

FCC Radio Test Report

FCC ID: Q3N-9700A

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

Project No. : 1611066
Equipment : Mobile Computer
Test Model : 9700A
Series Model : N/A
Applicant : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan

Date of Receipt : Nov. 22, 2016
Date of Test : Nov. 22, 2016 ~ Jan. 13, 2017
Issued Date : Jan. 17, 2017
Tested by : BTL Inc.

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

Authorized Signatory : Andy Chiu
(Andy Chiu)

B T L I N C .

B1, No.37, Lane 365, Yang Guang St.,
Nei-Hu District, Taipei City 114, Taiwan.
TEL:+886-2-2657-3299 FAX: +886-2-2657-3331

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.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL's** authorized written approval.

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

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.

Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	12
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	13
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	14
3.5 DESCRIPTION OF SUPPORT UNITS	14
4 . EMC EMISSION TEST	15
4.1 CONDUCTED EMISSION MEASUREMENT	15
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	15
4.1.2 TEST PROCEDURE	15
4.1.3 DEVIATION FROM TEST STANDARD	15
4.1.4 TEST SETUP	16
4.1.5 EUT OPERATING CONDITIONS	16
4.1.6 EUT TEST CONDITIONS	16
4.1.7 TEST RESULTS	16
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 RADIATED EMISSION LIMITS	17
4.2.2 TEST PROCEDURE	18
4.2.3 DEVIATION FROM TEST STANDARD	18
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS	20
4.2.6 EUT TEST CONDITIONS	20
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	20
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	20
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	20
5 . BANDWIDTH TEST	21
5.1 APPLIED PROCEDURES	21
5.1.1 TEST PROCEDURE	21
5.1.2 DEVIATION FROM STANDARD	21
5.1.3 TEST SETUP	21
5.1.4 EUT OPERATION CONDITIONS	21
5.1.5 EUT TEST CONDITIONS	21
5.1.6 TEST RESULTS	21
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	22

Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	22
6.1.1 TEST PROCEDURE	22
6.1.2 DEVIATION FROM STANDARD	22
6.1.3 TEST SETUP	22
6.1.4 EUT OPERATION CONDITIONS	22
6.1.5 EUT TEST CONDITIONS	22
6.1.6 TEST RESULTS	22
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	23
7.1 APPLIED PROCEDURES / LIMIT	23
7.1.1 TEST PROCEDURE	23
7.1.2 DEVIATION FROM STANDARD	23
7.1.3 TEST SETUP	23
7.1.4 EUT OPERATION CONDITIONS	23
7.1.5 EUT TEST CONDITIONS	23
7.1.6 TEST RESULTS	23
8 . POWER SPECTRAL DENSITY TEST	24
8.1 APPLIED PROCEDURES / LIMIT	24
8.1.1 TEST PROCEDURE	24
8.1.2 DEVIATION FROM STANDARD	24
8.1.3 TEST SETUP	24
8.1.4 EUT OPERATION CONDITIONS	24
8.1.5 EUT TEST CONDITIONS	24
8.1.6 TEST RESULTS	24
9 . MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
ATTACHMENT A - CONDUCTED EMISSION	33
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	36
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	45
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	50
ATTACHMENT E - BANDWIDTH	99
ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	108
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	110
ATTACHMENT H - POWER SPECTRAL DENSITY	135

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1611066	Original Issue.	Jan. 17, 2017

1. CERTIFICATION

Equipment : Mobile Computer
Brand Name : CIPHERLAB
Test Model : 9700A
Series Model : N/A
Applicant : CIPHERLAB CO., LTD.
Manufacturer : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan
Factory : CIPHERLAB CO., LTD. 2nd
Address : 7 F., No. 198 and 7F., No. 196, Sec. 3, Da Tong Rd., Shiji Dist., New Taipei City 221, Taiwan.
Date of Test : Nov. 22, 2016 ~ Jan. 13, 2017
Test Sample : Engineering Sample
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-3-1611066) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
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.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB15: (FCC RN:674415; FCC DN:TW0659)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	3.06

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.76
		30MHz ~ 200MHz	H	4.28
		200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	H	4.50

Test Site	Method	Measurement Frequency Range	Ant.	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.48
		1GHz ~ 6GHz	H	4.50
		6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	H	4.14

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (1m)	CISPR	18 ~ 26.5 GHz	4.72
		26.5 ~ 40 GHz	5.20

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Computer	
Brand Name	CIPHERLAB	
Test Model	9700A	
Series Model	N/A	
Model Difference	N/A	
Output Power (Max.)	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 150 Mbps
	Output Power (Max.)	802.11b: 19.62dBm 802.11g: 23.03dBm 802.11n(20MHz): 23.01dBm 802.11n(40MHz): 21.43dBm
Power Source	# 1 Supplied from battery. # 2 DC voltage supplied from External Power Supply.	
Power Rating	# 1 (1) Main Battery (BA-0083A6): 3.7V --- 3600 mAh 13.32Wh (2) Backup battery (US302135H5, charged by Main Battery): 3.8V --- 215 mAh # 2 I/P: 100-240V~ 50-60 Hz 0.58A O/P: 5V --- 4A	
Products Covered	1 * Snap-On Cable: SNP-9700-USB 1 * Main Battery Pack: Li-ion / BA-0083A6 1 * Backup Battery: CIPHERLAB / US302135H5 1 * External Power Supply: ADAPTER TECH. / ATS024T-A050 1 * Pistol (optional): PST9700	

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)	Note
1	NA	NA	PIFA	N/A	1.52	NA

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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

Note:

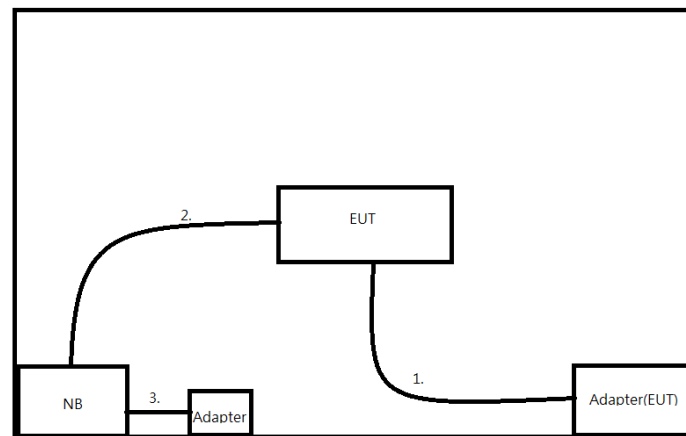
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (6.5Mbps)
 802.11n HT40 mode : BPSK (13.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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%.
- (5) Orthogonal axis Z is found to be the worst case and recorded.

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	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	20	20	20
802.11g	18	18	18
802.11n (20MHz)	18	18	18
Frequency	2422	2437	2452
802.11n (40MHz)	16	16	16

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.
A	NB	ACER	Z8C	N/A	N/A
B	Adapter	Acer	A13-045N2A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1.5m	Power Cable
2	YES	YES	1.8m	USB Cable
3	NO	YES	1.5m	Power Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	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

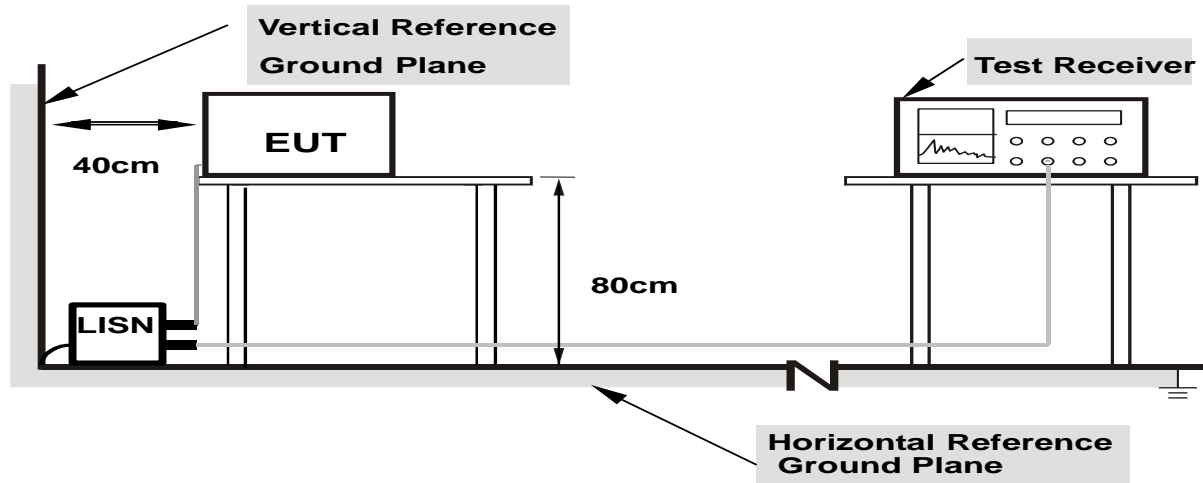
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (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 (Emission in restricted band)	1MHz / 3MHz for Peak, 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

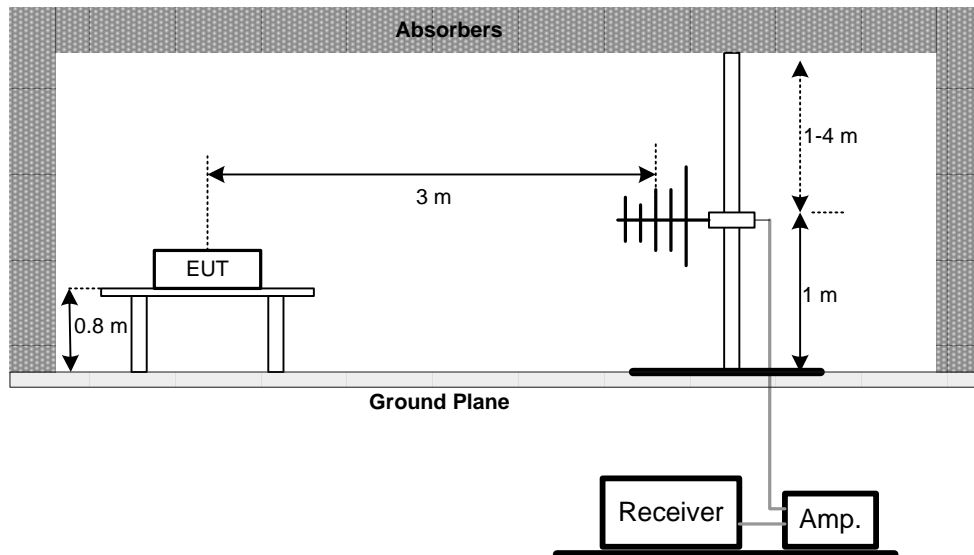
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

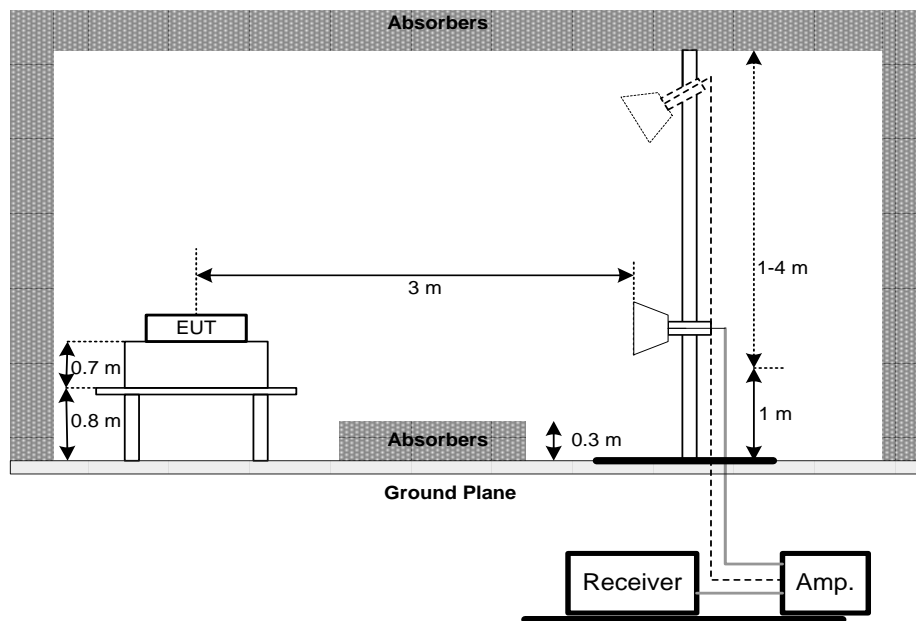
No deviation

4.2.4 TEST SETUP

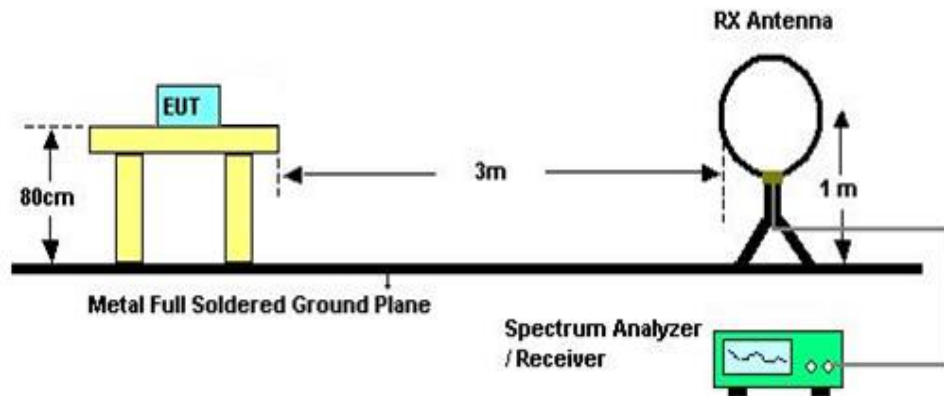
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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 Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

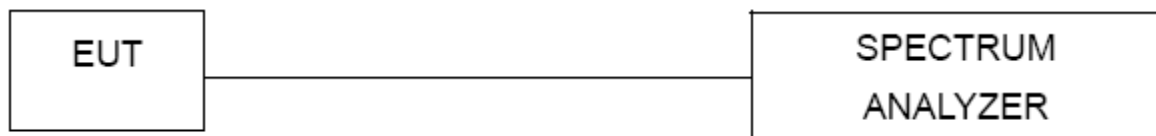
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT 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 Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

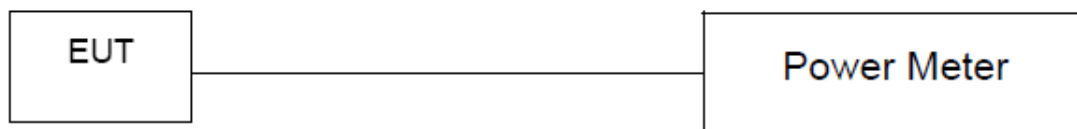
6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- 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



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 Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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.

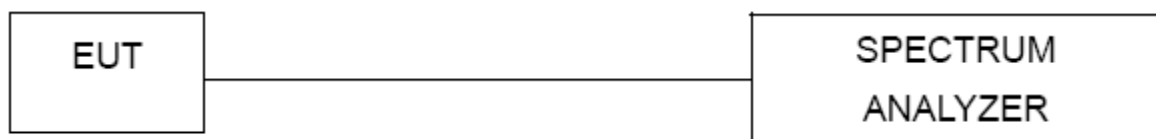
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



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 Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

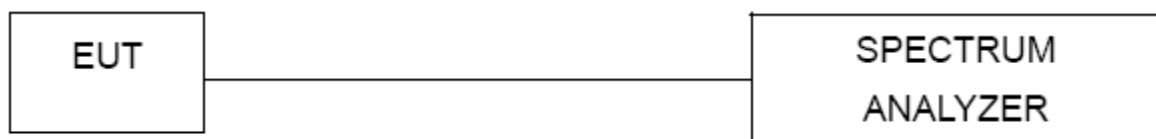
8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT 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 Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Mar.01,2017
2	Preamplifier	EMCI	EMC02325	980217	Dec.29,2017
3	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan.04,2018
4	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan.04,2018
5	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan.04,2018
6	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan.09,2018
7	Signal Analyzer	Agilent	N9010A	MY52220990	Feb.23,2017
8	Loop Ant	EMCO	6502	42960	Nov.24,2017
9	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Mar.01,2017
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan.17,2017
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan.17,2017

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 17, 2017
2	Power Sensor	Anritsu	MA2411B	1126001	Aug. 17, 2017

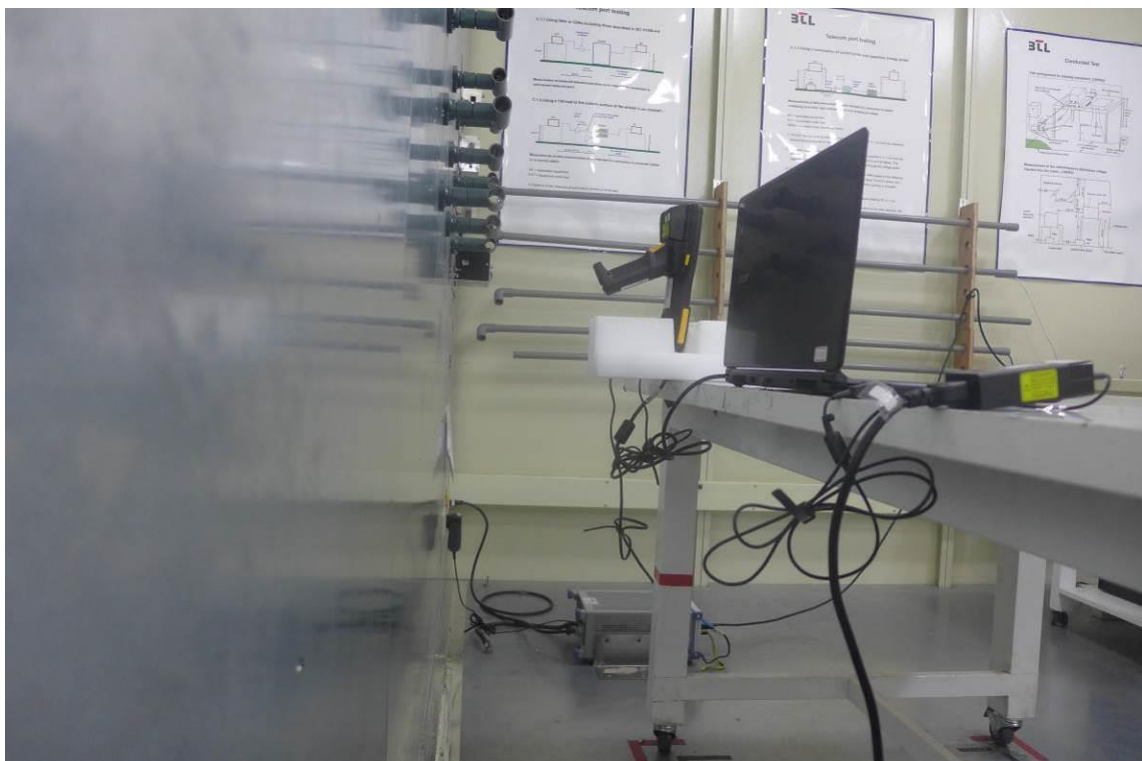
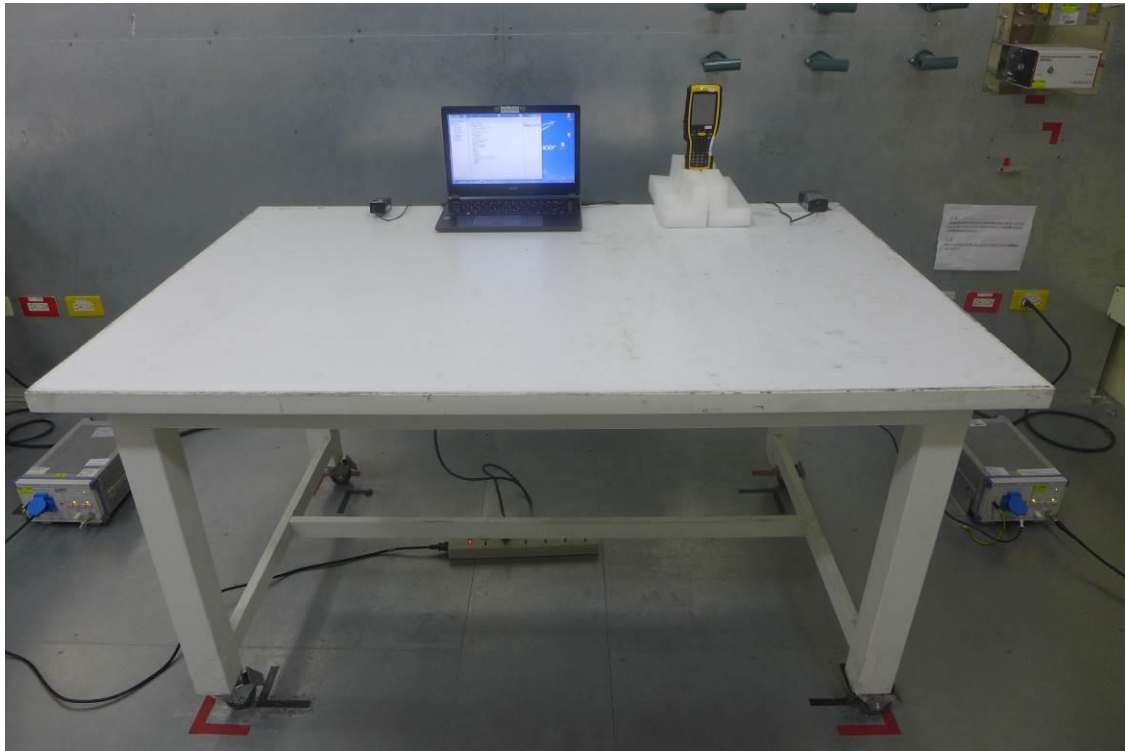
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 27, 2017

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

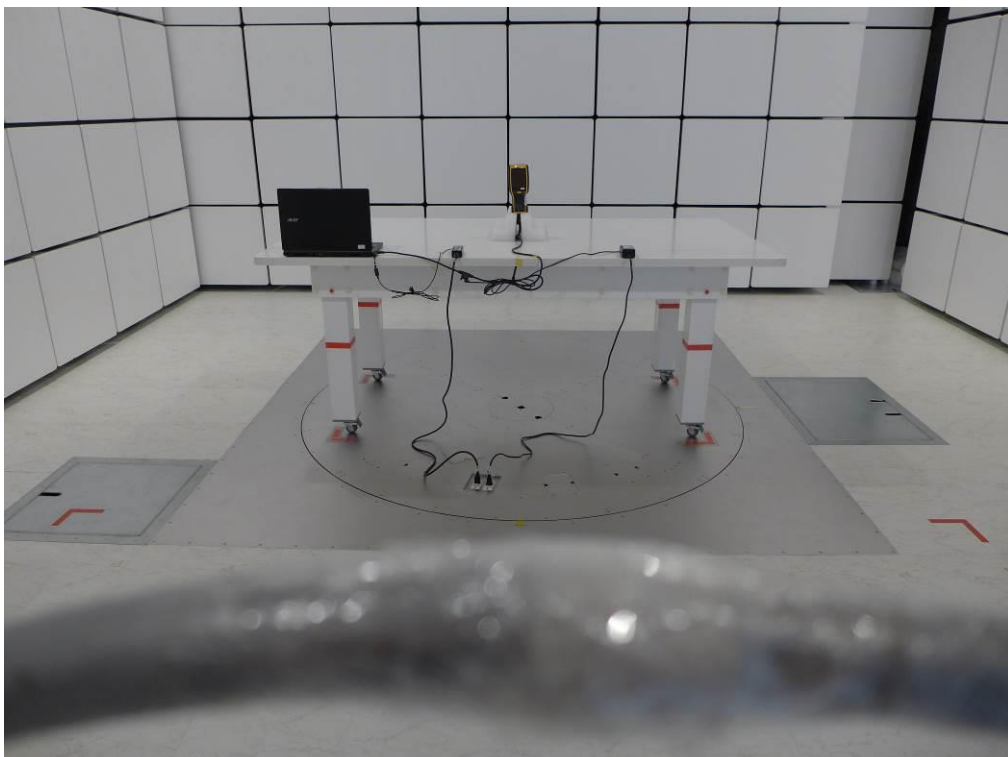
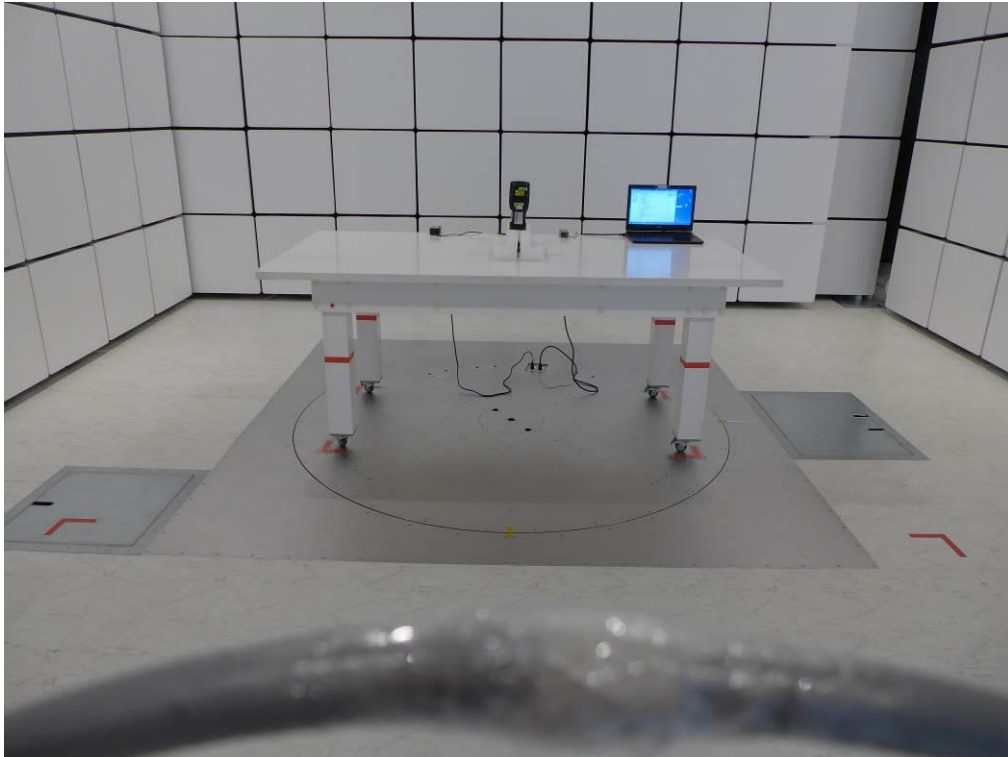
10. EUT TEST PHOTO

Conducted Measurement Photos



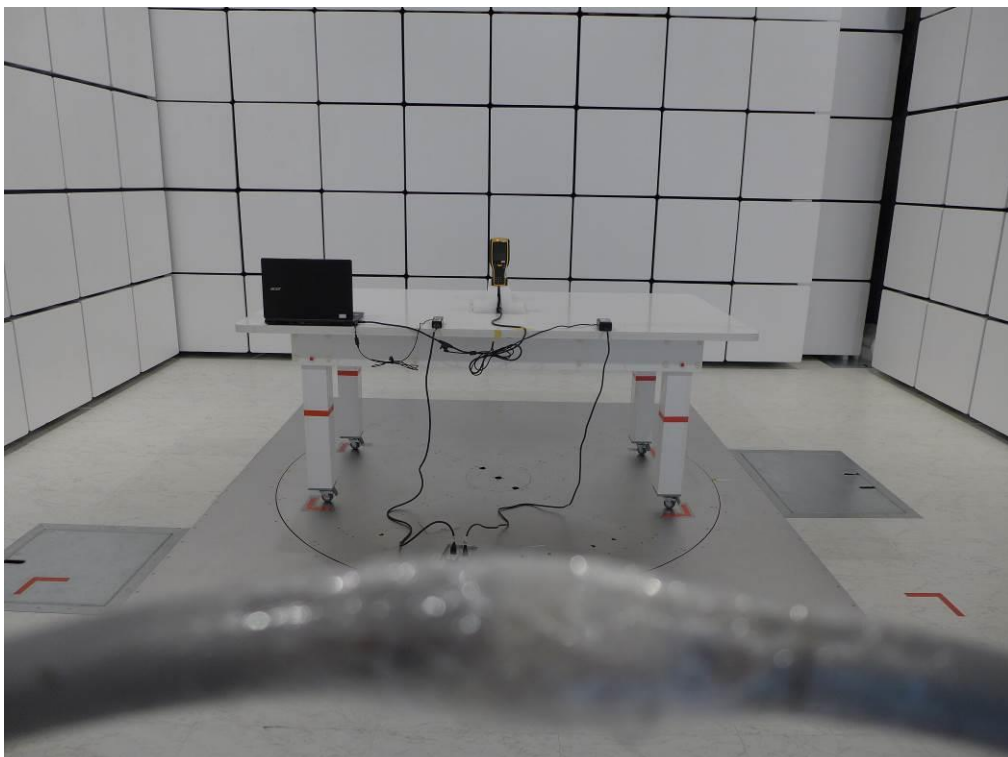
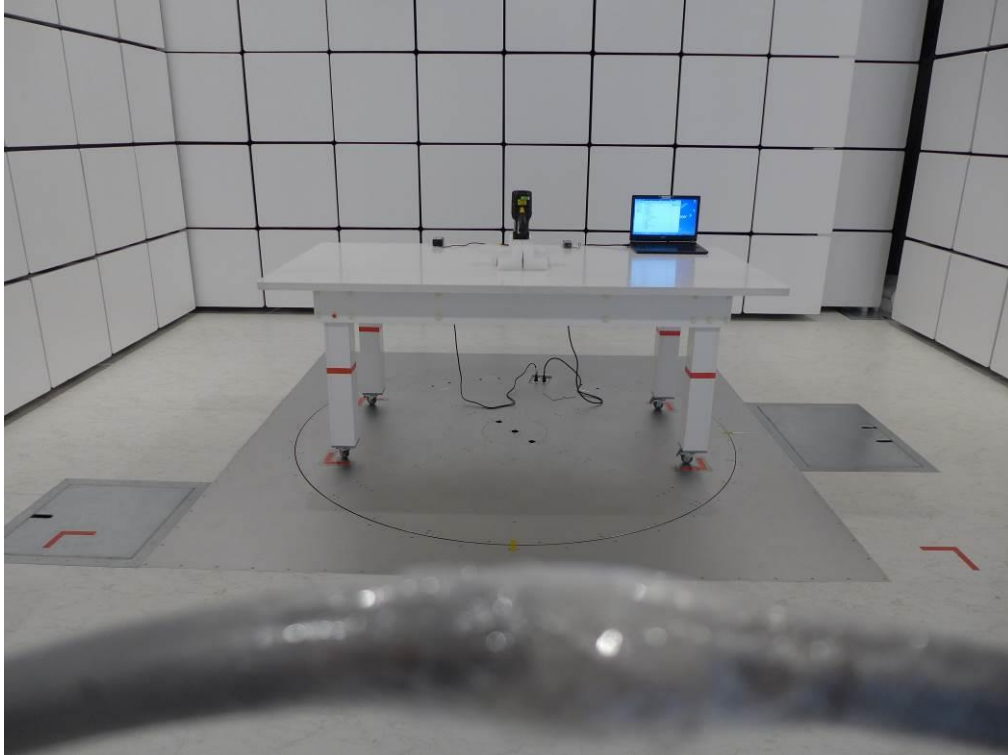
Radiated Measurement Photos

**9KHz to 30MHz
Without Pistol**



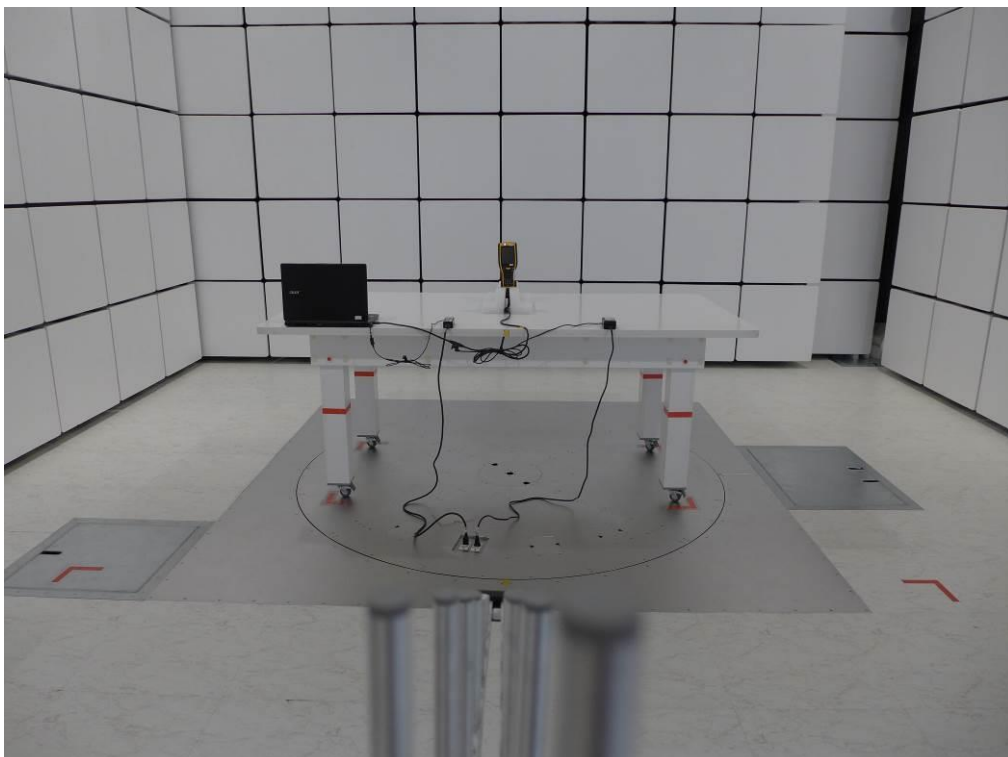
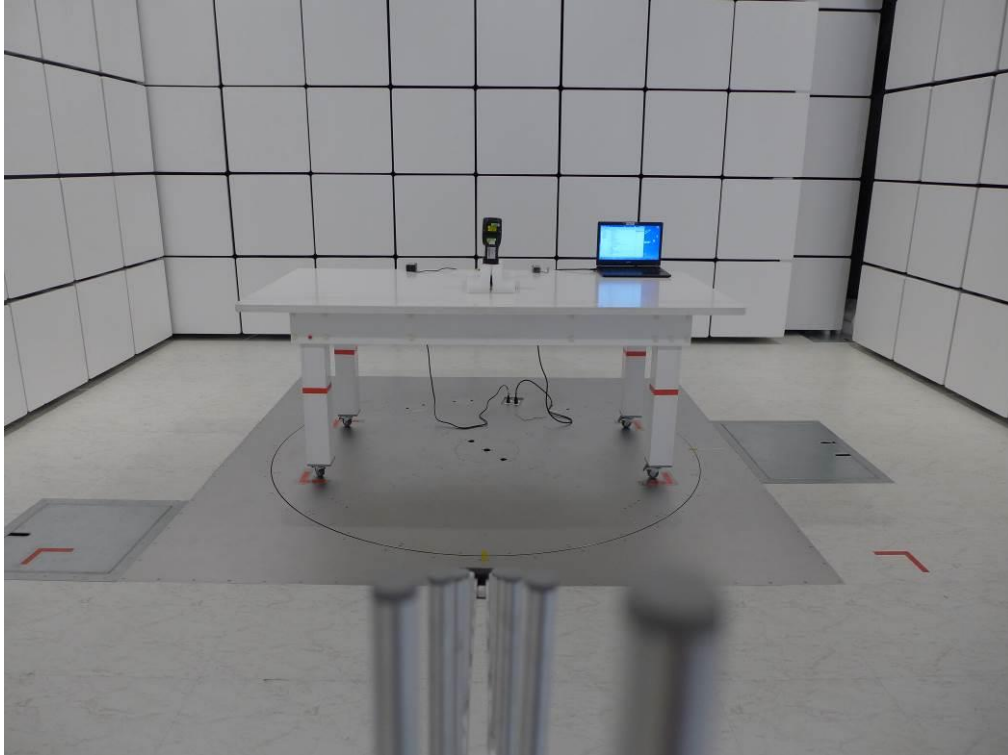
Radiated Measurement Photos

9KHz to 30MHz
With Pistol



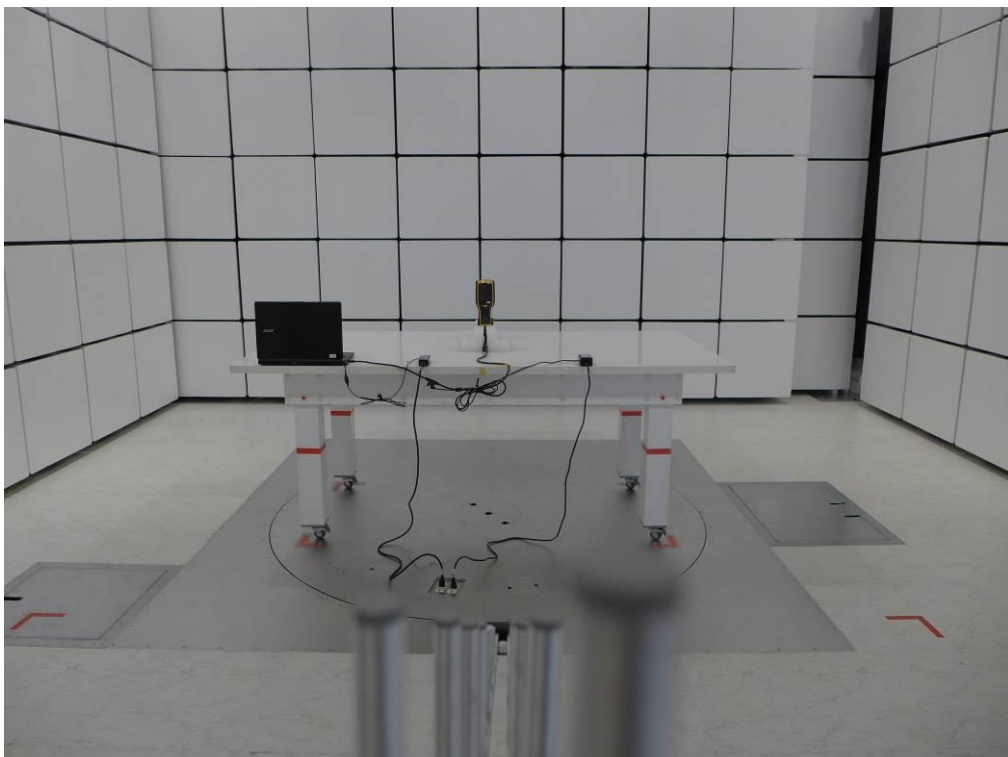
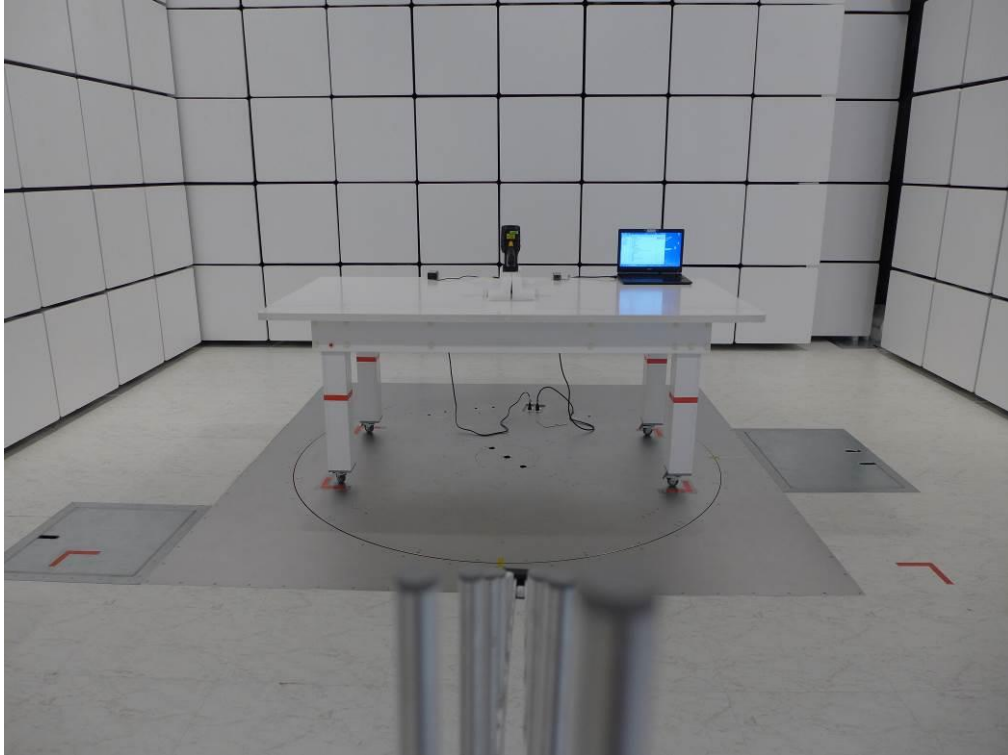
Radiated Measurement Photos

**Below 1GHz
Without Pistol**



Radiated Measurement Photos

**Below 1GHz
With Pistol**



Radiated Measurement Photos

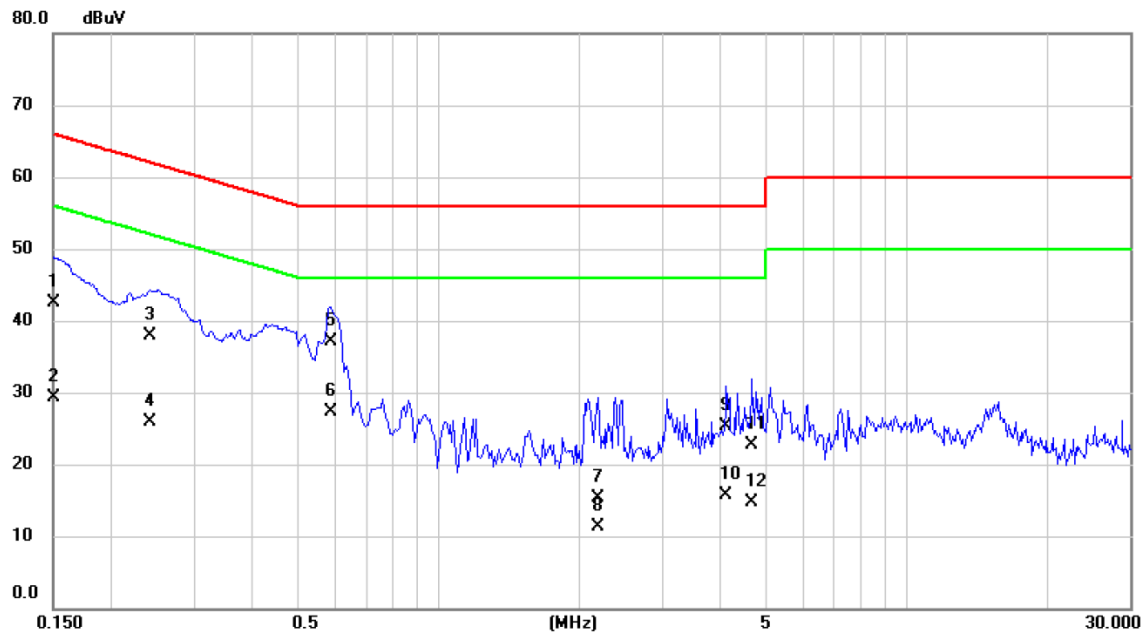
**Above 1GHz
Without Pistol**



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

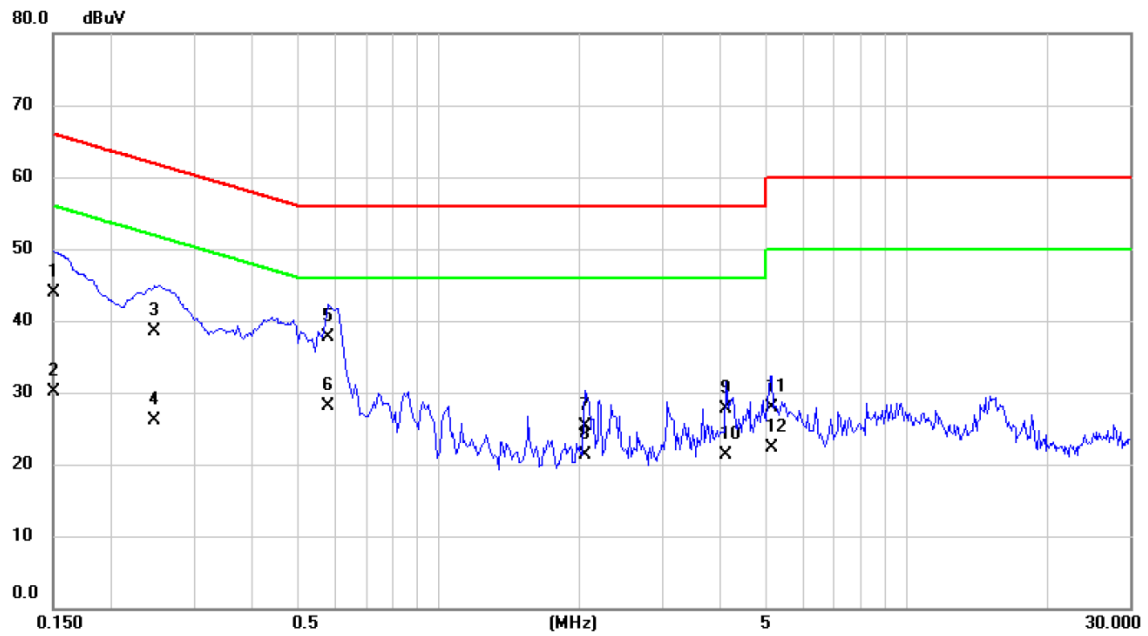
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	32.80	9.66	42.46	66.00	-23.54	QP	
2		0.1500	19.60	9.66	29.26	56.00	-26.74	AVG	
3		0.2410	28.30	9.66	37.96	62.06	-24.10	QP	
4		0.2410	16.30	9.66	25.96	52.06	-26.10	AVG	
5		0.5900	27.40	9.67	37.07	56.00	-18.93	QP	
6	*	0.5900	17.60	9.67	27.27	46.00	-18.73	AVG	
7		2.1920	5.50	9.73	15.23	56.00	-40.77	QP	
8		2.1920	1.50	9.73	11.23	46.00	-34.77	AVG	
9		4.1180	15.50	9.79	25.29	56.00	-30.71	QP	
10		4.1180	5.90	9.79	15.69	46.00	-30.31	AVG	
11		4.6670	12.90	9.80	22.70	56.00	-33.30	QP	
12		4.6670	4.90	9.80	14.70	46.00	-31.30	AVG	

Test Mode : Normal Link

Neutral

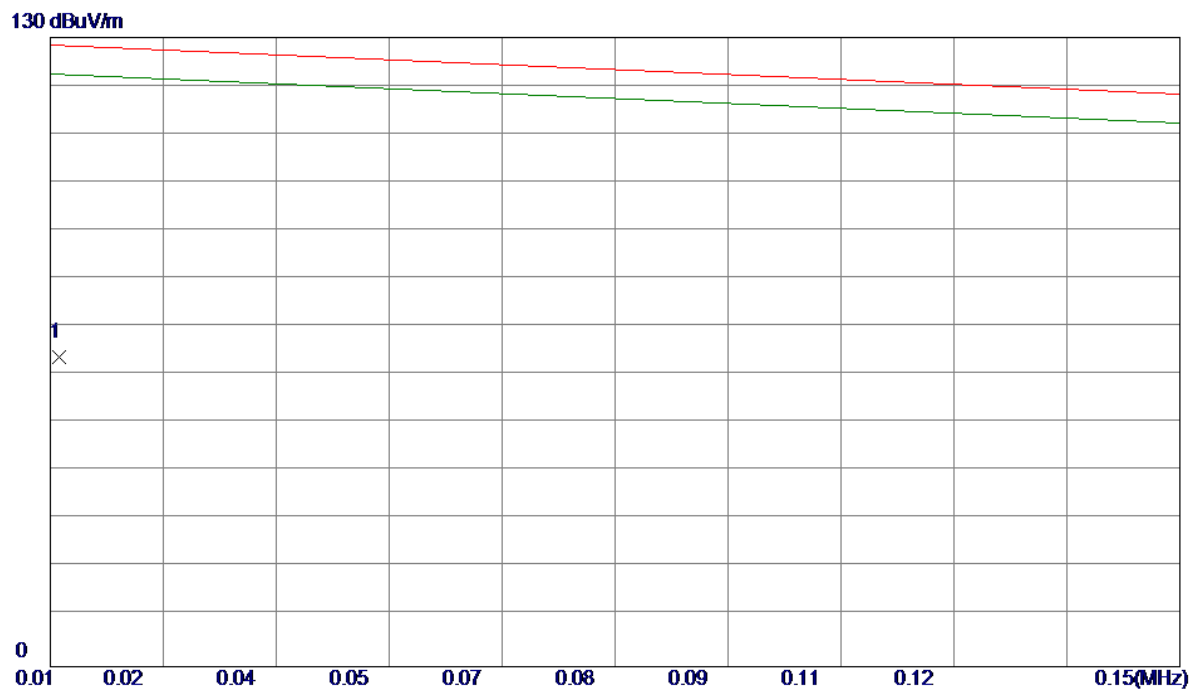


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.30	9.67	43.97	66.00	-22.03	QP	
2		0.1500	20.40	9.67	30.07	56.00	-25.93	AVG	
3		0.2473	28.80	9.66	38.46	61.85	-23.39	QP	
4		0.2473	16.40	9.66	26.06	51.85	-25.79	AVG	
5		0.5810	28.10	9.67	37.77	56.00	-18.23	QP	
6	*	0.5810	18.50	9.67	28.17	46.00	-17.83	AVG	
7		2.0570	15.50	9.74	25.24	56.00	-30.76	QP	
8		2.0570	11.50	9.74	21.24	46.00	-24.76	AVG	
9		4.1180	18.00	9.79	27.79	56.00	-28.21	QP	
10		4.1180	11.60	9.79	21.39	46.00	-24.61	AVG	
11		5.1500	18.00	9.82	27.82	60.00	-32.18	QP	
12		5.1500	12.40	9.82	22.22	50.00	-27.78	AVG	

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

Test Mode: TX B MODE CHANNEL 01_Without Pistol

Ant 0°

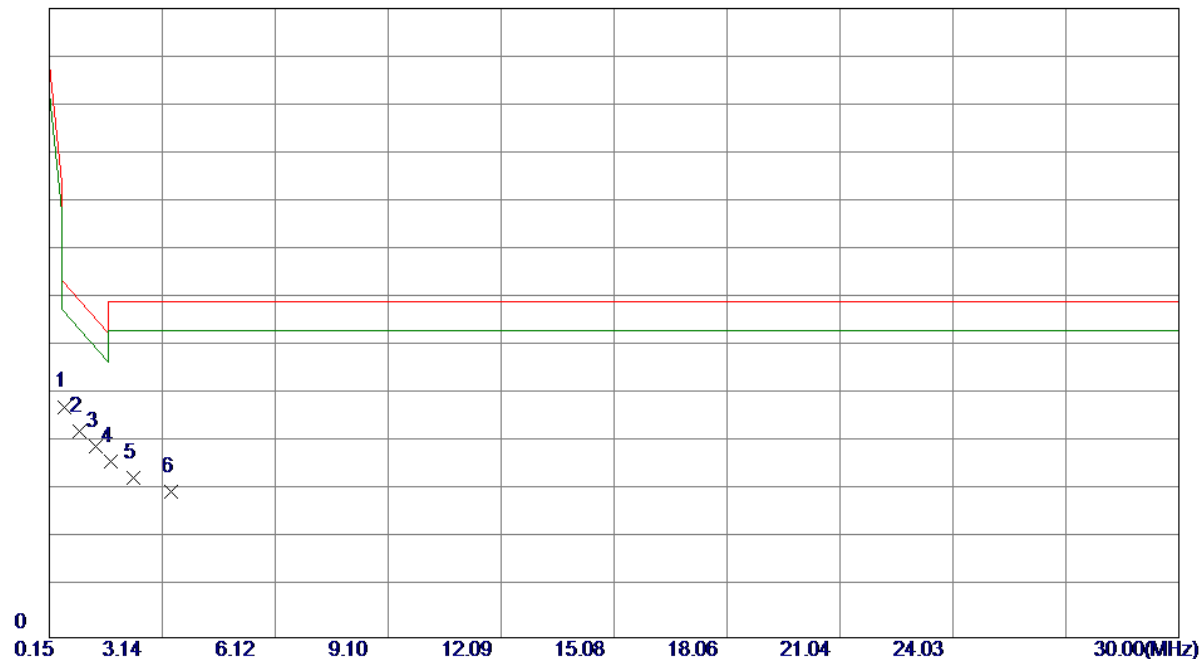


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	Factor	ment	dBuV/m	dB	Detector	Comment
1 *	0.0101	43.46	20.47	63.93	128.43	-64.50	Peak	

Test Mode: TX B MODE CHANNEL 01_Without Pistol

Ant 0°

130 dBuV/m

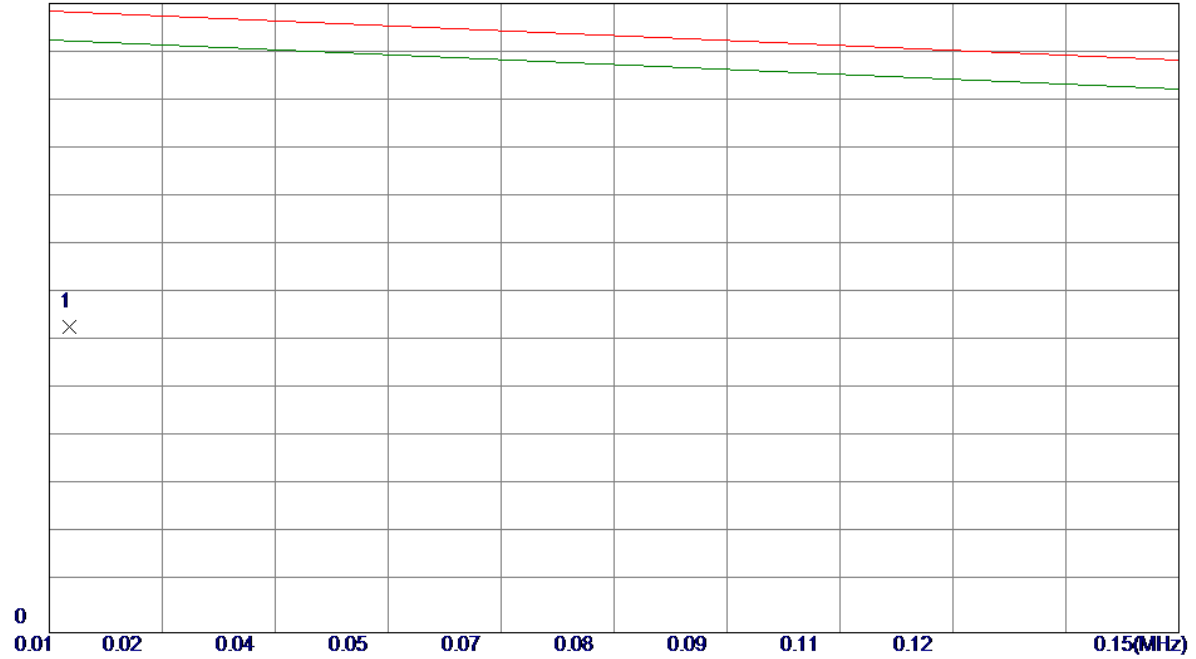


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5381	35.89	11.82	47.71	73.37	-25.66	Peak	
2	0.9560	30.64	11.98	42.62	69.65	-27.03	Peak	
3	1.3740	27.66	11.83	39.49	65.92	-26.43	Peak	
4	1.7917	24.75	11.64	36.39	69.54	-33.15	Peak	
5	2.3590	21.71	11.39	33.10	69.54	-36.44	Peak	
6	3.3738	19.08	11.16	30.24	69.54	-39.30	Peak	

Test Mode:	TX B MODE CHANNEL 01_Without Pistol
------------	-------------------------------------

Ant 90°

130 dBuV/m

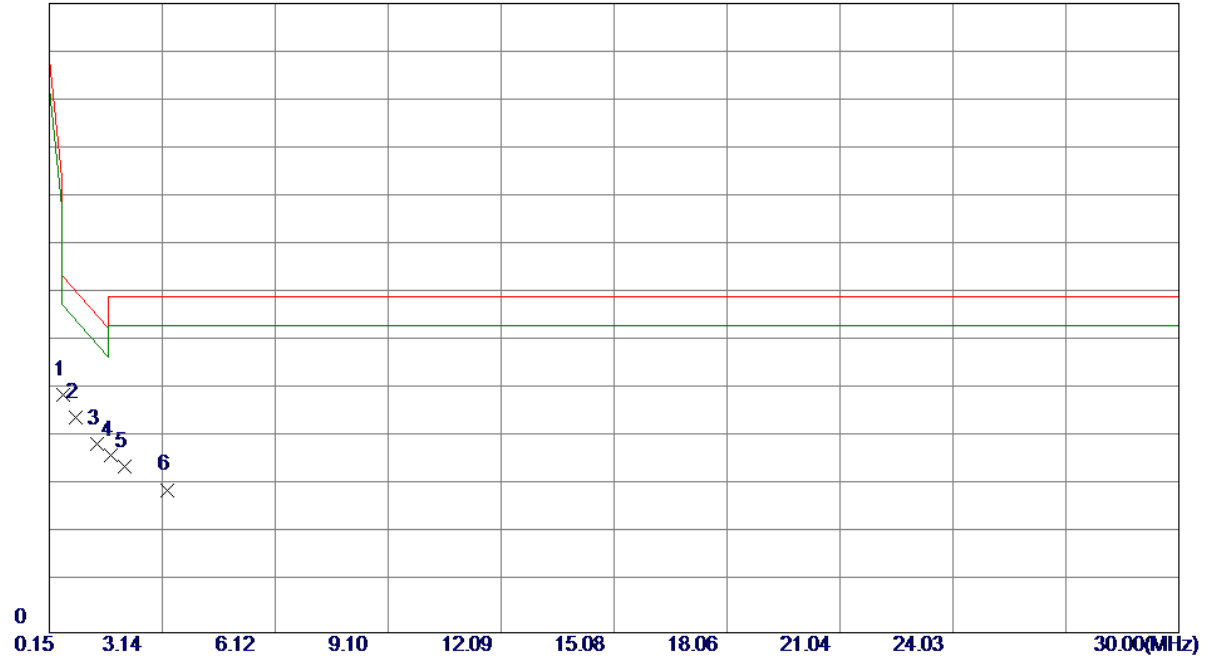


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0115	43.11	20.09	63.20	128.33	-65.13	Peak	

Test Mode: TX B MODE CHANNEL 01_Without Pistol

Ant 90°

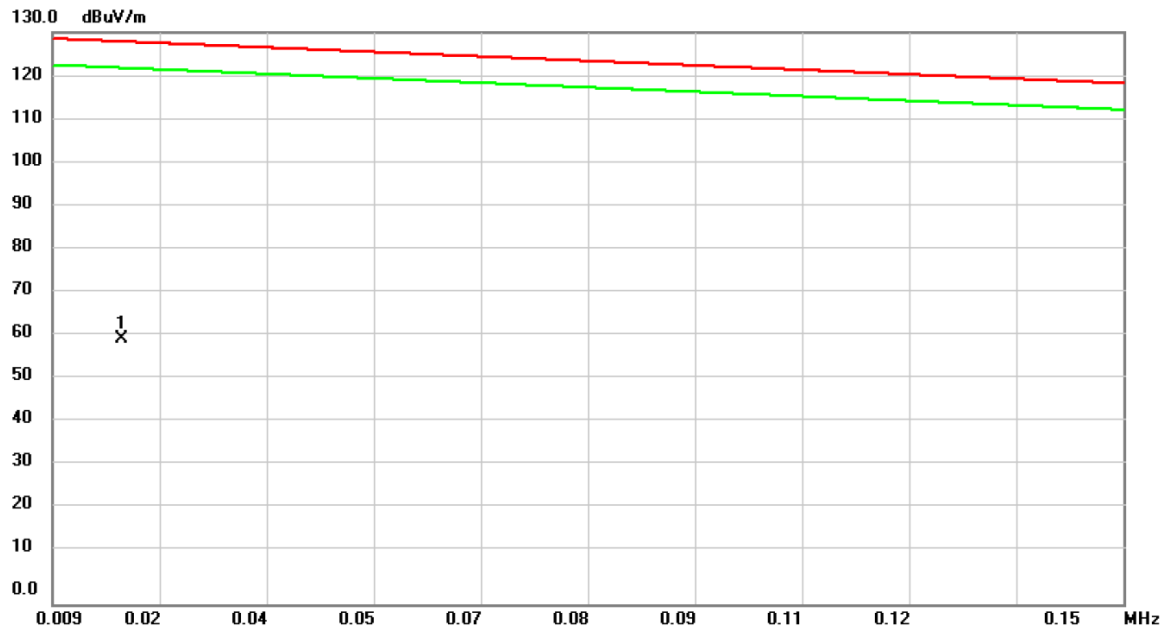
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.5082	37.34	11.80	49.14	73.64	-24.50	Peak	
2	0.8366	32.41	11.93	44.34	70.71	-26.37	Peak	
3	1.4037	27.11	11.82	38.93	65.65	-26.72	Peak	
4	1.7917	24.91	11.64	36.55	69.54	-32.99	Peak	
5	2.1500	22.77	11.48	34.25	69.54	-35.29	Peak	
6	3.2544	18.37	11.14	29.51	69.54	-40.03	Peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0182	42.19	18.25	60.44	127.86	-67.42	peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

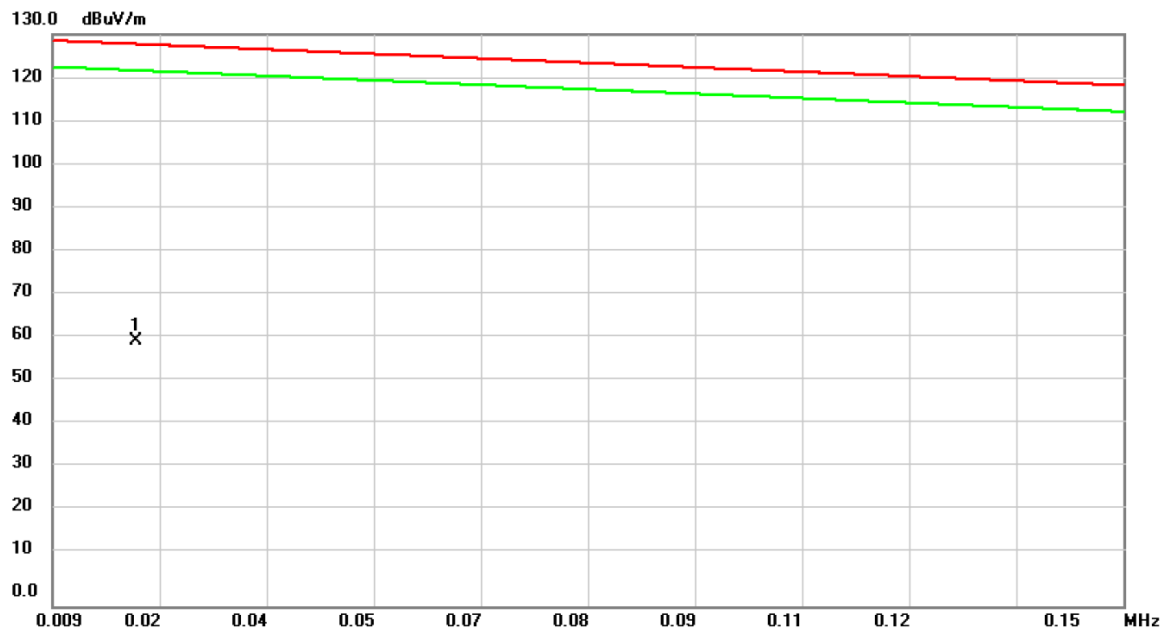
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.8366	32.41	11.93	44.34	70.71	-26.37	peak	
2		1.8810	24.91	11.60	36.51	69.54	-33.03	peak	
3		3.0752	18.66	11.11	29.77	69.54	-39.77	peak	
4		5.1645	15.22	11.40	26.62	69.54	-42.92	peak	
5		6.7470	13.65	11.37	25.02	69.54	-44.52	peak	
6		9.2240	10.91	11.32	22.23	69.54	-47.31	peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

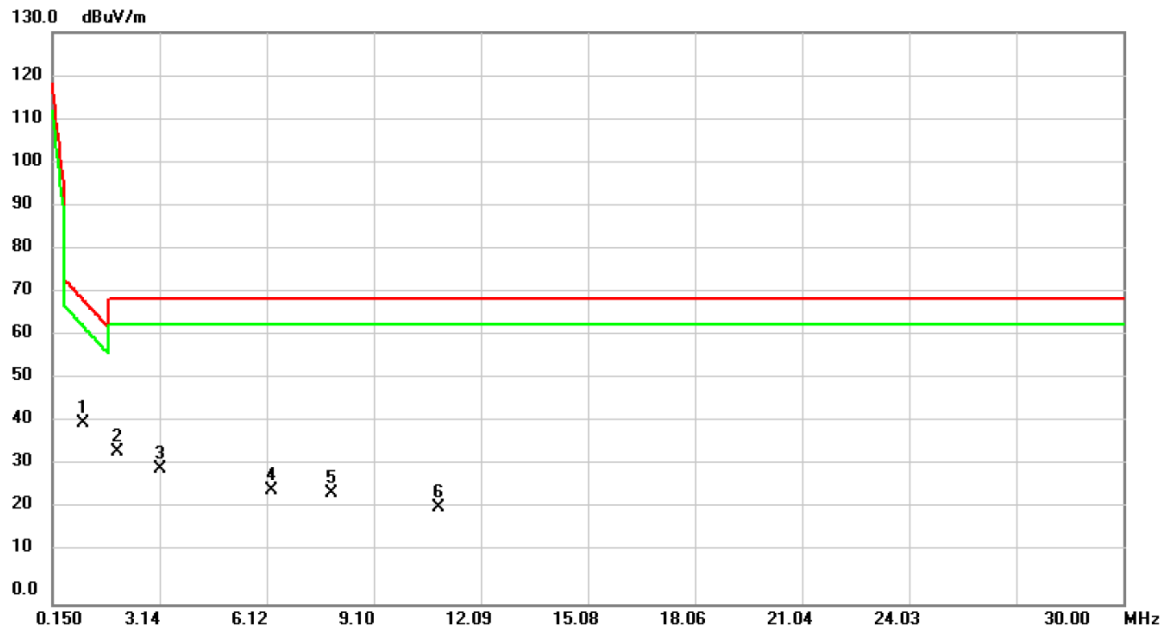
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0200	42.39	17.75	60.14	127.73	-67.59	peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

Ant 90°



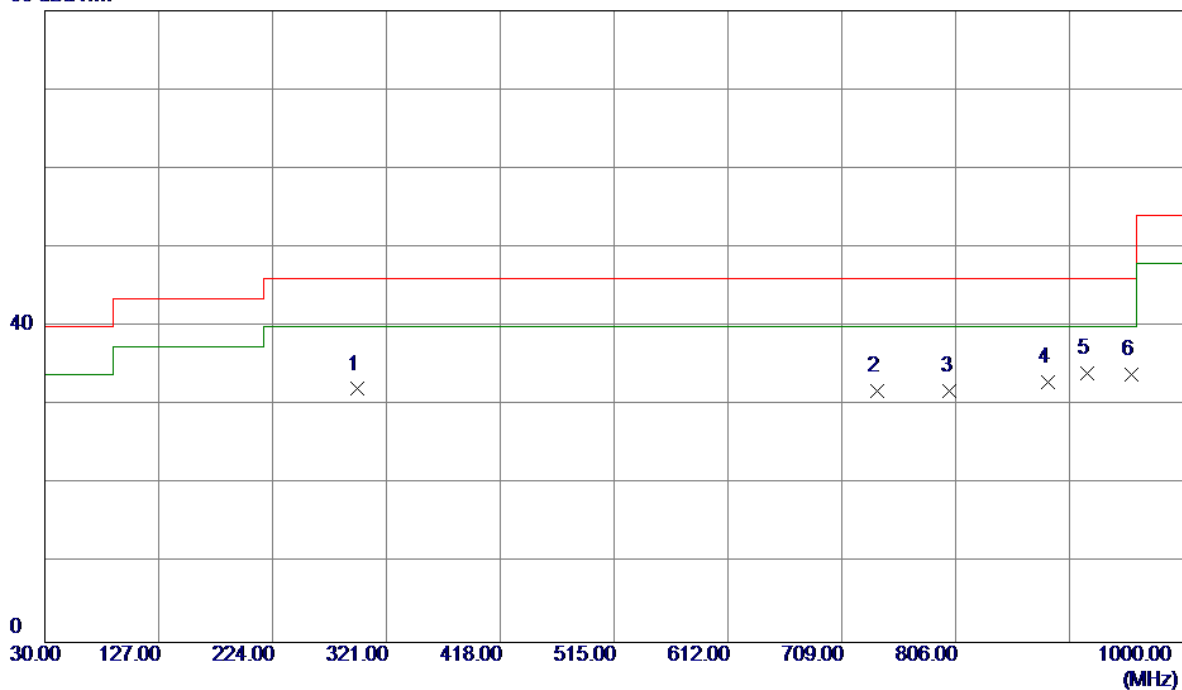
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.9858	29.23	11.99	41.22	69.38	-28.16	peak	
2		1.9708	23.16	11.56	34.72	69.54	-34.82	peak	
3		3.1350	19.52	11.12	30.64	69.54	-38.90	peak	
4		6.2693	14.58	11.37	25.95	69.54	-43.59	peak	
5		7.9410	13.69	11.34	25.03	69.54	-44.51	peak	
6		10.8960	10.67	11.27	21.94	69.54	-47.60	peak	

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

Test Mode: TX B MODE CHANNEL 01_Without Pistol

Vertical

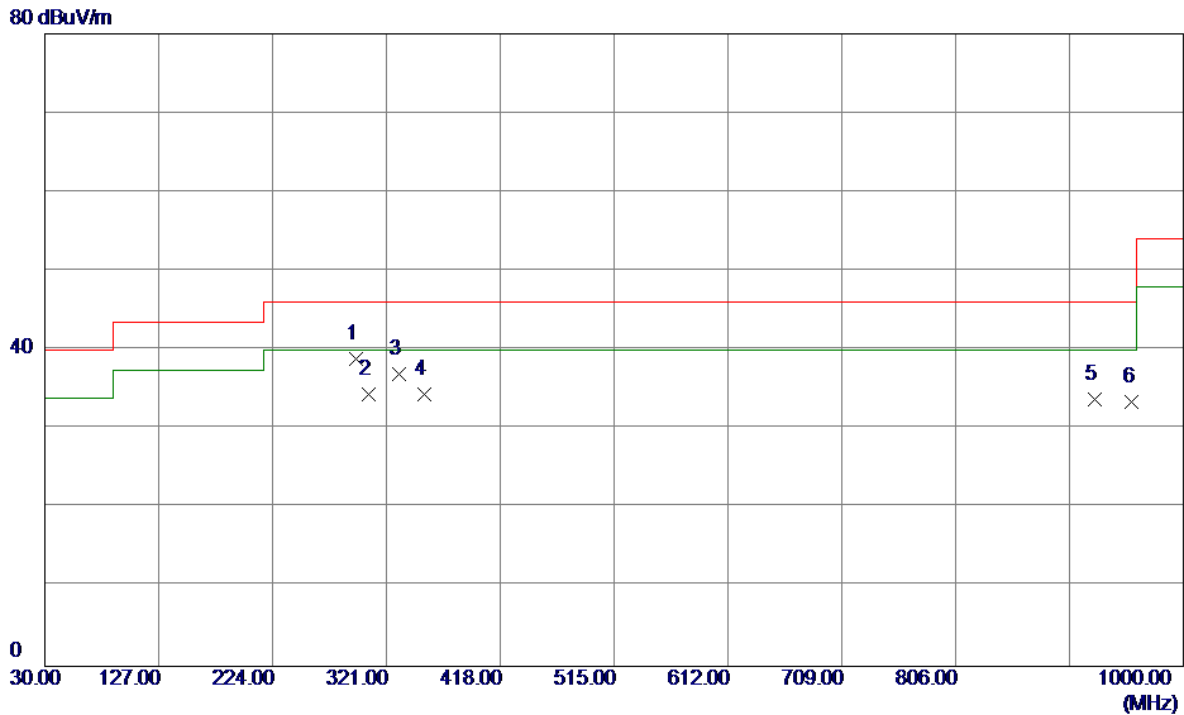
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	295.7800	39.92	-7.84	32.08	46.00	-13.92	Peak	
2	739.0700	30.11	1.66	31.77	46.00	-14.23	Peak	
3	801.1500	29.39	2.44	31.83	46.00	-14.17	Peak	
4	884.5700	29.18	3.81	32.99	46.00	-13.01	Peak	
5 *	918.5200	29.70	4.44	34.14	46.00	-11.86	Peak	
6	955.3800	28.86	5.06	33.92	46.00	-12.08	Peak	

Test Mode: TX B MODE CHANNEL 01_Without Pistol

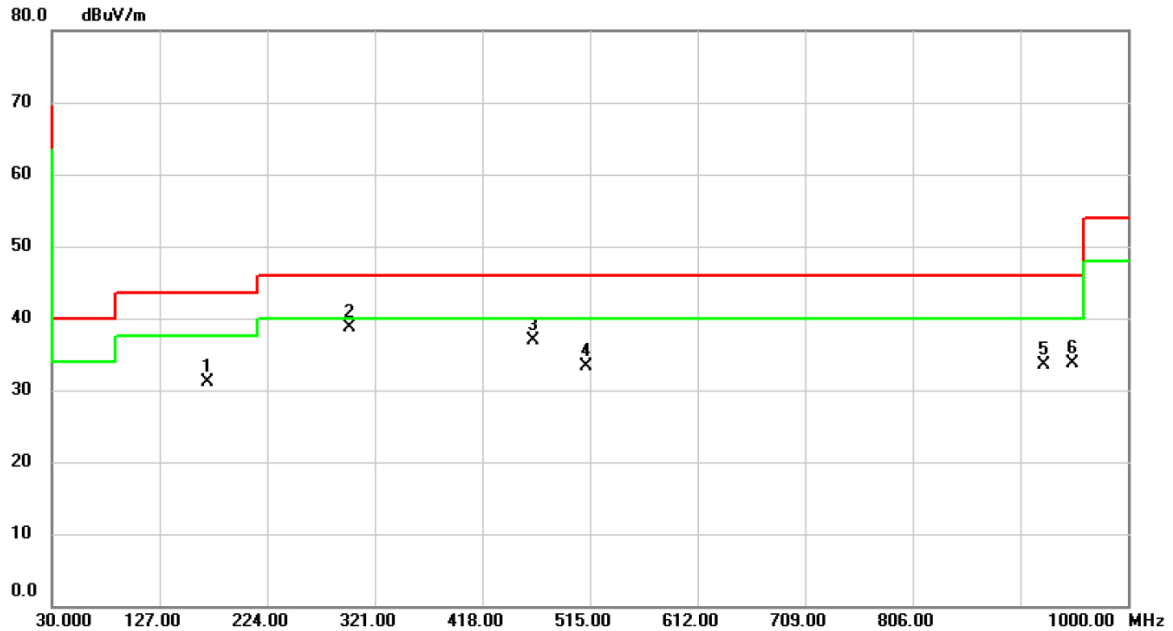
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	294.8100	46.77	-7.85	38.92	46.00	-7.08	Peak	
2	305.4800	42.10	-7.63	34.47	46.00	-11.53	Peak	
3	331.6700	43.85	-6.87	36.98	46.00	-9.02	Peak	
4	353.0100	40.73	-6.27	34.46	46.00	-11.54	Peak	
5	924.3400	29.20	4.54	33.74	46.00	-12.26	Peak	
6	956.3500	28.32	5.08	33.40	46.00	-12.60	Peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

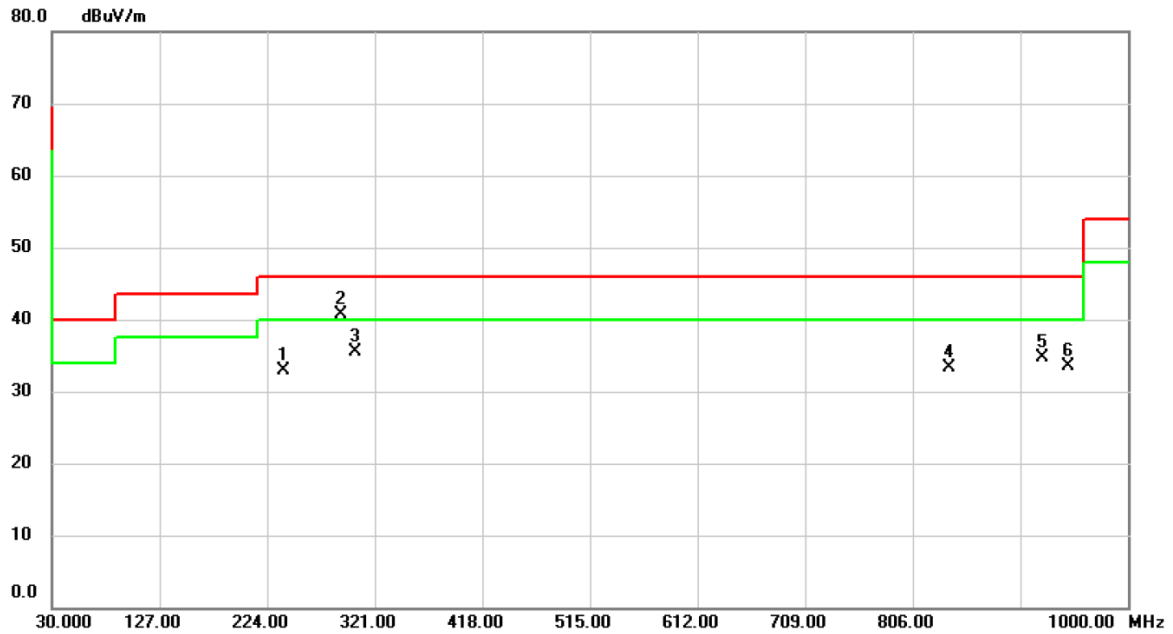
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		170.6500	39.16	-8.06	31.10	43.50	-12.40	peak	
2	*	298.6900	46.10	-7.40	38.70	46.00	-7.30	peak	
3		463.5900	40.15	-3.20	36.95	46.00	-9.05	peak	
4		512.0900	35.60	-2.27	33.33	46.00	-12.67	peak	
5		924.3400	28.65	4.77	33.42	46.00	-12.58	peak	
6		949.5600	28.75	5.04	33.79	46.00	-12.21	peak	

Test Mode: TX B MODE CHANNEL 01_With Pistol

Horizontal

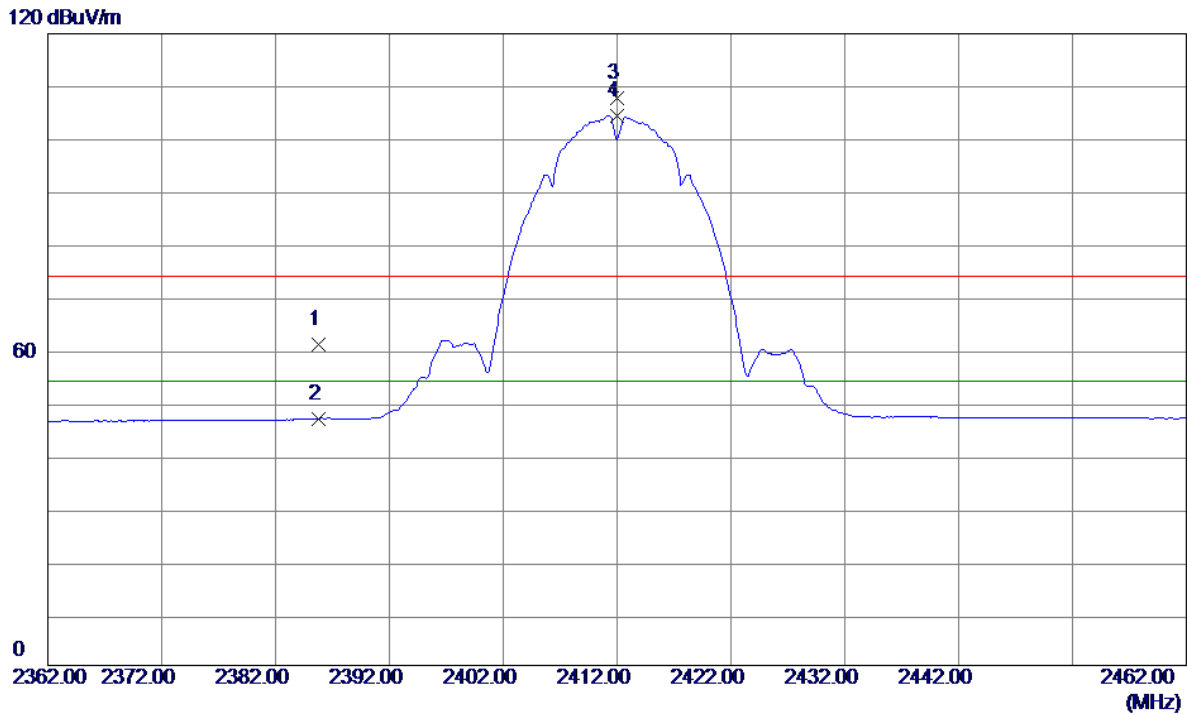


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		238.5500	42.16	-9.21	32.95	46.00	-13.05	peak	
2	*	290.9300	48.23	-7.50	40.73	46.00	-5.27	peak	
3		303.5400	42.80	-7.28	35.52	46.00	-10.48	peak	
4		838.9800	29.87	3.36	33.23	46.00	-12.77	peak	
5		922.4000	29.94	4.75	34.69	46.00	-11.31	peak	
6		946.6500	28.41	5.00	33.41	46.00	-12.59	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2412 MHz_Without Pistol

Vertical

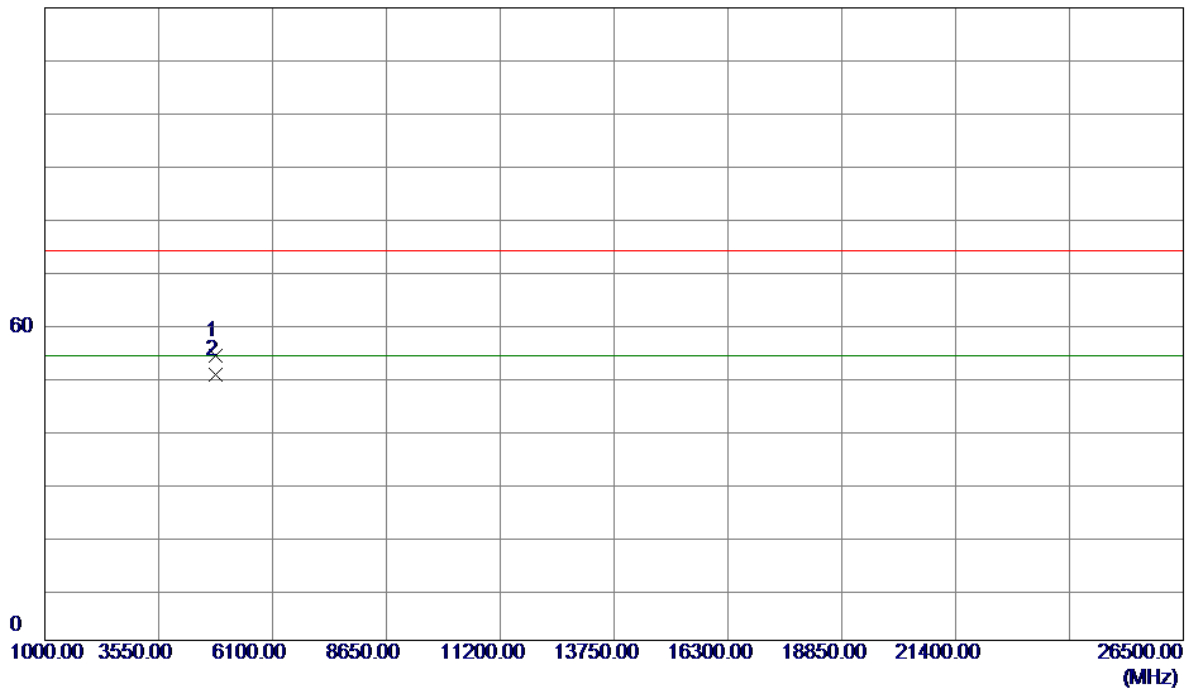


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2385.7440	30.07	30.95	61.02	74.00	-12.98	Peak	
2	2385.7440	15.97	30.95	46.92	54.00	-7.08	AVG	
3	2412.0000	76.67	31.05	107.72	74.00	33.72	Peak	No Limit
4 *	2412.0000	73.31	31.05	104.36	54.00	50.36	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2412 MHz_Without Pistol

Vertical

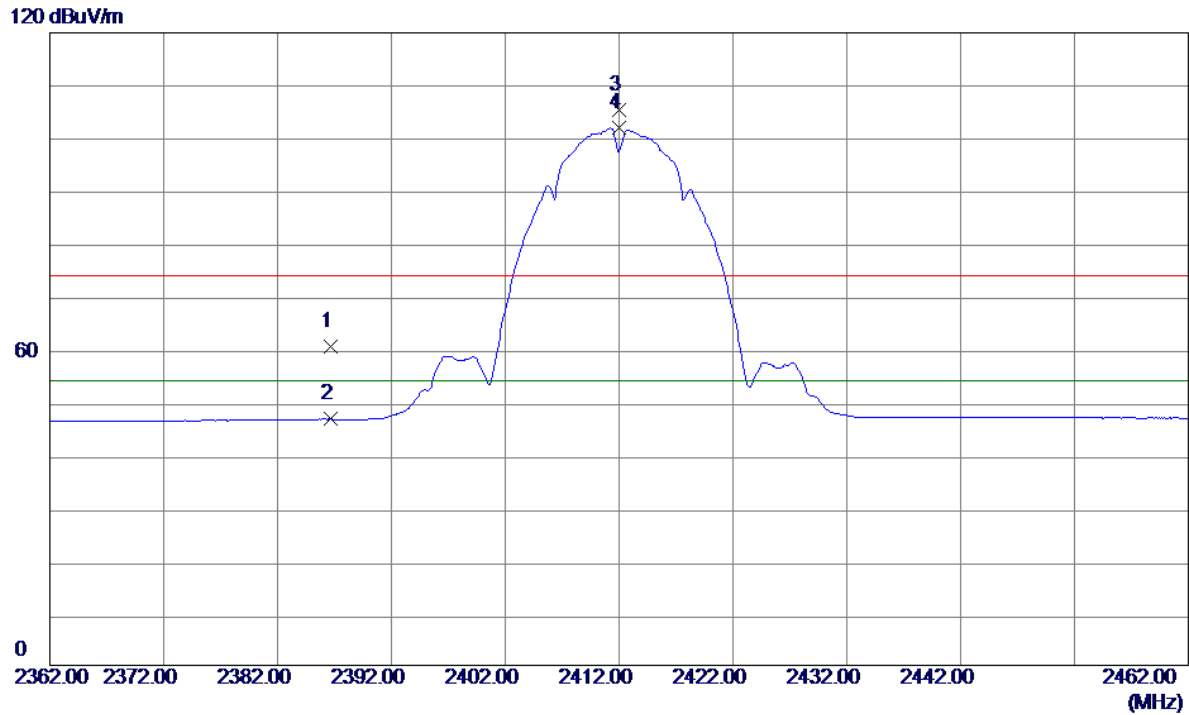
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	65.38	-11.47	53.91	74.00	-20.09	Peak	
2 *	4824.0000	61.80	-11.47	50.33	54.00	-3.67	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2412 MHz_Without Pistol

Horizontal

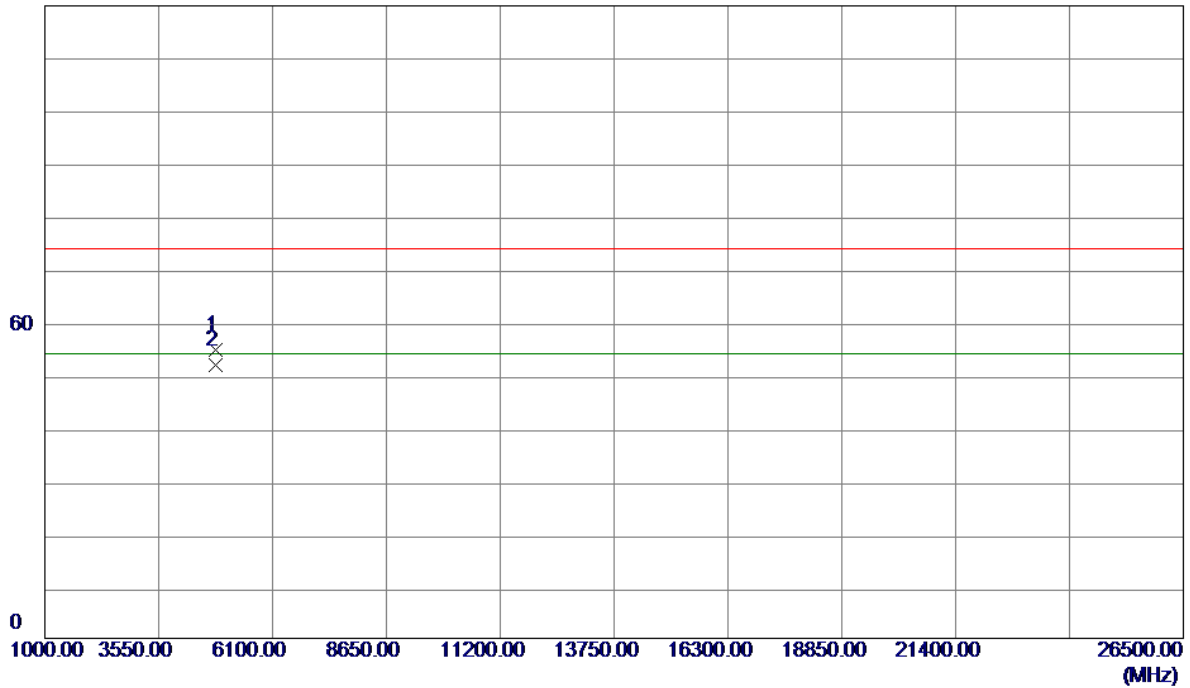


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.6120	29.62	30.95	60.57	74.00	-13.43	Peak	
2	2386.6120	15.76	30.95	46.71	54.00	-7.29	AVG	
3	2412.0000	74.26	31.05	105.31	74.00	31.31	Peak	No Limit
4 *	2412.0000	70.83	31.05	101.88	54.00	47.88	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2412 MHz_Without Pistol

Horizontal

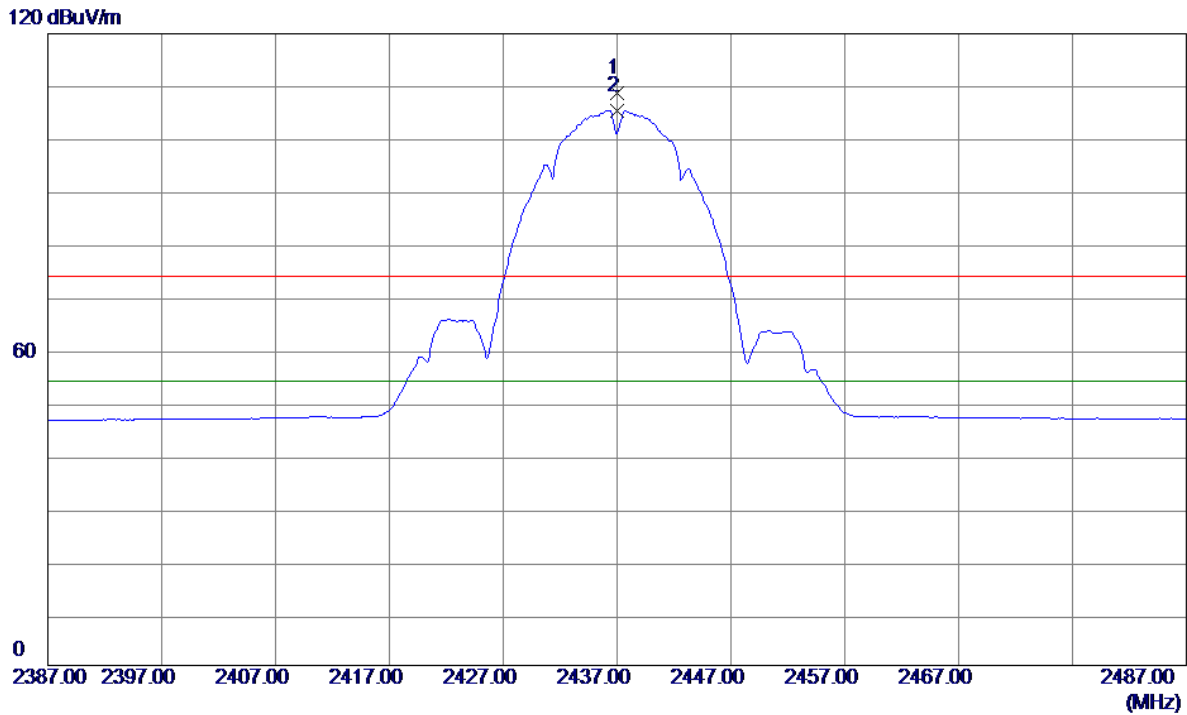
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	66.24	-11.47	54.77	74.00	-19.23	Peak	
2 *	4824.0000	63.37	-11.47	51.90	54.00	-2.10	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2437 MHz_Without Pistol

Vertical

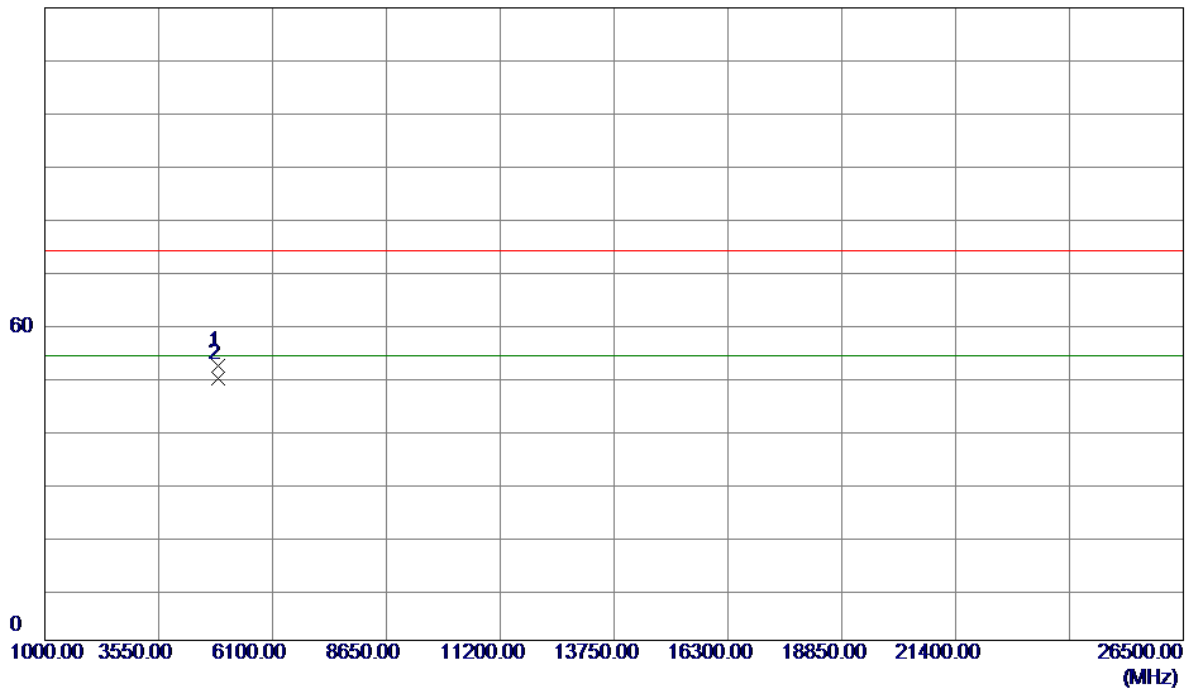


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	77.69	31.14	108.83	74.00	34.83	Peak	No Limit
2 *	2437.0000	74.33	31.14	105.47	54.00	51.47	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2437 MHz_Without Pistol

Vertical

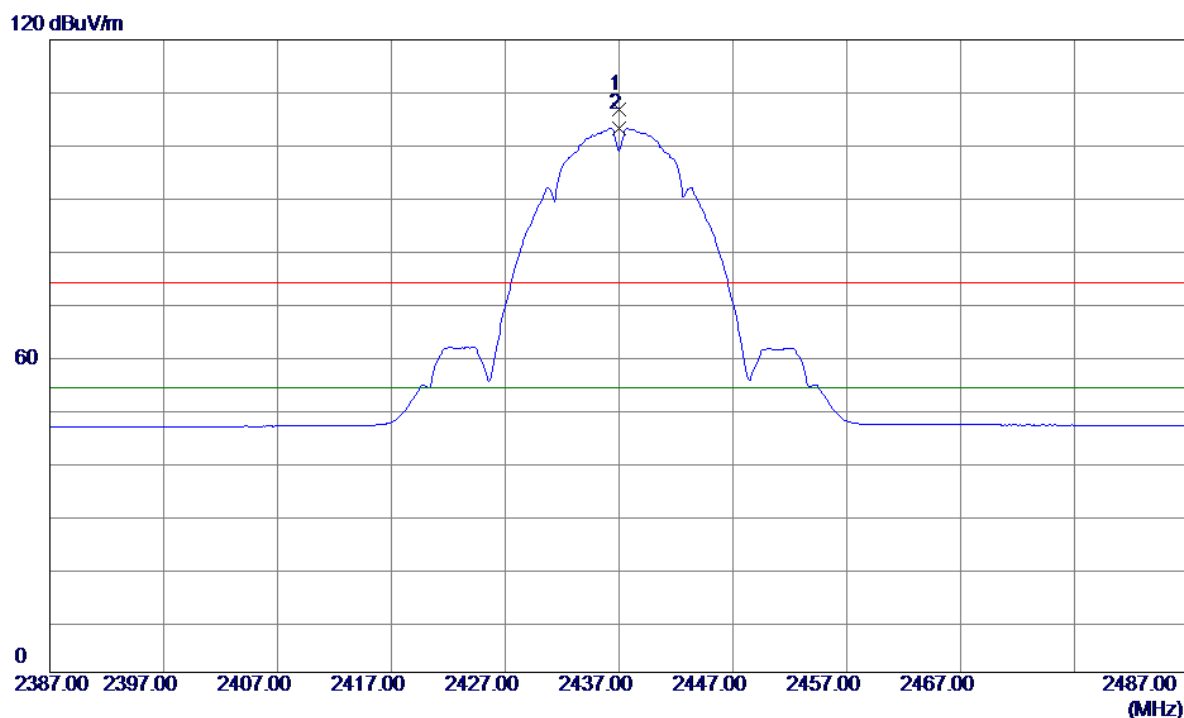
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	63.44	-11.39	52.05	74.00	-21.95	Peak	
2 *	4874.0000	61.03	-11.39	49.64	54.00	-4.36	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2437 MHz_Without Pistol

Horizontal

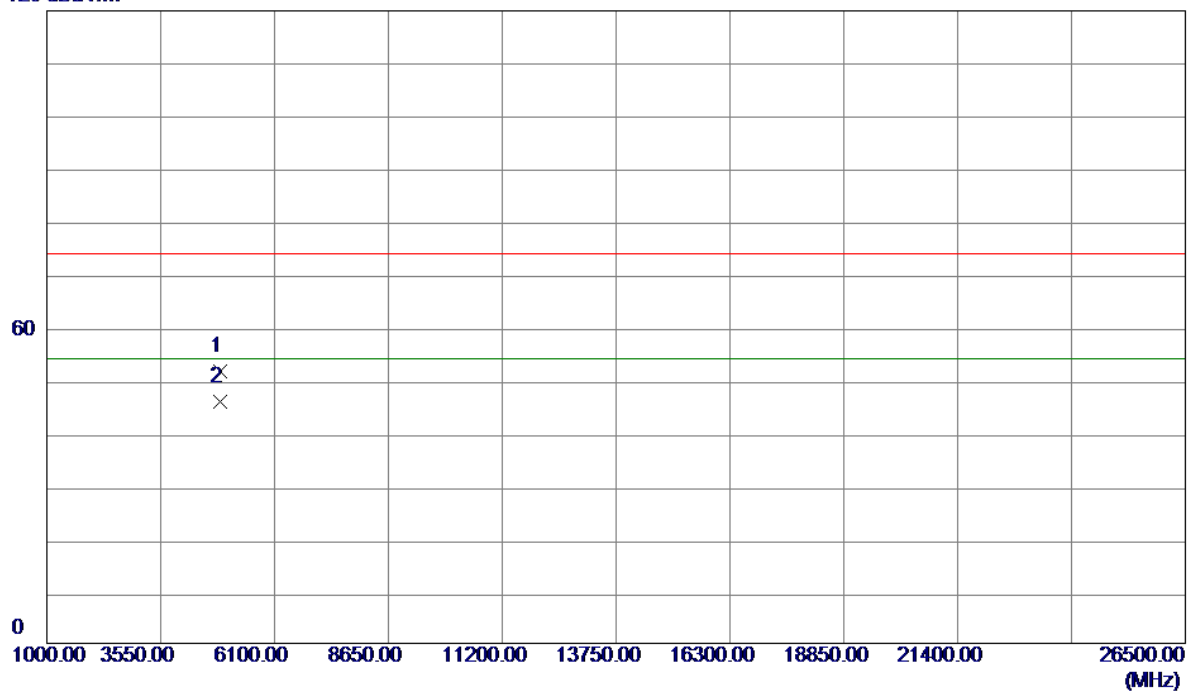


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	75.64	31.14	106.78	74.00	32.78	Peak	No Limit
2 *	2437.0000	72.17	31.14	103.31	54.00	49.31	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2437 MHz_Without Pistol

Horizontal

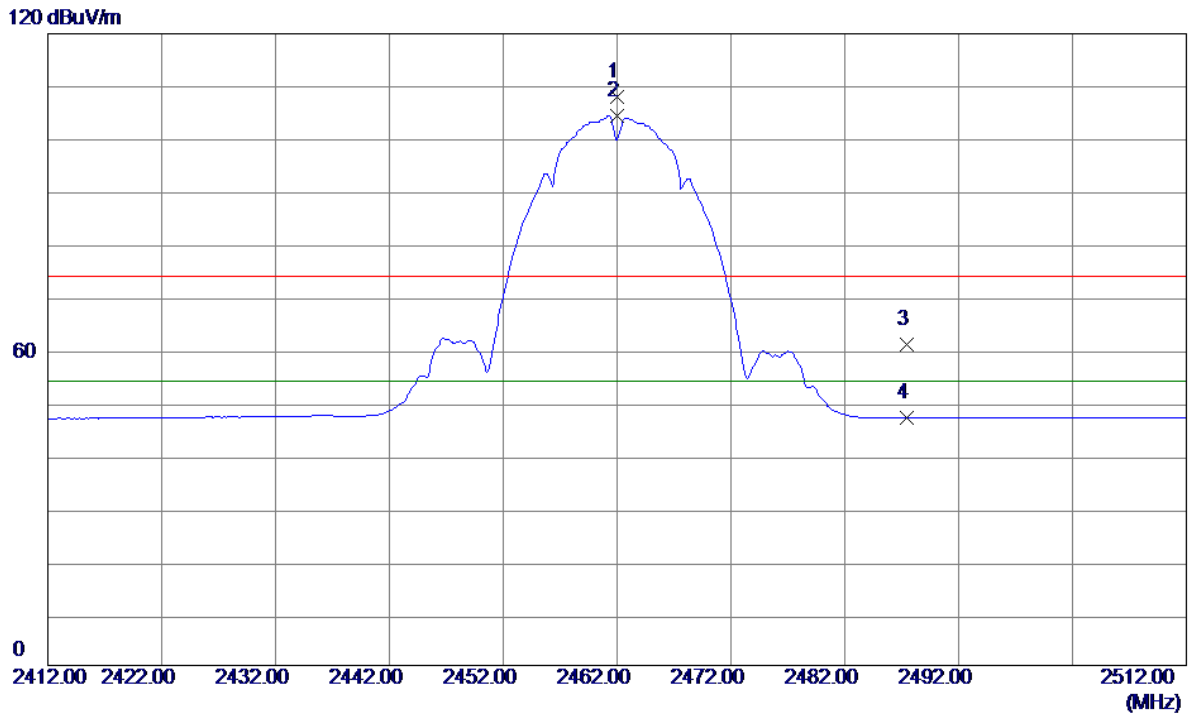
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	62.97	-11.39	51.58	74.00	-22.42	Peak	
2 *	4874.0000	57.16	-11.39	45.77	54.00	-8.23	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2462 MHz_Without Pistol

Vertical

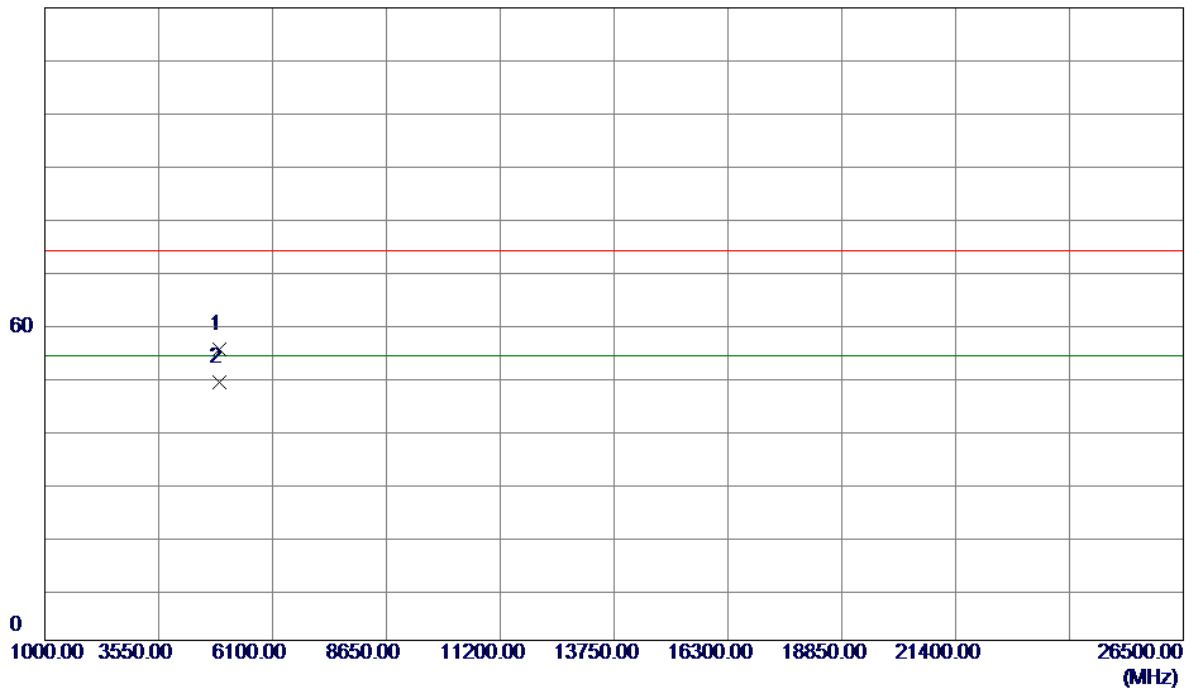


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	76.68	31.23	107.91	74.00	33.91	Peak	No Limit
2 *	2462.0000	73.21	31.23	104.44	54.00	50.44	AVG	No Limit
3	2487.4430	29.67	31.32	60.99	74.00	-13.01	Peak	
4	2487.4430	15.82	31.32	47.14	54.00	-6.86	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2462 MHz_Without Pistol

Vertical

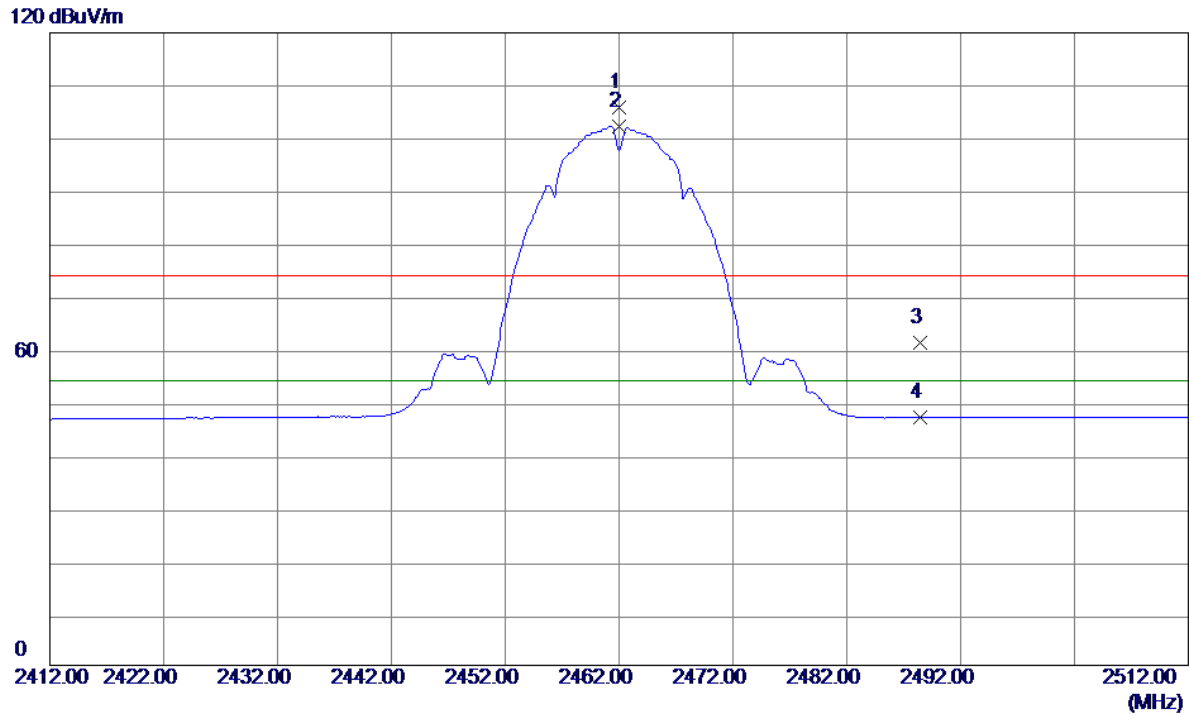
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	66.51	-11.32	55.19	74.00	-18.81	Peak	
2 *	4924.0000	60.37	-11.32	49.05	54.00	-4.95	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2462 MHz_Without Pistol

Horizontal

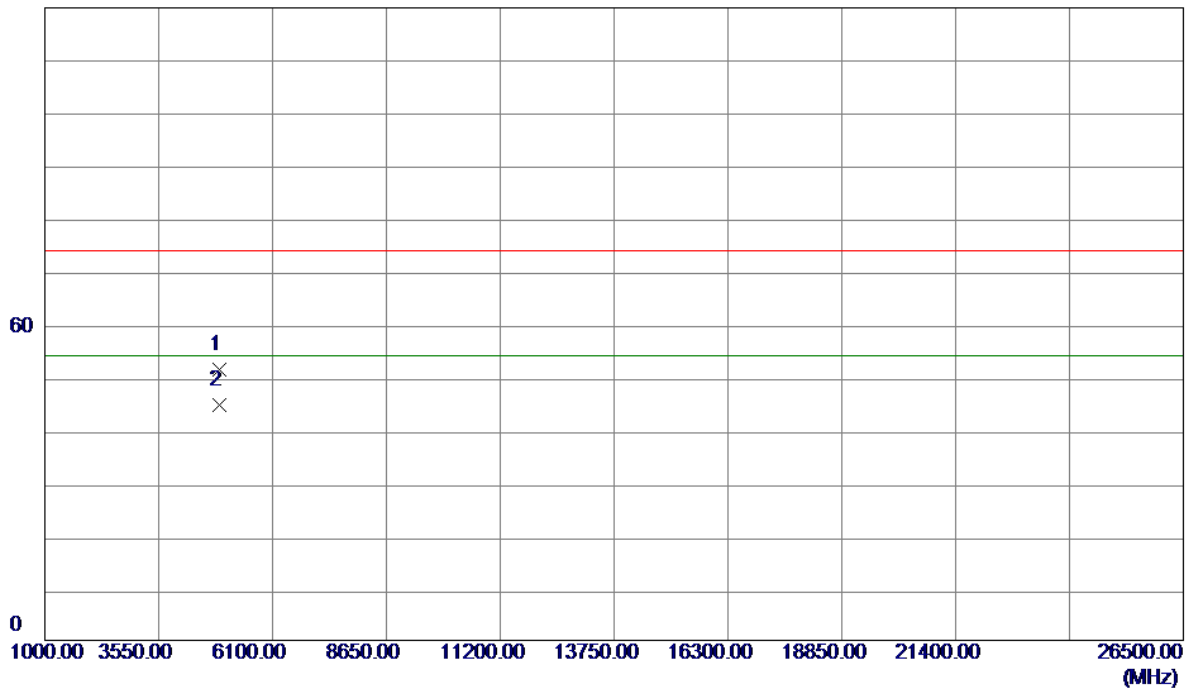


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	74.60	31.23	105.83	74.00	31.83	Peak	No Limit
2 *	2462.0000	70.93	31.23	102.16	54.00	48.16	AVG	No Limit
3	2488.4670	29.81	31.33	61.14	74.00	-12.86	Peak	
4	2488.4670	15.78	31.33	47.11	54.00	-6.89	AVG	

Orthogonal Axis :	Z
Test Mode :	TX B MODE 2462 MHz_Without Pistol

Horizontal

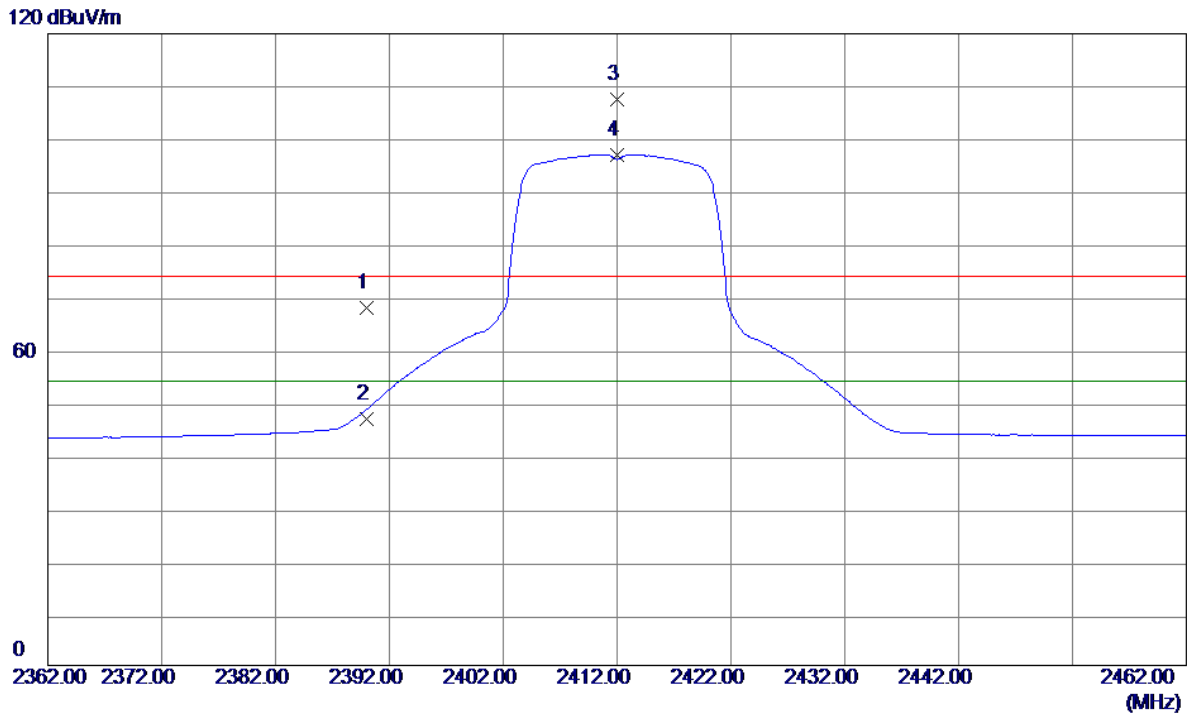
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	62.77	-11.32	51.45	74.00	-22.55	Peak	
2 *	4924.0000	56.06	-11.32	44.74	54.00	-9.26	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2412 MHz_Without Pistol

Vertical

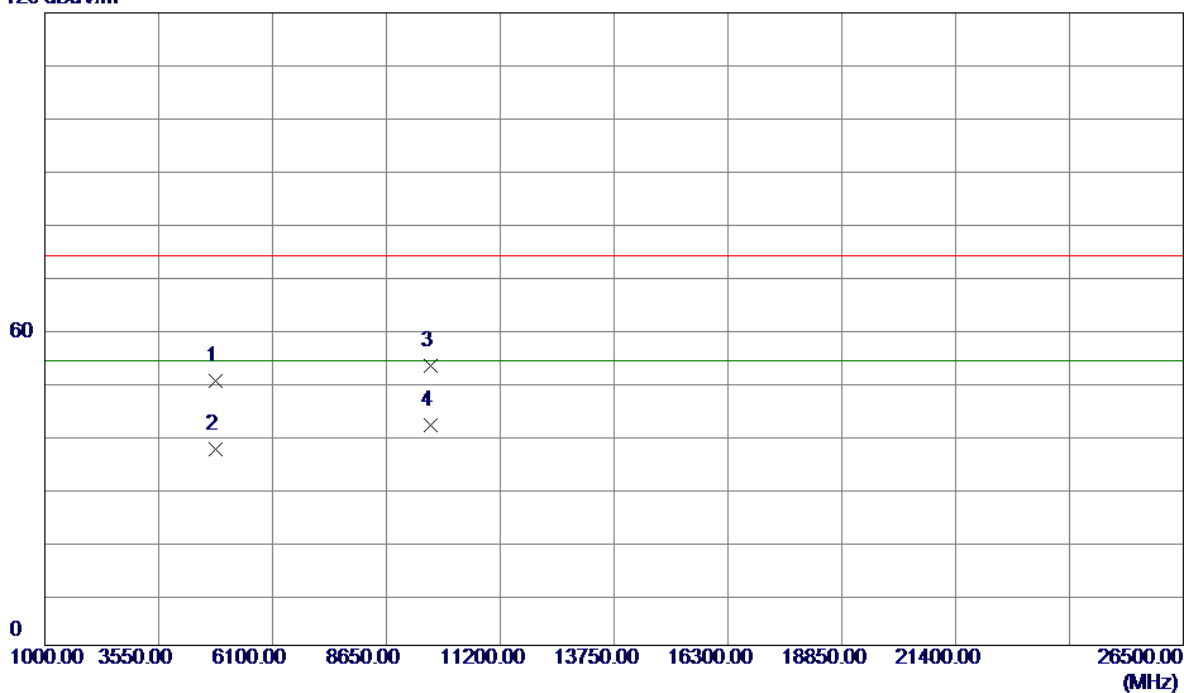


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	36.86	30.97	67.83	74.00	-6.17	Peak	
2	2390.0000	15.74	30.97	46.71	54.00	-7.29	AVG	
3	2412.0000	76.41	31.05	107.46	74.00	33.46	Peak	No Limit
4 *	2412.0000	66.02	31.05	97.07	54.00	43.07	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2412 MHz_Without Pistol

Vertical

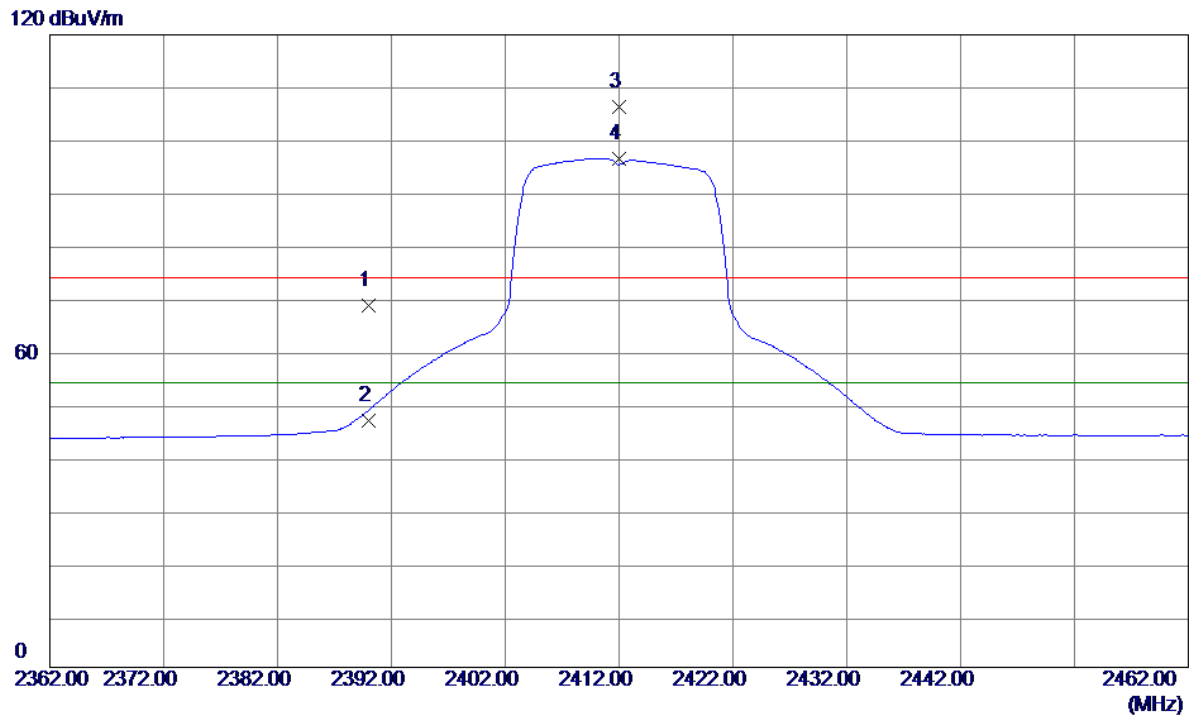
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	61.71	-11.47	50.24	74.00	-23.76	Peak	
2	4824.0000	48.60	-11.47	37.13	54.00	-16.87	AVG	
3	9648.0000	52.26	0.81	53.07	74.00	-20.93	Peak	
4 *	9648.0000	40.96	0.81	41.77	54.00	-12.23	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2412 MHz_Without Pistol

Horizontal

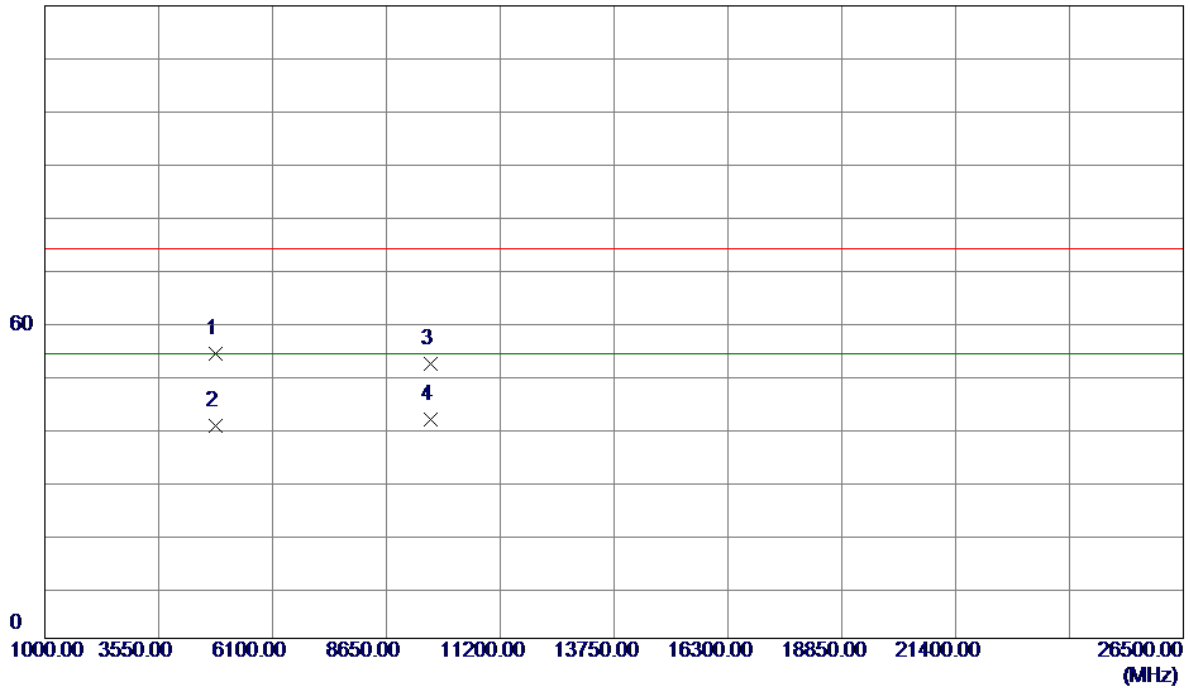


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	37.75	30.97	68.72	74.00	-5.28	Peak	
2	2390.0000	15.93	30.97	46.90	54.00	-7.10	AVG	
3	2412.0000	75.38	31.05	106.43	74.00	32.43	Peak	No Limit
4 *	2412.0000	65.40	31.05	96.45	54.00	42.45	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2412 MHz_Without Pistol

Horizontal

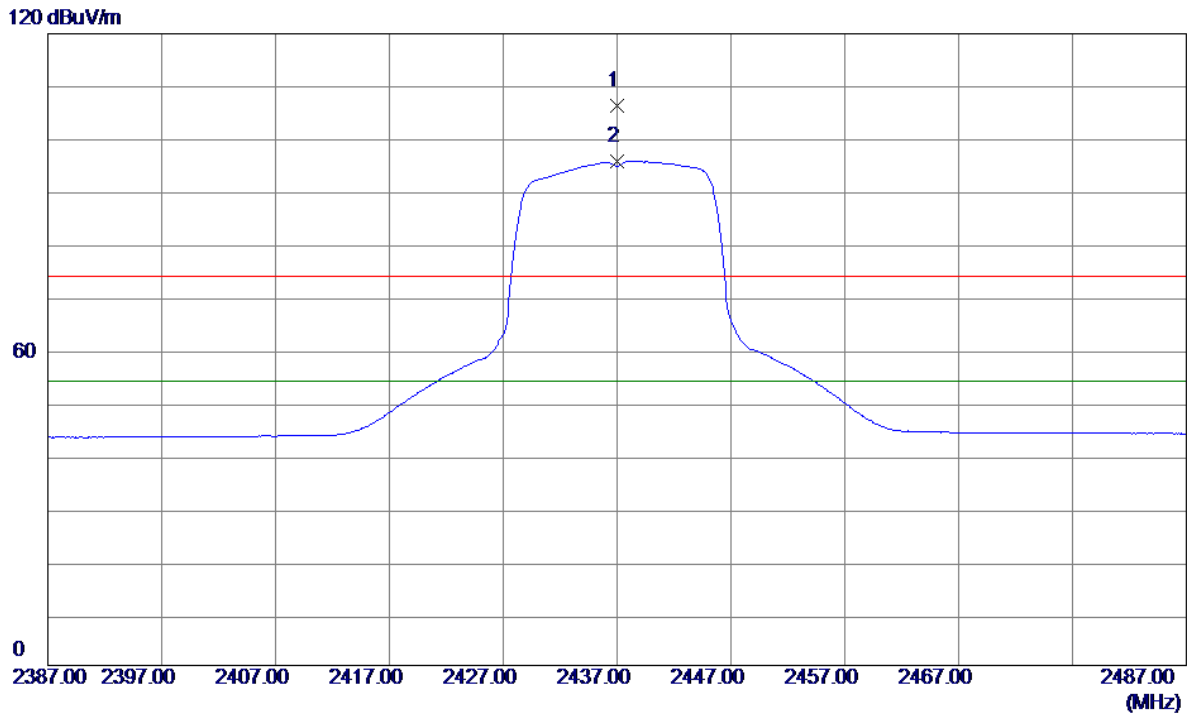
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	65.56	-11.47	54.09	74.00	-19.91	Peak	
2	4824.0000	51.86	-11.47	40.39	54.00	-13.61	AVG	
3	9648.0000	51.29	0.81	52.10	74.00	-21.90	Peak	
4 *	9648.0000	40.60	0.81	41.41	54.00	-12.59	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2437 MHz_Without Pistol

Vertical

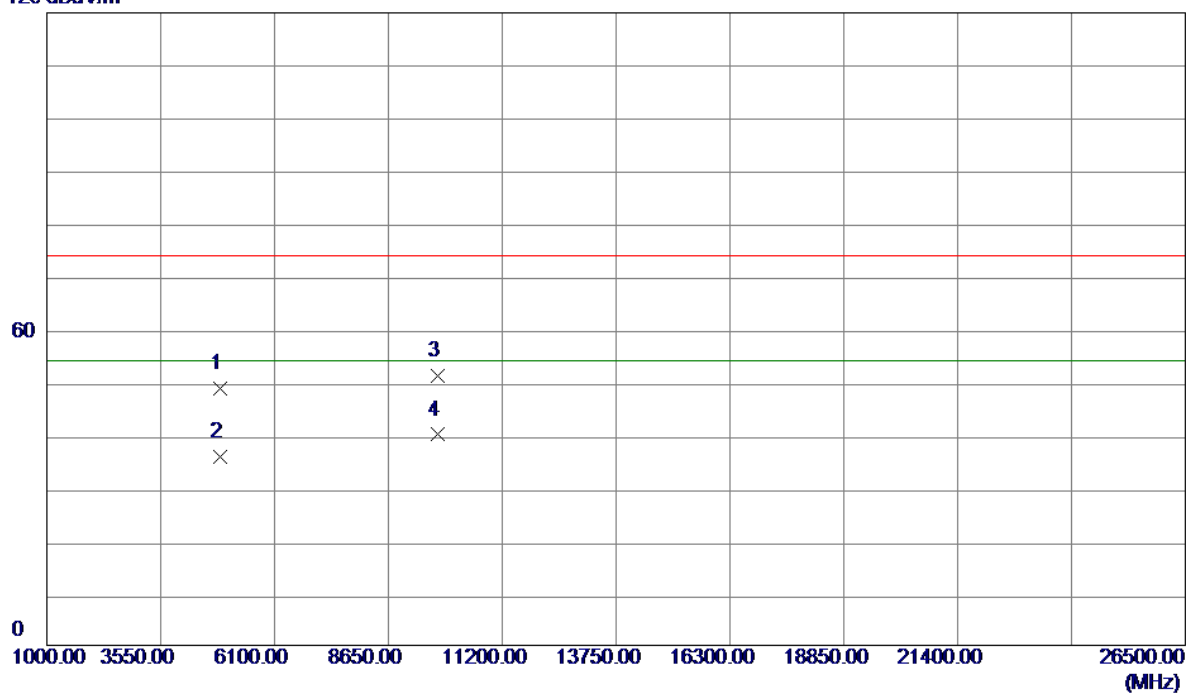


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	75.29	31.14	106.43	74.00	32.43	Peak	No Limit
2 *	2437.0000	64.66	31.14	95.80	54.00	41.80	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2437 MHz_Without Pistol

Vertical

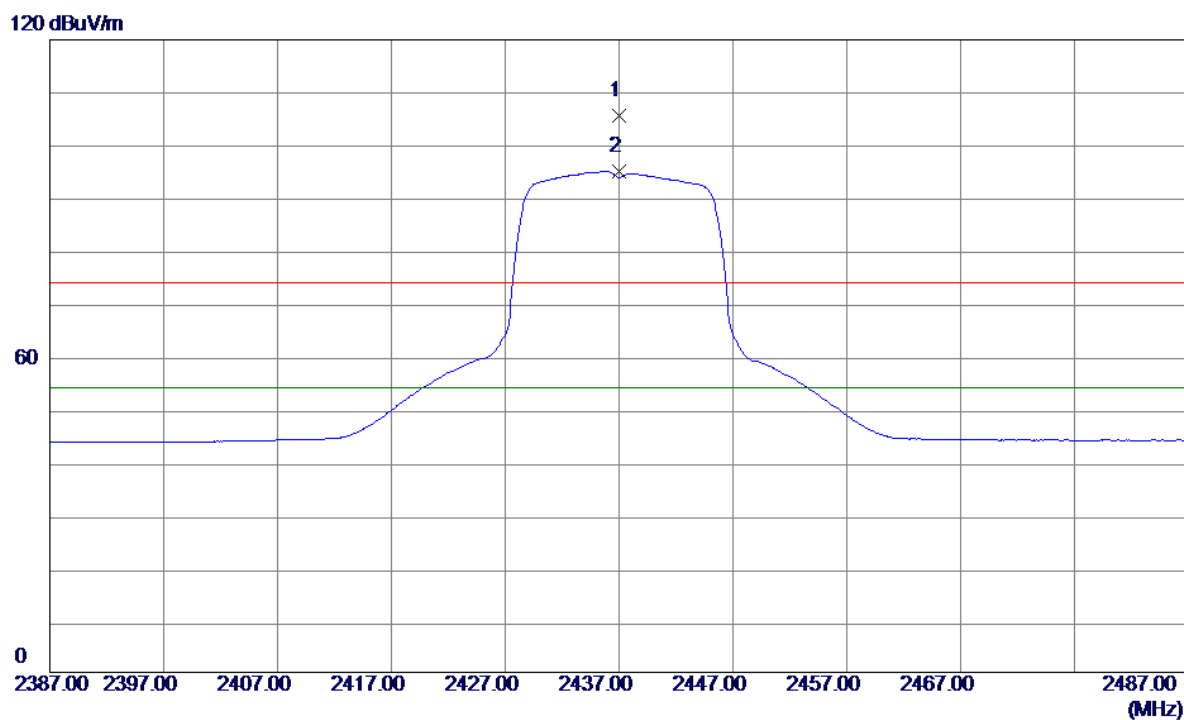
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	60.07	-11.39	48.68	74.00	-25.32	Peak	
2	4874.0000	47.21	-11.39	35.82	54.00	-18.18	AVG	
3	9748.0000	49.91	1.10	51.01	74.00	-22.99	Peak	
4 *	9748.0000	38.86	1.10	39.96	54.00	-14.04	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2437 MHz_Without Pistol

Horizontal

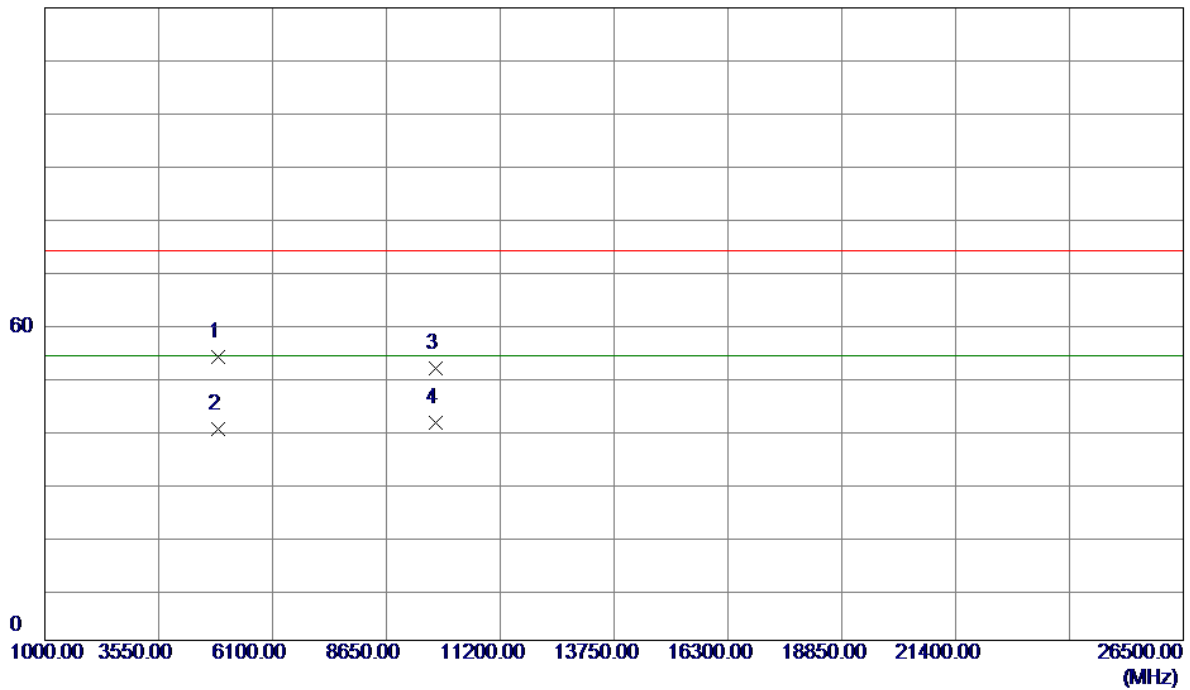


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	74.51	31.14	105.65	74.00	31.65	Peak	No Limit
2 *	2437.0000	63.84	31.14	94.98	54.00	40.98	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2437 MHz_Without Pistol

Horizontal

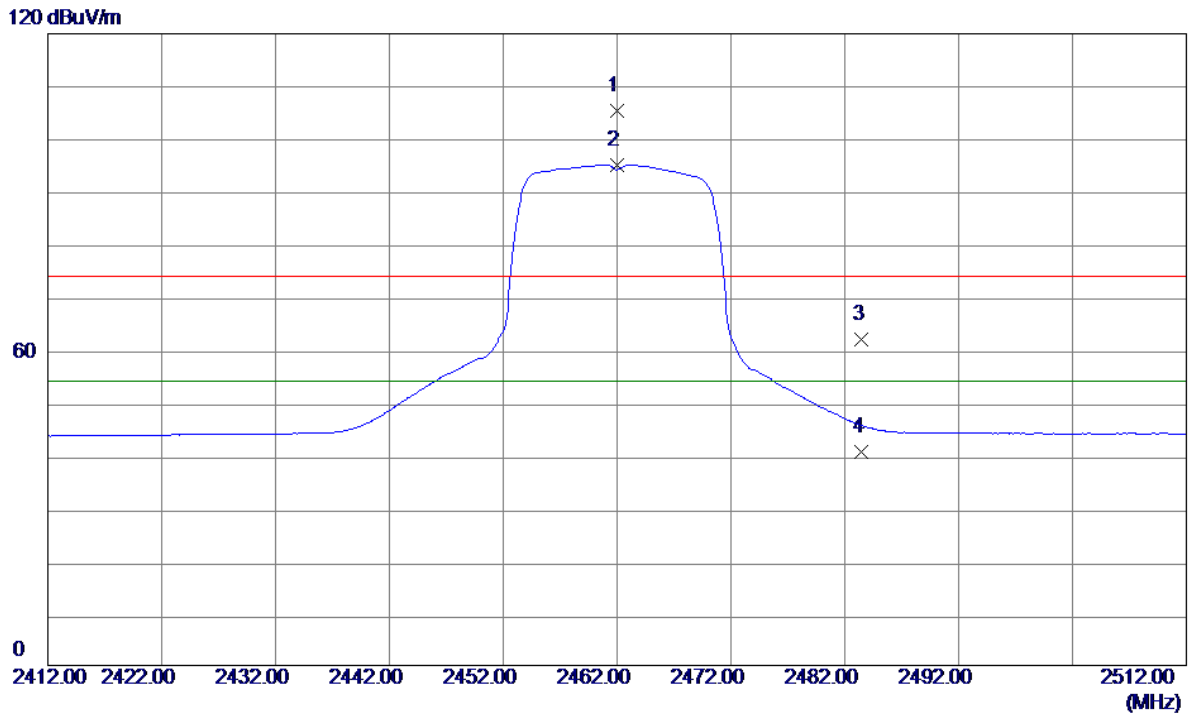
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	65.10	-11.39	53.71	74.00	-20.29	Peak	
2	4874.0000	51.50	-11.39	40.11	54.00	-13.89	AVG	
3	9748.0000	50.50	1.10	51.60	74.00	-22.40	Peak	
4 *	9748.0000	40.19	1.10	41.29	54.00	-12.71	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2462 MHz_Without Pistol

Vertical

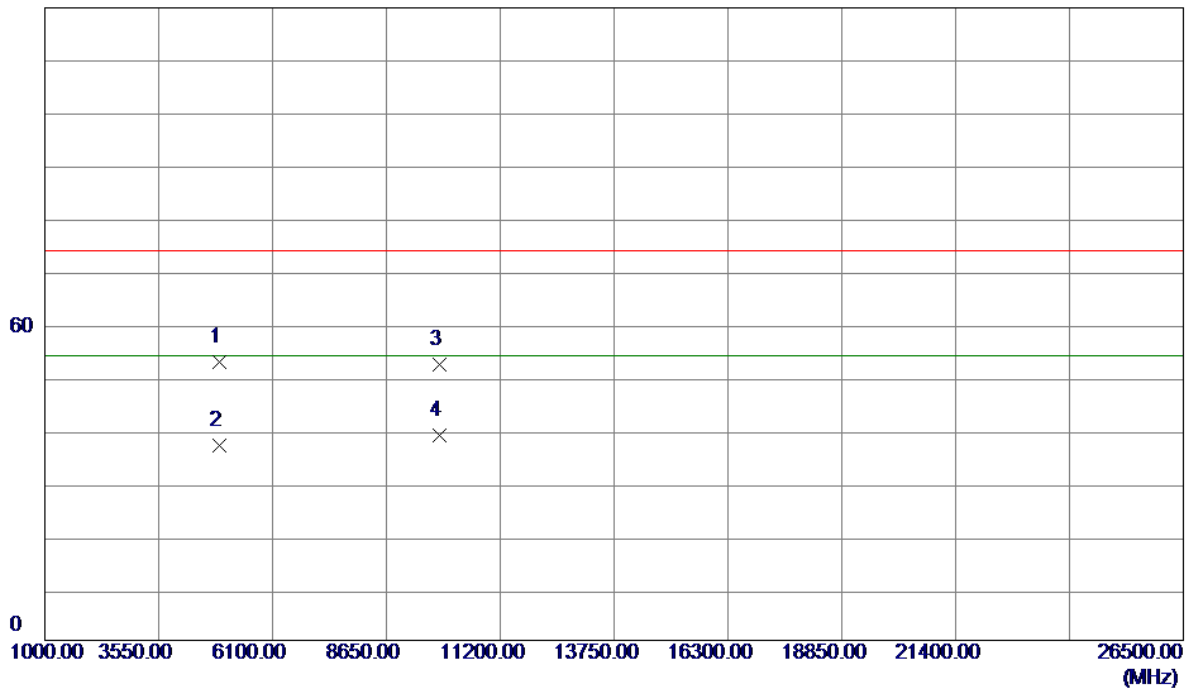


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	74.14	31.23	105.37	74.00	31.37	Peak	No Limit
2 *	2462.0000	63.88	31.23	95.11	54.00	41.11	AVG	No Limit
3	2483.5000	30.61	31.31	61.92	74.00	-12.08	Peak	
4	2483.5000	9.33	31.31	40.64	54.00	-13.36	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2462 MHz_Without Pistol

Vertical

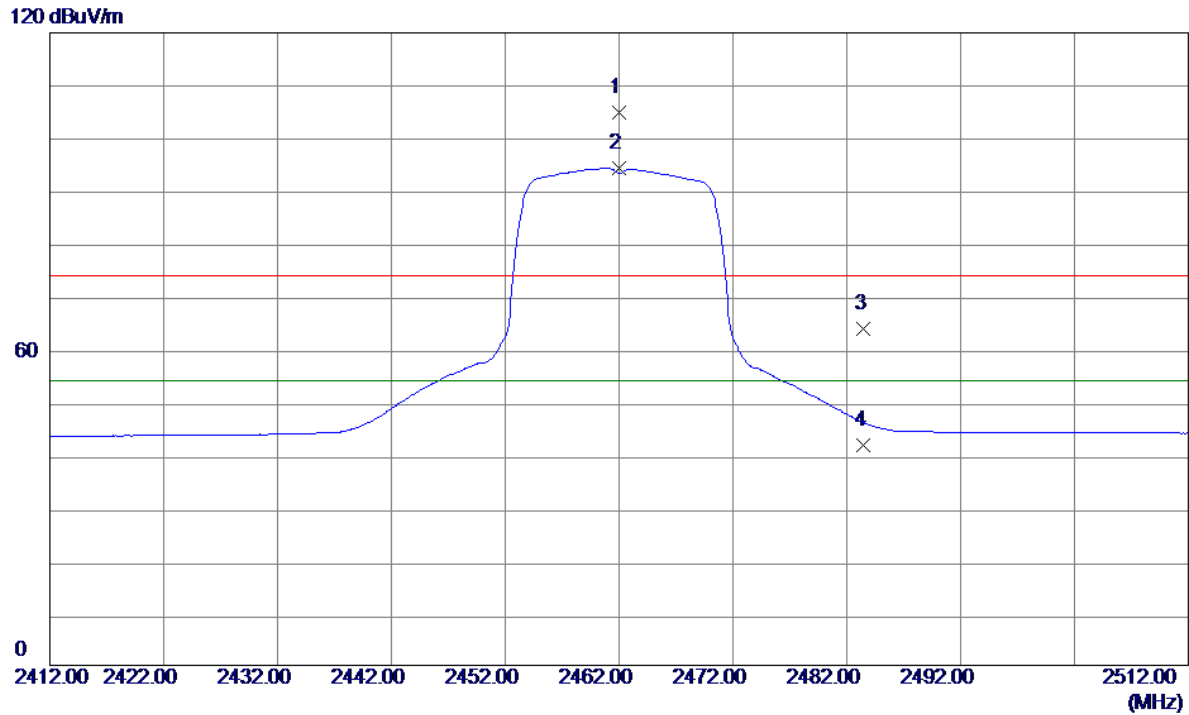
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	64.17	-11.32	52.85	74.00	-21.15	Peak	
2	4924.0000	48.38	-11.32	37.06	54.00	-16.94	AVG	
3	9848.0000	50.93	1.39	52.32	74.00	-21.68	Peak	
4 *	9848.0000	37.56	1.39	38.95	54.00	-15.05	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2462 MHz_Without Pistol

Horizontal

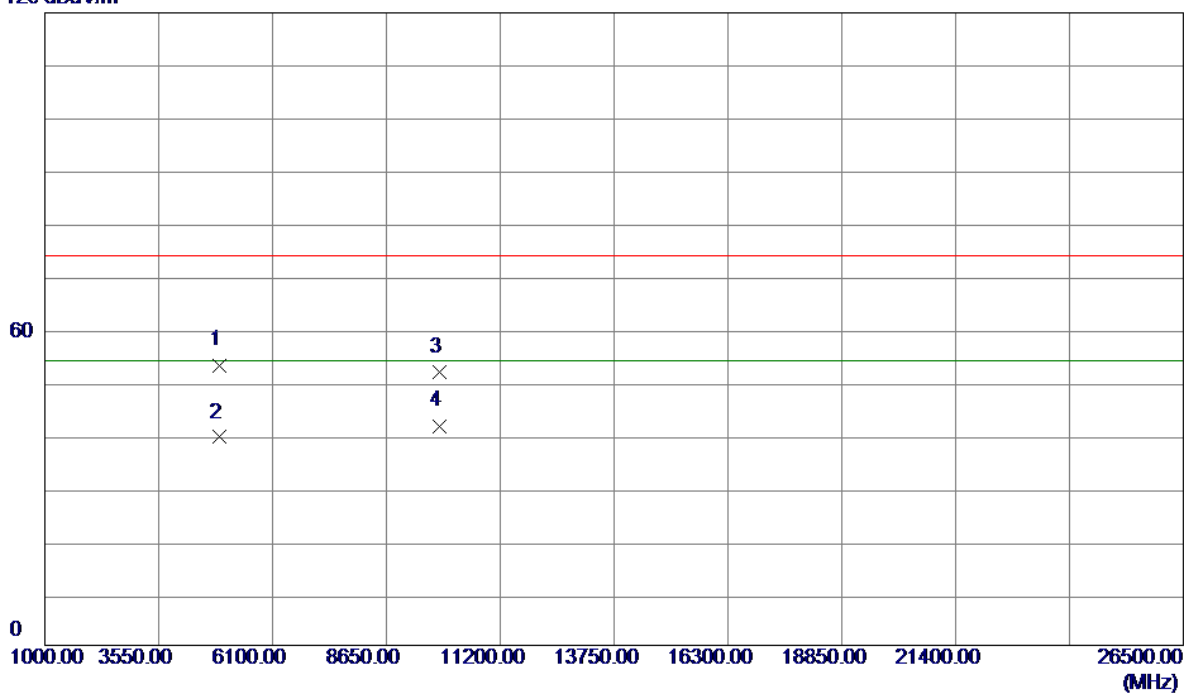


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	73.60	31.23	104.83	74.00	30.83	Peak	No Limit
2 *	2462.0000	63.08	31.23	94.31	54.00	40.31	AVG	No Limit
3	2483.5000	32.43	31.31	63.74	74.00	-10.26	Peak	
4	2483.5000	10.56	31.31	41.87	54.00	-12.13	AVG	

Orthogonal Axis :	Z
Test Mode :	TX G MODE 2462 MHz_Without Pistol

Horizontal

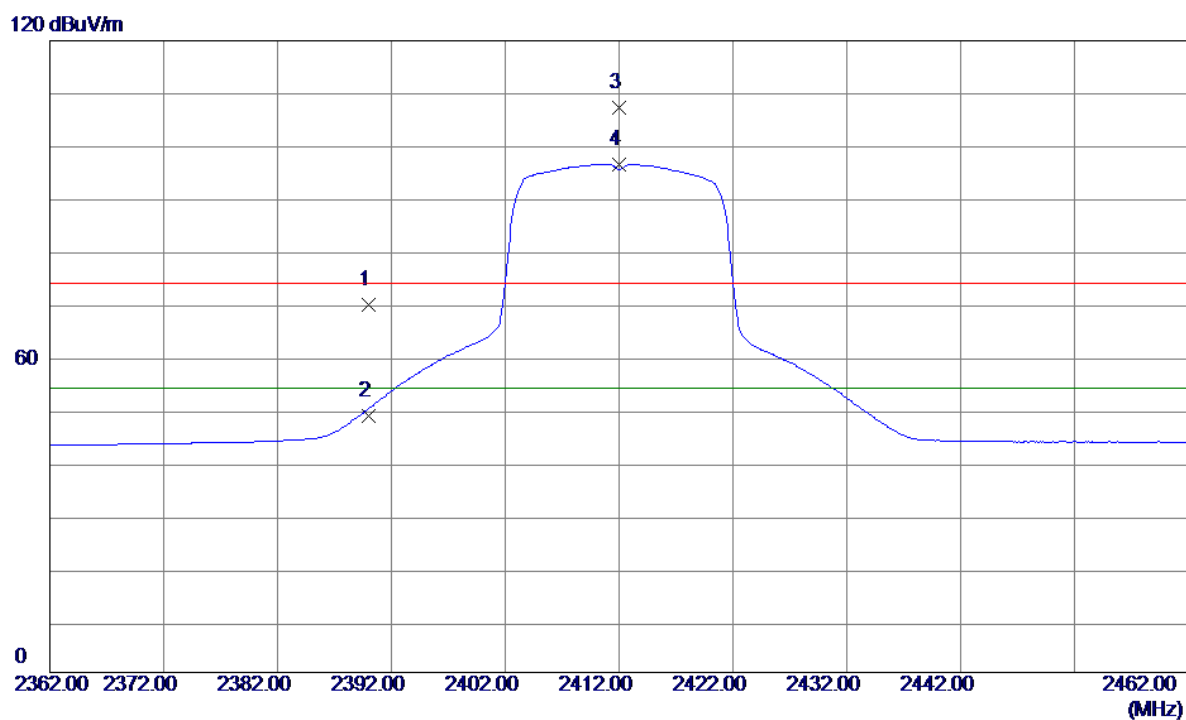
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	64.48	-11.32	53.16	74.00	-20.84	Peak	
2	4924.0000	50.80	-11.32	39.48	54.00	-14.52	AVG	
3	9848.0000	50.44	1.39	51.83	74.00	-22.17	Peak	
4 *	9848.0000	40.25	1.39	41.64	54.00	-12.36	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2412 MHz_Without Pistol

Vertical

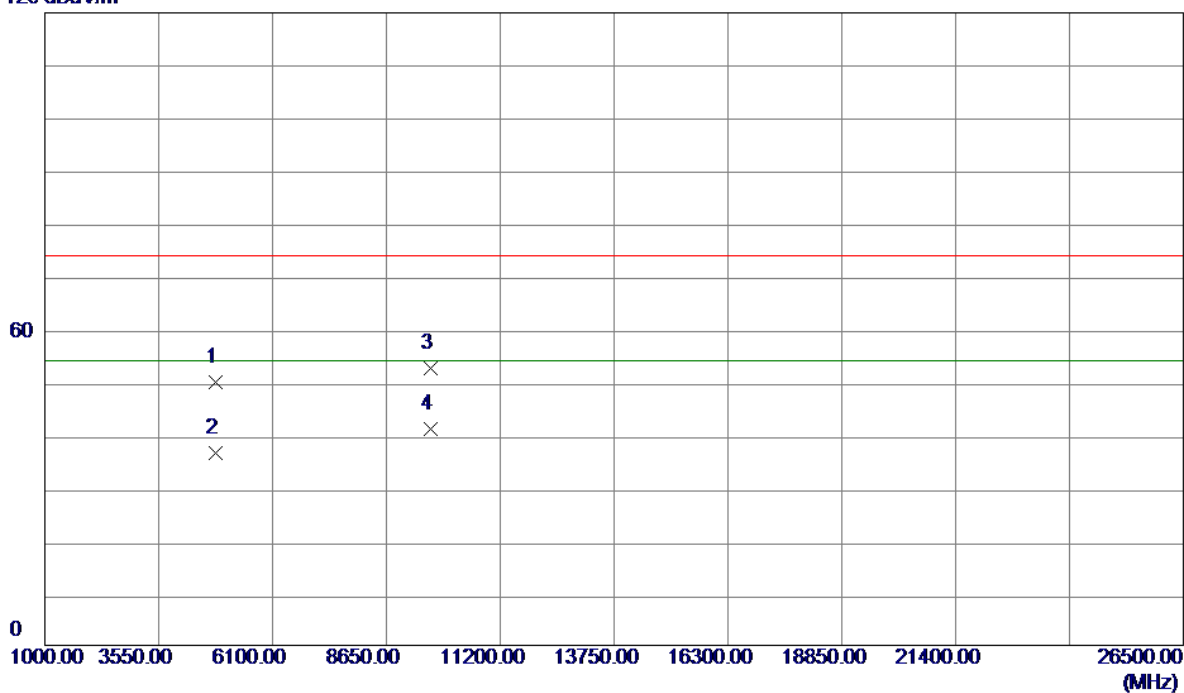


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.78	30.97	69.75	74.00	-4.25	Peak	
2	2390.0000	17.74	30.97	48.71	54.00	-5.29	AVG	
3	2412.0000	76.17	31.05	107.22	74.00	33.22	Peak	No Limit
4 *	2412.0000	65.49	31.05	96.54	54.00	42.54	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2412 MHz_Without Pistol

Vertical

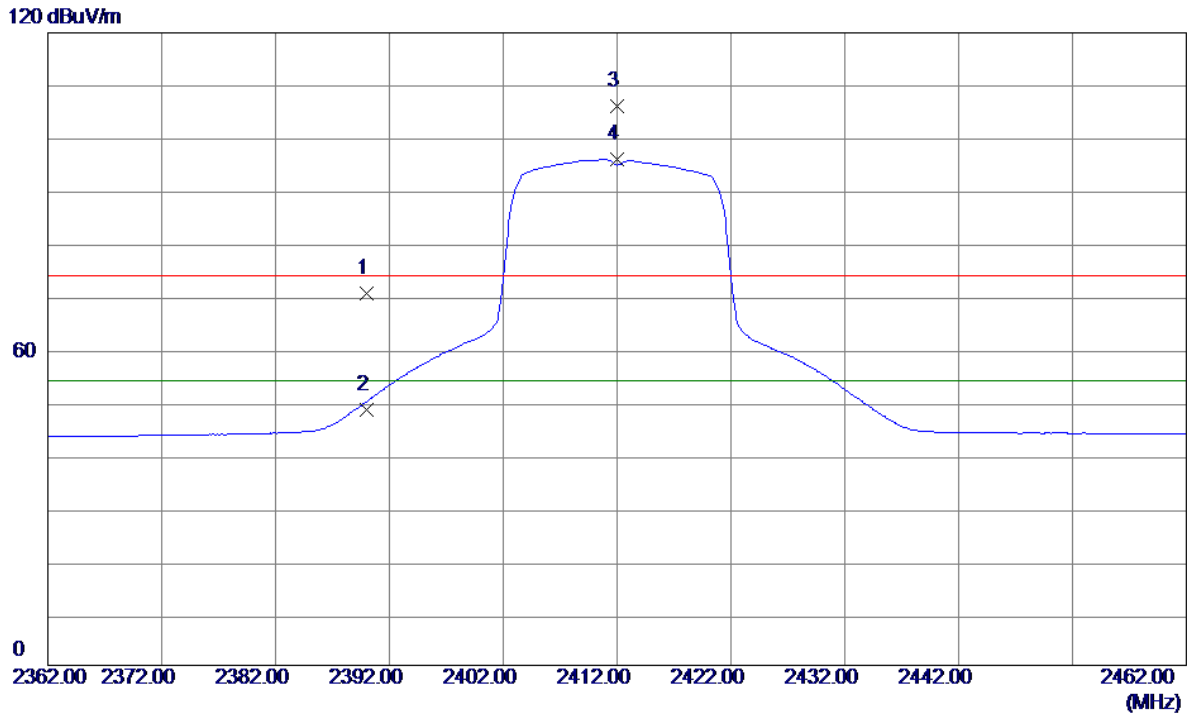
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	61.40	-11.47	49.93	74.00	-24.07	Peak	
2	4824.0000	48.03	-11.47	36.56	54.00	-17.44	AVG	
3	9648.0000	51.73	0.81	52.54	74.00	-21.46	Peak	
4 *	9648.0000	40.24	0.81	41.05	54.00	-12.95	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2412 MHz_Without Pistol

Horizontal

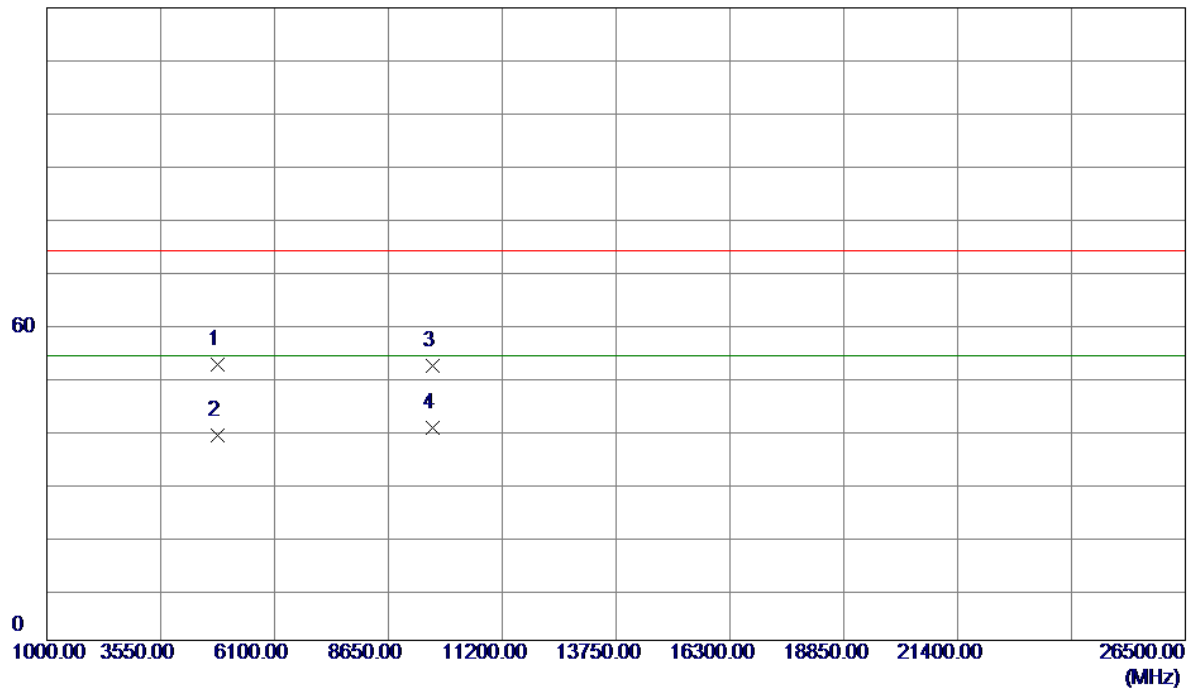


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.61	30.97	70.58	74.00	-3.42	Peak	
2	2390.0000	17.61	30.97	48.58	54.00	-5.42	AVG	
3	2412.0000	75.14	31.05	106.19	74.00	32.19	Peak	No Limit
4 *	2412.0000	64.91	31.05	95.96	54.00	41.96	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2412 MHz_Without Pistol

Horizontal

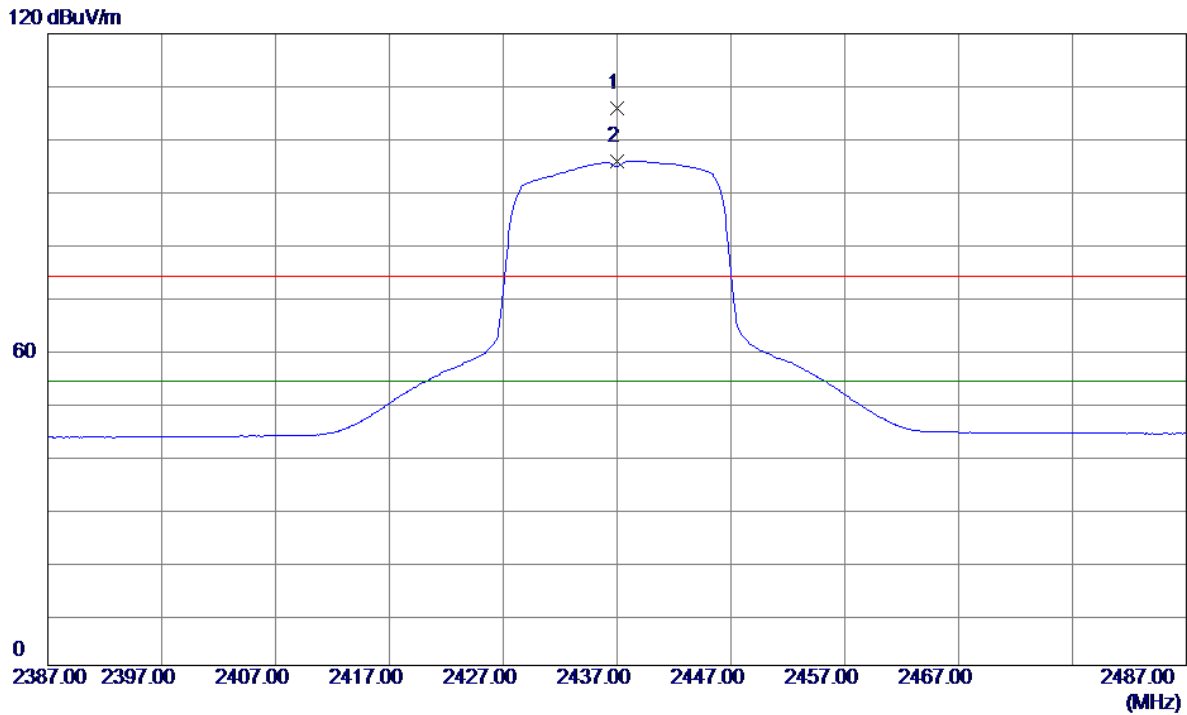
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	63.86	-11.47	52.39	74.00	-21.61	Peak	
2	4824.0000	50.26	-11.47	38.79	54.00	-15.21	AVG	
3	9648.0000	51.29	0.81	52.10	74.00	-21.90	Peak	
4 *	9648.0000	39.60	0.81	40.41	54.00	-13.59	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2437 MHz_Without Pistol

Vertical

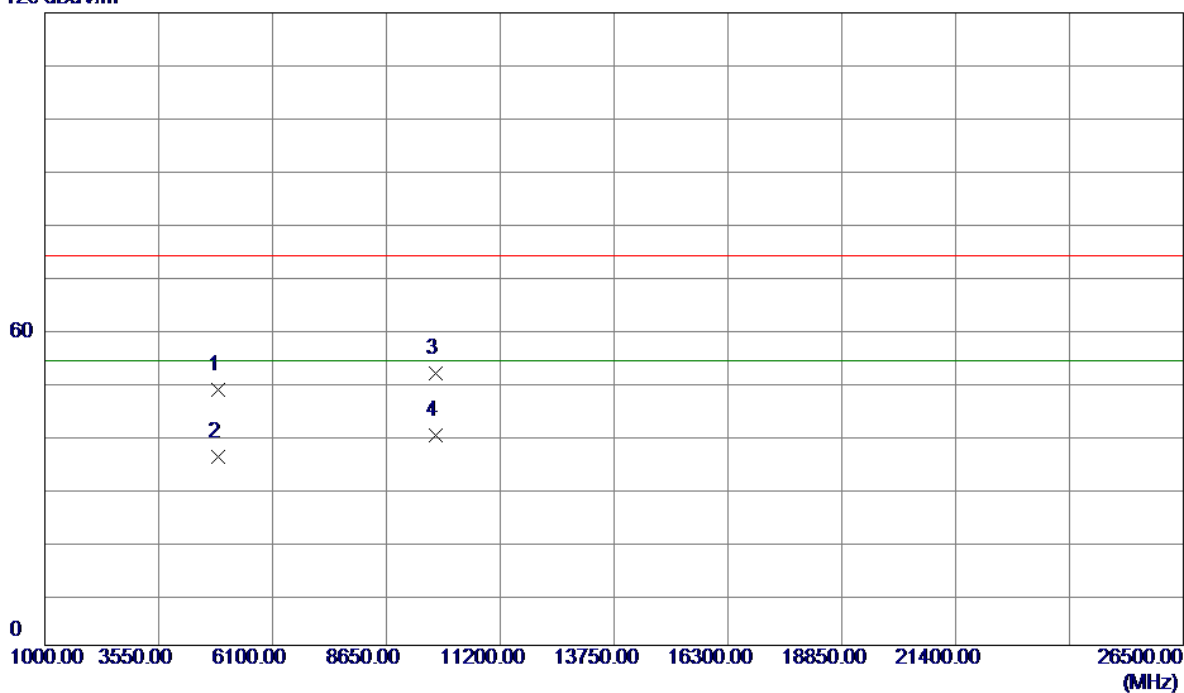


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	74.74	31.14	105.88	74.00	31.88	Peak	No Limit
2 *	2437.0000	64.69	31.14	95.83	54.00	41.83	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2437 MHz_Without Pistol

Vertical

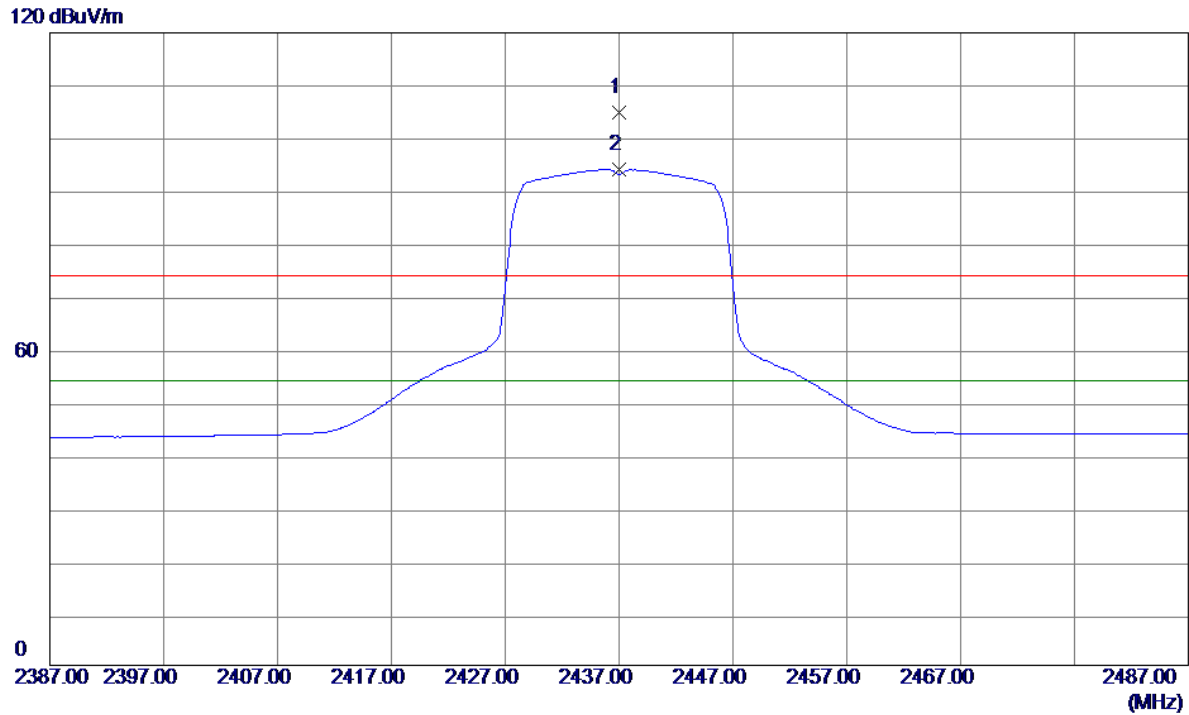
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	59.84	-11.39	48.45	74.00	-25.55	Peak	
2	4874.0000	47.05	-11.39	35.66	54.00	-18.34	AVG	
3	9748.0000	50.46	1.10	51.56	74.00	-22.44	Peak	
4 *	9748.0000	38.79	1.10	39.89	54.00	-14.11	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2437 MHz_Without Pistol

Horizontal

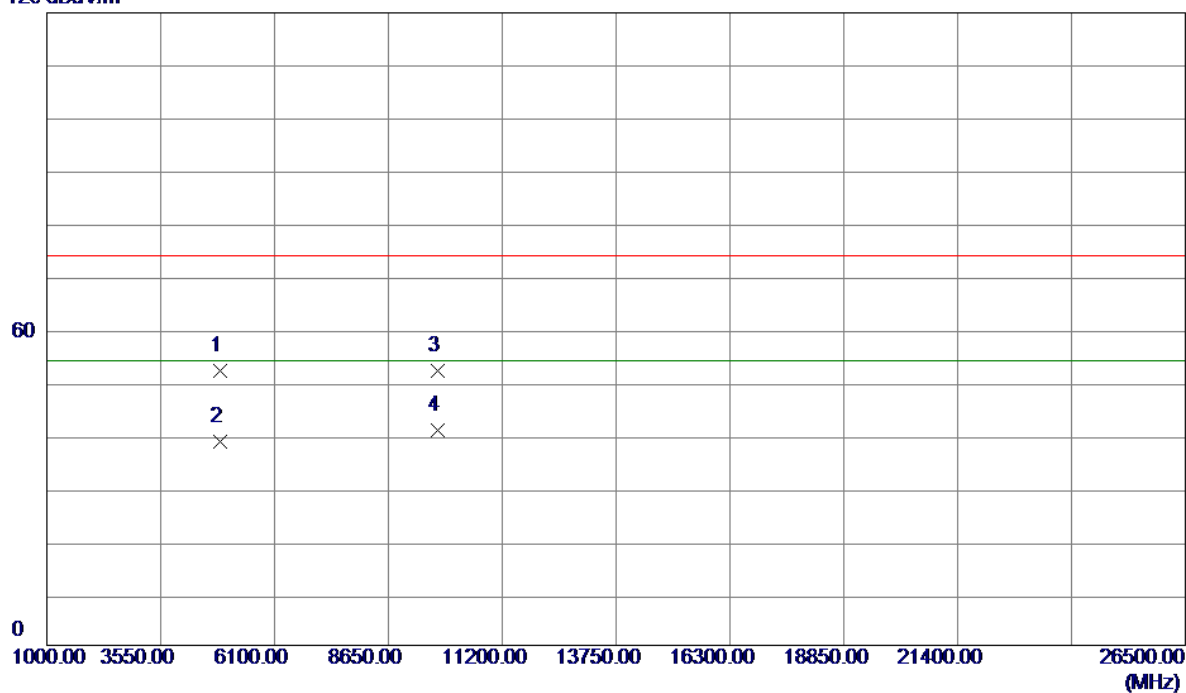


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	73.62	31.14	104.76	74.00	30.76	Peak	No Limit
2 *	2437.0000	62.98	31.14	94.12	54.00	40.12	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2437 MHz_Without Pistol

Horizontal

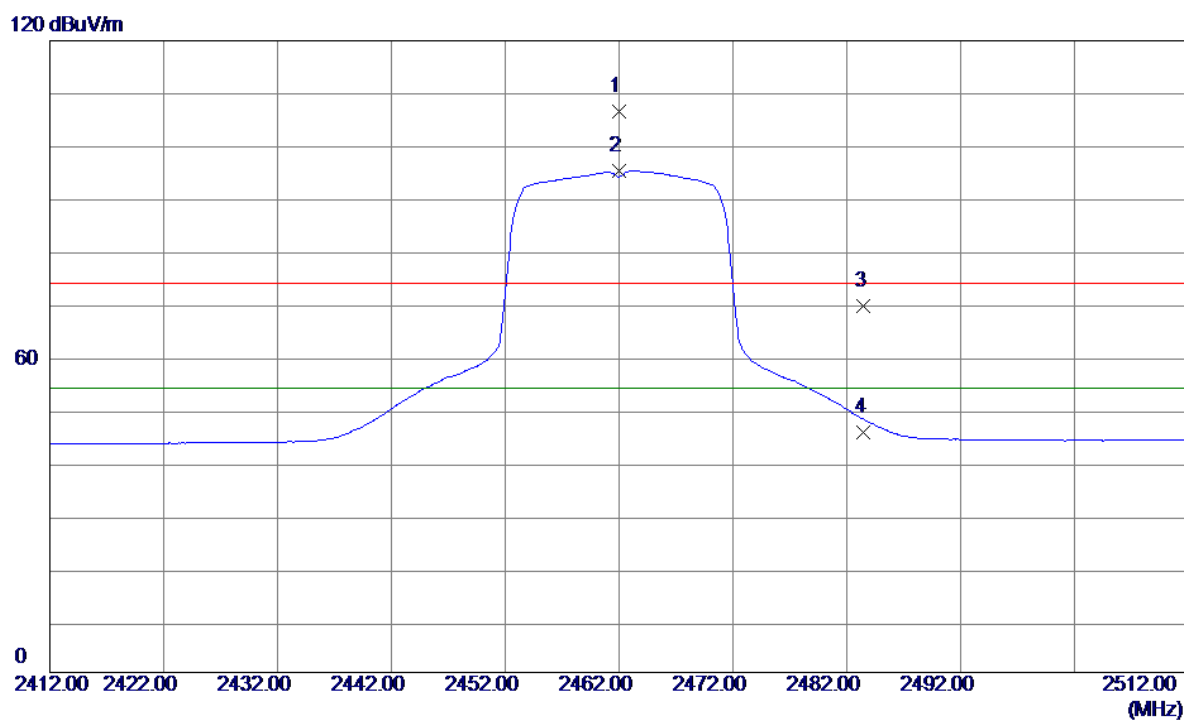
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	63.37	-11.39	51.98	74.00	-22.02	Peak	
2	4874.0000	50.07	-11.39	38.68	54.00	-15.32	AVG	
3	9748.0000	51.08	1.10	52.18	74.00	-21.82	Peak	
4 *	9748.0000	39.66	1.10	40.76	54.00	-13.24	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2462 MHz_Without Pistol

Vertical

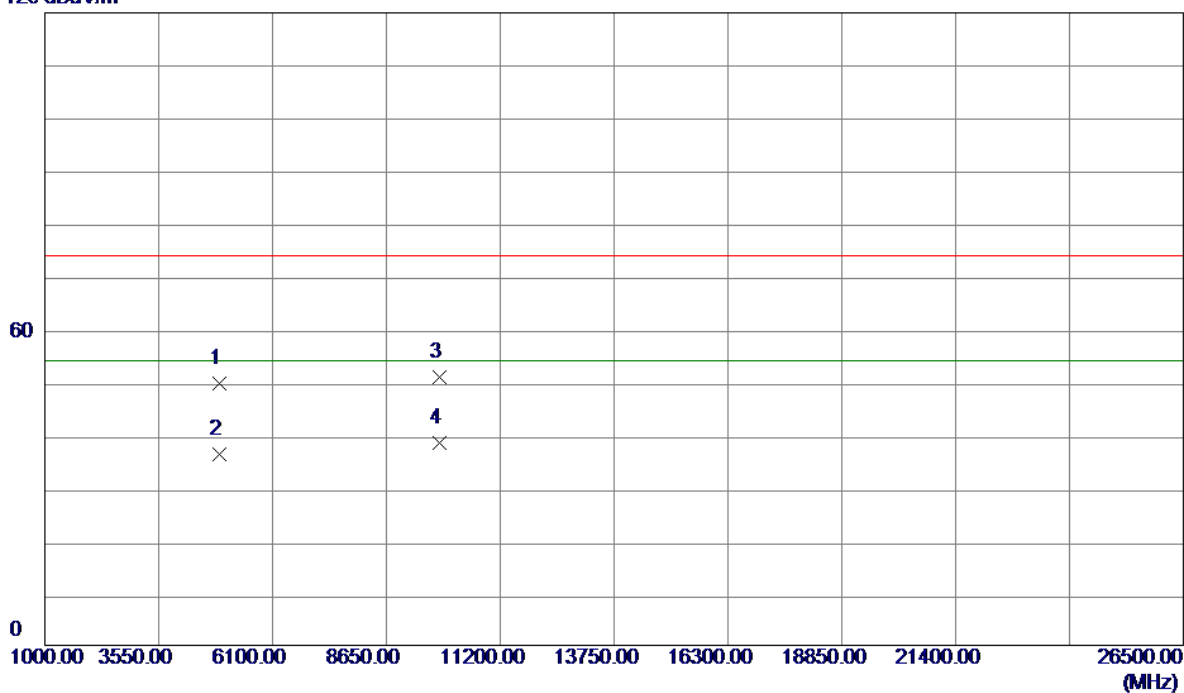


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	75.26	31.23	106.49	74.00	32.49	Peak	No Limit
2 *	2462.0000	64.02	31.23	95.25	54.00	41.25	AVG	No Limit
3	2483.5000	38.29	31.31	69.60	74.00	-4.40	Peak	
4	2483.5000	14.30	31.31	45.61	54.00	-8.39	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2462 MHz_Without Pistol

Vertical

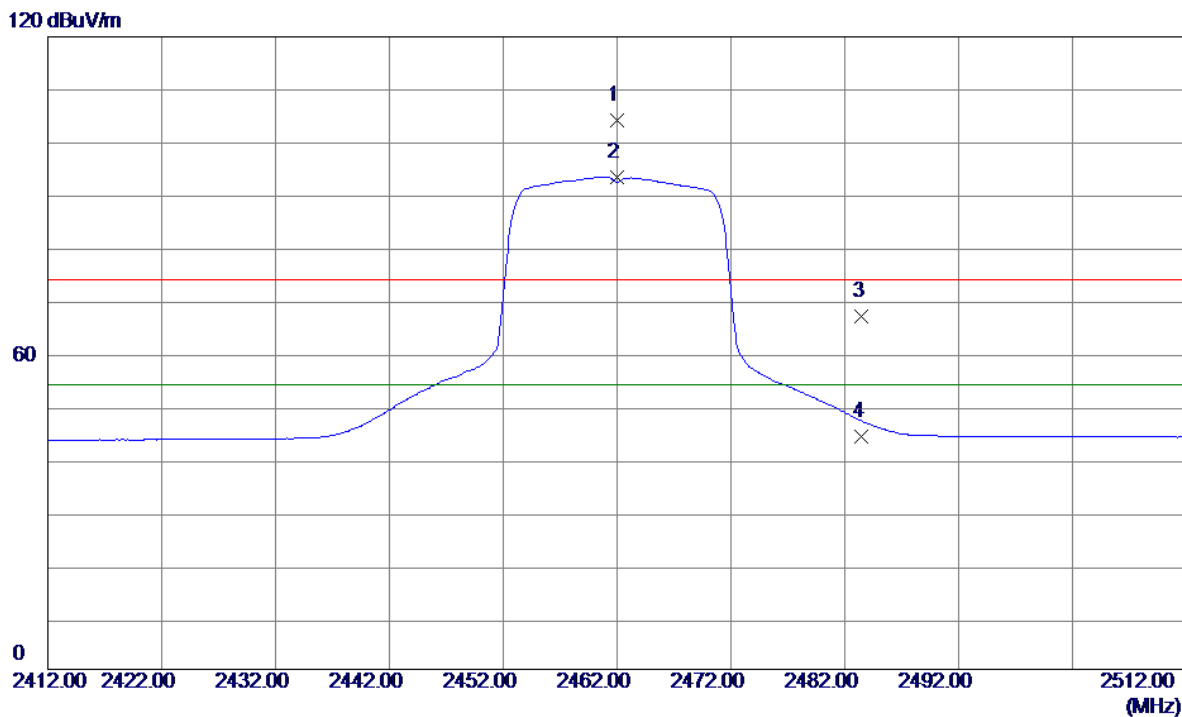
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	60.99	-11.32	49.67	74.00	-24.33	Peak	
2	4924.0000	47.47	-11.32	36.15	54.00	-17.85	AVG	
3	9848.0000	49.46	1.39	50.85	74.00	-23.15	Peak	
4 *	9848.0000	37.07	1.39	38.46	54.00	-15.54	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2462 MHz_Without Pistol

Horizontal

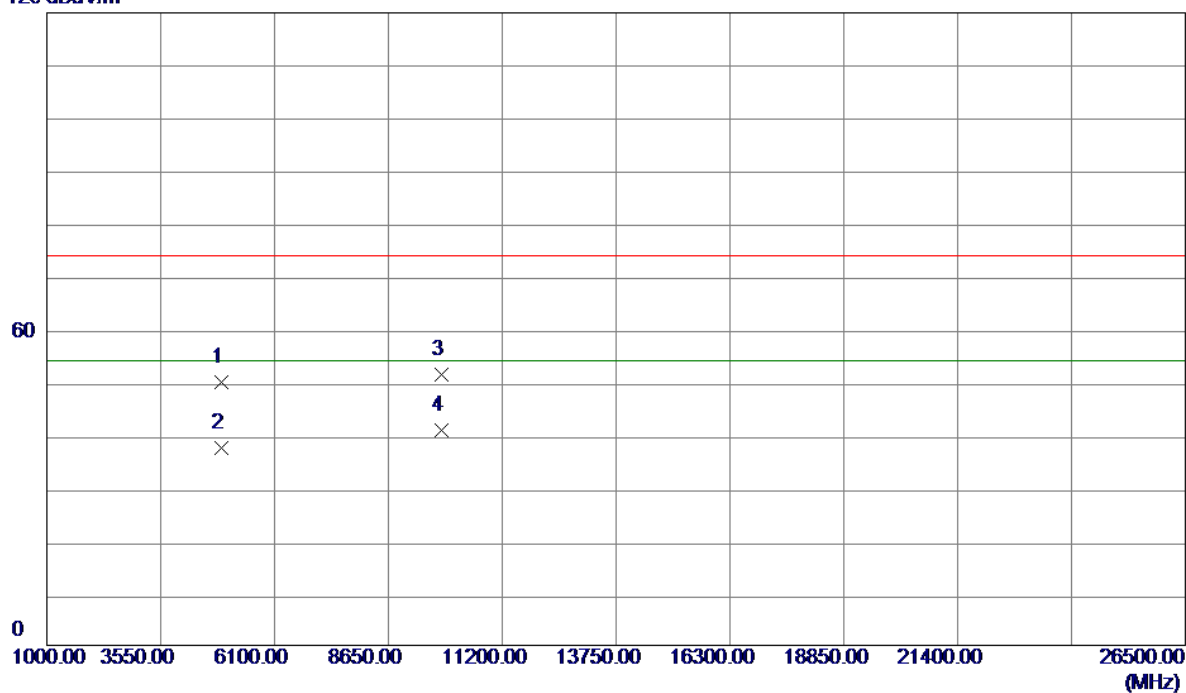


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.0000	72.83	31.23	104.06	74.00	30.06	Peak	No Limit
2 *	2462.0000	62.23	31.23	93.46	54.00	39.46	AVG	No Limit
3	2483.5000	35.56	31.31	66.87	74.00	-7.13	Peak	
4	2483.5000	12.77	31.31	44.08	54.00	-9.92	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-20M MODE 2462 MHz_Without Pistol

Horizontal

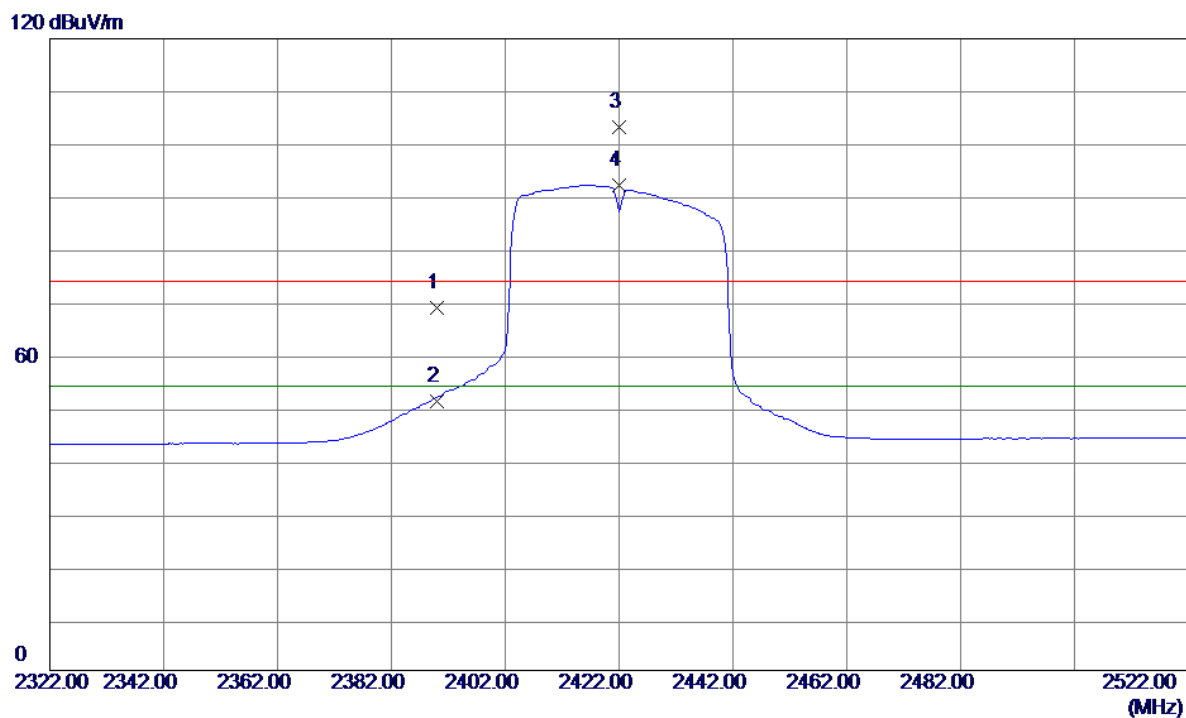
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0000	61.17	-11.32	49.85	74.00	-24.15	Peak	
2	4924.0000	48.67	-11.32	37.35	54.00	-16.65	AVG	
3	9848.0000	49.96	1.39	51.35	74.00	-22.65	Peak	
4 *	9848.0000	39.40	1.39	40.79	54.00	-13.21	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2422 MHz_Without Pistol

Vertical

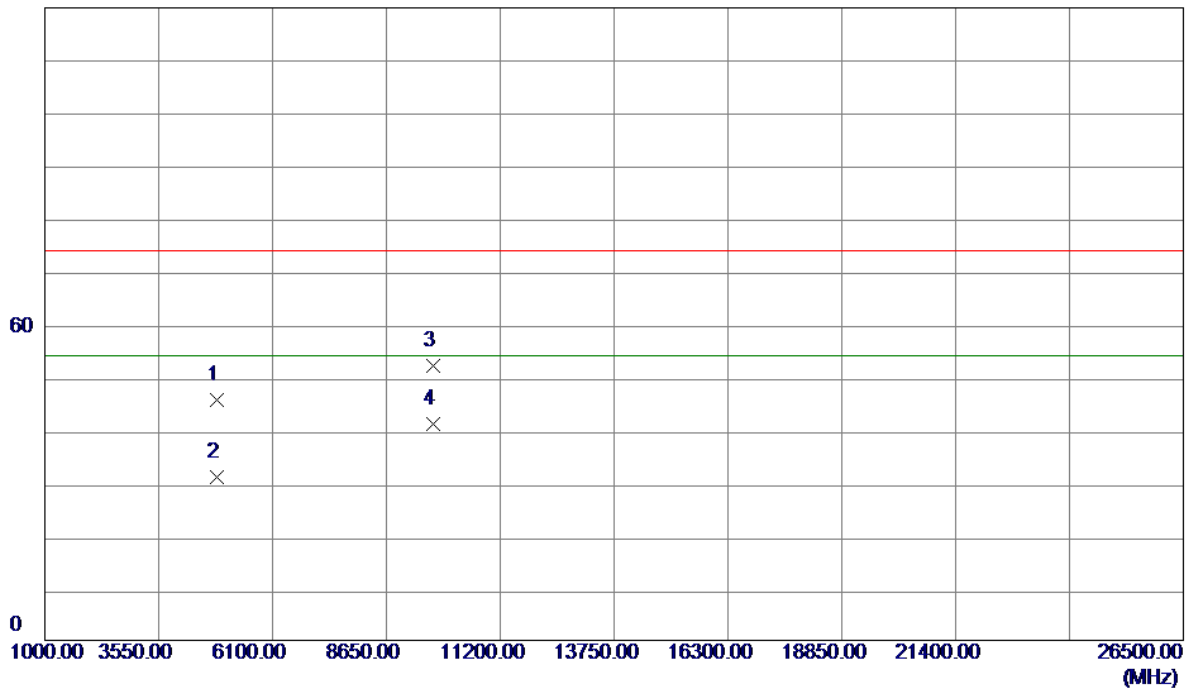


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	37.99	30.97	68.96	74.00	-5.04	Peak	
2	2390.0000	20.11	30.97	51.08	54.00	-2.92	AVG	
3	2422.0000	72.07	31.08	103.15	74.00	29.15	Peak	No Limit
4 *	2422.0000	61.12	31.08	92.20	54.00	38.20	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2422 MHz_Without Pistol

Vertical

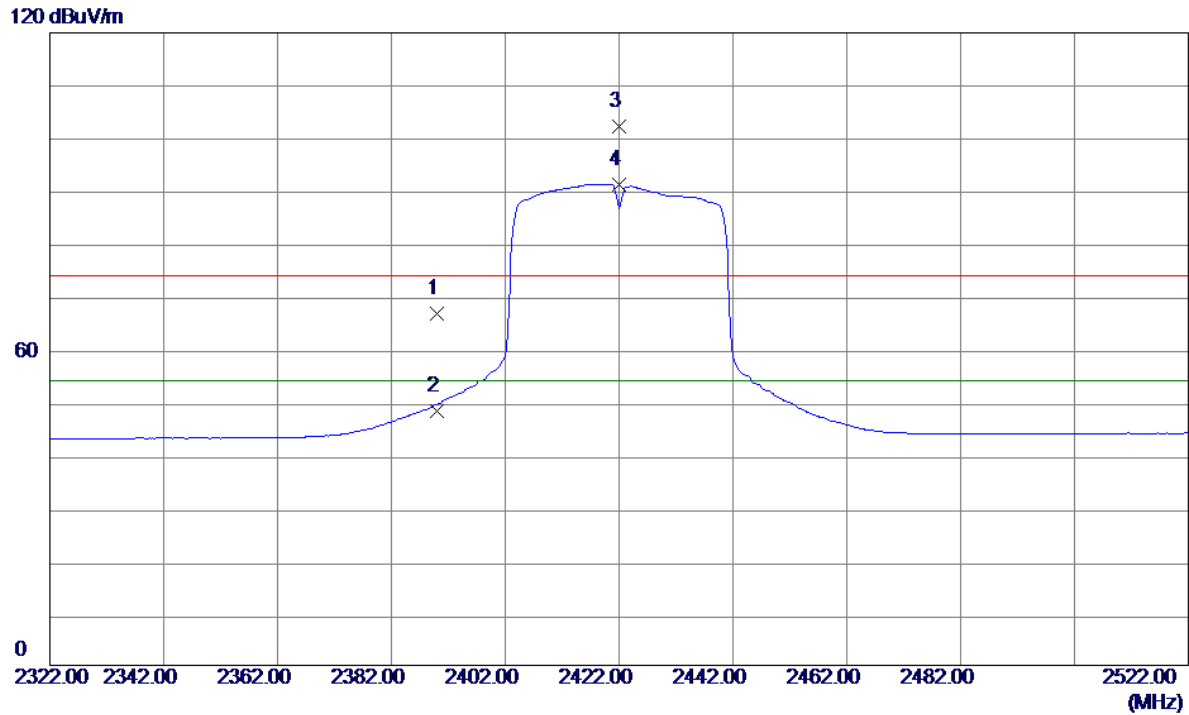
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	57.06	-11.44	45.62	74.00	-28.38	Peak	
2	4844.0000	42.37	-11.44	30.93	54.00	-23.07	AVG	
3	9688.0000	51.05	0.93	51.98	74.00	-22.02	Peak	
4 *	9688.0000	40.04	0.93	40.97	54.00	-13.03	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2422 MHz_Without Pistol

Horizontal

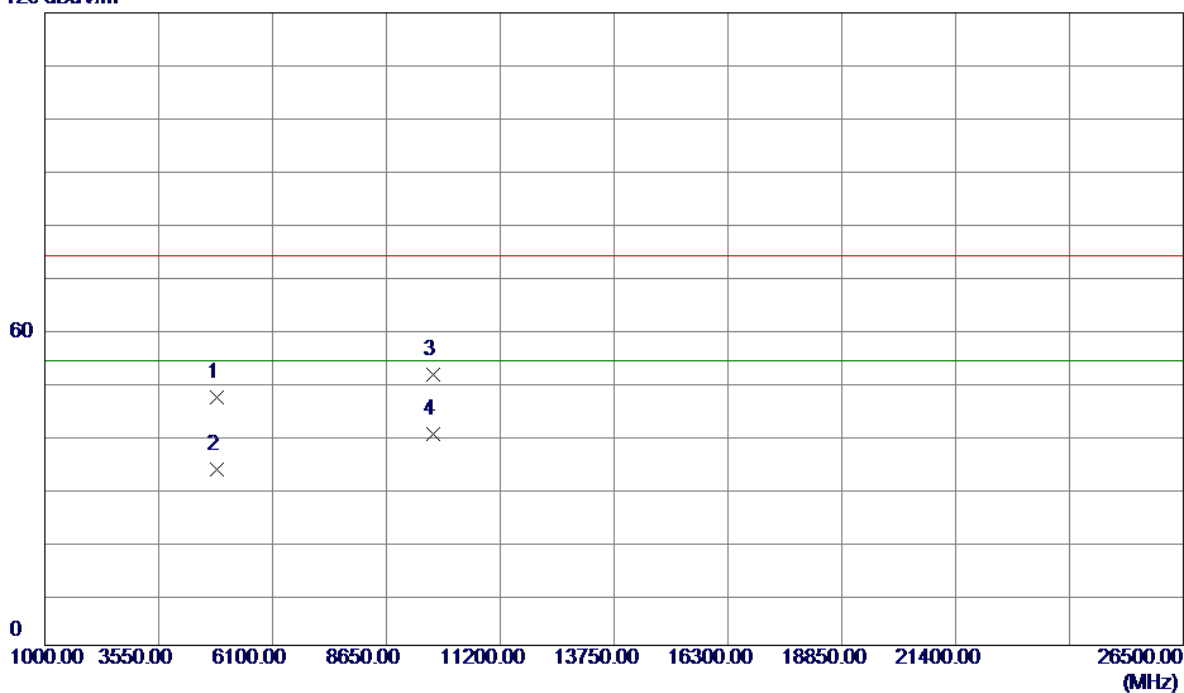


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.85	30.97	66.82	74.00	-7.18	Peak	
2	2390.0000	17.28	30.97	48.25	54.00	-5.75	AVG	
3	2422.0000	71.04	31.08	102.12	74.00	28.12	Peak	No Limit
4 *	2422.0000	60.22	31.08	91.30	54.00	37.30	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2422 MHz_Without Pistol

Horizontal

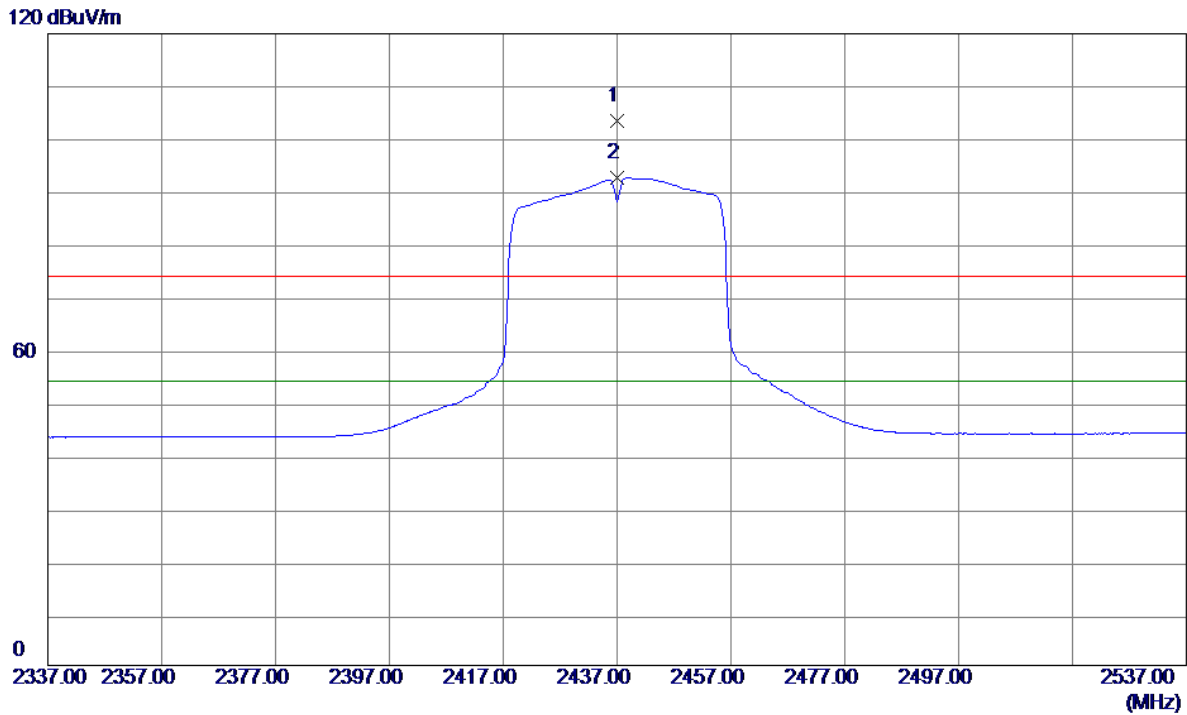
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0000	58.40	-11.44	46.96	74.00	-27.04	Peak	
2	4844.0000	44.76	-11.44	33.32	54.00	-20.68	AVG	
3	9688.0000	50.41	0.93	51.34	74.00	-22.66	Peak	
4 *	9688.0000	39.12	0.93	40.05	54.00	-13.95	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2437 MHz_Without Pistol

Vertical

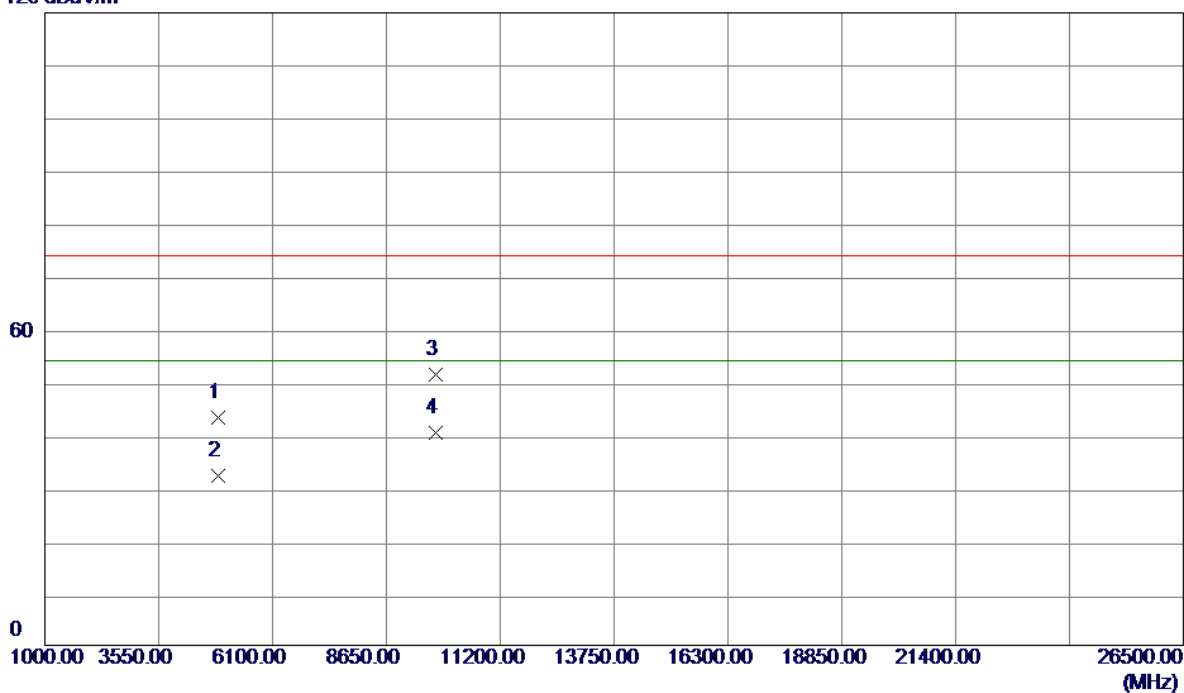


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	72.24	31.14	103.38	74.00	29.38	Peak	No Limit
2 *	2437.0000	61.42	31.14	92.56	54.00	38.56	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2437 MHz_Without Pistol

Vertical

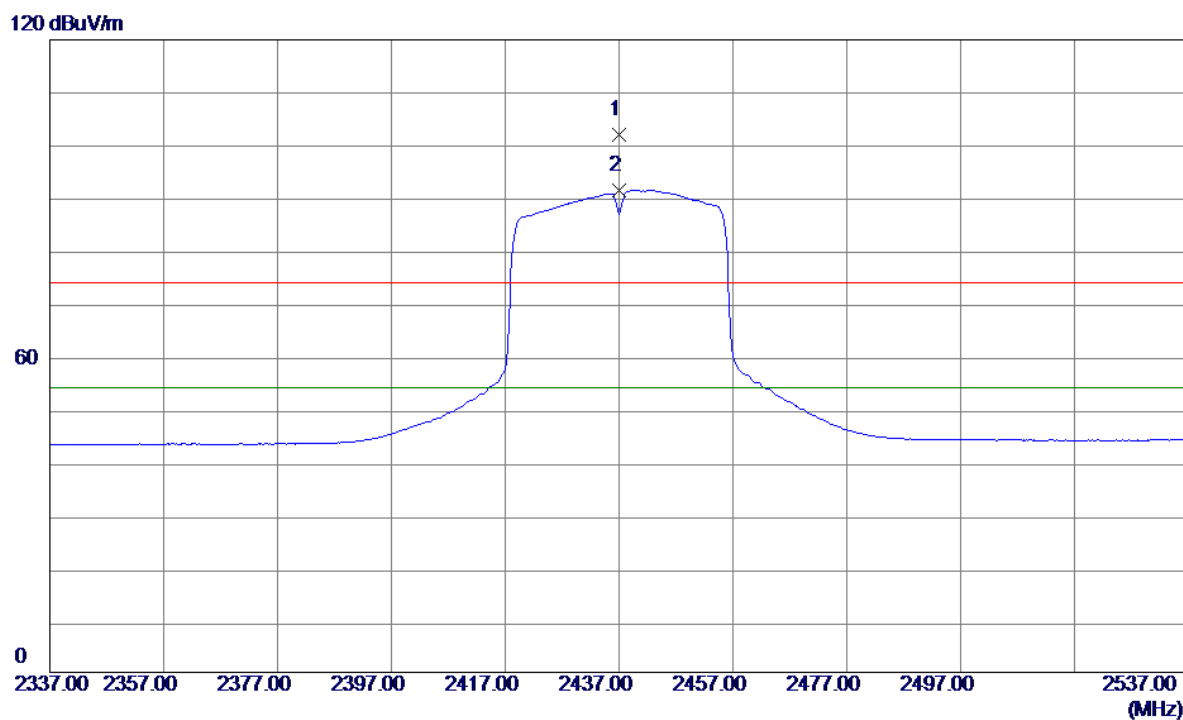
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	54.70	-11.39	43.31	74.00	-30.69	Peak	
2	4874.0000	43.46	-11.39	32.07	54.00	-21.93	AVG	
3	9748.0000	50.29	1.10	51.39	74.00	-22.61	Peak	
4 *	9748.0000	39.20	1.10	40.30	54.00	-13.70	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2437 MHz_Without Pistol

Horizontal

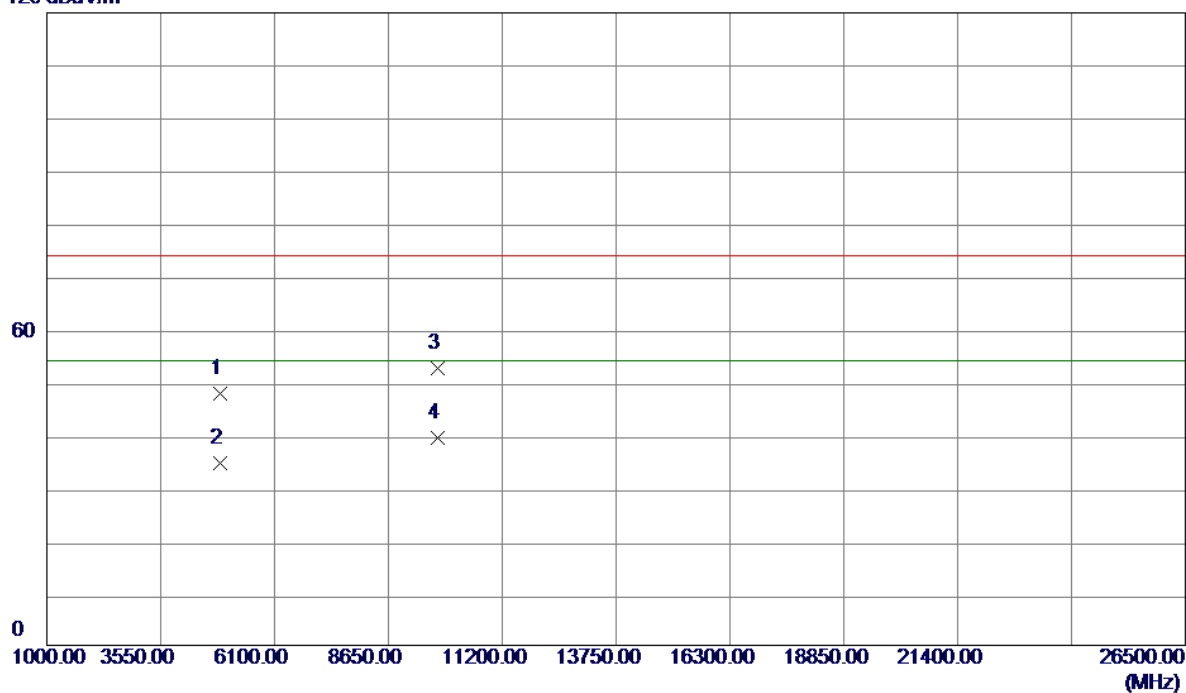


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.0000	70.76	31.14	101.90	74.00	27.90	Peak	No Limit
2 *	2437.0000	60.25	31.14	91.39	54.00	37.39	AVG	No Limit

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2437 MHz_Without Pistol

Horizontal

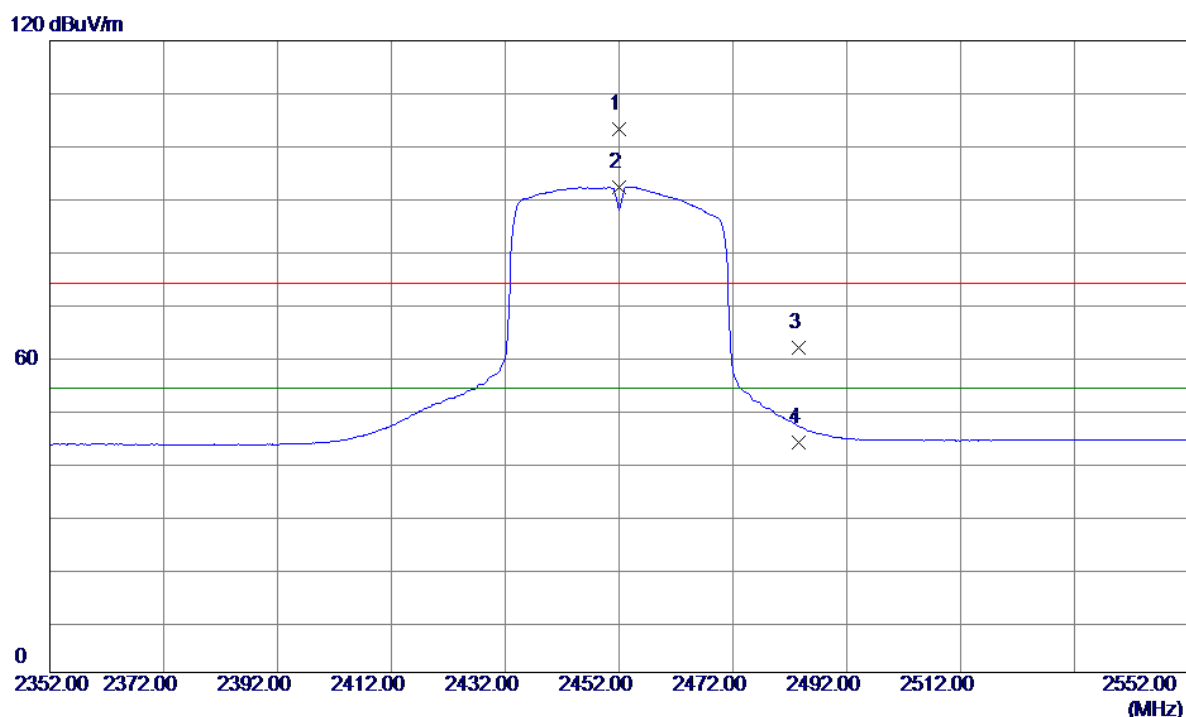
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	59.09	-11.39	47.70	74.00	-26.30	Peak	
2	4874.0000	46.06	-11.39	34.67	54.00	-19.33	AVG	
3	9748.0000	51.38	1.10	52.48	74.00	-21.52	Peak	
4 *	9748.0000	38.29	1.10	39.39	54.00	-14.61	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2452 MHz_Without Pistol

Vertical

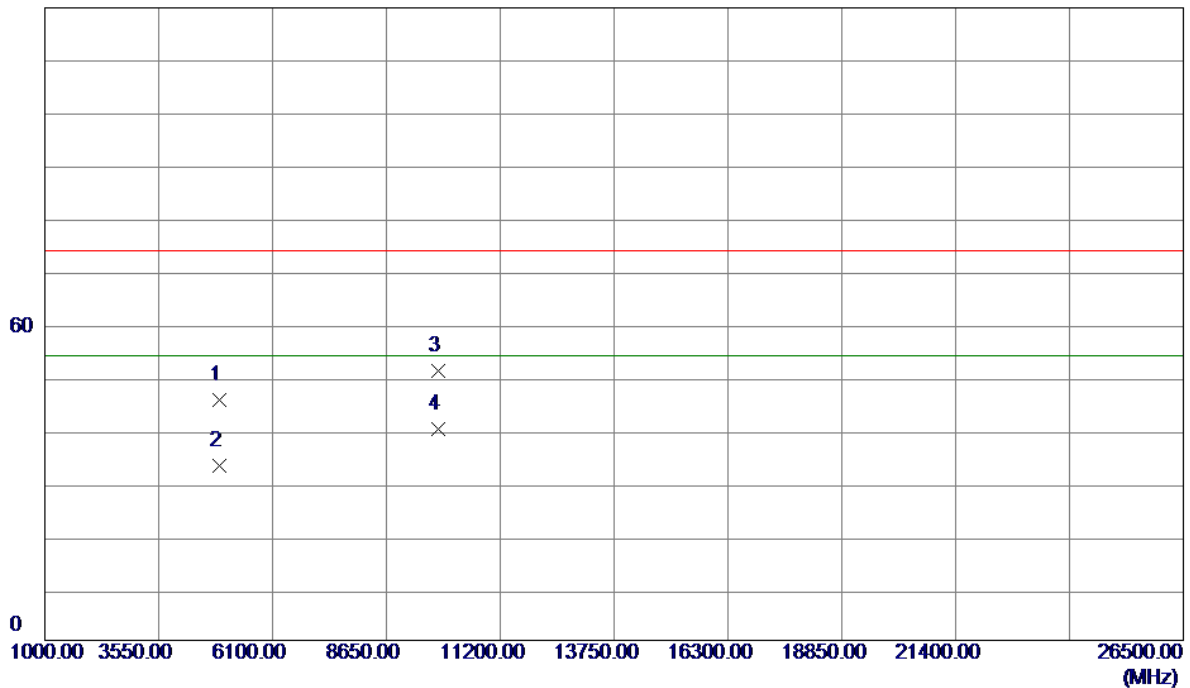


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2452.0000	72.01	31.19	103.20	74.00	29.20	Peak	No Limit
2 *	2452.0000	61.03	31.19	92.22	54.00	38.22	AVG	No Limit
3	2483.5000	30.40	31.31	61.71	74.00	-12.29	Peak	
4	2483.5000	12.26	31.31	43.57	54.00	-10.43	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2452 MHz_Without Pistol

Vertical

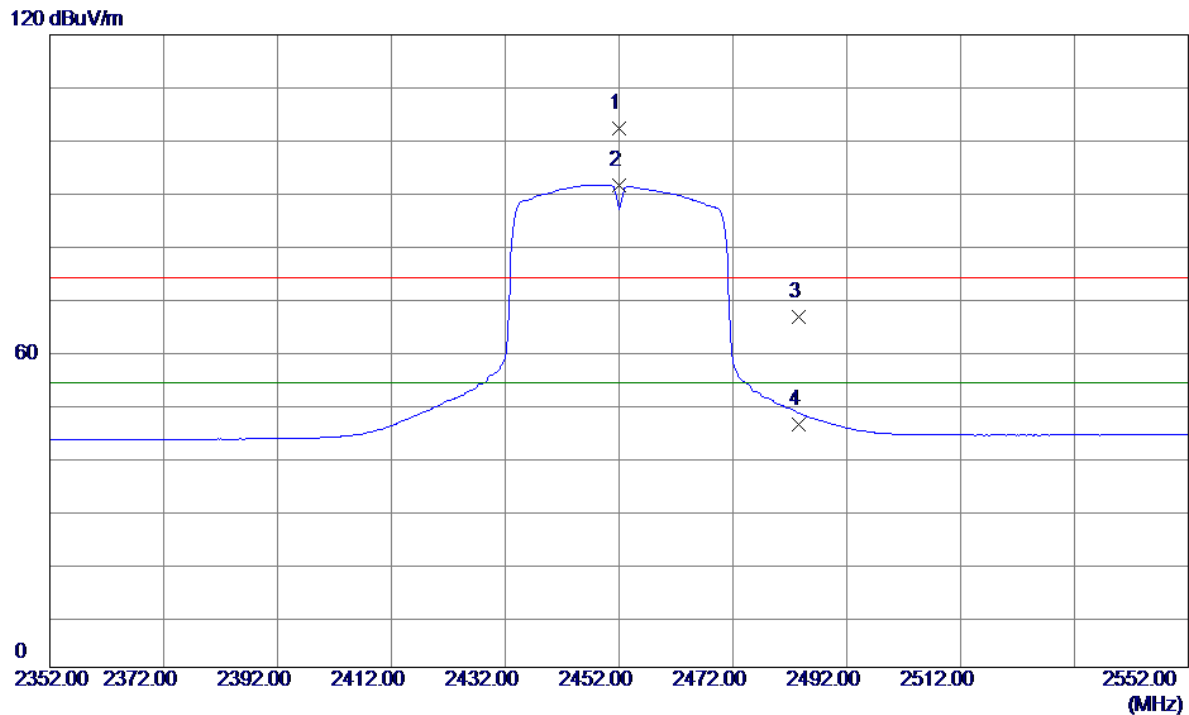
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	57.01	-11.35	45.66	74.00	-28.34	Peak	
2	4904.0000	44.57	-11.35	33.22	54.00	-20.78	AVG	
3	9808.0000	49.76	1.27	51.03	74.00	-22.97	Peak	
4 *	9808.0000	38.75	1.27	40.02	54.00	-13.98	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2452 MHz_Without Pistol

Horizontal

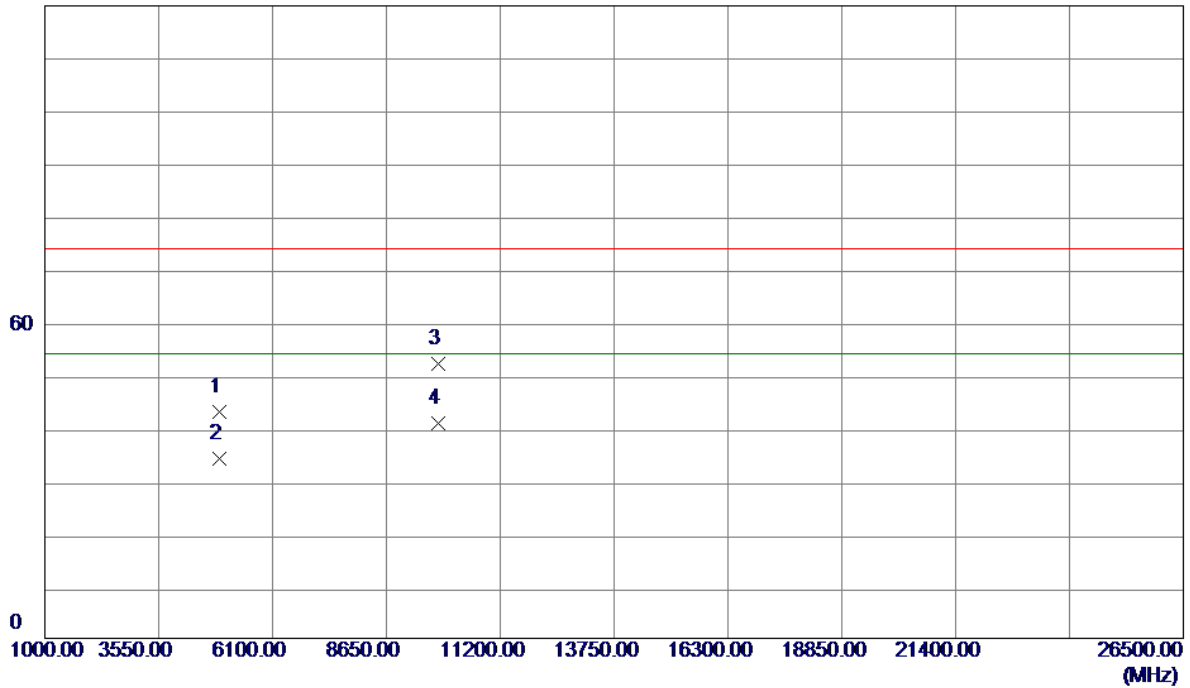


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2452.0000	71.16	31.19	102.35	74.00	28.35	Peak	No Limit
2 *	2452.0000	60.28	31.19	91.47	54.00	37.47	AVG	No Limit
3	2483.5000	35.26	31.31	66.57	74.00	-7.43	Peak	
4	2483.5000	14.88	31.31	46.19	54.00	-7.81	AVG	

Orthogonal Axis :	Z
Test Mode :	TX N-40M MODE 2452 MHz_Without Pistol

Horizontal

120 dBuV/m



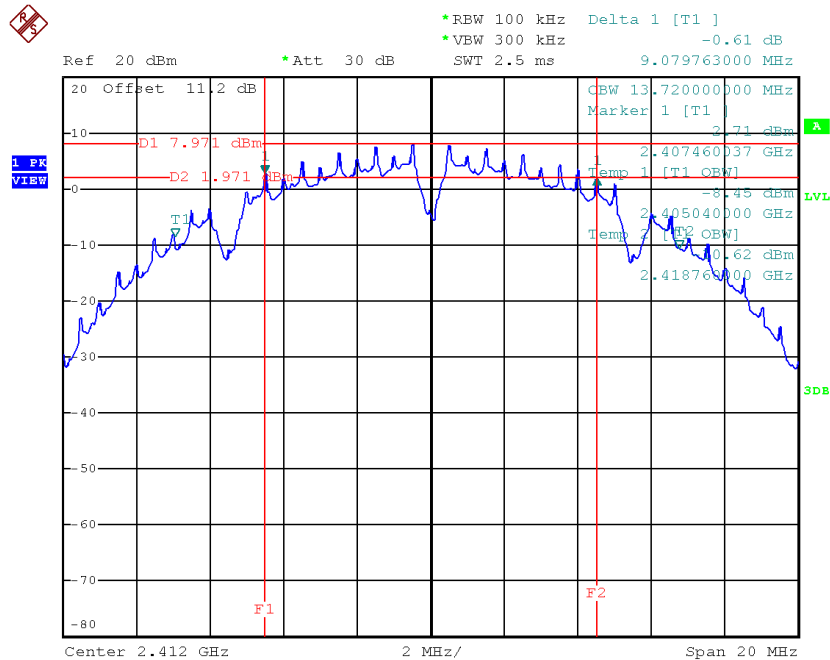
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.0000	54.30	-11.35	42.95	74.00	-31.05	Peak	
2	4924.0000	45.35	-11.32	34.03	54.00	-19.97	AVG	
3	9808.0000	50.90	1.27	52.17	74.00	-21.83	Peak	
4 *	9808.0000	39.65	1.27	40.92	54.00	-13.08	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

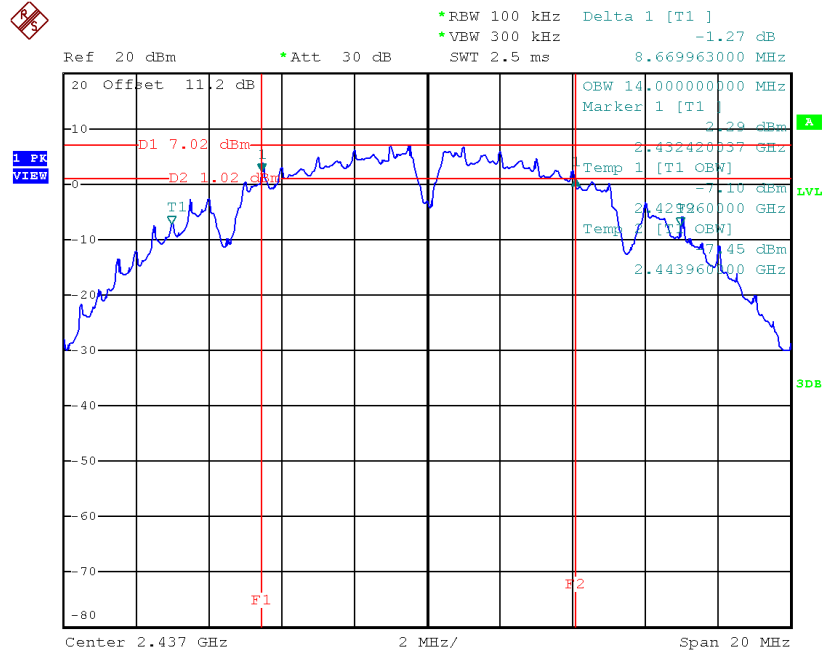
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.08	13.72	500	Complies
2437	8.67	14.00	500	Complies
2462	9.08	13.64	500	Complies

TX CH01



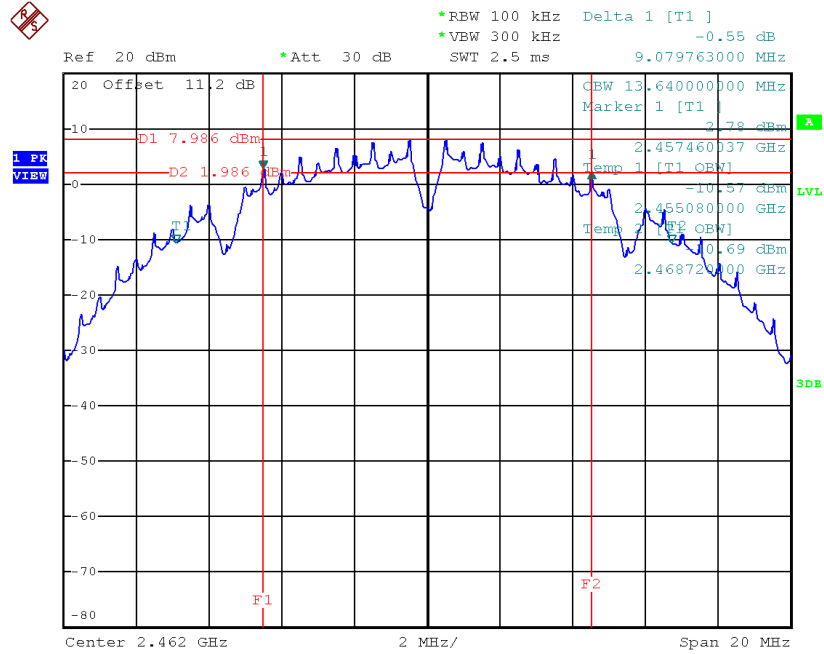
Date: 21.DEC.2016 20:47:46

TX CH06



Date: 21.DEC.2016 20:49:52

TX CH11

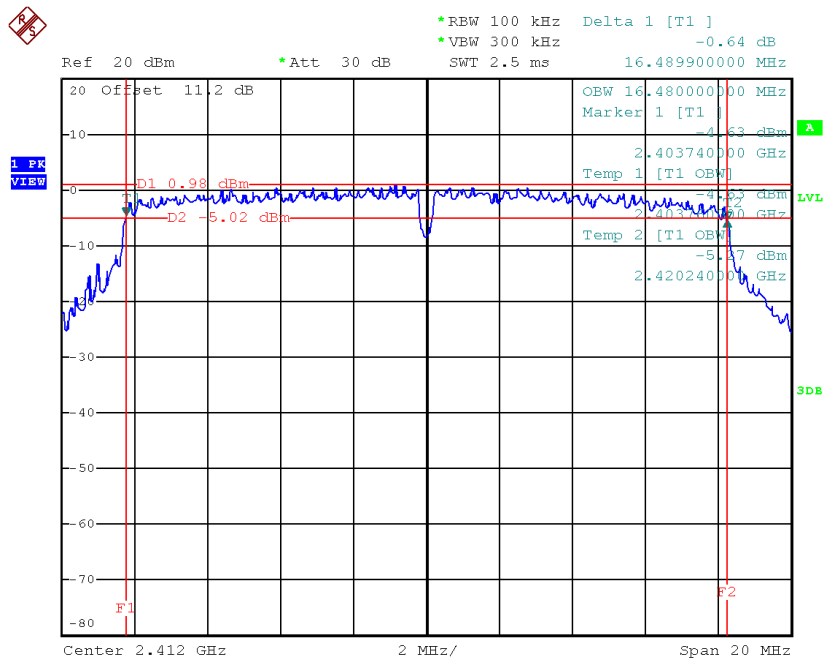


Date: 21.DEC.2016 20:53:37

Test Mode: TX G Mode_CH01/06/11

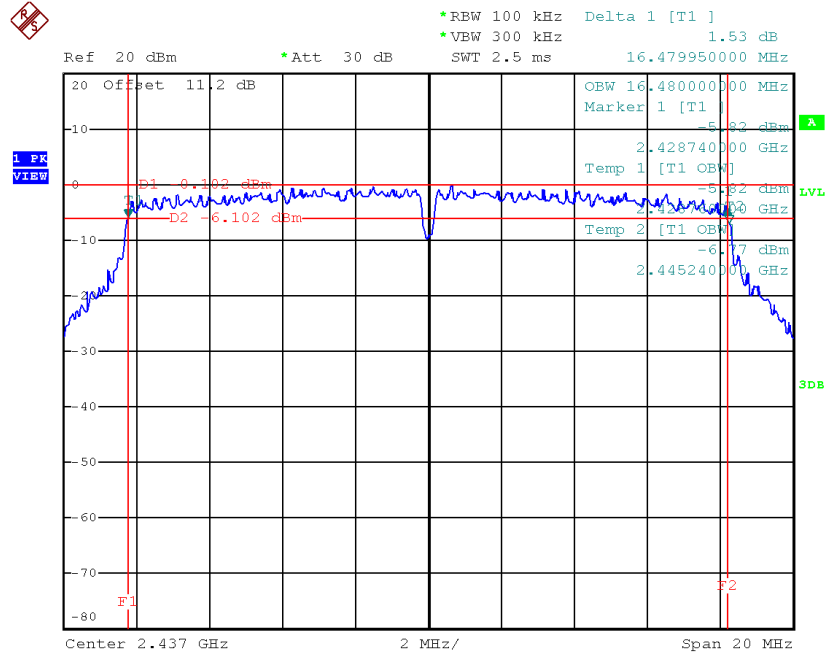
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.49	16.48	500	Complies
2437	16.48	16.48	500	Complies
2462	16.53	16.44	500	Complies

TX CH01



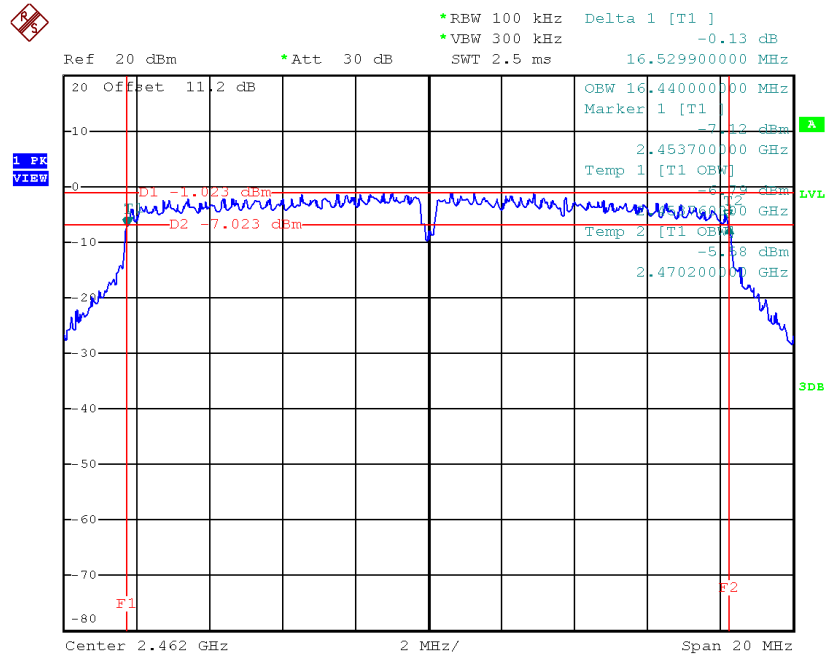
Date: 19.DEC.2016 19:55:51

TX CH06



Date: 19.DEC.2016 19:57:33

TX CH11

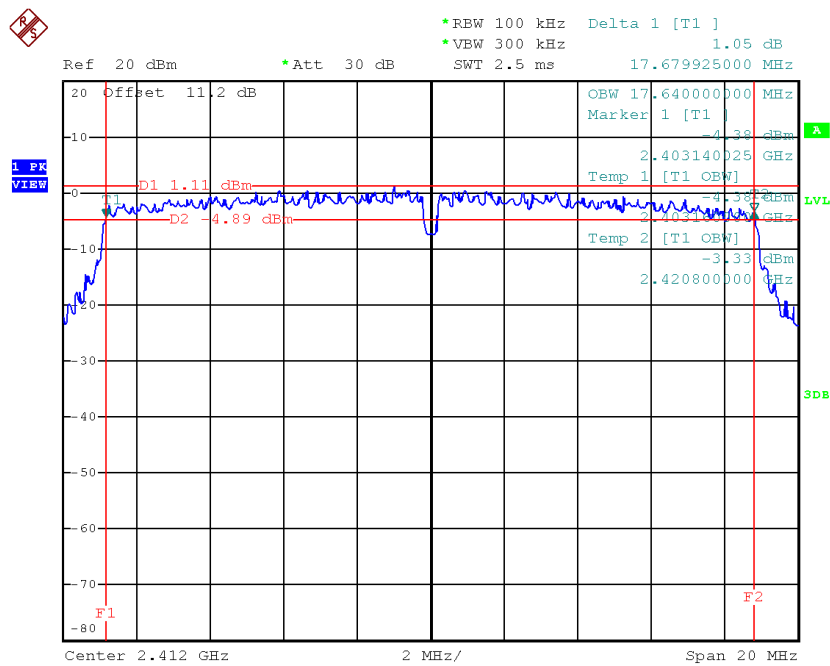


Date: 19.DEC.2016 19:58:54

Test Mode : TX N-20 MHz Mode_CH01/06/11

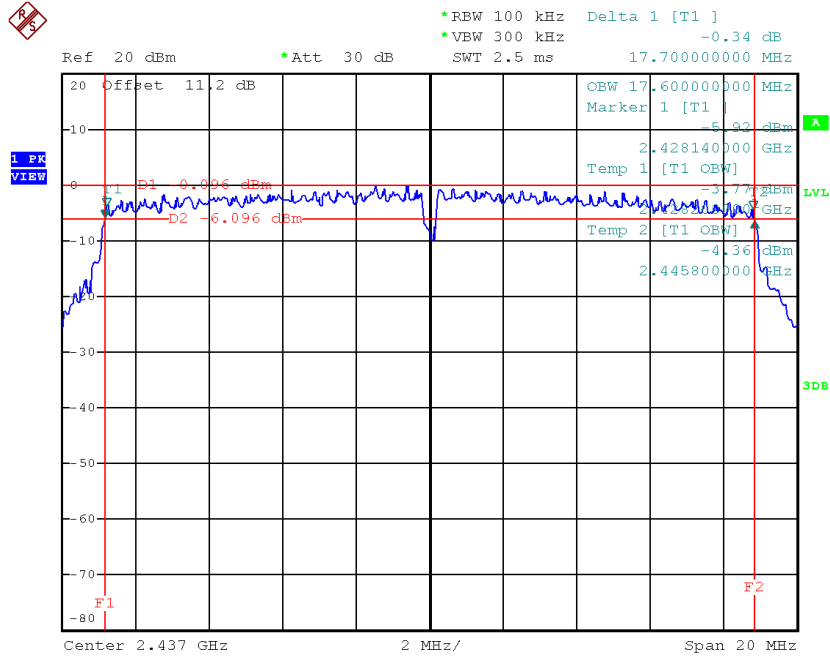
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.68	17.64	500	Complies
2437	17.70	17.60	500	Complies
2462	17.76	17.64	500	Complies

TX CH01



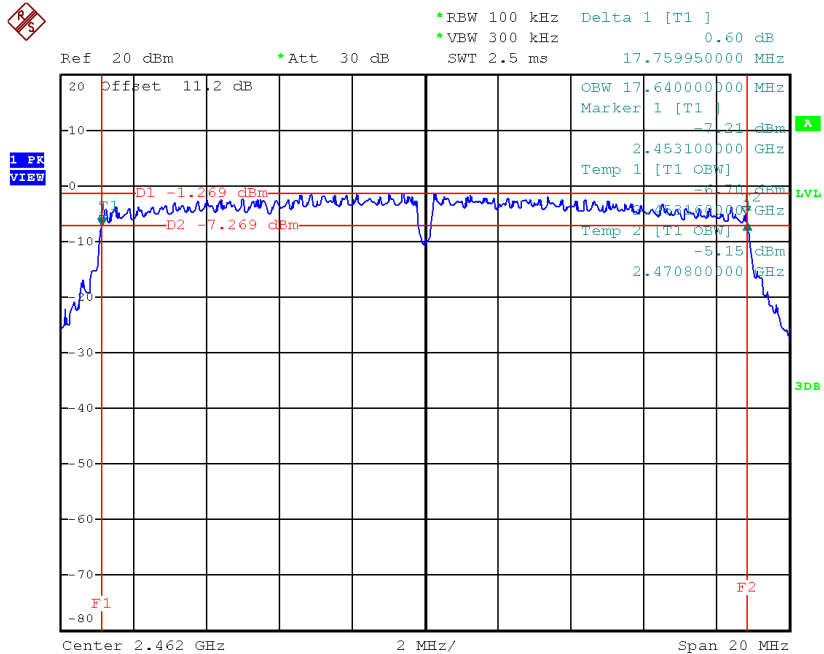
Date: 19.DEC.2016 20:04:37

TX CH06



Date: 19.DEC.2016 20:05:53

TX CH11

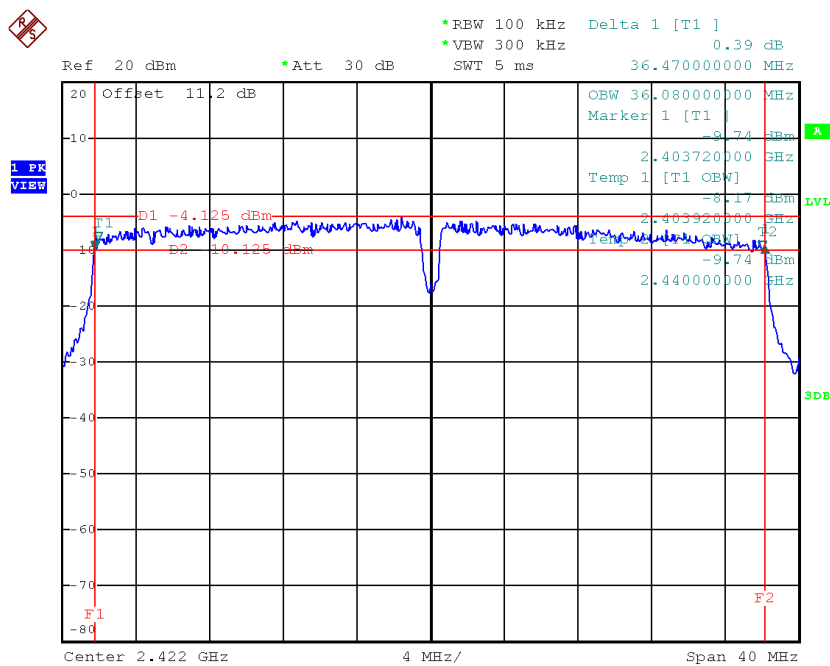


Date: 19.DEC.2016 20:20:17

Test Mode : TX N-40 MHz Mode_CH03/06/09

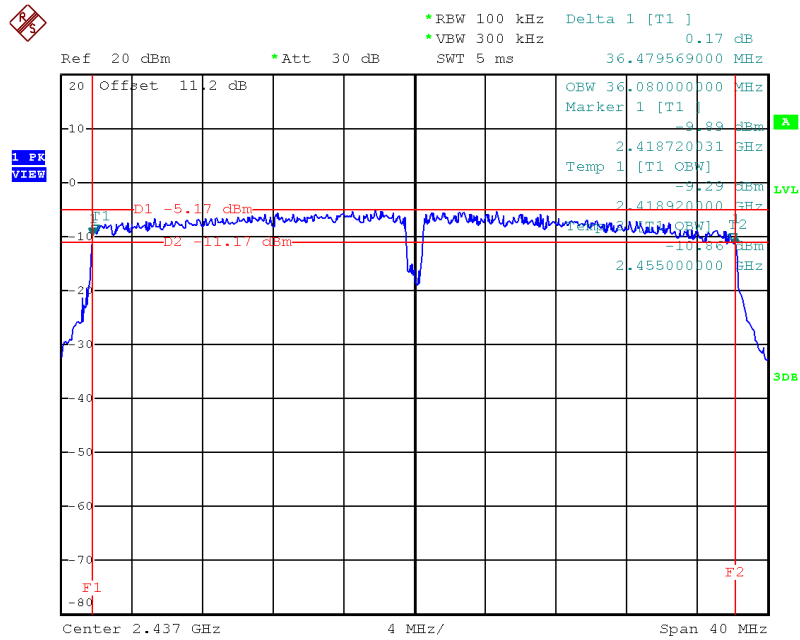
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.47	36.08	500	Complies
2437	36.48	36.08	500	Complies
2452	36.52	36.08	500	Complies

TX CH03



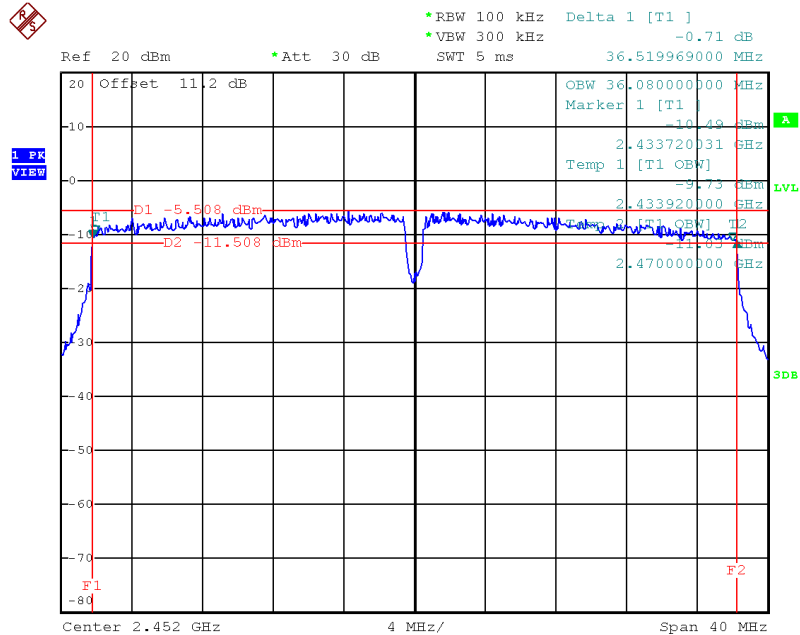
Date: 19.DEC.2016 20:21:52

TX CH06



Date: 19.DEC.2016 20:23:35

TX CH09



Date: 19.DEC.2016 20:24:46

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.40	0.09	30.00	1.00	Complies
2437	19.14	0.08	30.00	1.00	Complies
2462	19.62	0.09	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.03	0.20	30.00	1.00	Complies
2437	22.14	0.16	30.00	1.00	Complies
2462	21.68	0.15	30.00	1.00	Complies

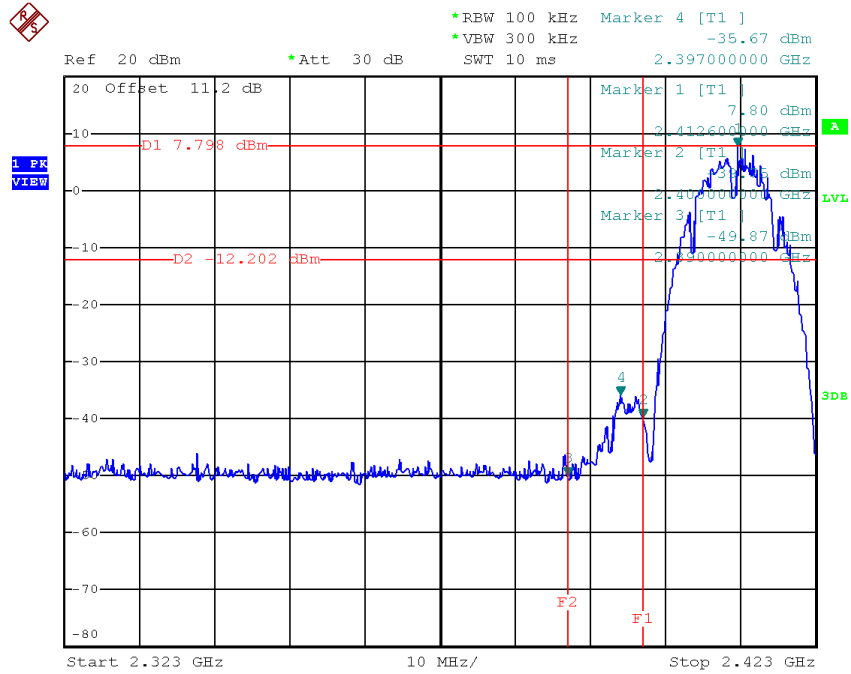
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.01	0.20	30.00	1.00	Complies
2437	22.31	0.17	30.00	1.00	Complies
2462	22.16	0.16	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.43	0.14	30.00	1.00	Complies
2437	21.03	0.13	30.00	1.00	Complies
2452	20.31	0.11	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

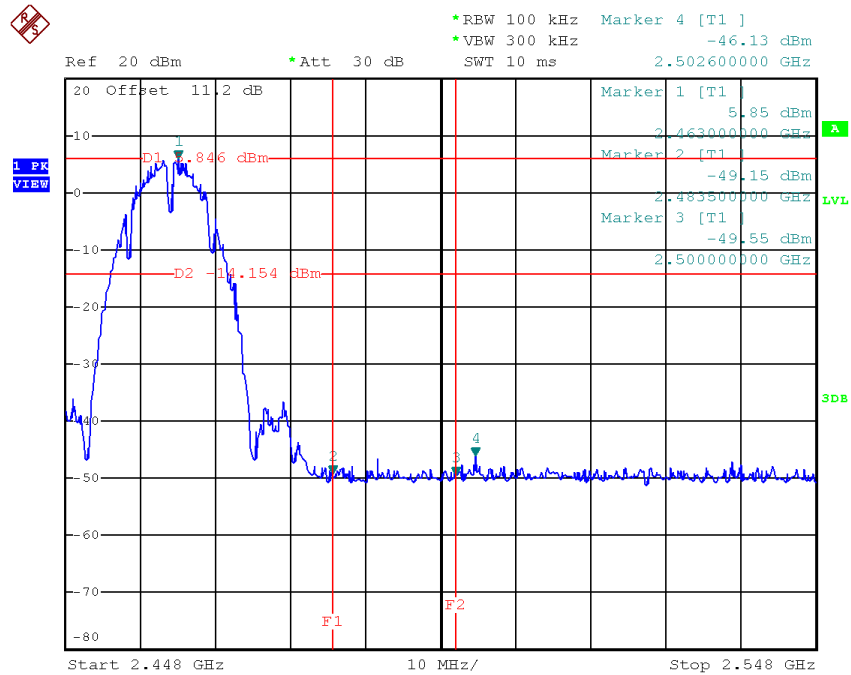
Test Mode : TX B Mode

TX B mode CH01



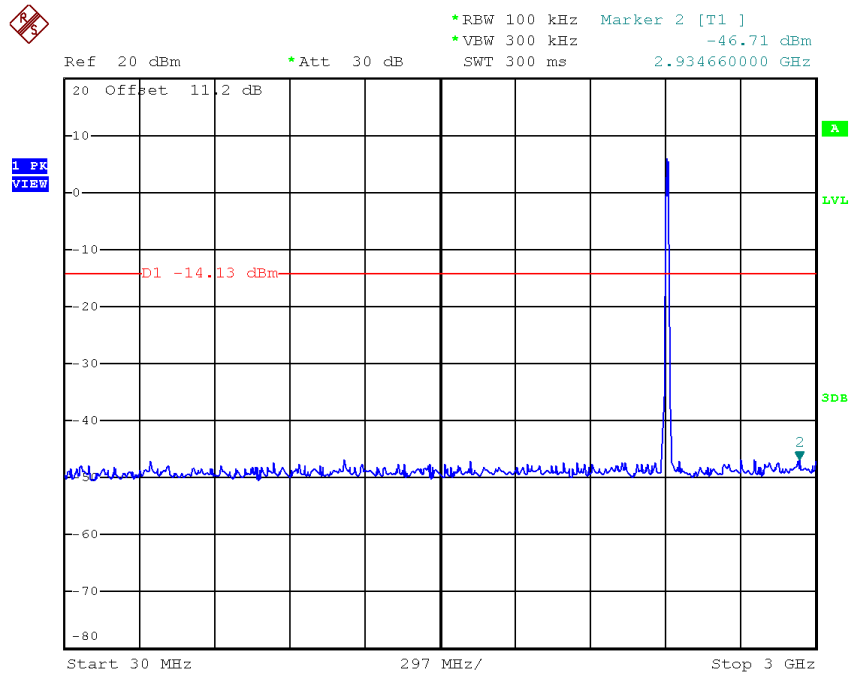
Date: 21.DEC.2016 20:48:37

TX B mode CH11

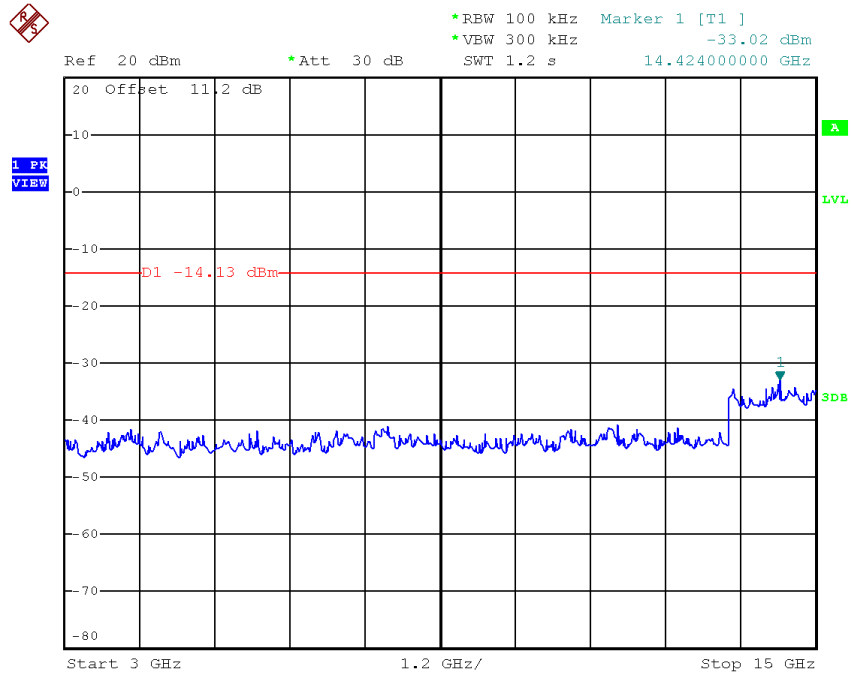


Date: 21.DEC.2016 20:54:12

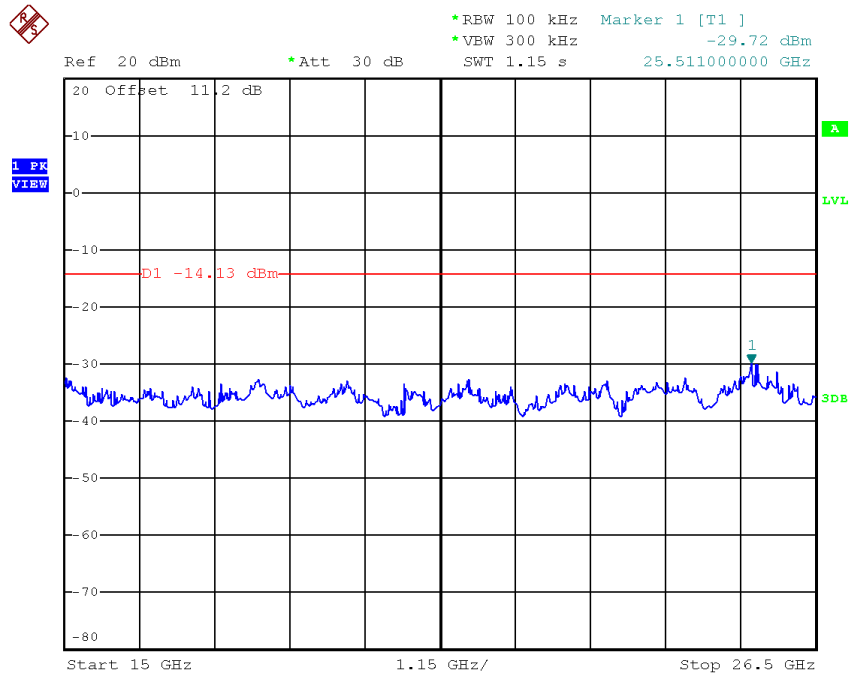
TX B mode CH01 (10 Harmonic of the frequency)



Date: 21.DEC.2016 20:47:59

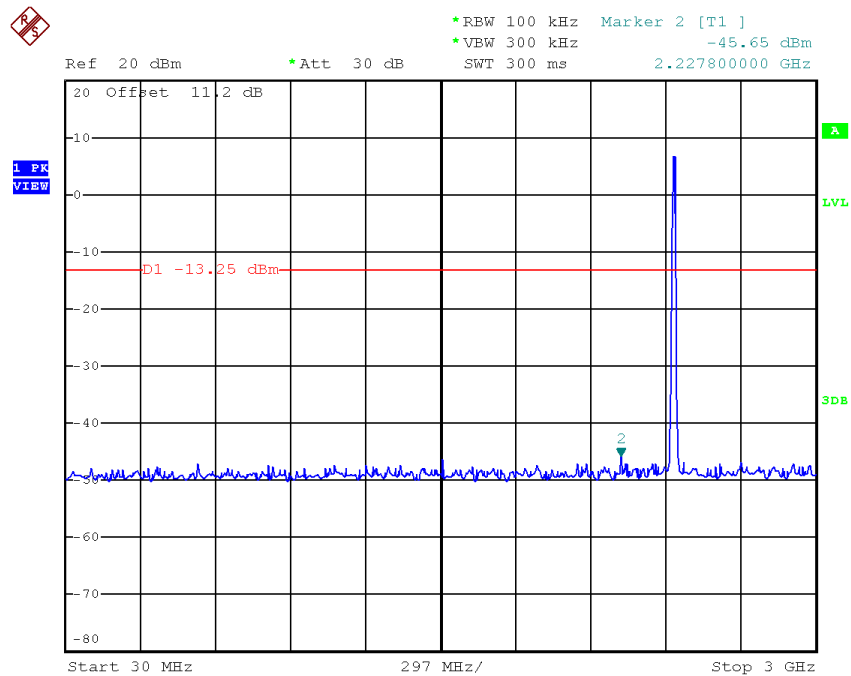


Date: 21.DEC.2016 20:48:06

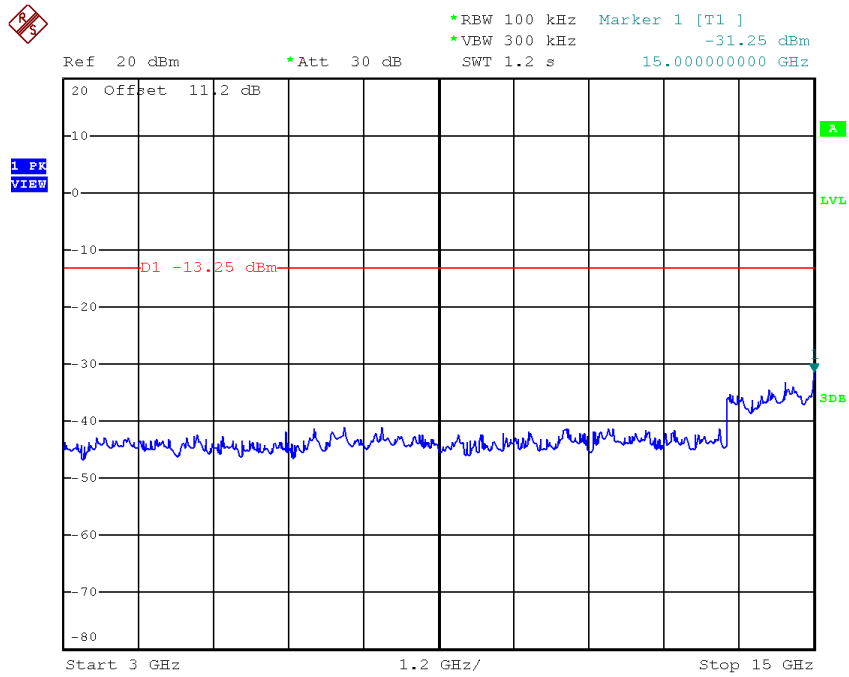


Date: 21.DEC.2016 20:48:13

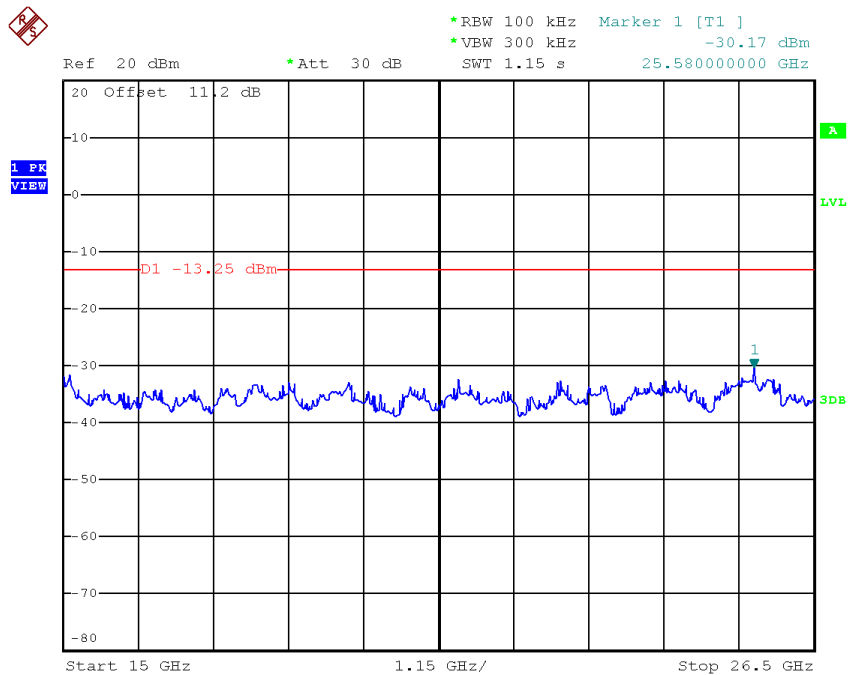
TX B mode CH06 (10 Harmonic of the frequency)



Date: 21.DEC.2016 20:50:05

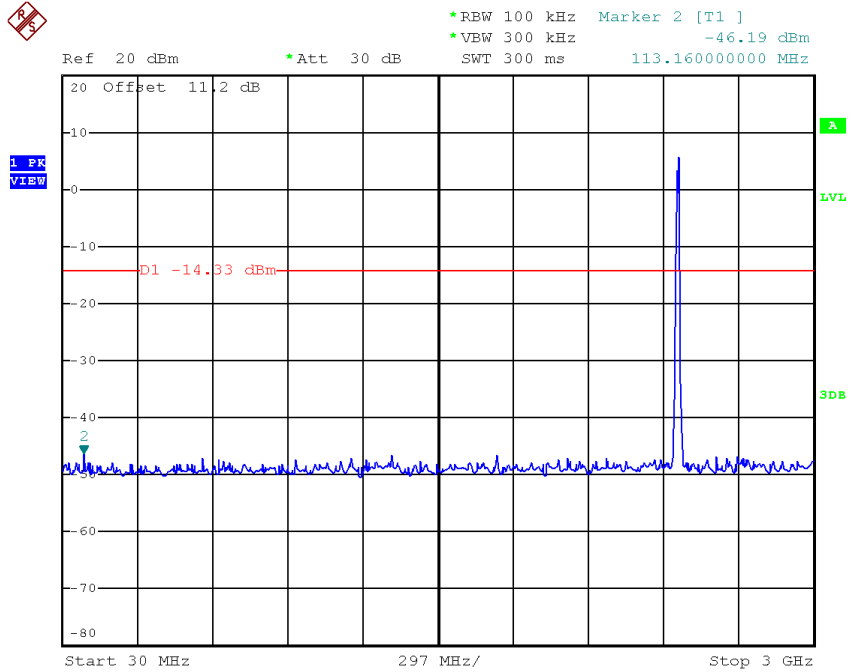


Date: 21.DEC.2016 20:50:12

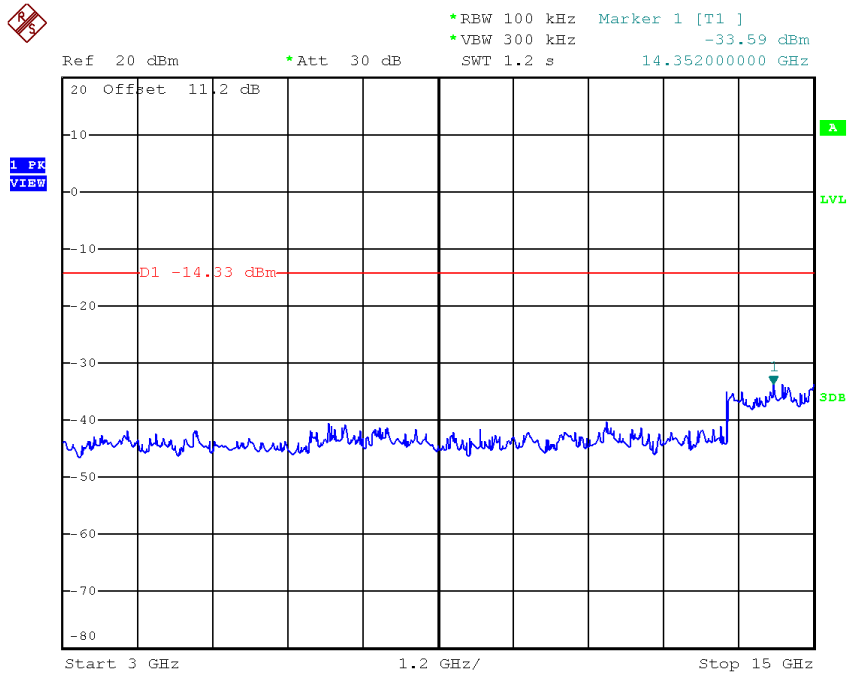


Date: 21.DEC.2016 20:50:19

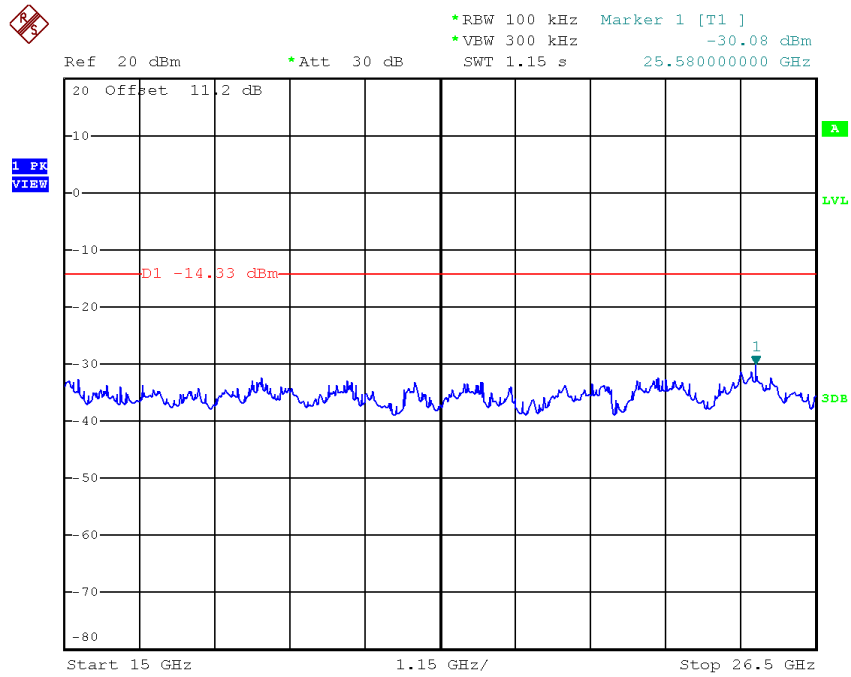
TX B mode CH11 (10 Harmonic of the frequency)



Date: 21.DEC.2016 20:53:51



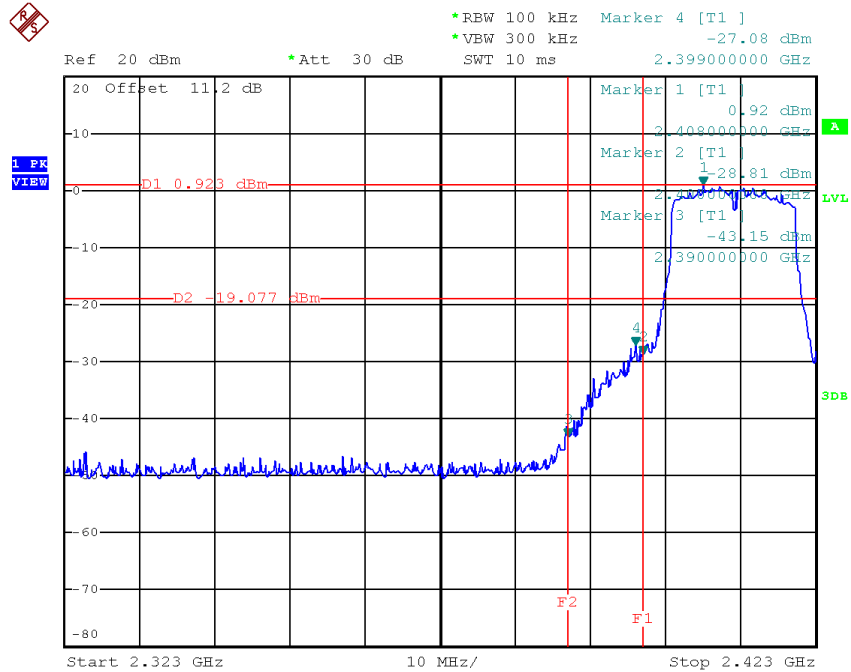
Date: 21.DEC.2016 20:53:58



Date: 21.DEC.2016 20:54:05

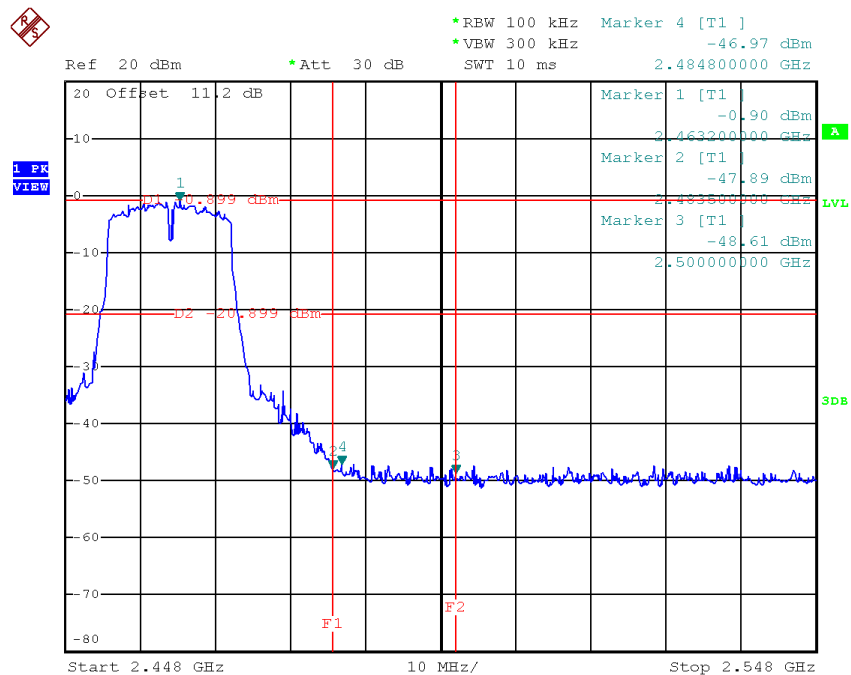
Test Mode : TX G Mode

TX G mode CH01



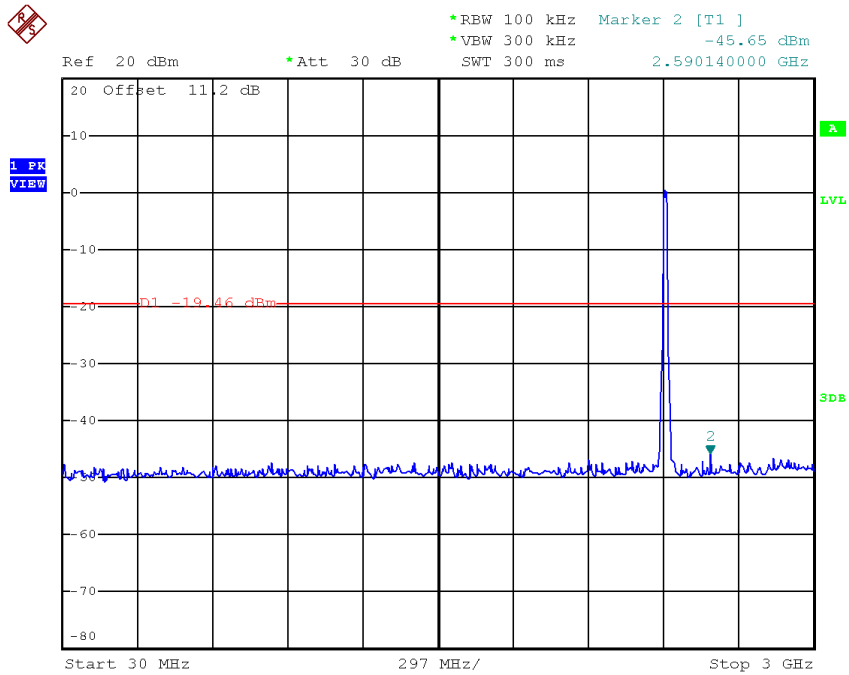
Date: 19.DEC.2016 19:56:26

TX G mode CH11

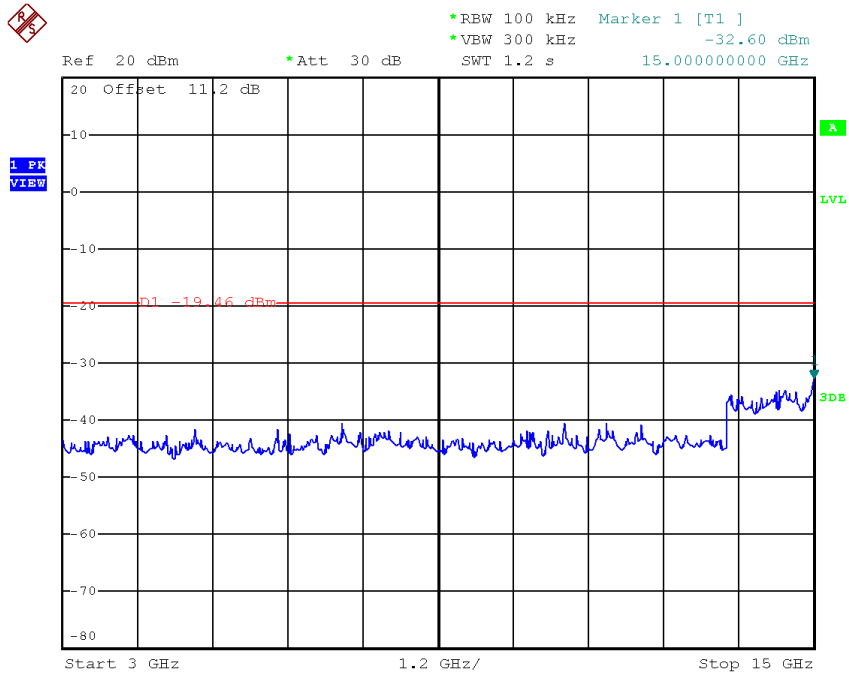


Date: 19.DEC.2016 19:59:28

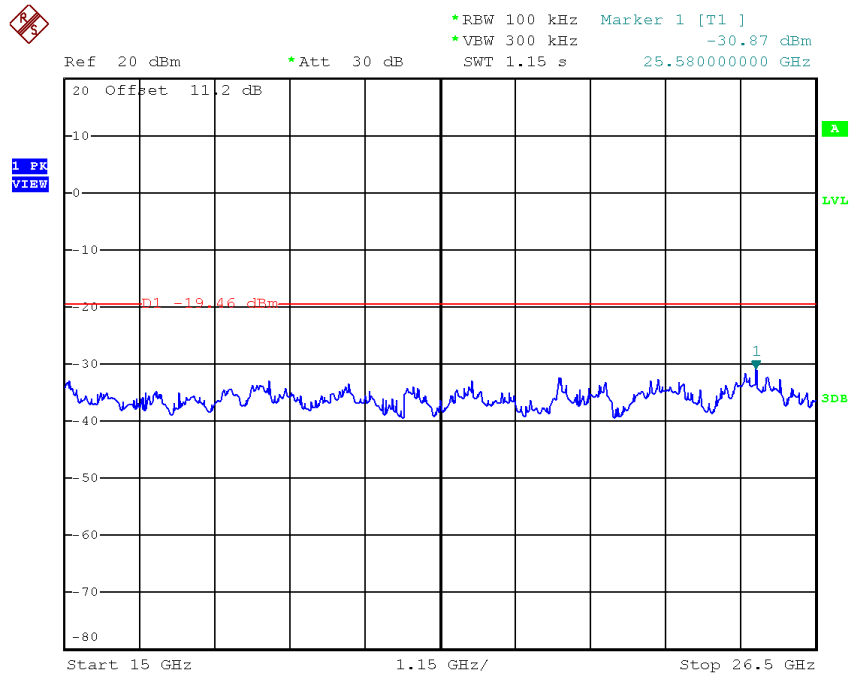
TX G mode CH01 (10 Harmonic of the frequency)



Date: 19.DEC.2016 19:56:05

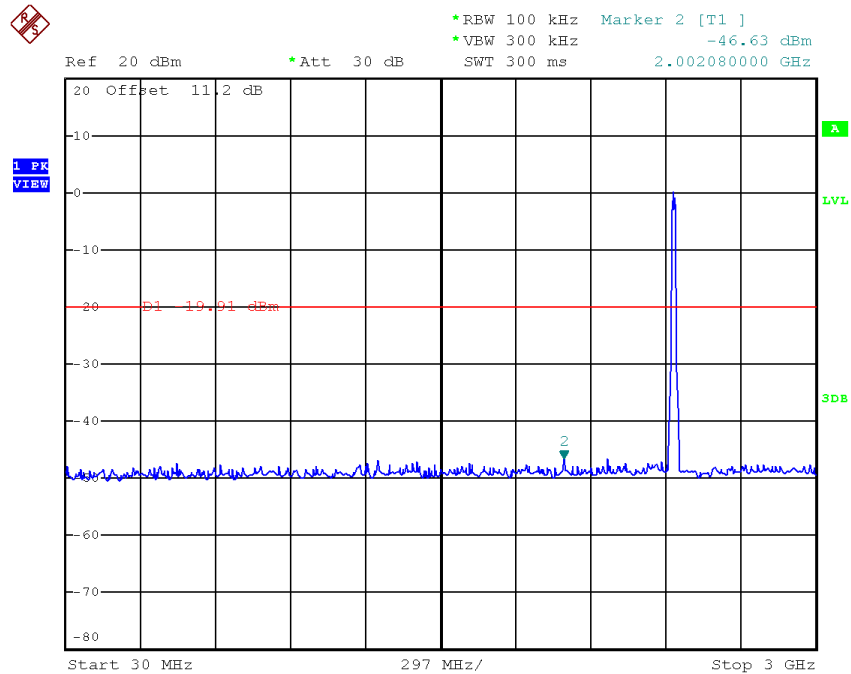


Date: 19.DEC.2016 19:56:12

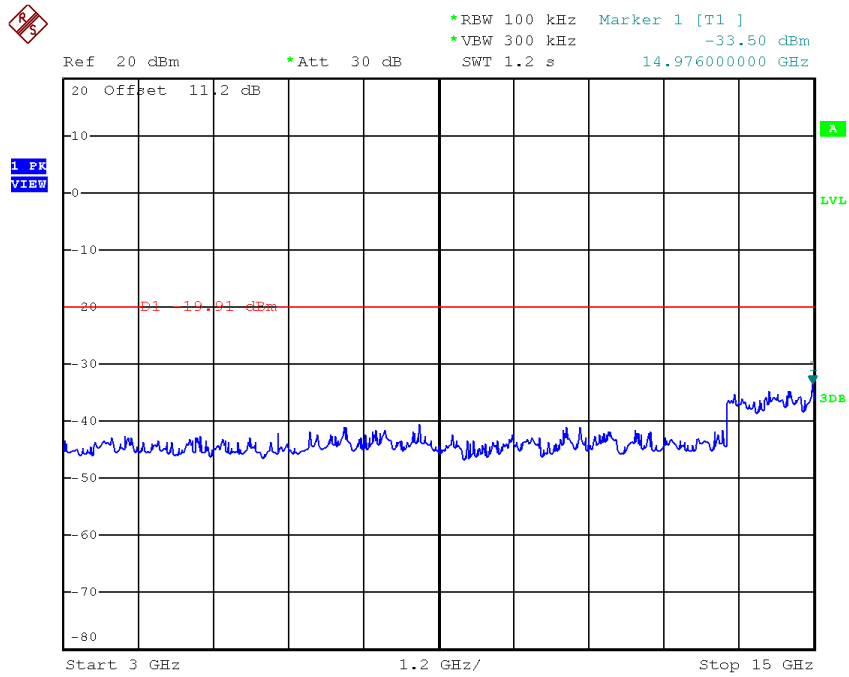


Date: 19.DEC.2016 19:56:19

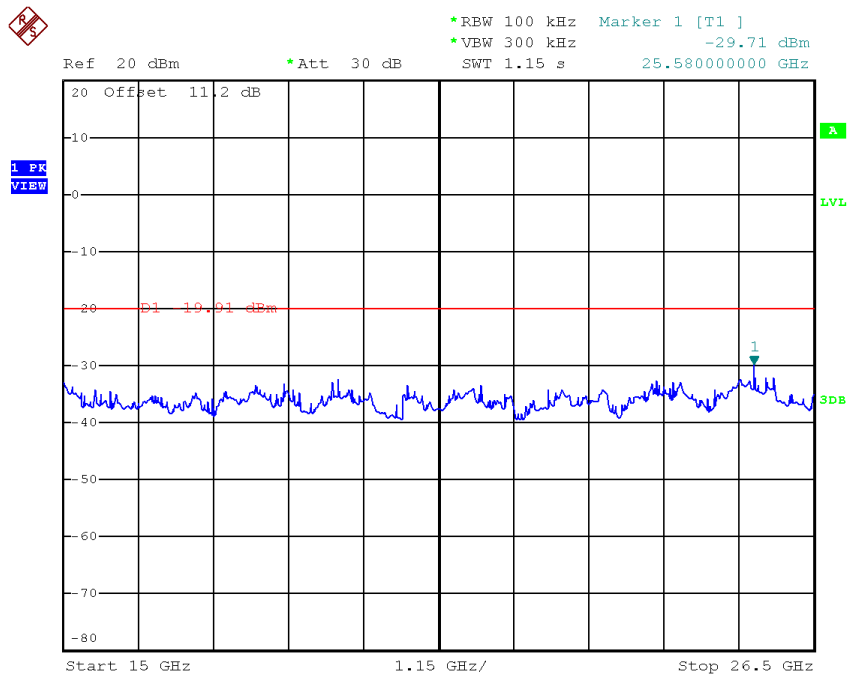
TX G mode CH06 (10 Harmonic of the frequency)



Date: 19.DEC.2016 19:57:47

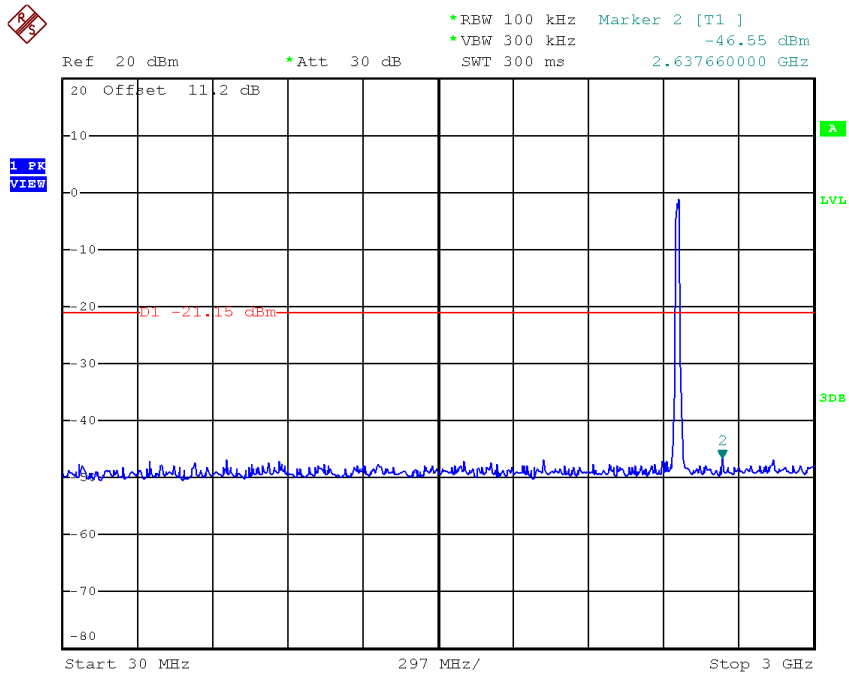


Date: 19.DEC.2016 19:57:54

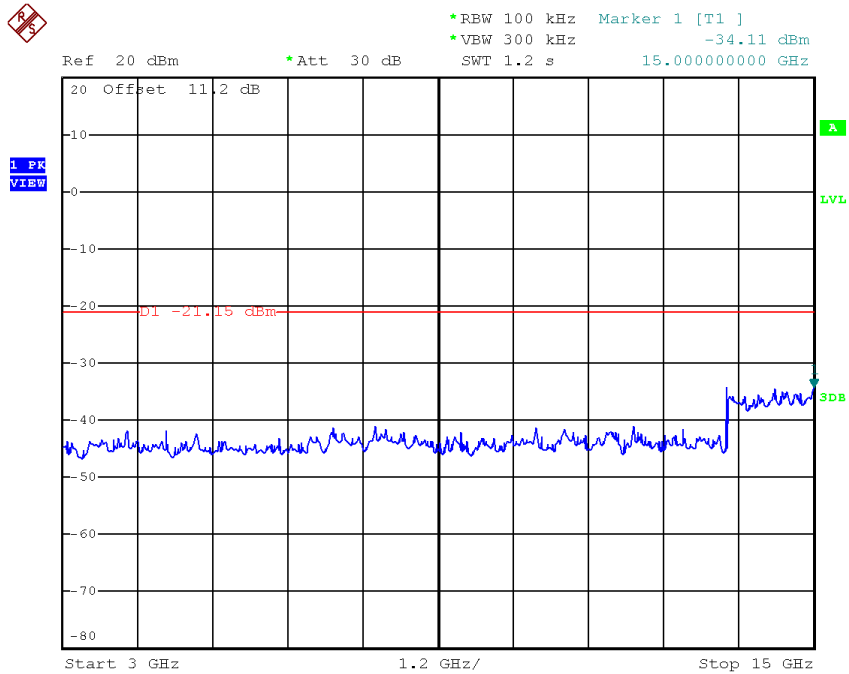


Date: 19.DEC.2016 19:58:01

TX G mode CH11 (10 Harmonic of the frequency)



Date: 19.DEC.2016 19:59:07



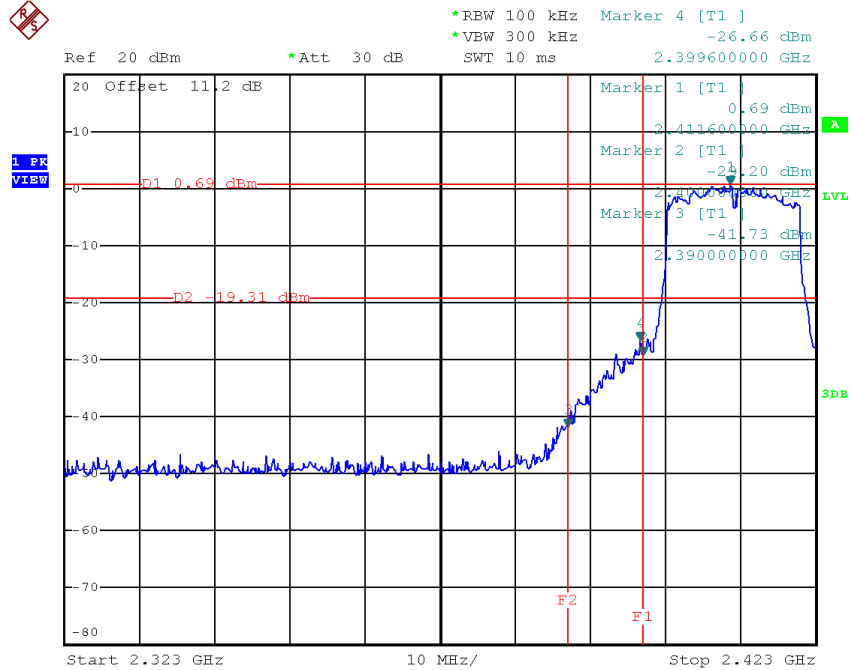
Date: 19.DEC.2016 19:59:14



Date: 19.DEC.2016 19:59:21

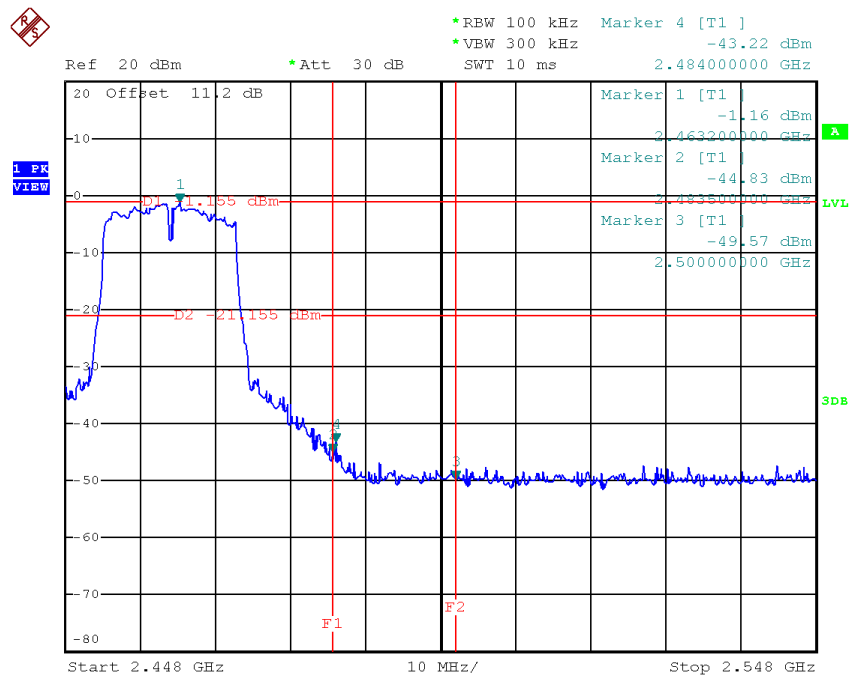
Test Mode : TX N-20M Mode

TX HT20 mode CH01



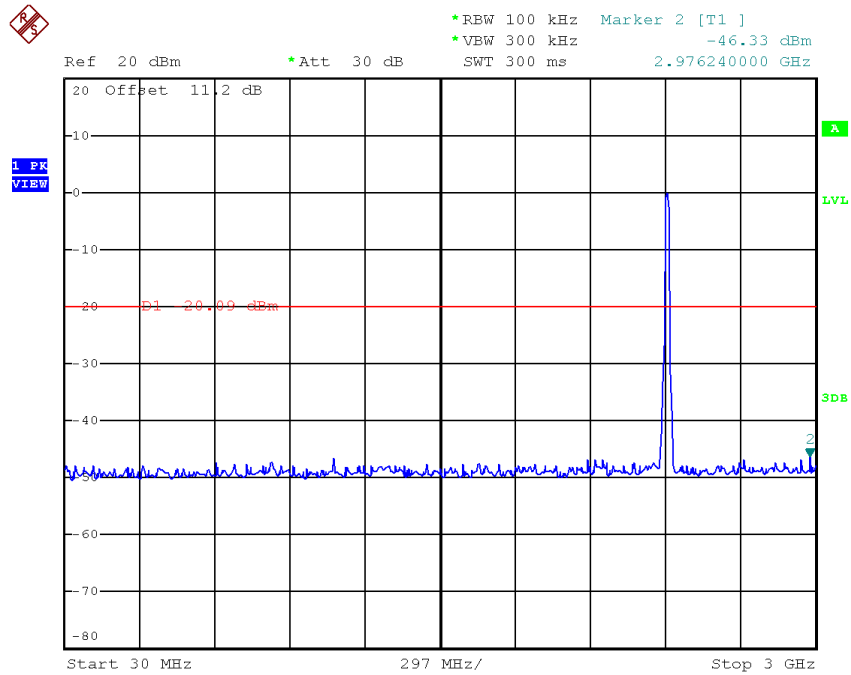
Date: 19.DEC.2016 20:05:12

TX HT20 mode CH11

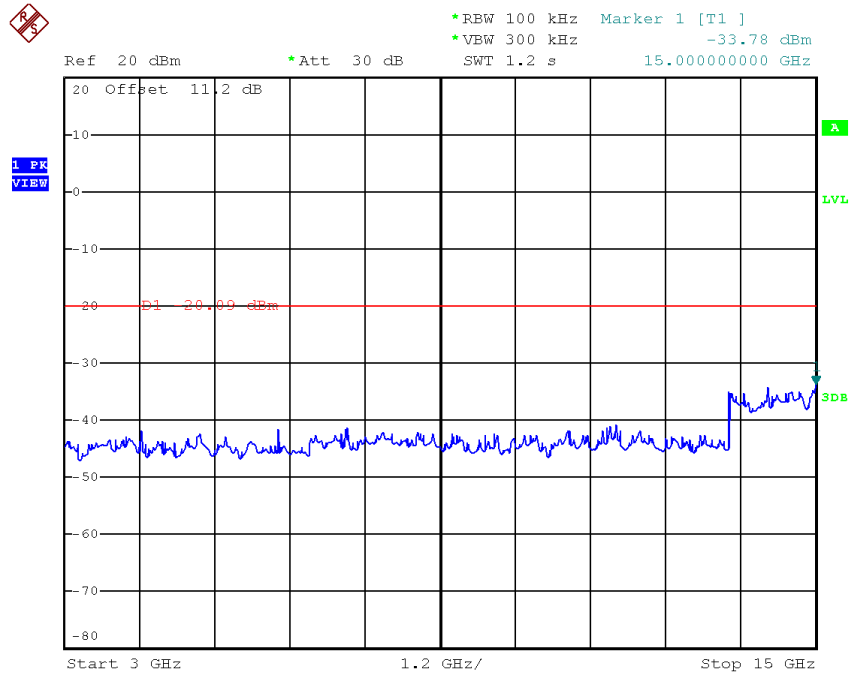


Date: 19.DEC.2016 20:20:53

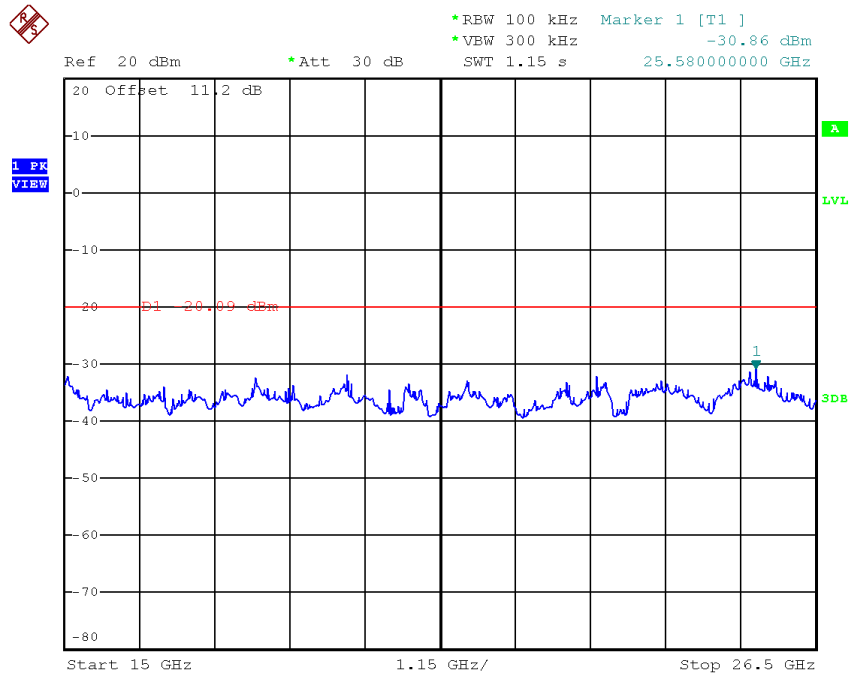
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 19.DEC.2016 20:04:51

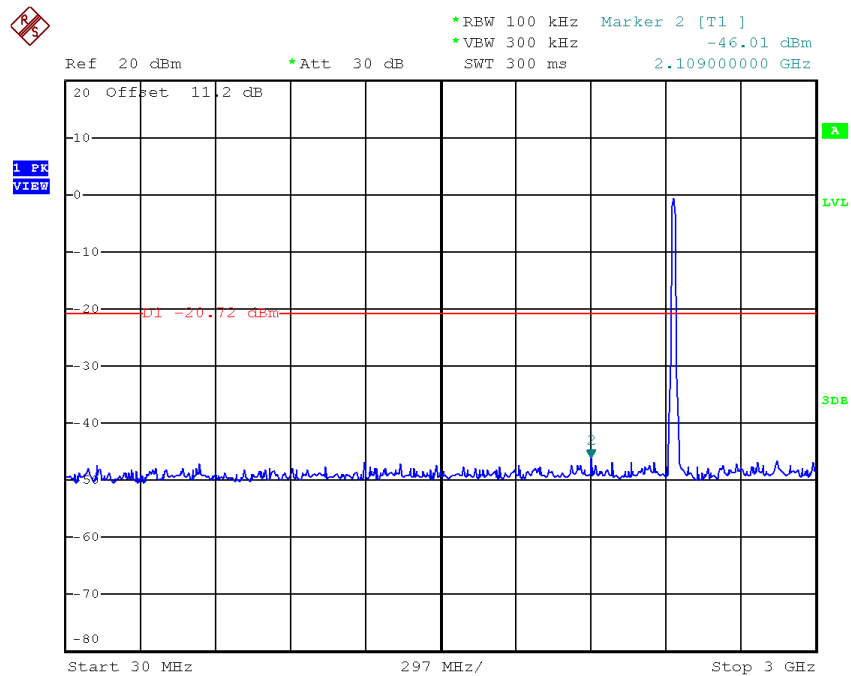


Date: 19.DEC.2016 20:04:58

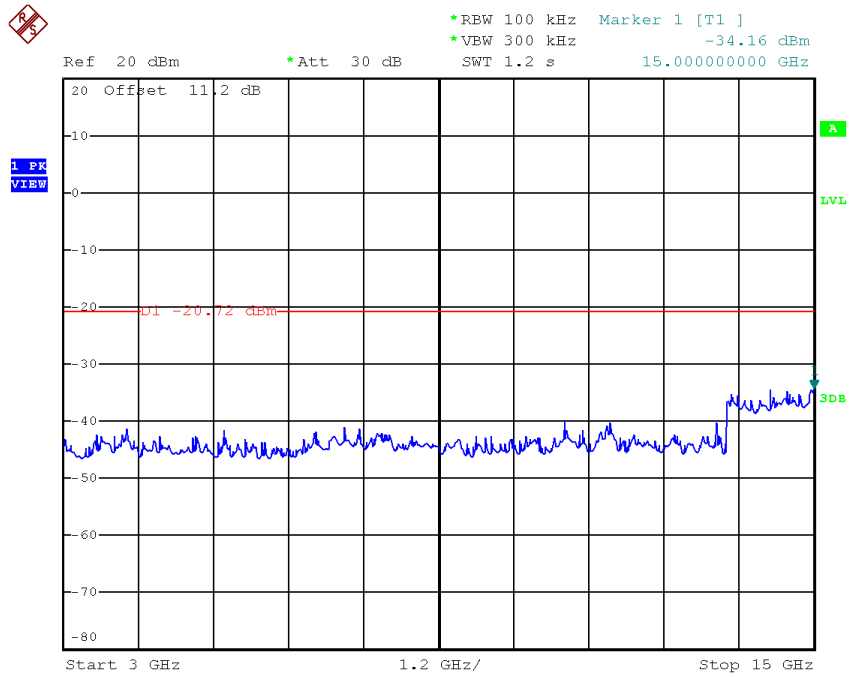


Date: 19.DEC.2016 20:05:05

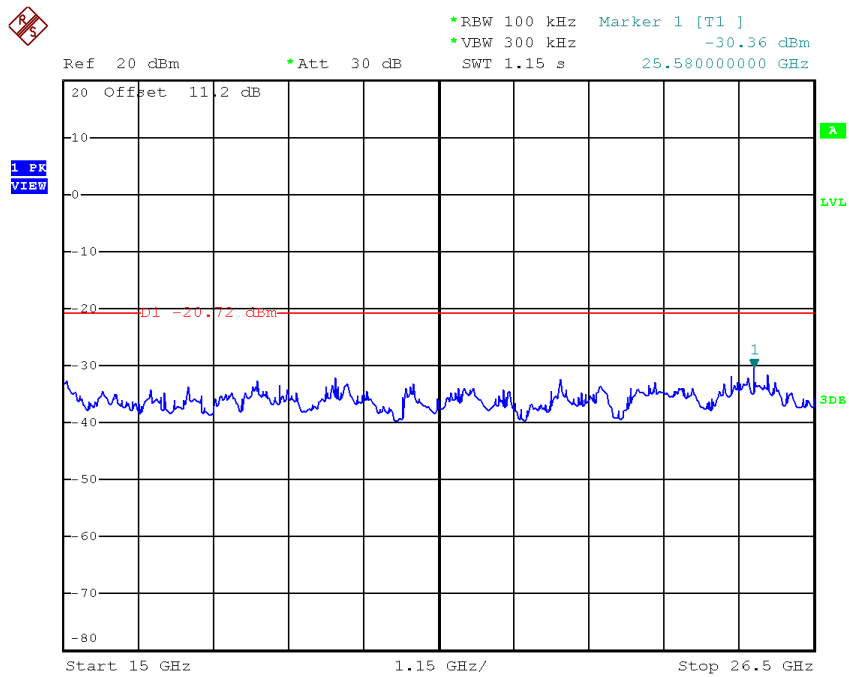
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 19.DEC.2016 20:06:06

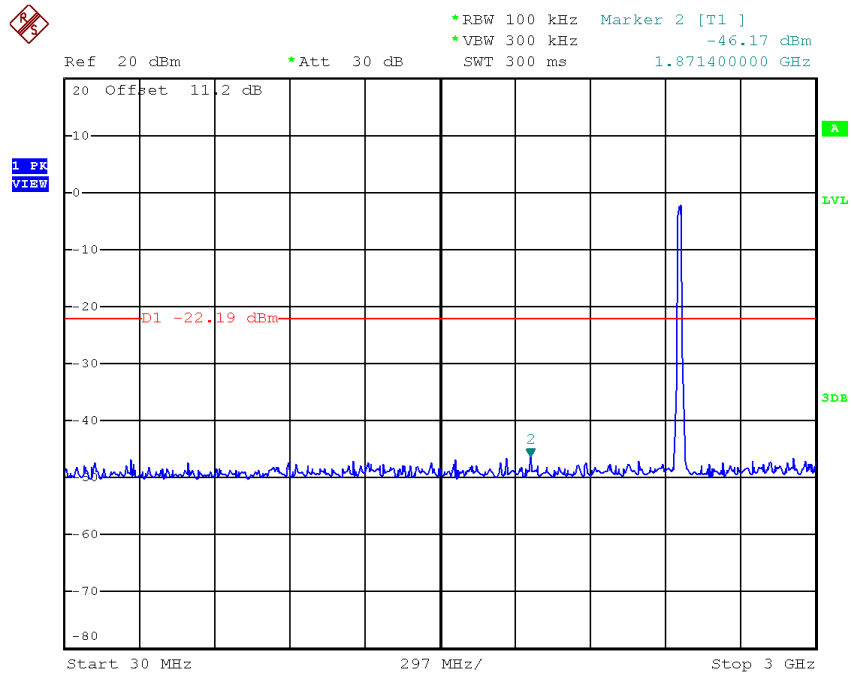


Date: 19.DEC.2016 20:06:13

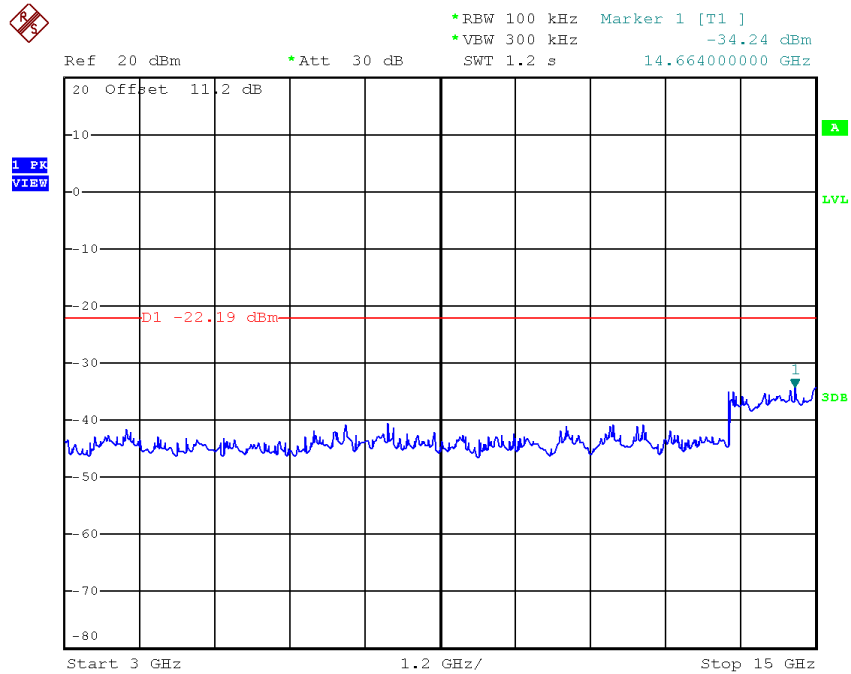


Date: 19.DEC.2016 20:06:20

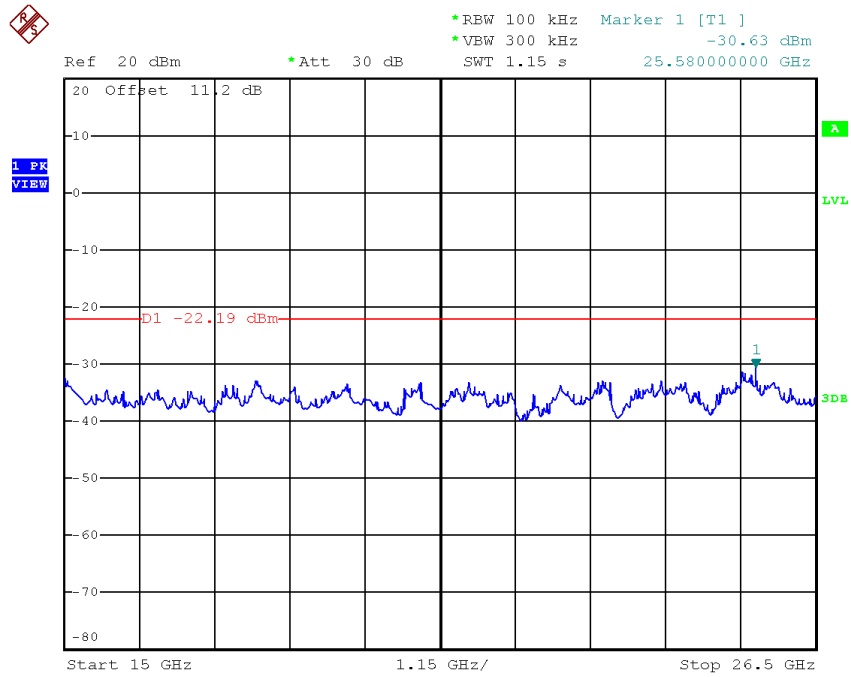
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 19.DEC.2016 20:20:32



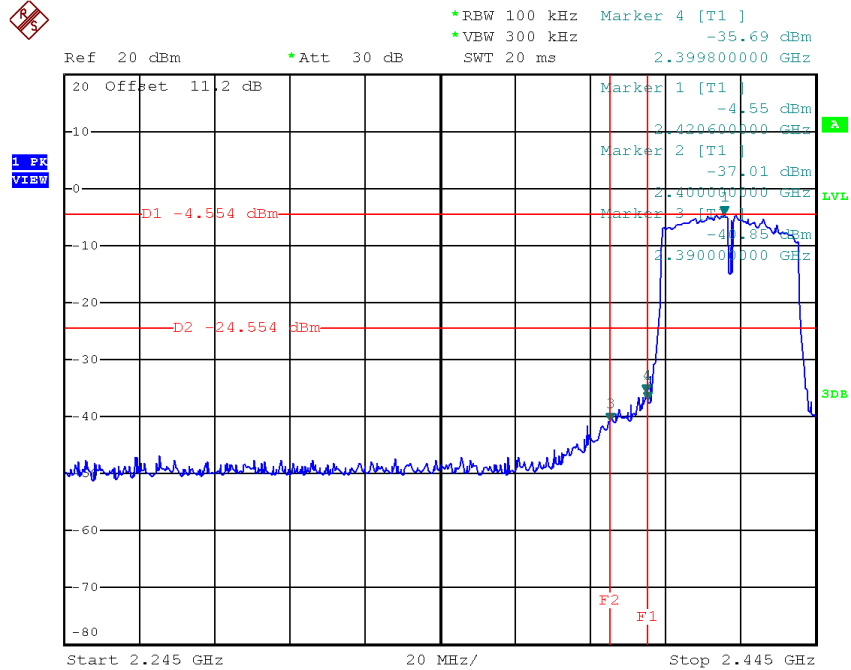
Date: 19.DEC.2016 20:20:39



Date: 19.DEC.2016 20:20:46

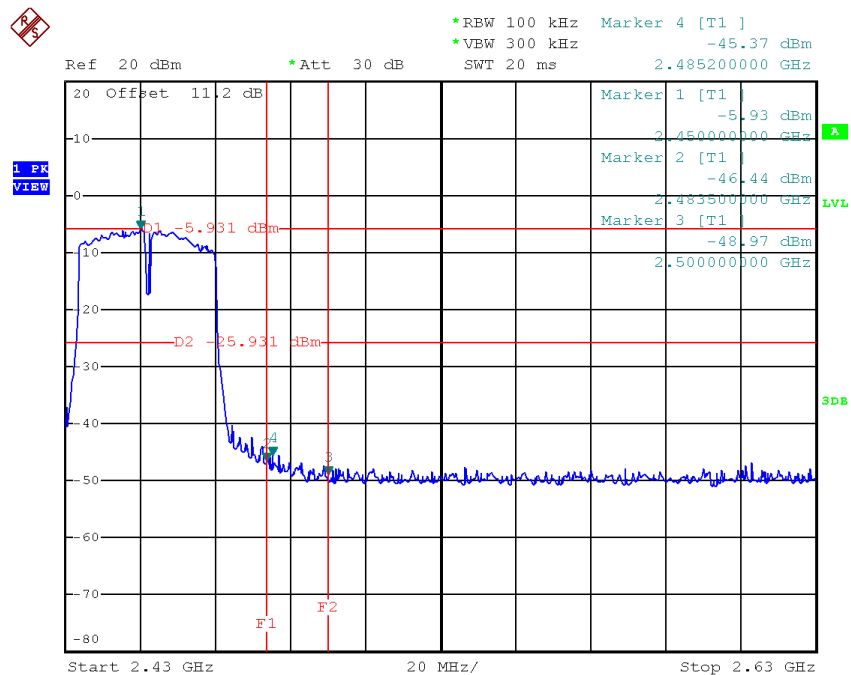
Test Mode : TX N-40M Mode

TX HT40 mode CH03



Date: 19.DEC.2016 20:22:43

TX HT40 mode CH09

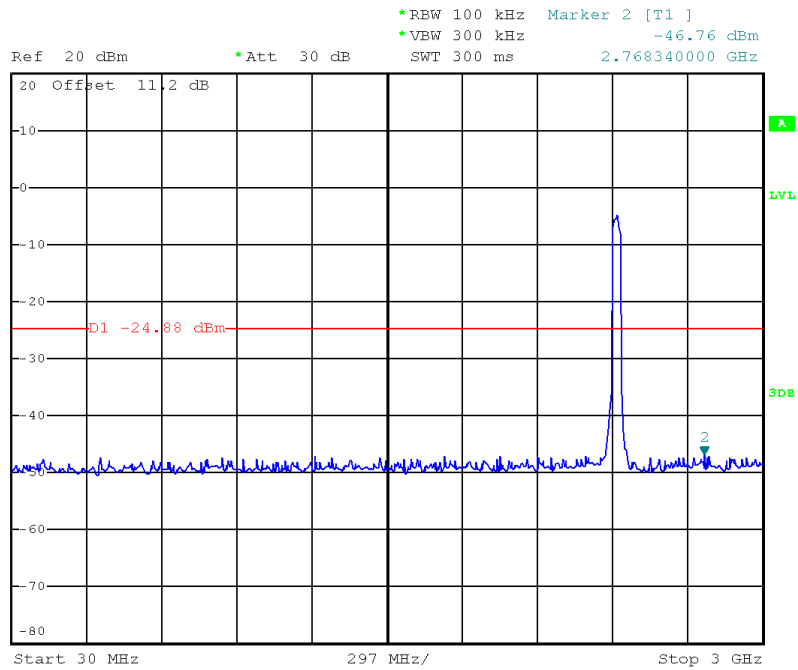


Date: 19.DEC.2016 20:25:36

TX HT40 mode CH03 (10 Harmonic of the frequency)



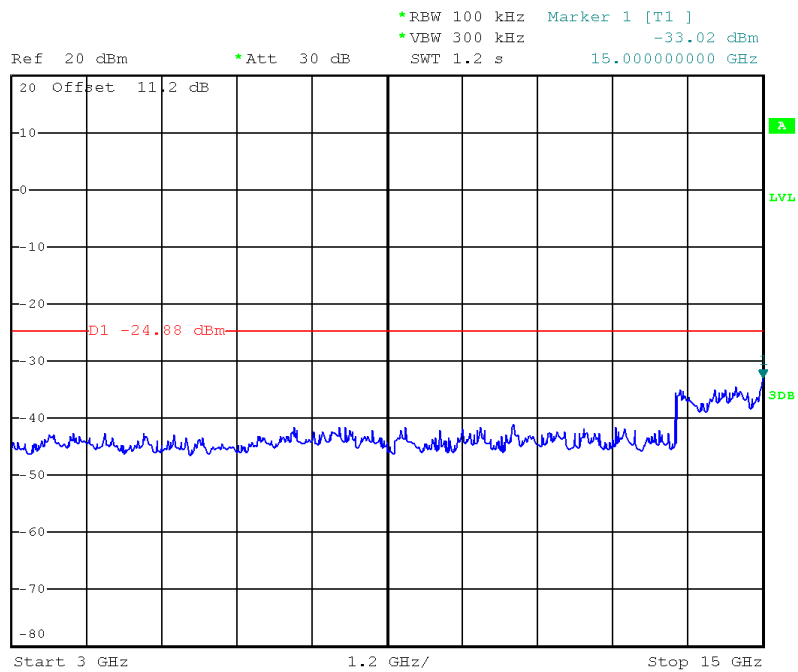
PEAK
VIEW



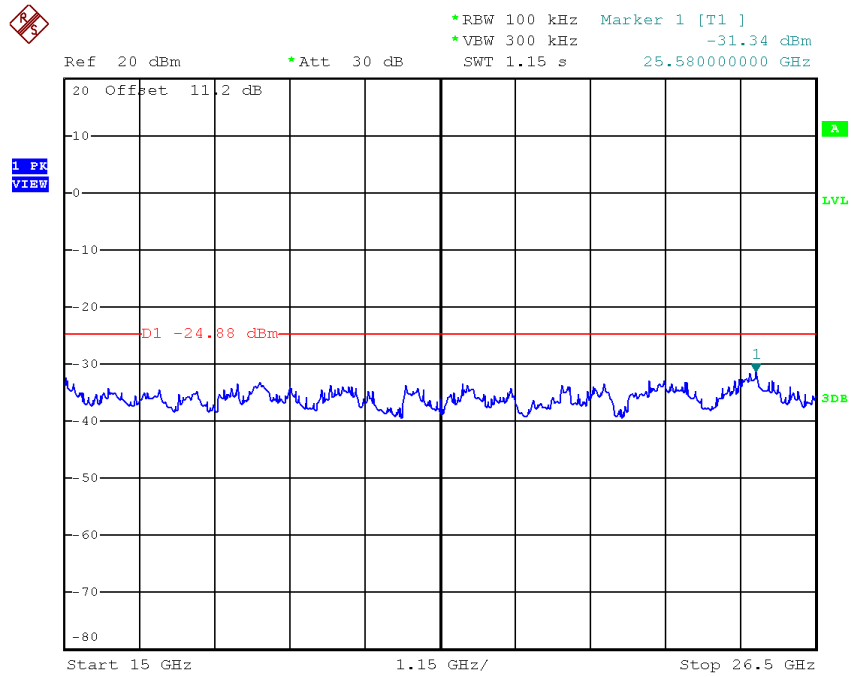
Date: 19.DEC.2016 20:22:05



PEAK
VIEW

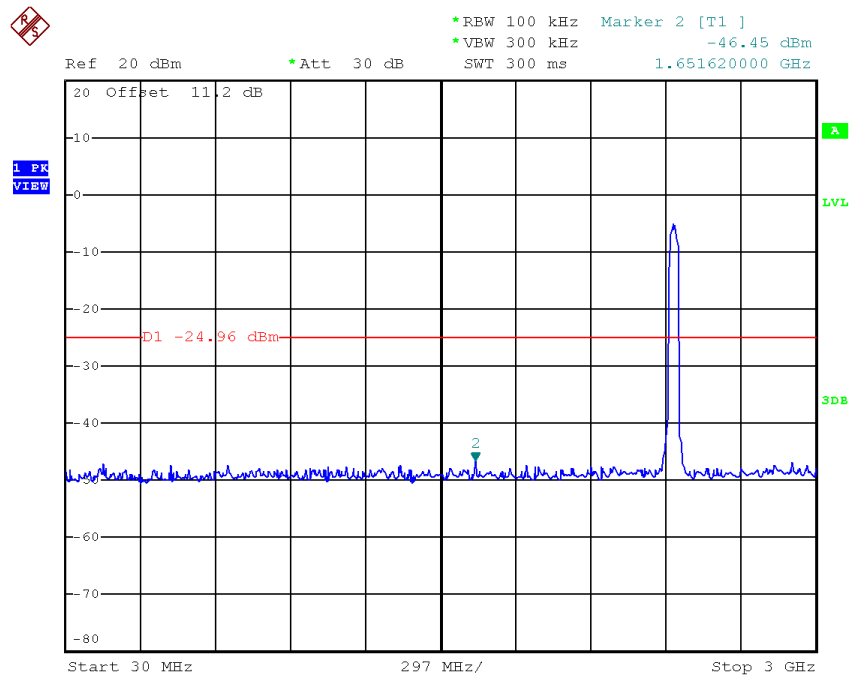


Date: 19.DEC.2016 20:22:12

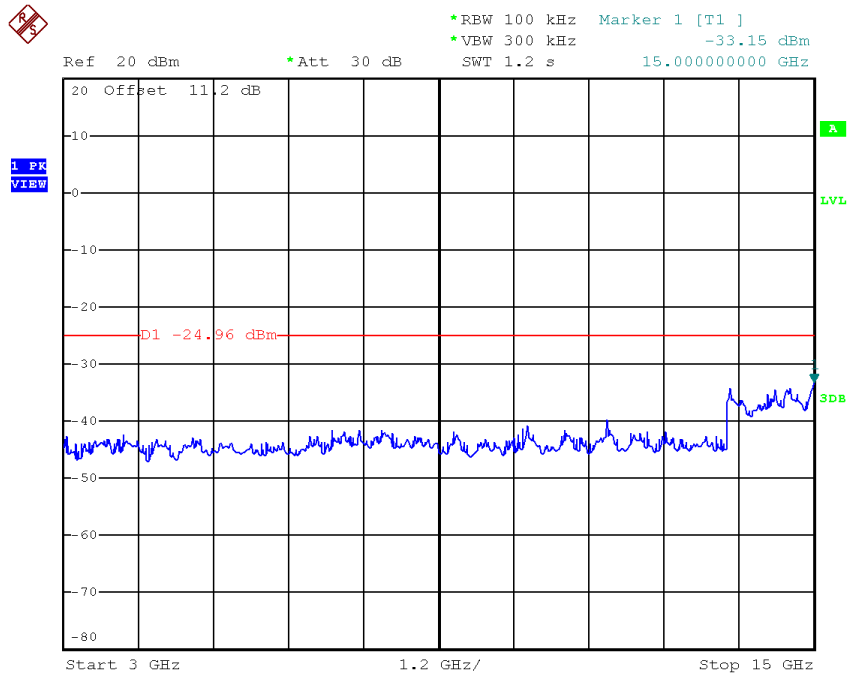


Date: 19.DEC.2016 20:22:19

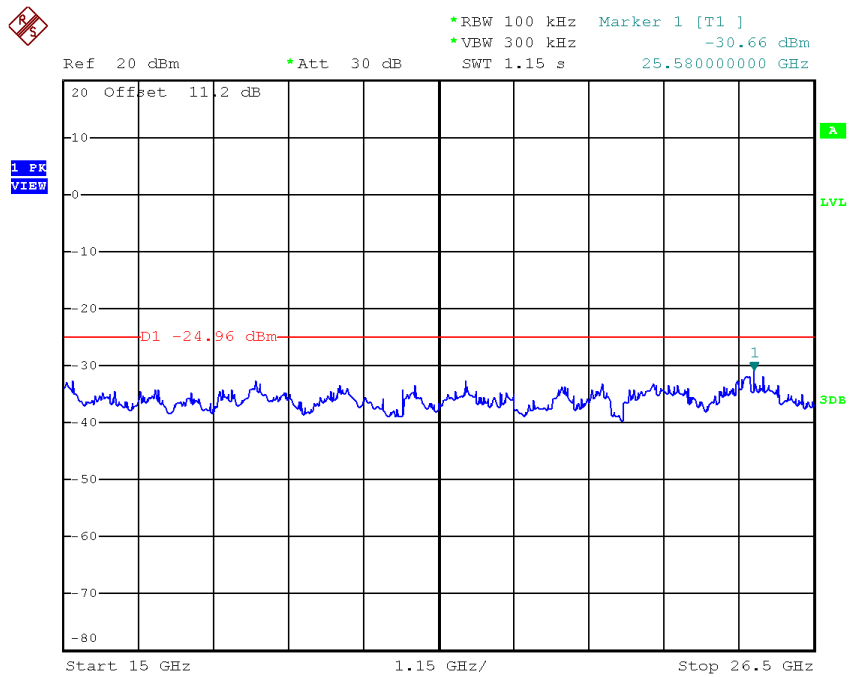
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 19.DEC.2016 20:23:48

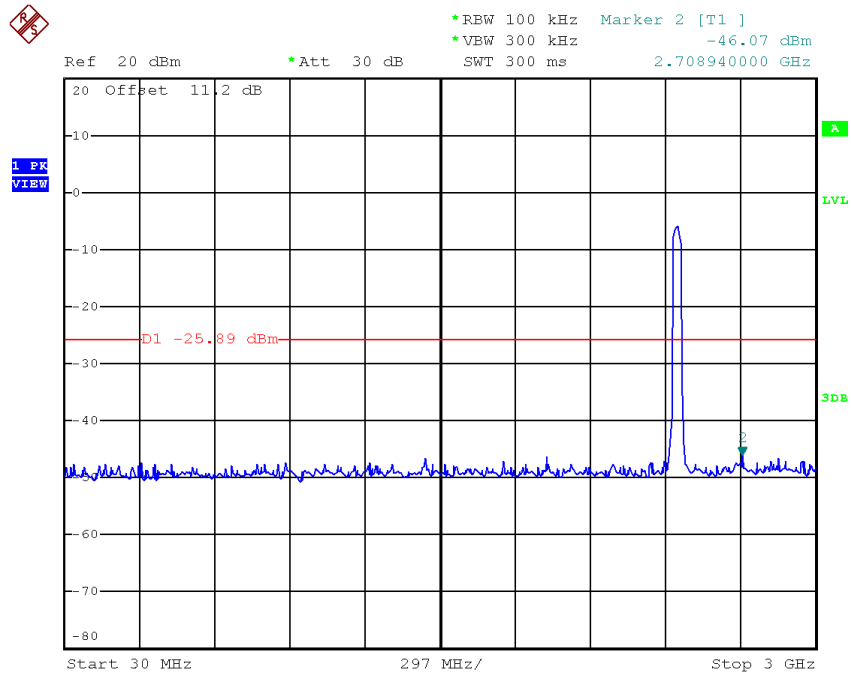


Date: 19.DEC.2016 20:23:55

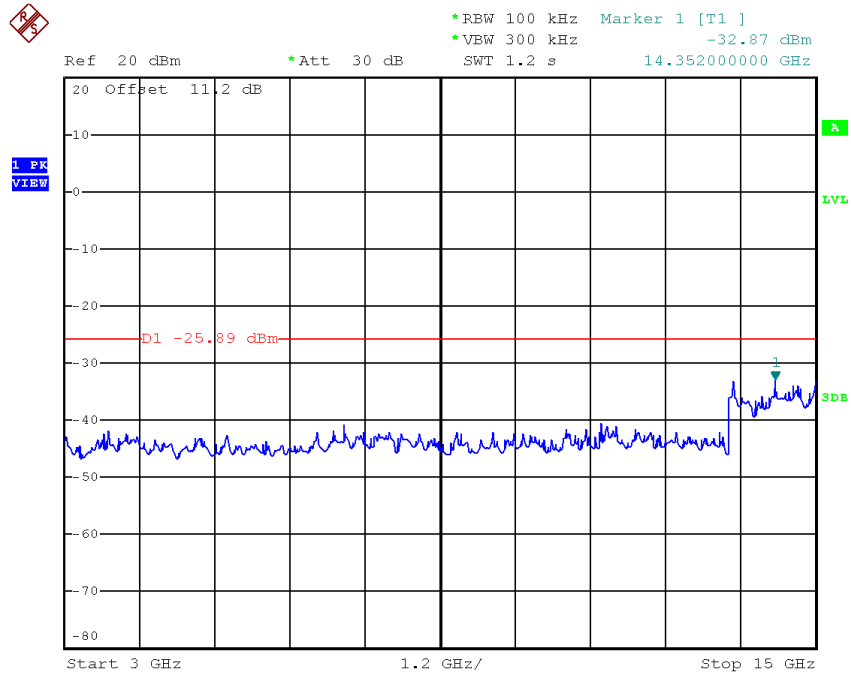


Date: 19.DEC.2016 20:24:02

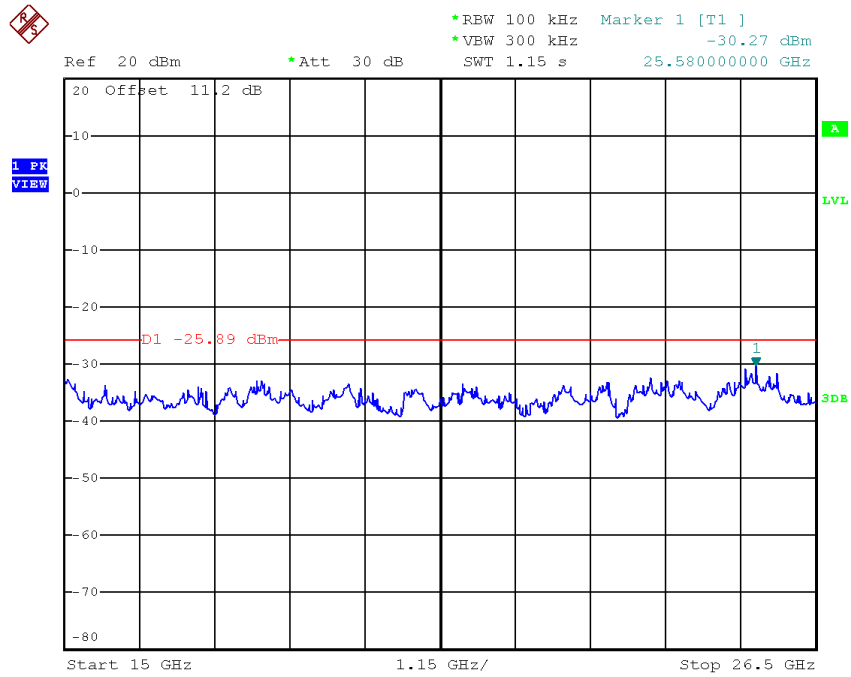
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 19.DEC.2016 20:24:59



Date: 19.DEC.2016 20:25:06



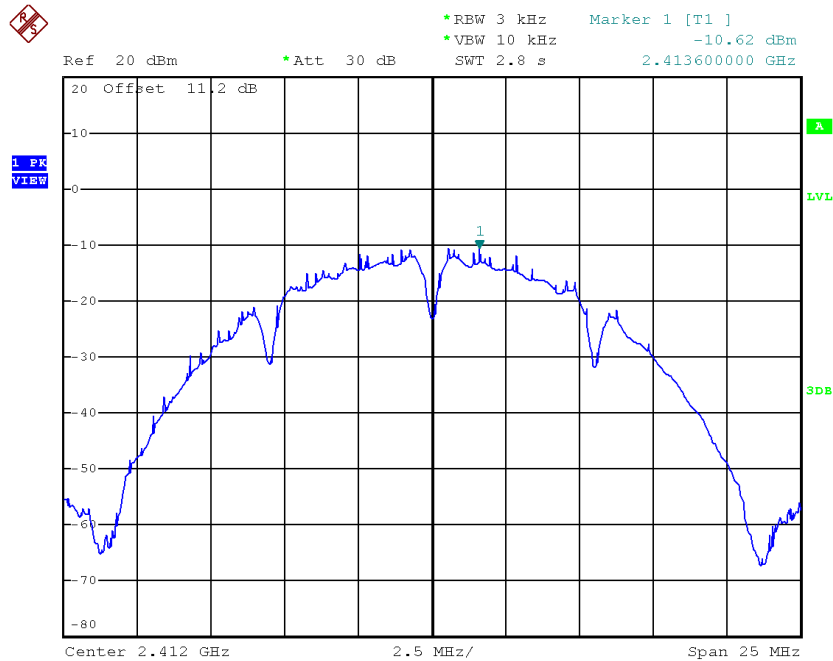
Date: 19.DEC.2016 20:25:13

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

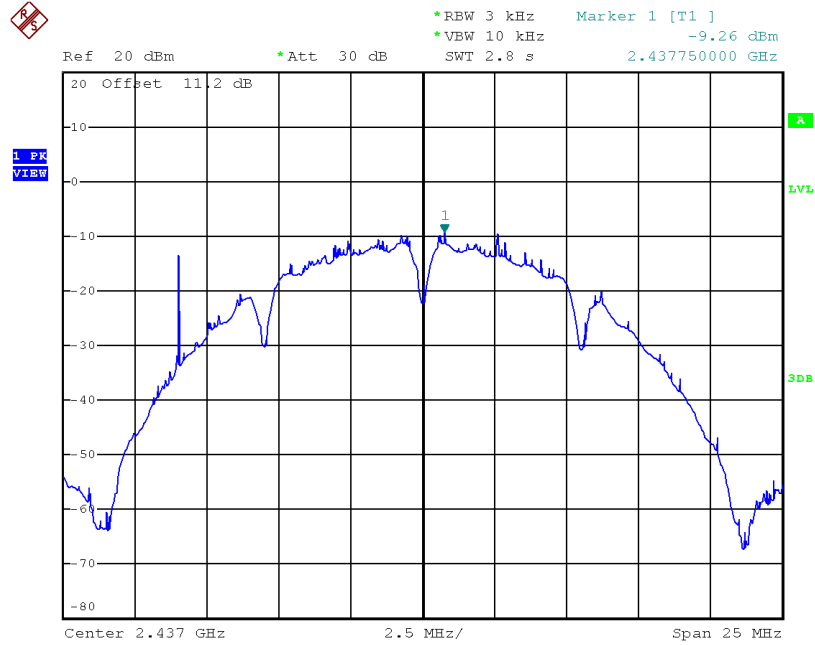
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.62	0.0867	8.00	Complies
2437	-9.26	0.1186	8.00	Complies
2462	-10.45	0.0902	8.00	Complies

TX CH01



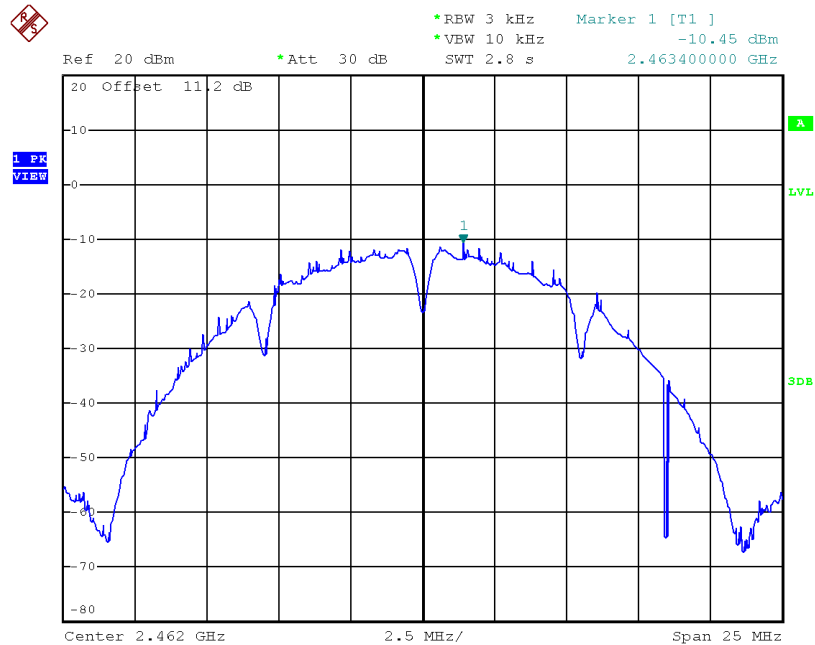
Date: 21.DEC.2016 20:48:46

TX CH06



Date: 21.DEC.2016 20:50:28

TX CH11

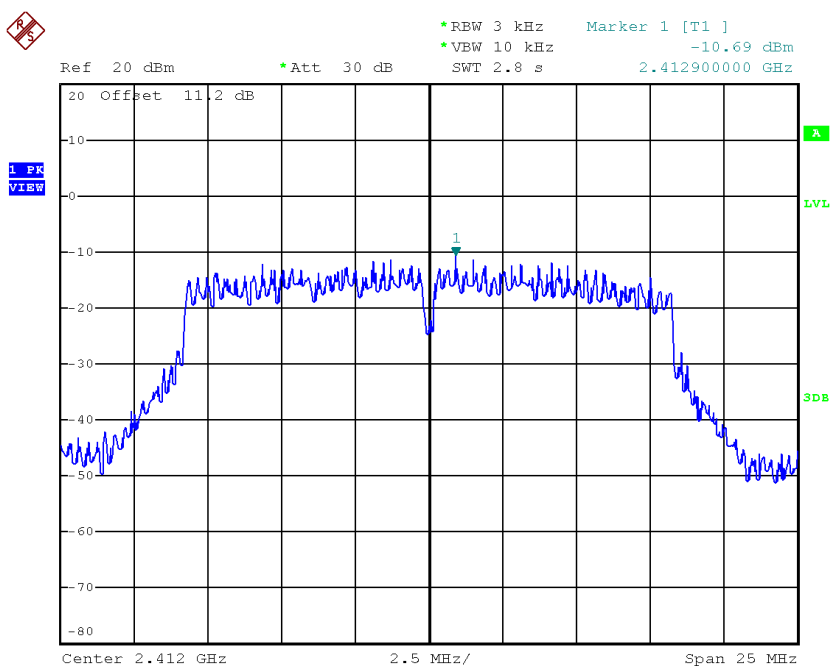


Date: 21.DEC.2016 20:56:02

Test Mode :TX G Mode_CH01/06/11

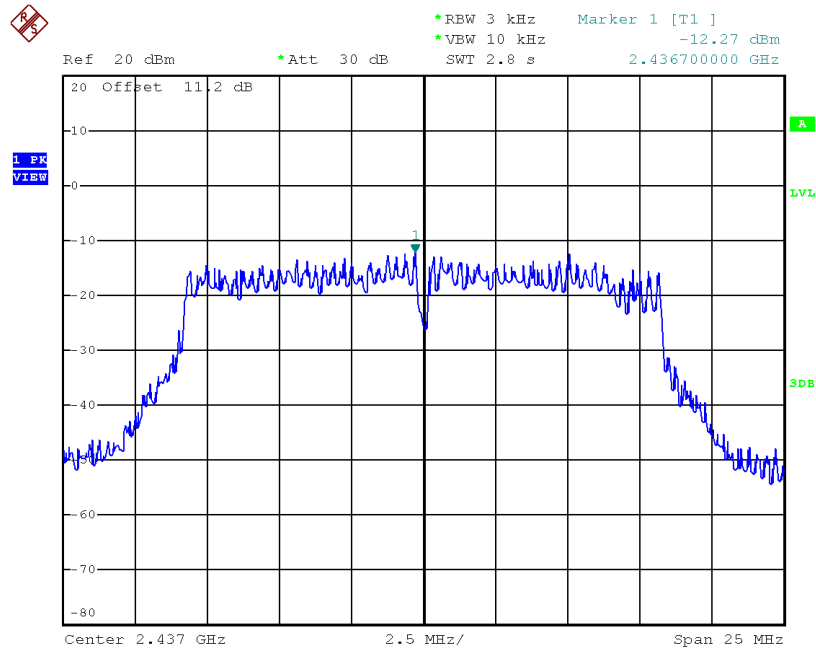
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.69	0.0853	8.00	Complies
2437	-12.27	0.0593	8.00	Complies
2462	-12.81	0.0524	8.00	Complies

TX CH01



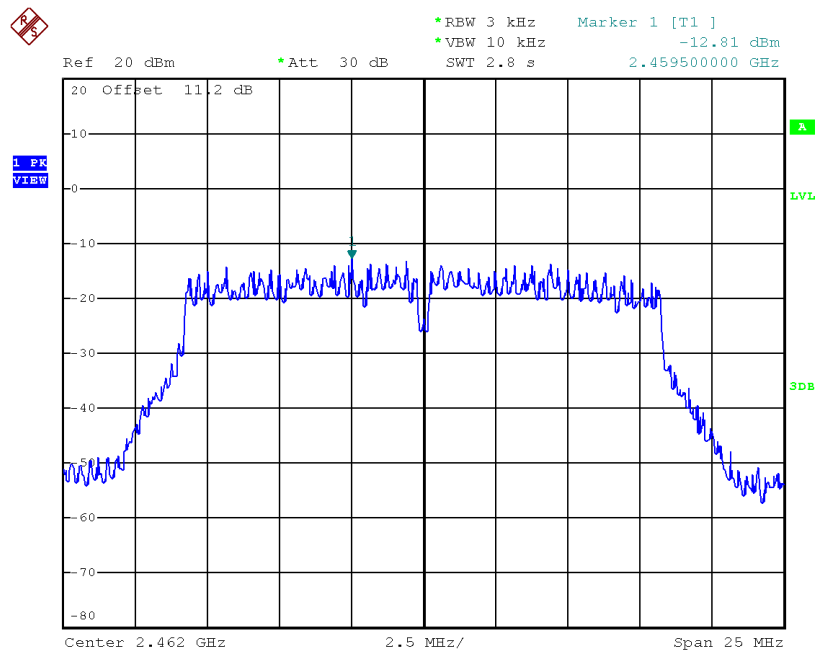
Date: 19.DEC.2016 19:56:34

TX CH06



Date: 19.DEC.2016 19:58:09

TX CH11

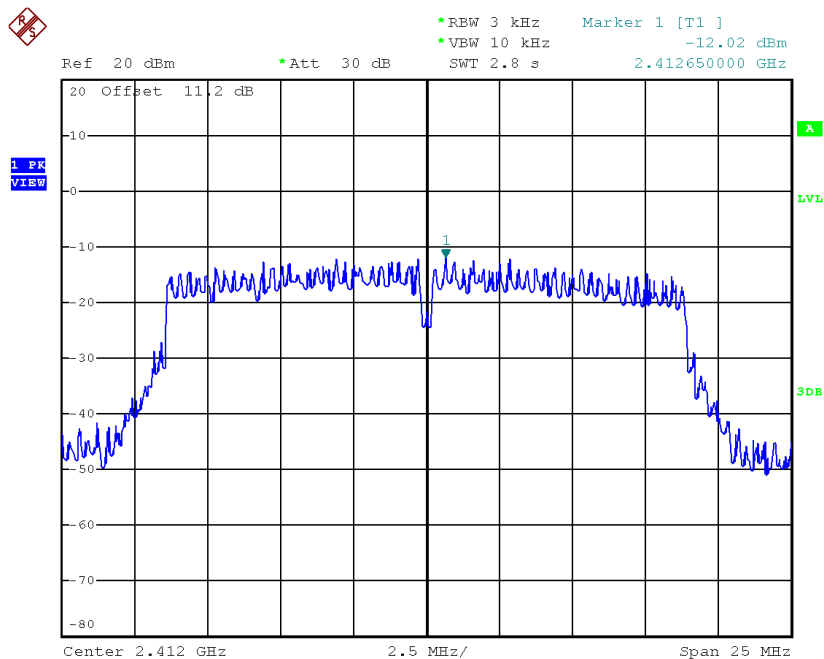


Date: 19.DEC.2016 19:59:37

Test Mode : TX N-20M Mode_CH01/06/11

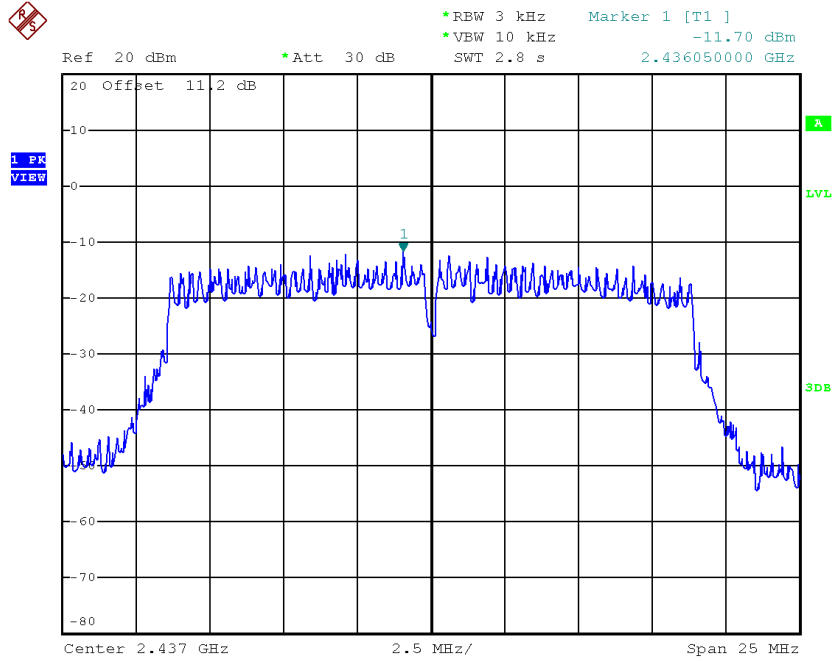
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.02	0.0628	8.00	Complies
2437	-11.70	0.0676	8.00	Complies
2462	-13.31	0.0467	8.00	Complies

TX CH01



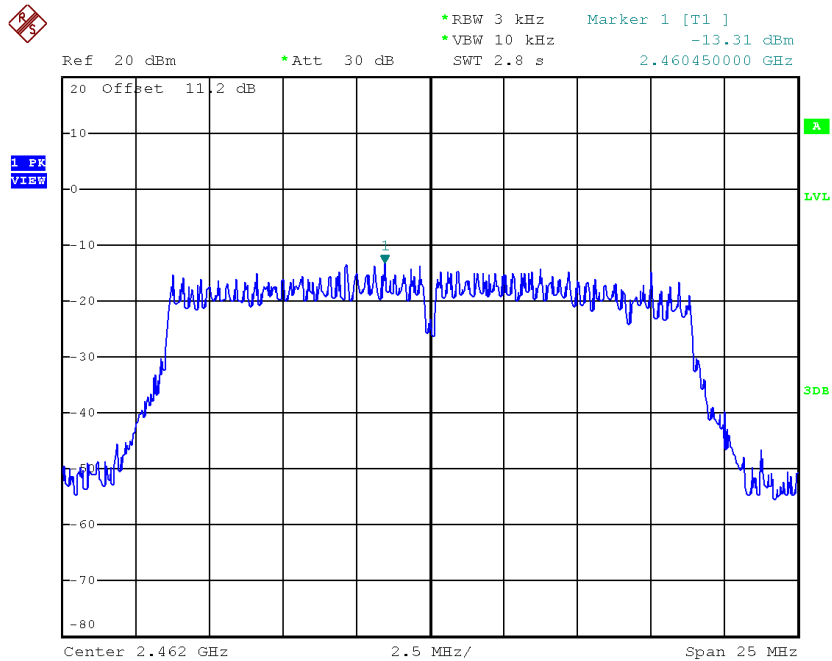
Date: 19.DEC.2016 20:05:20

TX CH06



Date: 19.DEC.2016 20:06:29

TX CH11

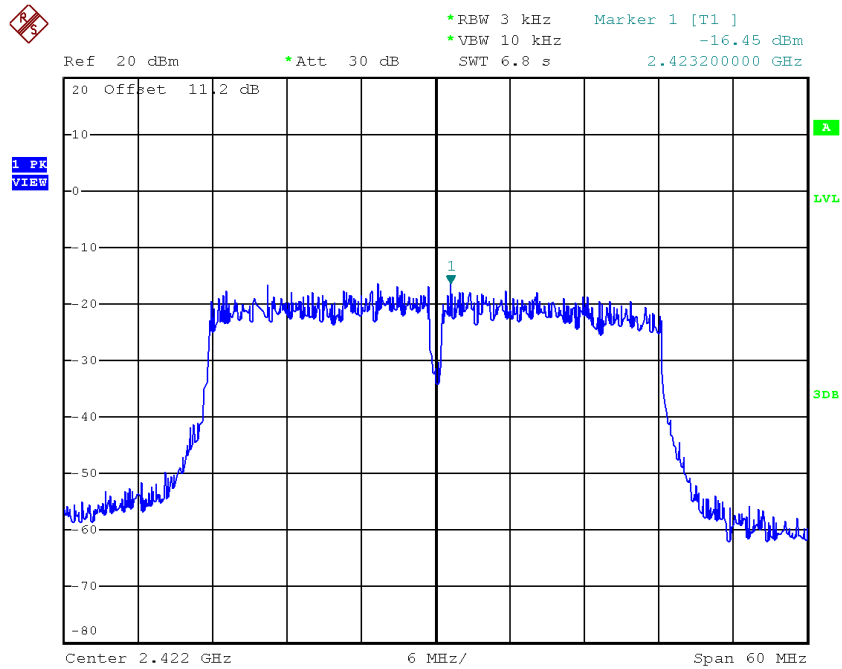


Date: 19.DEC.2016 20:21:02

Test Mode : TX N-40M Mode_CH03/06/09

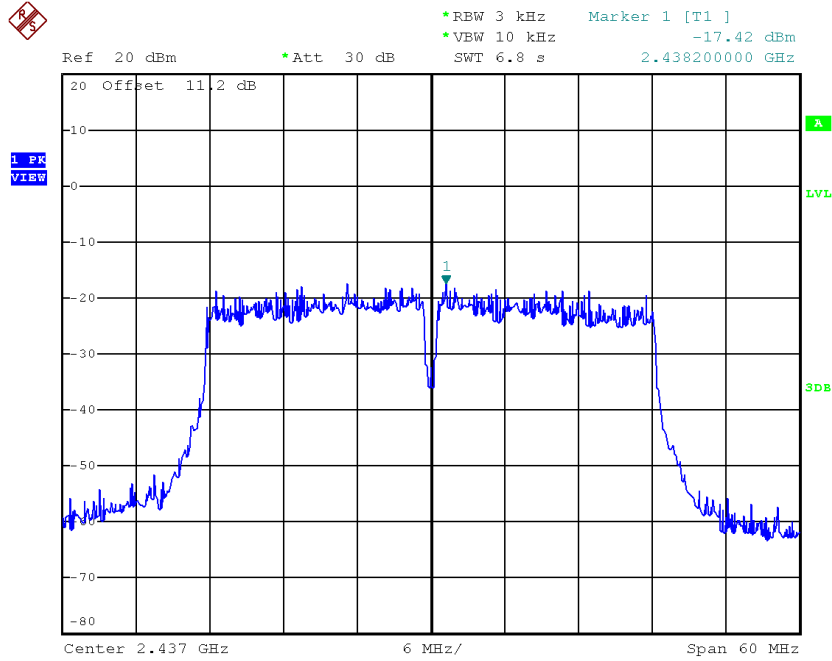
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.45	0.0226	8.00	Complies
2437	-17.42	0.0181	8.00	Complies
2452	-17.10	0.0195	8.00	Complies

TX CH03



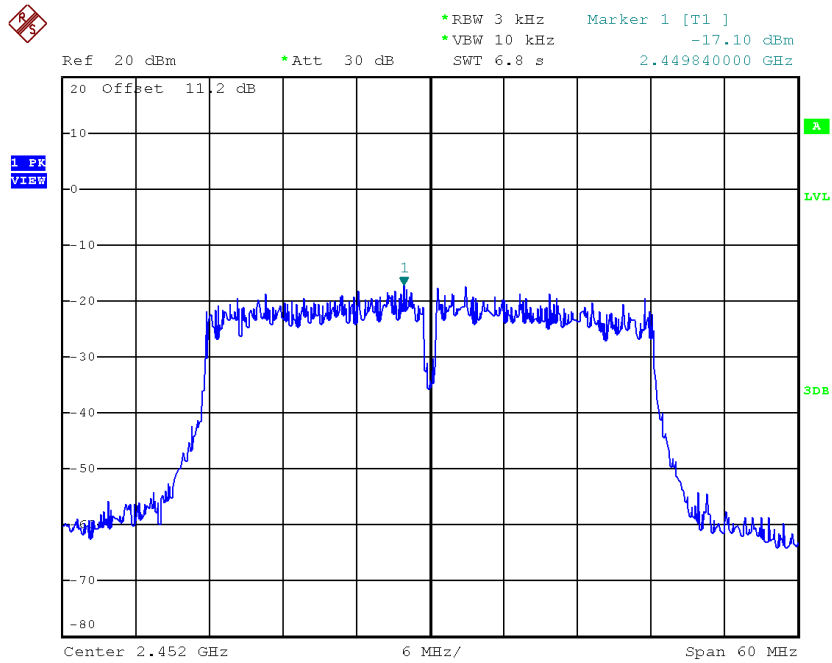
Date: 19.DEC.2016 20:22:55

TX CH06



Date: 19.DEC.2016 20:24:14

TX CH09



Date: 19.DEC.2016 20:25:48