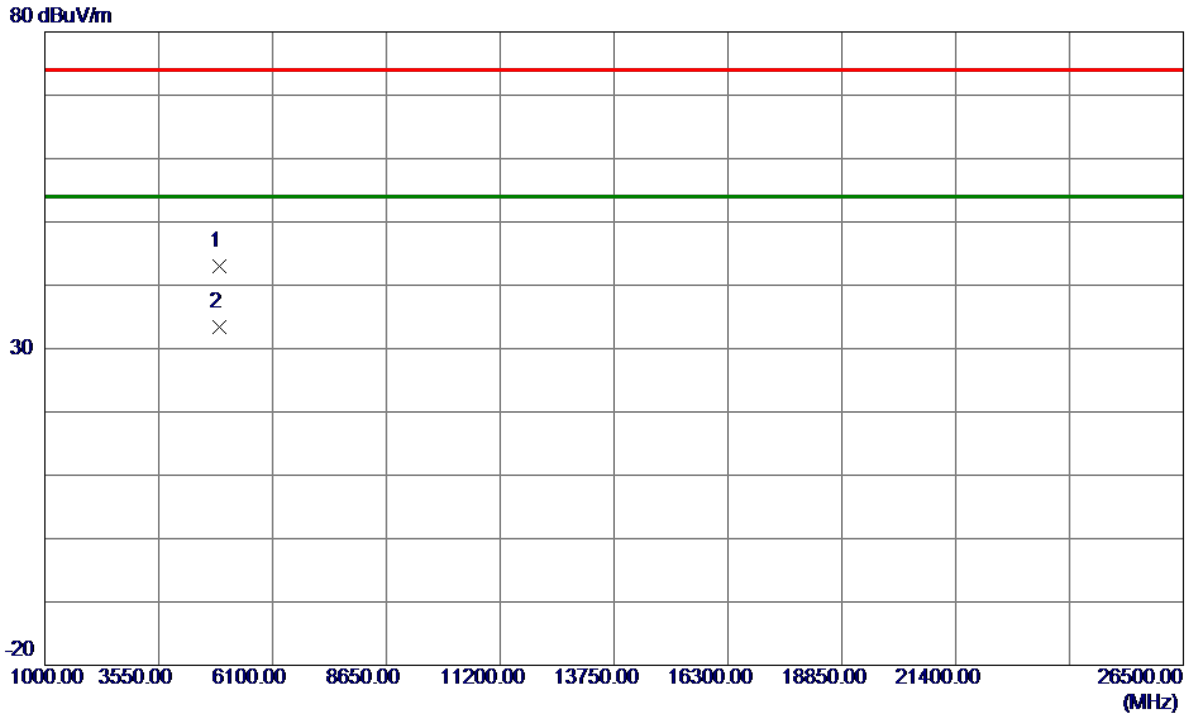


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2458.6000	102.66	7.03	109.69	74.00	35.69	Peak	No Limit
2 *	2459.1000	94.86	7.03	101.89	54.00	47.89	AVG	No Limit
3	2483.5000	51.19	7.03	58.22	74.00	-15.78	Peak	
4	2483.5000	41.50	7.03	48.53	54.00	-5.47	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Vertical

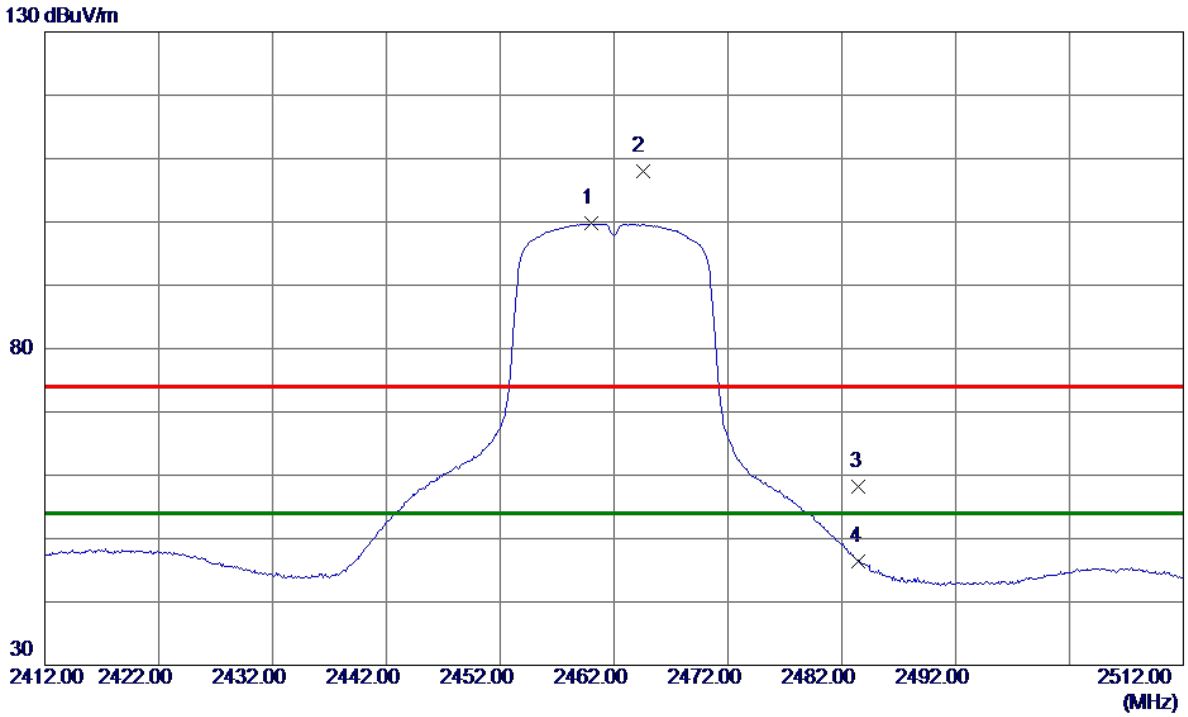


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.3800	38.49	4.44	42.93	74.00	-31.07	Peak	
2 *	4923.9000	29.03	4.44	33.47	54.00	-20.53	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal

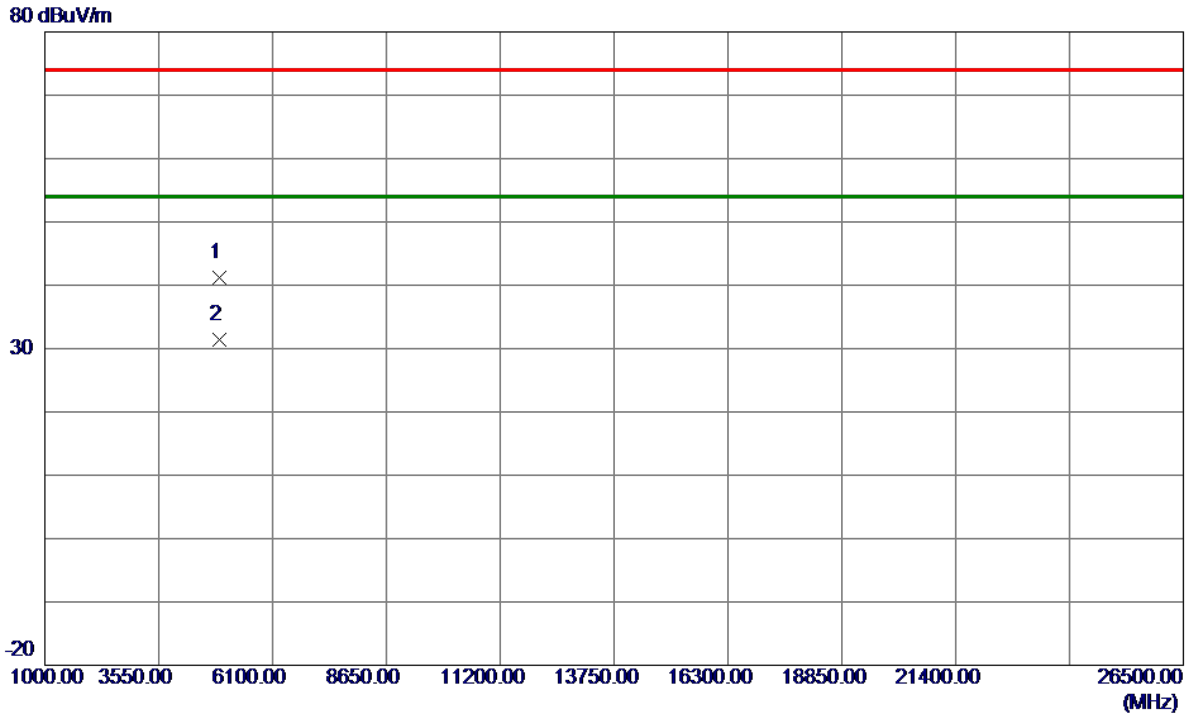


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.0000	92.70	7.03	99.73	54.00	45.73	AVG	No Limit
2	2464.5000	100.94	7.03	107.97	74.00	33.97	Peak	No Limit
3	2483.5000	51.10	7.03	58.13	74.00	-15.87	Peak	
4	2483.5000	39.44	7.03	46.47	54.00	-7.53	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal

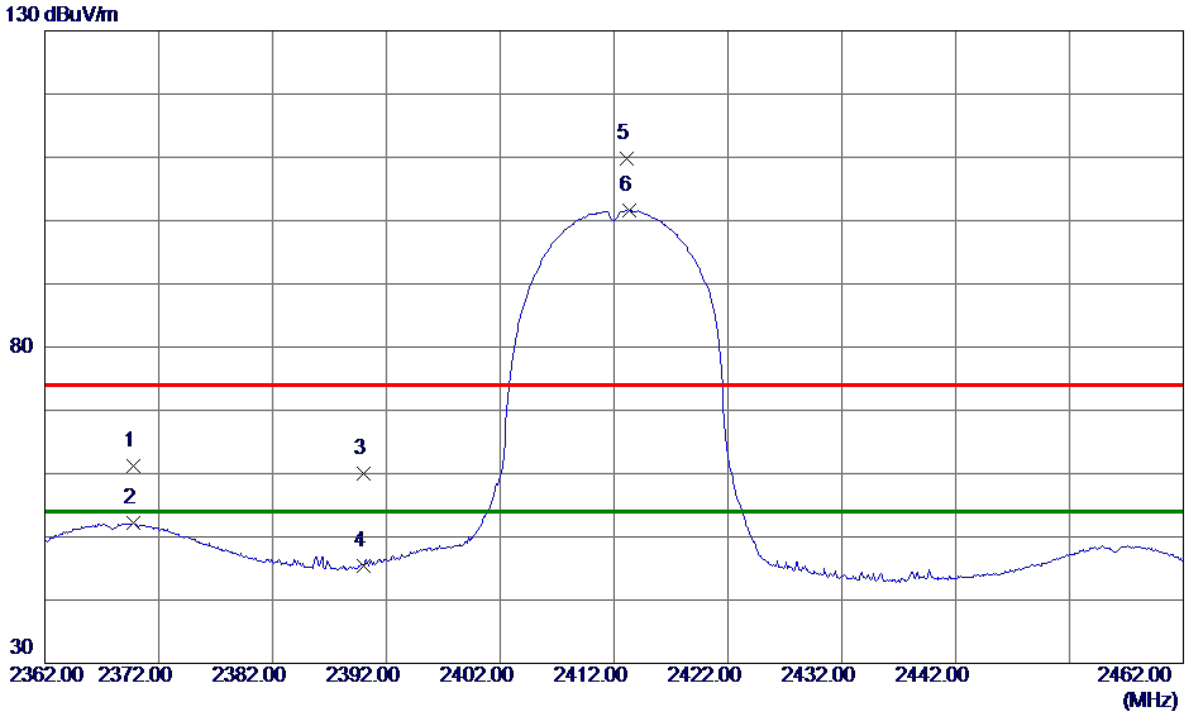


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.6000	36.78	4.44	41.22	74.00	-32.78	Peak	
2 *	4923.7799	26.94	4.44	31.38	54.00	-22.62	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

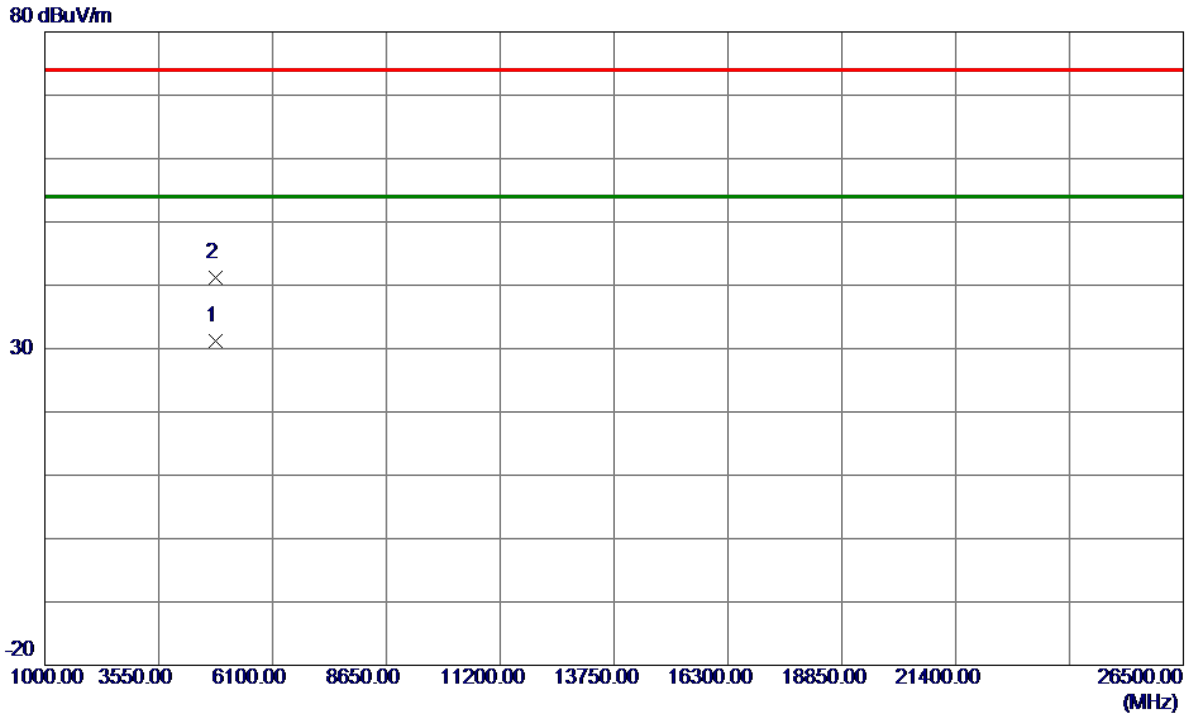


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2369.8000	54.10	7.01	61.11	74.00	-12.89	Peak	
2	2369.8000	45.12	7.01	52.13	54.00	-1.87	AVG	
3	2390.0000	53.03	7.01	60.04	74.00	-13.96	Peak	
4	2390.0000	38.41	7.01	45.42	54.00	-8.58	AVG	
5	2413.1000	102.80	7.02	109.82	74.00	35.82	Peak	No Limit
6 *	2413.3000	94.53	7.02	101.55	54.00	47.55	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

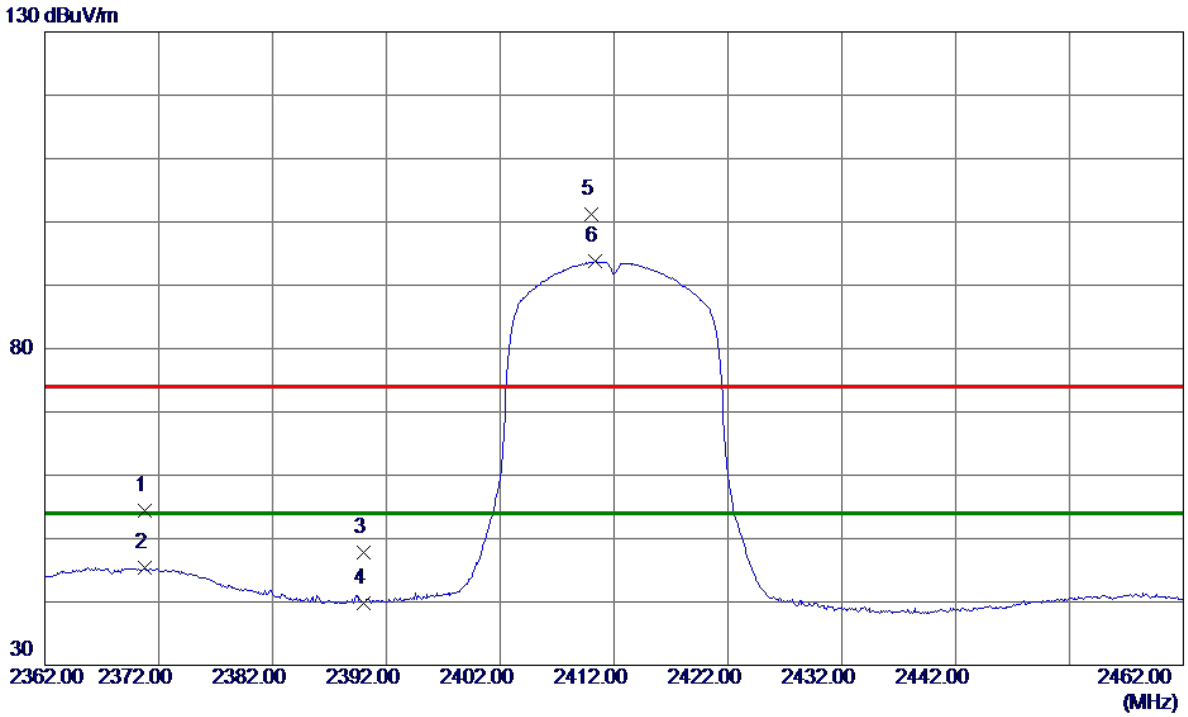


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4816.9000	27.04	4.22	31.26	54.00	-22.74	AVG	
2	4818.5500	36.97	4.22	41.19	74.00	-32.81	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

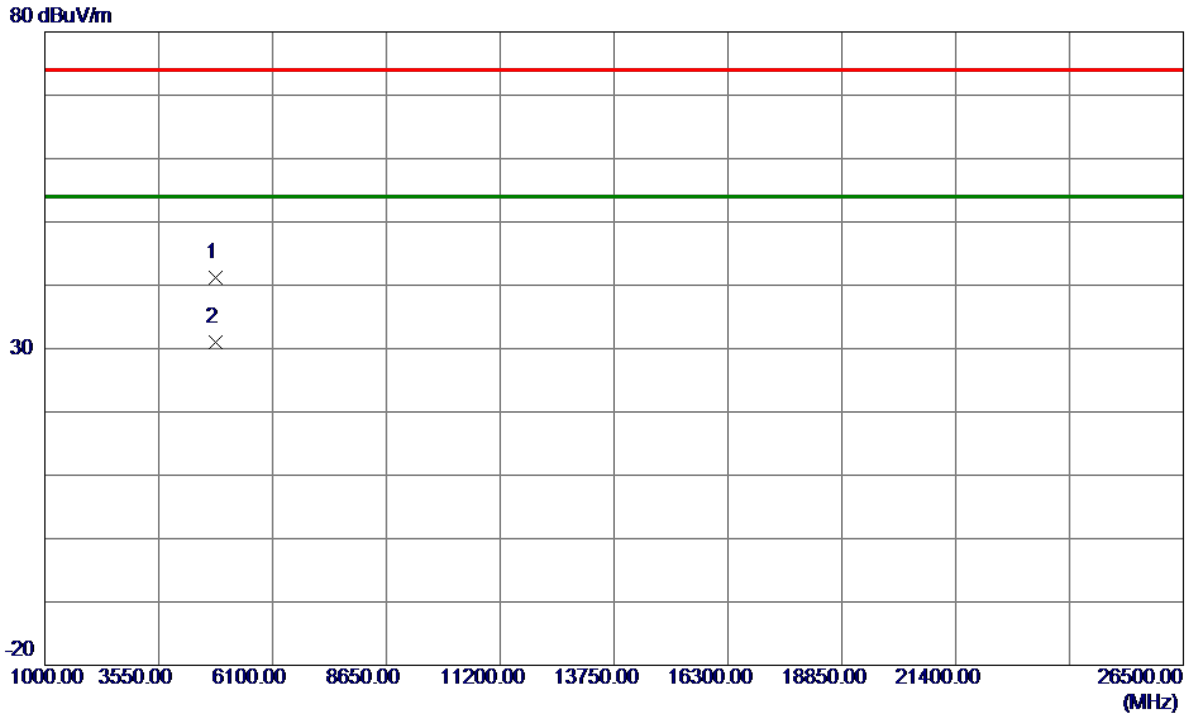


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2370.8000	47.46	7.01	54.47	74.00	-19.53	Peak	
2	2370.8000	38.34	7.01	45.35	54.00	-8.65	AVG	
3	2390.0000	40.85	7.01	47.86	74.00	-26.14	Peak	
4	2390.0000	32.75	7.01	39.76	54.00	-14.24	AVG	
5	2410.0000	94.25	7.02	101.27	74.00	27.27	Peak	No Limit
6 *	2410.3000	86.73	7.02	93.75	54.00	39.75	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

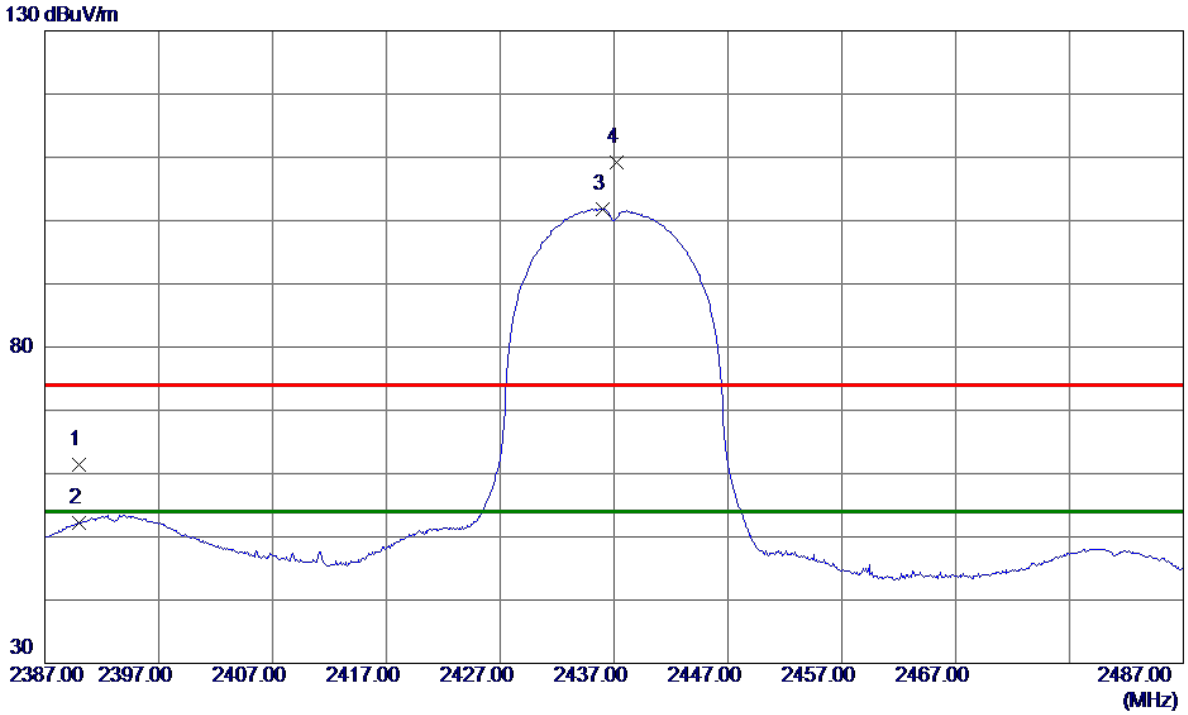


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4818.2000	37.01	4.22	41.23	74.00	-32.77	Peak	
2 *	4823.8500	26.85	4.23	31.08	54.00	-22.92	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

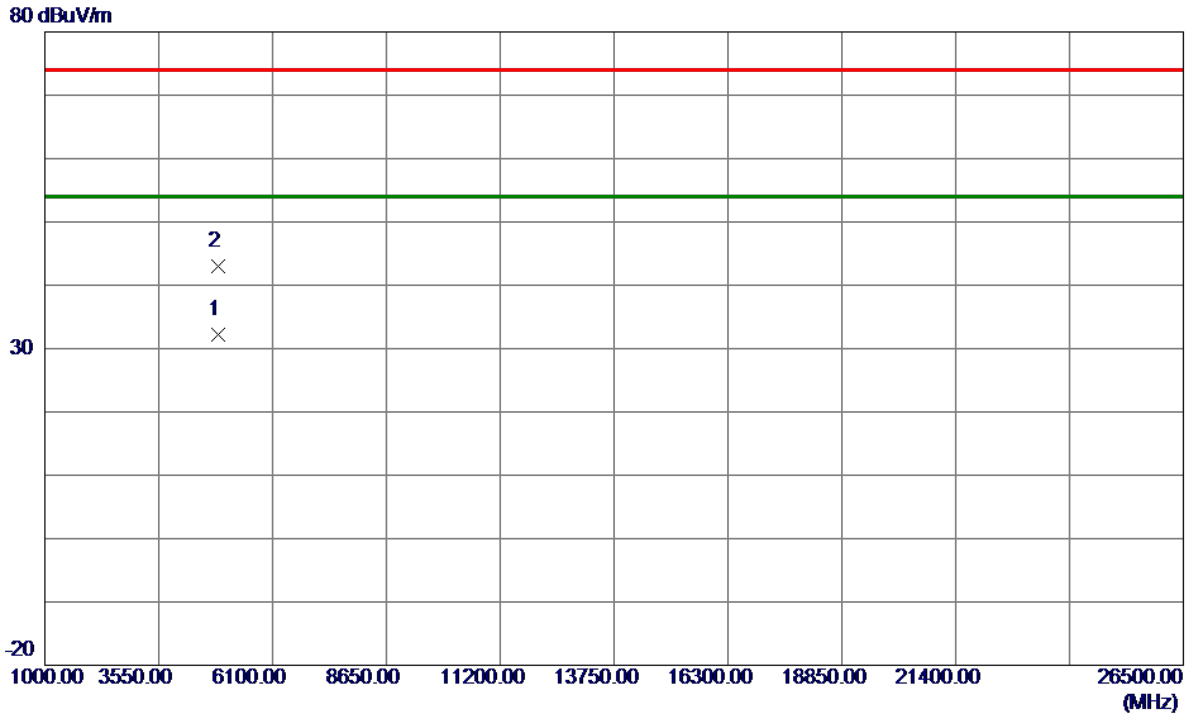


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.30	7.01	61.31	74.00	-12.69	Peak	
2	2390.0000	45.21	7.01	52.22	54.00	-1.78	AVG	
3 *	2436.0000	94.87	7.02	101.89	54.00	47.89	AVG	No Limit
4	2437.2000	102.26	7.02	109.28	74.00	35.28	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

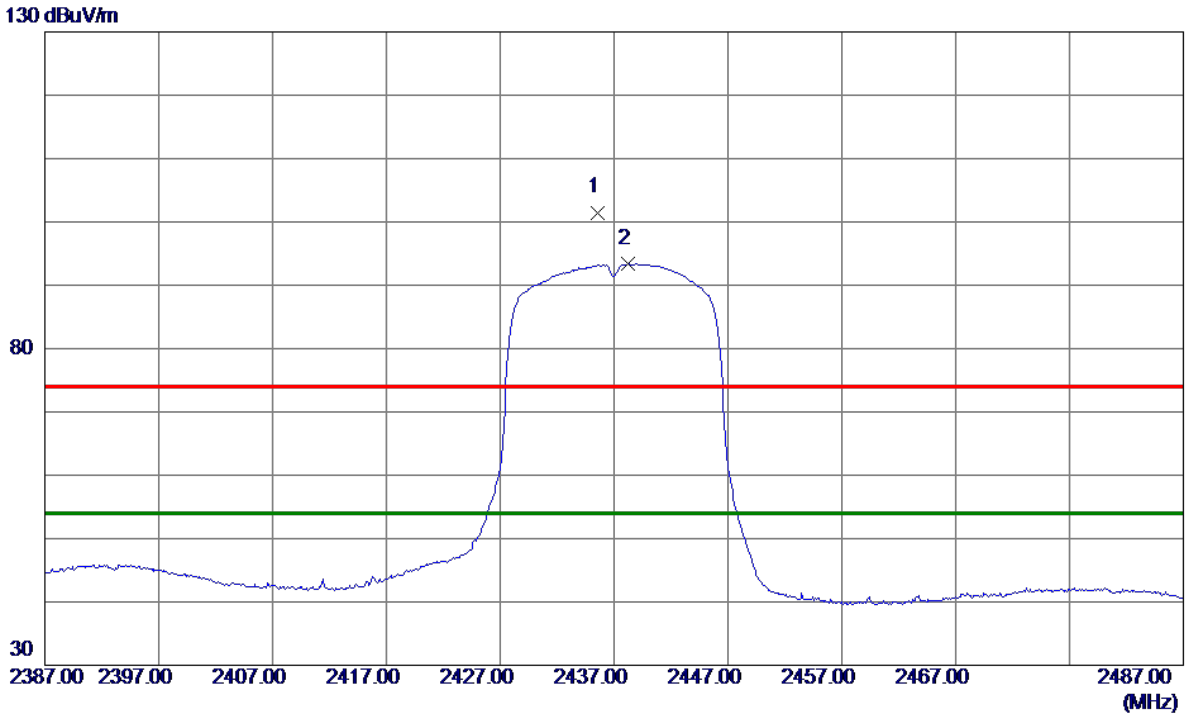


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880.6500	27.85	4.35	32.20	54.00	-21.80	AVG	
2	4882.0000	38.62	4.35	42.97	74.00	-31.03	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

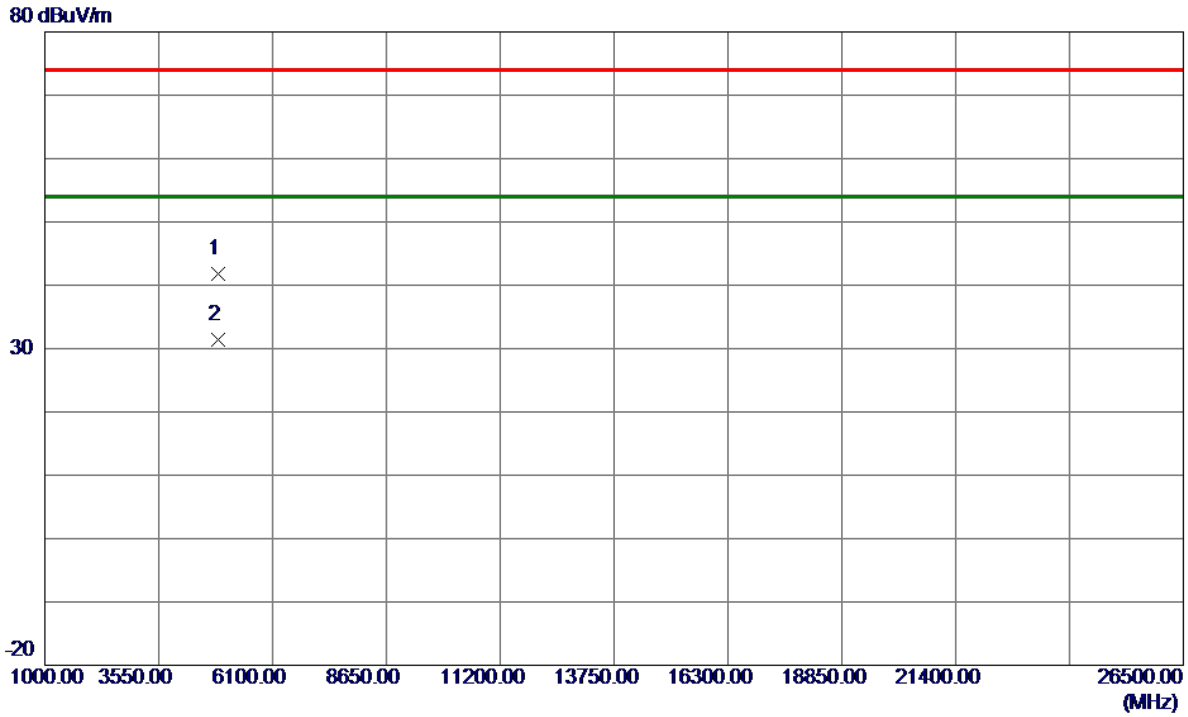


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.6000	94.48	7.02	101.50	74.00	27.50	Peak	No Limit
2 *	2438.2000	86.36	7.02	93.38	54.00	39.38	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

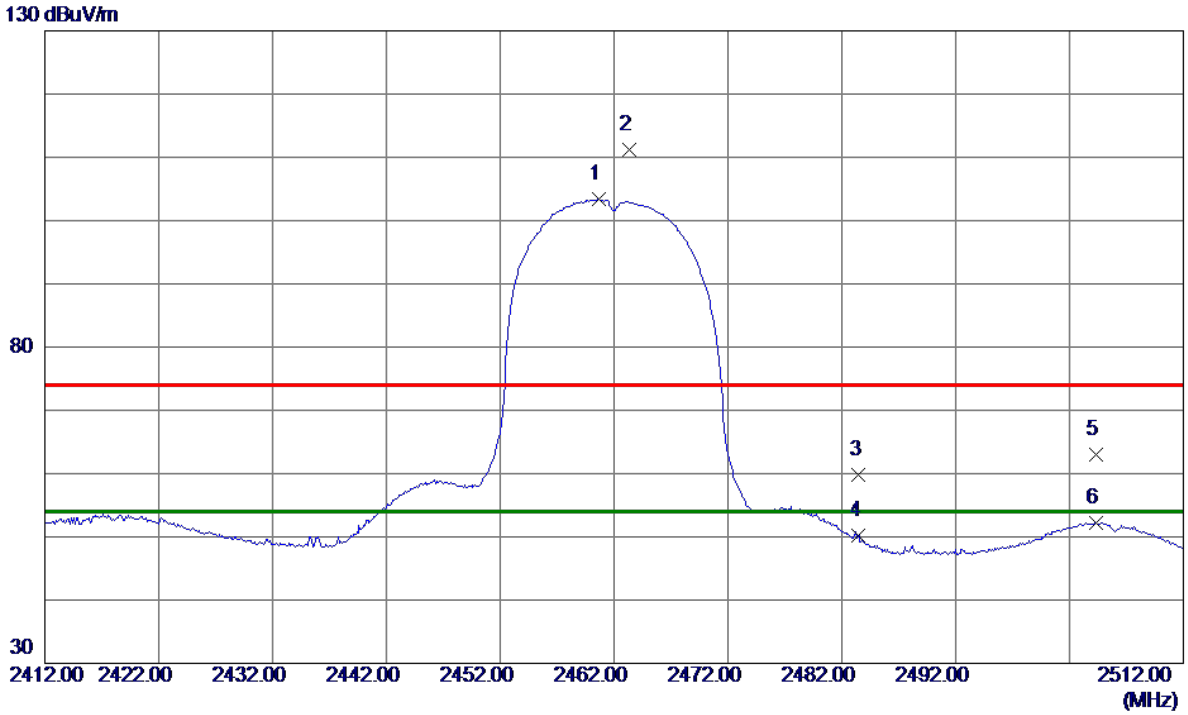


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.5000	37.53	4.33	41.86	74.00	-32.14	Peak	
2 *	4874.0000	27.09	4.34	31.43	54.00	-22.57	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

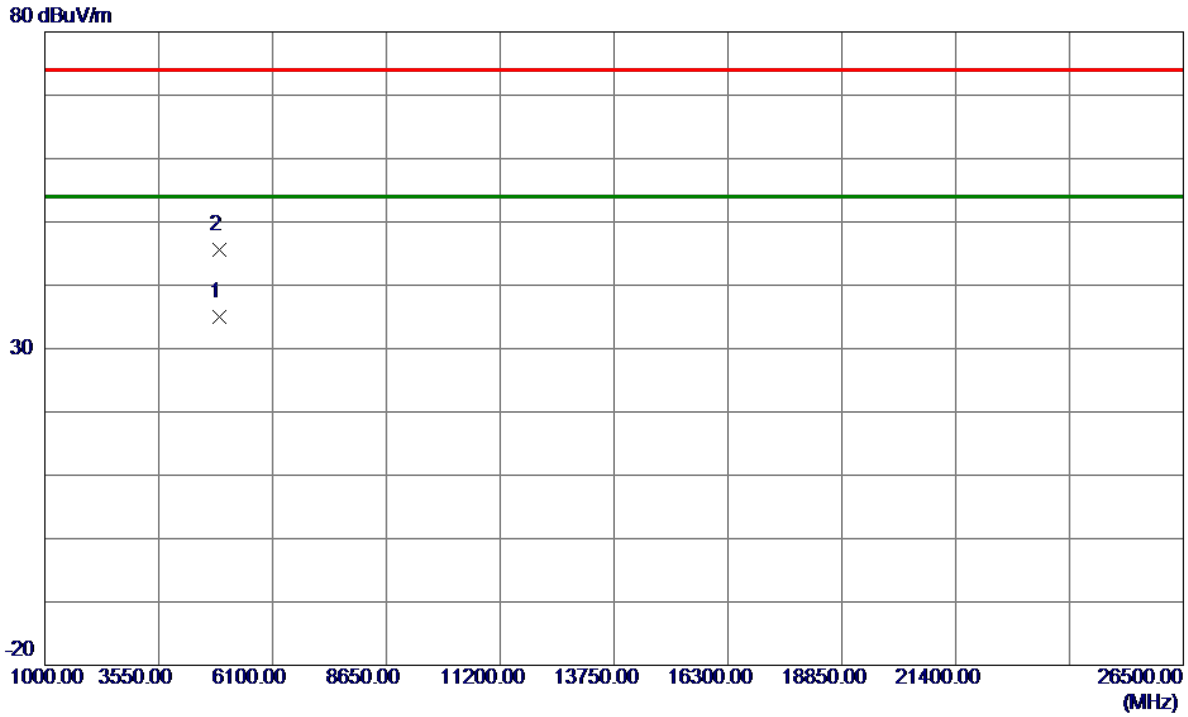


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.7000	96.31	7.03	103.34	54.00	49.34	AVG	No Limit
2	2463.3000	104.25	7.03	111.28	74.00	37.28	Peak	No Limit
3	2483.5000	52.69	7.03	59.72	74.00	-14.28	Peak	
4	2483.5000	43.09	7.03	50.12	54.00	-3.88	AVG	
5	2504.3000	55.98	7.07	63.05	74.00	-10.95	Peak	
6	2504.3000	45.09	7.07	52.16	54.00	-1.84	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

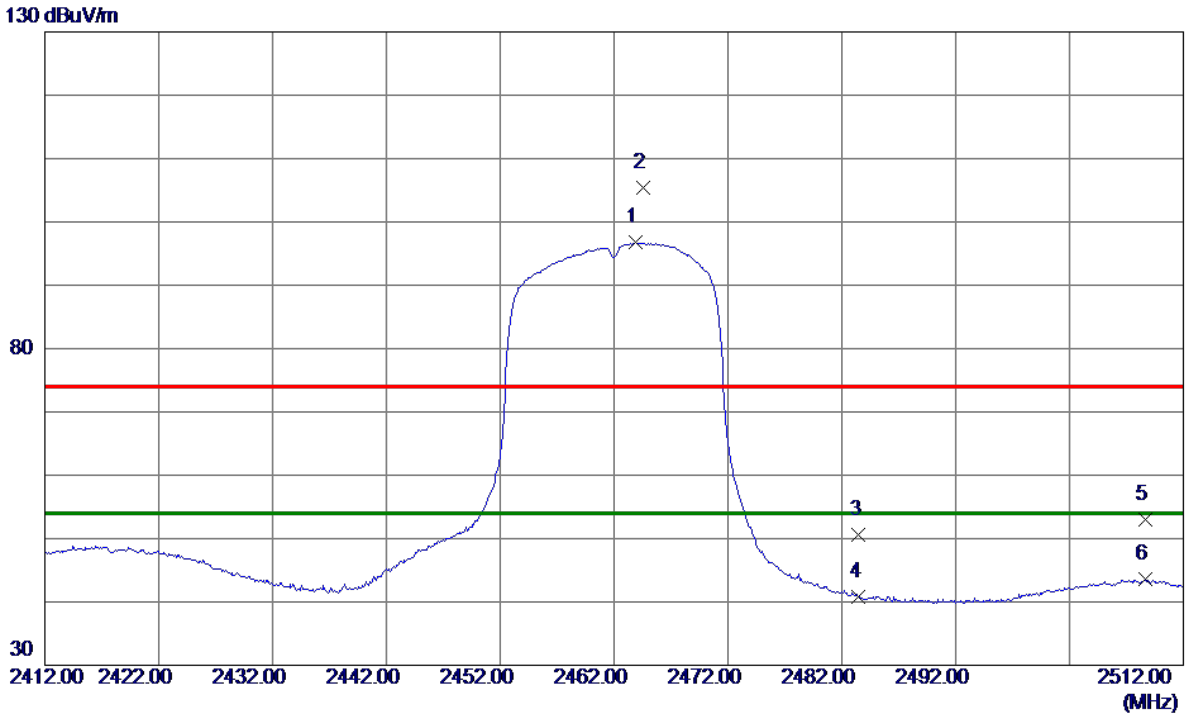


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915.3500	30.54	4.42	34.96	54.00	-19.04	AVG	
2	4918.9500	41.20	4.43	45.63	74.00	-28.37	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

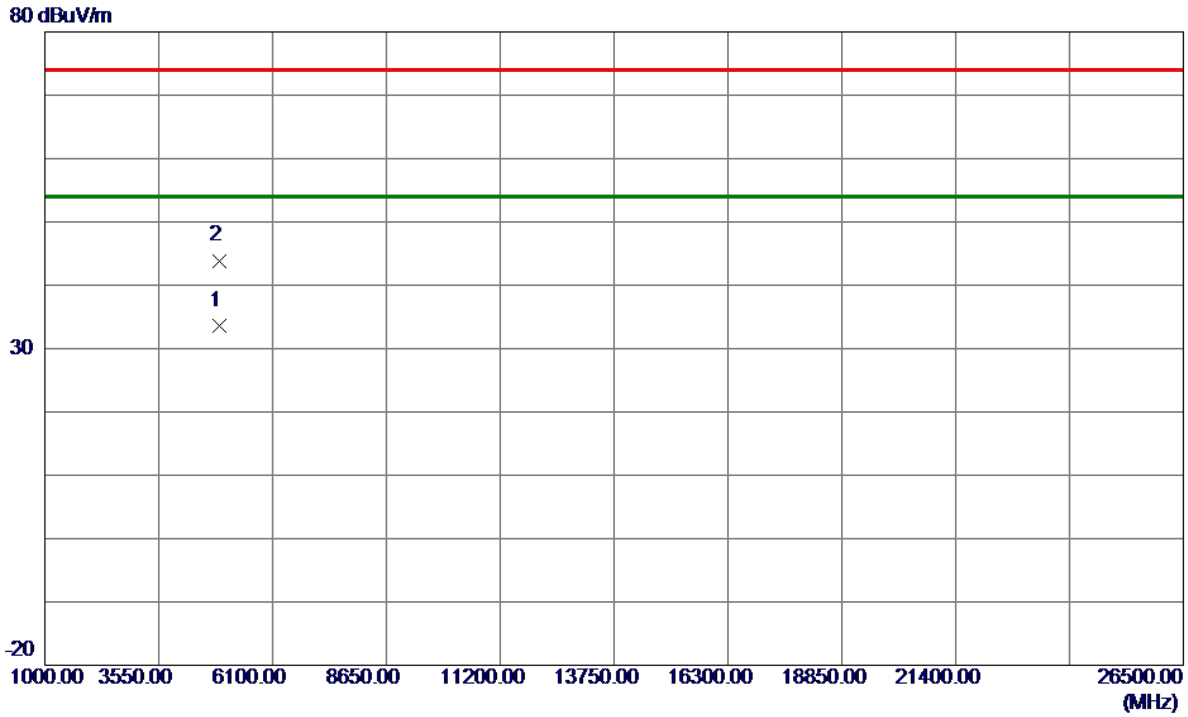


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463.9000	89.72	7.03	96.75	54.00	42.75	AVG	No Limit
2	2464.6000	98.45	7.03	105.48	74.00	31.48	Peak	No Limit
3	2483.5000	43.63	7.03	50.66	74.00	-23.34	Peak	
4	2483.5000	33.78	7.03	40.81	54.00	-13.19	AVG	
5	2508.7000	45.90	7.10	53.00	74.00	-21.00	Peak	
6	2508.7000	36.46	7.10	43.56	54.00	-10.44	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

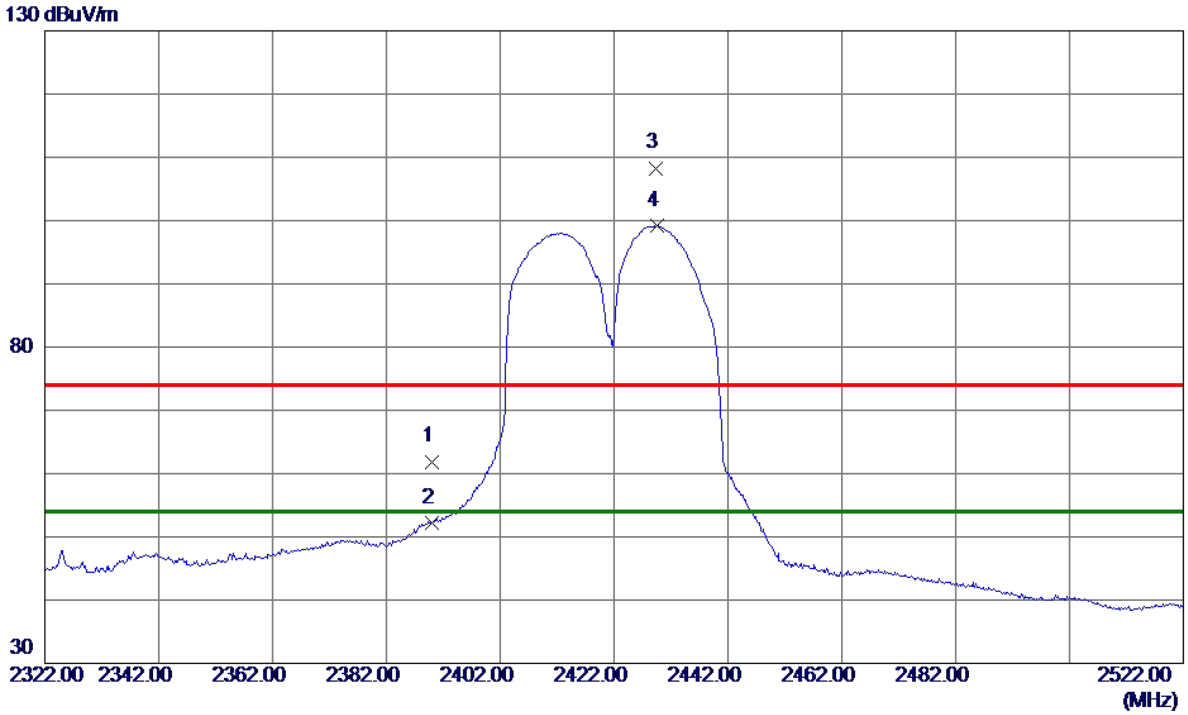


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915.5500	29.21	4.42	33.63	54.00	-20.37	AVG	
2	4916.7500	39.47	4.43	43.90	74.00	-30.10	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

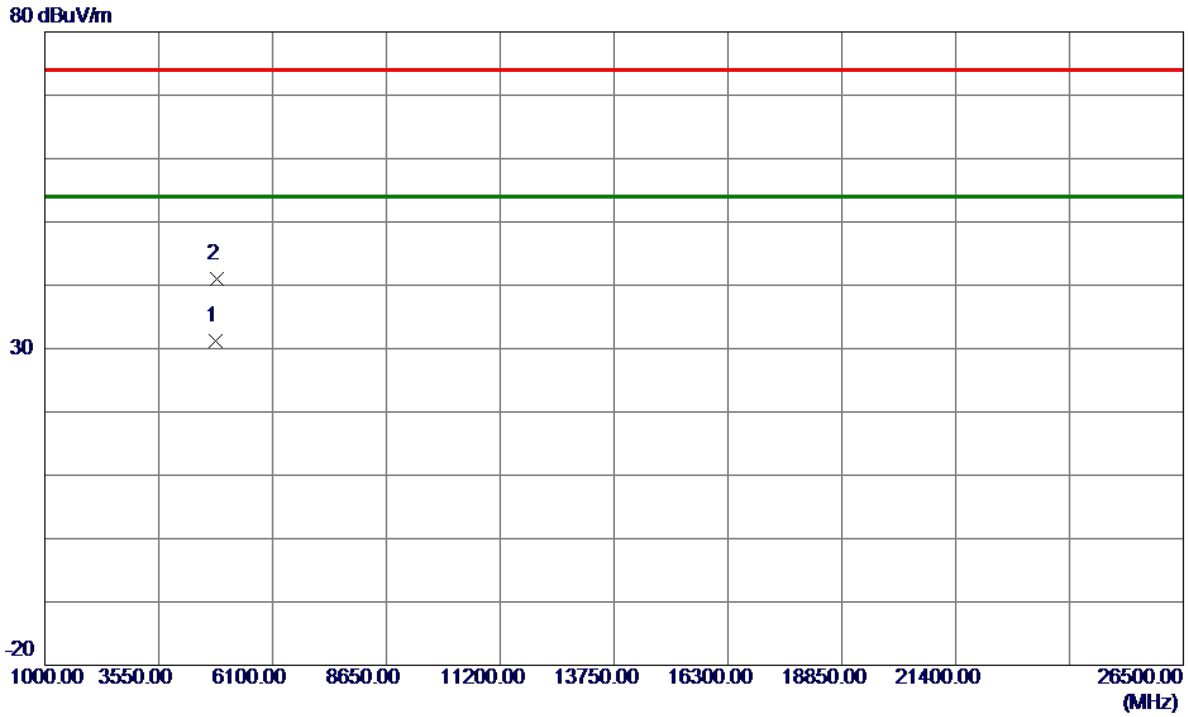


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.89	7.01	61.90	74.00	-12.10	Peak	
2	2390.0000	45.21	7.01	52.22	54.00	-1.78	AVG	
3	2429.4000	101.28	7.02	108.30	74.00	34.30	Peak	No Limit
4 *	2429.6000	92.18	7.02	99.20	54.00	45.20	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

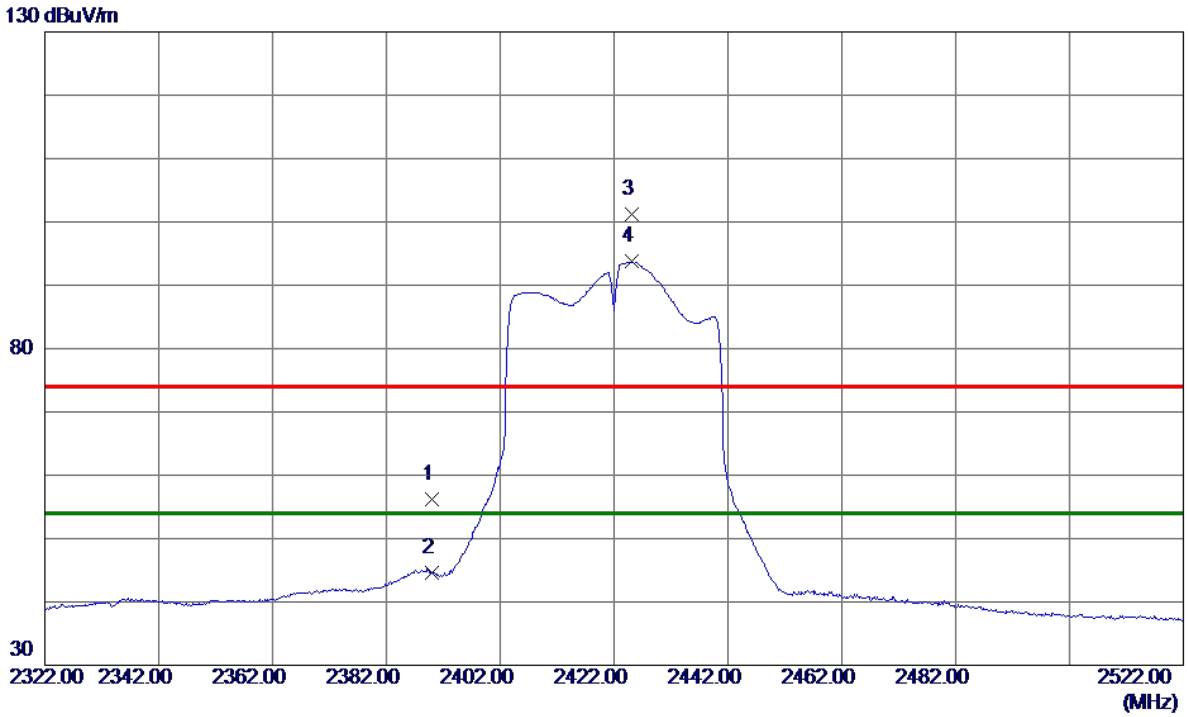


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4837.3500	26.99	4.26	31.25	54.00	-22.75	AVG	
2	4840.2000	36.76	4.27	41.03	74.00	-32.97	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

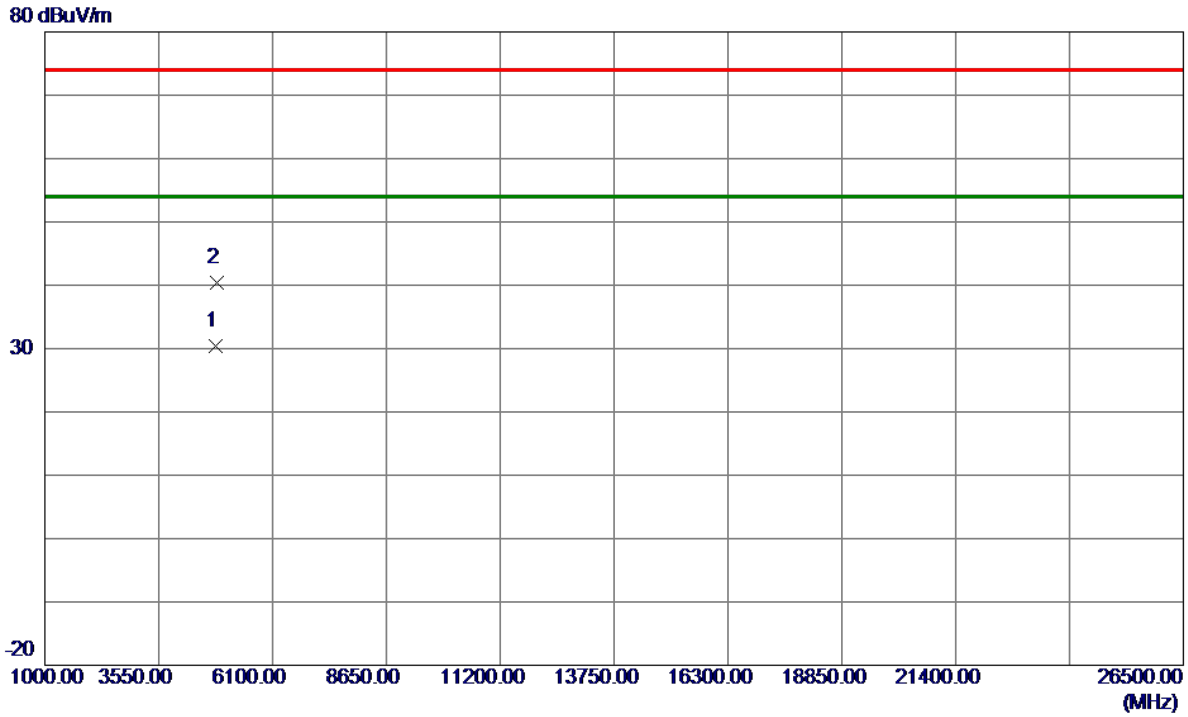


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49.21	7.01	56.22	74.00	-17.78	Peak	
2	2390.0000	37.55	7.01	44.56	54.00	-9.44	AVG	
3	2425.2000	94.22	7.02	101.24	74.00	27.24	Peak	No Limit
4 *	2425.2000	86.69	7.02	93.71	54.00	39.71	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

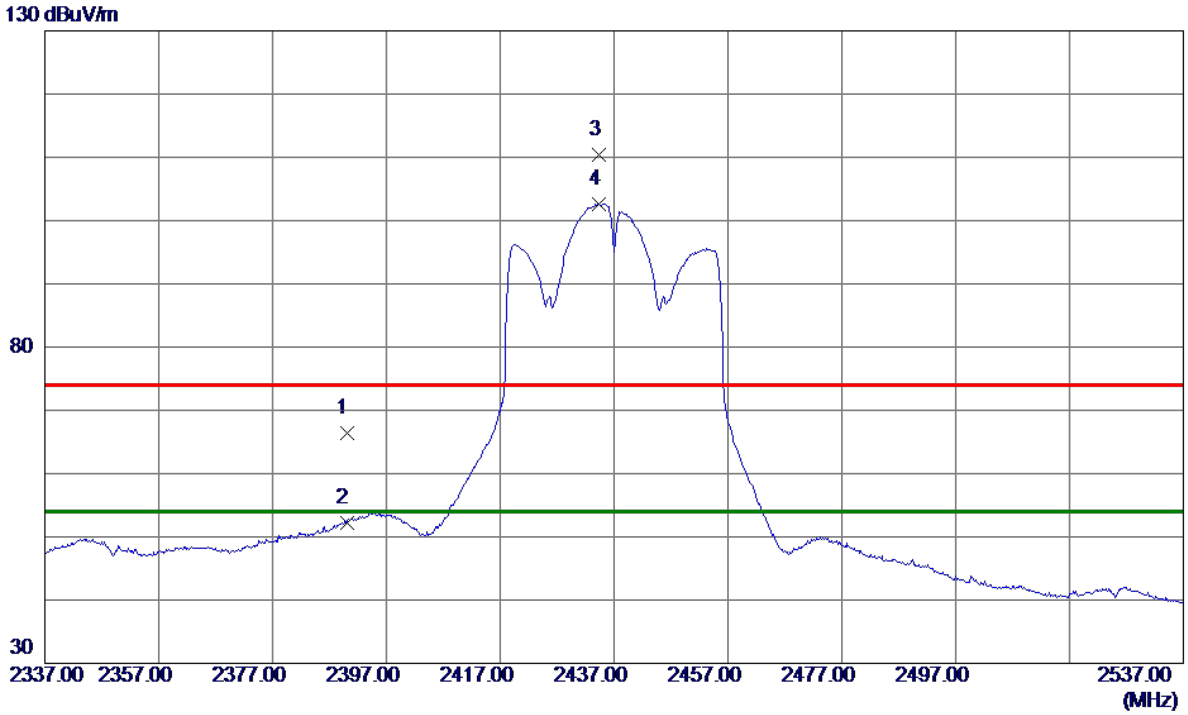


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4836.2000	26.22	4.26	30.48	54.00	-23.52	AVG	
2	4839.2500	36.21	4.26	40.47	74.00	-33.53	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

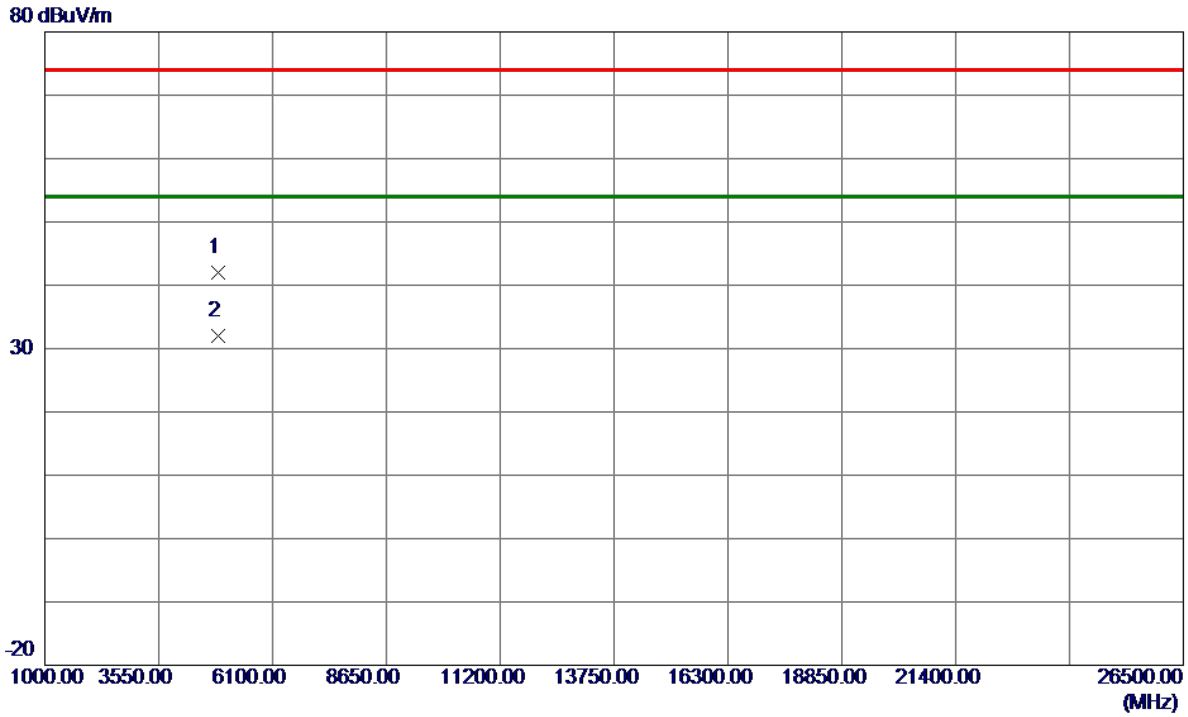


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	59.37	7.01	66.38	74.00	-7.62	Peak	
2	2390.0000	45.14	7.01	52.15	54.00	-1.85	AVG	
3	2434.4000	103.46	7.02	110.48	74.00	36.48	Peak	No Limit
4 *	2434.4000	95.53	7.02	102.55	54.00	48.55	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

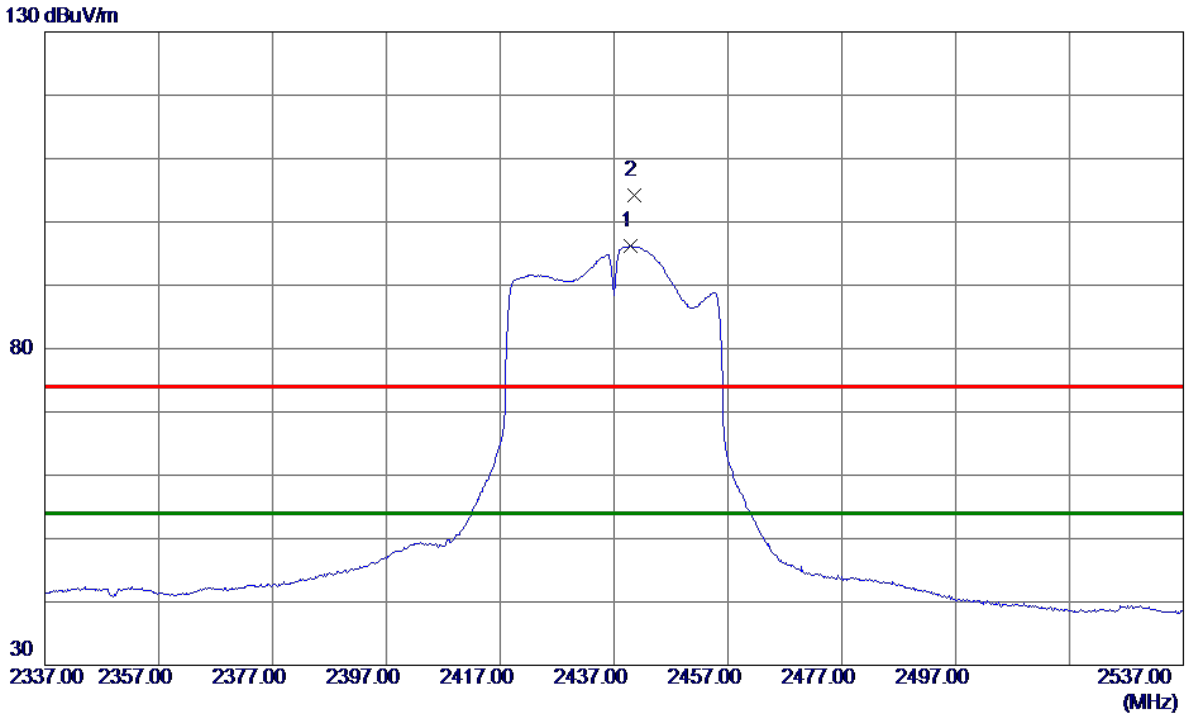


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4882.1500	37.67	4.35	42.02	74.00	-31.98	Peak	
2 *	4882.4000	27.74	4.35	32.09	54.00	-21.91	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

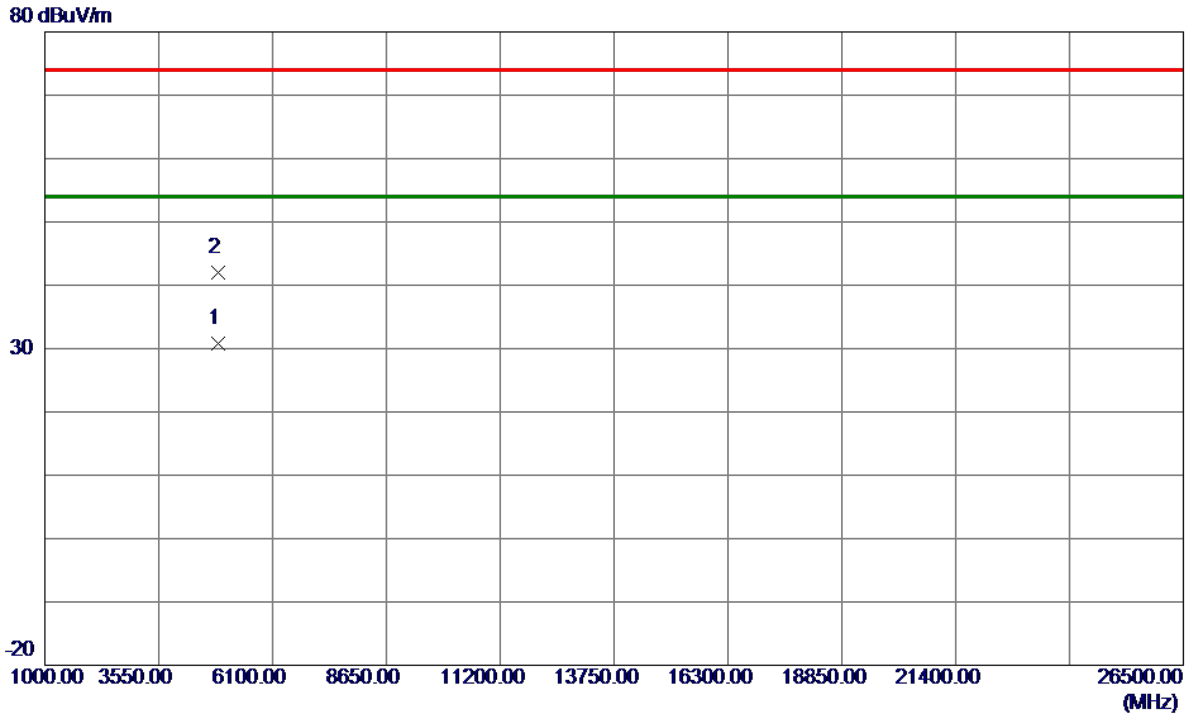


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2439.8000	89.17	7.02	96.19	54.00	42.19	AVG	No Limit
2	2440.6000	97.20	7.02	104.22	74.00	30.22	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

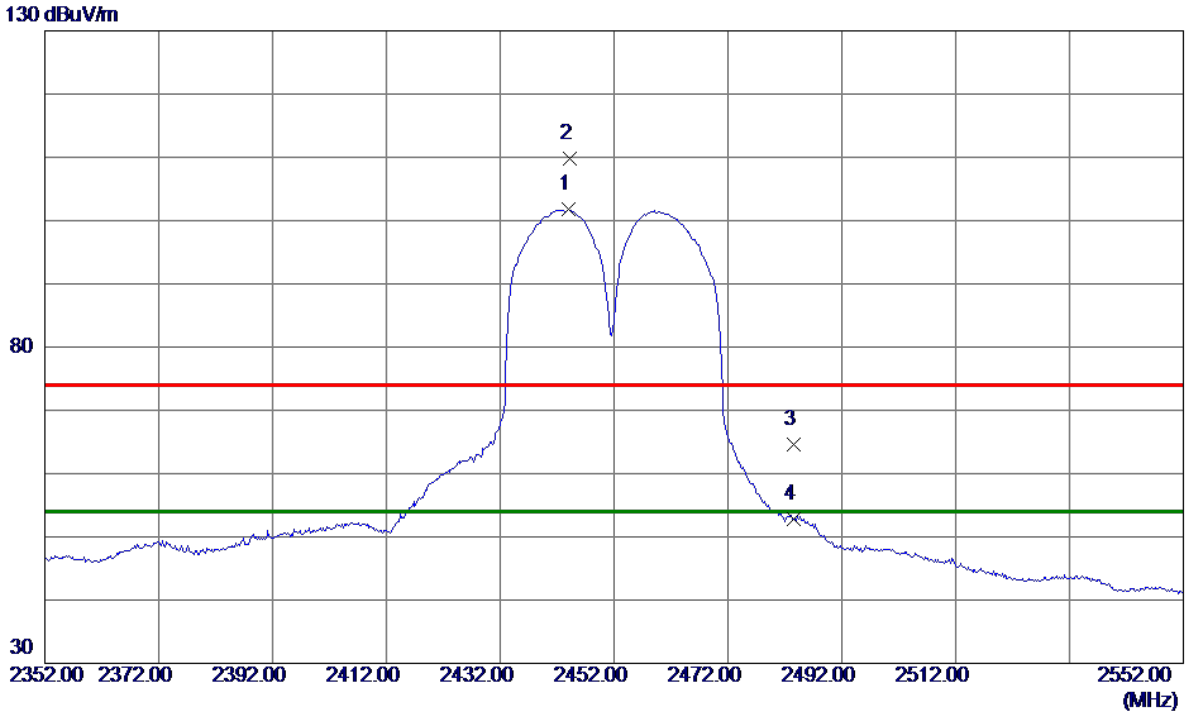


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0000	26.39	4.34	30.73	54.00	-23.27	AVG	
2	4874.8500	37.73	4.34	42.07	74.00	-31.93	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

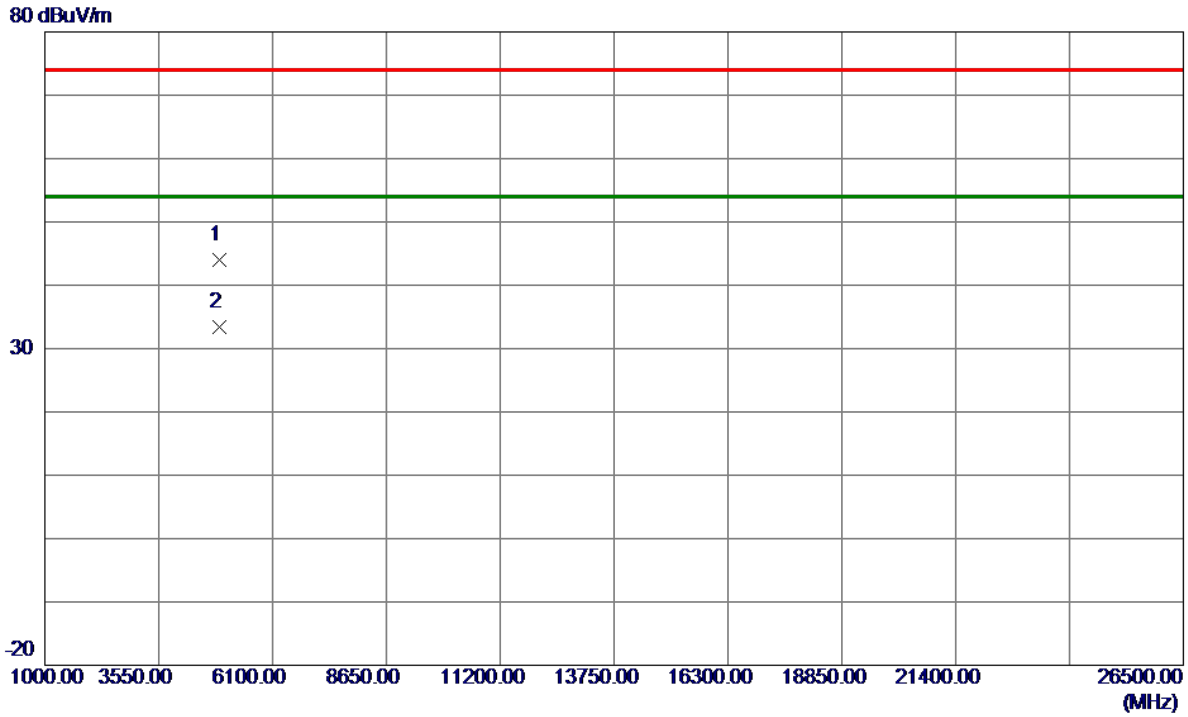


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2444.0000	94.76	7.02	101.78	54.00	47.78	AVG	No Limit
2	2444.2000	102.82	7.02	109.84	74.00	35.84	Peak	No Limit
3	2483.5000	57.50	7.03	64.53	74.00	-9.47	Peak	
4	2483.5000	45.76	7.03	52.79	54.00	-1.21	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Vertical

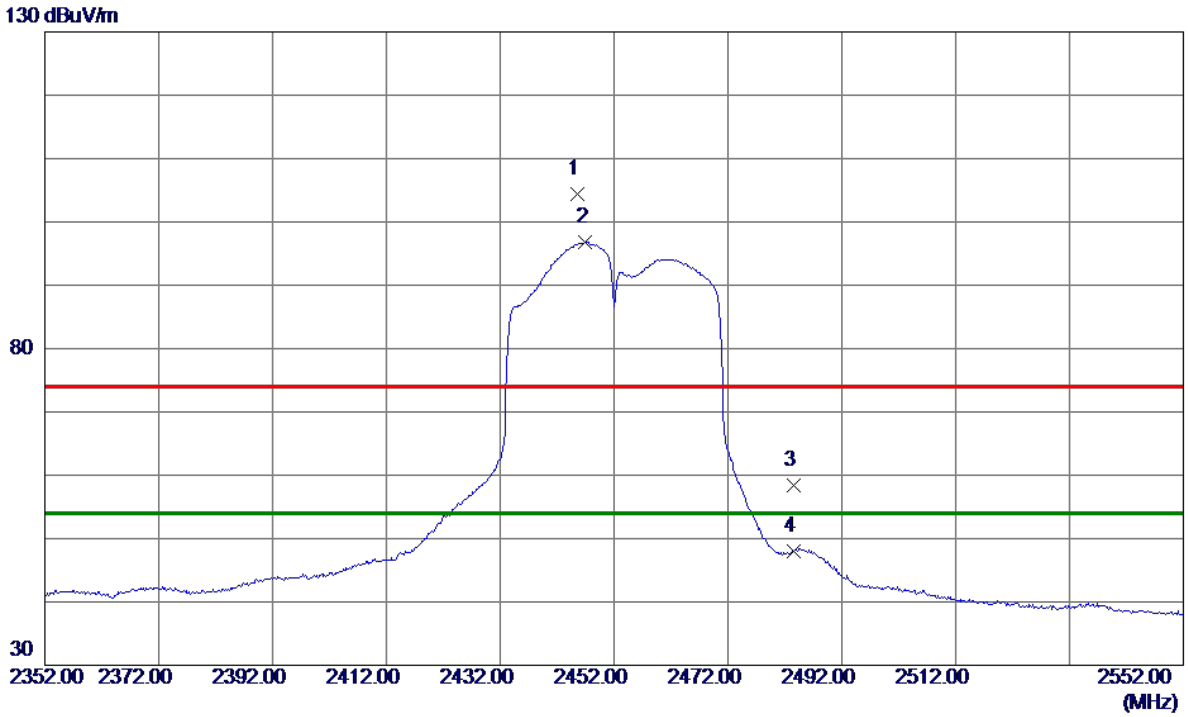


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4900.7500	39.69	4.39	44.08	74.00	-29.92	Peak	
2 *	4911.1500	28.91	4.41	33.32	54.00	-20.68	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal

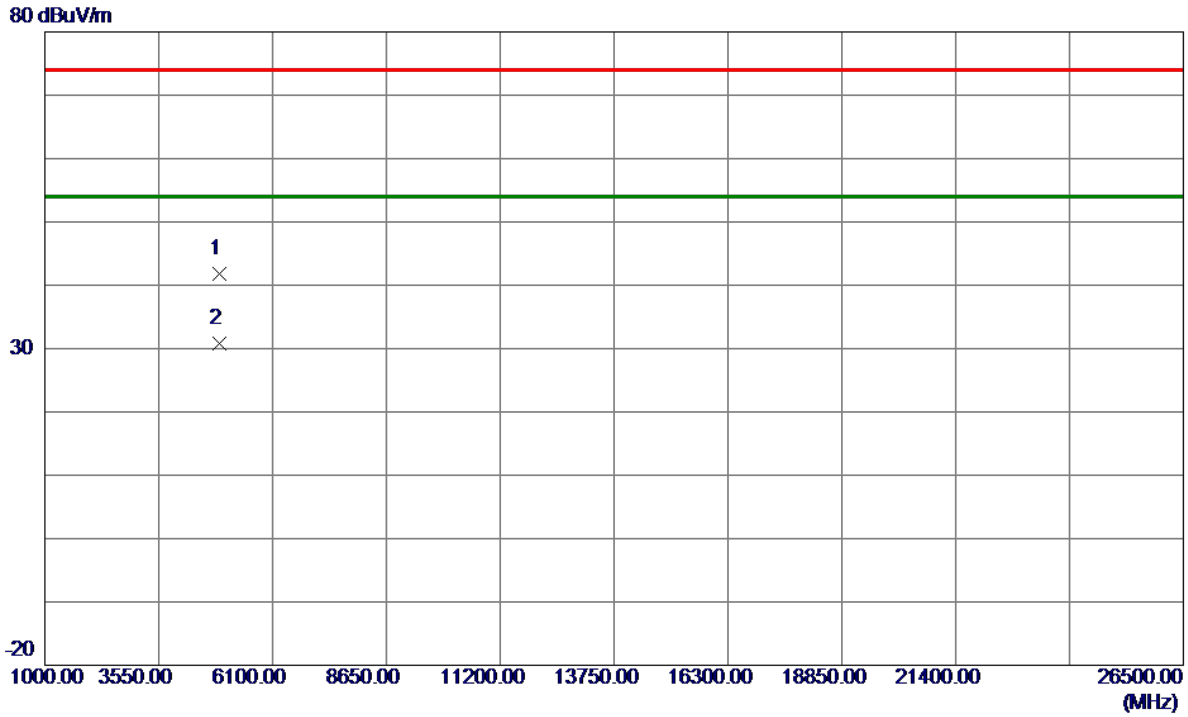


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2445.6000	97.31	7.02	104.33	74.00	30.33	Peak	No Limit
2 *	2447.0000	89.76	7.02	96.78	54.00	42.78	AVG	No Limit
3	2483.5000	51.28	7.03	58.31	74.00	-15.69	Peak	
4	2483.5000	41.04	7.03	48.07	54.00	-5.93	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4910.7500	37.40	4.41	41.81	74.00	-32.19	Peak	
2 *	4914.0500	26.45	4.42	30.87	54.00	-23.13	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

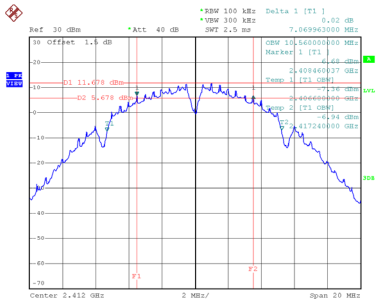
APPENDIX E - BANDWIDTH

Non-Beamforming

Test Mode	TX B Mode

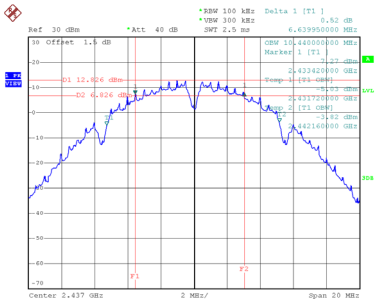
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	7.07	10.56	500	Complies
06	2437	6.64	10.44	500	Complies
11	2462	7.03	10.60	500	Complies

CH01



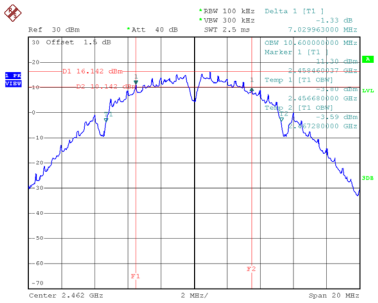
Date: 1.FEB.2019 15:54:45

CH06



Date: 1.FEB.2019 15:57:15

CH11

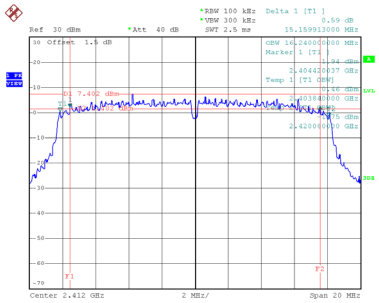


Date: 1.FEB.2019 15:59:17

Test Mode	TX G Mode

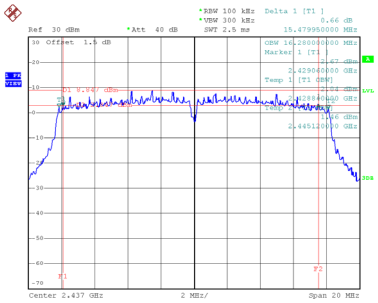
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.16	16.24	500	Complies
06	2437	15.48	16.28	500	Complies
11	2462	15.13	16.24	500	Complies

CH01



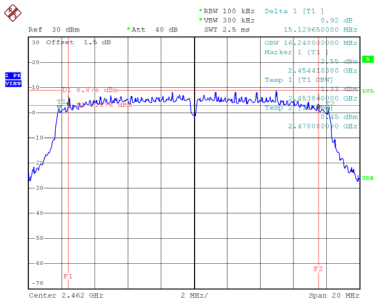
Date: 1.FEB.2019 16:03:03

CH06



Date: 1.FEB.2019 16:07:48

CH11

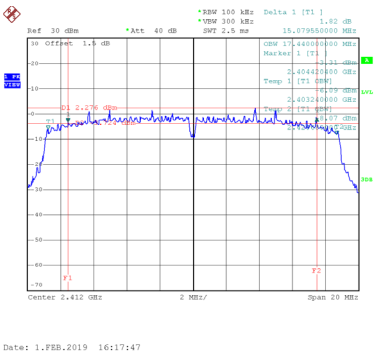


Date: 1.FEB.2019 16:12:21

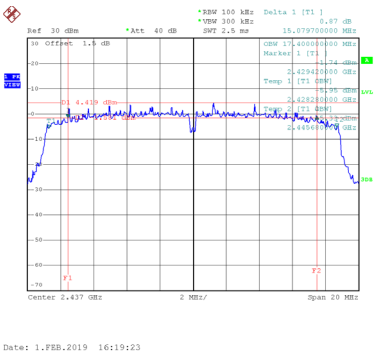
Test Mode	TX N (HT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.08	17.44	500	Complies
06	2437	15.08	17.40	500	Complies
11	2462	15.31	17.40	500	Complies

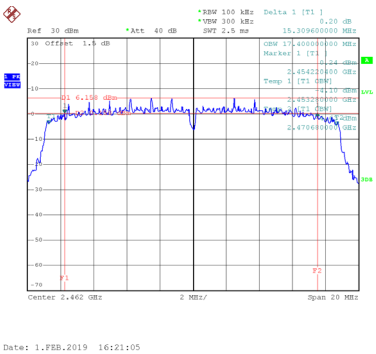
CH01



CH06



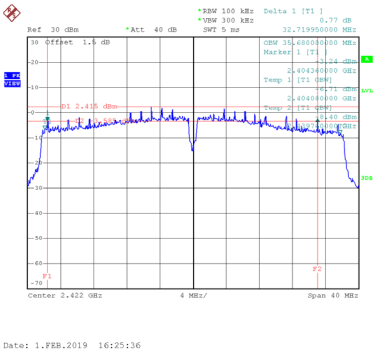
CH11



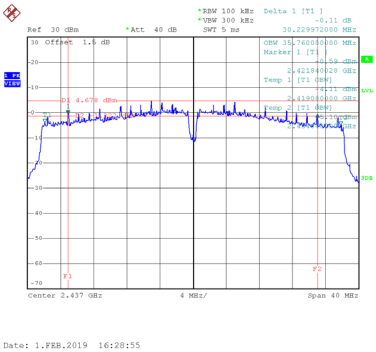
Test Mode	TX N (HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	32.72	35.68	500	Complies
06	2437	30.23	35.76	500	Complies
09	2452	31.36	35.76	500	Complies

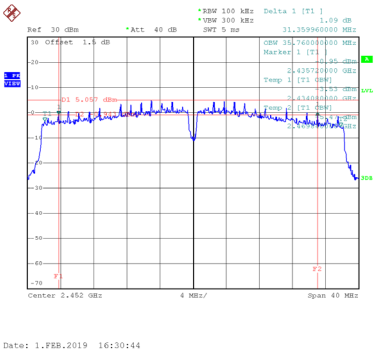
CH03



CH06



CH09

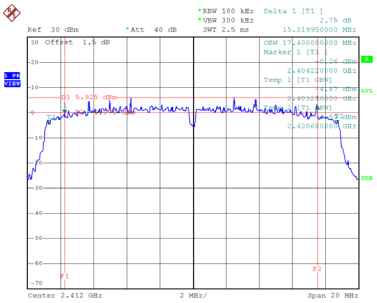


Beamforming

Test Mode	TX N (HT20) Mode

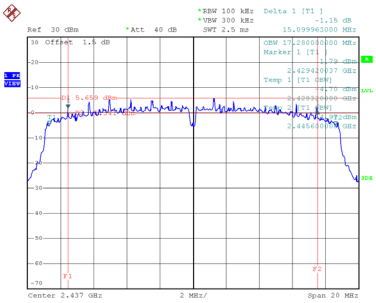
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.32	17.40	500	Complies
06	2437	15.10	17.28	500	Complies
11	2462	15.75	17.40	500	Complies

CH01



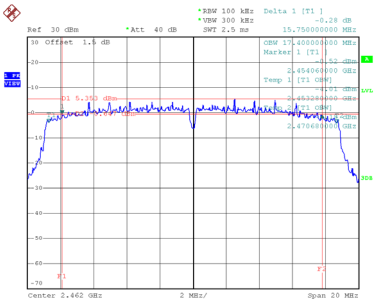
Date: 16.FEB.2019 11:34:42

CH06



Date: 16.FEB.2019 11:37:09

CH11

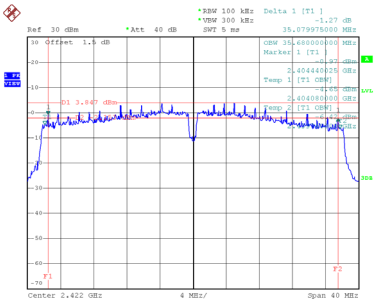


Date: 16.FEB.2019 11:39:31

Test Mode	TX N (HT40) Mode

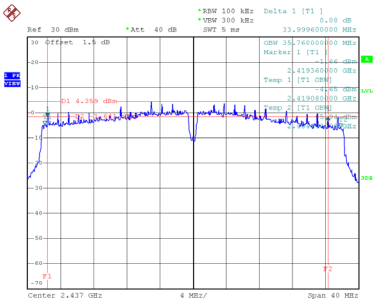
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.08	35.68	500	Complies
06	2437	34.00	35.76	500	Complies
09	2452	32.63	35.68	500	Complies

CH03



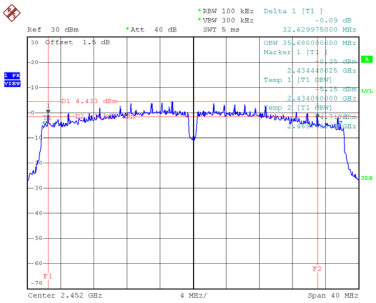
Date: 16.FEB.2019 11:47:32

CH06



Date: 16.FEB.2019 11:51:31

CH09



Date: 16.FEB.2019 11:53:13

APPENDIX F - MAXIMUM OUTPUT POWER

Non-Beamforming

Test Mode	TX B Mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.81	0.1910	30.00	1.0000	Complies
06	2437	23.82	0.2410	30.00	1.0000	Complies
11	2462	27.15	0.5188	30.00	1.0000	Complies

Test Mode	TX G Mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.16	0.5200	30.00	1.0000	Complies
06	2437	27.06	0.5082	30.00	1.0000	Complies
11	2462	27.12	0.5152	30.00	1.0000	Complies

Test Mode	TX N (HT20)_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.15	0.1303	30.00	1.0000	Complies
06	2437	23.62	0.2301	30.00	1.0000	Complies
11	2462	23.65	0.2317	30.00	1.0000	Complies

Test Mode	TX N (HT20)_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.48	0.1406	30.00	1.0000	Complies
06	2437	23.74	0.2366	30.00	1.0000	Complies
11	2462	23.95	0.2483	30.00	1.0000	Complies

Test Mode	TX N (HT20)_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.33	0.2709	30.00	1.0000	Complies
06	2437	26.69	0.4667	30.00	1.0000	Complies
11	2462	26.81	0.4801	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.18	0.2080	30.00	1.0000	Complies
06	2437	23.22	0.2099	30.00	1.0000	Complies
09	2452	23.82	0.2410	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.14	0.2594	30.00	1.0000	Complies
06	2437	23.75	0.2371	30.00	1.0000	Complies
09	2452	23.61	0.2296	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	26.70	0.4674	30.00	1.0000	Complies
06	2437	26.50	0.4470	30.00	1.0000	Complies
09	2452	26.73	0.4706	30.00	1.0000	Complies

Beamforming

Test Mode	TX N (HT20)_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.15	0.1303	30.00	1.0000	Complies
06	2437	23.52	0.2249	30.00	1.0000	Complies
11	2462	23.45	0.2213	30.00	1.0000	Complies

Test Mode	TX N (HT20)_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.38	0.1374	30.00	1.0000	Complies
06	2437	23.54	0.2259	30.00	1.0000	Complies
11	2462	23.65	0.2317	30.00	1.0000	Complies

Test Mode	TX N (HT20)_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.28	0.2677	30.00	1.0000	Complies
06	2437	26.54	0.4508	30.00	1.0000	Complies
11	2462	26.56	0.4530	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	23.12	0.2051	30.00	1.0000	Complies
06	2437	23.12	0.2051	30.00	1.0000	Complies
09	2452	23.52	0.2249	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.04	0.2535	30.00	1.0000	Complies
06	2437	23.55	0.2265	30.00	1.0000	Complies
09	2452	23.47	0.2223	30.00	1.0000	Complies

Test Mode	TX N (HT40)_Total

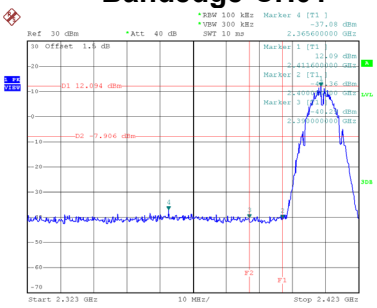
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	26.61	0.4586	30.00	1.0000	Complies
06	2437	26.35	0.4316	30.00	1.0000	Complies
09	2452	26.51	0.4472	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

Non-Beamforming

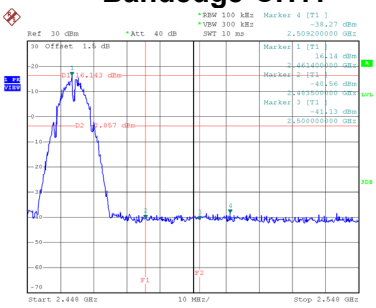
Test Mode	TX B Mode

Bandedge-CH01



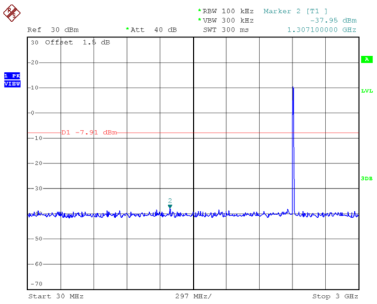
Date: 1.FEB.2019 15:54:53

Bandedge-CH11

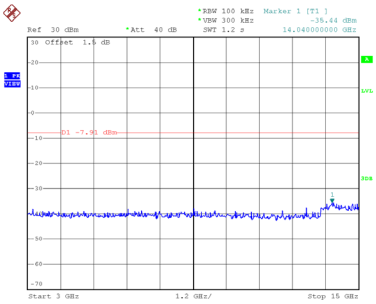


Date: 1.FEB.2019 15:59:25

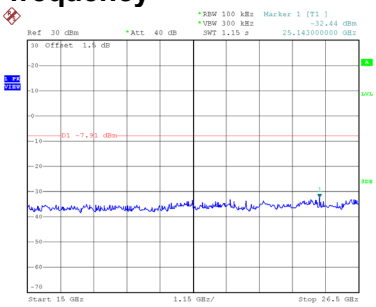
CH01 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 15:55:07

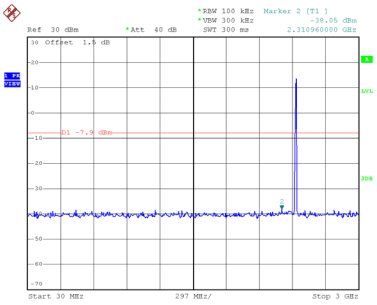


Date: 1.FEB.2019 15:55:15

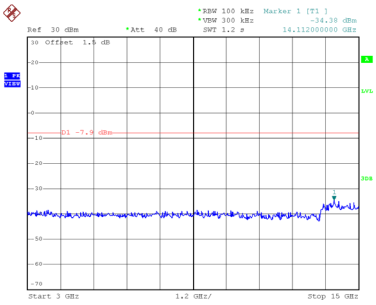


Date: 1.FEB.2019 15:55:24

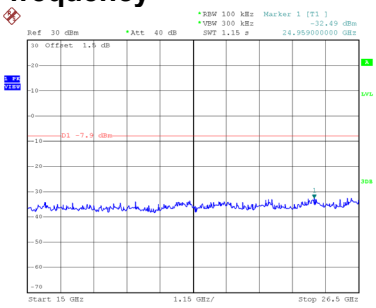
CH06 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 15:57:37

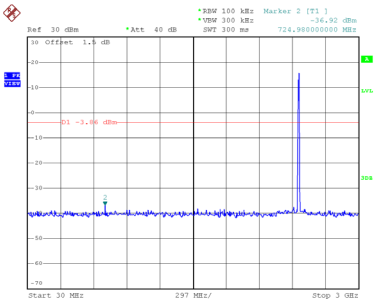


Date: 1.FEB.2019 15:57:46

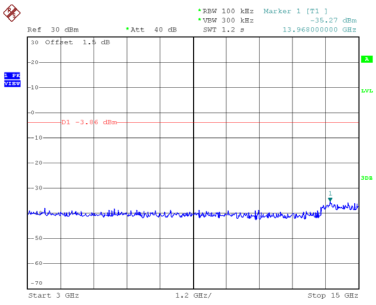


Date: 1.FEB.2019 15:57:54

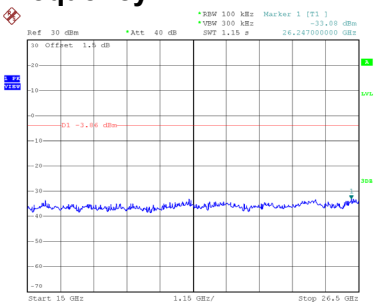
CH11 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 15:59:39



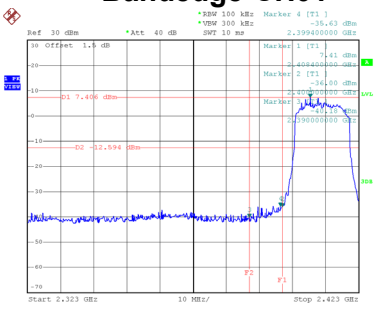
Date: 1.FEB.2019 15:59:48



Date: 1.FEB.2019 15:59:56

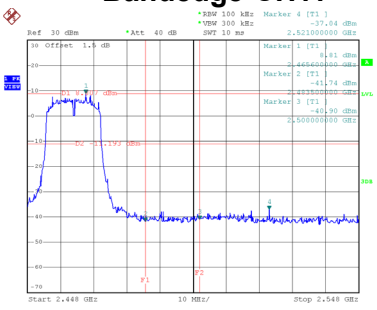
Test Mode	TX G Mode

Bandedge-CH01



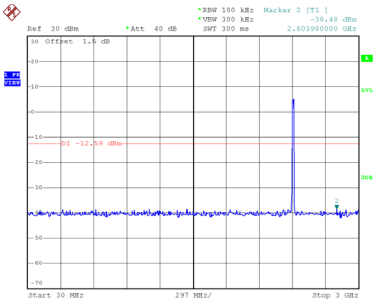
Date: 1.FEB.2019 16:03:11

Bandedge-CH11

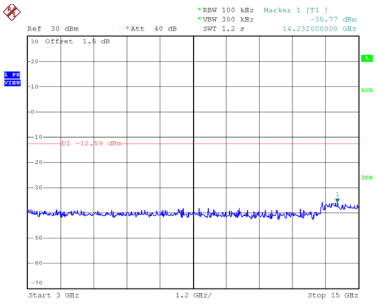


Date: 1.FEB.2019 16:12:29

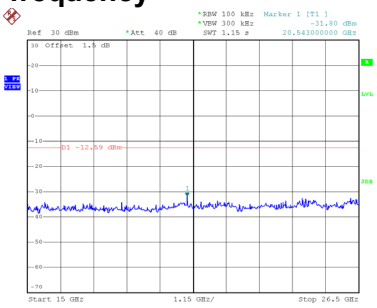
CH01 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 16:03:25

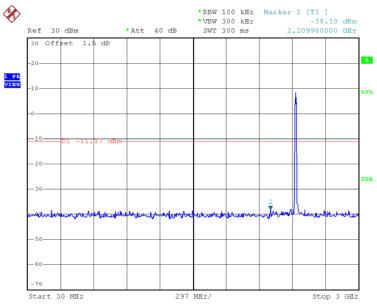


Date: 1.FEB.2019 16:03:33

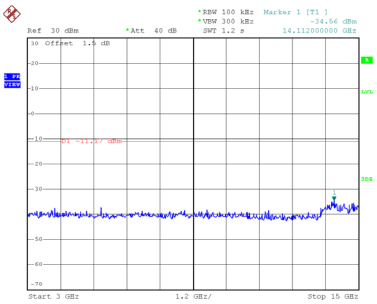


Date: 1.FEB.2019 16:03:42

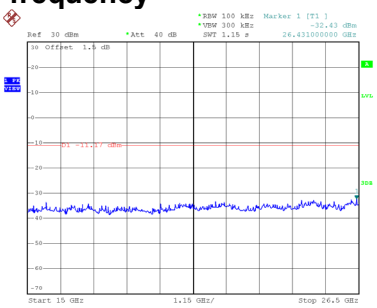
CH06 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 16:08:10

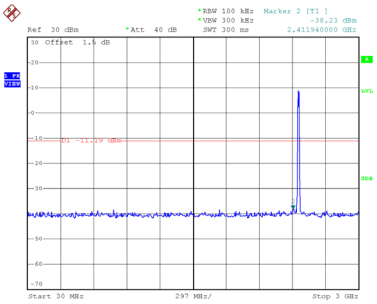


Date: 1.FEB.2019 16:08:19

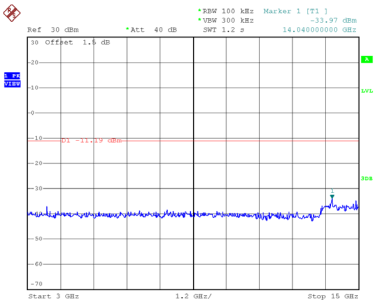


Date: 1.FEB.2019 16:08:27

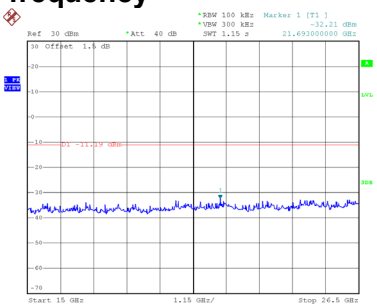
CH11 – 10th Harmonic of the fundamental frequency



Date: 1.FEB.2019 16:12:43



Date: 1.FEB.2019 16:12:52



Date: 1.FEB.2019 16:13:00