



# **FCC** Radio Test Report

FCC ID: 2AFG6-C86CA

This report concerns (chec	k one): ⊠Original Grant
Project No. Equipment Test Model Series Model Applicant Address	<ul> <li>: 1611C193C</li> <li>: Conference Flat Panel</li> <li>: C86CA</li> <li>: C86CB, C86CC, C86CD, C86CE</li> <li>: Guangzhou Shirui Electronics Co.,Ltd</li> <li>: 192 Kezhu Road, Scientech Park, Guangzhou Economic &amp;Technology Development District, Guangzhou,Guangdong,China</li> </ul>
Date of Receipt Date of Test Issued Date Tested by	<ul> <li>May 08, 2018</li> <li>May 10, 2018 ~ May 21, 2018</li> <li>Jun. 14, 2018</li> <li>BTL Inc.</li> </ul>
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## **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1611C193C	Original Issue.	Jun. 14, 2018

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#### 1. CERTIFICATION

Equipment : Conference Flat Panel Brand Name : MAXHUB, CVTOUCH

Test Model : C86CA

Series Model: C86CB, C86CC, C86CD, C86CE
Applicant: Guangzhou Shirui Electronics Co.,Ltd
Manufacturer: Guangzhou Shirui Electronics Co.,Ltd

Address : 192Kezhu Road, Scientech Park, Guangzhou Economic & Technology

Development District, Guangzhou, Guangdong, China

Date of Test : May 10, 2018 ~ May 21, 2018

Test Sample: Engineering Sample NO.: D170402581

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1611C193C) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

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## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

#### NOTE:

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

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#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385 BTL's designation number for FCC: CN5020

#### 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

#### A. Conducted Measurement:

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

#### B. Radiated Measurement:

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

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

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## 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Conference Flat Panel		
Brand Name	Maxhub, CVTouch		
Test Model	C86CA		
Series Model	C86CB, C86CC, C86CD,	C86CE	
Model Difference	Only differ in sales area.		
	Operation Frequency	2412~2462 MHz	
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps	
	Output Power (Max.)  802.11b: 16.53dBm 802.11g: 13.71dBm 802.11n(20MHz): 12.84dBm 802.11n(40MHz): 12.64dBm		
Power Source	AC Mains.		
Power Rating	AC 100-240V∼ 50/60Hz 5.0A		

#### Note:

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

#### 2. Channel List:

	CH01 - CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 - CH09 for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

#### 3. Table for Filed Antenna

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

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#### 3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description		
Mode 1	TX B MODE CHANNEL 01/06/11		
Mode 2	TX G MODE CHANNEL 01/06/11		
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11		
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09		
Mode 5	Normal Link		

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

	For Conducted Test
Final Test Mode	Description
Mode 5	Normal Link

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

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

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6dB Spectrum Bandwidth		
Final Test Mode Description		
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

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

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

#### Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)
  - 802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (13.5Mbps)
  - For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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#### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

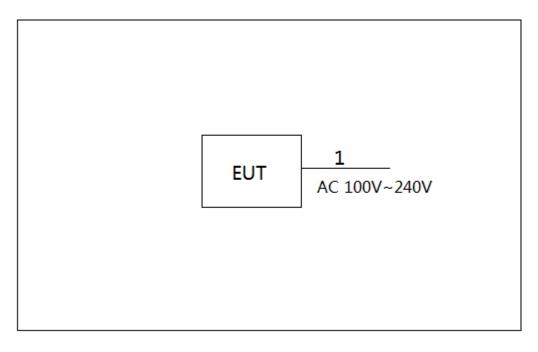
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version	WIFI Test		
Frequency (MHz)	2412	2437	2462
802.11b	37	36	36
802.11g	44	43	43
802.11n (20MHz)	42	42	41
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	41	44	44





#### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



#### 3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC Cable

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	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 limit of " \* " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

#### **4.1.2 TEST PROCEDURE**

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

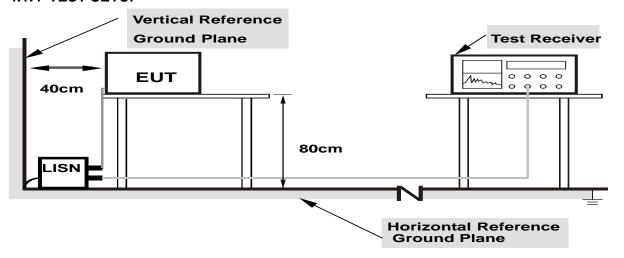
#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation





#### 4.1.4 TEST SETUP



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

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

#### 4.1.5 EUT OPERATING CONDITIONS

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

#### **4.1.6 EUT TEST CONDITIONS**

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

#### **4.1.7 TEST RESULTS**

Please refer to the Appendix A.





#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (MHz)	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value





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

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

#### **4.2.2 TEST PROCEDURE**

- a. The 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 1GHz)
- 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 1GHz)
- 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

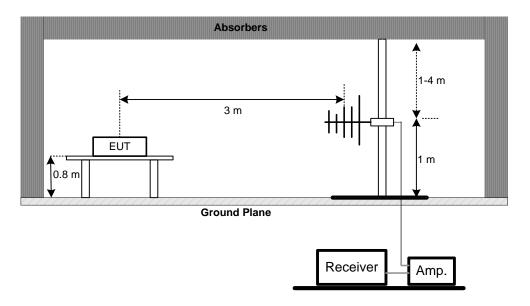
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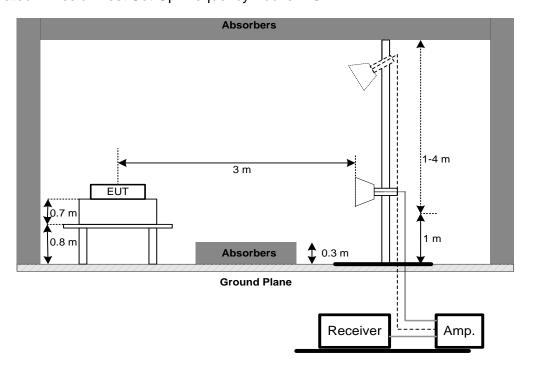


#### 4.2.4 TEST SETUP

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



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

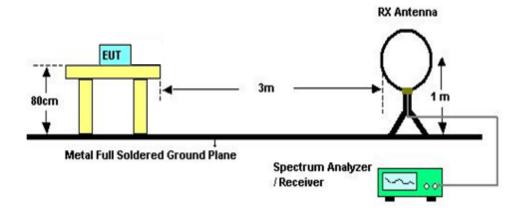


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#### (C) For Radiated Emissions Below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

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

#### 4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B

#### Remark:

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

## **4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)**

Please refer to the Appendix C.

#### 4.2.9 TEST RESULTS (ABOVE 1000MHZ)

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.

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#### 5. BANDWIDTH TEST

#### **5.1 APPLIED PROCEDURES**

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

#### **5.1.1 TEST PROCEDURE**

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

#### **5.1.2 DEVIATION FROM STANDARD**

No deviation.

#### 5.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

#### **5.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### **5.1.5 EUT TEST CONDITIONS**

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

#### **5.1.6 TEST RESULTS**

Please refer to the Appendix E.

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#### 6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

#### **6.1 APPLIED PROCEDURES / LIMIT**

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

#### **6.1.1 TEST PROCEDURE**

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

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower meter

#### **6.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### **6.1.5 EUT TEST CONDITIONS**

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

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

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#### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

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

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP

EUT		SPECTRUM	
		ANALYZER	

#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

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

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.

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#### 8. POWER SPECTRAL DENSITY TEST

#### 8.1 APPLIED PROCEDURES / LIMIT

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

#### **8.1.1 TEST PROCEDURE**

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

#### **8.1.2 DEVIATION FROM STANDARD**

No deviation.

#### 8.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

#### **8.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### **8.1.5 EUT TEST CONDITIONS**

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

#### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

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## 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019	
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019	
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019	
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Oct. 19, 2018	

	Radiated Emission Measurement - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019		
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018		
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		
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019		

	Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019	
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018	
6	Controller	СТ	SC100	N/A	N/A	
7	Controller	MF	MF-7802	MF780208416	N/A	
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018	
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

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	6dB Bandwidth										
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrate											
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018						

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

	Antenna Conducted Spurious Emission										
Item	Kind of Equipment	Serial No.	Calibrated until								
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018						

	Power Spectral Density										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018						

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

All calibration period of equipment list is one year.

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## **10. EUT TEST PHOTO**







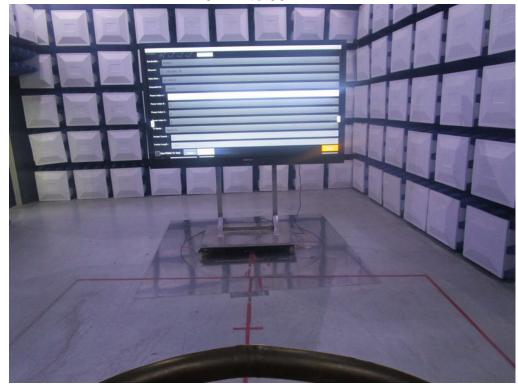
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## **Radiated Measurement Photos**

## 9KHz to 30MHz





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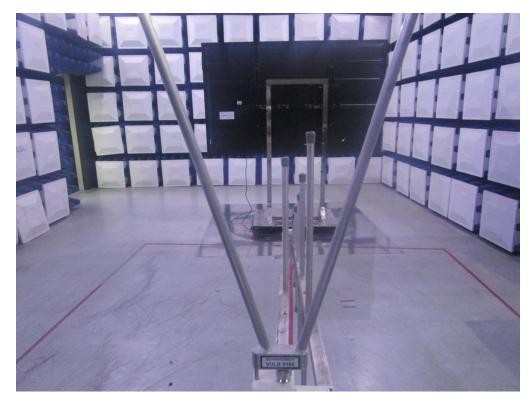




## **Radiated Measurement Photos**

## 30MHz to 1000MHz





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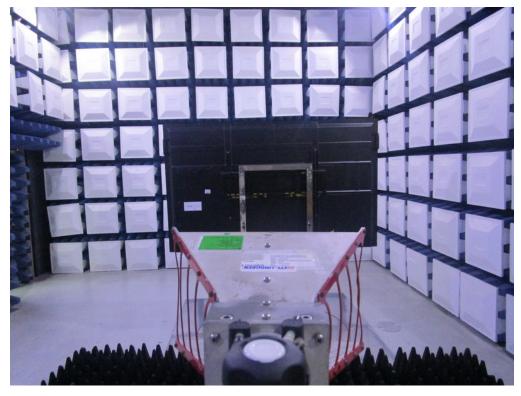




## **Radiated Measurement Photos**

Above 1000MHz





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АР	PENDIX A - CONDUCTED EMISSION

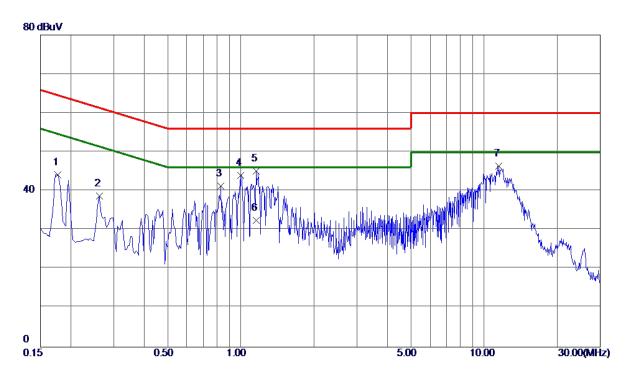
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Test Mode: Normal Link

## Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1770	34. 35	9.82	44. 17	64.63	-20.46	Peak	
2	0. 2625	28.89	9.82	38.71	61.35	-22.64	Peak	
3	0.8294	31. 30	9. 91	41.21	56.00	-14.79	Peak	
4	1.0004	34.04	9. 92	43.96	56.00	-12.04	Peak	
5 *	1. 1580	35. 15	9. 93	<b>45.08</b>	56.00	-10.92	Peak	
6	1. 1580	22. 50	9. 93	32.43	46.00	-13. 57	AVG	
7	11.4675	35. 85	10. 57	46. 42	60.00	-13. 58	Peak	

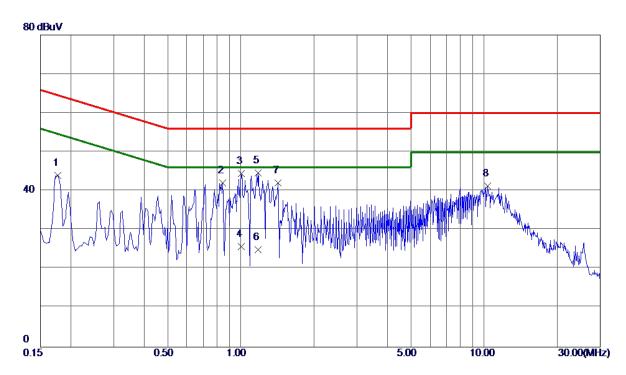
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Test Mode : Normal Link

## Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1770	34. 05	9. 91	43.96	64.63	-20.67	Peak	
2	0.8430	31. 98	10.09	42.07	56.00	-13.93	Peak	
3	1.0050	34. 38	10. 12	44.50	56.00	-11. 50	Peak	
4	1.0050	15. 70	10. 12	25.82	46.00	-20. 18	AVG	
5 *	1. 1804	34.44	10. 13	44.57	56.00	-11.43	Peak	
6	1.1804	14.80	10. 13	24.93	46.00	<b>-21.07</b>	AVG	
7	1.4234	31. 98	10. 15	42. 13	56.00	-13.87	Peak	
8	10. 3650	30. 53	10.77	41. 30	60.00	-18. 70	Peak	

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

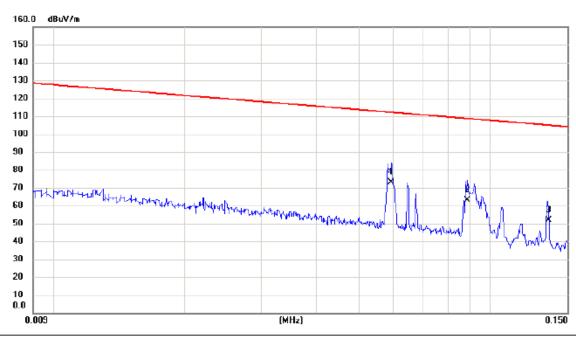
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Test Mode: TX B MODE CHANNEL 01

## Ant 0°



No. Mk.	Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0593	54.30	18.54	72.84	112.14	-39.30	AVG	
2	0.0885	45.29	17.91	63.20	108.67	-45.47	AVG	
3	0.1356	34.50	17.14	51.64	104.96	-53.32	AVG	

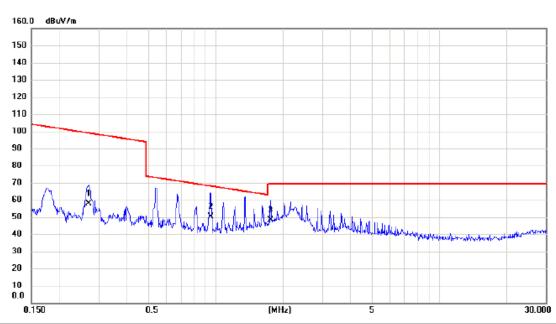
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Test Mode: TX B MODE CHANNEL 01

## Ant 0°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2701	41.20	16.64	57.84	98.97	-41.13	AVG	
2 *	0.9481	34.10	15.95	50.05	68.07	-18.02	QP	
3	1.7530	32.50	15.61	48.11	69.54	-21.43	QP	

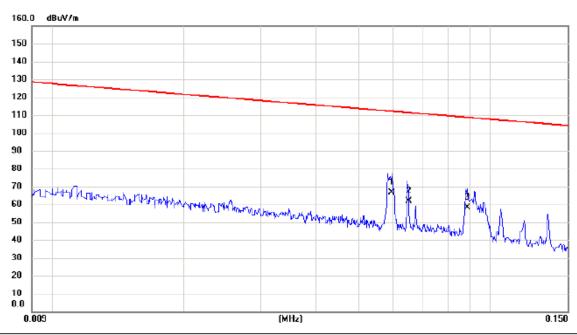
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Test Mode: TX B MODE CHANNEL 01

#### Ant 90°



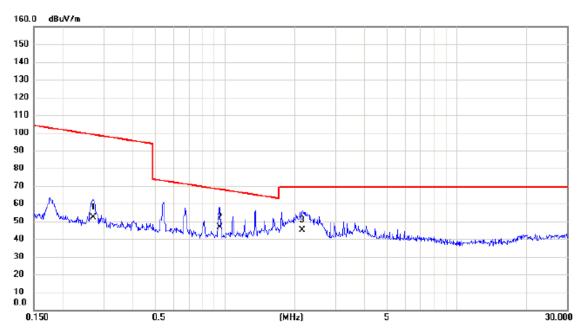
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0596	48.20	18.54	66.74	112.10	-45.36	AVG	
2	0.0650	43.50	18.43	61.93	111.35	-49.42	AVG	
3	0.0884	40.20	17.91	58.11	108.68	-50.57	AVG	

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# Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2701	35.60	16.64	52.24	98.97	-46.73	AVG	
2 *	0.9481	30.70	15.95	46.65	68.07	-21.42	QP	
3	2.1552	29.70	15.46	45.16	69.54	-24.38	QP	

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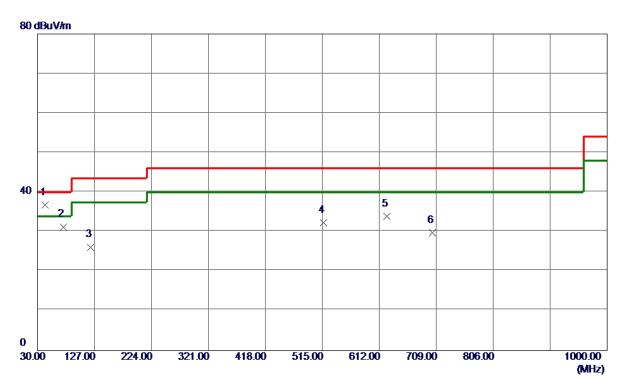
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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# Vertical

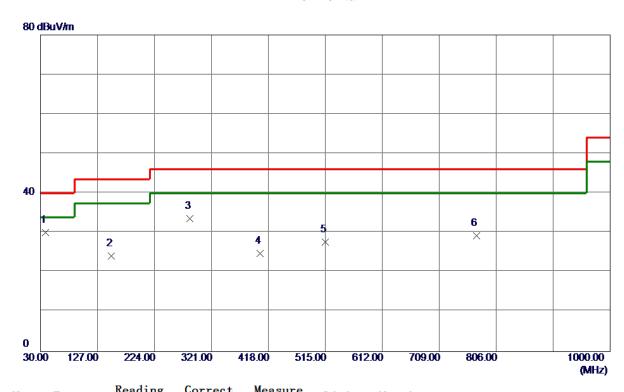


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	42.6100	51.87	-15. 10	36. 77	40.00	-3. 23	QP	
2	73.6500	49. 96	-18.68	31. 28	40.00	-8.72	Peak	
3	120. 2100	41.46	-15. 30	26. 16	43.50	-17.34	Peak	
4	516. 9400	40. 58	-8. 19	32. 39	46.00	-13.61	Peak	
5	624.6100	40. 30	-6. 43	33. 87	46.00	-12. 13	Peak	
6	702. 2100	33. 21	-3.46	29. 75	46.00	-16. 25	Peak	





## Horizontal



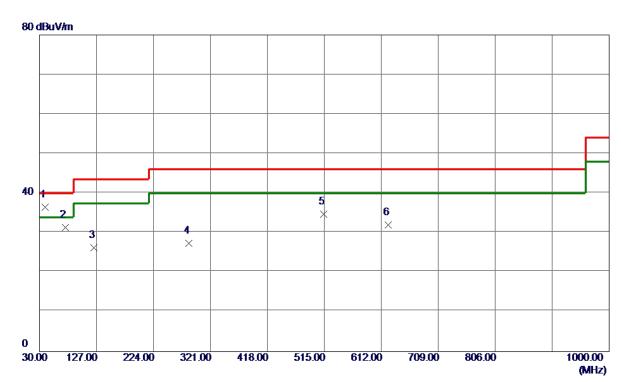
No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	38.7300	45. 13	-15. 04	30. 09	40.00	-9. 91	Peak	
2	150. 2800	36. 34	-12. 16	24. 18	43.50	-19. 32	Peak	
3	284. 1400	45. 56	-11. 93	33. 63	46.00	-12. 37	Peak	
4	404. 4200	34.77	-9. 92	24.85	46.00	-21. 15	Peak	
5	515. 0000	36. 00	-8. 30	27.70	46.00	-18. 30	Peak	
6	772.0500	32.65	-3. 32	29. 33	46.00	-16. 67	Peak	

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# Vertical

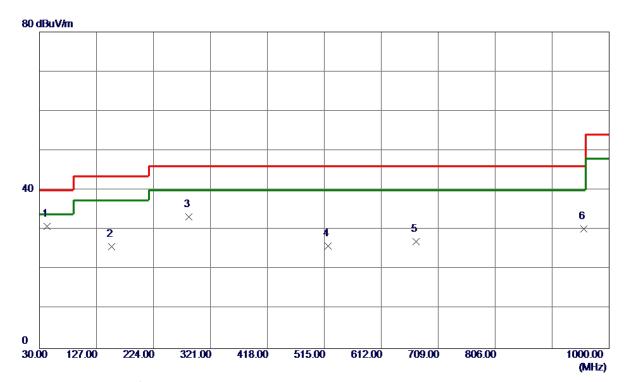


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	39.7000	51. 51	-15.03	36. 48	40.00	-3. 52	QP	
2	73.6500	50.05	-18.68	31. 37	40.00	-8. 63	Peak	
3	123. 1200	41.24	-14.93	26. 31	43.50	-17. 19	Peak	
4	284. 1400	39. 34	-11.93	27.41	46.00	-18. 59	Peak	
5	514.0300	43.05	-8. 36	34.69	46.00	-11.31	Peak	
6	623. 6400	38. 40	-6. 45	31. 95	46.00	-14.05	Peak	





# Horizontal

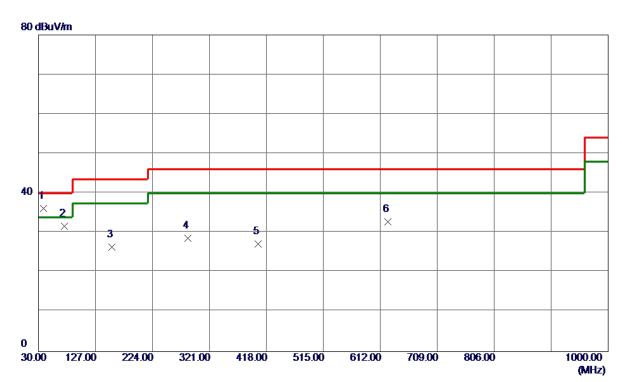


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	42.6100	45. 98	-15. 10	30.88	40.00	-9. 12	Peak	
2	153. 1900	37.61	-11. 90	25.71	43.50	-17.79	Peak	
3	284. 1400	45. 26	-11. 93	33. 33	46.00	-12.67	Peak	
4	521.7900	33. 80	-7.89	25. 91	46.00	-20.09	Peak	
5	671. 1700	31.83	-4.81	27. 02	46.00	-18.98	Peak	
6	957. 3200	29. 44	0. 76	30. 20	46.00	-15. 80	Peak	





# Vertical

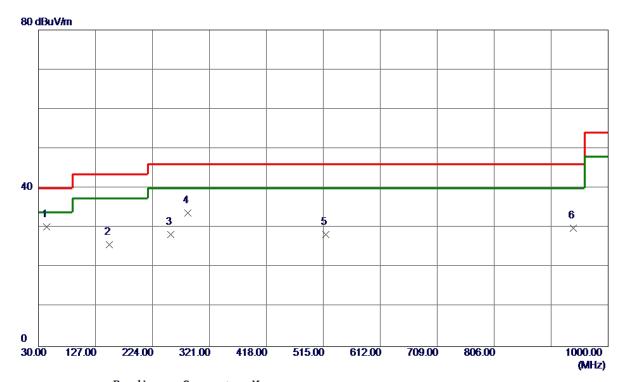


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	38.7300	51. 23	-15.04	36. 19	40.00	-3.81	QP	
2	74.6200	50. 57	-18.89	31.68	40.00	-8. 32	Peak	
3	155. 1300	38. 15	-11.73	26. 42	43.50	-17.08	Peak	
4	284. 1400	40. 54	-11.93	28. 61	46.00	-17.39	Peak	
5	404. 4200	37. 09	-9. 92	27. 17	46.00	-18.83	Peak	
6	624. 6100	39. 29	-6. 43	32. 86	46. 00	-13. 14	Peak	





# Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	43.5800	45.41	-15. 10	30. 31	40.00	-9. 69	Peak	
2	150. 2800	37.94	-12. 16	25. 78	43.50	-17.72	Peak	
3	255.0400	42.97	-14.64	28. 33	46.00	-17.67	Peak	
4	284. 1400	45.69	-11. 93	33. 76	46.00	-12.24	Peak	
5	518.8800	36. 38	-8. 07	28. 31	46.00	-17.69	Peak	
6	940. 8300	29.41	0. 55	29. 96	46.00	-16. 04	Peak	

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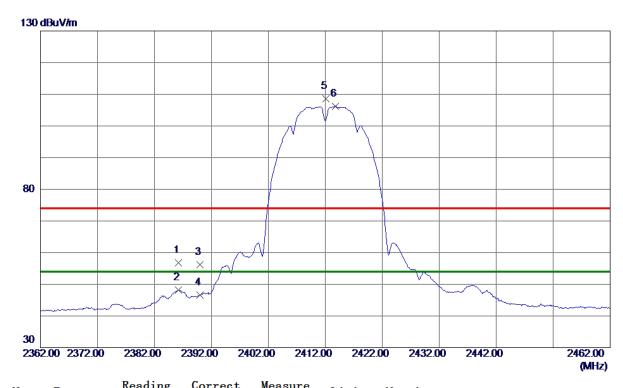
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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## Vertical



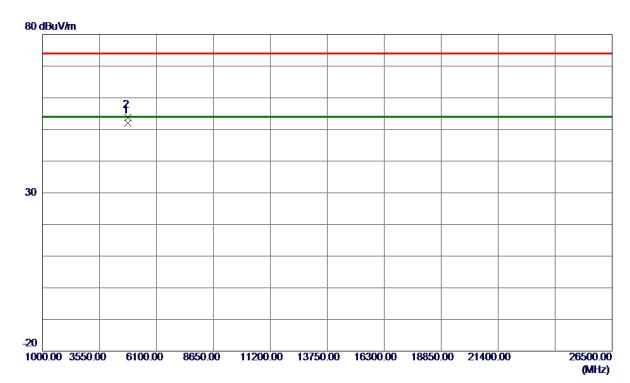
No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 2000	47.76	9. 01	56. 77	74.00	-17. 23	Peak	
2	2386. 2000	39. 11	9. 01	48. 12	54.00	-5. 88	AVG	
3	2390.0000	47. 16	9.00	56. 16	74.00	-17.84	Peak	
4	2390.0000	37. 56	9.00	46. 56	54.00	-7.44	AVG	
5	2412. 1000	99. 57	9.00	108. 57	74.00	34. 57	Peak	No Limit
6 *	2413.8000	97. 15	8. 99	106. 14	54.00	52. 14	AVG	No Limit

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## Vertical

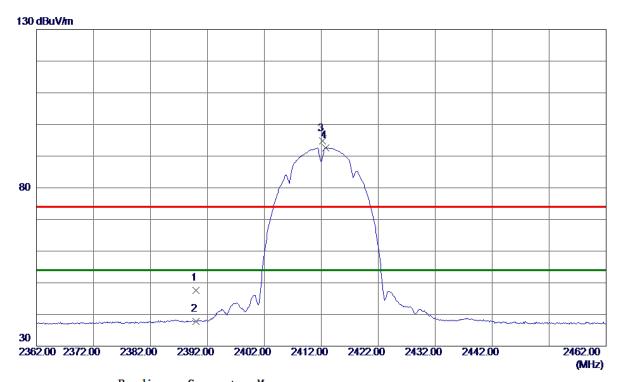


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823. 9250	46. 16	5. 78	51.94	54.00	-2.06	AVG	
2	4823.9450	48. 11	5. 78	53.89	74.00	-20. 11	Peak	





### Horizontal



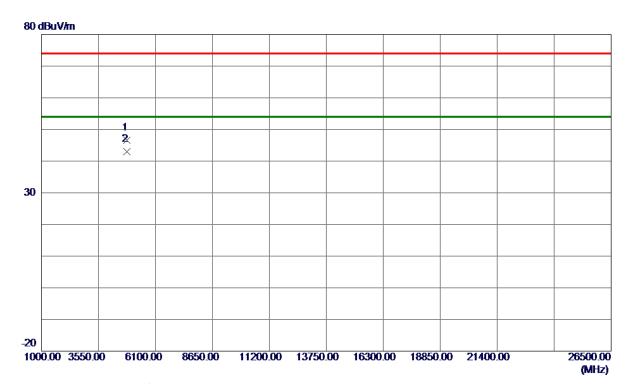
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	38. 54	9. 00	47. 54	74.00	-26. 46	Peak	
2	2390.0000	28. 86	9. 00	37.86	54.00	-16. 14	AVG	
3	2412. 2000	85. 88	9. 00	94.88	74.00	20.88	Peak	No Limit
4 *	2412.8000	83. 64	8. 99	92. 63	54.00	38. 63	AVG	No Limit

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### Horizontal



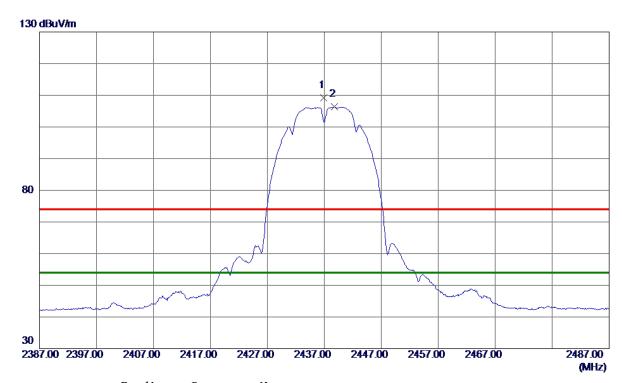
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9200	40.78	5. 78	46. 56	74.00	-27.44	Peak	
2 *	4823.9200	37. 27	5. 78	43.05	54.00	-10.95	AVG	

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## Vertical



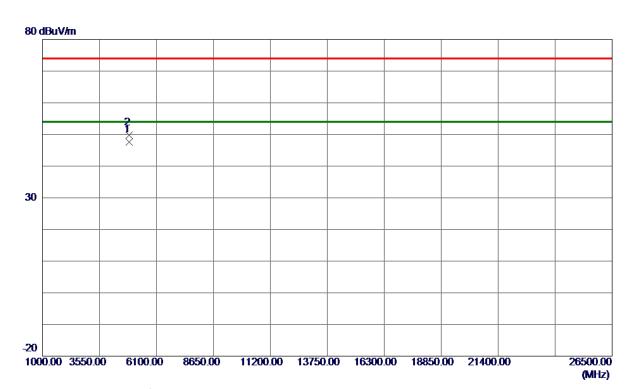
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.9000	100. 22	8. 99	109. 21	74.00	35. 21	Peak	No Limit
2 *	2438. 8000	97. 35	8. 98	106. 33	54.00	52. 33	AVG	No Limit

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## Vertical



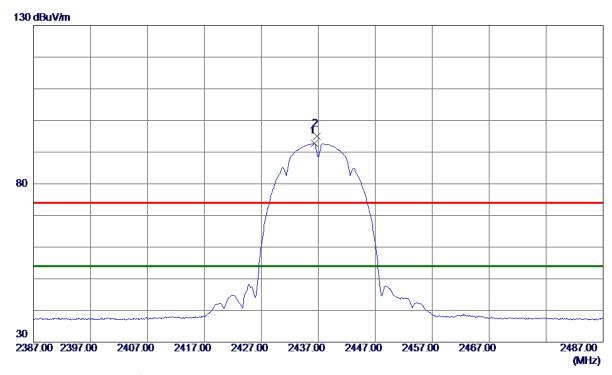
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0099	41.61	5. 90	47.51	54.00	-6.49	AVG	
2	4874.0150	43.88	5. 90	49. 78	74.00	-24. 22	Peak	

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### Horizontal



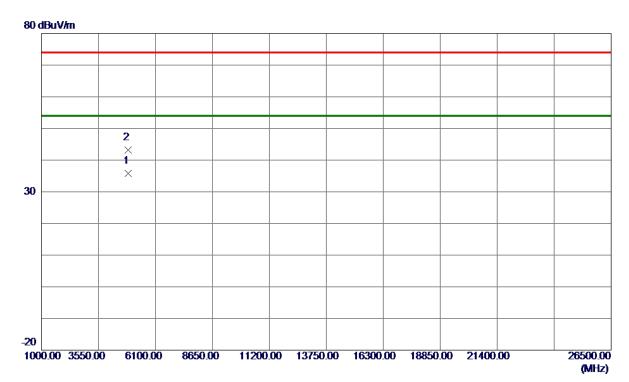
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436. 3000	83.76	8. 99	92.75	54.00	38. 75	AVG	No Limit
2	2436.8000	86. 06	8. 99	95. 05	74.00	21.05	Peak	No Limit

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### Horizontal



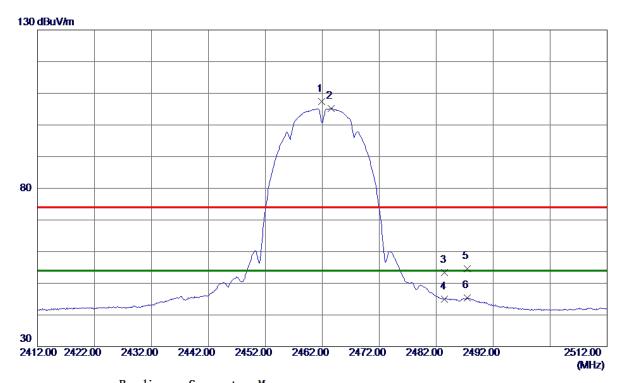
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0040	29.81	5. 90	35. 71	54.00	-18. 29	AVG	
2	4874. 1980	37. 29	5. 91	43. 20	74.00	-30.80	Peak	

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## Vertical



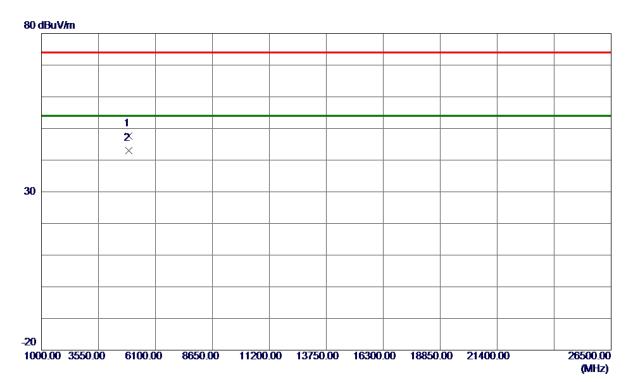
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461.9000	98.48	8. 98	107.46	74.00	33.46	Peak	No Limit
2 *	2463.6000	96. 15	8. 97	105. 12	54.00	51. 12	AVG	No Limit
3	2483. 5000	44.49	8. 97	53.46	74.00	-20. 54	Peak	
4	2483. 5000	36. 02	8. 97	44.99	54.00	-9. 01	AVG	
5	2487.4000	45.62	8.96	54. 58	74.00	-19.42	Peak	
6	2487.4000	36. 41	8. 96	45. 37	54.00	-8.63	AVG	

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## **Vertical**



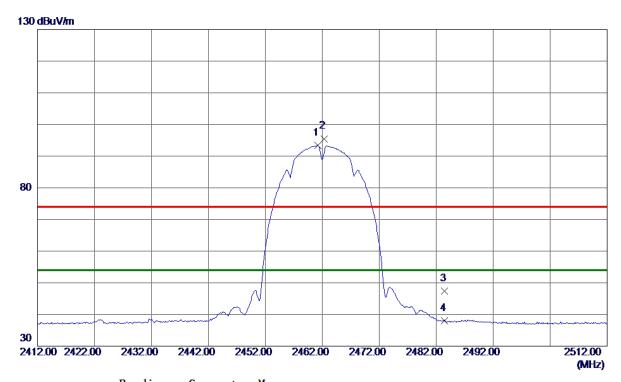
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8700	41.54	6. 03	47. 57	74.00	-26.43	Peak	
2 *	4923. 9550	36. 96	6. 03	42.99	54.00	-11.01	AVG	

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### Horizontal



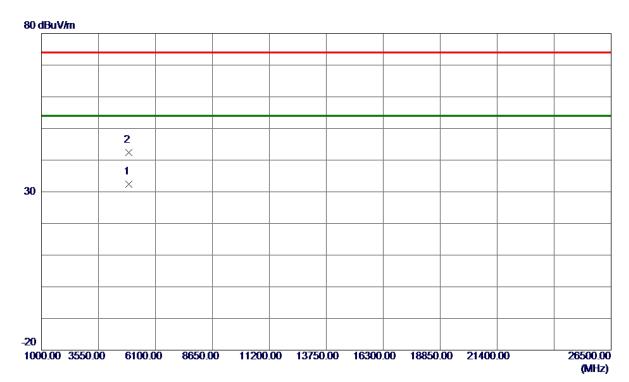
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461. 2000	84. 35	8. 98	93. 33	54.00	39. 33	AVG	No Limit
2	2462.3000	86. 52	8. 98	95. 50	74.00	21. 50	Peak	No Limit
3	2483. 5000	38.44	8. 97	47.41	74.00	-26. 59	Peak	
4	2483. 5000	29. 07	8. 97	38. 04	54.00	-15. 96	AVG	

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### Horizontal



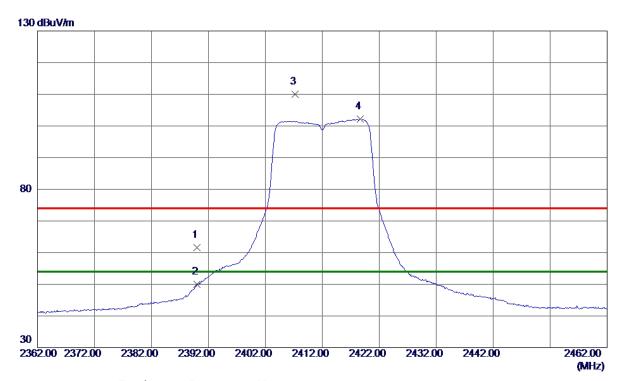
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9220	26. 33	6. 03	32. 36	54.00	-21.64	AVG	
2	4923. 9740	36. 38	6. 03	42.41	74.00	-31. 59	Peak	

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## Vertical



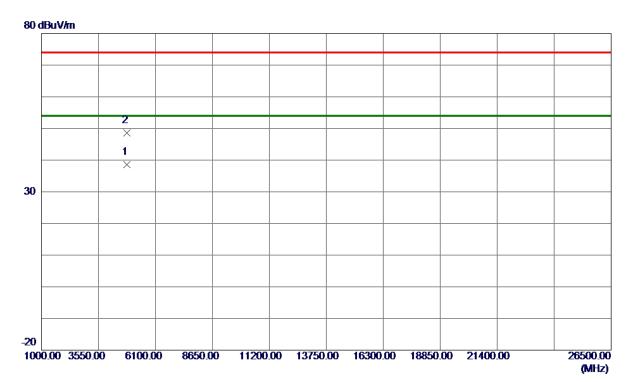
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	52. 62	9. 00	61. 62	74.00	-12.38	Peak	
2	2390.0000	40.96	9. 00	49.96	54.00	-4.04	AVG	
3	2407. 2000	101.01	9. 00	110.01	74.00	36.01	Peak	No Limit
4 *	2418. 7000	93. 12	8. 99	102. 11	54.00	48. 11	AVG	No Limit

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## Vertical



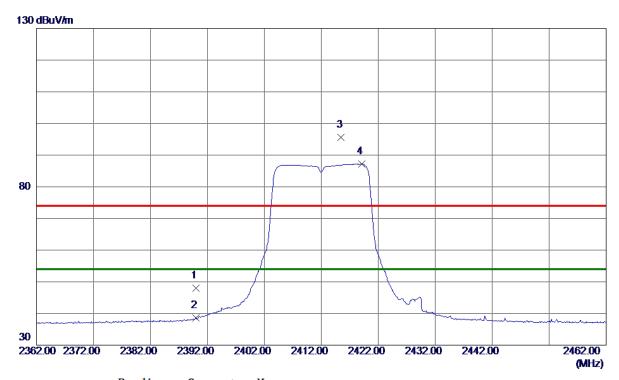
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.9000	32.84	5. 78	38. 62	54.00	-15. 38	AVG	
2	4826. 5500	42.81	5. 79	48. 60	74.00	-25. 40	Peak	

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### Horizontal



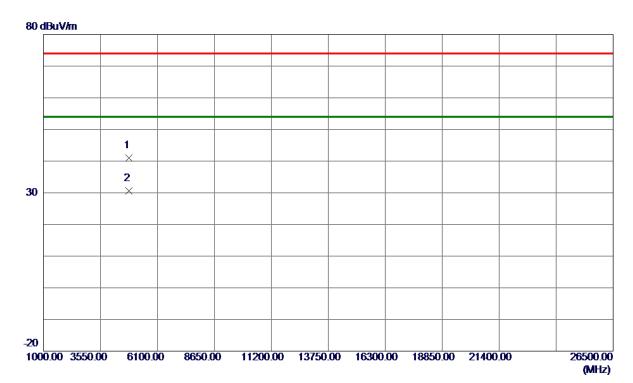
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39. 08	9.00	48.08	74.00	-25. 92	Peak	
2	2390.0000	29. 57	9.00	38. 57	54.00	-15. 43	AVG	
3	2415. 5000	86. 52	8. 99	95. 51	74.00	21.51	Peak	No Limit
4 *	2419. 1000	78. 19	8. 99	87. 18	54.00	33. 18	AVG	No Limit

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### Horizontal



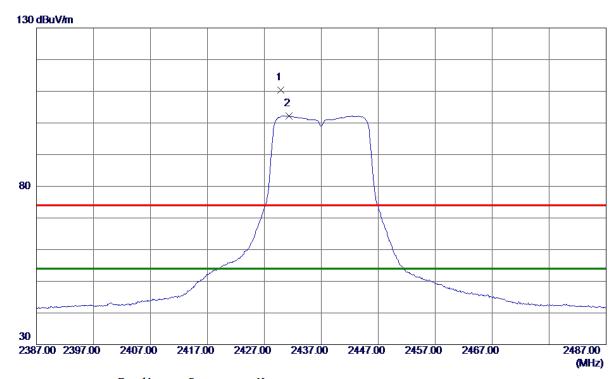
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 5000	35. 20	5. 78	40.98	74.00	-33.02	Peak	
2 *	4823.9500	24.77	5. 78	30. 55	54.00	-23. 45	AVG	

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## Vertical



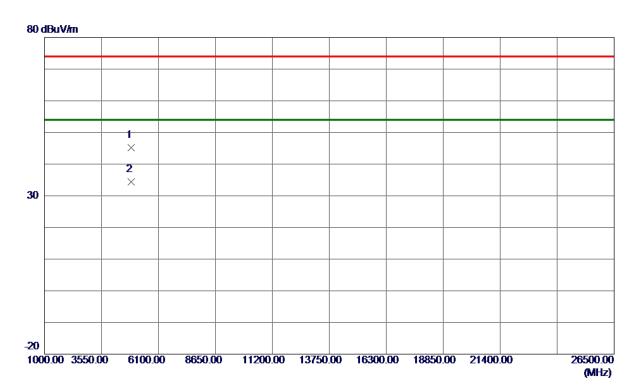
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2429. 9000	101.46	8. 99	110. 45	74.00	36. 45	Peak	No Limit
2 *	2431. 3000	93. 21	8. 99	102. 20	54.00	48. 20	AVG	No Limit
	2101.0000	00.21	0.00	102. 20	01.00	10. 20	1110	NO LIMIT

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## Vertical



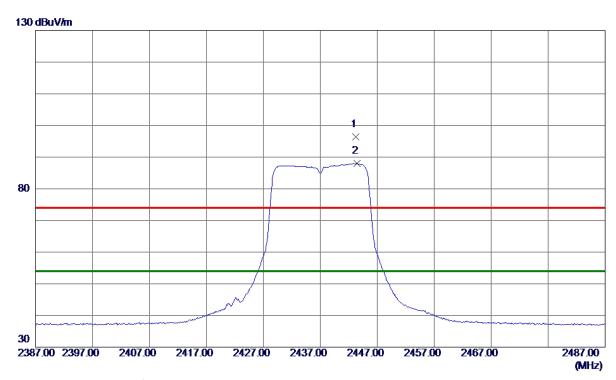
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4871.0000	39. 26	5. 90	45. 16	74.00	-28.84	Peak	
2 *	4873.9500	28. 49	5. 90	34. 39	54.00	-19.61	AVG	

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### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2443. 2000	87.39	8. 98	96. 37	74.00	22. 37	Peak	No Limit
2 *	2443. 4000	79. 01	8. 98	87. 99	54.00	33. 99	AVG	No Limit

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### Horizontal

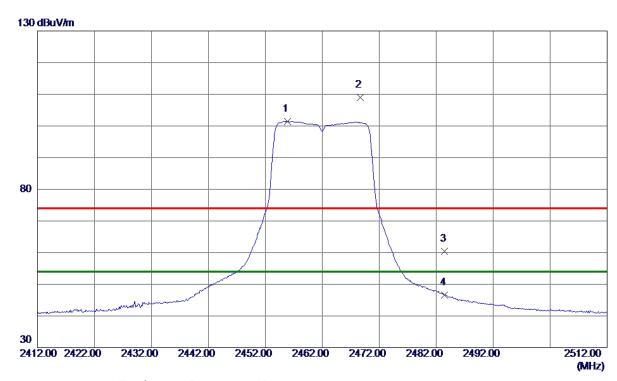


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4875. 2000	35. 06	5. 91	40. 97	74.00	-33.03	Peak	
2 *	4879. 5500	23. 98	5. 92	29. 90	54.00	-24. 10	AVG	





## Vertical

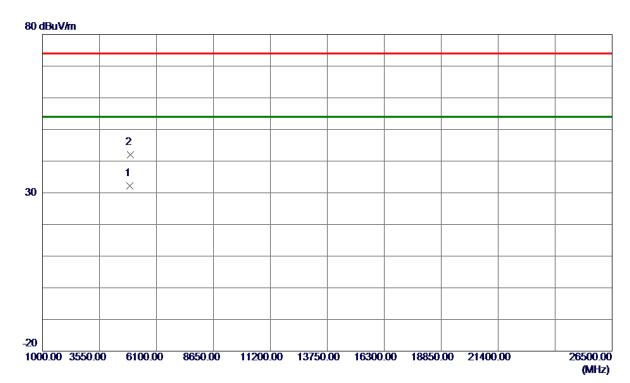


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455. 9000	92.46	8. 98	101.44	54.00	47.44	AVG	No Limit
2	2468.7000	100.11	8. 97	109.08	74.00	35. 08	Peak	No Limit
3	2483. 5000	51. 34	8. 97	60. 31	74.00	-13.69	Peak	
4	2483. 5000	37.62	8. 97	46. 59	54.00	-7.41	AVG	





## Vertical



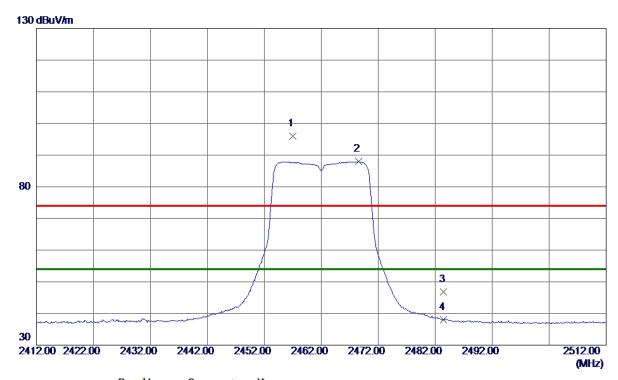
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.0500	26. 11	6. 03	32. 14	54.00	-21.86	AVG	
2	4926. 2000	35. 89	6. 04	41. 93	74.00	-32.07	Peak	

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### Horizontal



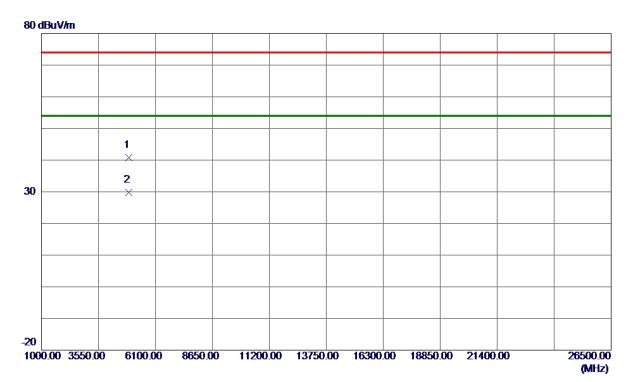
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2457.0000	86. 96	8. 98	95. 94	74.00	21.94	Peak	No Limit
2 *	2468.6000	78. 95	8. 97	87. 92	54.00	33. 92	AVG	No Limit
3	2483. 5000	37. 92	8. 97	46.89	74.00	-27. 11	Peak	
4	2483. 5000	29. 12	8. 97	38. 09	54.00	-15. 91	AVG	

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### Horizontal

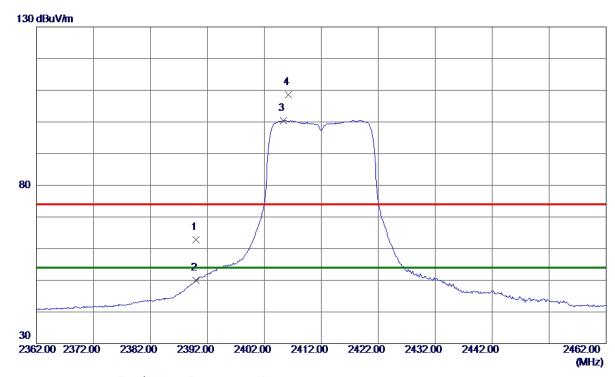


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4919. 1000	34.77	6. 02	40.79	74.00	-33. 21	Peak	
2 *	4922. 9000	23. 76	6. 03	29. 79	54.00	-24. 21	AVG	





## Vertical



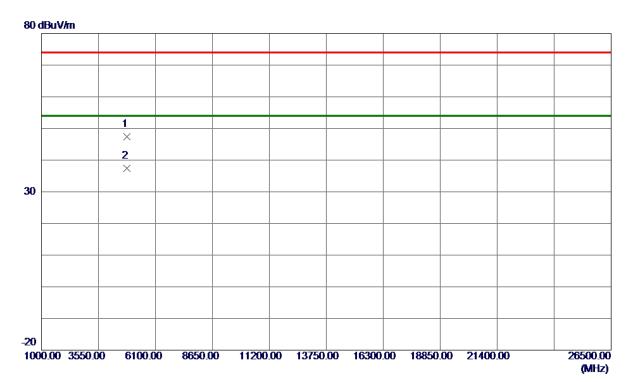
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	53.77	9. 00	62.77	74.00	-11. 23	Peak	
2	2390.0000	41.00	9. 00	50.00	54.00	-4.00	AVG	
3 *	2405. 3000	91.40	9. 00	100.40	54.00	46.40	AVG	No Limit
4	2406. 2000	99. 67	9. 00	108. 67	74.00	34. 67	Peak	No Limit

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## Vertical



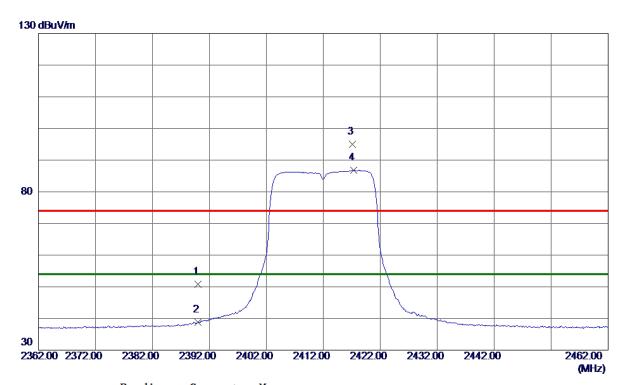
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.4500	41. 59	5. 78	47. 37	74.00	-26.63	Peak	
2 *	4824.0000	31. 60	5. 78	37. 38	54.00	-16.62	AVG	

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### Horizontal



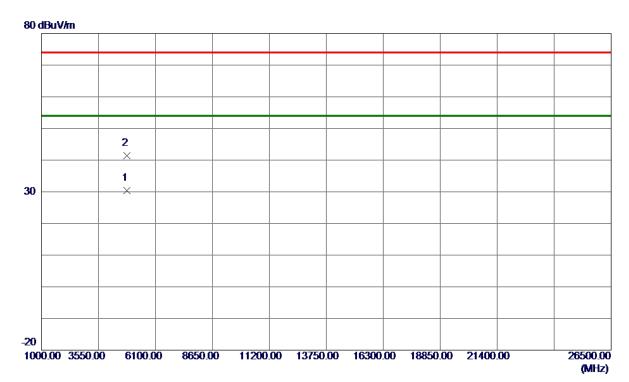
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	41.81	9.00	50.81	74.00	-23. 19	Peak	
2	2390.0000	29.74	9.00	38.74	54.00	-15. 26	AVG	
3	2417. 1000	85. 98	8. 99	94.97	74.00	20.97	Peak	No Limit
4 *	2417. 3000	77.87	8. 99	86. 86	54.00	32.86	AVG	No Limit

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### Horizontal



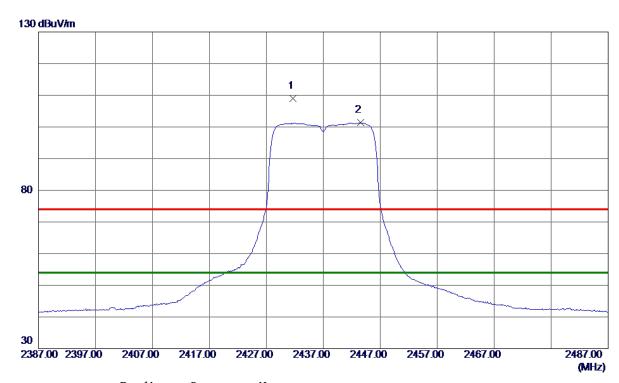
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.7500	24.67	5. 78	30. 45	54.00	-23. 55	AVG	
2	4824. 2000	35. 65	5. 78	41. 43	74.00	-32. 57	Peak	

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### Vertical



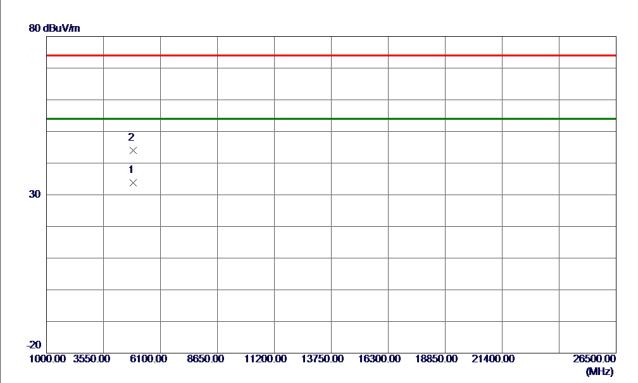
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2431.7000	100.02	8. 99	109. 01	74.00	35. 01	Peak	No Limit
2 *	2443. 5000	92. 37	8. 98	101.35	54.00	47.35	AVG	No Limit

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### Vertical



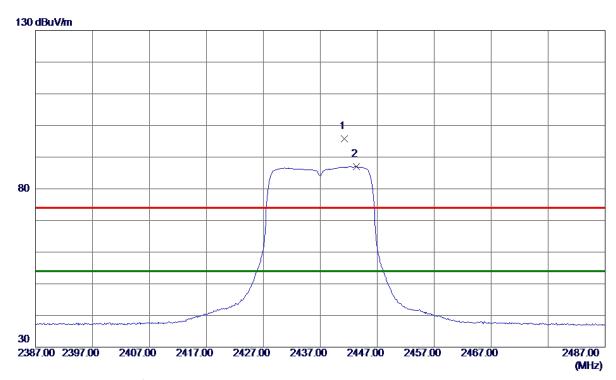
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.9500	27.88	5. 90	33. 78	54.00	-20. 22	AVG	
2	4874.0000	38. 19	5. 90	44.09	74.00	-29. 91	Peak	

Report No.: BTL-FCCP-1-1611C193C





### Horizontal



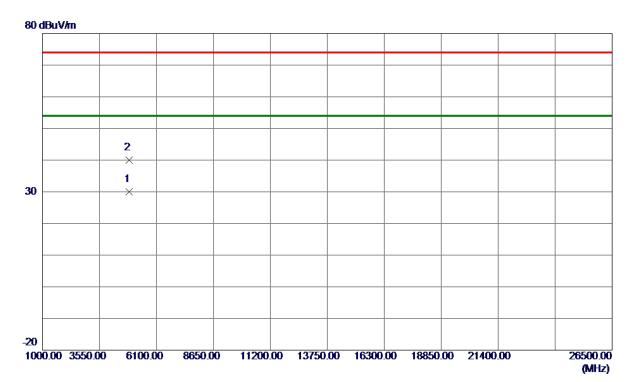
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441. 2000	86. 79	8. 98	95. 77	74.00	21.77	Peak	No Limit
2 *	2443. 3000	78. 08	8. 98	87.06	54.00	33. 06	AVG	No Limit

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### Horizontal



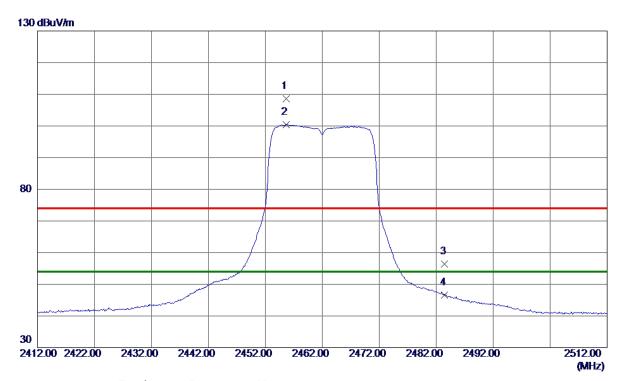
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4868. 1500	24.09	5. 89	29. 98	54.00	-24.02	AVG	
2	4873. 4500	34. 08	5. 90	39. 98	74.00	-34.02	Peak	

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### Vertical



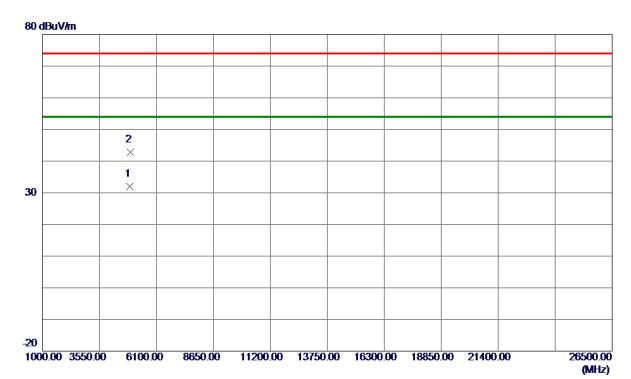
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455. 7000	99. 57	8. 98	108. 55	74.00	34. 55	Peak	No Limit
2 *	2455. 7000	91.44	8. 98	100.42	54.00	46.42	AVG	No Limit
3	2483. 5000	47.42	8. 97	56. 39	74.00	-17.61	Peak	
4	2483. 5000	37.69	8. 97	46. 66	54.00	-7.34	AVG	

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### Vertical



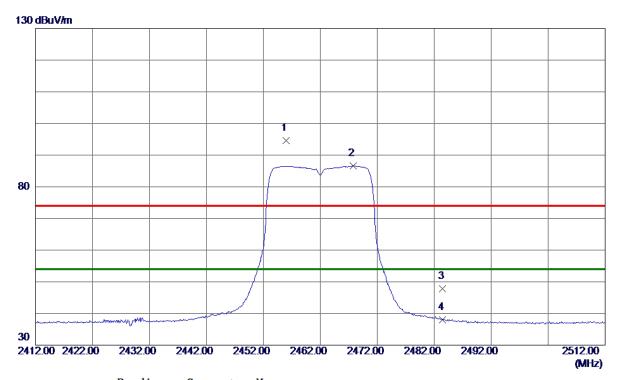
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9000	26. 03	6. 03	32.06	54.00	-21.94	AVG	
2	4928, 2000	36, 84	6. 04	42, 88	74. 00	-31, 12	Peak	

Report No.: BTL-FCCP-1-1611C193C





### Horizontal



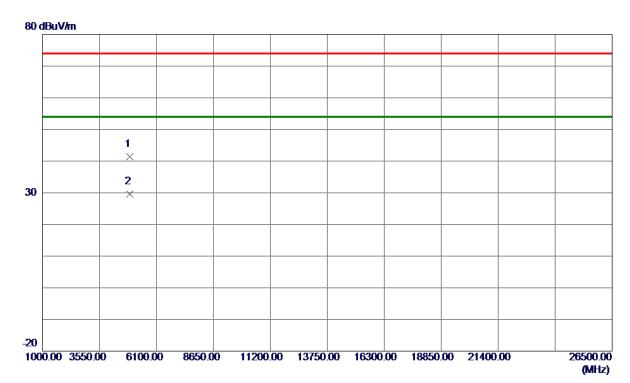
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456.0000	85. 66	8. 98	94.64	74.00	20.64	Peak	No Limit
2 *	2467.8000	77.61	8. 97	86. 58	54.00	32. 58	AVG	No Limit
3	2483. 5000	38. 79	8. 97	47.76	74.00	-26. 24	Peak	
4	2483. 5000	29. 01	8. 97	37. 98	54.00	-16. 02	AVG	

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### Horizontal



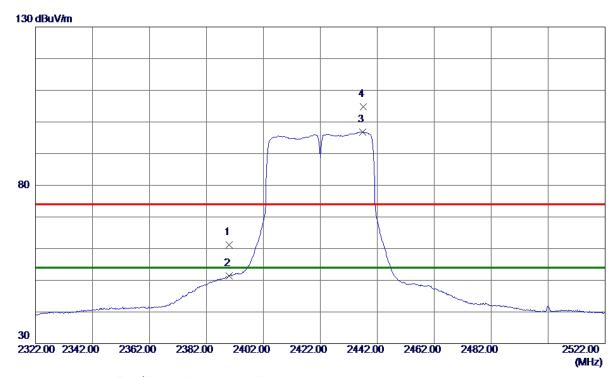
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 1000	35. 39	6. 03	41.42	74.00	-32.58	Peak	
2 *	4924. 1500	23. 65	6. 03	29.68	54.00	-24. 32	AVG	

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### Vertical



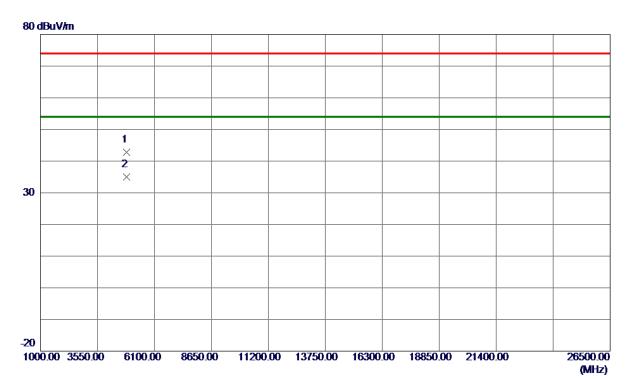
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	52. 14	9. 00	61. 14	74.00	-12.86	Peak	
2	2390.0000	42.44	9. 00	51.44	54.00	-2.56	AVG	
3 *	2436.8000	87.80	8. 99	96. 79	54.00	42.79	AVG	No Limit
4	2437. 2000	95. 78	8. 99	104.77	74.00	30.77	Peak	No Limit

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### Vertical



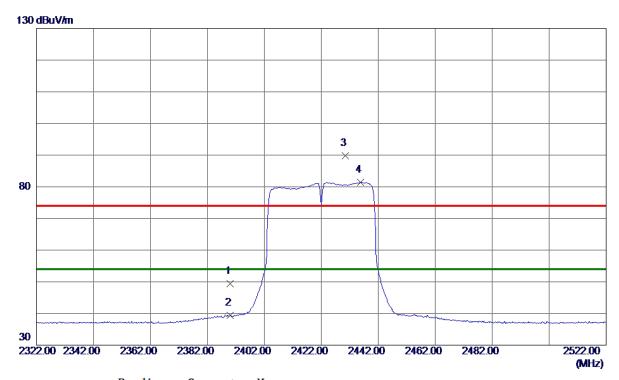
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843. 5000	36. 90	5. 83	42.73	74.00	-31. 27	Peak	
2 *	4843, 9000	29. 08	5. 83	34. 91	54. 00	-19, 09	AVG	

Report No.: BTL-FCCP-1-1611C193C





### Horizontal



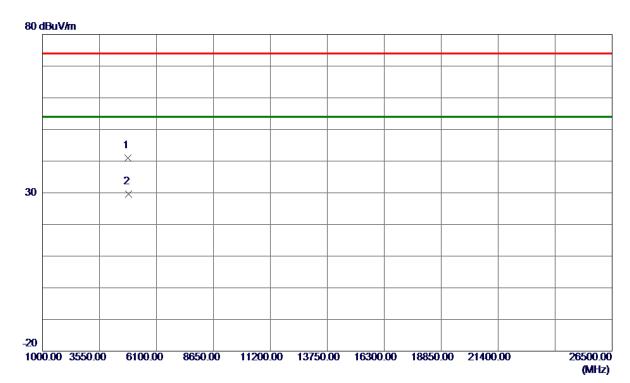
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	40.41	9. 00	49.41	74.00	-24. 59	Peak	
2	2390.0000	30. 34	9. 00	39. 34	54.00	-14.66	AVG	
3	2430. 4000	80.88	8. 99	89. 87	74.00	15.87	Peak	No Limit
4 *	2435.8000	72.43	8. 99	81.42	54.00	27.42	AVG	No Limit

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### Horizontal



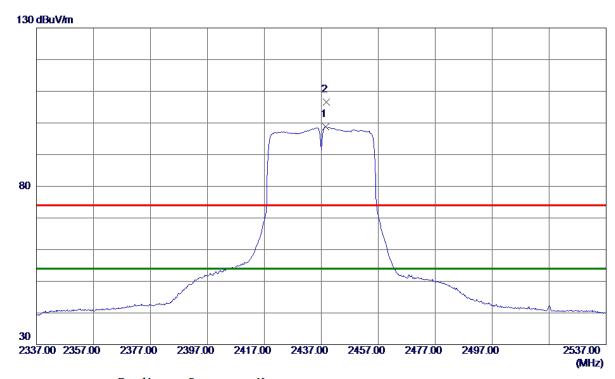
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4837.6500	35. 17	5. 81	40.98	74.00	-33.02	Peak	
2 *	4843.8000	23. 71	5. 83	29. 54	54.00	-24.46	AVG	

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### Vertical



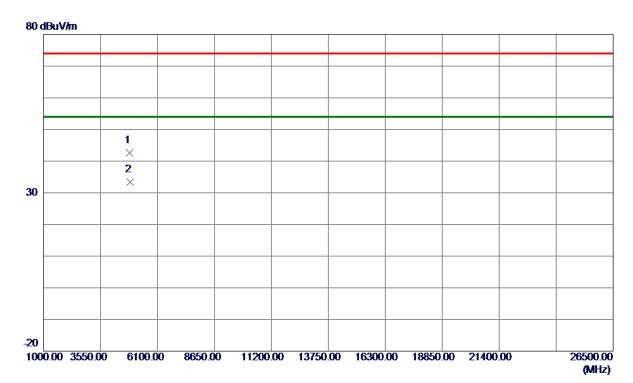
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2438.6000	89. 78	8. 98	98. 76	54.00	44.76	AVG	No Limit
2	2438.8000	97. 56	8. 98	106. 54	74.00	32. 54	Peak	No Limit

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### Vertical



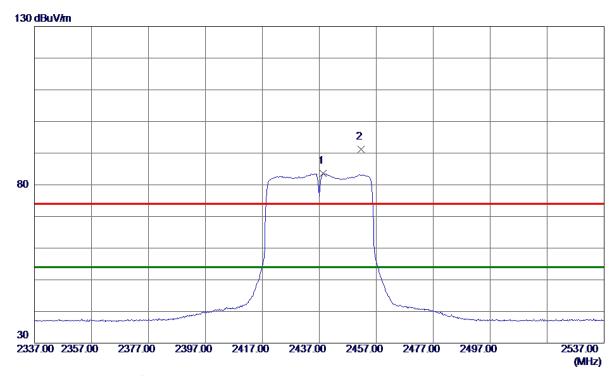
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4864. 4000	36.72	5. 88	42.60	74.00	-31.40	Peak	
2 *	4873.8000	27. 58	5. 90	33. 48	54.00	-20. 52	AVG	

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### Horizontal



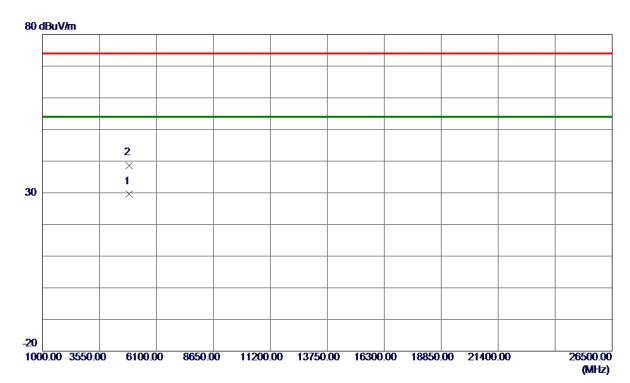
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2438. 4000	74. 55	8. 98	83. 53	54.00	29. 53	AVG	No Limit
2	2451.6000	82. 29	8. 98	91. 27	74.00	17. 27	Peak	No Limit

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### Horizontal



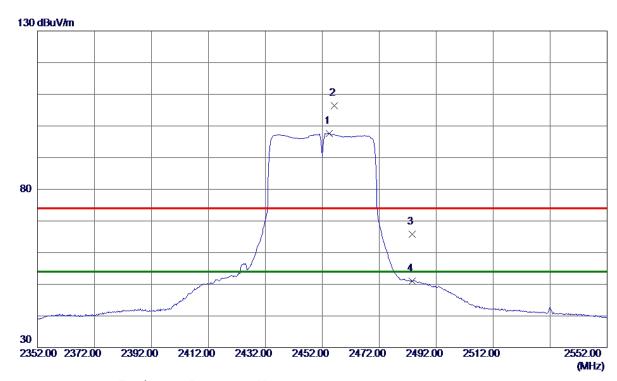
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4872. 2000	23.65	5. 90	29. 55	54.00	-24.45	AVG	
2	4874.8000	32. 79	5. 91	38. 70	74.00	-35. 30	Peak	

Report No.: BTL-FCCP-1-1611C193C





### Vertical



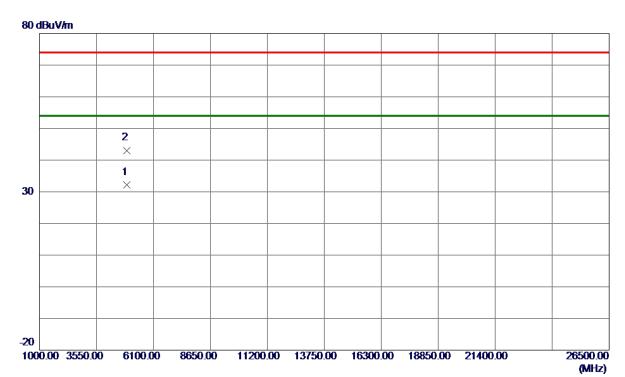
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454.4000	88. 64	8. 98	97.62	54.00	43.62	AVG	No Limit
2	2456. 2000	97.49	8. 98	106. 47	74.00	32.47	Peak	No Limit
3	2483. 5000	56.88	8. 97	65.85	74.00	-8. 15	Peak	
4	2483. 5000	41.97	8. 97	50. 94	54.00	-3.06	AVG	

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### Vertical



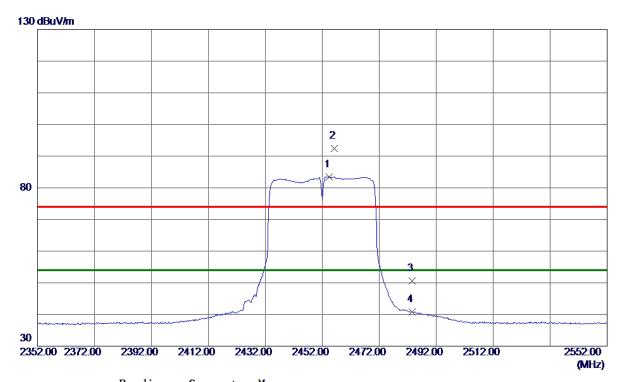
No.	Freq.	Reading Level	Correct Factor	$_{\tt Measure}^{\tt Measure}$	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4903. 9580	26. 29	5. 98	32. 27	54.00	-21.73	AVG	
2	4904. 0840	37. 12	5. 98	43. 10	74. 00	-30, 90	Peak	

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### Horizontal



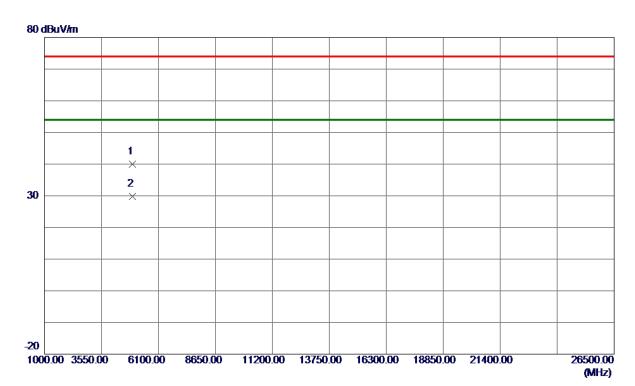
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454.4000	74. 50	8. 98	83.48	54.00	29.48	AVG	No Limit
2	2456. 2000	83.48	8. 98	92.46	74.00	18.46	Peak	No Limit
3	2483. 5000	41.65	8. 97	50.62	74.00	-23. 38	Peak	
4	2483. 5000	31.86	8. 97	40.83	54.00	-13. 17	AVG	

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### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 3000	33. 97	6. 03	40.00	74.00	-34.00	Peak	
2 *	4927. 2000	23.82	6. 04	29.86	54.00	-24. 14	AVG	

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APPENDIX E - BANDWIDTH

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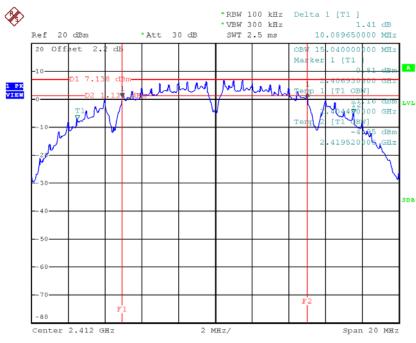




### Test Mode: TX B Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.09	15.04	500	Complies
2437	10.14	15.04	500	Complies
2462	10.14	15.08	500	Complies

### **TX CH01**

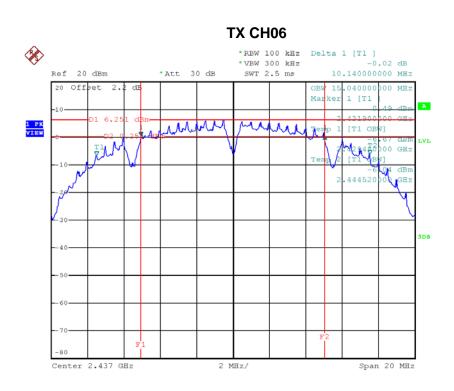


Date: 14.MAY.2018 16:23:52

Report No.: BTL-FCCP-1-1611C193C Page 95 of 138







Date: 14.MAY.2018 16:26:04

# \*REW 100 kHz Delta 1 [T1 ] \*VEW 300 kHz 0.32 dB \*VEW 300 kHz 0.32 dB \*VEW 300 kHz 0.140000000 MHz \*Ref 20 dBm \*Att 30 dB SWT 2.5 ms 10.140000000 MHz \*Marker 1 [T1 0.1 dbm 1.0 db

Date: 14.MAY.2018 16:27:52

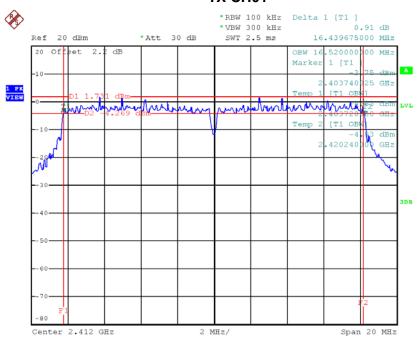




# Test Mode: TX G Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.44	16.52	500	Complies
2437	16.4	16.52	500	Complies
2462	16.42	16.48	500	Complies

### **TX CH01**

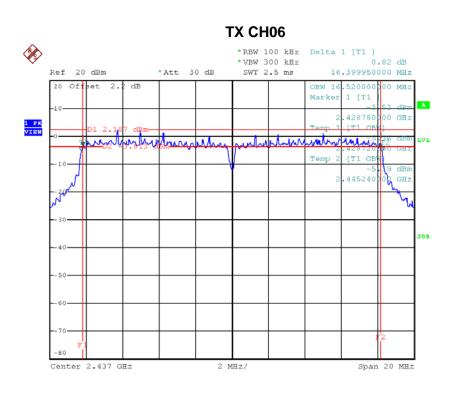


Date: 14.MAY.2018 16:29:41

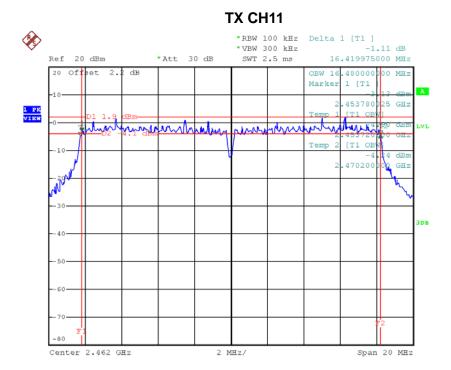
Report No.: BTL-FCCP-1-1611C193C Page 97 of 138







Date: 14.MAY.2018 16:31:26



Date: 14.MAY.2018 16:33:08

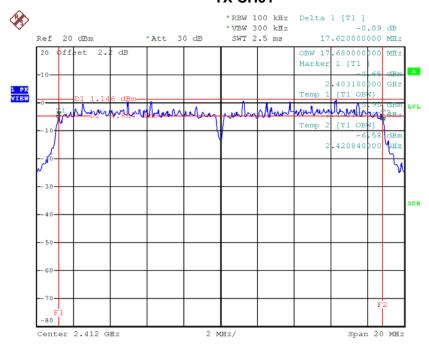




# Test Mode: TX N-20MHz Mode\_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.68	500	Complies
2437	17.6	17.64	500	Complies
2462	17.66	17.64	500	Complies

### **TX CH01**

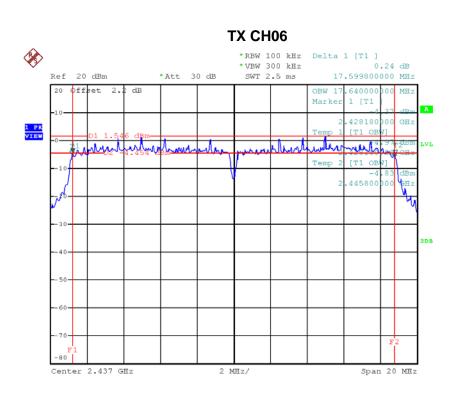


Date: 14.MAY.2018 16:34:38

Report No.: BTL-FCCP-1-1611C193C







Date: 14.MAY.2018 16:35:55

# \*RBW 100 kHz Delta 1 [T1 ] \*VBW 300 kHz 0.16 dB Ref 20 dBm \*Att 30 dB SWT 2.5 ms 17.660000000 MHz 20 Offset 2.2 dB OBM Aarker 1 [T1 ] -10 2.453140000 GHz Temp 1 [T1 OBW] -10 2.470800000 GHz Temp 2 [T1 OBW] -30 30B

2 MHz/

Span 20 MHz

**TX CH11** 

Date: 14.MAY.2018 16:37:11

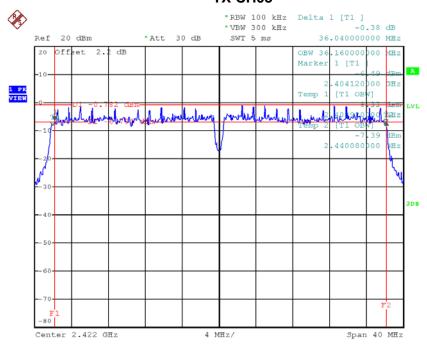




# Test Mode: TX N-40MHz Mode\_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.04	36.16	500	Complies
2437	36.48	36.16	500	Complies
2452	36.24	36.24	500	Complies

### **TX CH03**

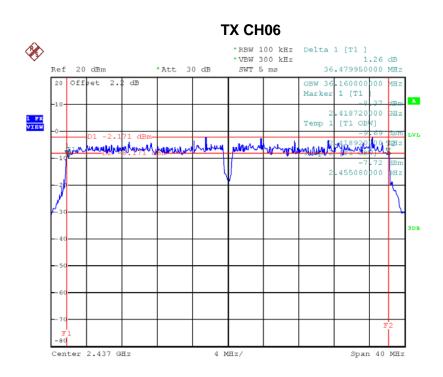


Date: 14.MAY.2018 16:38:37

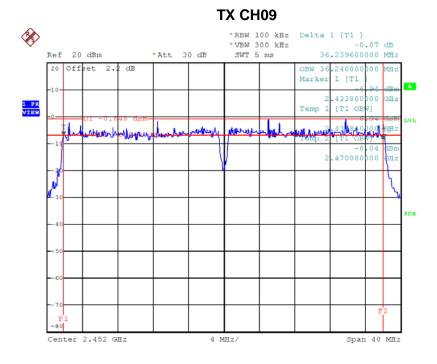
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Date: 14.MAY.2018 16:40:11



Date: 14.MAY.2018 16:41:45





APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

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Test Mode :TX B Mode_CH01/06/11					
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	16.53	0.04	30.00	1.00	Complies
2437	16.39	0.04	30.00	1.00	Complies
2462	16.52	0.04	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	
2412	13.47	0.02	30.00	1.00	Complies
2437	13.53	0.02	30.00	1.00	Complies
2462	13.71	0.02	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11					
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	12.41	0.02	30.00	1.00	Complies
2437	12.84	0.02	30.00	1.00	Complies
2462	12.47	0.02	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	
2422	11.81	0.02	30.00	1.00	Complies
2437	12.53	0.02	30.00	1.00	Complies
2452	12.64	0.02	30.00	1.00	Complies

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APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

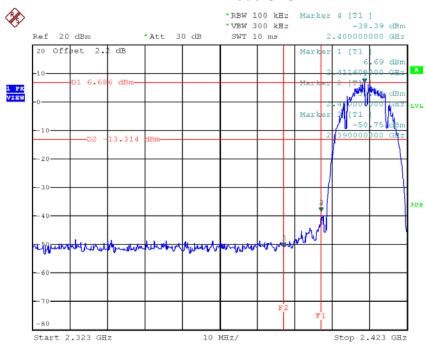
Report No.: BTL-FCCP-1-1611C193C Page 105 of 138





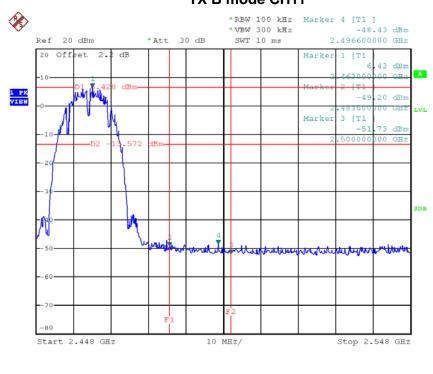






Date: 14.MAY.2018 16:23:59

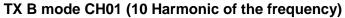
# TX B mode CH11

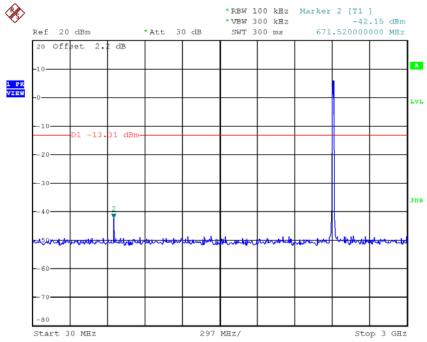


Date: 14.MAY.2018 16:27:59

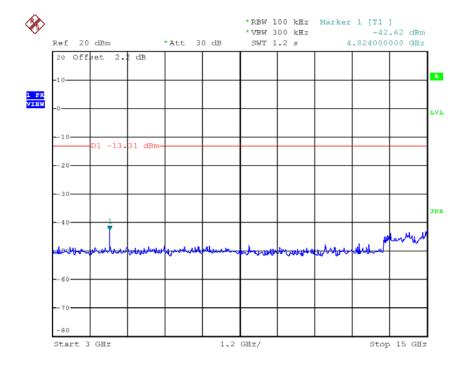








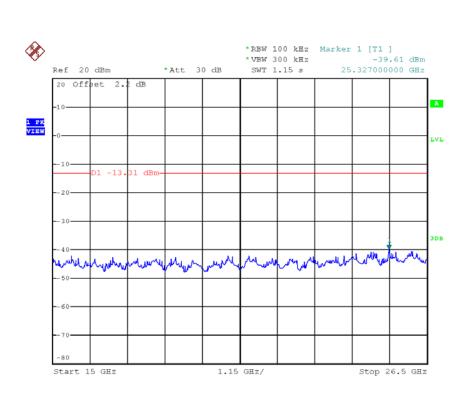
Date: 14.MAY.2018 16:24:11



Date: 14.MAY.2018 16:24:18

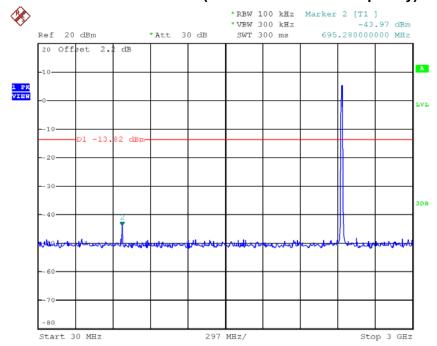






Date: 14.MAY.2018 16:24:25

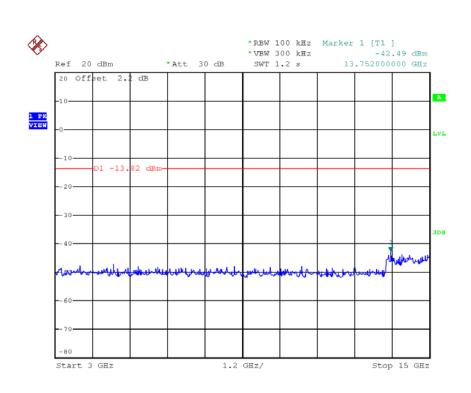
# TX B mode CH06 (10 Harmonic of the frequency)



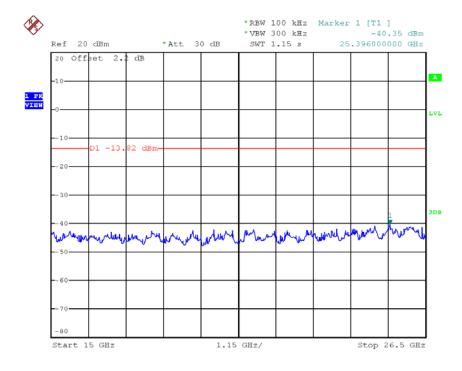
Date: 14.MAY.2018 16:26:24







Date: 14.MAY.2018 16:26:31

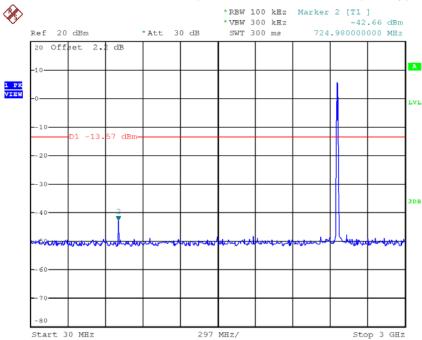


Date: 14.MAY.2018 16:26:37

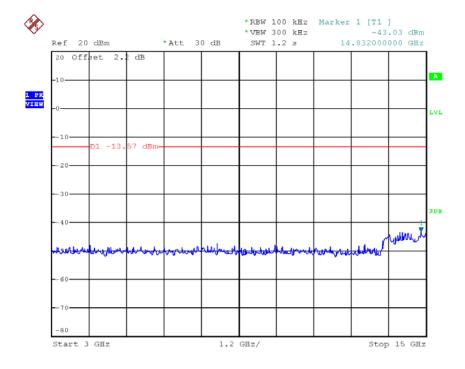








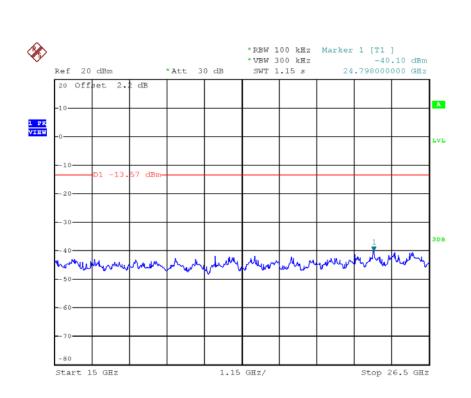
Date: 14.MAY.2018 16:28:12



Date: 14.MAY.2018 16:28:19





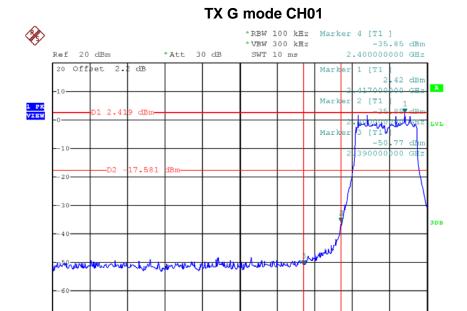


Date: 14.MAY.2018 16:28:25









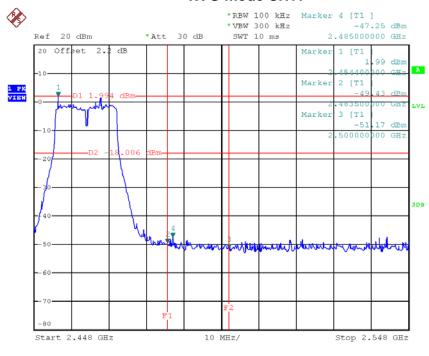
Date: 14.MAY.2018 16:30:05

Start 2.323 GHz

## TX G mode CH11

Stop 2.423 GHz

10 MHz/

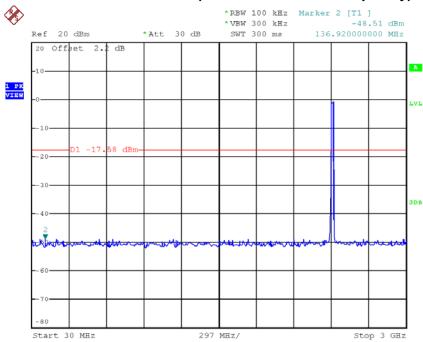


Date: 14.MAY.2018 16:33:15

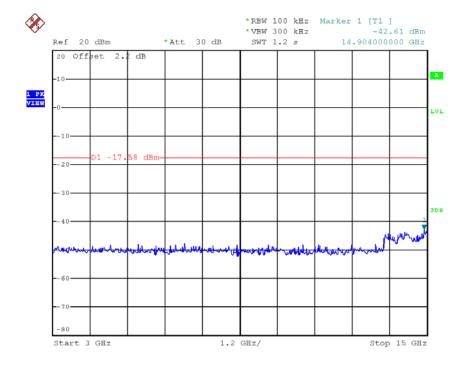








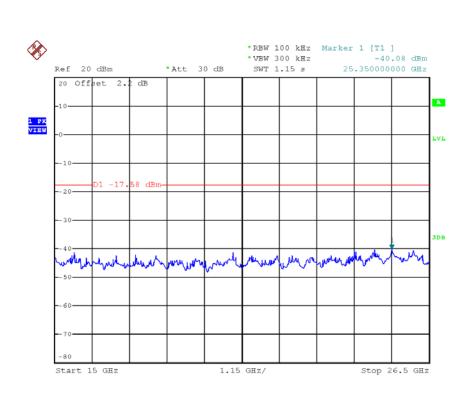
Date: 14.MAY.2018 16:30:17



Date: 14.MAY.2018 16:30:24

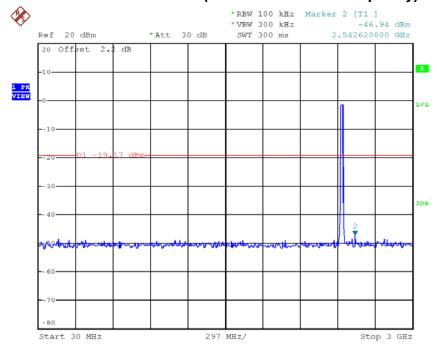






Date: 14.MAY.2018 16:30:31

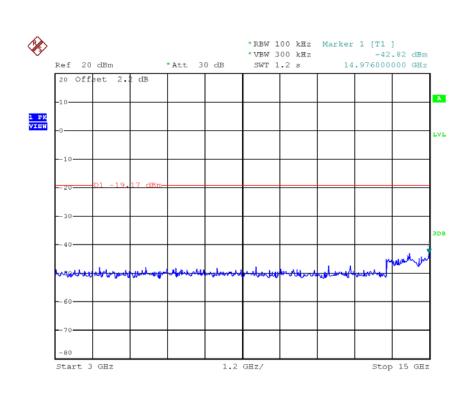
# TX G mode CH06 (10 Harmonic of the frequency)



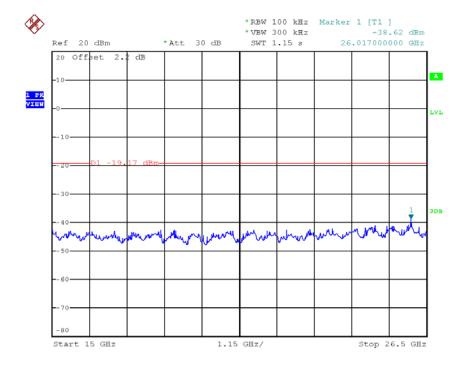
Date: 14.MAY.2018 16:32:03







Date: 14.MAY.2018 16:32:10

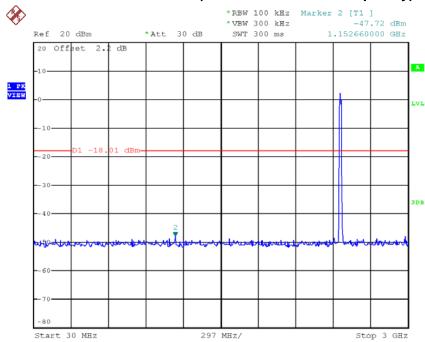


Date: 14.MAY.2018 16:32:17

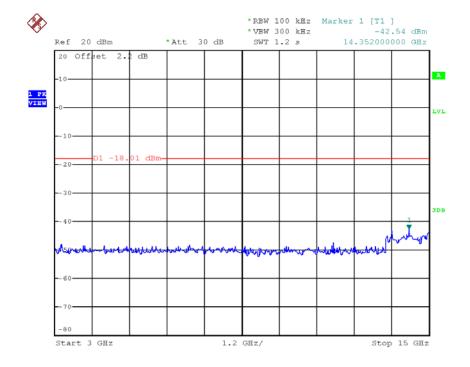








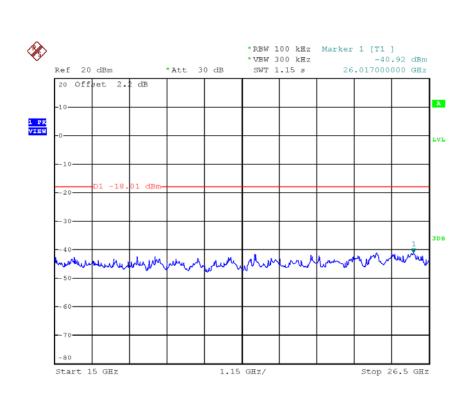
Date: 14.MAY.2018 16:33:28



Date: 14.MAY.2018 16:33:34





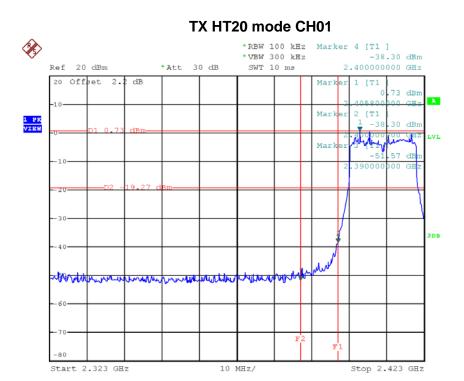


Date: 14.MAY.2018 16:33:41



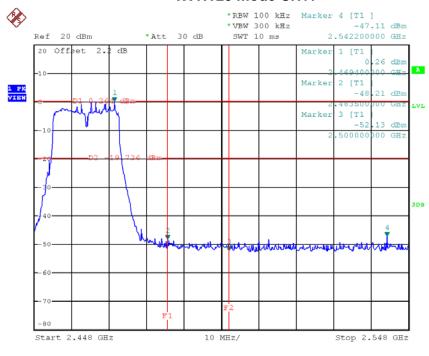


## Test Mode: TX N-20M Mode



Date: 14.MAY.2018 16:34:45

## TX HT20 mode CH11

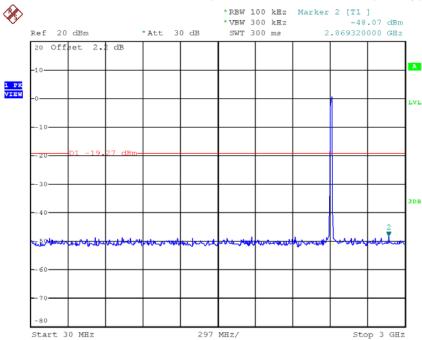


Date: 14.MAY.2018 16:37:18

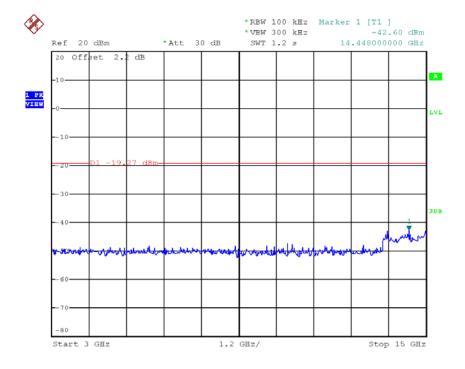








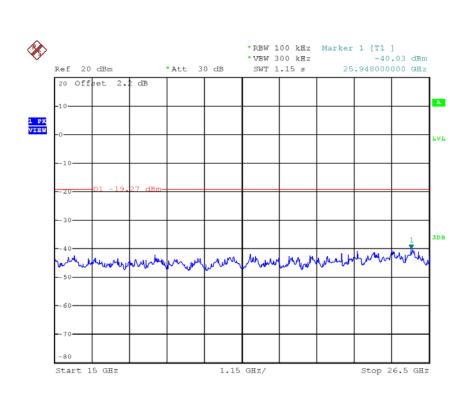
Date: 14.MAY.2018 16:34:57



Date: 14.MAY.2018 16:35:04

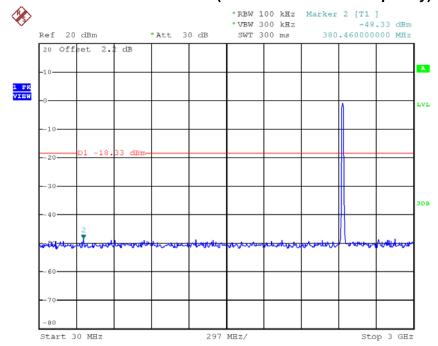






Date: 14.MAY.2018 16:35:11

# TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 14.MAY.2018 16:36:15