FCC Radio Test Report

FCC ID: TE7WA1201V2

This report concerns: Original Grant

Project No.	:	1911C182
Equipment	:	AC1200 Wireless Gigabit Access Point
Brand Name	:	tp-link
Test Model	:	TL-WA1201
Series Model	:	N/A
Applicant	:	TP-Link Technologies Co., Ltd.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	:	TP-Link Technologies Co., Ltd.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Receipt	:	Dec. 09, 2020
Date of Test	:	Dec. 09, 2020 ~ Jan. 22, 2020
Issued Date	:	Feb. 17, 2020
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2019112826 for conducted, DG2019112827 for radiated
Standard(s)	:	FCC Part15, Subpart C (15.247) ANSI C63.10-2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Welly Zhou

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Certificate #5123.02

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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 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.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Feb. 17, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205(a) 15.209(a)	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(2)

Note:

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

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 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

1.2 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	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-Above 1000 MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Bandwidth	25°C	56%	AC 120V/60Hz	Jonas Chen
Maximum Output Power	25°C	56%	AC 120V/60Hz	Damon Deng
Conducted Spurious Emissions	25°C	56%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	25°C	56%	AC 120V/60Hz	Jonas Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wireless Gigabit Access Point
Brand Name	tp-link
Test Model	TL-WA1201
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC/DC adapter. Model: T120150-2B1
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V⎓ 1.5A
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	IEEE 802.11b: 26.33 dBm (0.4295 W) IEEE 802.11g: 23.67 dBm (0.2328 W) IEEE 802.11n (HT20): 24.00 dBm (0.2512 W) IEEE 802.11n (HT40): 18.75 dBm (0.0750 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 IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)							
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	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-LINK	3101502315	Dipole	Weld	4.40
2	TP-LINK	3101502316	Dipole	Weld	5.32

Note: This EUT supports CDD, and antenna gains are not equal,
so Directional gain=10log $[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$=7.88dBi,
So the output power limit is 30-(7.88-6)=28.12, the power spectral density limit is 8-(7.88-6)=6.12.

4. Table for Antenna Configuration:

Operating Mode / TX Mode	2TX
802.11b	V (Ant. 1 + Ant. 2)
802.11g	V (Ant. 1 + Ant. 2)
802.11n(20 MHz)	V (Ant. 1 + Ant. 2)
802.11n(40 MHz)	V (Ant. 1 + Ant. 2)

2.2 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 B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 8	TX N-40 MHz Mode Channel 03/04/06/08/09
Mode 9	TX B Mode Channel 06

Following mode(s) was (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 9	TX B Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 9	TX B Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode:	Description
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N-20 MHz Mode Channel 01/02/06/10/11
Mode 8	TX N-40 MHz Mode Channel 03/04/06/08/09

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) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.

(3) For radiated emission below 1 GHz test, the IEEE 802.11b Channel 06 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.

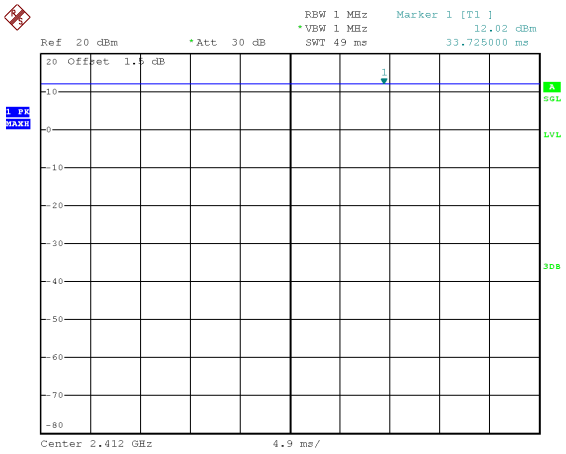
2.3 PARAMETERS OF TEST SOFTWARE

Test Software	CART		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	65	94	66
IEEE 802.11g	75	90	72
IEEE 802.11n (HT20)	75	91	72
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	70	76	70

2.4 DUTY CYCLE

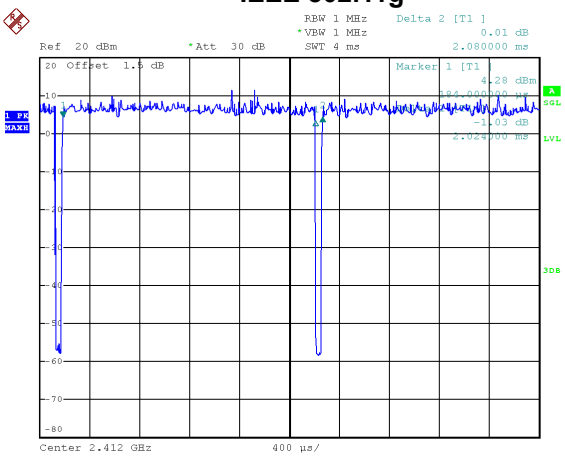
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.

IEEE 802.11b



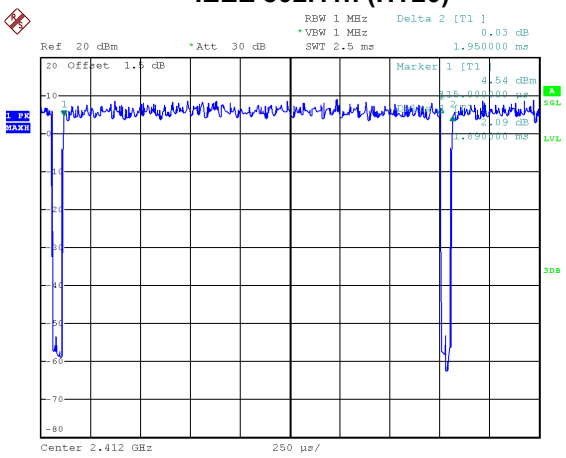
Duty cycle = 49.000 ms / 49.000 ms = 100.00%
Duty Factor = 10 log(1/Duty cycle) = 0.00

IEEE 802.11g



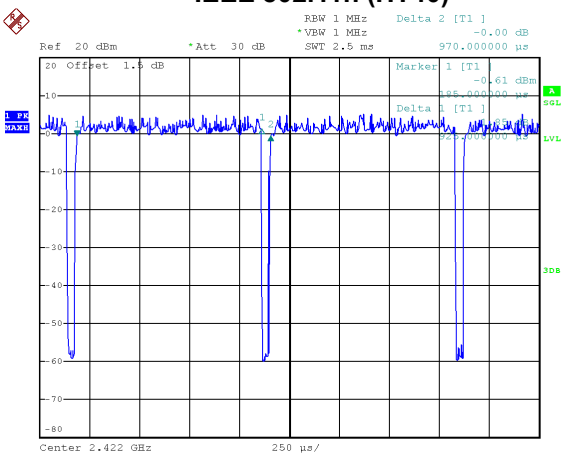
Duty cycle = 2.024 ms / 2.080 ms = 97.31%
Duty Factor = 10 log(1/Duty cycle) = 0.12

IEEE 802.11n (HT20)



Duty cycle = 1.890 ms / 1.950 ms = 96.92%
Duty Factor = 10 log(1/Duty cycle) = 0.14

IEEE 802.11n (HT40)

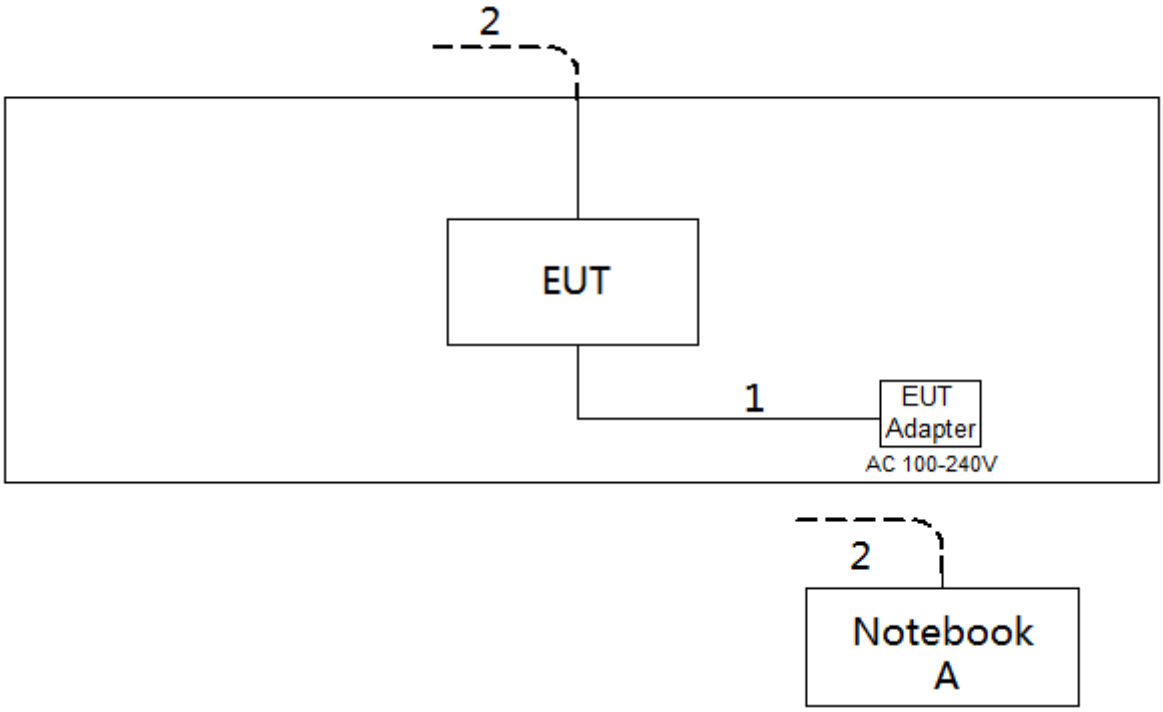


Duty cycle = 0.925 ms / 0.970 ms = 95.36%
Duty Factor = 10 log(1/Duty cycle) = 0.21

NOTE:
For IEEE 802.11g and IEEE 802.11n (HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 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.

The following table is the setting of the receiver

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

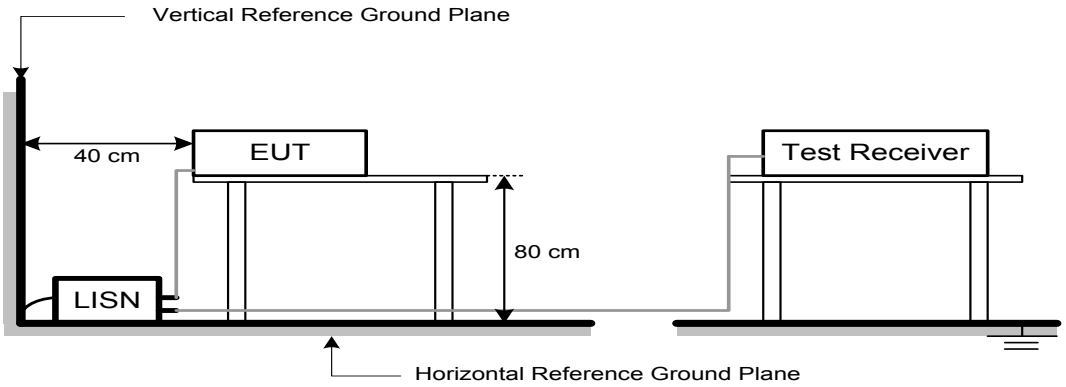
3.2 TEST PROCEDURE

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.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS TEST

4.1 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.

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

4.2 TEST PROCEDURE

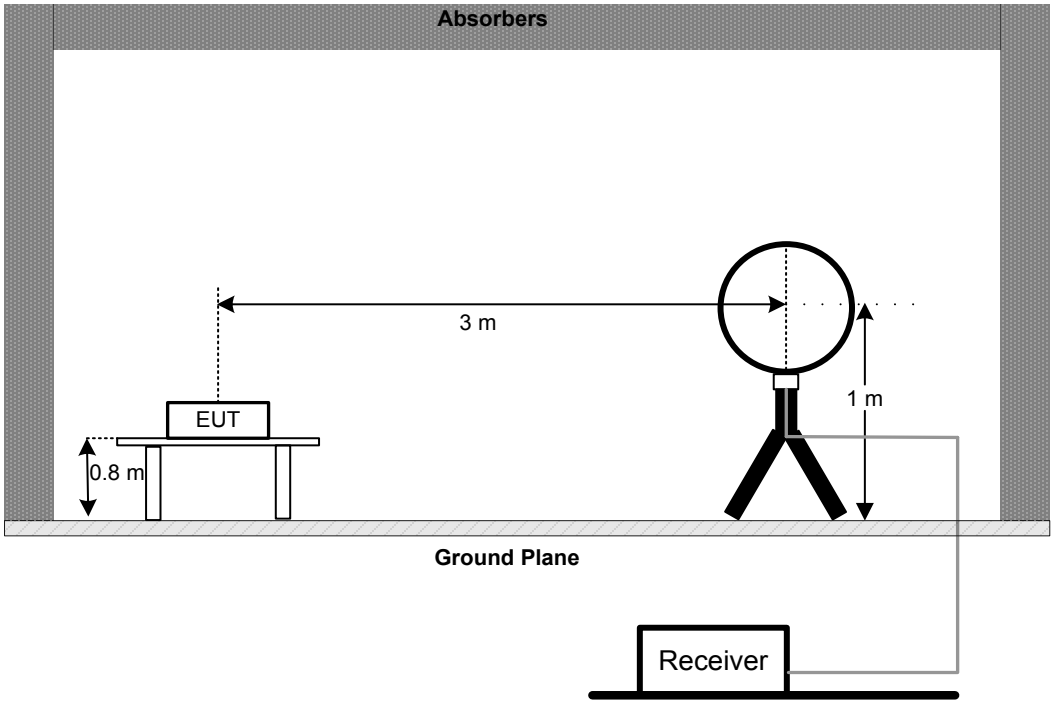
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance 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.

4.3 DEVIATION FROM TEST STANDARD

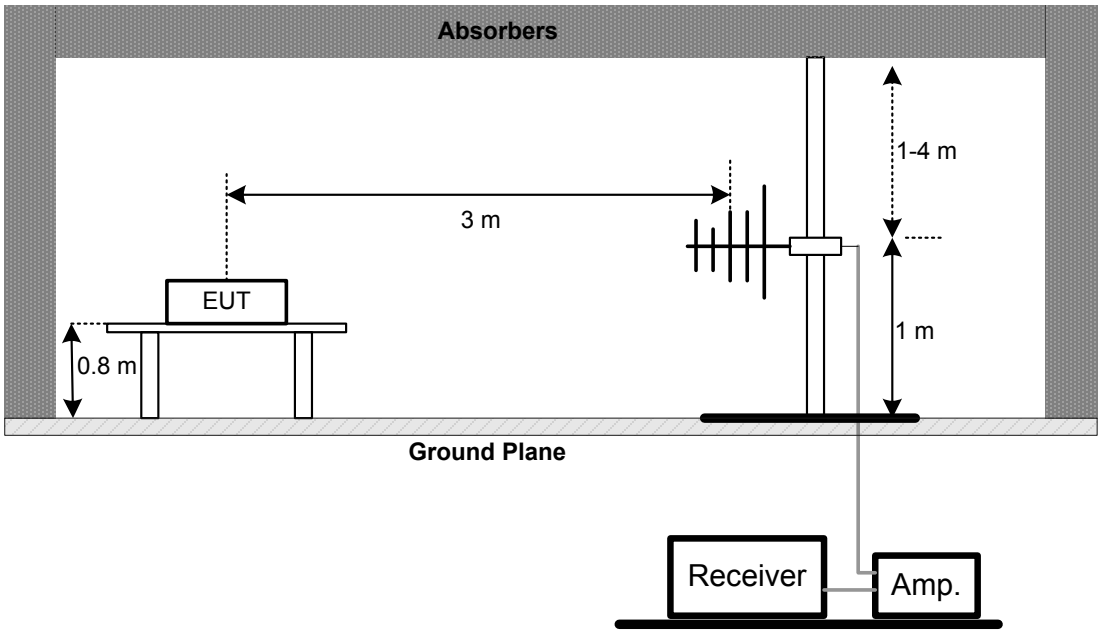
No deviation

4.4 TEST SETUP

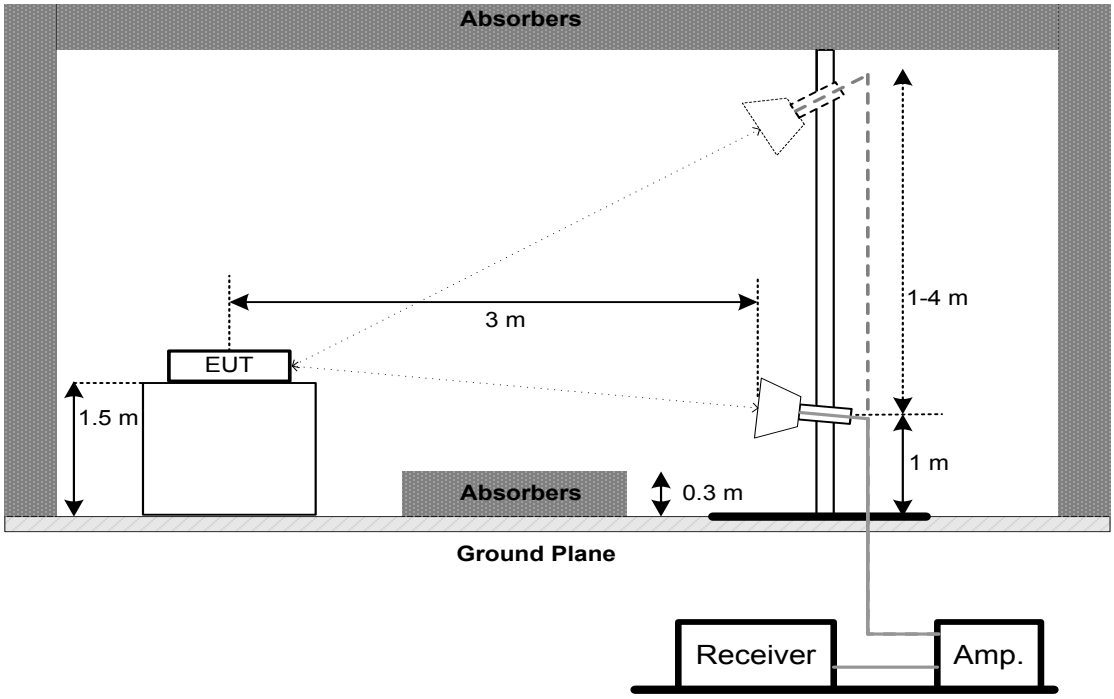
9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.

5. BANDWIDTH TEST

5.1 LIMIT

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

5.2 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:
For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.
For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.
For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.
c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

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

6.2 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 11.9.2.3.1 of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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 TEST RESULTS

Please refer to the APPENDIX F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

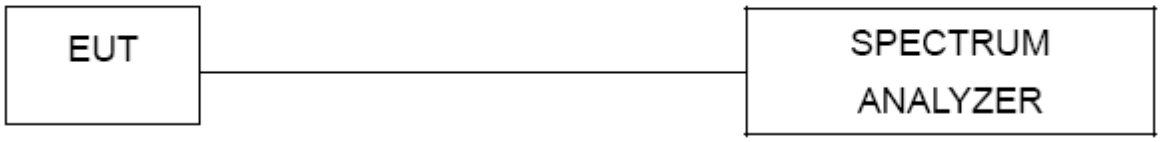
7.2 TEST PROCEDURE

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.

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 TEST RESULTS

Please refer to the APPENDIX G.

8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

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

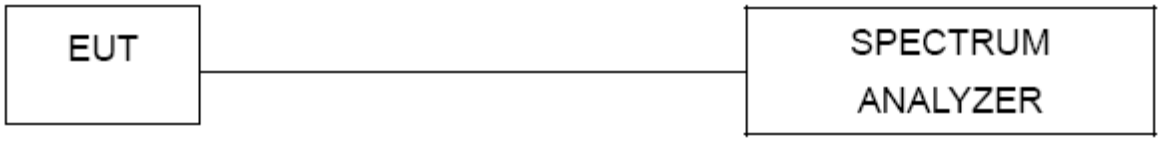
8.2 TEST PROCEDURE

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=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.

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 TEST RESULTS

Please refer to the APPENDIX H.

9. 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. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 12, 2020

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. 14, 2021
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
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. 09, 2020
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020
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. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

Remark: ”N/A” denotes no model name, serial no. or calibration specified.

“*” calibration period of equipment list is three year.

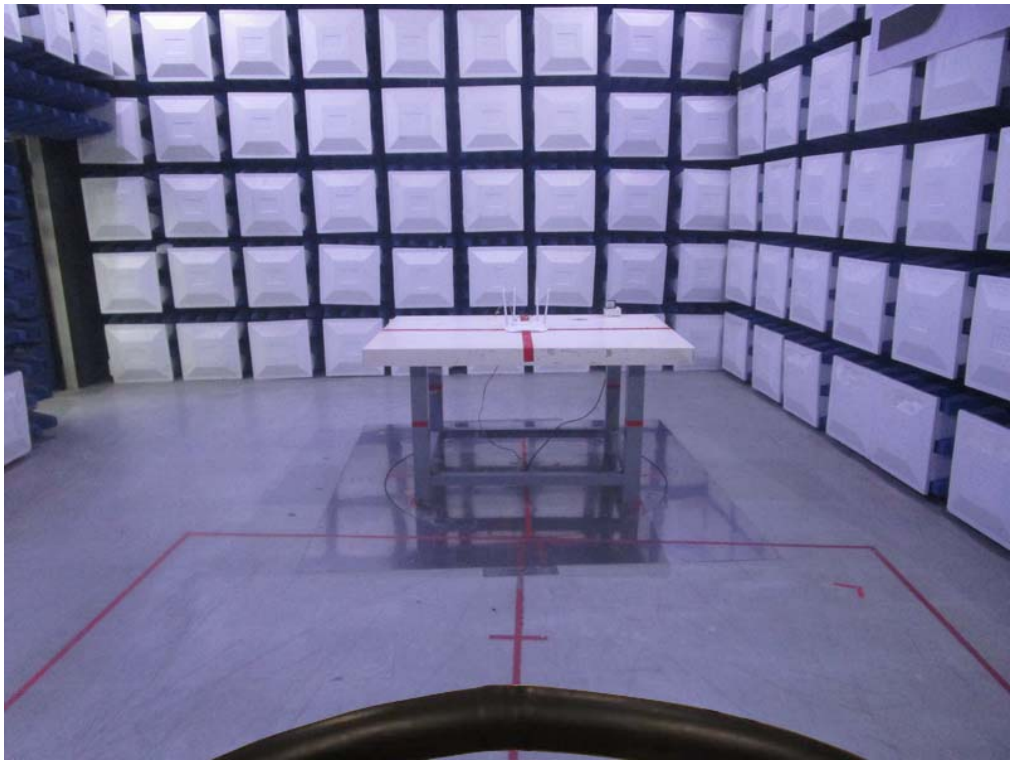
Except * item, all calibration period of equipment list is one year.

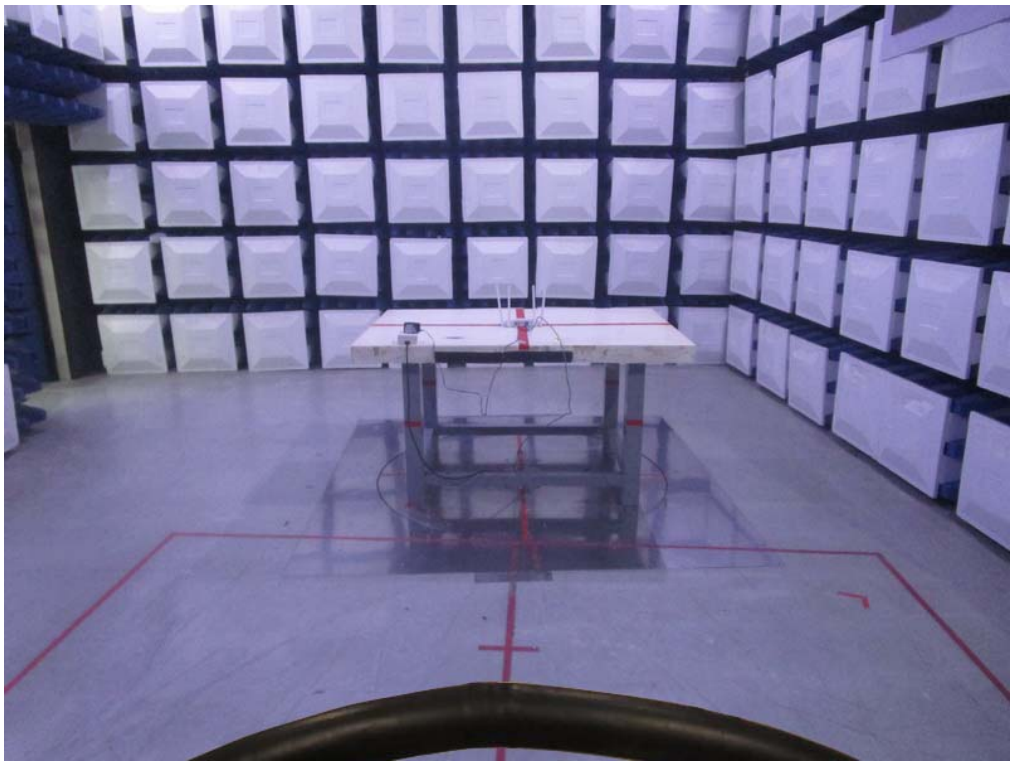
10. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos

Radiated Emissions Test Photos

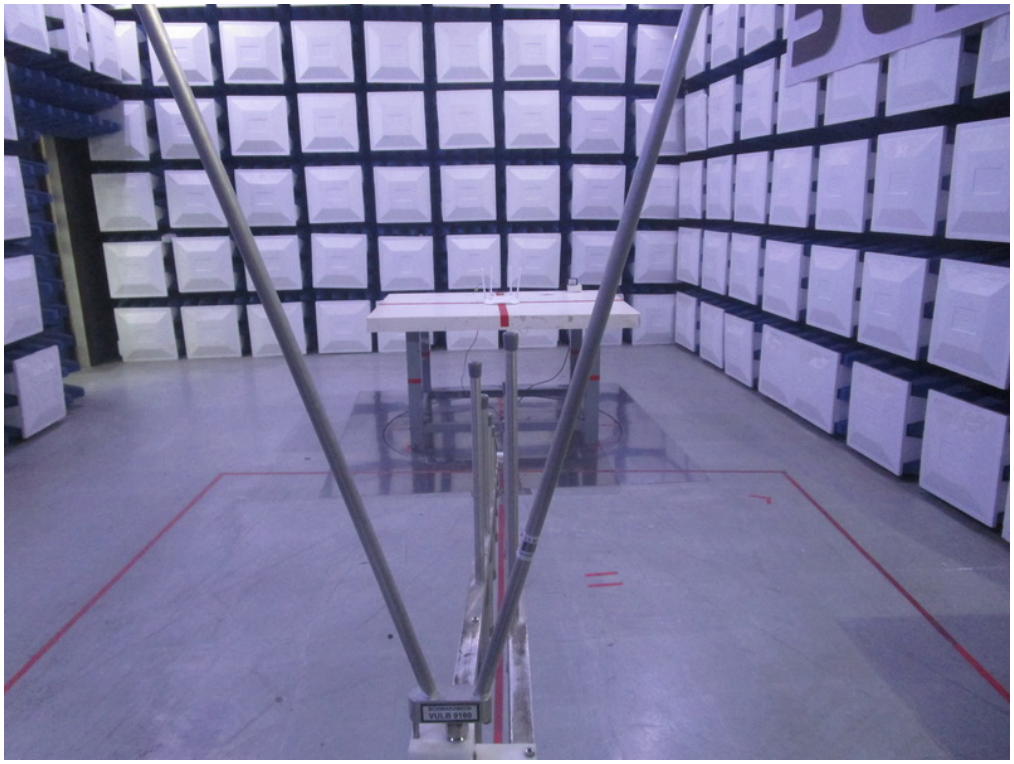
9 kHz to 30 MHz

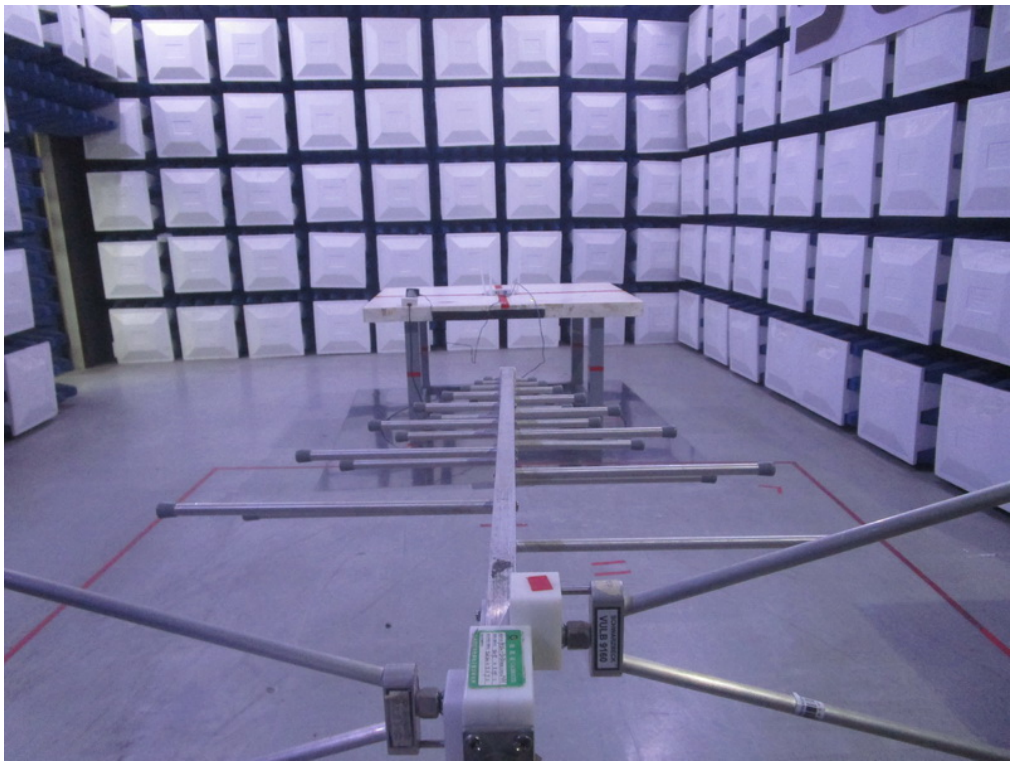




Radiated Emissions Test Photos

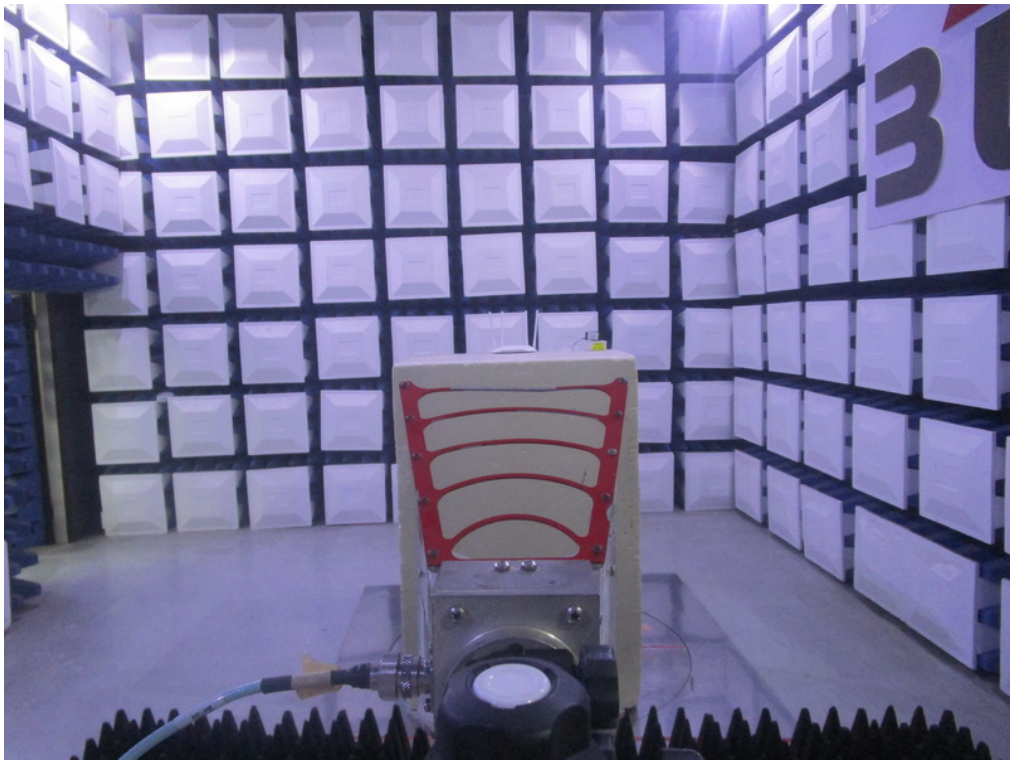
30 MHz to 1 GHz





Radiated Emissions Test Photos

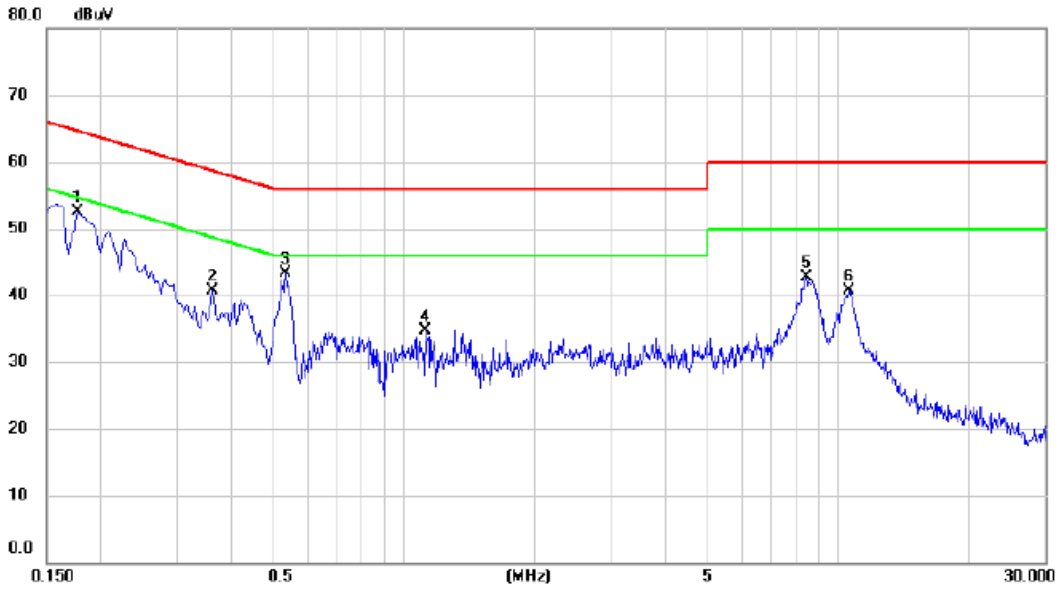
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX B Mode Channel 06

Line

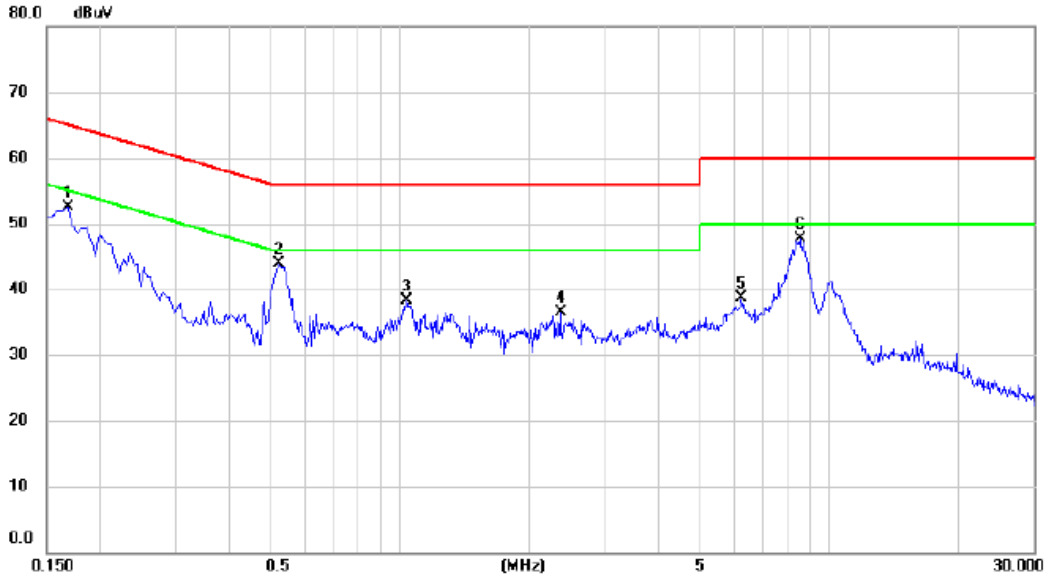


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1770	42.70	9.82	52.52	64.63	-12.11	peak	
2		0.3615	30.76	9.85	40.61	58.69	-18.08	peak	
3		0.5324	33.43	9.88	43.31	56.00	-12.69	peak	
4		1.1220	24.81	9.93	34.74	56.00	-21.26	peak	
5		8.4120	32.22	10.41	42.63	60.00	-17.37	peak	
6		10.5540	30.25	10.52	40.77	60.00	-19.23	peak	

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

Test Mode:	TX B Mode Channel 06

Neutral



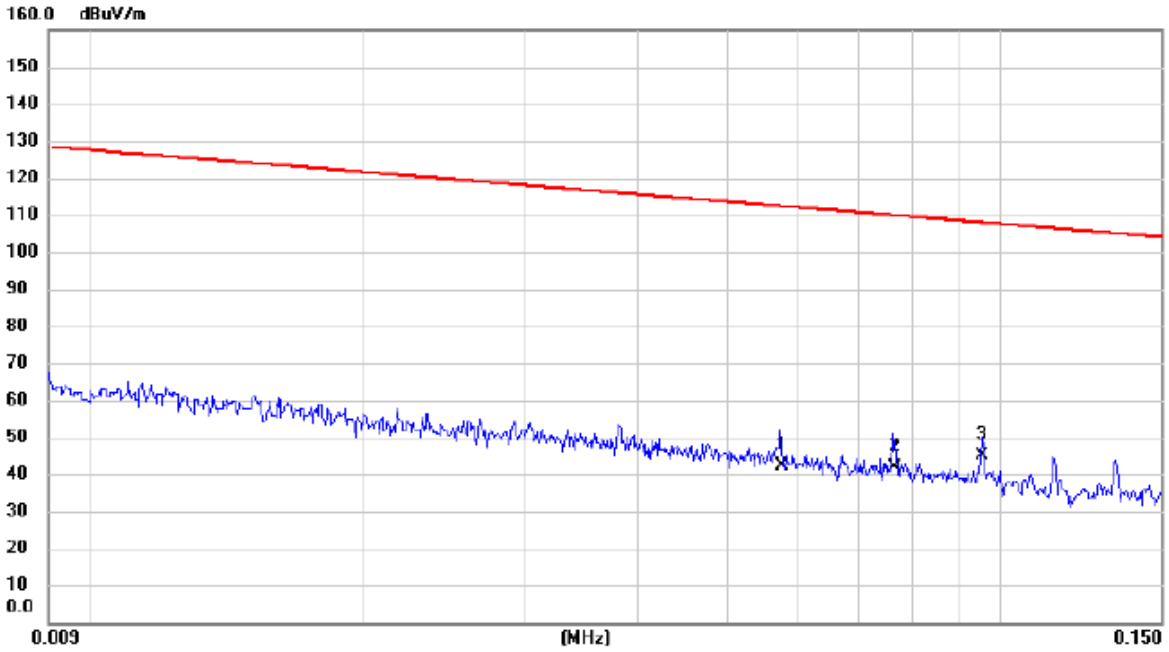
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	42.55	9.91	52.46	65.06	-12.60	peak	
2	*	0.5235	33.89	10.03	43.92	56.00	-12.08	peak	
3		1.0320	28.11	10.12	38.23	56.00	-17.77	peak	
4		2.3685	26.27	10.21	36.48	56.00	-19.52	peak	
5		6.2430	28.14	10.51	38.65	60.00	-21.35	peak	
6		8.5424	37.03	10.67	47.70	60.00	-12.30	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 06

Ant 0°

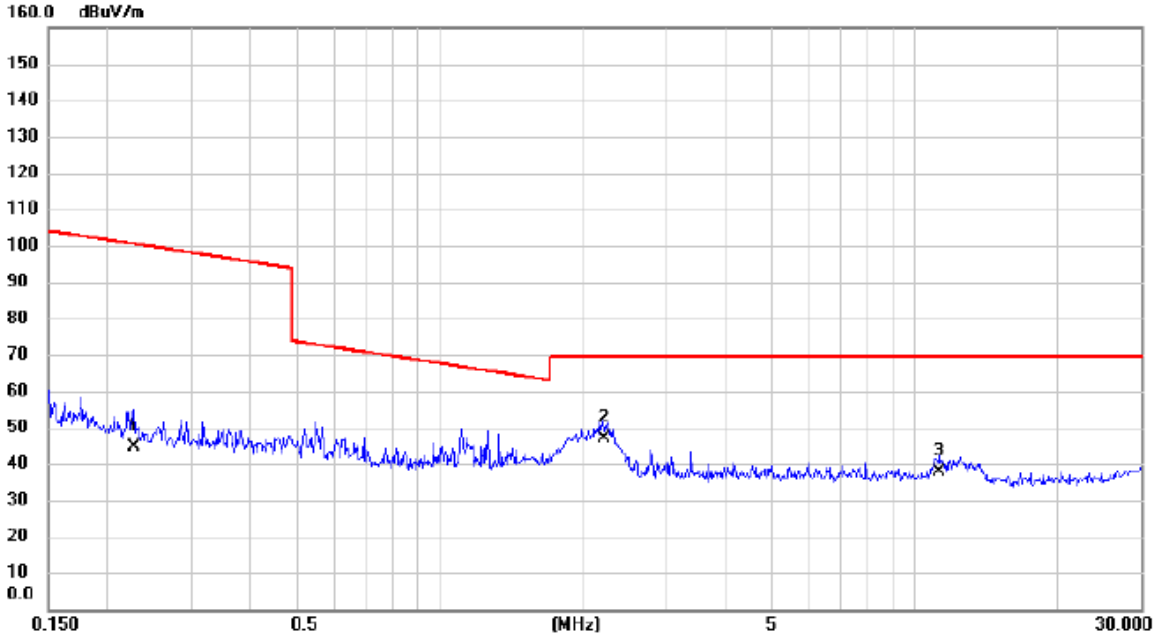


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0575	28.21	13.81	42.02	112.41	-70.39	AVG	
2		0.0764	28.13	13.53	41.66	109.94	-68.28	AVG	
3	*	0.0954	31.58	13.54	45.12	108.01	-62.89	QP	

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

Test Mode:	TX B Mode Channel 06

Ant 0°

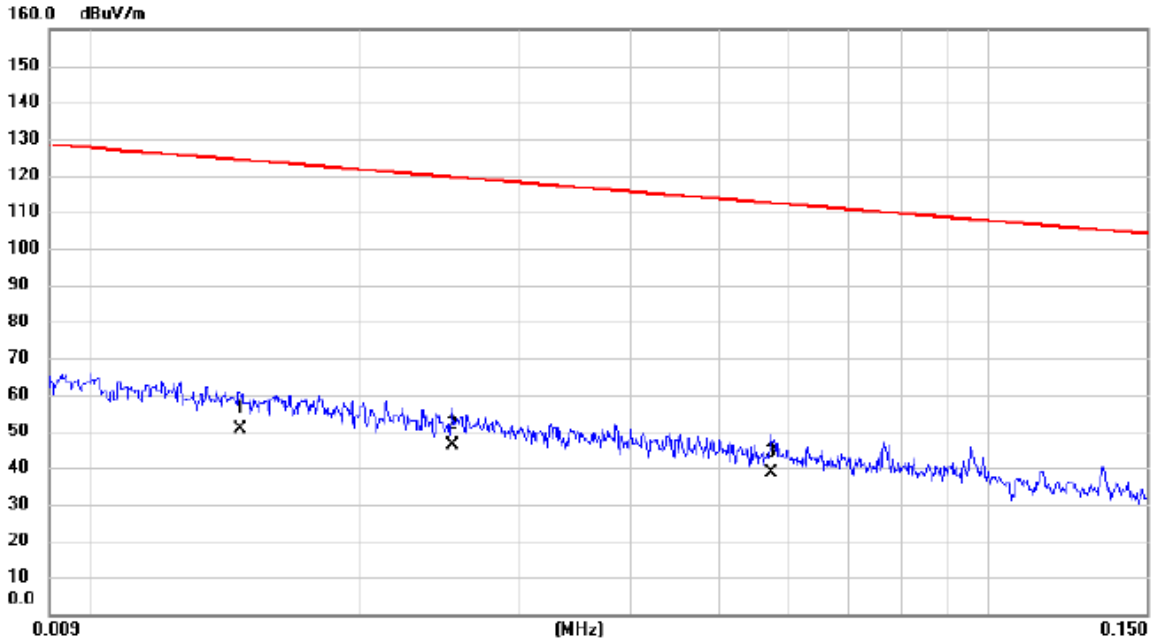


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2268	30.83	13.64	44.47	100.49	-56.02	AVG	
2	*	2.2132	35.18	11.69	46.87	69.54	-22.67	QP	
3		11.3170	26.17	11.61	37.78	69.54	-31.76	QP	

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

Test Mode:	TX B Mode Channel 06

Ant 90°

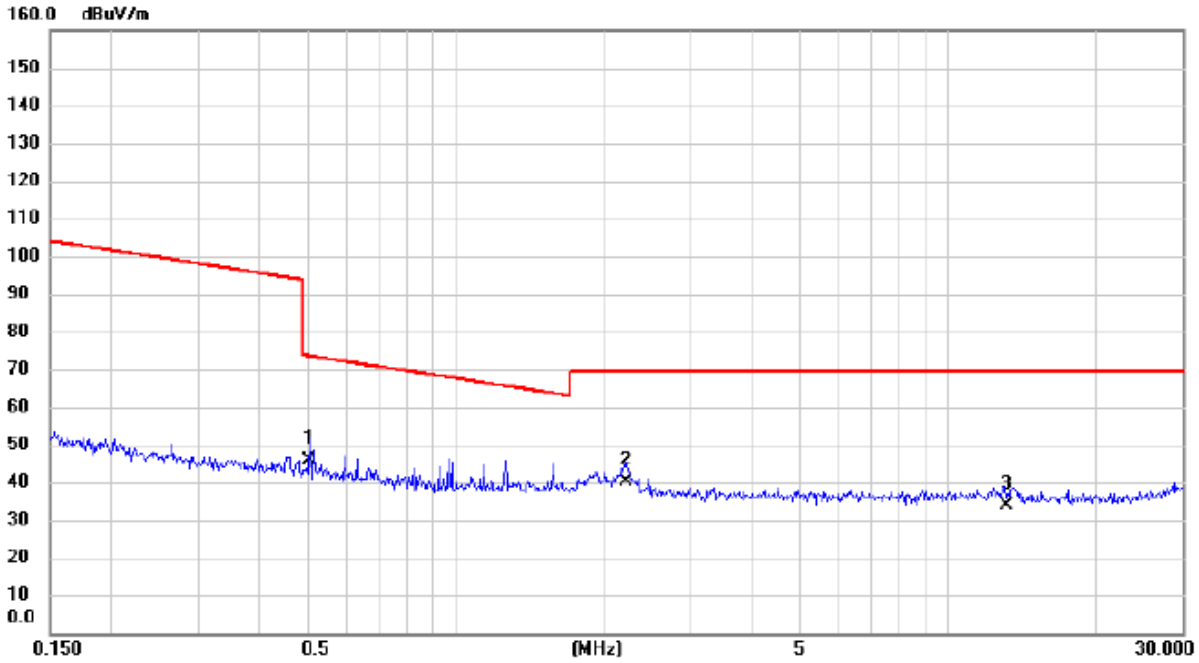


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0147	35.05	15.41	50.46	124.26	-73.80	AVG	
2	*	0.0253	32.36	13.84	46.20	119.54	-73.34	AVG	
3		0.0573	24.83	13.81	38.64	112.44	-73.80	AVG	

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

Test Mode:	TX B Mode Channel 06

Ant 90°



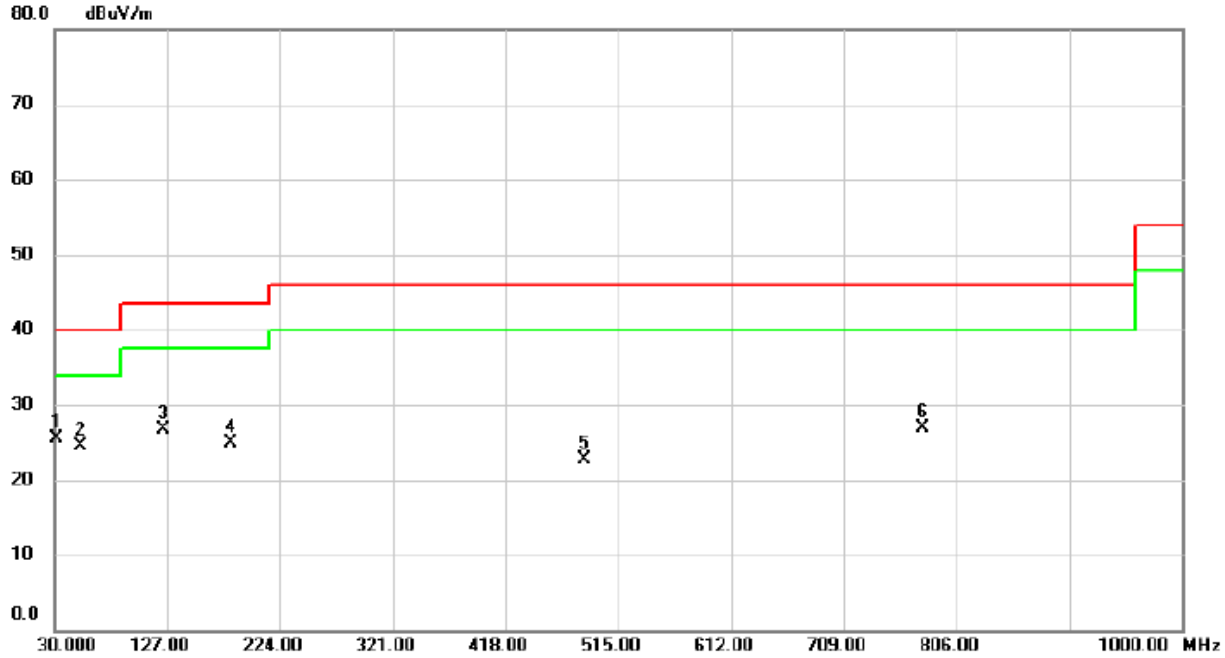
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.5047	32.93	13.05	45.98	73.54	-27.56	QP	
2		2.2250	28.72	11.68	40.40	69.54	-29.14	QP	
3		13.1270	22.32	11.60	33.92	69.54	-35.62	QP	

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 06

Vertical

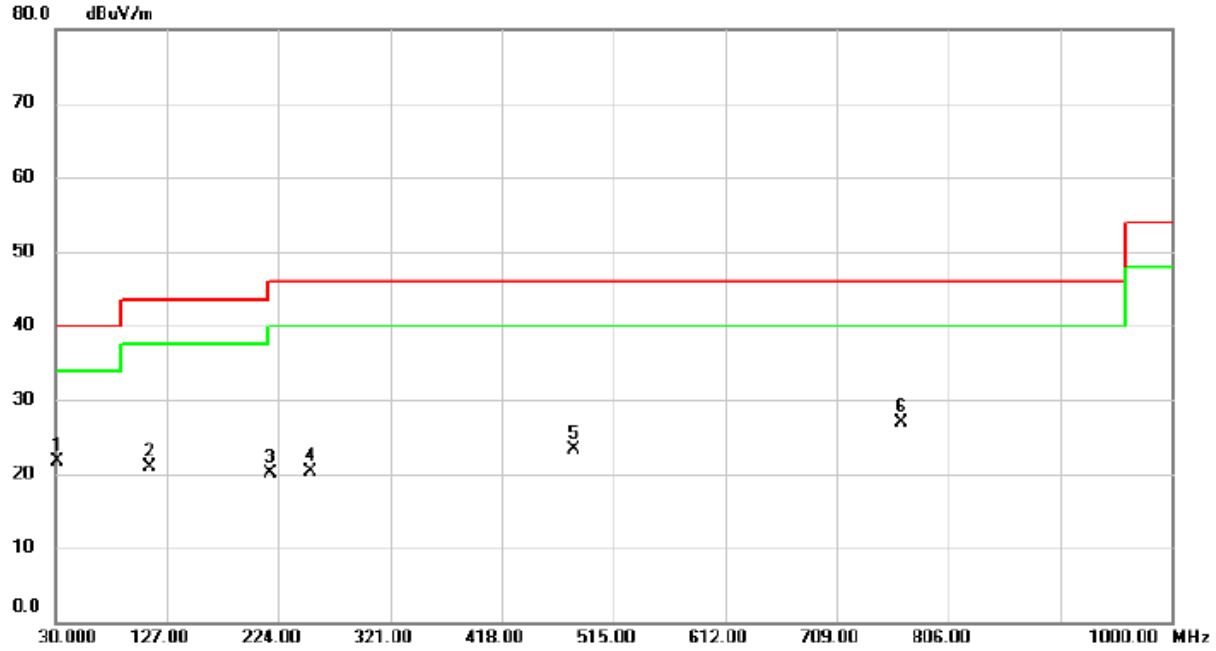


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	31.940	40.33	-14.81	25.52	40.00	-14.48	peak	
2		52.310	38.61	-14.01	24.60	40.00	-15.40	peak	
3		123.120	39.85	-13.11	26.74	43.50	-16.76	peak	
4		181.320	38.23	-13.38	24.85	43.50	-18.65	peak	
5		485.900	30.55	-7.86	22.69	46.00	-23.31	peak	
6		776.900	30.15	-3.32	26.83	46.00	-19.17	peak	

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

Test Mode:	TX B Mode Channel 06

Horizontal



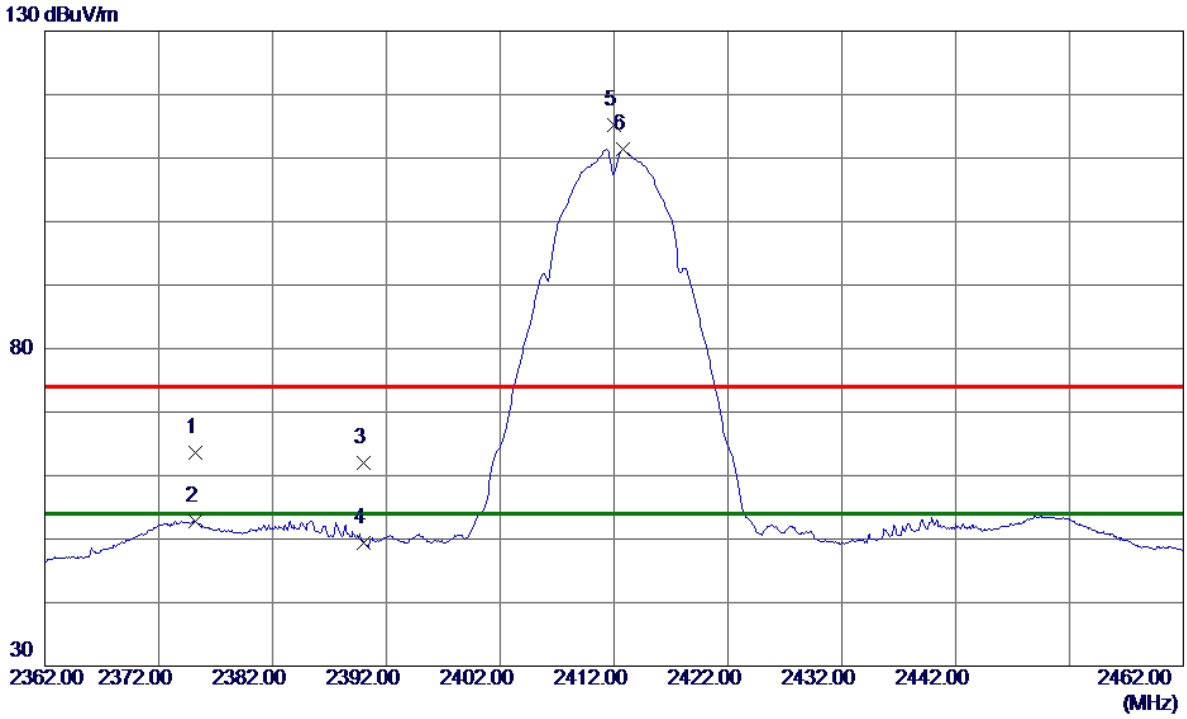
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	31.940	36.59	-14.81	21.78	40.00	-18.22	peak	
2		111.480	35.35	-14.35	21.00	43.50	-22.50	peak	
3		216.240	35.12	-15.07	20.05	46.00	-25.95	peak	
4		252.130	33.90	-13.57	20.33	46.00	-25.67	peak	
5		481.050	31.15	-7.90	23.25	46.00	-22.75	peak	
6		765.260	30.31	-3.47	26.84	46.00	-19.16	peak	

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

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	2375.2000	53.72	9.89	63.61	74.00	-10.39	Peak	
2	2375.2000	42.98	9.89	52.87	54.00	-1.13	AVG	
3	2390.0000	52.07	9.95	62.02	74.00	-11.98	Peak	
4	2390.0000	39.48	9.95	49.43	54.00	-4.57	AVG	
5	2412.0500	105.13	10.03	115.16	74.00	41.16	Peak	No Limit
6 *	2412.7500	101.35	10.03	111.38	54.00	57.38	AVG	No Limit

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

Test Mode:	TX B Mode 2412 MHz

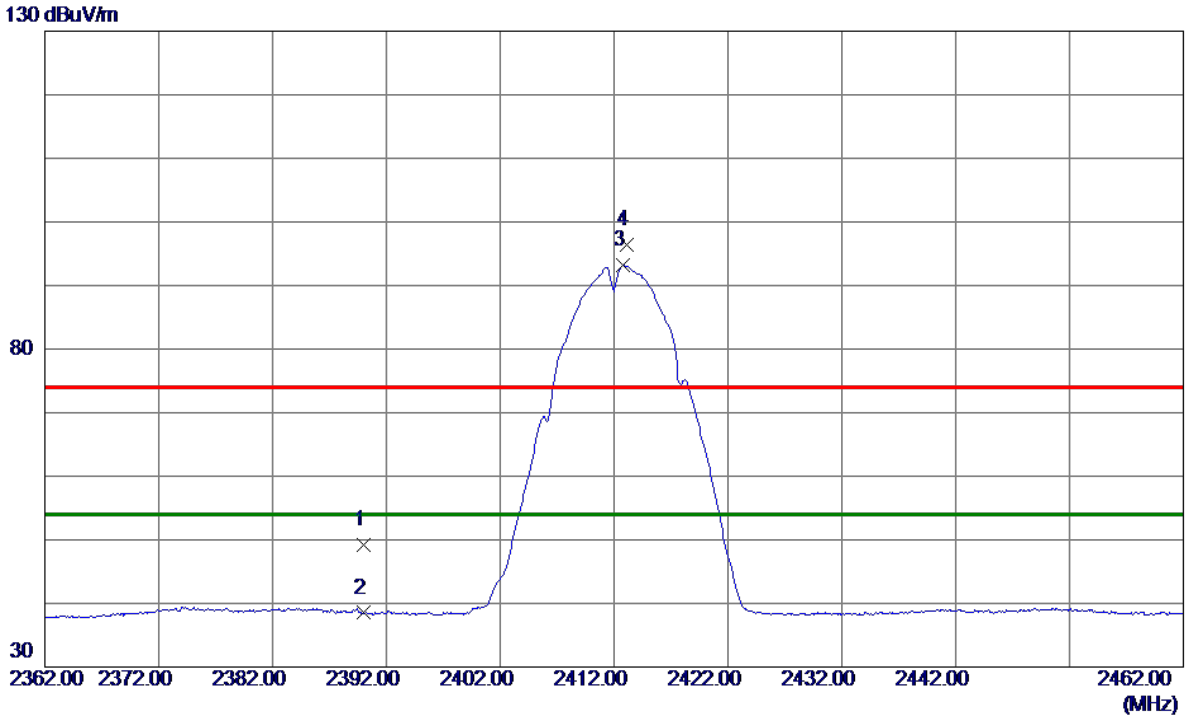
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824.0379	44.62	7.69	52.31	54.00	-1.69	AVG	
2	4824.1210	47.82	7.69	55.51	74.00	-18.49	Peak	

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

Test Mode:	TX B Mode 2412 MHz

Horizontal

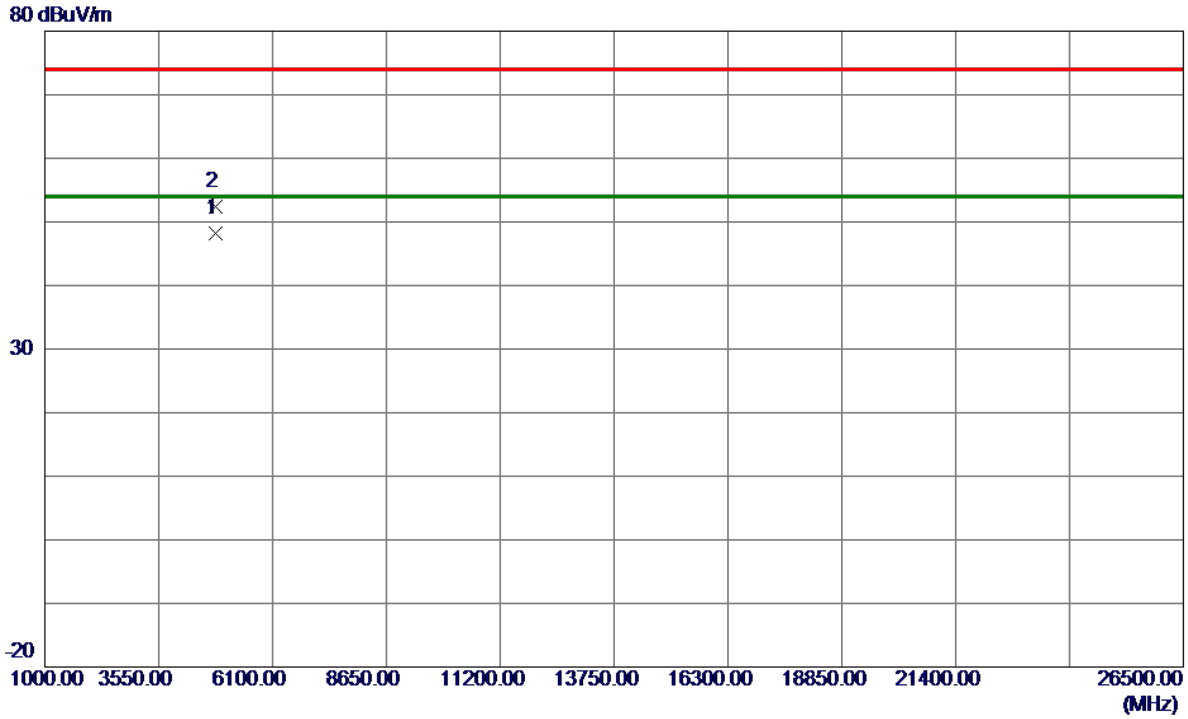


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39.34	9.95	49.29	74.00	-24.71	Peak	
2	2390.0000	28.55	9.95	38.50	54.00	-15.50	AVG	
3 *	2412.8000	83.19	10.03	93.22	54.00	39.22	AVG	No Limit
4	2413.1000	86.36	10.03	96.39	74.00	22.39	Peak	No Limit

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

Test Mode:	TX B Mode 2412 MHz

Horizontal

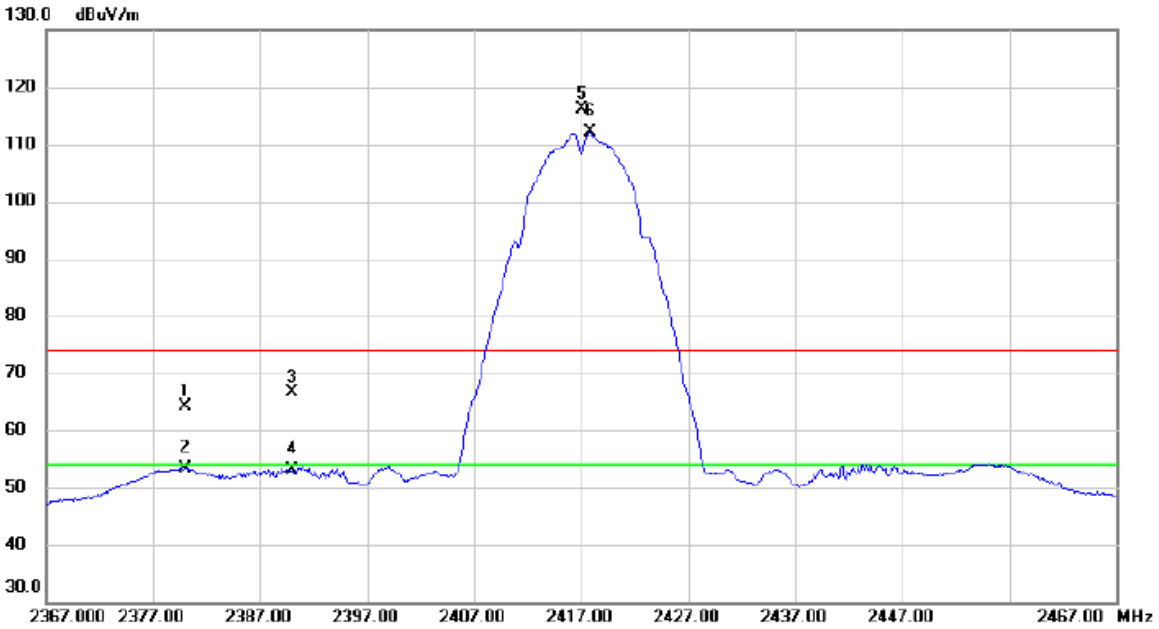


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9380	40.58	7.68	48.26	54.00	-5.74	AVG	
2	4824.0010	44.64	7.68	52.32	74.00	-21.68	Peak	

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

Test Mode:	TX B Mode 2417 MHz

Vertical

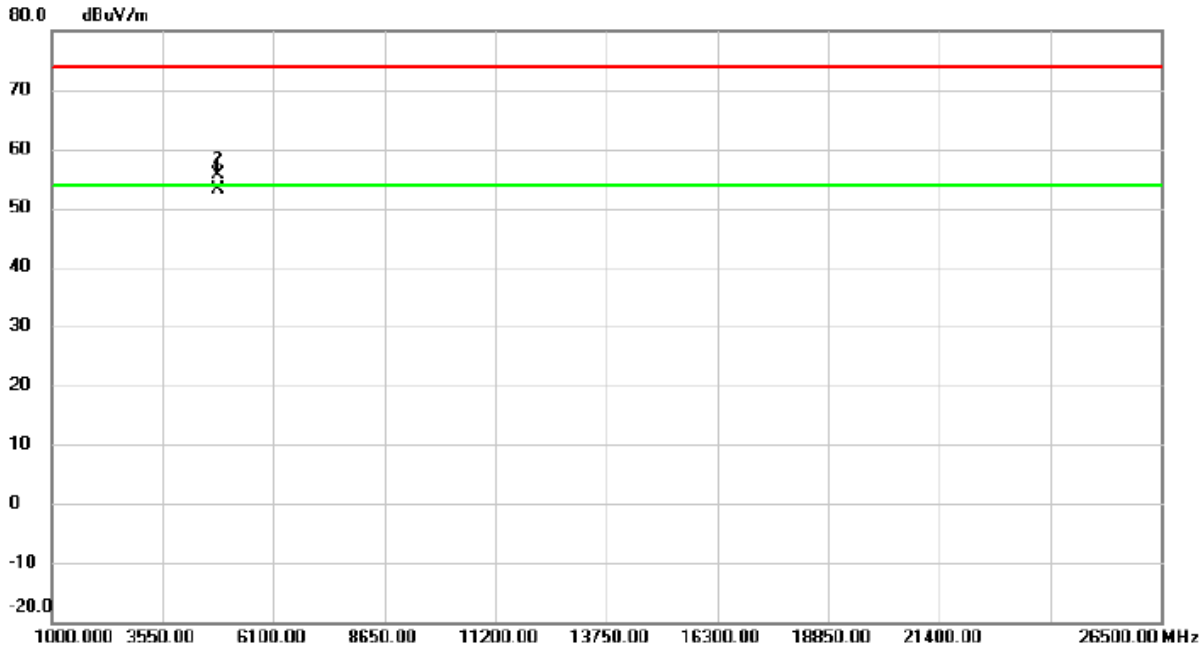


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2379.950	54.24	9.91	64.15	74.00	-9.85	peak	
2		2379.950	43.58	9.91	53.49	54.00	-0.51	AVG	
3		2390.000	56.61	9.95	66.56	74.00	-7.44	peak	
4		2390.000	43.16	9.95	53.11	54.00	-0.89	AVG	
5	X	2417.100	106.00	10.05	116.05	74.00	42.05	peak	No Limit
6	*	2417.800	101.97	10.05	112.02	54.00	58.02	AVG	No Limit

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

Test Mode:	TX B Mode 2417 MHz

Vertical

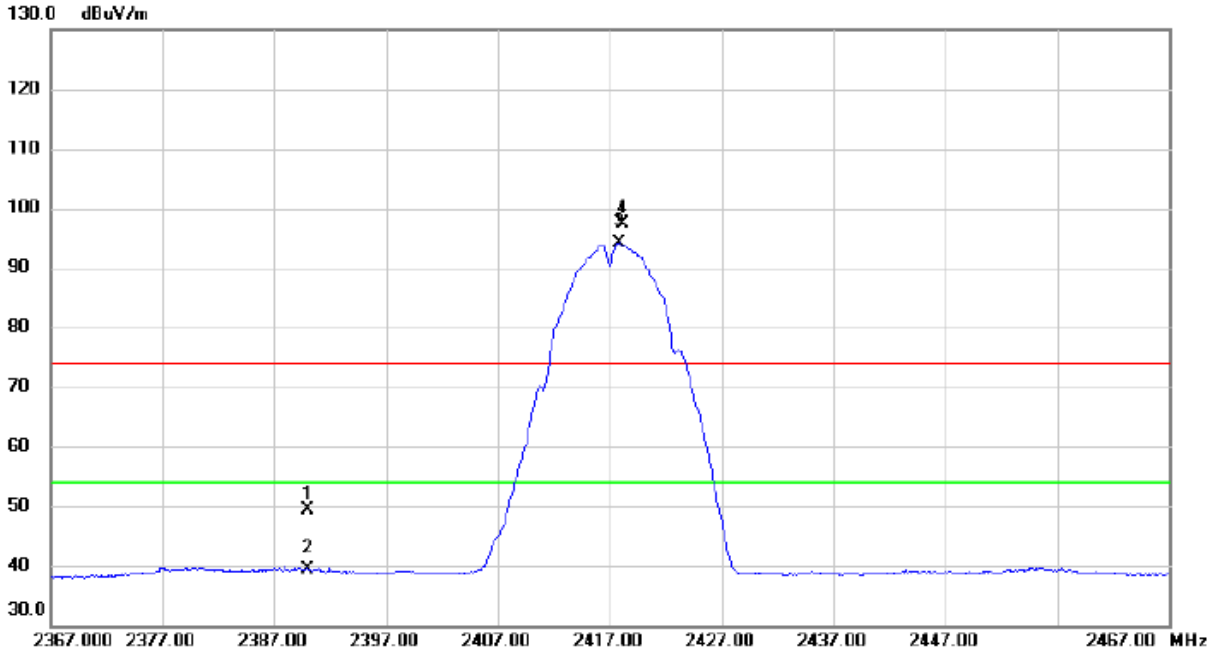


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4834.002	45.44	7.72	53.16	54.00	-0.84	AVG	
2		4834.006	47.89	7.72	55.61	74.00	-18.39	peak	

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

Test Mode:	TX B Mode 2417 MHz

Horizontal

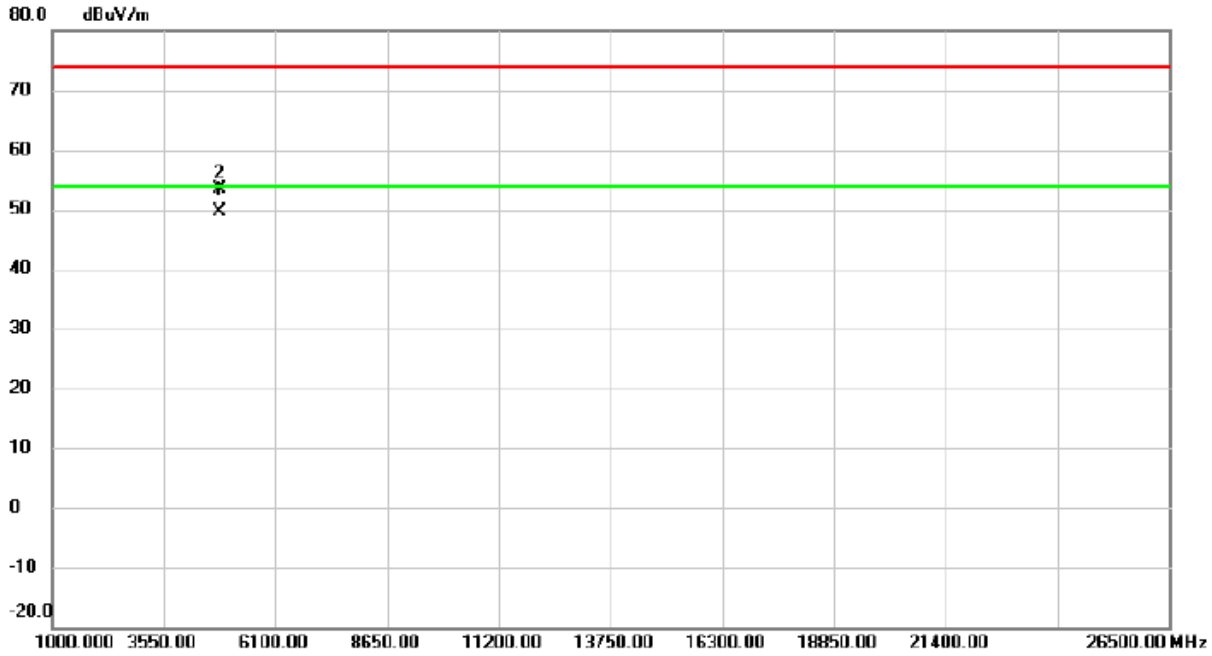


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	39.35	9.95	49.30	74.00	-24.70	peak	
2		2390.000	29.50	9.95	39.45	54.00	-14.55	AVG	
3	*	2417.800	84.20	10.05	94.25	54.00	40.25	AVG	No Limit
4	X	2418.150	87.25	10.06	97.31	74.00	23.31	peak	No Limit

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

Test Mode:	TX B Mode 2417 MHz

Horizontal

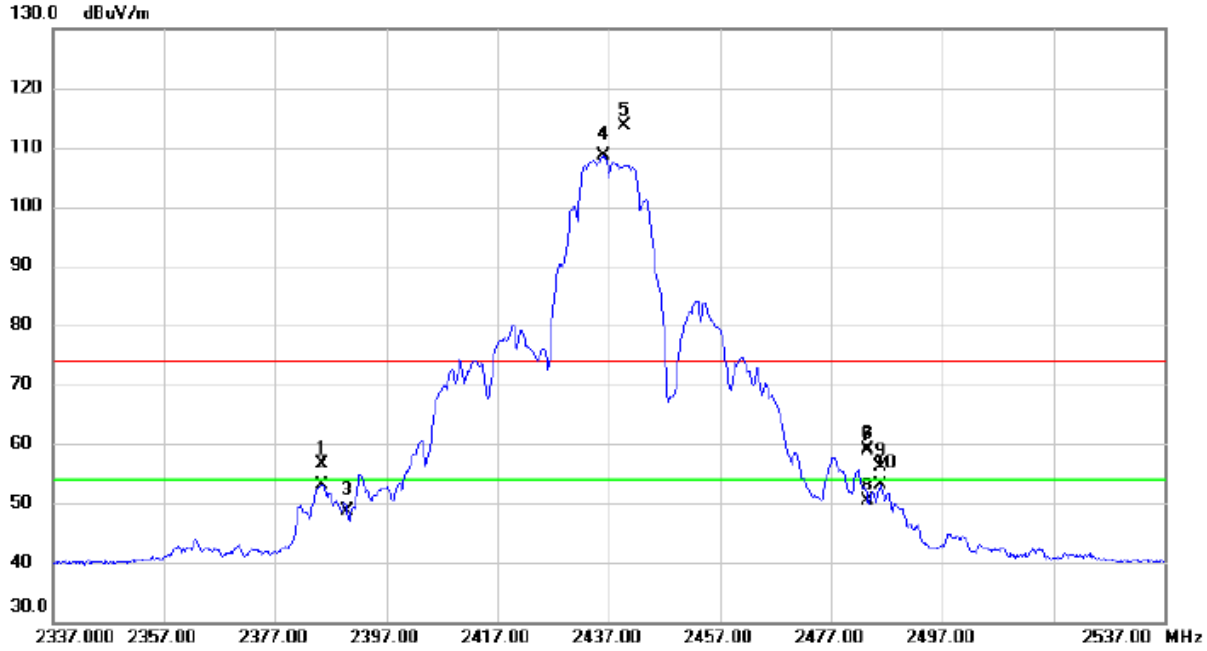


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4834.004	42.01	7.72	49.73	54.00	-4.27	AVG	
2		4834.022	45.78	7.72	53.50	74.00	-20.50	peak	

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

Test Mode:	TX B Mode 2437 MHz

Vertical

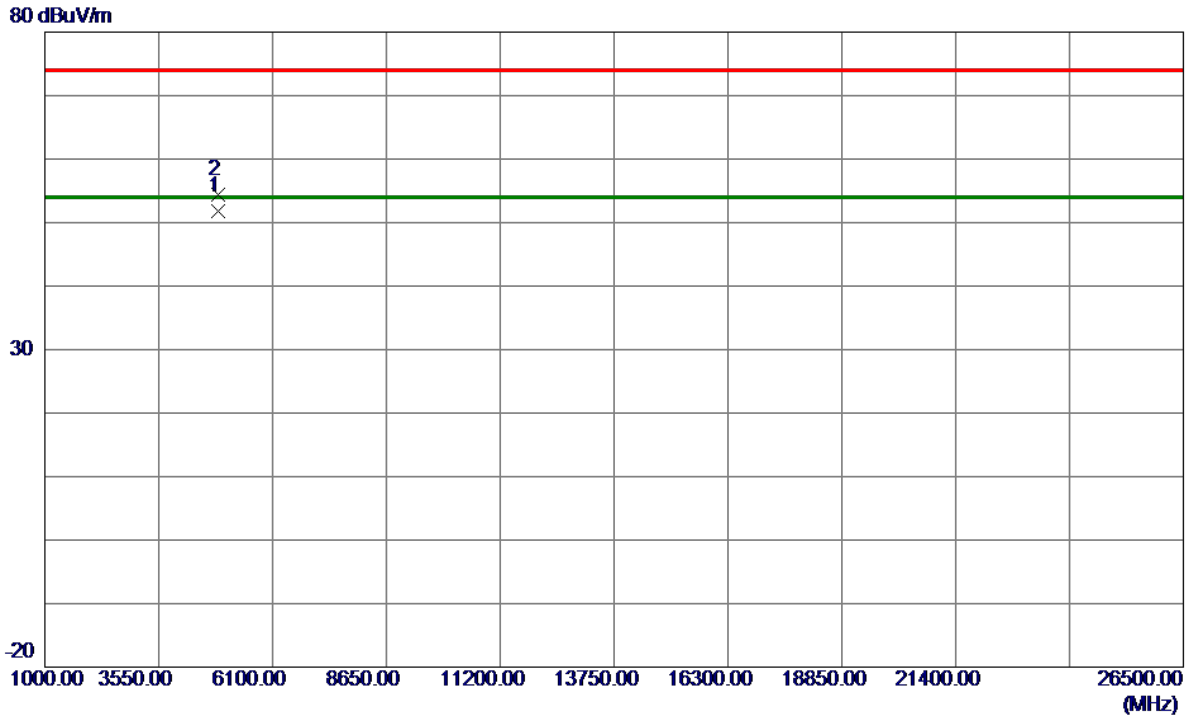


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2385.400	47.44	9.07	56.51	74.00	-17.49	peak	
2		2385.400	43.96	9.07	53.03	54.00	-0.97	AVG	
3		2390.000	39.62	9.07	48.69	54.00	-5.31	AVG	
4	*	2436.200	99.57	9.04	108.61	54.00	54.61	AVG	No Limit
5	X	2439.800	104.56	9.04	113.60	74.00	39.60	peak	No Limit
6		2483.500	50.12	9.02	59.14	74.00	-14.86	peak	
7		2483.500	49.94	9.02	58.96	74.00	-15.04	peak	
8		2483.500	41.42	9.02	50.44	74.00	-23.56	peak	
9		2485.800	47.18	9.01	56.19	74.00	-17.81	peak	
10		2485.800	44.08	9.01	53.09	54.00	-0.91	AVG	

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

Test Mode:	TX B Mode 2437 MHz

Vertical

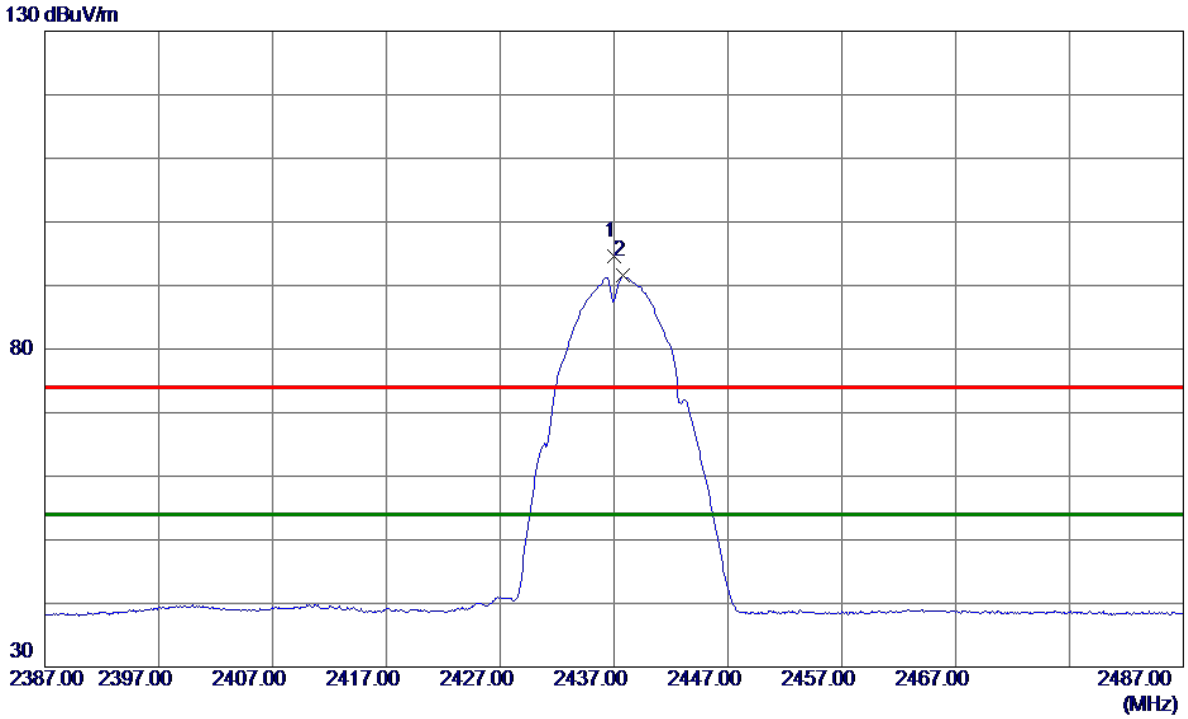


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0320	43.88	7.89	51.77	54.00	-2.23	AVG	
2	4874.1750	46.56	7.89	54.45	74.00	-19.55	Peak	

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

Test Mode:	TX B Mode 2437 MHz

Horizontal

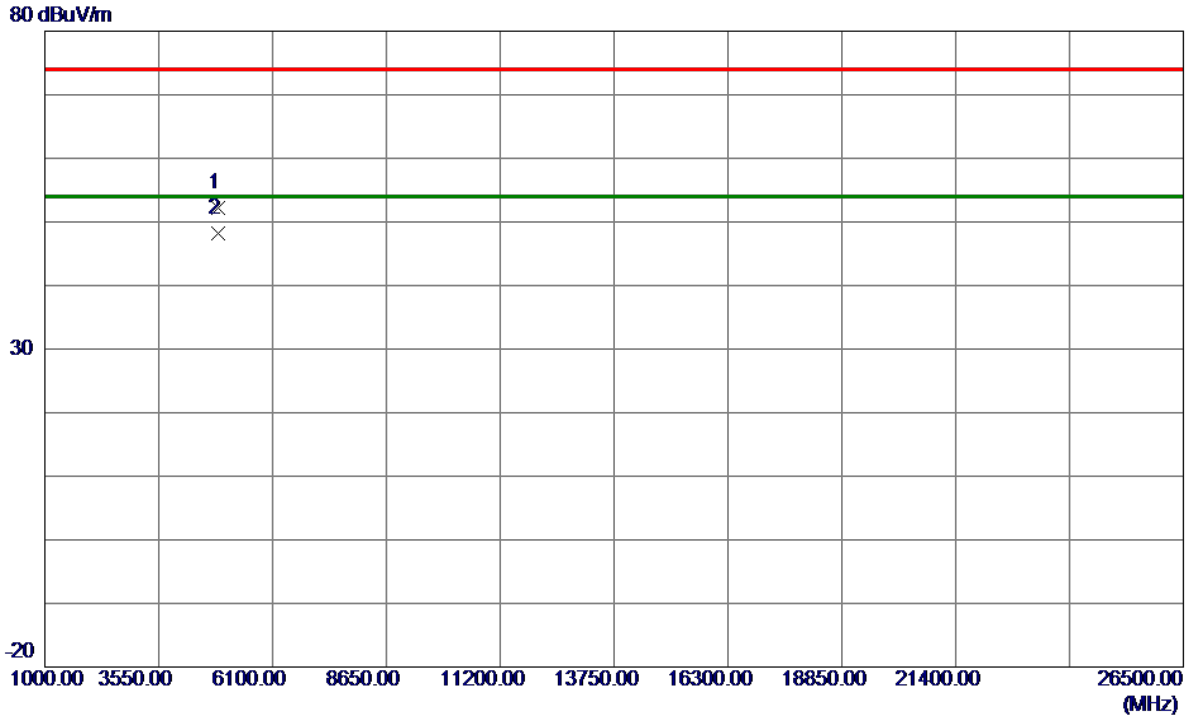


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.0000	84.43	10.12	94.55	74.00	20.55	Peak	No Limit
2 *	2437.8000	81.40	10.13	91.53	54.00	37.53	AVG	No Limit

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

Test Mode:	TX B Mode 2437 MHz

Horizontal

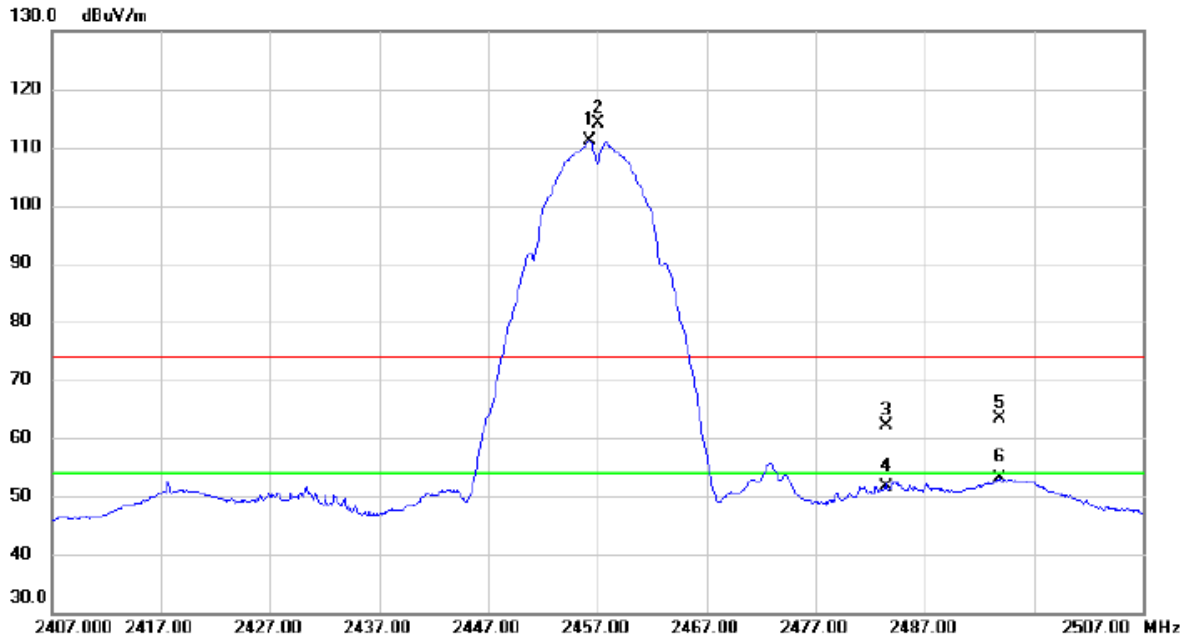


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9710	44.34	7.89	52.23	74.00	-21.77	Peak	
2 *	4874.0700	40.25	7.89	48.14	54.00	-5.86	AVG	

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

Test Mode:	TX B Mode 2457 MHz

Vertical

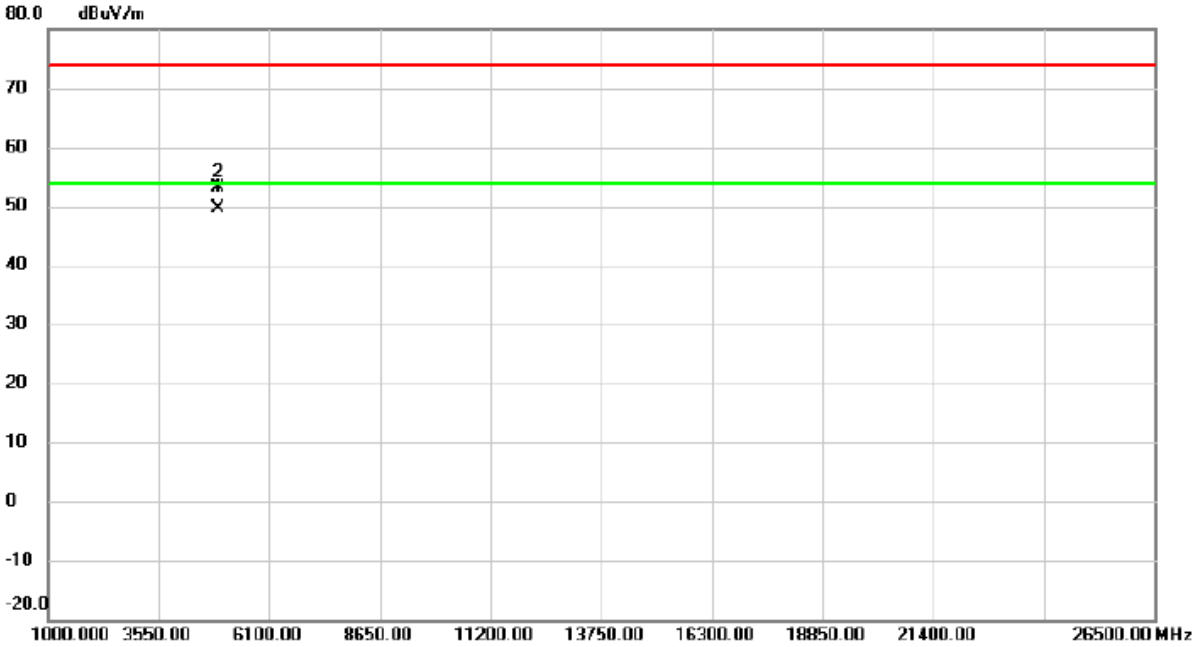


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.300	100.83	10.19	111.02	54.00	57.02	AVG	No Limit
2	X	2457.000	104.03	10.20	114.23	74.00	40.23	peak	No Limit
3		2483.500	51.96	10.29	62.25	74.00	-11.75	peak	
4		2483.500	41.23	10.29	51.52	54.00	-2.48	AVG	
5		2493.900	52.94	10.34	63.28	74.00	-10.72	peak	
6		2493.900	42.71	10.34	53.05	54.00	-0.95	AVG	

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

Test Mode:	TX B Mode 2457 MHz

Vertical

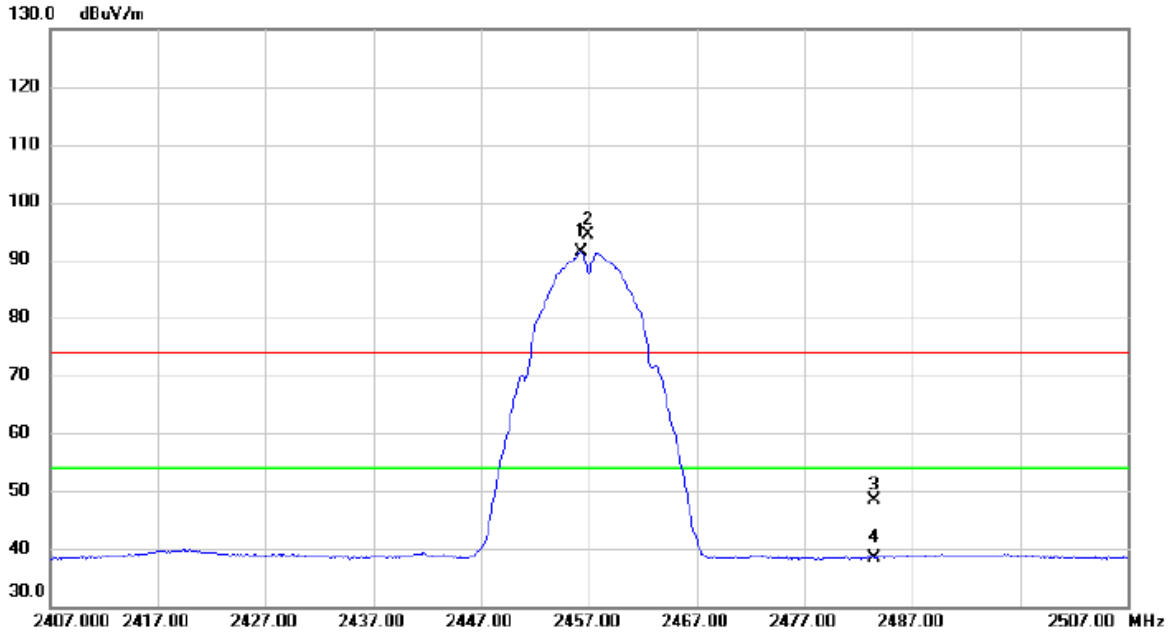


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4914.003	41.56	8.05	49.61	54.00	-4.39	AVG	
2		4914.007	45.18	8.05	53.23	74.00	-20.77	peak	

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

Test Mode:	TX B Mode 2457 MHz

Horizontal

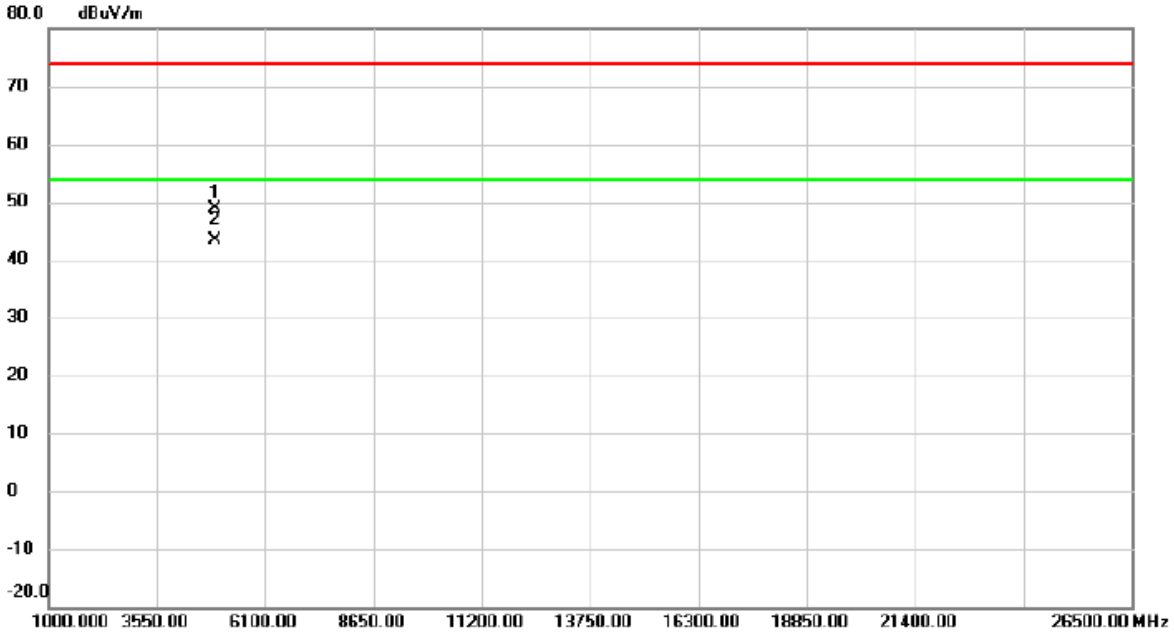


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2456.250	81.12	10.19	91.31	54.00	37.31	AVG	No Limit
2	X	2456.950	84.17	10.20	94.37	74.00	20.37	peak	No Limit
3		2483.500	38.21	10.29	48.50	74.00	-25.50	peak	
4		2483.500	28.10	10.29	38.39	54.00	-15.61	AVG	

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

Test Mode:	TX B Mode 2457 MHz

Horizontal

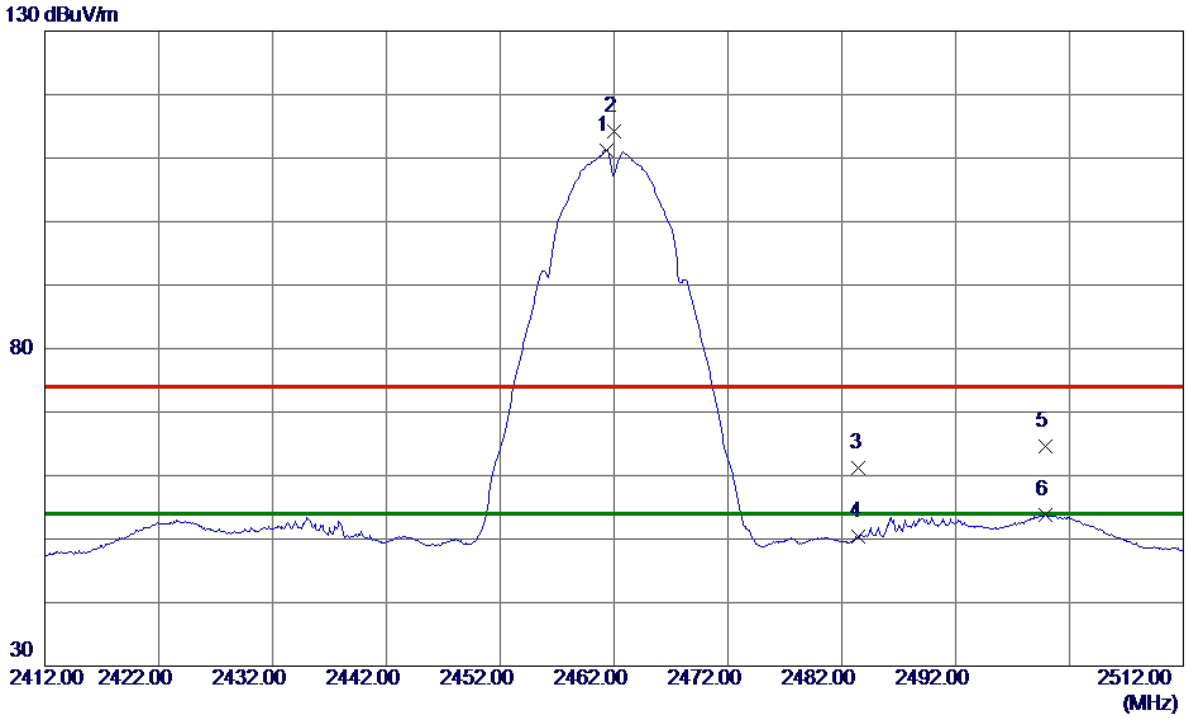


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4914.009	40.92	8.05	48.97	74.00	-25.03	peak	
2	*	4914.013	35.39	8.05	43.44	54.00	-10.56	AVG	

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

Test Mode:	TX B Mode 2462 MHz

Vertical

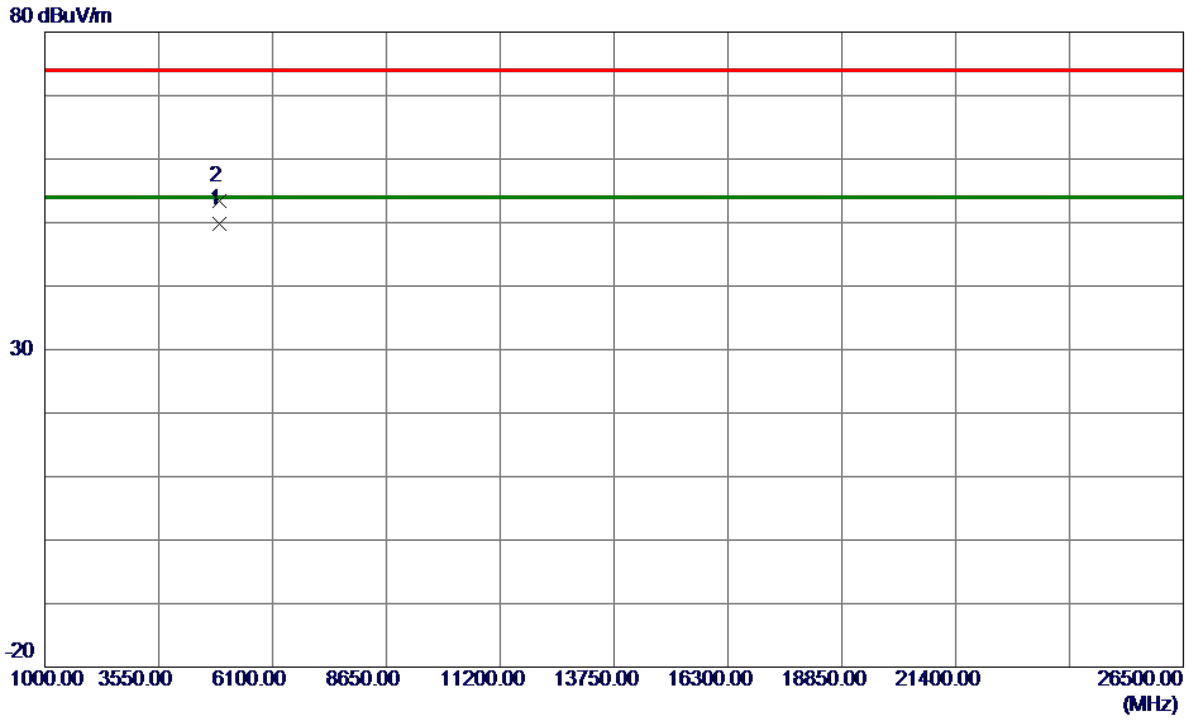


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.3500	101.02	10.21	111.23	54.00	57.23	AVG	No Limit
2	2462.0500	104.07	10.22	114.29	74.00	40.29	Peak	No Limit
3	2483.5000	50.86	10.30	61.16	74.00	-12.84	Peak	
4	2483.5000	40.12	10.30	50.42	54.00	-3.58	AVG	
5	2499.9000	54.16	10.36	64.52	74.00	-9.48	Peak	
6	2499.9000	43.35	10.36	53.71	54.00	-0.29	AVG	

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

Test Mode:	TX B Mode 2462 MHz

Vertical

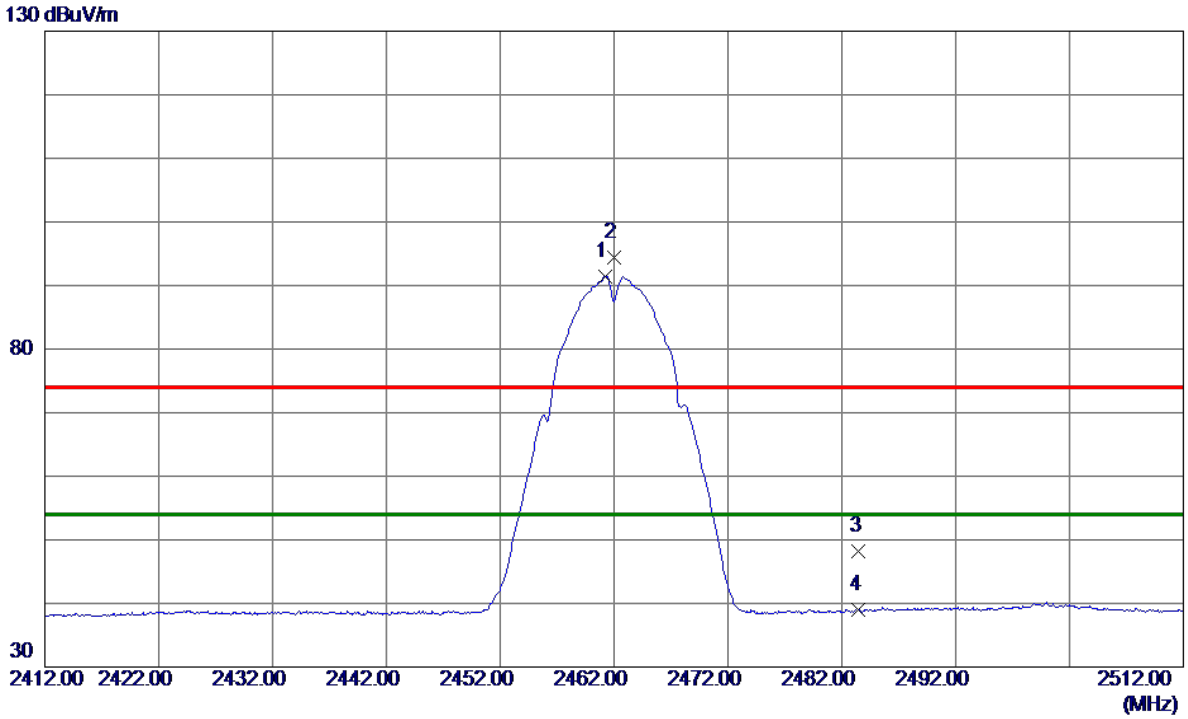


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.9740	41.74	8.10	49.84	54.00	-4.16	AVG	
2	4924.0580	45.35	8.10	53.45	74.00	-20.55	Peak	

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

Test Mode:	TX B Mode 2462 MHz

Horizontal

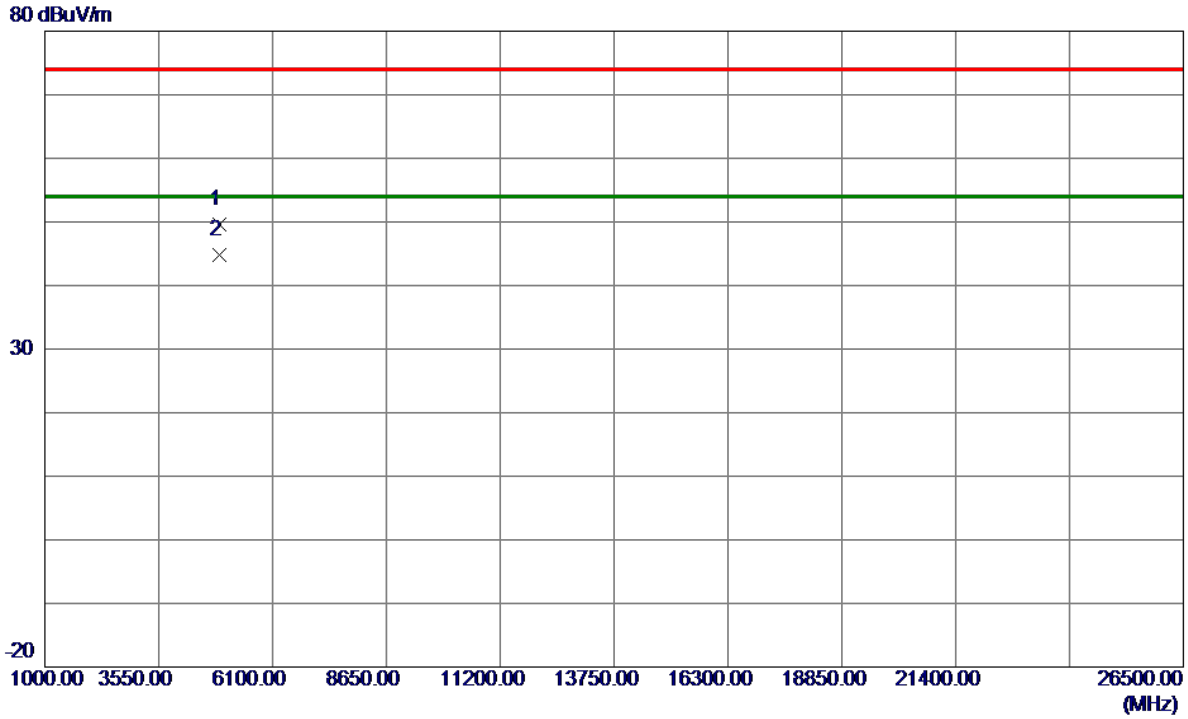


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.2500	81.27	10.21	91.48	54.00	37.48	AVG	No Limit
2	2462.0500	84.12	10.22	94.34	74.00	20.34	Peak	No Limit
3	2483.5000	37.87	10.30	48.17	74.00	-25.83	Peak	
4	2483.5000	28.67	10.30	38.97	54.00	-15.03	AVG	

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

Test Mode:	TX B Mode 2462 MHz

Horizontal

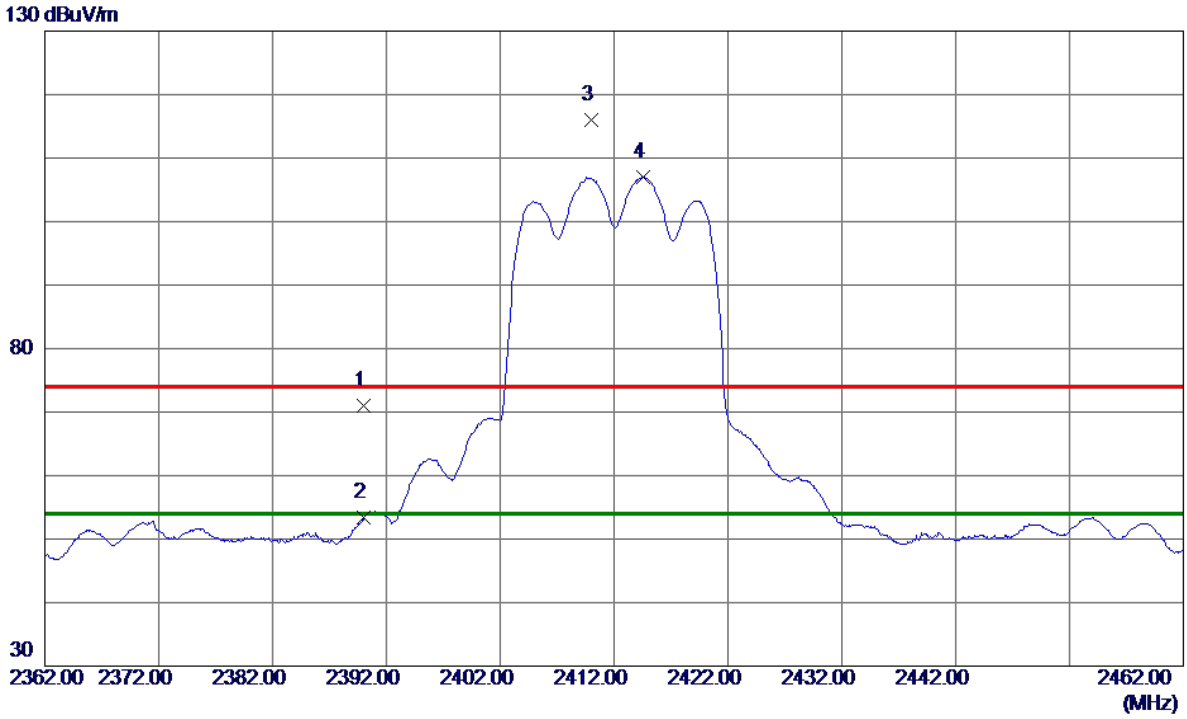


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8300	41.57	8.10	49.67	74.00	-24.33	Peak	
2 *	4924.0610	36.74	8.10	44.84	54.00	-9.16	AVG	

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

Test Mode:	TX G Mode 2412 MHz

Vertical

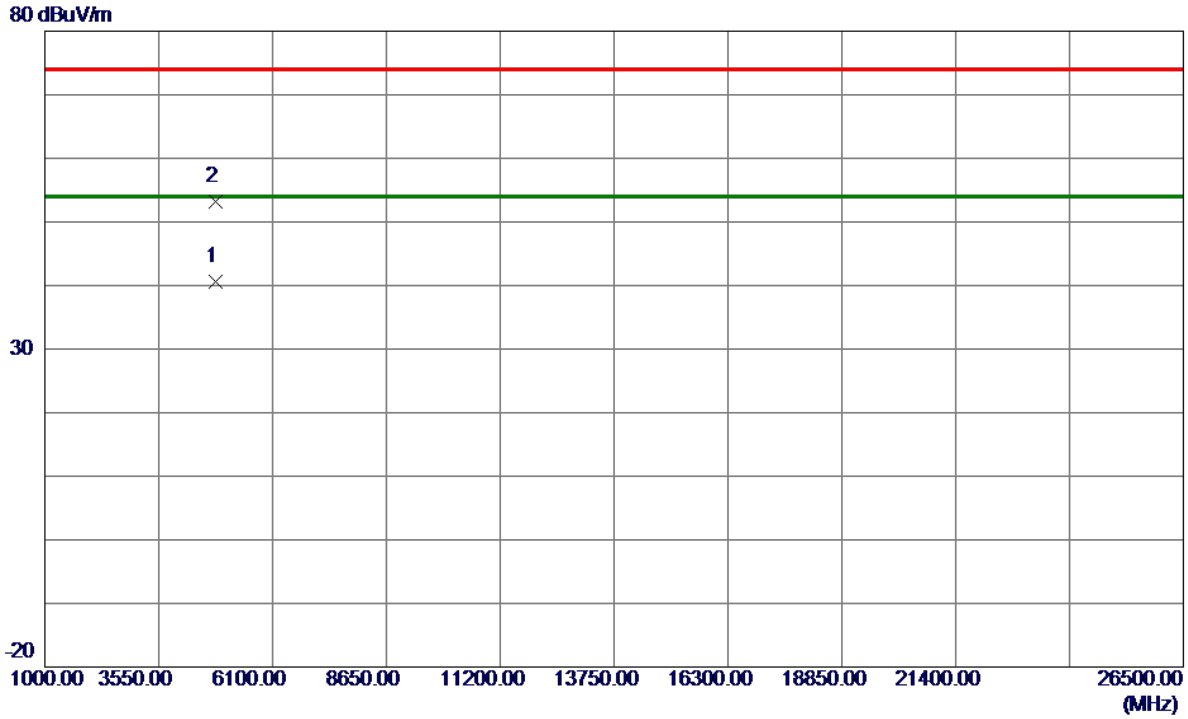


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	61.06	9.95	71.01	74.00	-2.99	Peak	
2	2390.0000	43.49	9.95	53.44	54.00	-0.56	AVG	
3	2410.0000	105.99	10.02	116.01	74.00	42.01	Peak	No Limit
4 *	2414.6000	96.92	10.04	106.96	54.00	52.96	AVG	No Limit

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

Test Mode:	TX G Mode 2412 MHz

Vertical

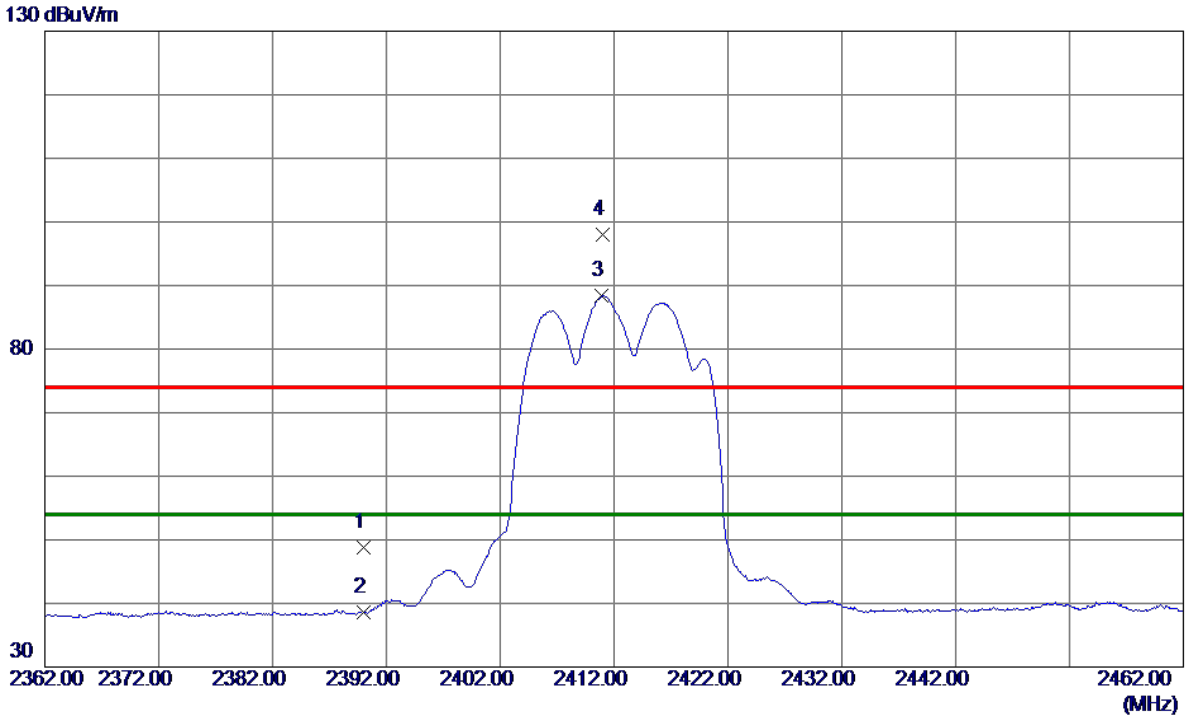


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4822.8500	33.01	7.68	40.69	54.00	-13.31	AVG	
2	4828.4000	45.50	7.70	53.20	74.00	-20.80	Peak	

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

Test Mode:	TX G Mode 2412 MHz

Horizontal

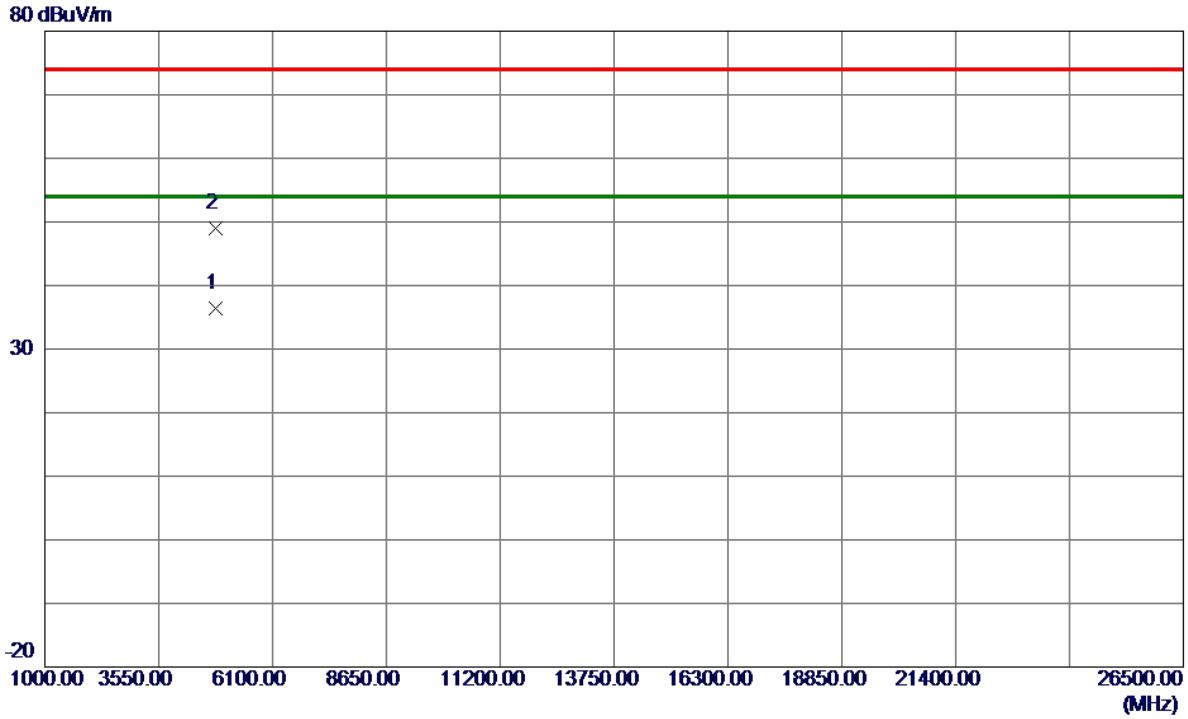


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	38.94	9.95	48.89	74.00	-25.11	Peak	
2	2390.0000	28.68	9.95	38.63	54.00	-15.37	AVG	
3 *	2410.9000	78.42	10.02	88.44	54.00	34.44	AVG	No Limit
4	2411.0500	87.87	10.03	97.90	74.00	23.90	Peak	No Limit

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

Test Mode:	TX G Mode 2412 MHz

Horizontal

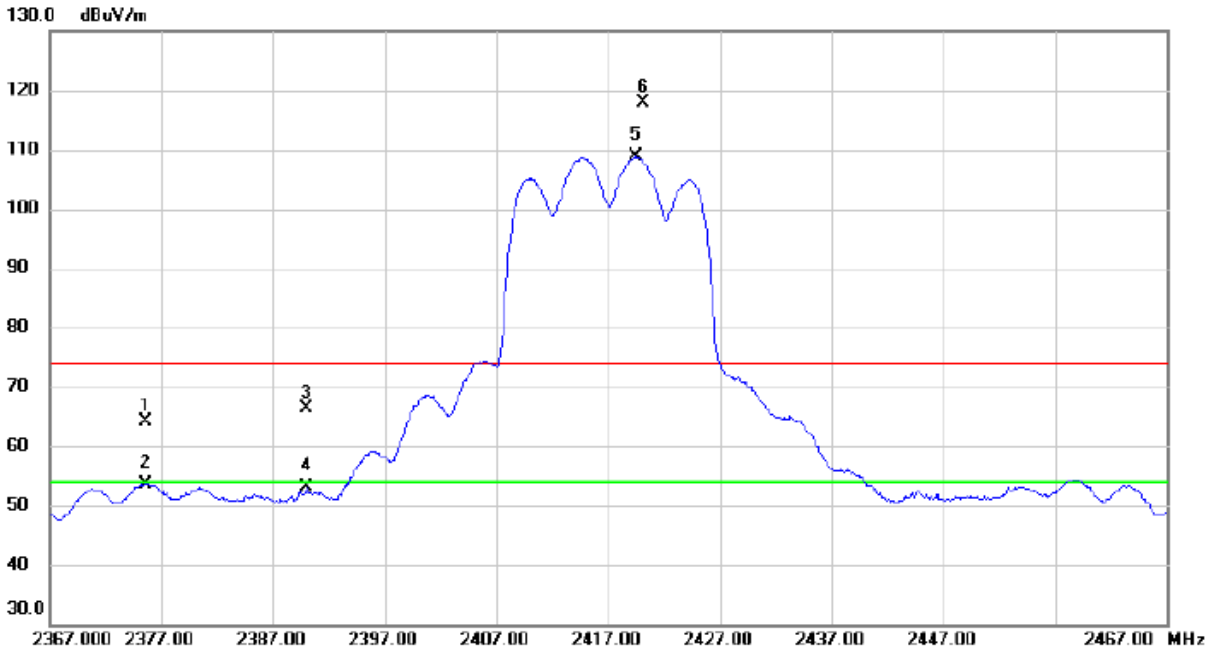


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4822.4250	28.74	7.68	36.42	54.00	-17.58	AVG	
2	4827.1250	41.21	7.70	48.91	74.00	-25.09	Peak	

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

Test Mode:	TX G Mode 2417 MHz

Vertical

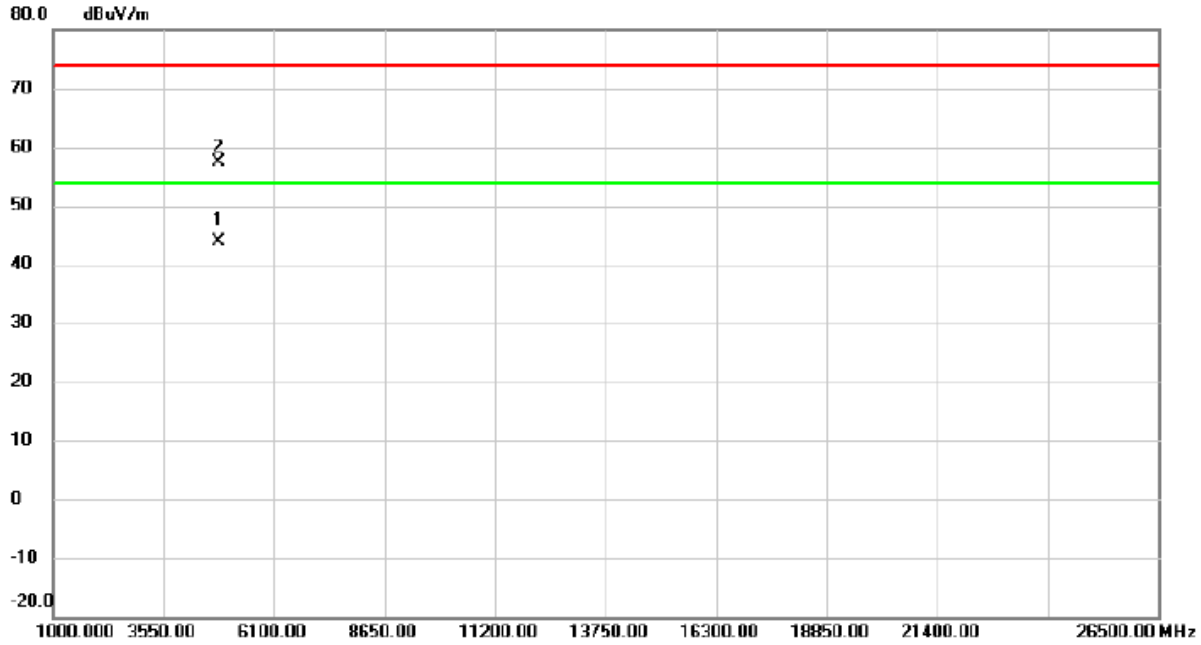


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2375.550	54.34	9.90	64.24	74.00	-9.76	peak	
2		2375.550	43.84	9.90	53.74	54.00	-0.26	AVG	
3		2390.000	56.31	9.95	66.26	74.00	-7.74	peak	
4		2390.000	43.27	9.95	53.22	54.00	-0.78	AVG	
5	*	2419.450	98.80	10.06	108.86	54.00	54.86	AVG	No Limit
6	X	2420.100	107.72	10.06	117.78	74.00	43.78	peak	No Limit

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

Test Mode:	TX G Mode 2417 MHz

Vertical

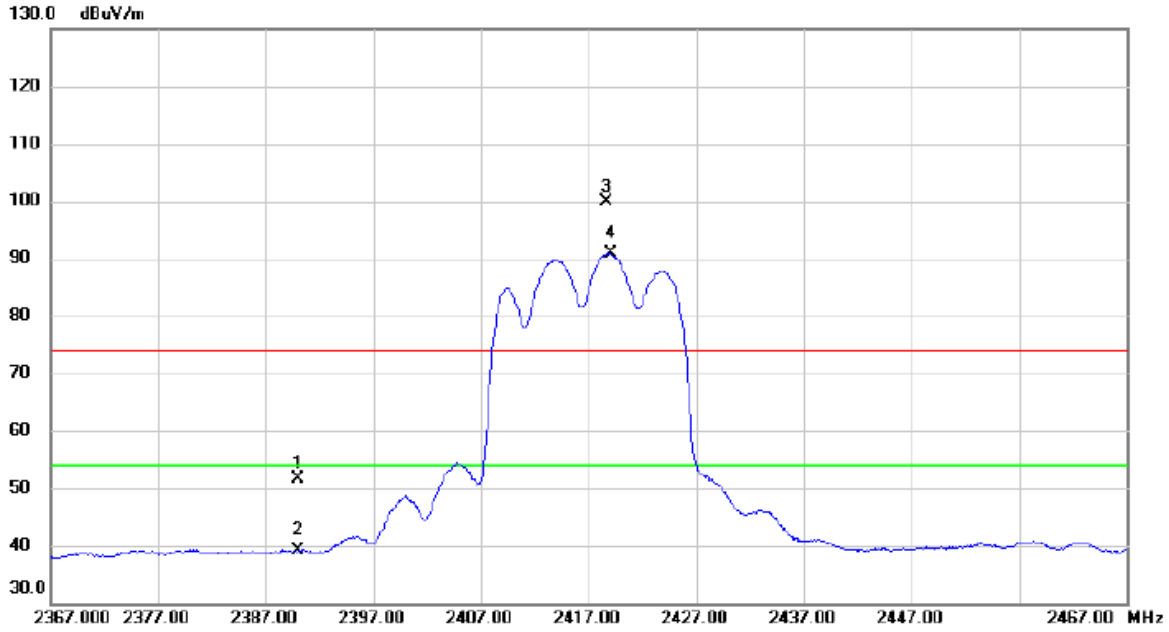


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4832.825	36.13	7.72	43.85	54.00	-10.15	AVG	
2		4833.700	49.64	7.72	57.36	74.00	-16.64	peak	

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

Test Mode:	TX G Mode 2417 MHz

Horizontal

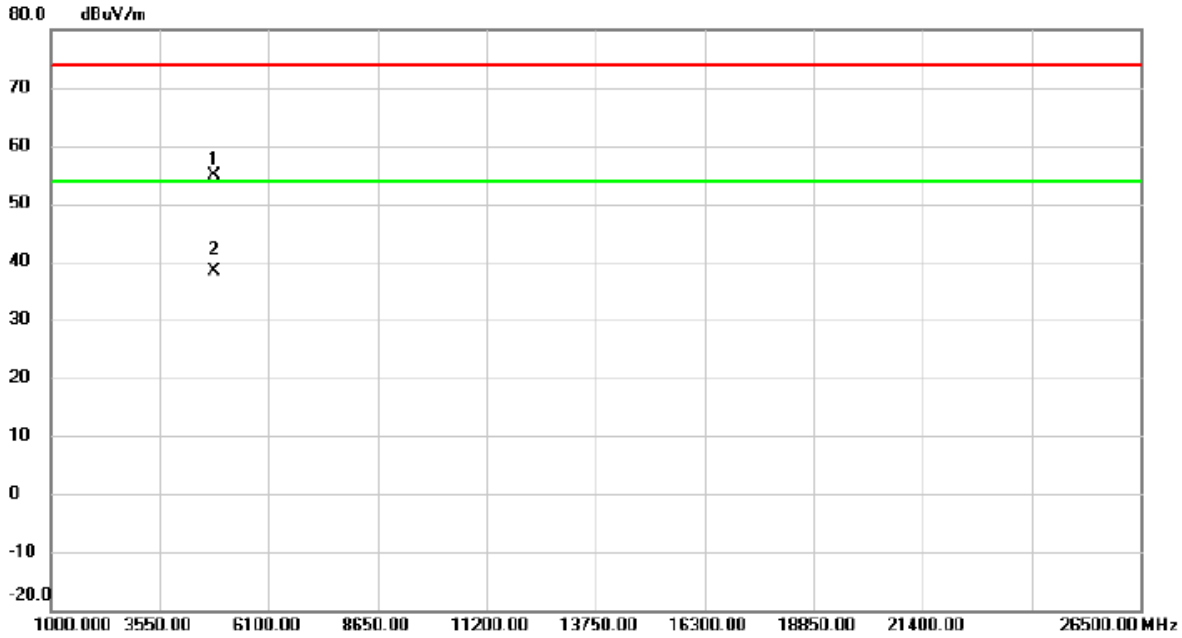


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	41.66	9.95	51.61	74.00	-22.39	peak	
2		2390.000	29.12	9.95	39.07	54.00	-14.93	AVG	
3	X	2418.700	89.90	10.06	99.96	74.00	25.96	peak	No Limit
4	*	2419.050	80.78	10.06	90.84	54.00	36.84	AVG	No Limit

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

Test Mode:	TX G Mode 2417 MHz

Horizontal

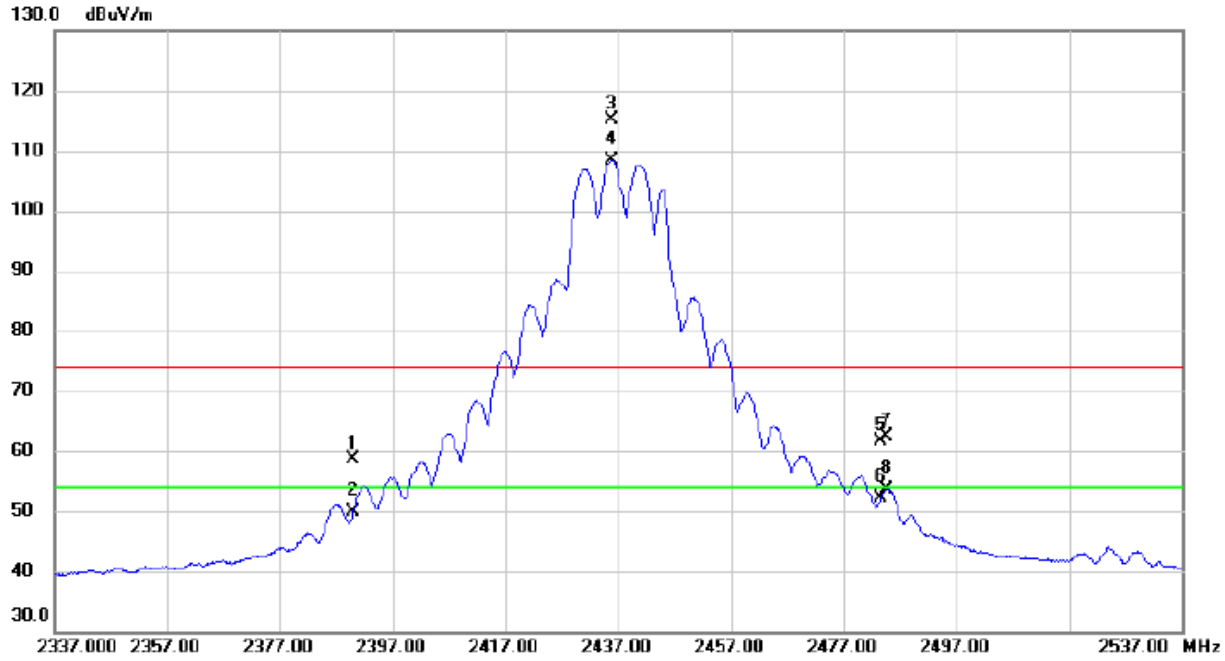


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4834.025	47.15	7.72	54.87	74.00	-19.13	peak	
2	*	4834.300	30.69	7.72	38.41	54.00	-15.59	AVG	

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

Test Mode:	TX G Mode 2437 MHz

Vertical

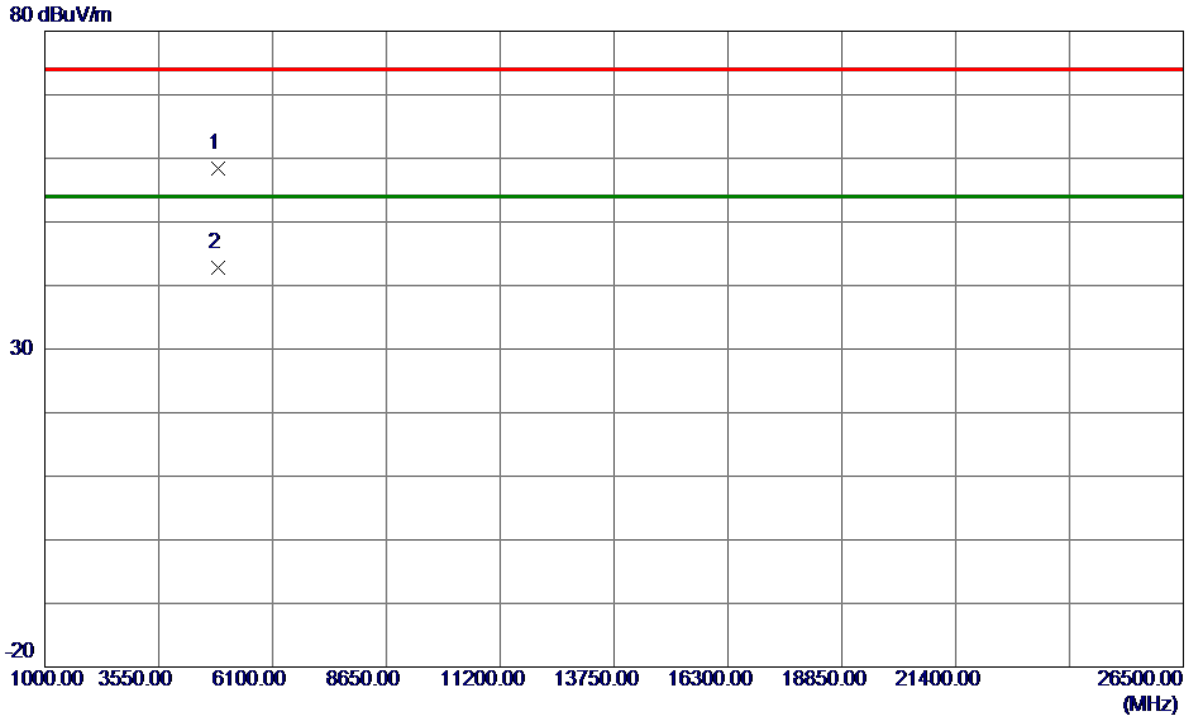


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	49.56	9.07	58.63	74.00	-15.37	peak	
2		2390.000	40.88	9.07	49.95	54.00	-4.05	AVG	
3	X	2435.800	105.97	9.04	115.01	74.00	41.01	peak	No Limit
4	*	2435.800	99.35	9.04	108.39	54.00	54.39	AVG	No Limit
5		2483.500	52.59	9.02	61.61	74.00	-12.39	peak	
6		2483.500	43.04	9.02	52.06	54.00	-1.94	AVG	
7		2484.600	53.48	9.02	62.50	74.00	-11.50	peak	
8		2484.600	44.67	9.02	53.69	54.00	-0.31	AVG	

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

Test Mode:	TX G Mode 2437 MHz

Vertical

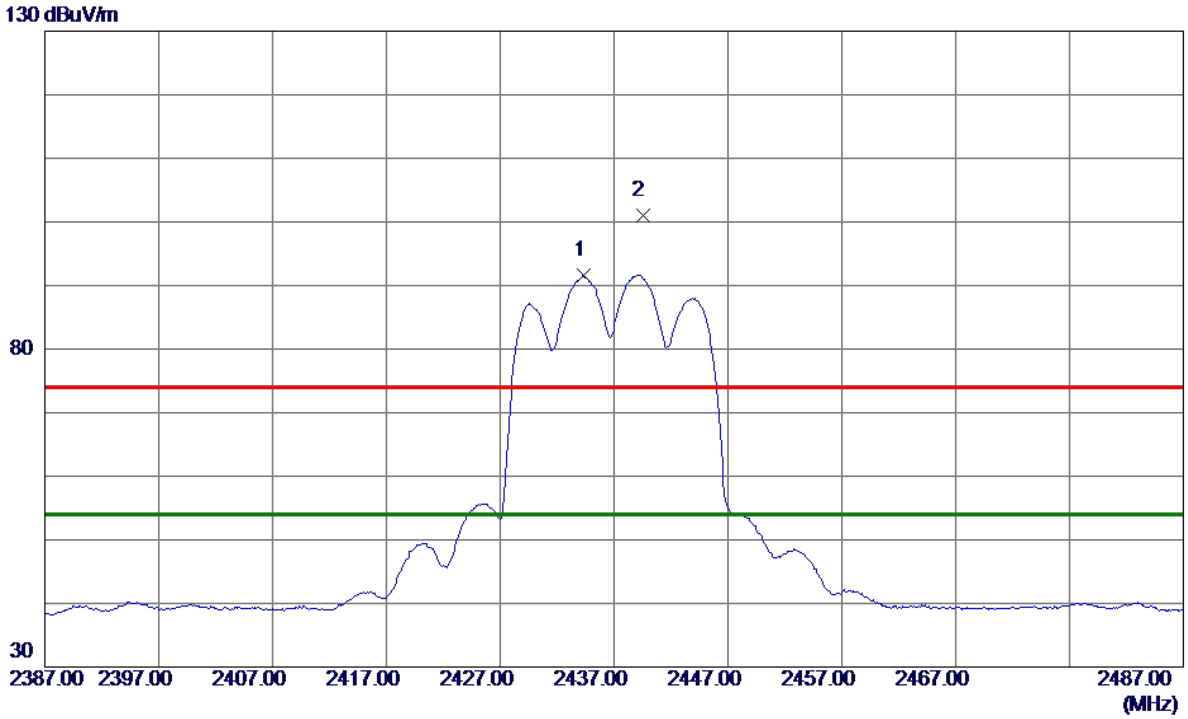


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.7750	50.59	7.89	58.48	74.00	-15.52	Peak	
2 *	4875.5250	34.96	7.90	42.86	54.00	-11.14	AVG	

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

Test Mode:	TX G Mode 2437 MHz

Horizontal

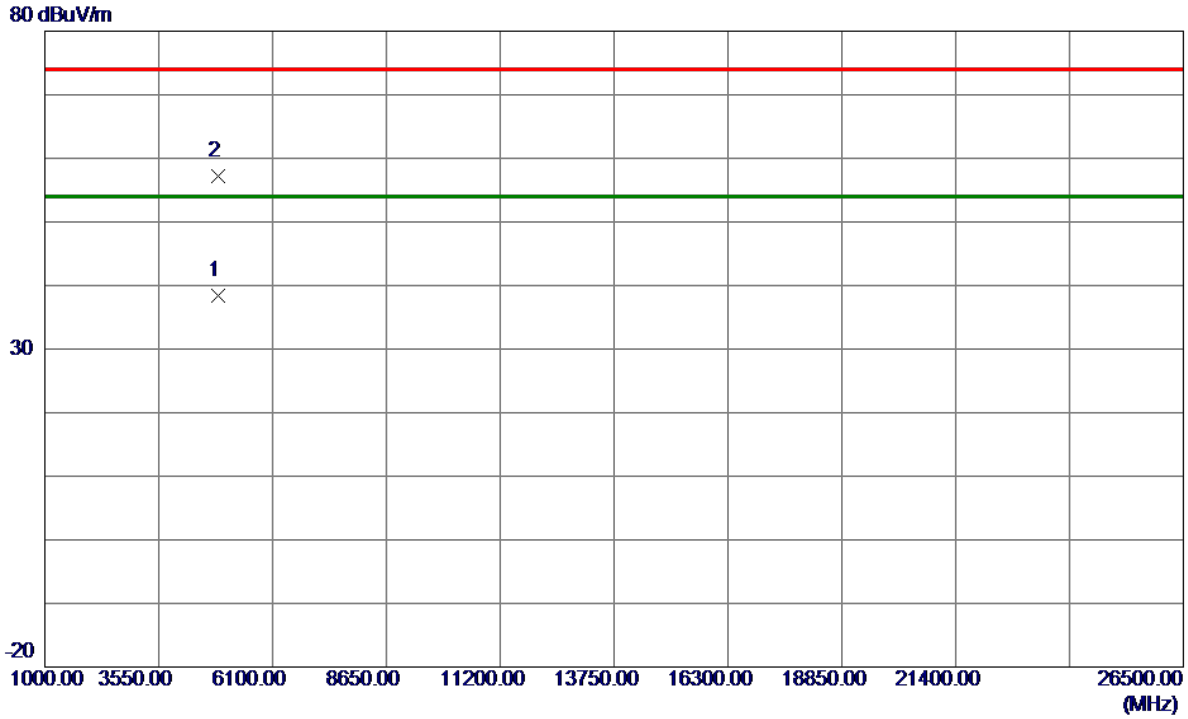


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2434.3000	81.55	10.11	91.66	54.00	37.66	AVG	No Limit
2	2439.5000	90.80	10.13	100.93	74.00	26.93	Peak	No Limit

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

Test Mode:	TX G Mode 2437 MHz

Horizontal

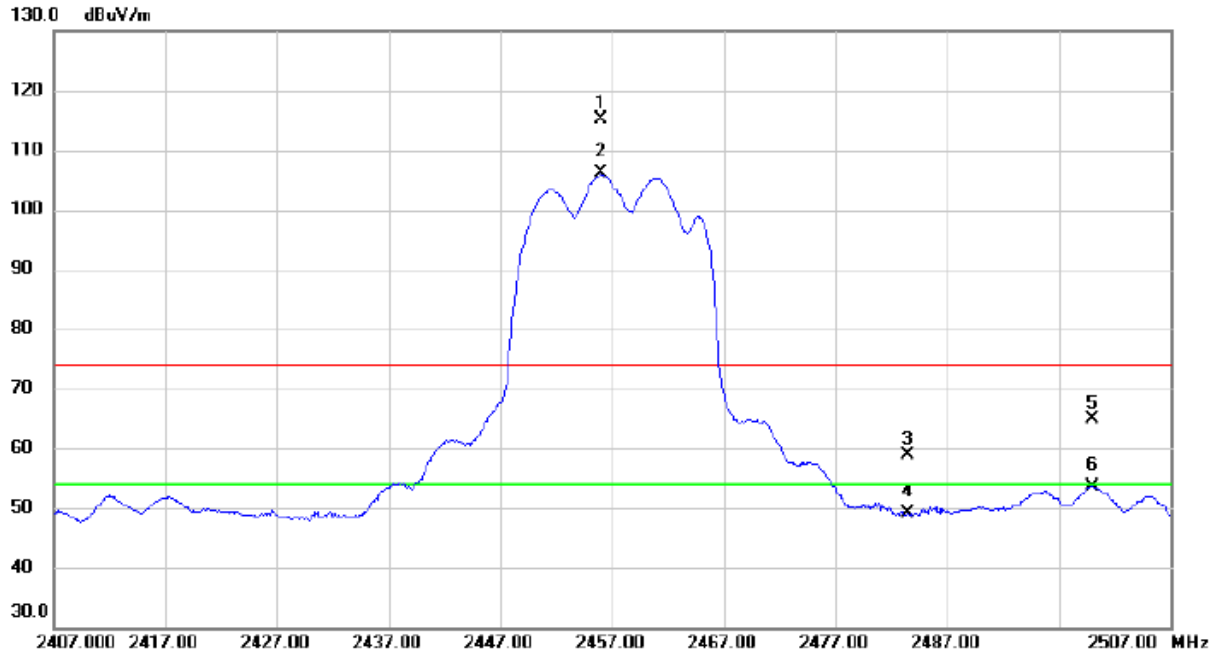


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4869.9250	30.44	7.87	38.31	54.00	-15.69	AVG	
2	4875.4500	49.27	7.90	57.17	74.00	-16.83	Peak	

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

Test Mode:	TX G Mode 2457 MHz

Vertical

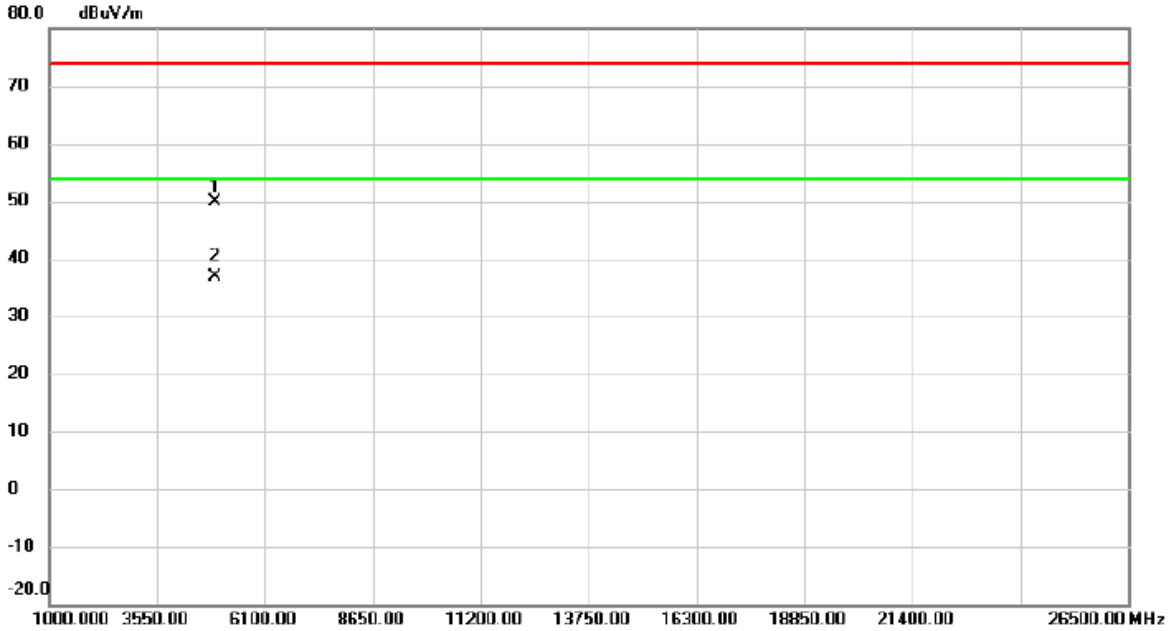


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2455.950	104.82	10.19	115.01	74.00	41.01	peak	No Limit
2	*	2456.050	95.86	10.19	106.05	54.00	52.05	AVG	No Limit
3		2483.500	48.71	10.29	59.00	74.00	-15.00	peak	
4		2483.500	38.76	10.29	49.05	54.00	-4.95	AVG	
5		2499.950	54.54	10.36	64.90	74.00	-9.10	peak	
6		2499.950	43.30	10.36	53.66	54.00	-0.34	AVG	

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

Test Mode:	TX G Mode 2457 MHz

Vertical

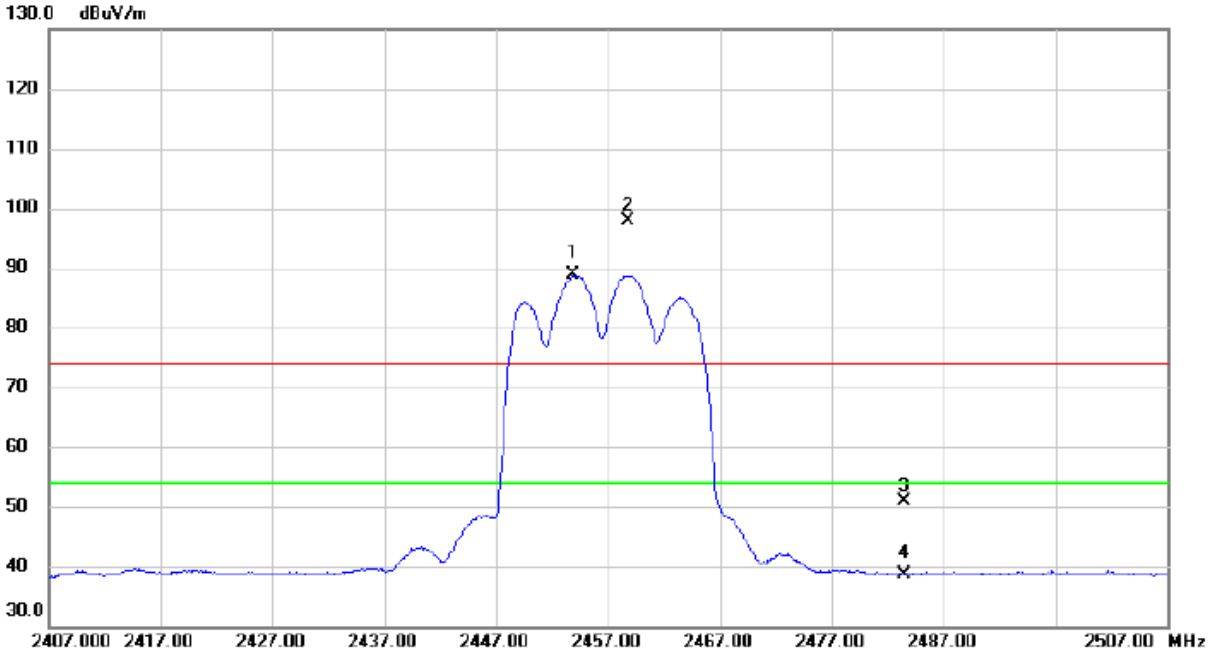


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4914.450	41.93	8.05	49.98	74.00	-24.02	peak	
2	*	4914.725	28.88	8.06	36.94	54.00	-17.06	AVG	

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

Test Mode:	TX G Mode 2457 MHz

Horizontal

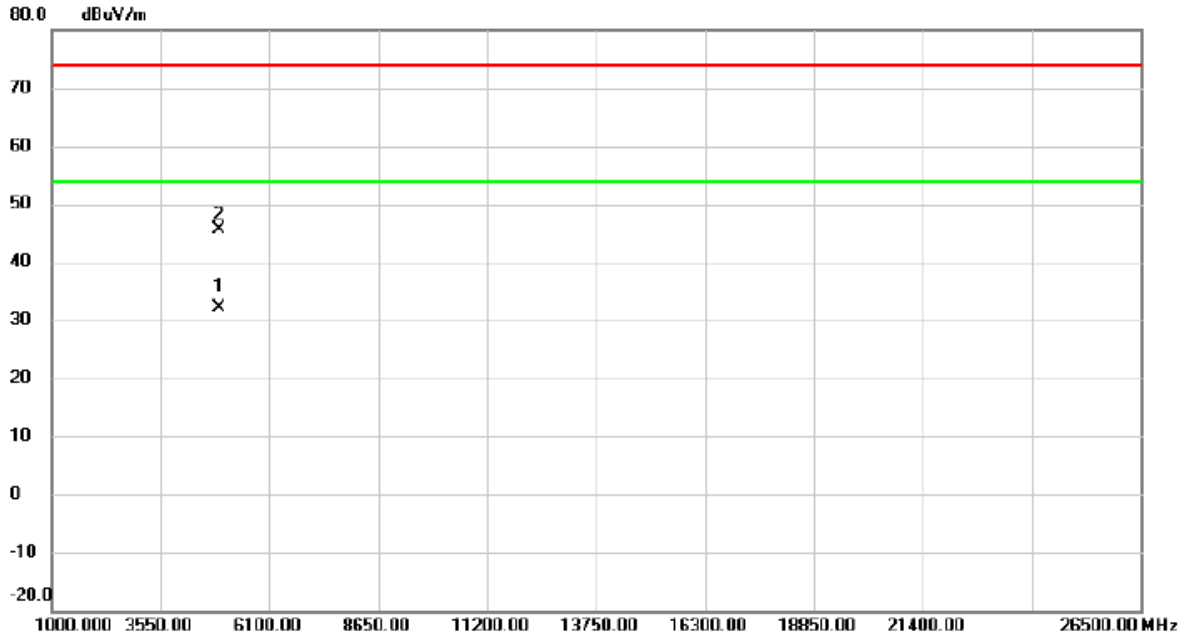


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2453.850	78.61	10.19	88.80	54.00	34.80	AVG	No Limit
2	X	2458.850	87.71	10.20	97.91	74.00	23.91	peak	No Limit
3		2483.500	40.58	10.29	50.87	74.00	-23.13	peak	
4		2483.500	28.39	10.29	38.68	54.00	-15.32	AVG	

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

Test Mode:	TX G Mode 2457 MHz

Horizontal

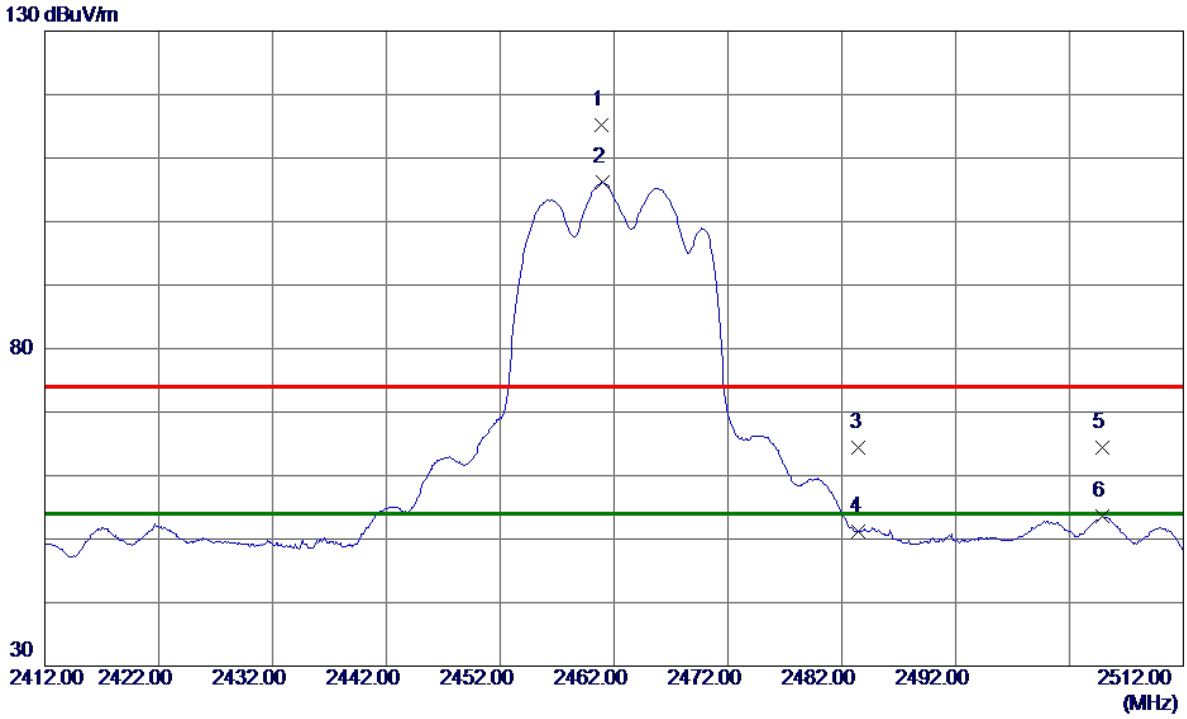


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4914.150	24.12	8.05	32.17	54.00	-21.83	AVG	
2		4914.325	37.62	8.05	45.67	74.00	-28.33	peak	

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

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	2460.9000	104.91	10.21	115.12	74.00	41.12	Peak	No Limit
2 *	2460.9500	95.97	10.21	106.18	54.00	52.18	AVG	No Limit
3	2483.5000	54.17	10.30	64.47	74.00	-9.53	Peak	
4	2483.5000	40.95	10.30	51.25	54.00	-2.75	AVG	
5	2504.8500	54.07	10.38	64.45	74.00	-9.55	Peak	
6	2504.8500	43.14	10.38	53.52	54.00	-0.48	AVG	

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

Test Mode:	TX G Mode 2462 MHz

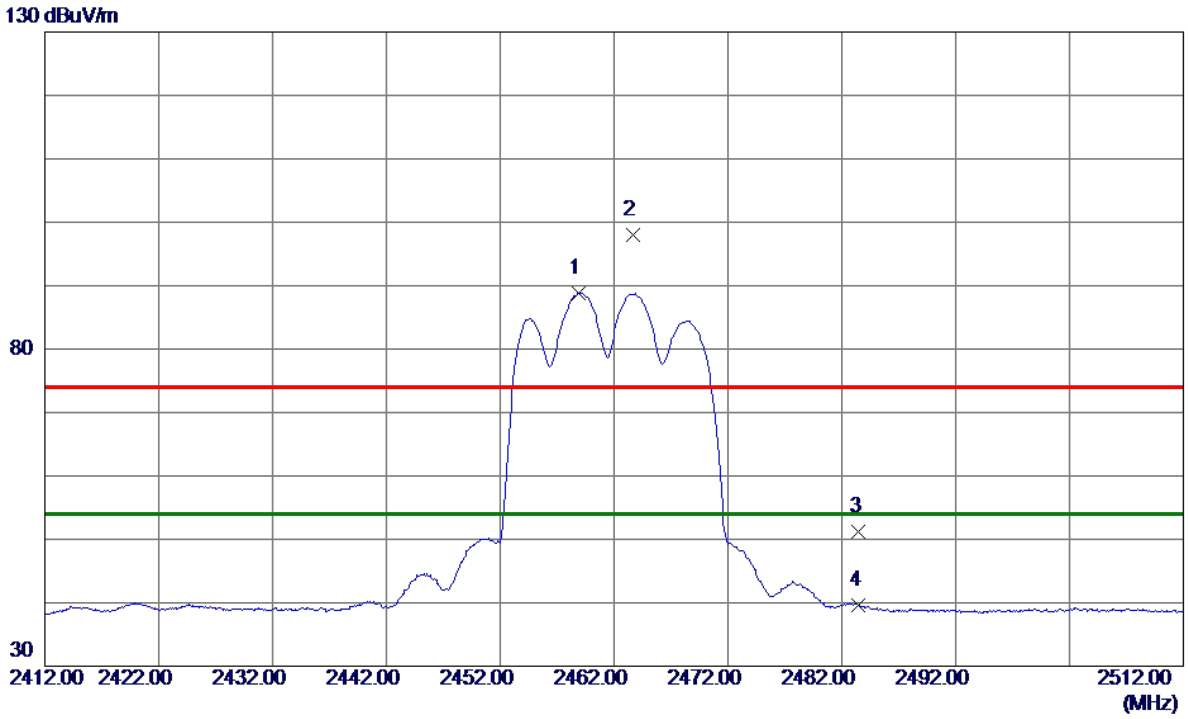
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.8000	30.90	8.10	39.00	54.00	-15.00	AVG	
2	4925.1250	46.14	8.10	54.24	74.00	-19.76	Peak	

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

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 *	2458.9000	78.67	10.21	88.88	54.00	34.88	AVG	No Limit
2	2463.7000	87.88	10.22	98.10	74.00	24.10	Peak	No Limit
3	2483.5000	40.91	10.30	51.21	74.00	-22.79	Peak	
4	2483.5000	29.21	10.30	39.51	54.00	-14.49	AVG	

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

Test Mode:	TX G Mode 2462 MHz

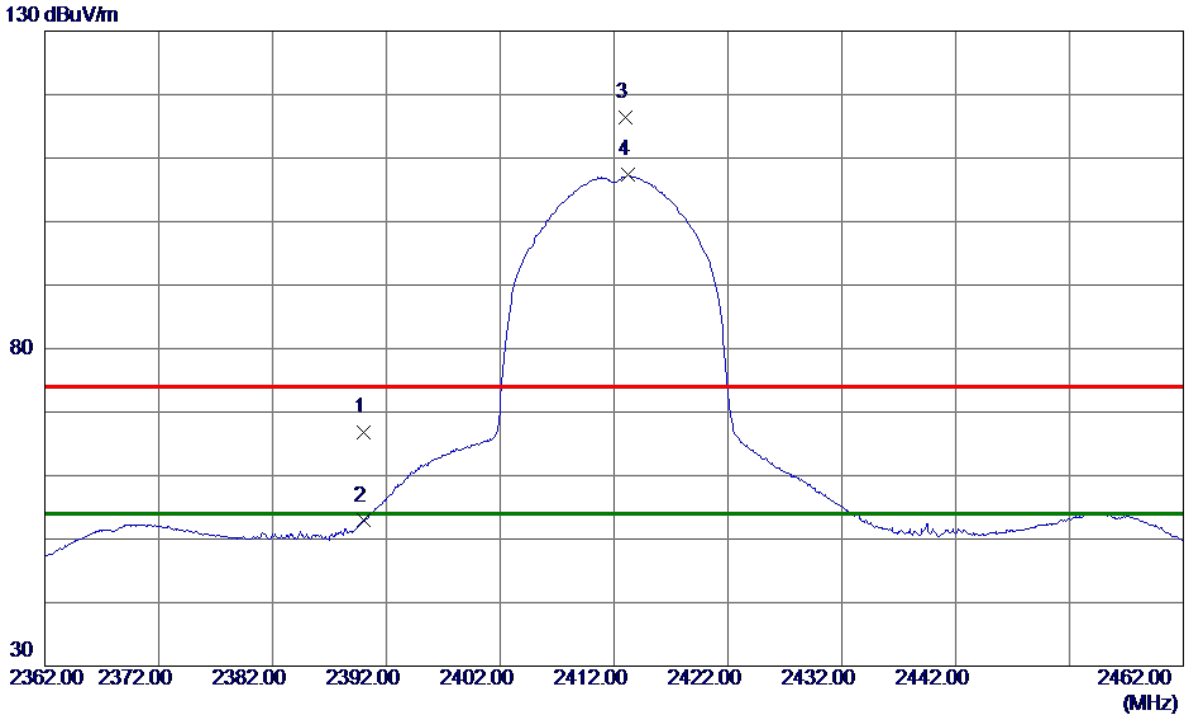
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4925.0000	26.66	8.10	34.76	54.00	-19.24	AVG	
2	4929.8250	41.23	8.12	49.35	74.00	-24.65	Peak	

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

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	2390.0000	56.80	9.95	66.75	74.00	-7.25	Peak	
2	2390.0000	42.95	9.95	52.90	54.00	-1.10	AVG	
3	2413.0500	106.32	10.03	116.35	74.00	42.35	Peak	No Limit
4 *	2413.2000	97.28	10.03	107.31	54.00	53.31	AVG	No Limit

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

Test Mode:	TX N-20M Mode 2412 MHz

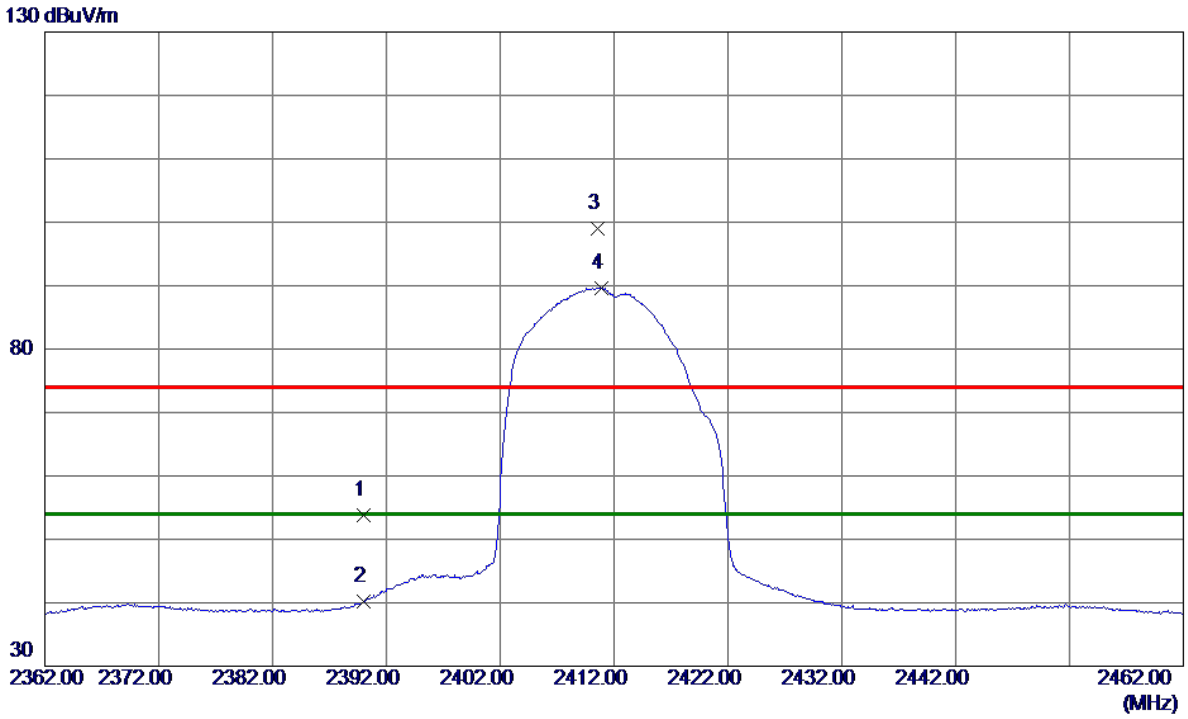
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.8000	33.91	7.68	41.59	54.00	-12.41	AVG	
2	4825.0000	47.70	7.69	55.39	74.00	-18.61	Peak	

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

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	2390.0000	43.84	9.95	53.79	74.00	-20.21	Peak	
2	2390.0000	30.17	9.95	40.12	54.00	-13.88	AVG	
3	2410.6000	89.01	10.02	99.03	74.00	25.03	Peak	No Limit
4 *	2410.8500	79.65	10.02	89.67	54.00	35.67	AVG	No Limit

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

Test Mode:	TX N-20M Mode 2412 MHz

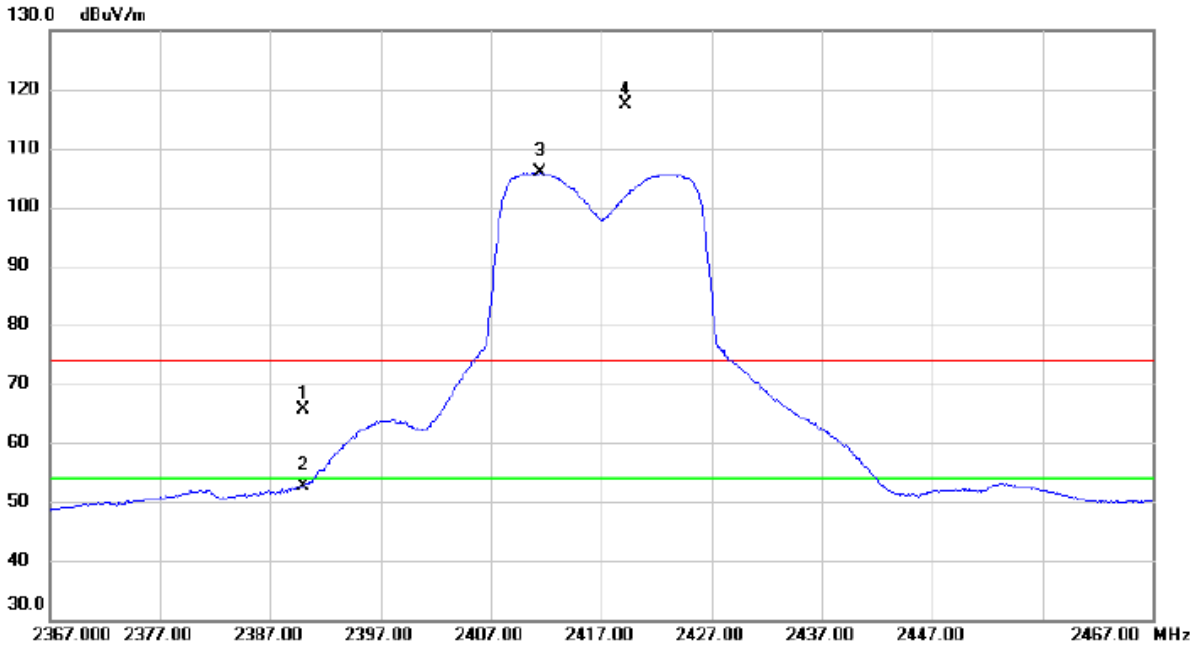
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.4500	28.93	7.68	36.61	54.00	-17.39	AVG	
2	4826.7750	41.78	7.70	49.48	74.00	-24.52	Peak	

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

Test Mode:	TX N-20M Mode 2417 MHz

Vertical

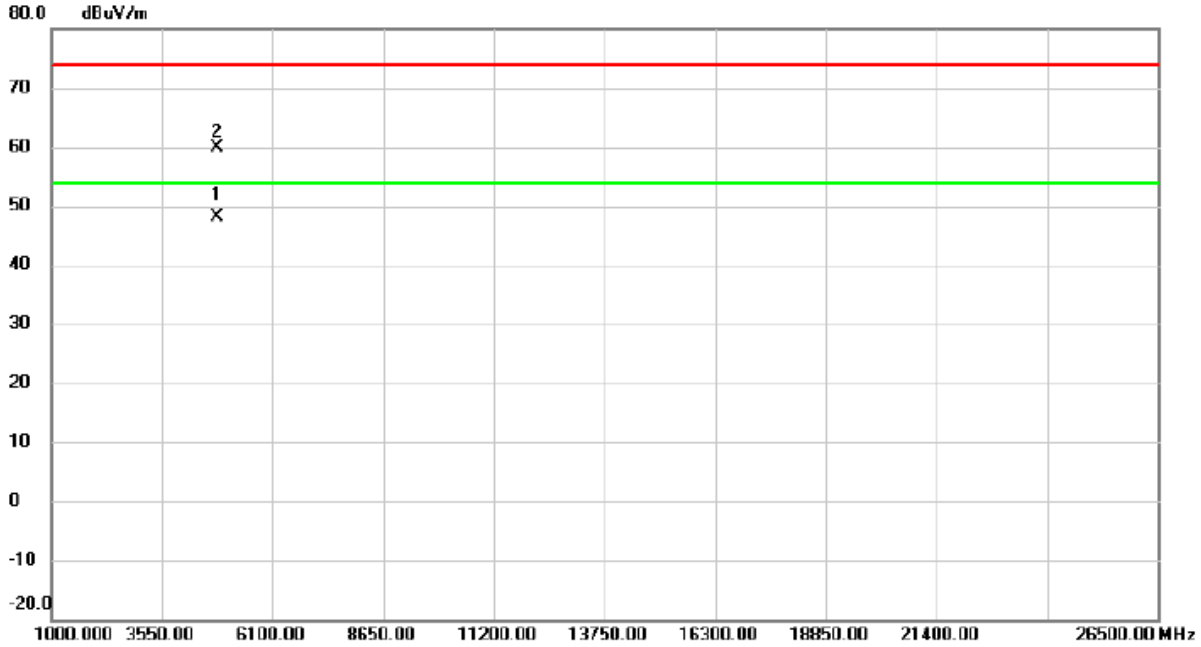


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	55.77	9.95	65.72	74.00	-8.28	peak	
2		2390.000	42.59	9.95	52.54	54.00	-1.46	AVG	
3	*	2411.500	95.76	10.03	105.79	54.00	51.79	AVG	No Limit
4	X	2419.250	107.40	10.06	117.46	74.00	43.46	peak	No Limit

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

Test Mode:	TX N-20M Mode 2417 MHz

Vertical

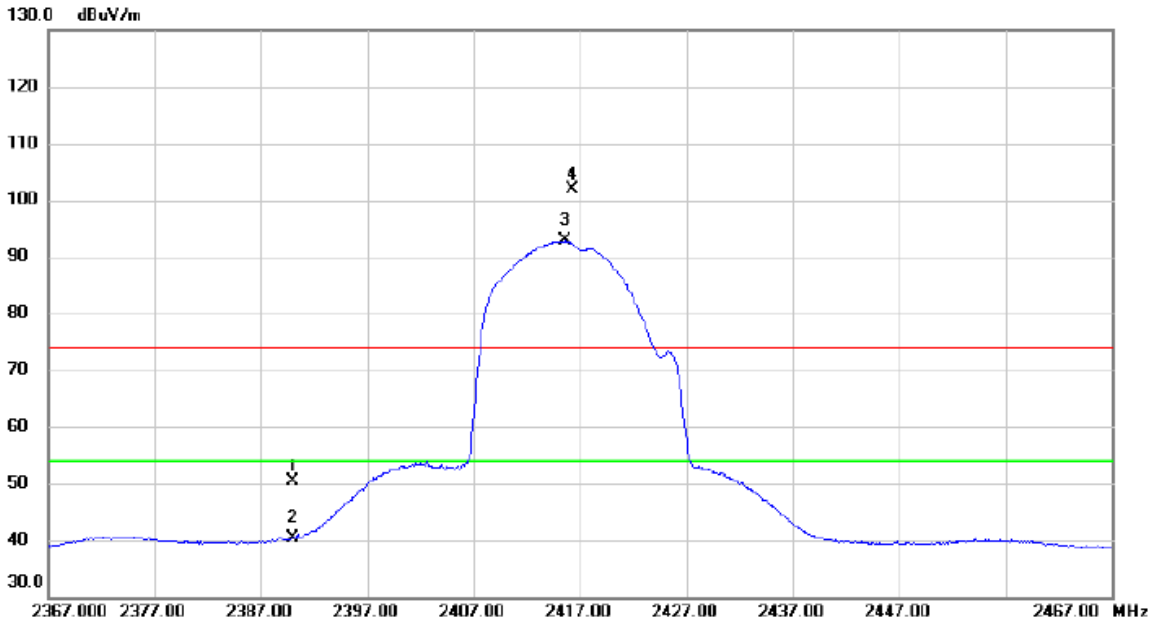


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4832.725	40.42	7.72	48.14	54.00	-5.86	AVG	
2		4832.875	52.27	7.72	59.99	74.00	-14.01	peak	

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

Test Mode:	TX N-20M Mode 2417 MHz

Horizontal

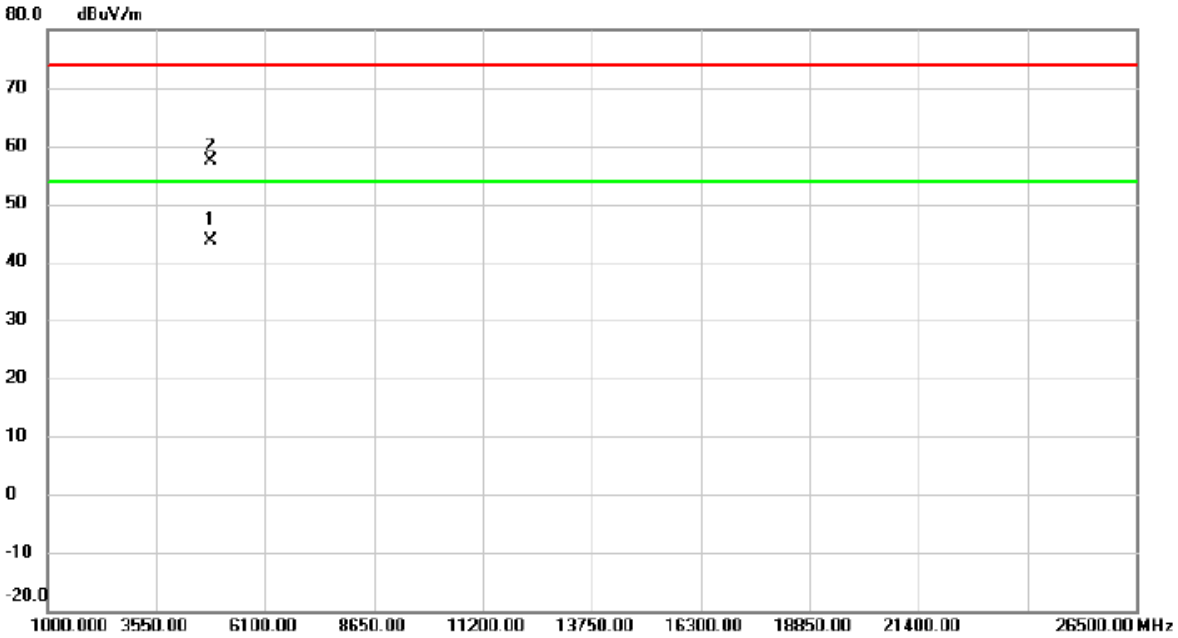


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	40.47	9.95	50.42	74.00	-23.58	peak	
2		2390.000	30.45	9.95	40.40	54.00	-13.60	AVG	
3	*	2415.550	82.77	10.04	92.81	54.00	38.81	AVG	No Limit
4	X	2416.300	91.83	10.05	101.88	74.00	27.88	peak	No Limit

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

Test Mode:	TX N-20M Mode 2417 MHz

Horizontal

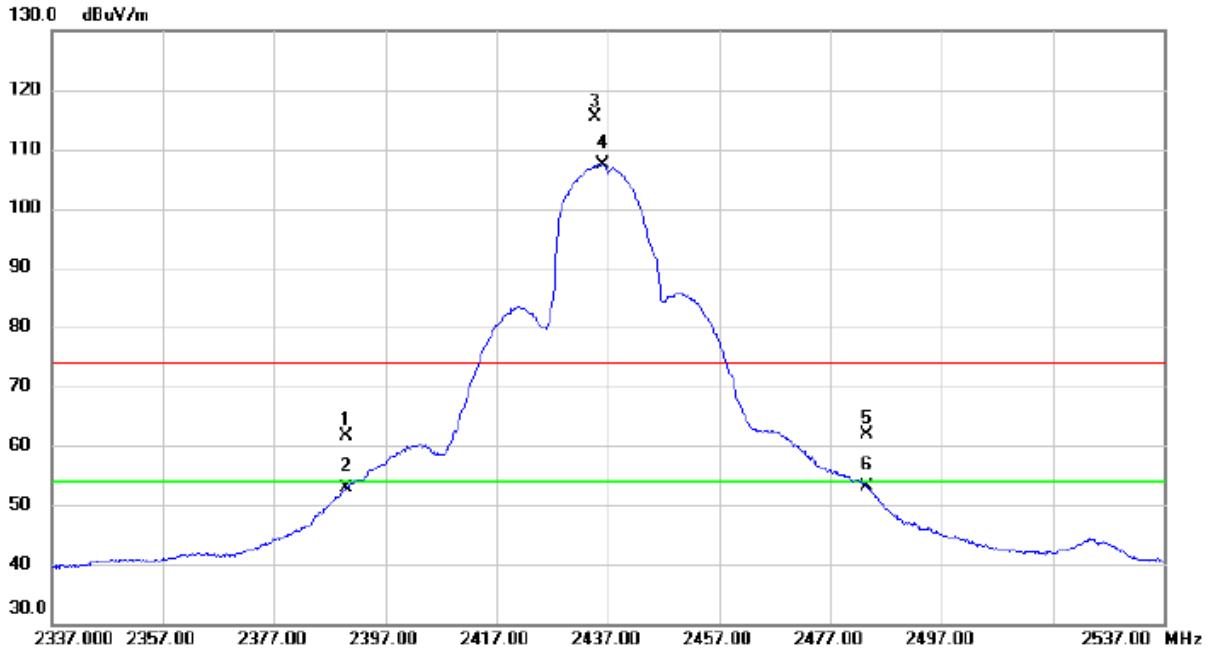


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4831.325	35.82	7.71	43.53	54.00	-10.47	AVG	
2		4833.525	49.76	7.72	57.48	74.00	-16.52	peak	

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

Test Mode:	TX N-20M Mode 2437 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	52.53	9.07	61.60	74.00	-12.40	peak	
2		2390.000	43.78	9.07	52.85	54.00	-1.15	AVG	
3	X	2434.800	106.42	9.05	115.47	74.00	41.47	peak	No Limit
4	*	2436.000	98.33	9.04	107.37	54.00	53.37	AVG	No Limit
5		2483.500	52.74	9.02	61.76	74.00	-12.24	peak	
6		2483.500	44.13	9.02	53.15	54.00	-0.85	AVG	

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

Test Mode:	TX N-20M Mode 2437 MHz

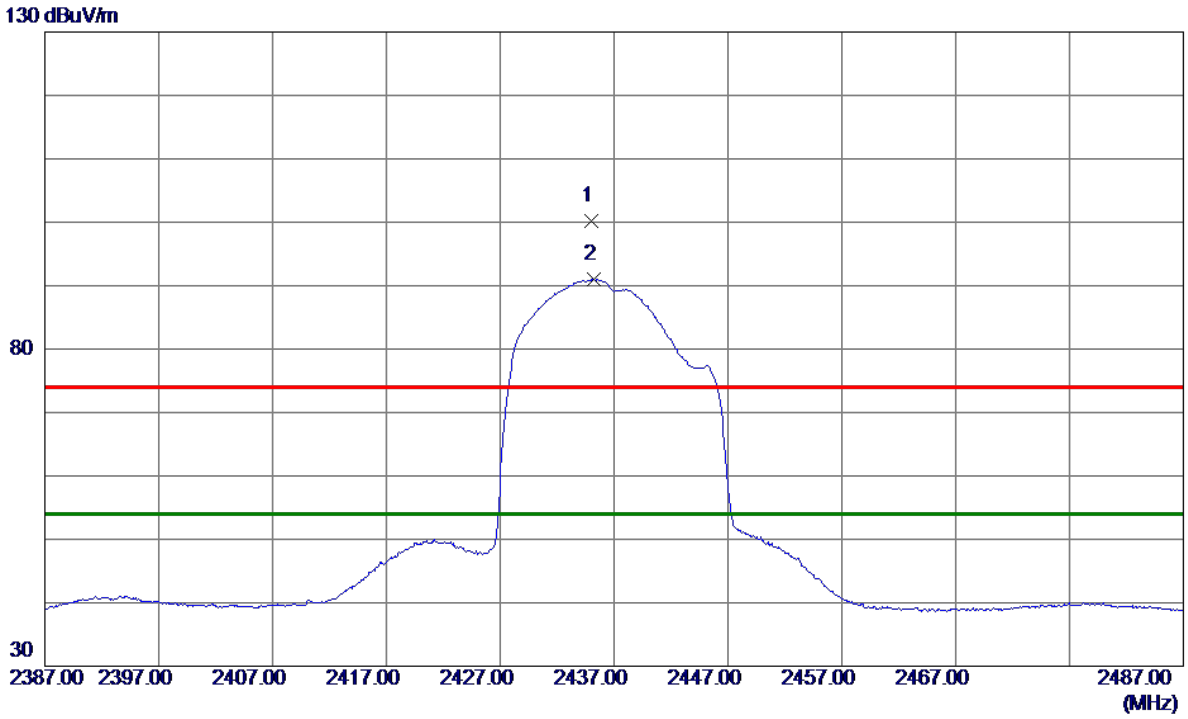
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4871.1250	37.35	7.88	45.23	54.00	-8.77	AVG	
2	4874.6500	52.03	7.89	59.92	74.00	-14.08	Peak	

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

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	2435.0000	90.12	10.12	100.24	74.00	26.24	Peak	No Limit
2 *	2435.2000	80.85	10.12	90.97	54.00	36.97	AVG	No Limit

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

Test Mode:	TX N-20M Mode 2437 MHz

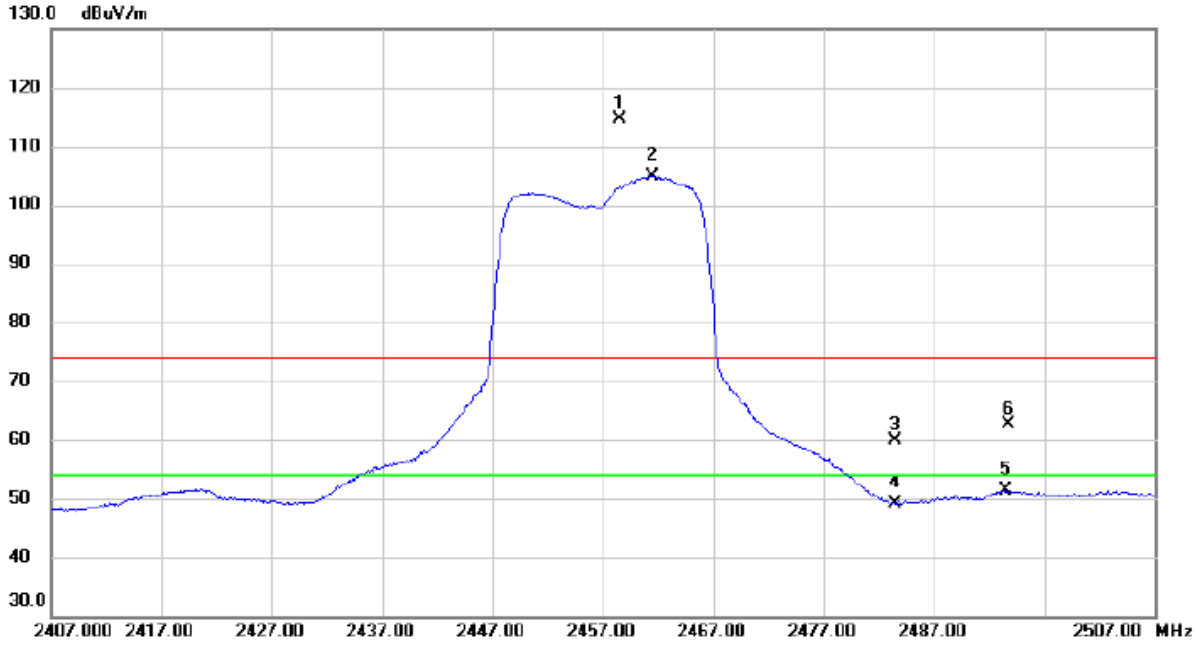
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4877.1750	48.31	7.90	56.21	74.00	-17.79	Peak	
2 *	4878.2000	32.43	7.91	40.34	54.00	-13.66	AVG	

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

Test Mode:	TX N-20M Mode 2457 MHz

Vertical

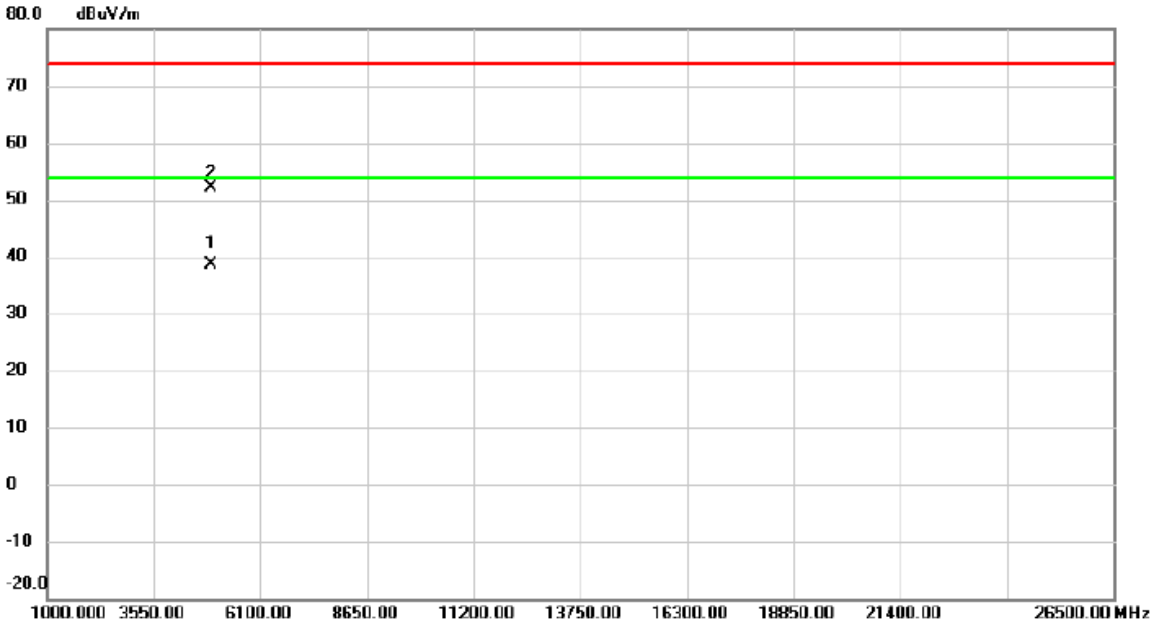


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2458.550	104.55	10.20	114.75	74.00	40.75	peak	No Limit
2	*	2461.400	94.69	10.22	104.91	54.00	50.91	AVG	No Limit
3		2483.500	49.66	10.29	59.95	74.00	-14.05	peak	
4		2483.500	38.96	10.29	49.25	54.00	-4.75	AVG	
5		2493.400	41.07	10.34	51.41	54.00	-2.59	AVG	
6		2493.700	52.38	10.34	62.72	74.00	-11.28	peak	

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

Test Mode:	TX N-20M Mode 2457 MHz

Vertical

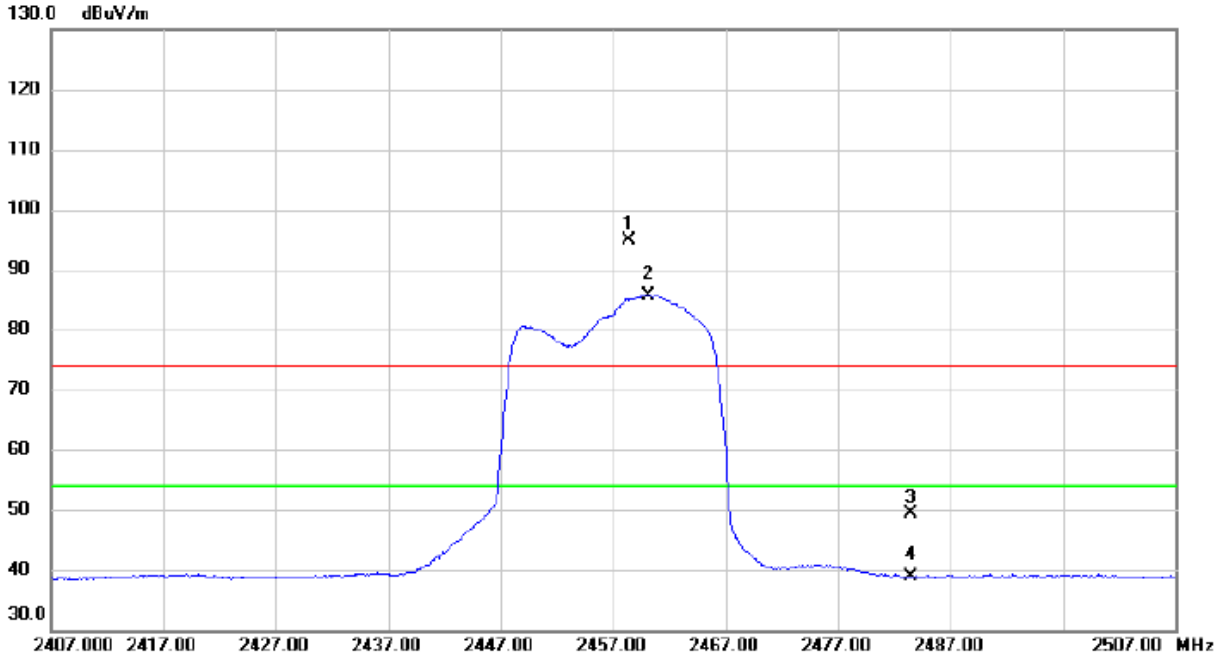


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4913.325	30.65	8.05	38.70	54.00	-15.30	AVG	
2		4915.700	43.99	8.07	52.06	74.00	-21.94	peak	

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

Test Mode:	TX N-20M Mode 2457 MHz

Horizontal

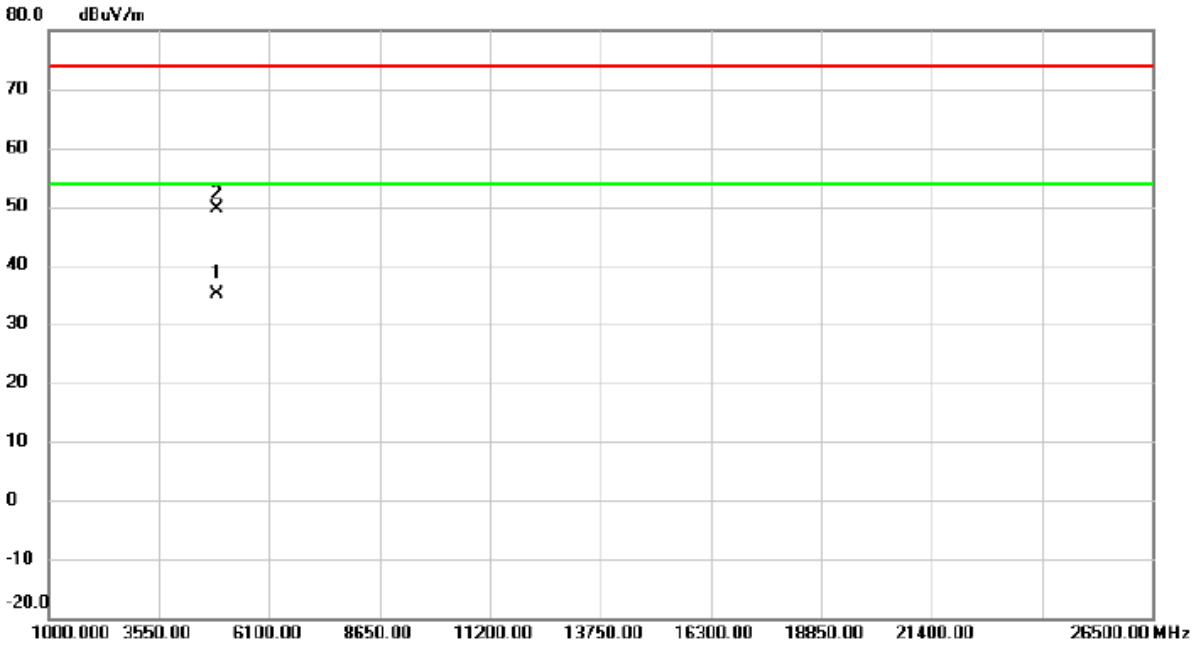


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2458.450	84.80	10.20	95.00	74.00	21.00	peak	No Limit
2	*	2460.150	75.45	10.20	85.65	54.00	31.65	AVG	No Limit
3		2483.500	38.97	10.29	49.26	74.00	-24.74	peak	
4		2483.500	28.66	10.29	38.95	54.00	-15.05	AVG	

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

Test Mode:	TX N-20M Mode 2457 MHz

Horizontal

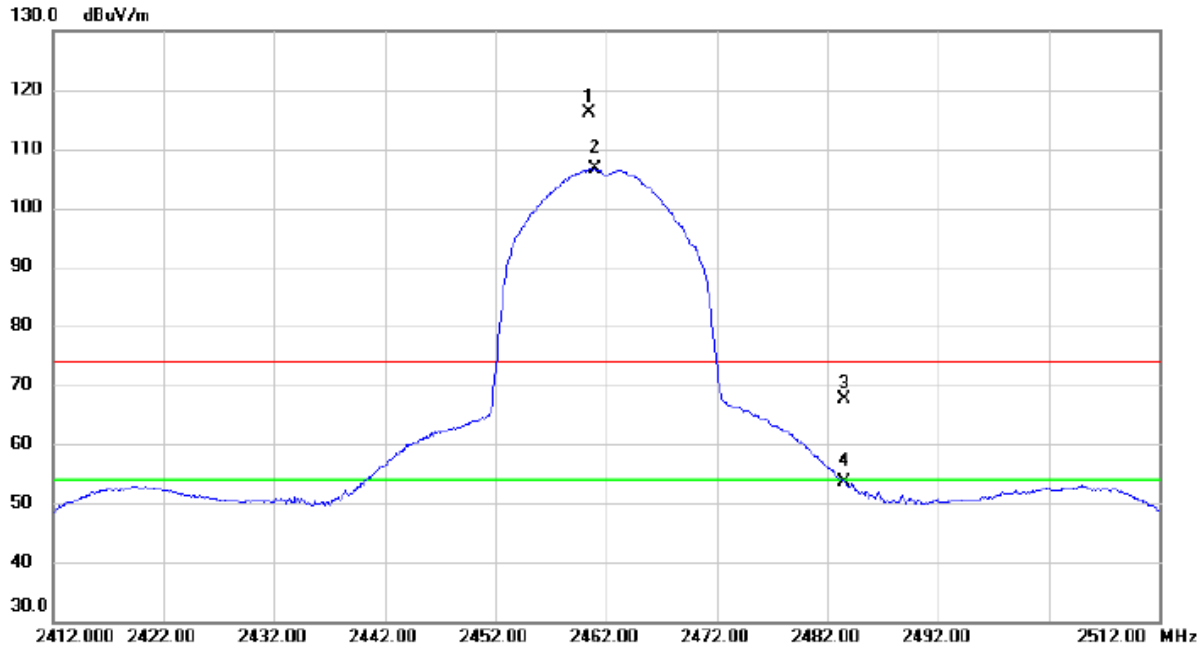


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4908.875	27.15	8.04	35.19	54.00	-18.81	AVG	
2		4909.550	41.68	8.05	49.73	74.00	-24.27	peak	

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

Test Mode:	TX N-20M Mode 2462 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2460.450	105.97	10.20	116.17	74.00	42.17	peak	No Limit
2	*	2460.950	96.53	10.20	106.73	54.00	52.73	AVG	No Limit
3		2483.500	57.40	10.29	67.69	74.00	-6.31	peak	
4		2483.500	43.32	10.29	53.61	54.00	-0.39	AVG	

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

Test Mode:	TX N-20M Mode 2462 MHz

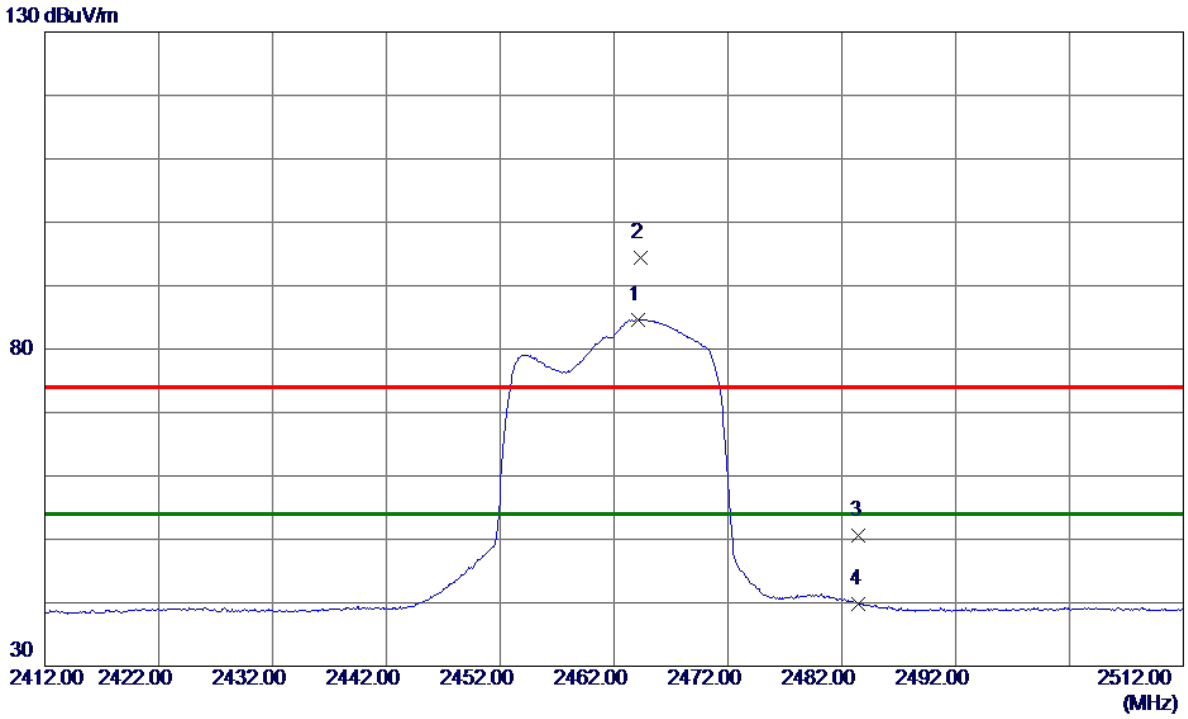
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4922.6750	48.56	8.09	56.65	74.00	-17.35	Peak	
2 *	4922.7750	31.15	8.09	39.24	54.00	-14.76	AVG	

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

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 *	2464.1500	74.43	10.23	84.66	54.00	30.66	AVG	No Limit
2	2464.3000	84.26	10.23	94.49	74.00	20.49	Peak	No Limit
3	2483.5000	40.26	10.30	50.56	74.00	-23.44	Peak	
4	2483.5000	29.48	10.30	39.78	54.00	-14.22	AVG	

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

Test Mode:	TX N-20M Mode 2462 MHz

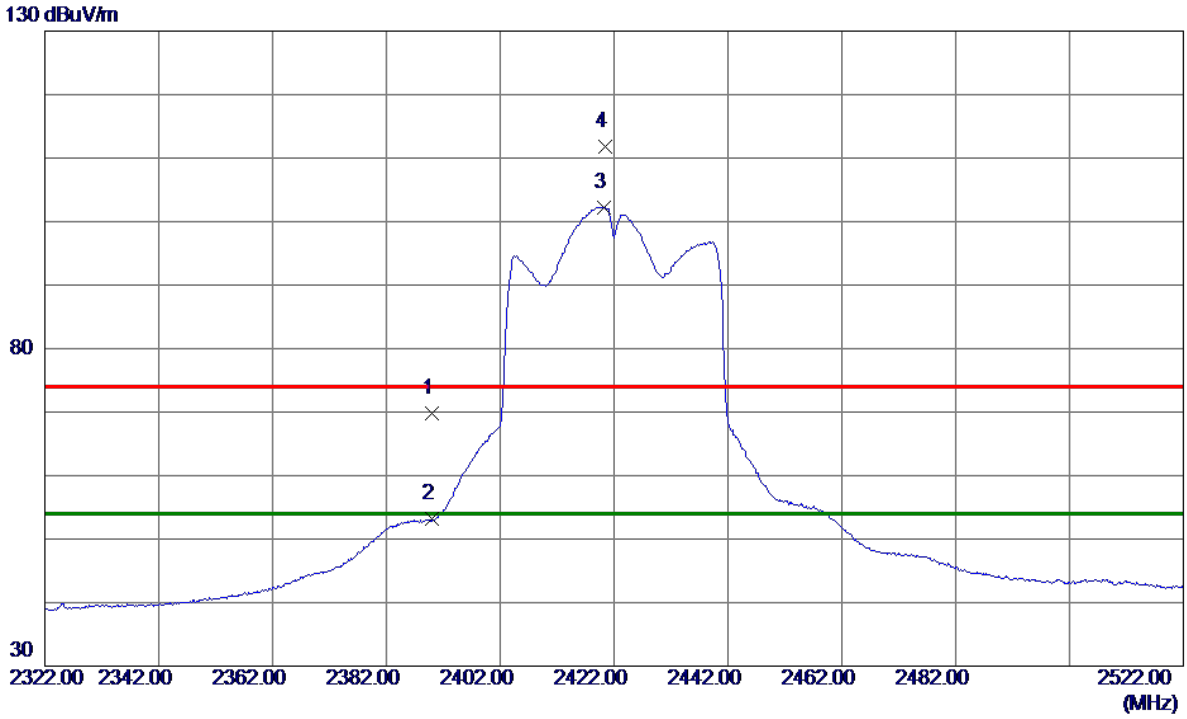
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915.9250	26.22	8.06	34.28	54.00	-19.72	AVG	
2	4919.3000	41.96	8.08	50.04	74.00	-23.96	Peak	

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

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	59.82	9.95	69.77	74.00	-4.23	Peak	
2	2390.0000	43.19	9.95	53.14	54.00	-0.86	AVG	
3 *	2420.2000	92.22	10.06	102.28	54.00	48.28	AVG	No Limit
4	2420.4000	101.70	10.06	111.76	74.00	37.76	Peak	No Limit

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

Test Mode:	TX N-40M Mode 2422MHz

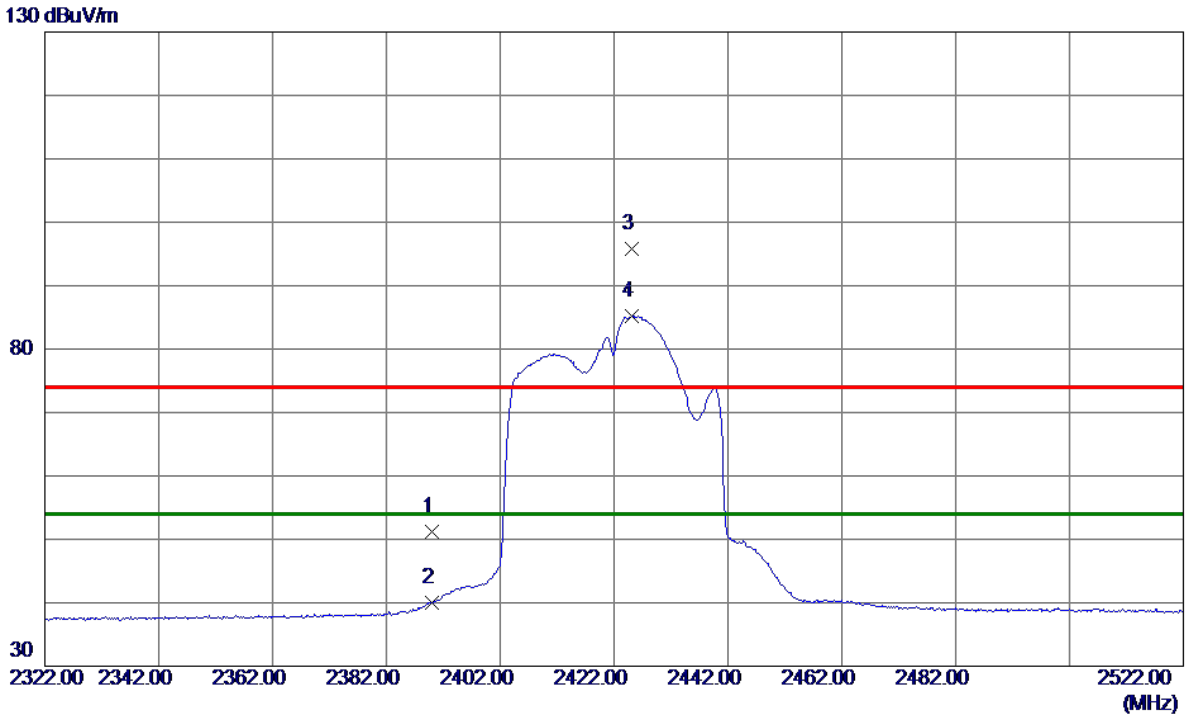
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4842.0000	27.70	7.76	35.46	54.00	-18.54	AVG	
2	4844.1000	38.89	7.77	46.66	74.00	-27.34	Peak	

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

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	41.22	9.95	51.17	74.00	-22.83	Peak	
2	2390.0000	29.96	9.95	39.91	54.00	-14.09	AVG	
3	2425.1000	85.67	10.08	95.75	74.00	21.75	Peak	No Limit
4 *	2425.2000	75.06	10.08	85.14	54.00	31.14	AVG	No Limit

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

Test Mode:	TX N-40M Mode 2422MHz

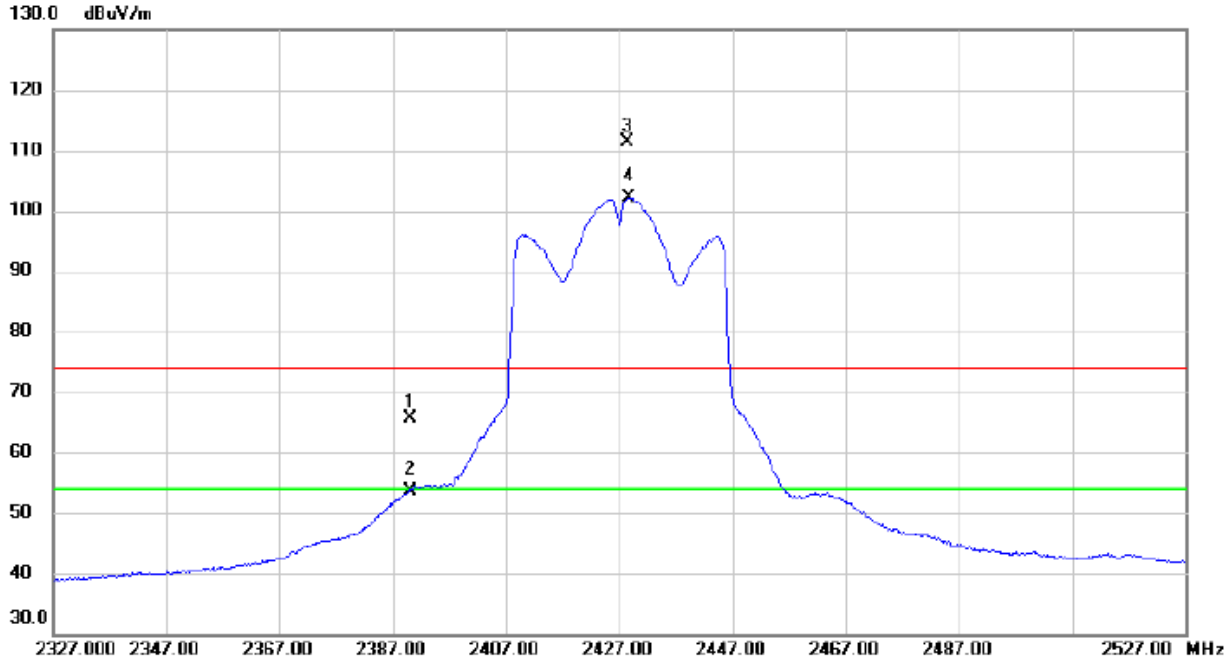
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4815.5500	35.31	7.65	42.96	74.00	-31.04	Peak	
2 *	4835.6500	24.08	7.73	31.81	54.00	-22.19	AVG	

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

Test Mode:	TX N-40M Mode 2427 MHz

Vertical

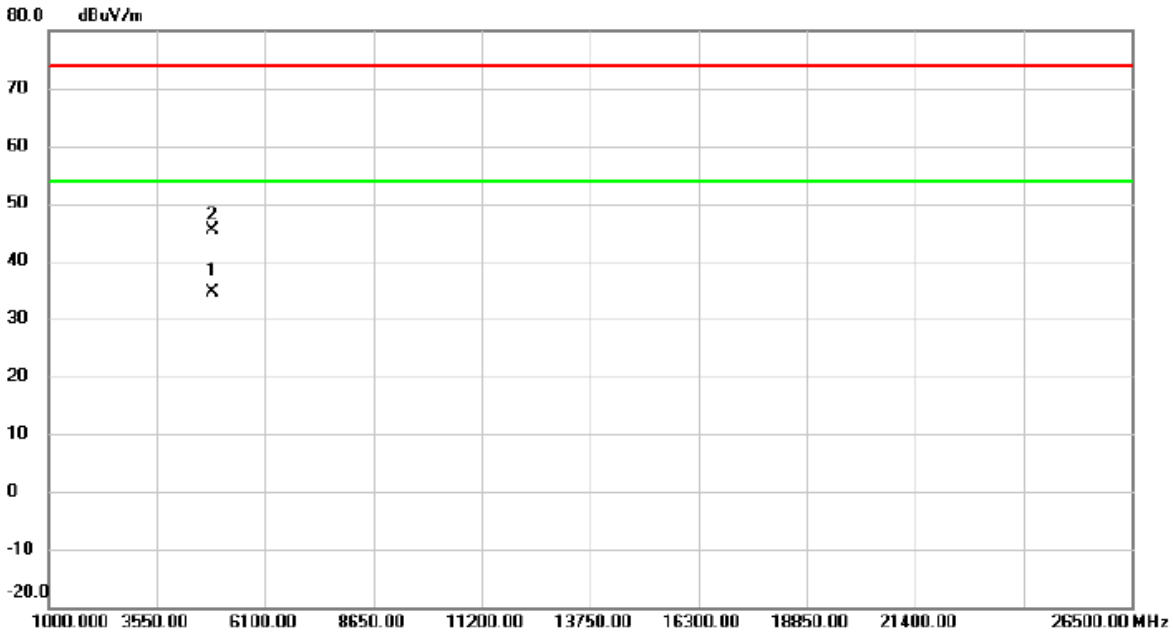


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	55.58	9.95	65.53	74.00	-8.47	peak	
2		2390.000	43.66	9.95	53.61	54.00	-0.39	AVG	
3	X	2428.500	101.23	10.09	111.32	74.00	37.32	peak	No Limit
4	*	2428.700	92.15	10.09	102.24	54.00	48.24	AVG	No Limit

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

Test Mode:	TX N-40M Mode 2427 MHz

Vertical

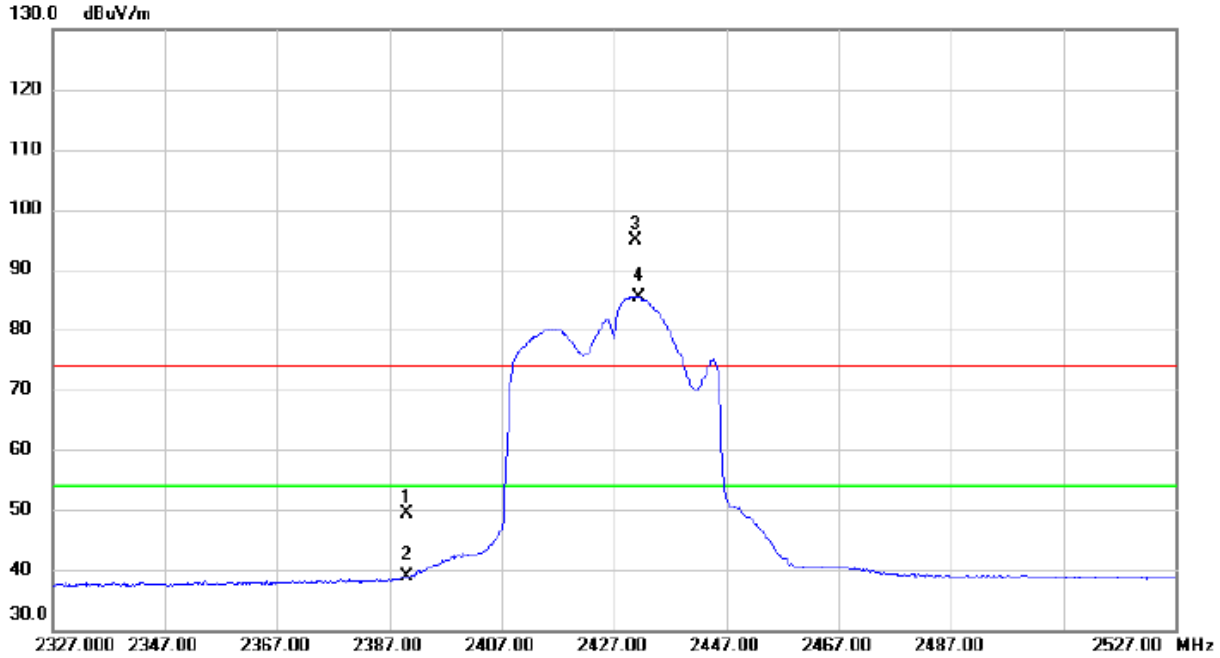


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4852.300	26.77	7.80	34.57	54.00	-19.43	AVG	
2		4854.450	37.45	7.81	45.26	74.00	-28.74	peak	

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

Test Mode:	TX N-40M Mode 2427 MHz

Horizontal

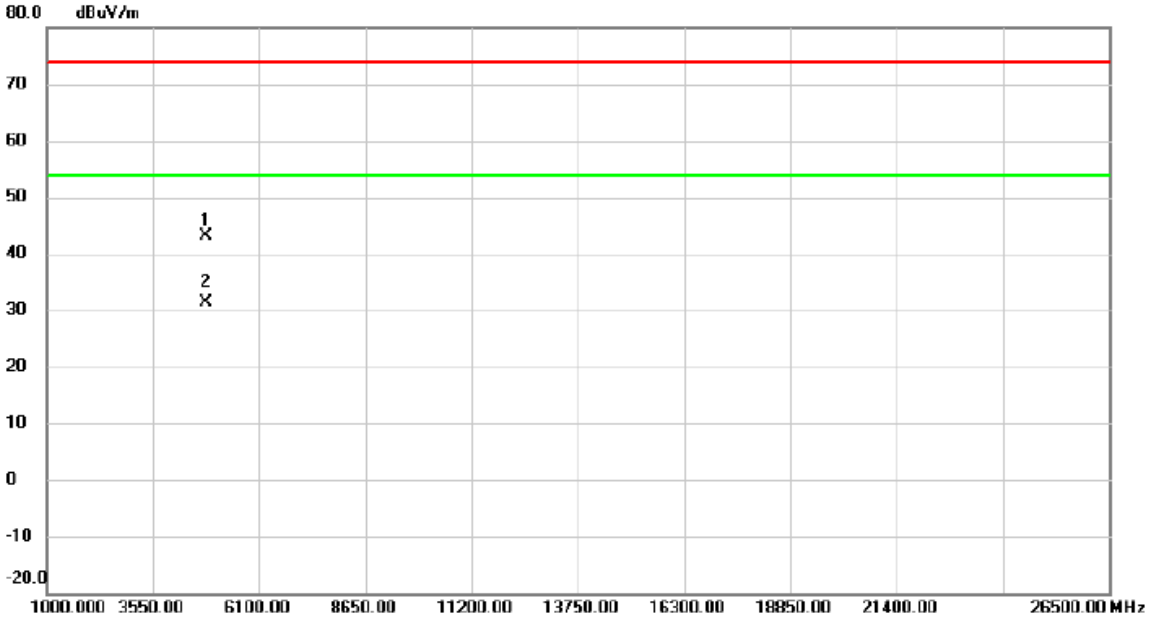


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	39.37	9.95	49.32	74.00	-24.68	peak	
2		2390.000	28.91	9.95	38.86	54.00	-15.14	AVG	
3	X	2430.900	84.85	10.10	94.95	74.00	20.95	peak	No Limit
4	*	2431.500	75.38	10.10	85.48	54.00	31.48	AVG	No Limit

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

Test Mode:	TX N-40M Mode 2427 MHz

Horizontal

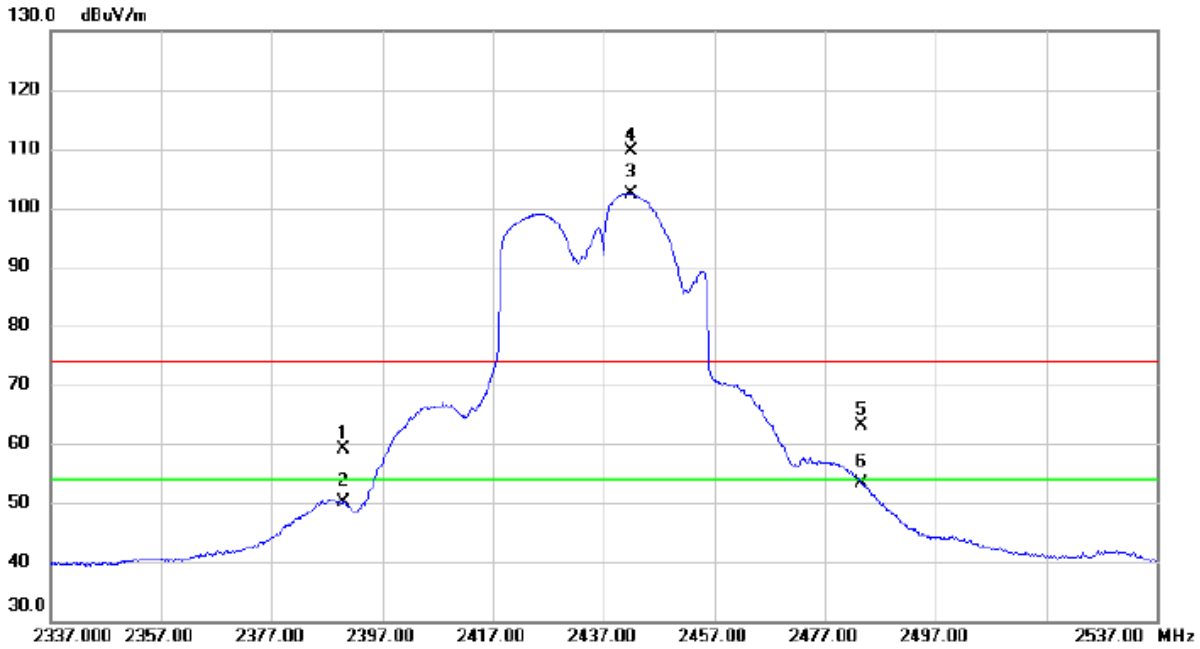


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4832.350	35.51	7.71	43.22	74.00	-30.78	peak	
2	*	4840.900	23.52	7.76	31.28	54.00	-22.72	AVG	

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

Test Mode:	TX N-40M Mode 2437 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	50.14	9.07	59.21	74.00	-14.79	peak	
2		2390.000	41.12	9.07	50.19	54.00	-3.81	AVG	
3	*	2441.800	93.42	9.04	102.46	54.00	48.46	AVG	No Limit
4	X	2442.000	100.66	9.04	109.70	74.00	35.70	peak	No Limit
5		2483.500	54.06	9.02	63.08	74.00	-10.92	peak	
6		2483.500	44.25	9.02	53.27	54.00	-0.73	AVG	

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

Test Mode:	TX N-40M Mode 2437 MHz

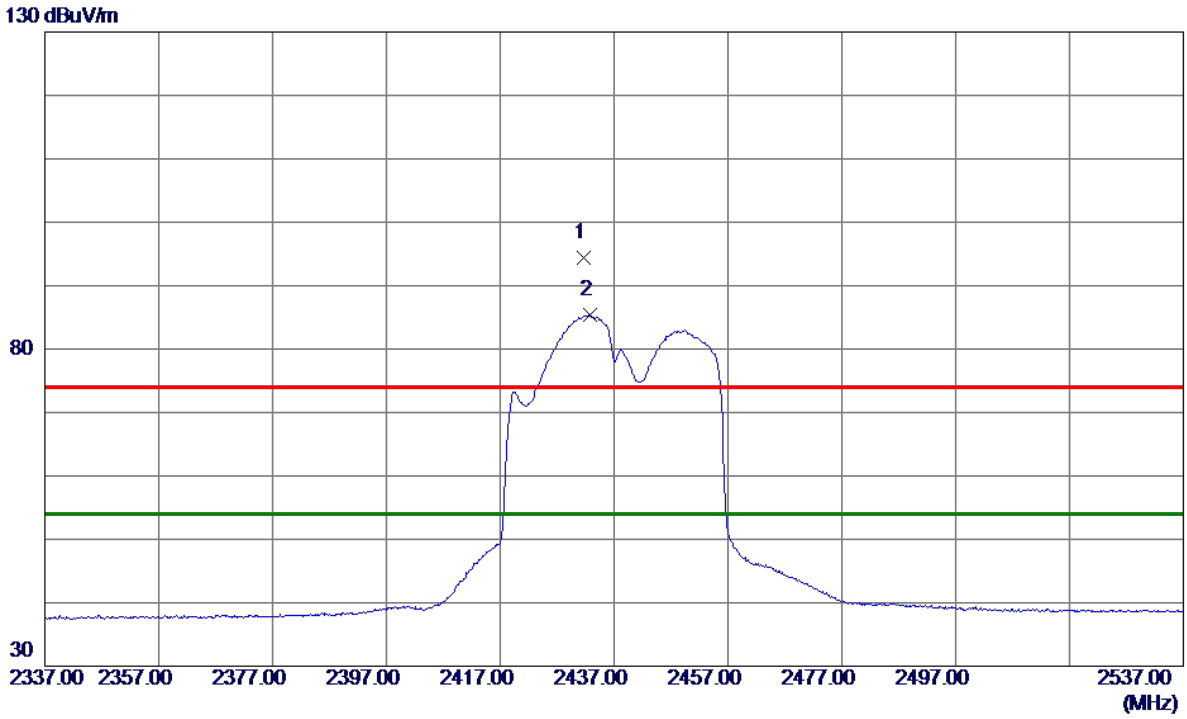
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4870.4500	37.44	7.88	45.32	74.00	-28.68	Peak	
2 *	4873.7000	26.53	7.89	34.42	54.00	-19.58	AVG	

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

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	2431.6000	84.37	10.10	94.47	74.00	20.47	Peak	No Limit
2 *	2432.7000	75.34	10.11	85.45	54.00	31.45	AVG	No Limit

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

Test Mode:	TX N-40M Mode 2437 MHz

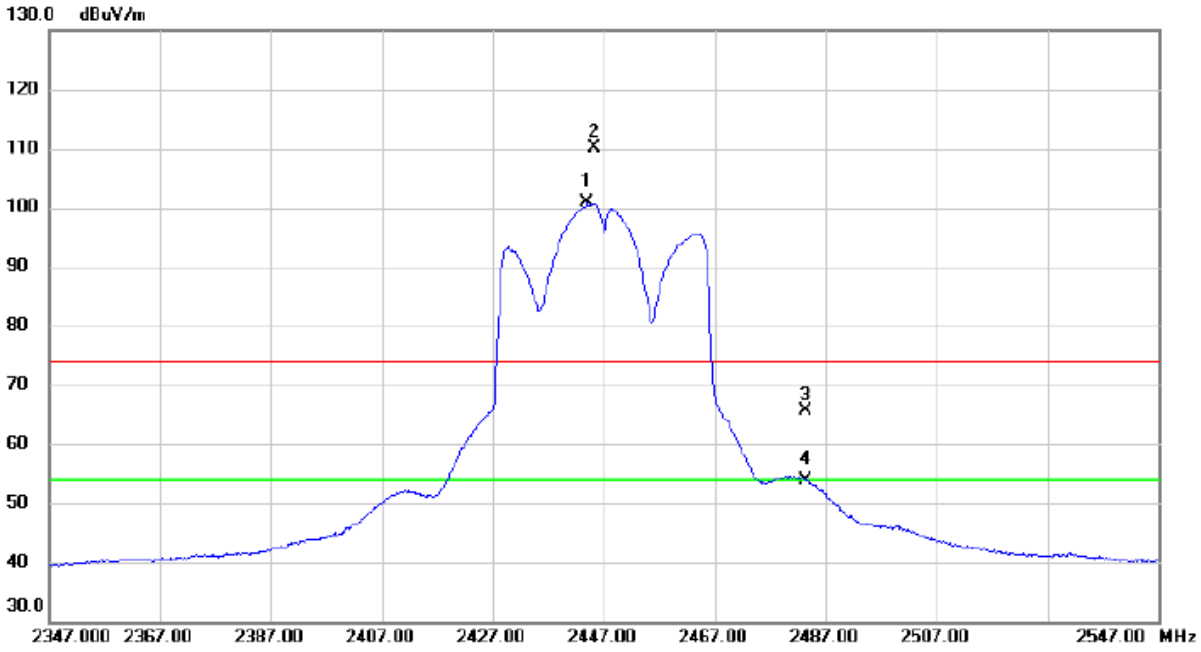
Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4877.5000	23.99	7.91	31.90	54.00	-22.10	AVG	
2	4879.8500	36.66	7.92	44.58	74.00	-29.42	Peak	

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

Test Mode:	TX N-40M Mode 2447 MHz

Vertical

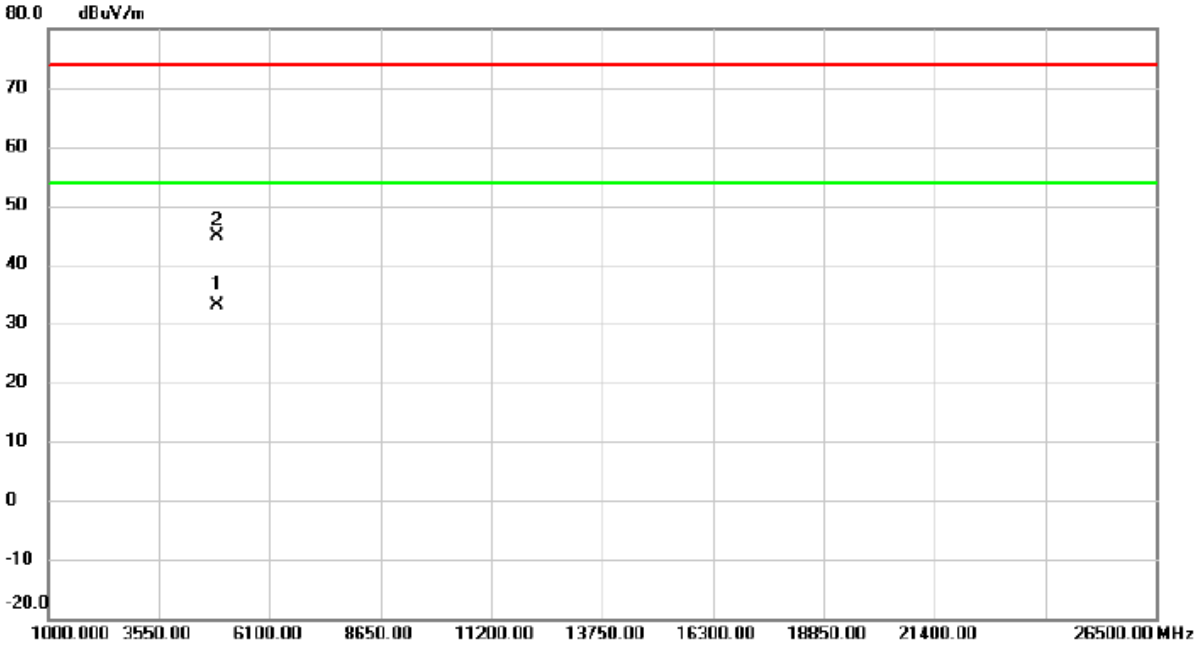


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2444.000	90.61	10.16	100.77	54.00	46.77	AVG	No Limit
2	X	2445.300	99.99	10.16	110.15	74.00	36.15	peak	No Limit
3		2483.500	55.37	10.29	65.66	74.00	-8.34	peak	
4		2483.500	43.50	10.29	53.79	54.00	-0.21	AVG	

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

Test Mode:	TX N-40M Mode 2447 MHz

Vertical

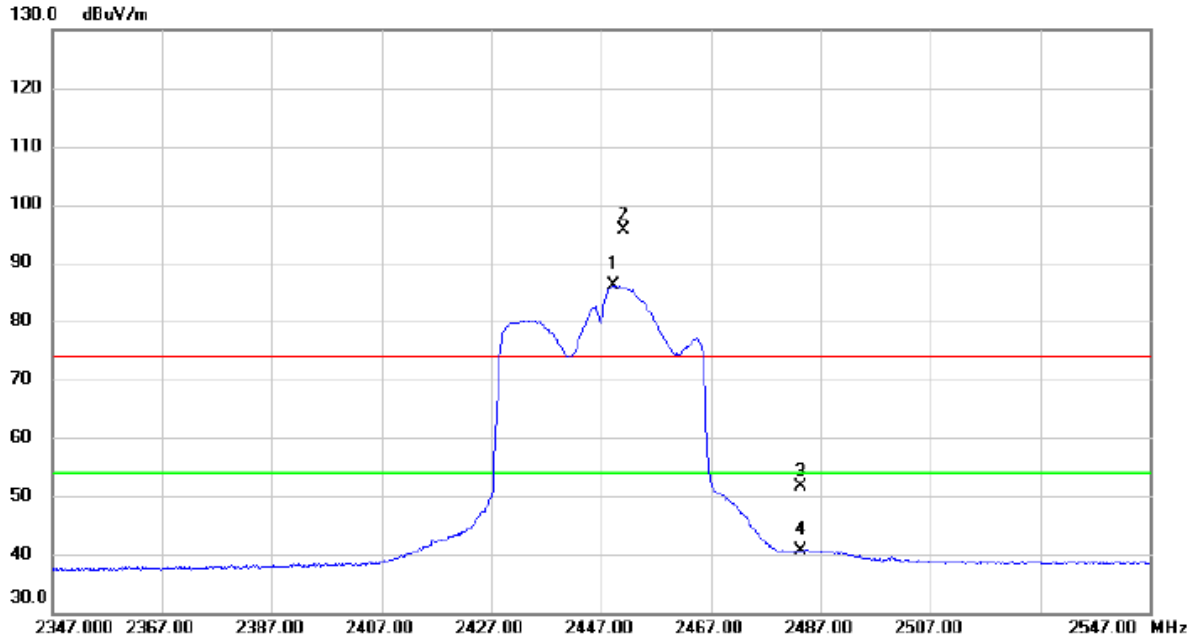


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4892.700	25.26	7.97	33.23	54.00	-20.77	AVG	
2		4894.550	36.85	7.97	44.82	74.00	-29.18	peak	

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

Test Mode:	TX N-40M Mode 2447 MHz

Horizontal

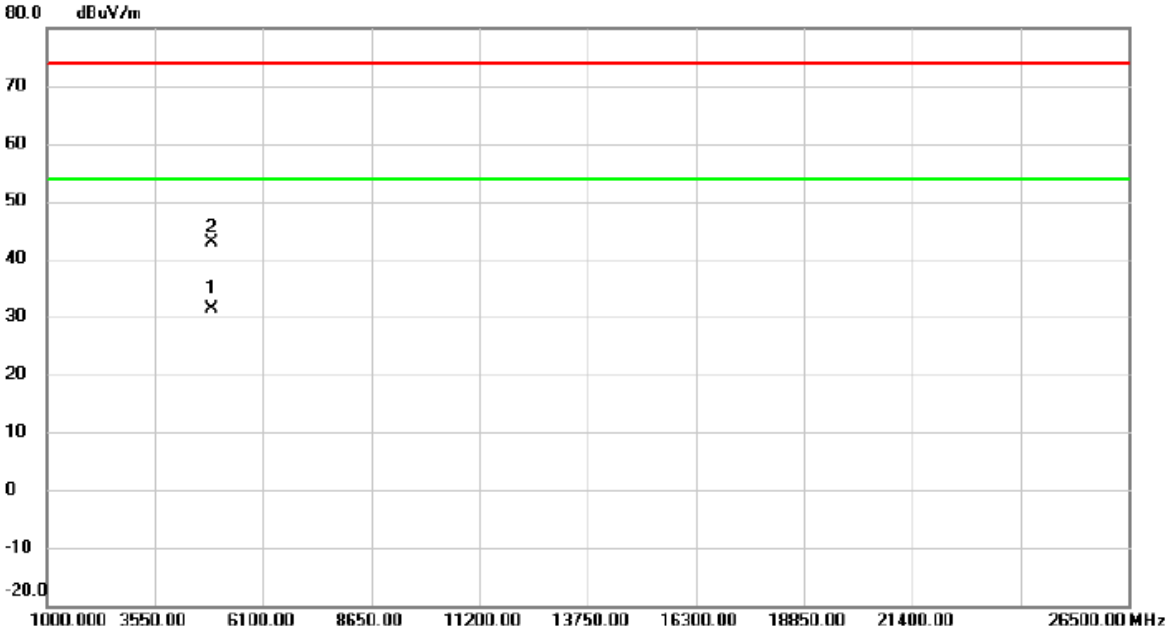


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2449.300	75.98	10.17	86.15	54.00	32.15	AVG	No Limit
2	X	2451.200	85.36	10.17	95.53	74.00	21.53	peak	No Limit
3		2483.500	41.32	10.29	51.61	74.00	-22.39	peak	
4		2483.500	30.41	10.29	40.70	54.00	-13.30	AVG	

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

Test Mode:	TX N-40M Mode 2447 MHz

Horizontal

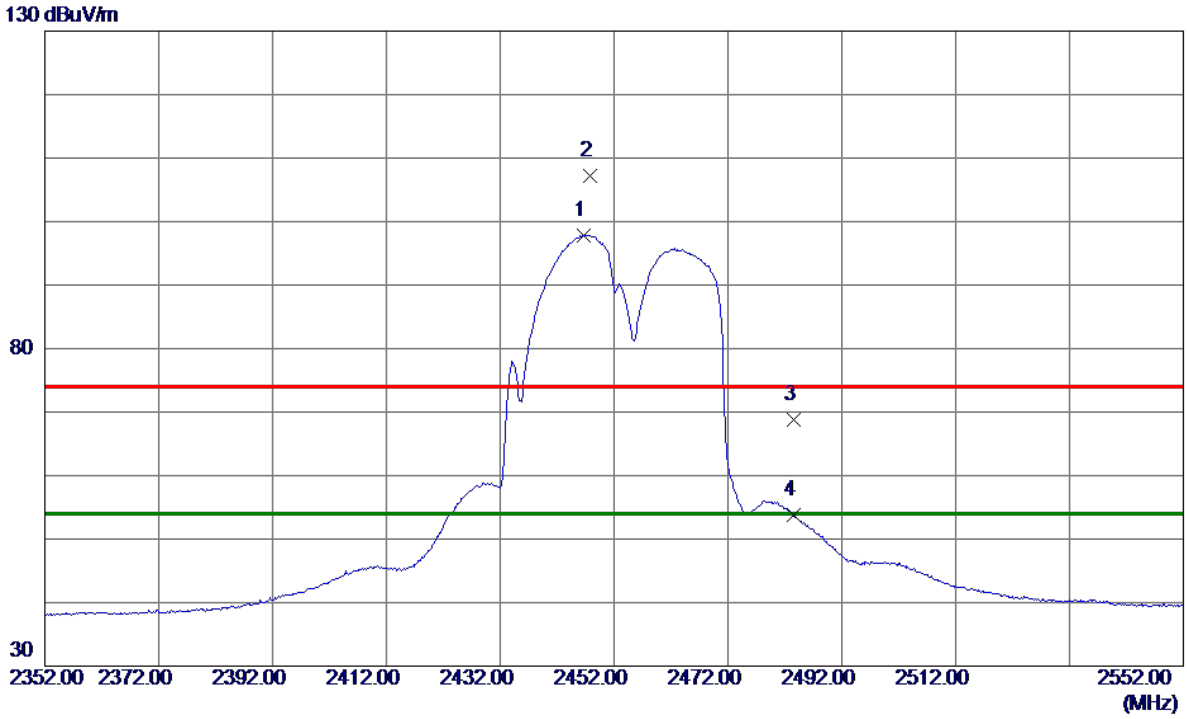


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4898.200	23.32	8.00	31.32	54.00	-22.68	AVG	
2		4899.650	34.81	8.00	42.81	74.00	-31.19	peak	

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

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 *	2446.6000	87.67	10.16	97.83	54.00	43.83	AVG	No Limit
2	2447.7000	97.10	10.16	107.26	74.00	33.26	Peak	No Limit
3	2483.5000	58.42	10.30	68.72	74.00	-5.28	Peak	
4	2483.5000	43.52	10.30	53.82	54.00	-0.18	AVG	

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

Test Mode:	TX N-40M Mode 2452 MHz

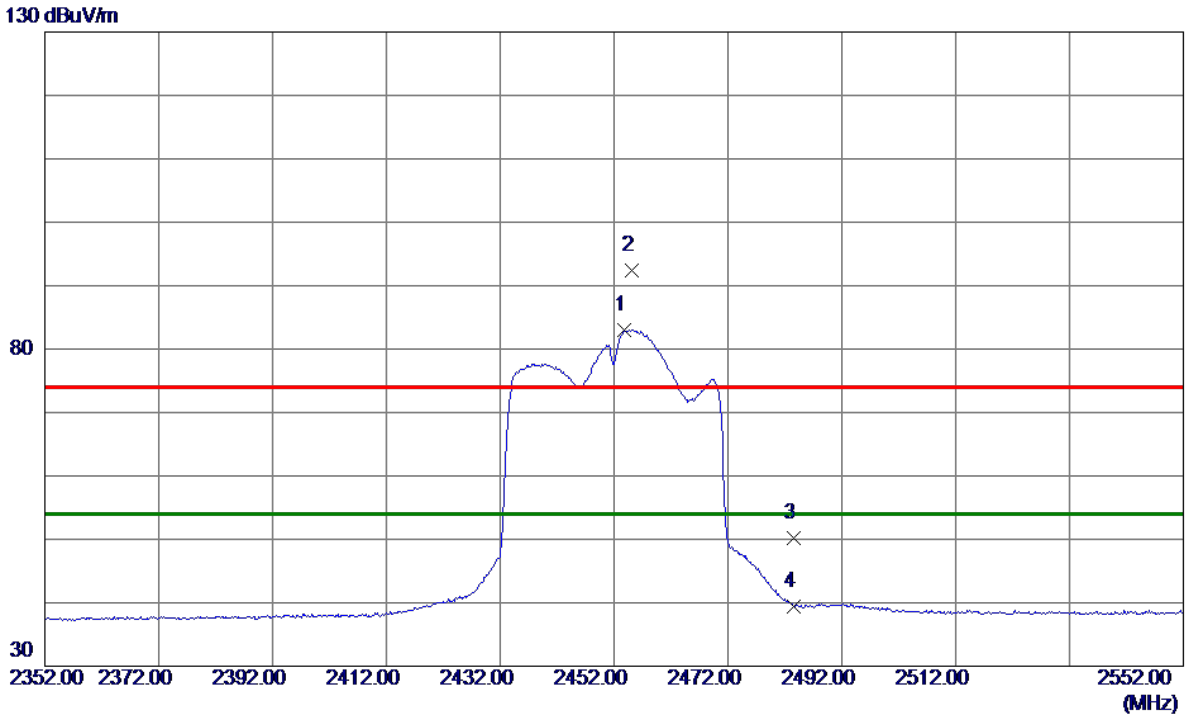
Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4896.8000	35.34	7.98	43.32	74.00	-30.68	Peak	
2 *	4901.2000	23.12	8.00	31.12	54.00	-22.88	AVG	

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

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 *	2453.8000	72.84	10.19	83.03	54.00	29.03	AVG	No Limit
2	2455.1000	82.30	10.19	92.49	74.00	18.49	Peak	No Limit
3	2483.5000	39.88	10.30	50.18	74.00	-23.82	Peak	
4	2483.5000	29.17	10.30	39.47	54.00	-14.53	AVG	

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

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	4897.5200	36.23	7.99	44.22	74.00	-29.78	Peak	
2 *	4899.3400	22.43	8.00	30.43	54.00	-23.57	AVG	

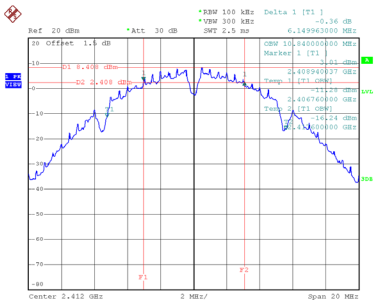
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode

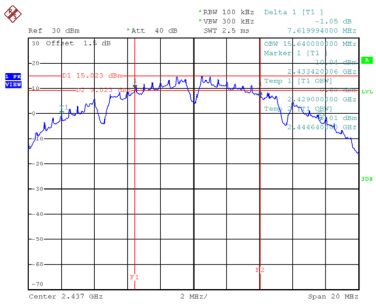
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	6.15	500	Complies
06	2437	7.62	500	Complies
11	2462	6.15	500	Complies

CH01



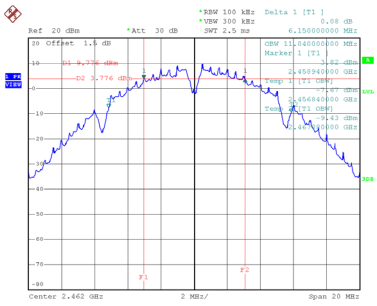
Date: 25.DEC.2019 10:31:06

CH06



Date: 17.JAN.2020 14:13:12

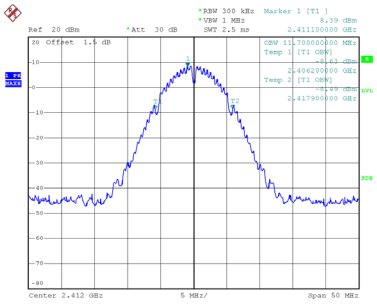
CH11



Date: 25.DEC.2019 10:45:28

Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	11.70	Complies
06	2437	16.60	Complies
11	2462	11.90	Complies

CH01



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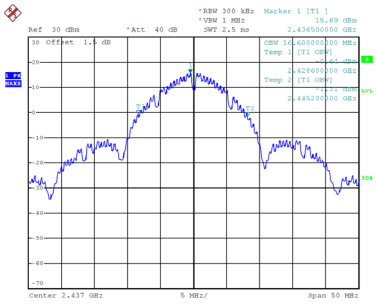
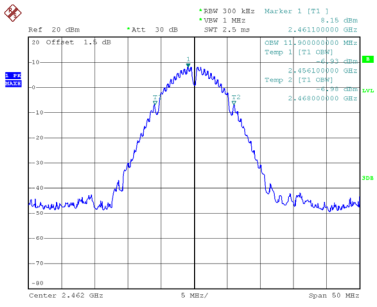
CH06



Date: 17.JAN.2020 14:18:18

CH11

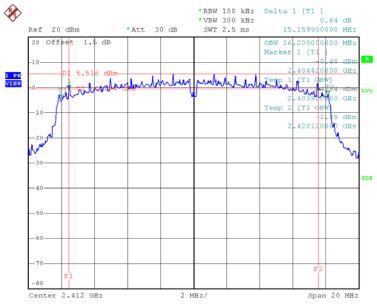


Date: 25.DEC.2019 15:01:00

Test Mode	TX G Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	15.16	500	Complies
06	2437	15.16	500	Complies
11	2462	13.82	500	Complies

CH01



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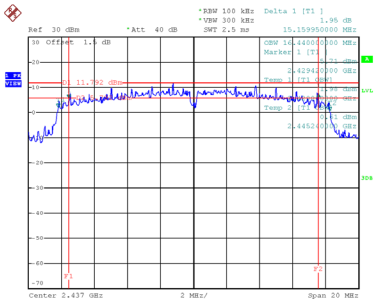
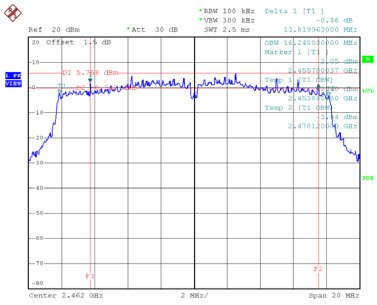
CH06



Date: 17.JAN.2020 13:40:11

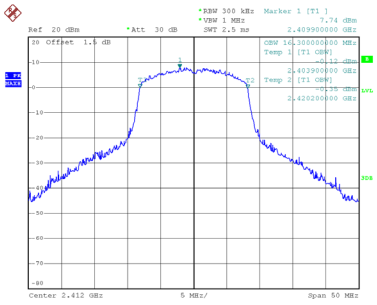
CH11



Date: 25.DEC.2019 13:59:32

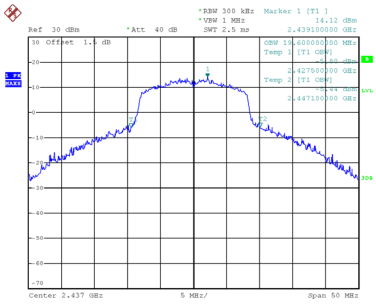
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.30	Complies
06	2437	19.60	Complies
11	2462	16.40	Complies

CH01



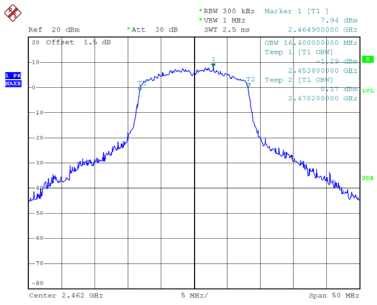
Date: 25.DEC.2019 15:13:18

CH06



Date: 17.JAN.2020 14:17:56

CH11

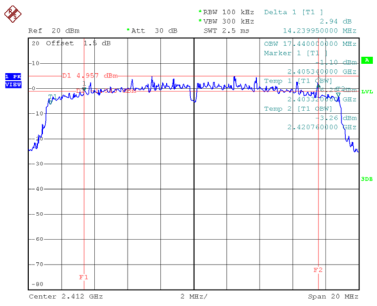


Date: 25.DEC.2019 15:21:51

Test Mode	TX N-20M Mode

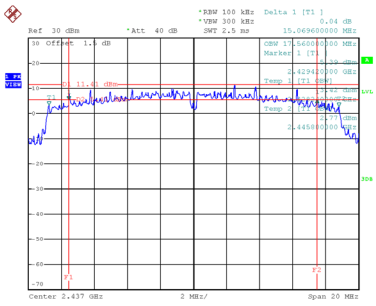
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	14.24	500	Complies
06	2437	15.07	500	Complies
11	2462	15.04	500	Complies

CH01



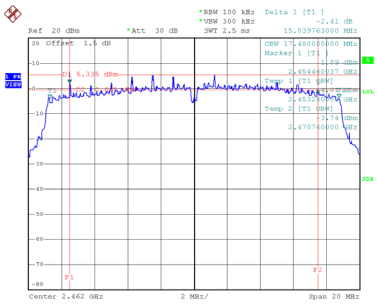
Date: 25.DEC.2019 14:01:18

CH06



Date: 17.JAN.2020 13:42:07

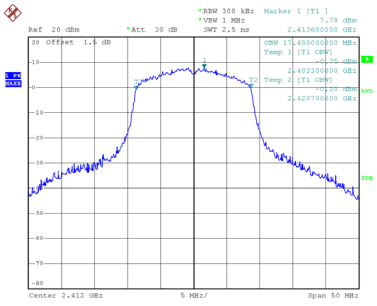
CH11



Date: 25.DEC.2019 14:14:14

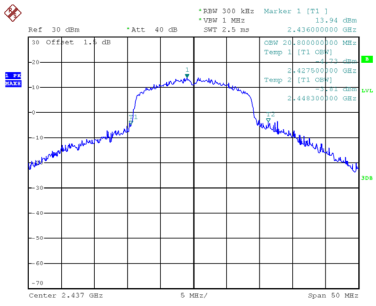
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.40	Complies
06	2437	20.80	Complies
11	2462	17.40	Complies

CH01



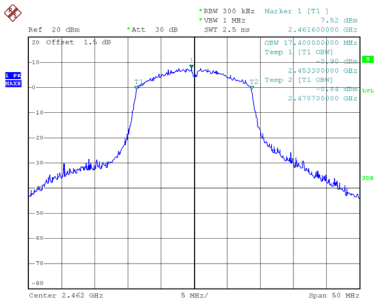
Date: 25.DEC.2019 15:24:15

CH06



Date: 17.JAN.2020 14:18:41

CH11

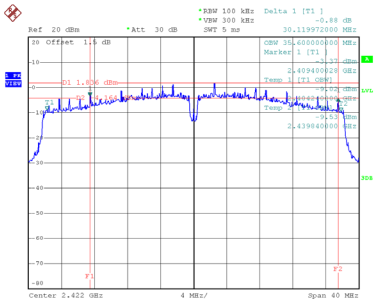


Date: 25.DEC.2019 15:38:31

Test Mode	TX N-40M Mode

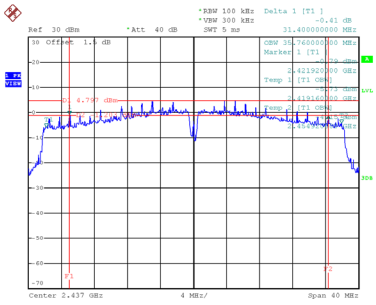
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	30.12	500	Complies
06	2437	31.40	500	Complies
09	2452	30.16	500	Complies

CH03



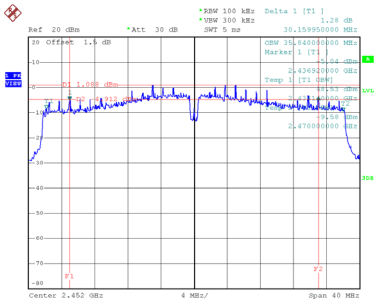
Date: 25.DEC.2019 14:16:06

CH06



Date: 17.JAN.2020 13:46:07

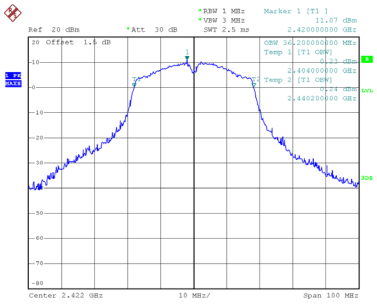
CH09



Date: 25.DEC.2019 14:27:15

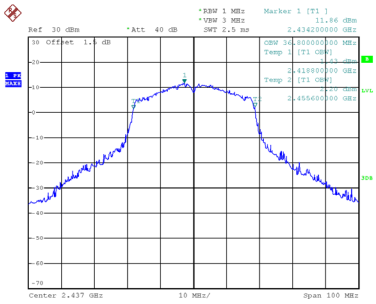
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	36.20	Complies
06	2437	36.80	Complies
09	2452	36.40	Complies

CH03



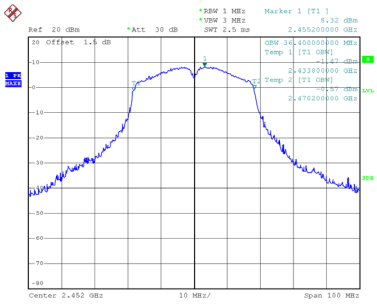
Date: 25.DEC.2019 15:43:26

CH06



Date: 17.JAN.2020 14:19:15

CH09



Date: 25.DEC.2019 15:48:45

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.59	0.00	13.59	30.00	1.0000	Complies
06	2437	22.84	0.00	22.84	30.00	1.0000	Complies
11	2462	13.79	0.00	13.79	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.02	0.00	14.02	30.00	1.0000	Complies
06	2437	23.75	0.00	23.75	30.00	1.0000	Complies
11	2462	14.76	0.00	14.76	30.00	1.0000	Complies

Test Mode	TX B Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.82	28.12	0.6500	Complies
06	2437	26.33	28.12	0.6500	Complies
11	2462	17.31	28.12	0.6500	Complies

Test Mode	TX G Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.15	0.12	14.27	30.00	1.0000	Complies
06	2437	20.13	0.12	20.25	30.00	1.0000	Complies
11	2462	13.27	0.12	13.39	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.82	0.12	14.94	30.00	1.0000	Complies
06	2437	20.91	0.12	21.03	30.00	1.0000	Complies
11	2462	14.39	0.12	14.51	30.00	1.0000	Complies

Test Mode	TX G Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.63	28.12	0.6500	Complies
06	2437	23.67	28.12	0.6500	Complies
11	2462	16.99	28.12	0.6500	Complies

Test Mode	TX N-20M Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.76	0.14	13.90	30.00	1.0000	Complies
06	2437	20.26	0.14	20.40	30.00	1.0000	Complies
11	2462	12.82	0.14	12.96	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.26	0.14	15.40	30.00	1.0000	Complies
06	2437	21.38	0.14	21.52	30.00	1.0000	Complies
11	2462	14.53	0.14	14.67	30.00	1.0000	Complies

Test Mode	TX N-20M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.72	28.12	0.6500	Complies
06	2437	24.00	28.12	0.6500	Complies
11	2462	16.90	28.12	0.6500	Complies

Test Mode	TX N-40M Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	11.98	0.21	12.19	30.00	1.0000	Complies
06	2437	15.08	0.21	15.29	30.00	1.0000	Complies
09	2452	12.57	0.21	12.78	30.00	1.0000	Complies

Test Mode	TX N-40M Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	12.98	0.21	13.19	30.00	1.0000	Complies
06	2437	15.94	0.21	16.15	30.00	1.0000	Complies
09	2452	13.25	0.21	13.46	30.00	1.0000	Complies

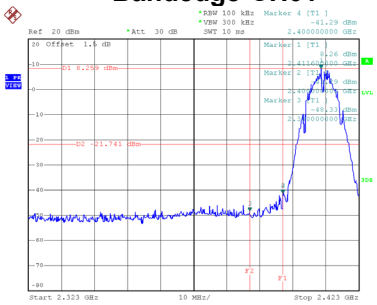
Test Mode	TX N-40M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.73	28.12	0.6500	Complies
06	2437	18.75	28.12	0.6500	Complies
09	2452	16.14	28.12	0.6500	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

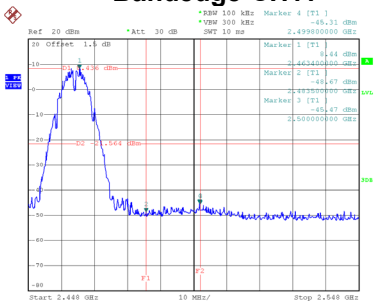
Test Mode	TX B Mode_Ant. 1

Bandedge-CH01



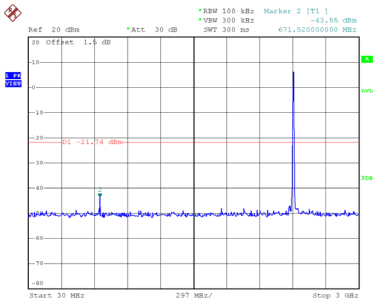
Date: 25.DEC.2019 10:31:14

Bandedge-CH11

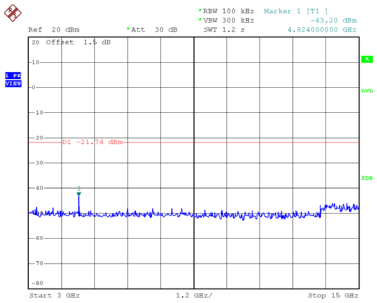


Date: 25.DEC.2019 10:45:37

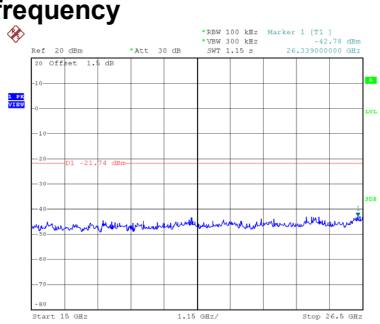
CH01 – 10th Harmonic of the fundamental frequency



Date: 25.DEC.2019 10:31:29

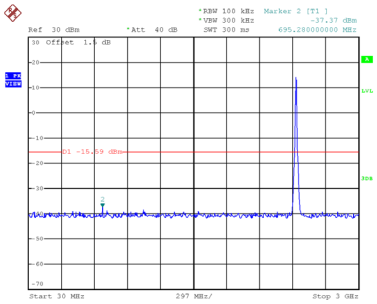


Date: 25.DEC.2019 10:31:37

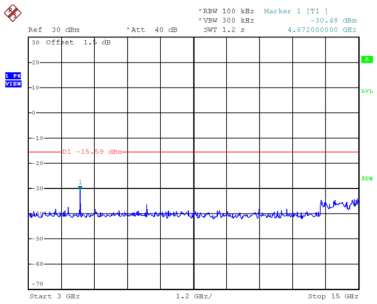


Date: 25.DEC.2019 10:31:46

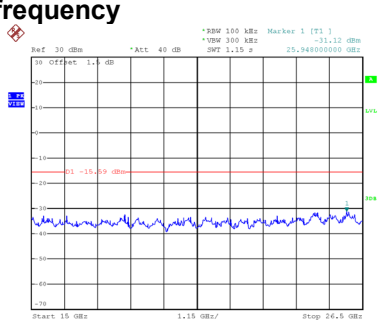
CH06 – 10th Harmonic of the fundamental frequency



Date: 17.JAN.2020 14:13:34

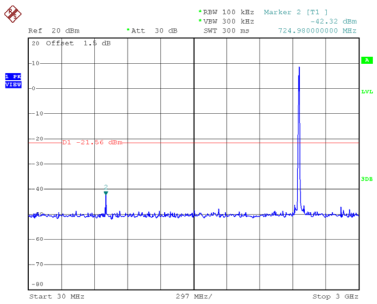


Date: 17.JAN.2020 14:13:42

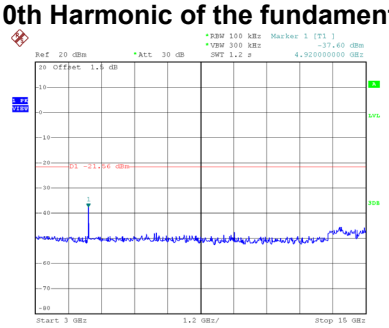


Date: 17.JAN.2020 14:13:50

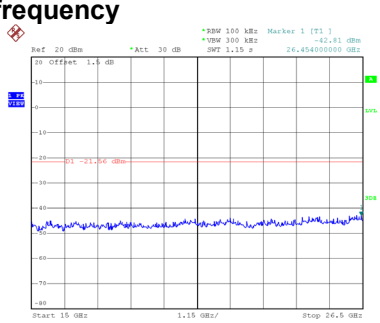
CH11 – 10th Harmonic of the fundamental frequency



Date: 25.DEC.2019 10:45:51



Date: 25.DEC.2019 10:45:59



Date: 25.DEC.2019 10:46:08