

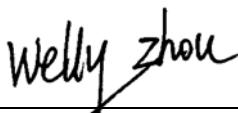
FCC Radio Test Report

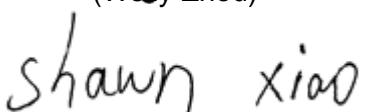
FCC ID: 2AC23-WT21M2610

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

Project No. : 1808C159A
Equipment : WIFI+BT Module
Test Model : WT21M2610
Series Model : N/A
Applicant : Hui Zhou Gaoshengda Technology Co.,LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong

Date of Receipt : Aug. 16, 2018
Date of Test : Aug. 17, 2018 ~ Nov. 09, 2018
Issued Date : Dec. 05, 2018
Tested by : BTL Inc.

Testing Engineer : 
(Welly Zhou)

Technical Manager : 
(Shawn Xiao)

Authorized Signatory : 
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Certificate #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 30, 2018
R01	1. Update the description of the power source. 2. Update Conduction Test Photo.	Dec. 05, 2018

1. CERTIFICATION

Equipment : WIFI+BT Module
Brand Name : GSD
Test Model : WT21M2610
Series Model : N/A
Applicant : Hui Zhou Gaoshengda Technology Co.,LTD
Manufacturer : Hui Zhou Gaoshengda Technology Co.,LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong
Factory : Hui Zhou Gaoshengda Technology Co.,LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong
Date of Test : Aug. 17, 2018 ~ Nov. 09, 2018
Test Sample : Engineering Sample No.: D180806941
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-2-1808C159A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth LE part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical 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)	6 dB Bandwidth	PASS	
15.247(b)(3)	Maximum 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 to this device.

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 %, $U=2\times U_c(y)$.

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	WIFI+BT Module	
Brand Name	GSD	
Test Model	WT21M2610	
Series Model	N/A	
Model Difference(s)	N/A	
Software Version	Ulv1.92_DLLv3.92_20171201	
Hardware Version	v1.0	
Product Description	Operation Frequency	2402 MHz ~2480 MHz
	Modulation Technology	GFSK(1Mbps) GFSK(2Mbps)
	Bit Rate of Transmitter	
	Output Power (Max.)	12.98 dBm (1Mbps) 12.04 dBm (2Mbps)
Power Source	#1 DC voltage supplied from AC/DC adapter(support unit).	
Power Rating	#1 I/P: 100-240V, 50/60Hz,0.3A Max O/P: 5.0V === 500mA #2 DC 5V	

Note:

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

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Mfr.	P/N	Antenna Type	Connector	Gain (dBi)
1	SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.	WC0D-60	PIFA	N/A	1.72

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 Mode NOTE (1)

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 1	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Note:

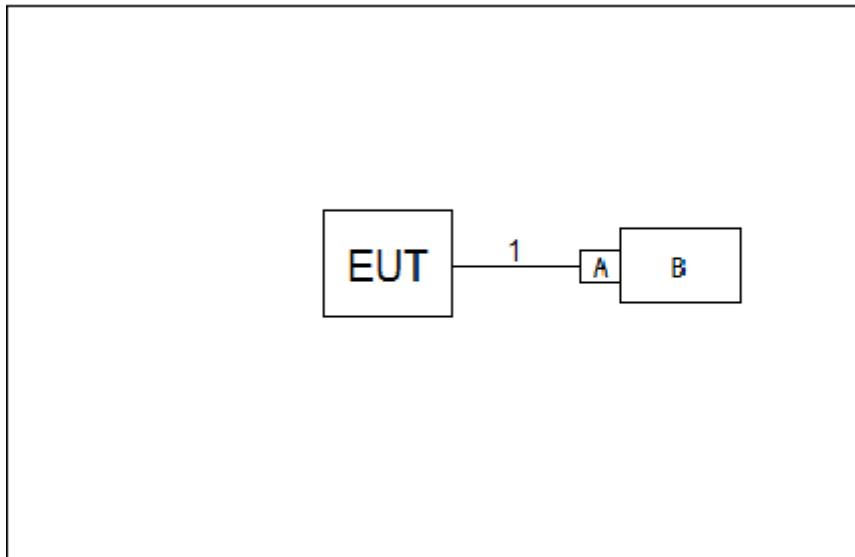
- (1) The measurements are performed at the high, middle, low available channels.

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 BT LE

Test Software Version	WCN_Combo_Tool		
Frequency (MHz)	2402	2440	2480
Parameters(1Mbps)	N/A	N/A	N/A
Parameters(2Mbps)	N/A	N/A	N/A

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	Test Fixture	N/A	N/A	N/A	N/A
B	Notebook	Lenovo	G410	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.5m	Data Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

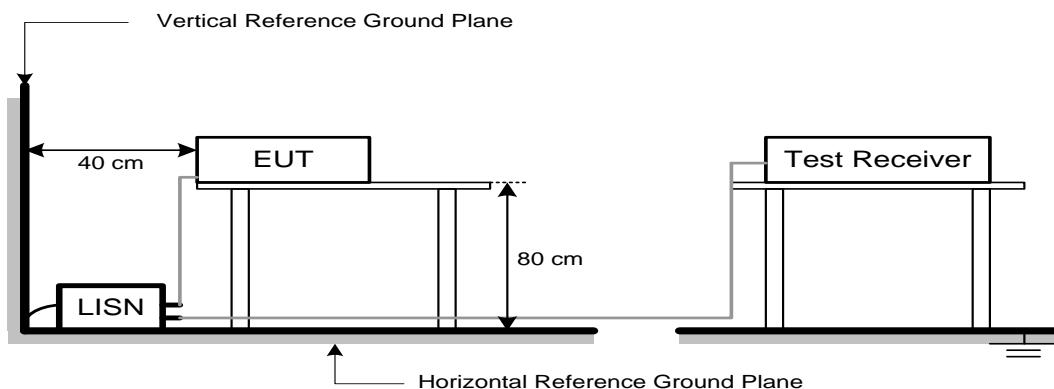
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support 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



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.
- (3) “N/A” denotes test is not applicable to this device.

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 (9 kHz-1000 MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

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

Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1 MHz VBW 3 MHz peak detector for Pk value RMS detector for AV value

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

4.2.2 TEST PROCEDURE

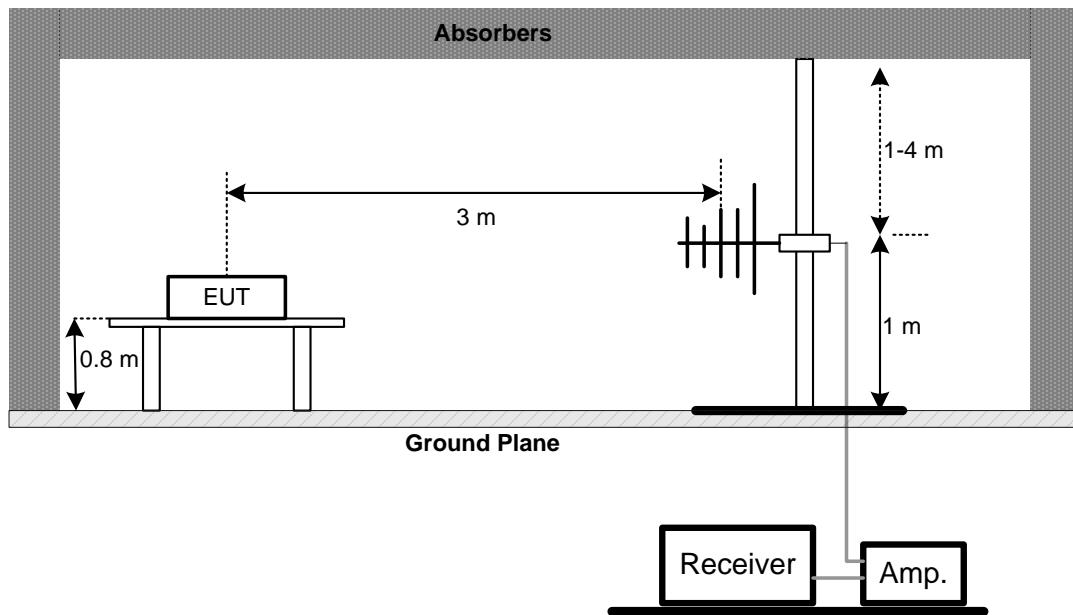
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m or 1.5m 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 1 GHz.
- 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 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

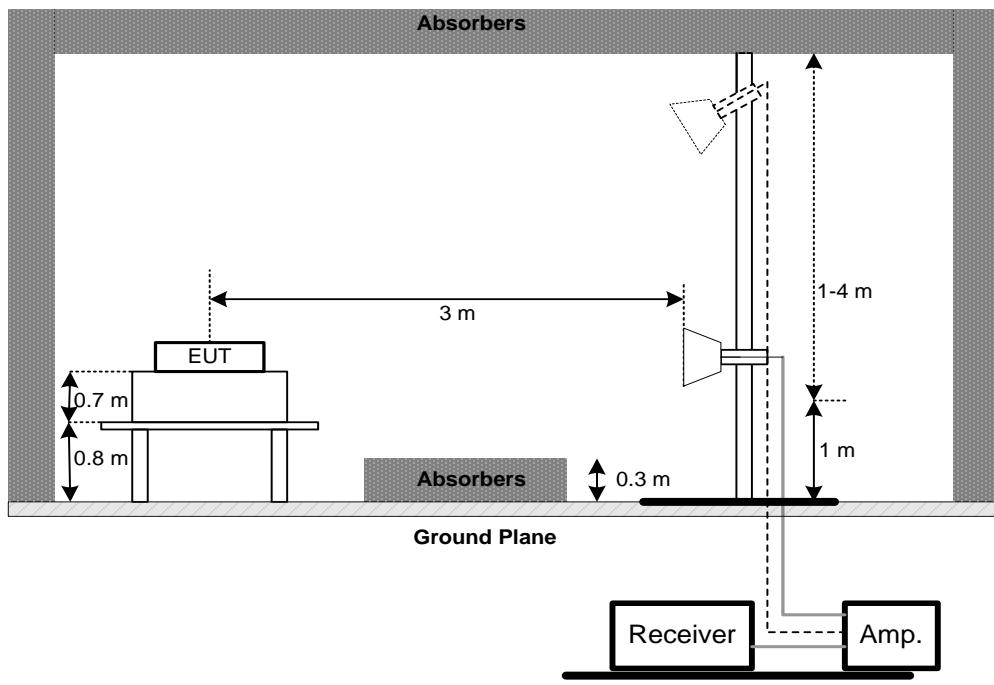
No deviation

4.2.4 TEST SETUP

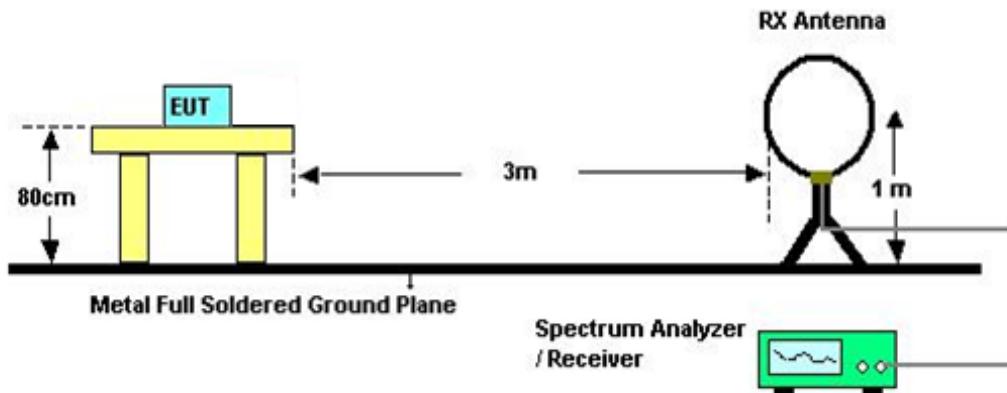
(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



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



(C) For radiated emissions 9 kHz-30 MHz



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: 60% Test Voltage: DC 5V

4.2.7 TEST RESULT (9 kHz TO 30 MHz)

Please refer to the Appendix B

Remark:

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

4.2.8 TEST RESULT (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULT (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500 kHz (6 dB 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= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 5V

5.1.6 TEST RESULTS

Please refer to the Appendix E.

6. MAXIMUM 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 30 dBm	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



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 5V

6.1.6 TEST RESULTS

Please refer to the Appendix F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

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= 100 kHz, VBW=300 kHz, Sweep time = 10 ms.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT OPERATION CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 5V

7.1.6 TEST RESULTS

Please refer to the Appendix 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 3 kHz)	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=3 kHz, VBW=10 kHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 5V

8.1.6 TEST RESULTS

Please refer to the Appendix H.

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	Mar. 23, 2019

Radiated Emission Measurement - 9kHz TO 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement – 30 MHz TO 1000 MHz					
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	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement - Above 1 GHz

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

6 dB Bandwidth Measurement

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

Output Power Measurement

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 Measurement

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

Power Spectral Density Measurement

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

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

All calibration period of equipment list is one year.

10. EUT TEST PHOTO**Conducted Measurement Photos**

Radiated Measurement Photos

9 kHz to 30 MHz



Radiated Measurement Photos

30 MHz to 1000 MHz



Radiated Measurement Photos

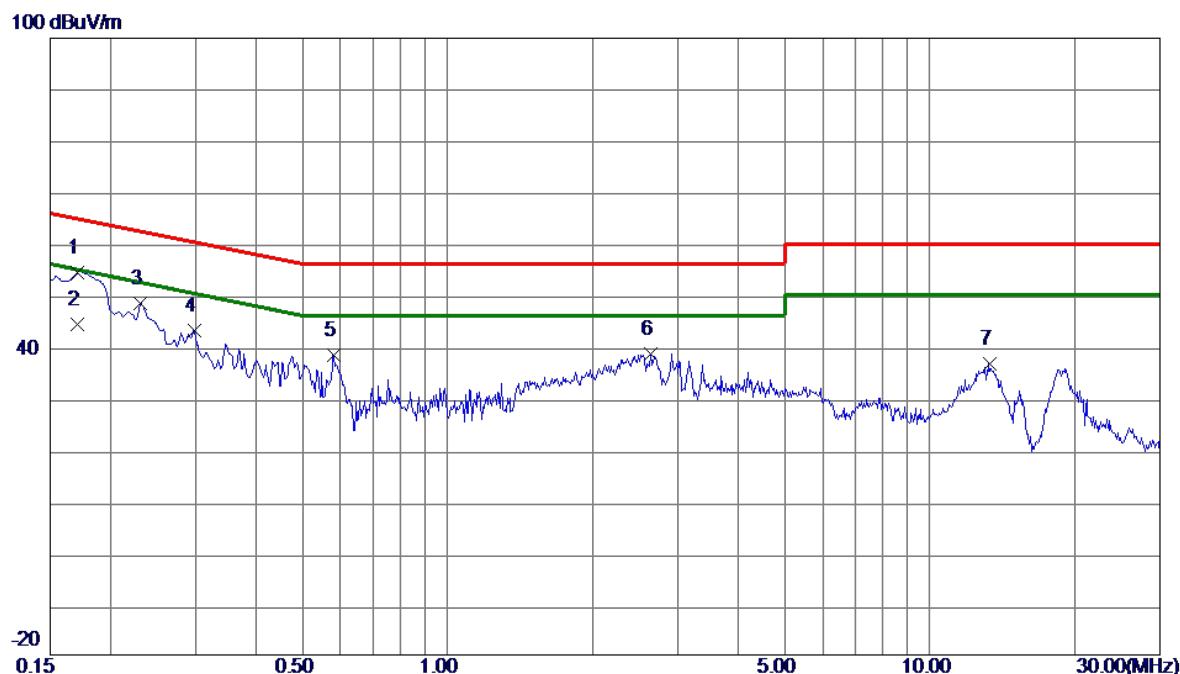
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

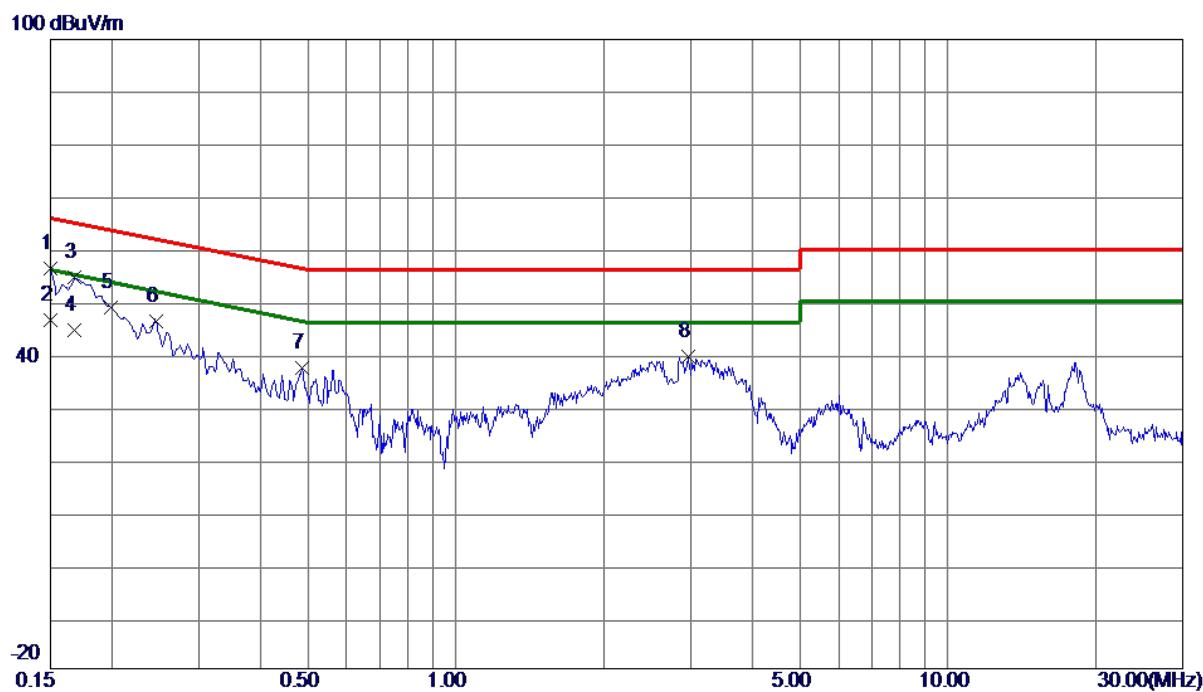
Line



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.1712	44.80	9.69	54.49	64.90	-10.41	Peak	
2	0.1712	34.73	9.69	44.42	54.90	-10.48	AVG	
3	0.2310	38.78	9.68	48.46	62.41	-13.95	Peak	
4	0.2985	33.42	9.68	43.10	60.28	-17.18	Peak	
5	0.5820	28.54	9.70	38.24	56.00	-17.76	Peak	
6	2.6385	28.86	9.80	38.66	56.00	-17.34	Peak	
7	13.3125	26.83	9.90	36.73	60.00	-23.27	Peak	

Test Mode: TX Mode

Neutral

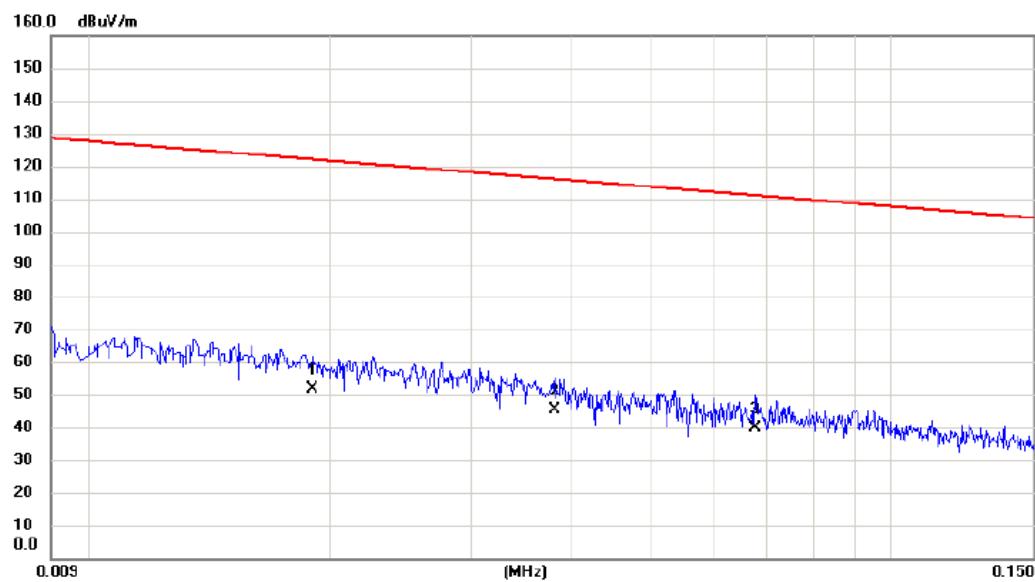


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1500	46.68	9.69	56.37	66.00	-9.63	Peak	
2 *	0.1500	36.72	9.69	46.41	56.00	-9.59	AVG	
3	0.1680	44.83	9.69	54.52	65.06	-10.54	Peak	
4	0.1680	34.82	9.69	44.51	55.06	-10.55	AVG	
5	0.1995	39.29	9.68	48.97	63.63	-14.66	Peak	
6	0.2455	36.45	9.68	46.13	61.91	-15.78	Peak	
7	0.4875	27.62	9.69	37.31	56.21	-18.90	Peak	
8	2.9625	29.75	9.82	39.57	56.00	-16.43	Peak	

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

Test Mode: TX Mode

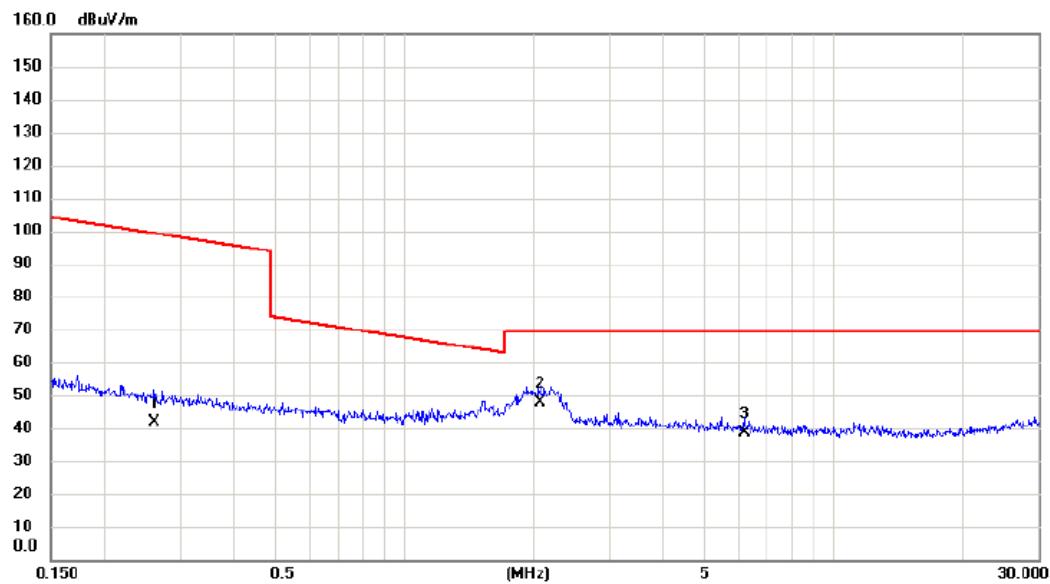
Ant 0°



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level dBuV	Factor dB	ment dBuV/m				
1	*	0.0190	31.60	20.16	51.76	122.03	-70.27	AVG	
2		0.0381	25.60	19.73	45.33	115.99	-70.66	AVG	
3		0.0677	20.70	19.18	39.88	110.99	-71.11	AVG	

Test Mode: TX Mode

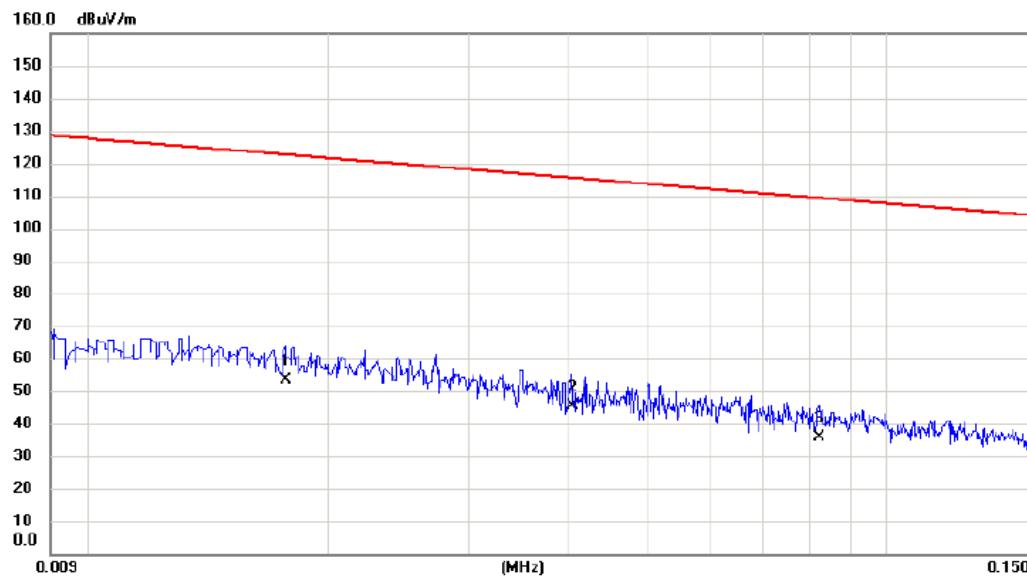
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2603	24.70	17.06	41.76	99.30	-57.54	AVG	
2	*	2.0660	30.70	17.08	47.78	69.54	-21.76	QP	
3		6.1860	23.50	14.97	38.47	69.54	-31.07	QP	

Test Mode: TX Mode

Ant 90°



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level dBuV	Factor dB	ment dBuV/m				
1	*	0.0177	33.20	20.34	53.54	122.65	-69.11	AVG	
2		0.0404	25.70	19.69	45.39	115.48	-70.09	AVG	
3		0.0820	17.10	18.87	35.97	109.33	-73.36	AVG	

Test Mode: TX Mode

Ant 90°



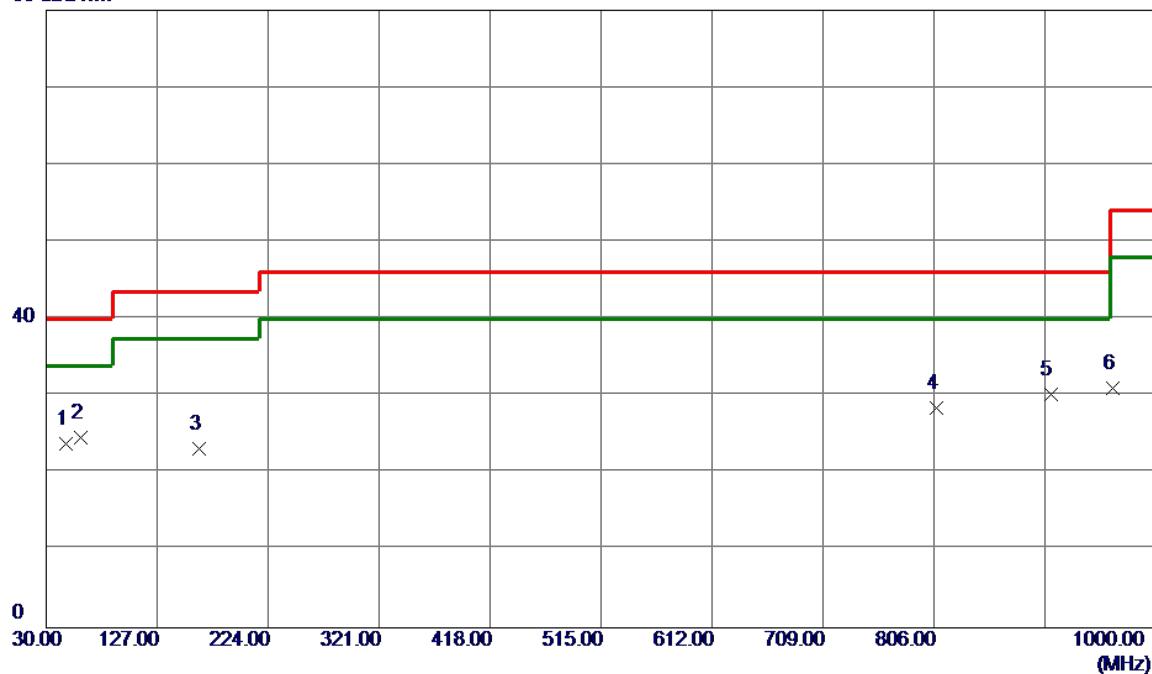
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1		0.2955	22.16	17.04	39.20	98.19	-58.99	AVG	
2	*	1.9490	31.80	17.08	48.88	69.54	-20.66	QP	
3		3.7198	23.80	15.96	39.76	69.54	-29.78	QP	

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

Test Mode: TX 2402 MHz _CH00

Vertical

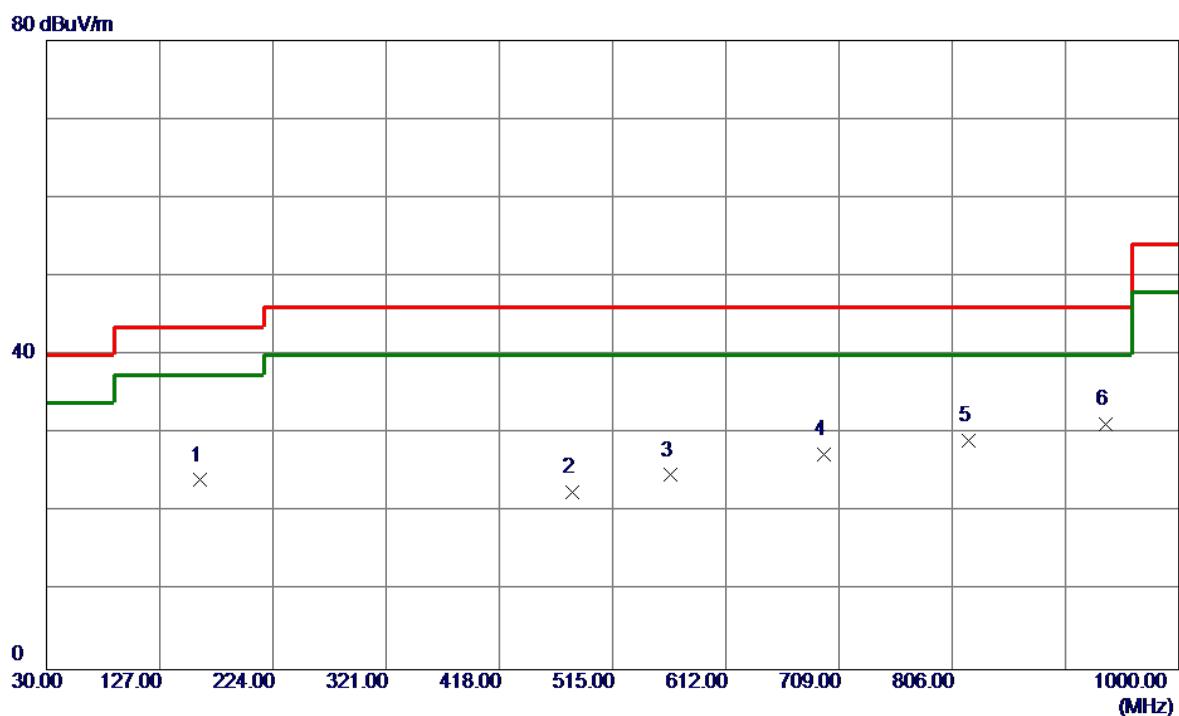
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment	
								Comment	Detector
1	47.4600	38.69	-14.81	23.88	40.00	-16.12	Peak		
2 *	60.0700	40.28	-15.69	24.59	40.00	-15.41	Peak		
3	163.8600	34.06	-10.83	23.23	43.50	-20.27	Peak		
4	807.9400	29.69	-1.16	28.53	46.00	-17.47	Peak		
5	907.8500	30.56	-0.28	30.28	46.00	-15.72	Peak		
6	962.1700	29.89	1.12	31.01	54.00	-22.99	Peak		

Test Mode:	TX 2402 MHz _CH00
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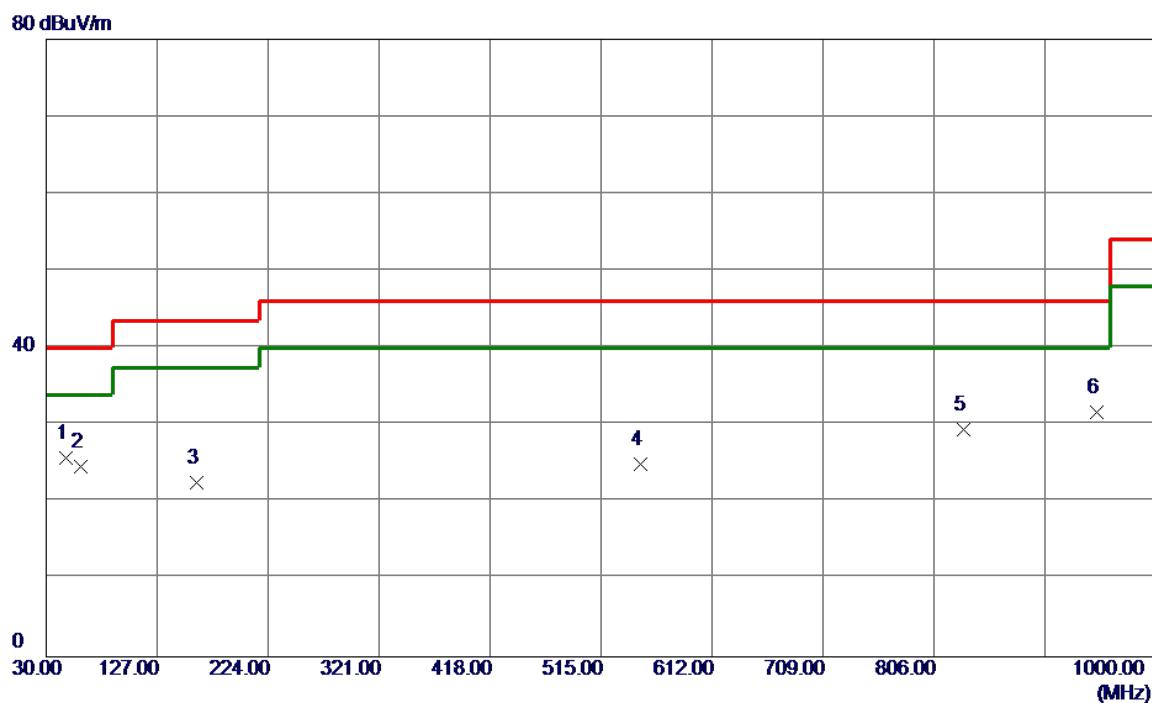
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	161.9200	34.79	-10.71	24.08	43.50	-19.42	Peak	
2	480.0800	30.59	-8.08	22.51	46.00	-23.49	Peak	
3	564.4699	30.43	-5.71	24.72	46.00	-21.28	Peak	
4	696.3900	30.26	-2.92	27.34	46.00	-18.66	Peak	
5	819.5800	30.43	-1.35	29.08	46.00	-16.92	Peak	
6 *	936.9500	30.28	0.89	31.17	46.00	-14.83	Peak	

Test Mode: TX 2440 MHz _CH19

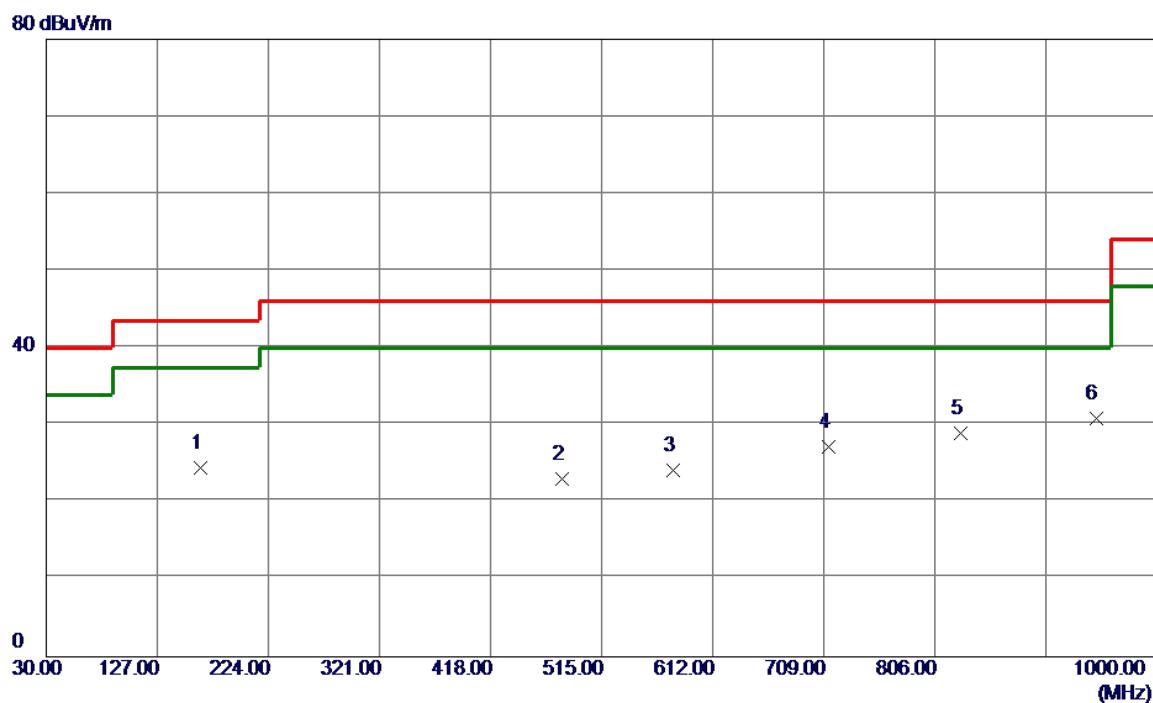
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment	
								Comment	Margin
1 *	47.4600	40.60	-14.81	25.79	40.00	-14.21	Peak		
2	60.0700	40.27	-15.69	24.58	40.00	-15.42	Peak		
3	161.9200	33.33	-10.71	22.62	43.50	-20.88	Peak		
4	549.9200	30.38	-5.47	24.91	46.00	-21.09	Peak		
5	832.1900	31.01	-1.54	29.47	46.00	-16.53	Peak		
6	948.5900	30.31	1.35	31.66	46.00	-14.34	Peak		

Test Mode: TX 2440 MHz _CH19

Horizontal

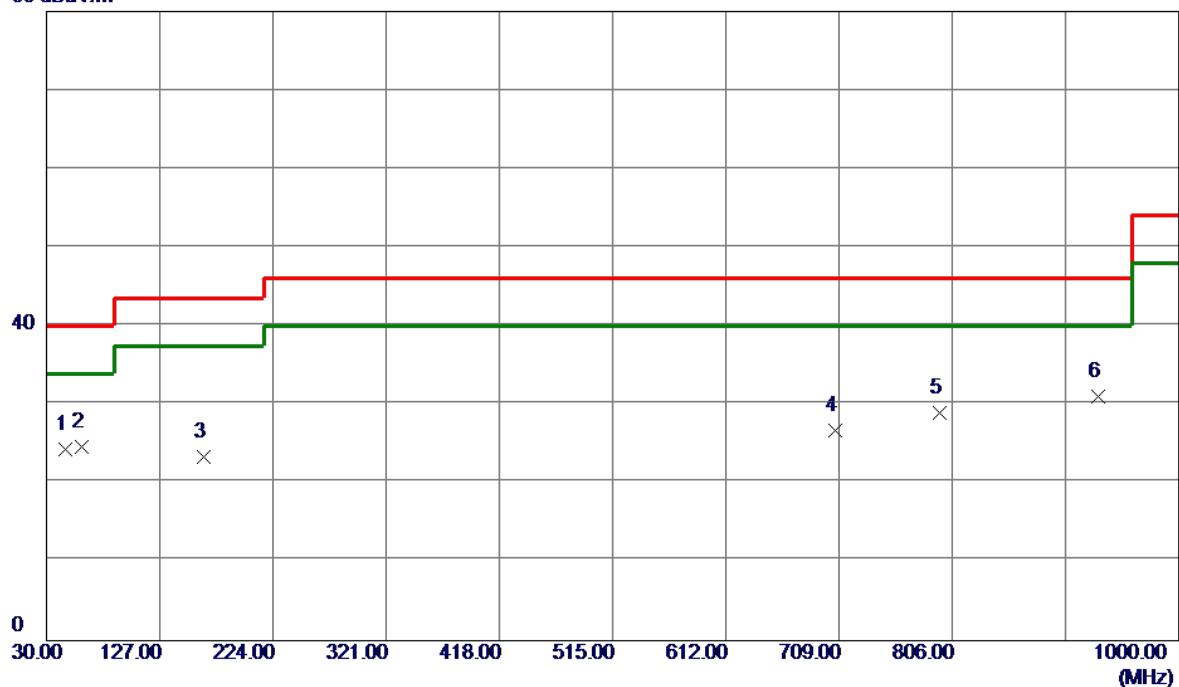


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	164.8300	35.33	-10.89	24.44	43.50	-19.06	Peak		
2	480.0800	31.17	-8.08	23.09	46.00	-22.91	Peak		
3	577.0800	30.09	-5.92	24.17	46.00	-21.83	Peak		
4	712.8800	30.21	-3.08	27.13	46.00	-18.87	Peak		
5	828.3100	30.49	-1.48	29.01	46.00	-16.99	Peak		
6 *	946.6500	29.56	1.28	30.84	46.00	-15.16	Peak		

Test Mode: TX 2480 MHz _CH39

Vertical

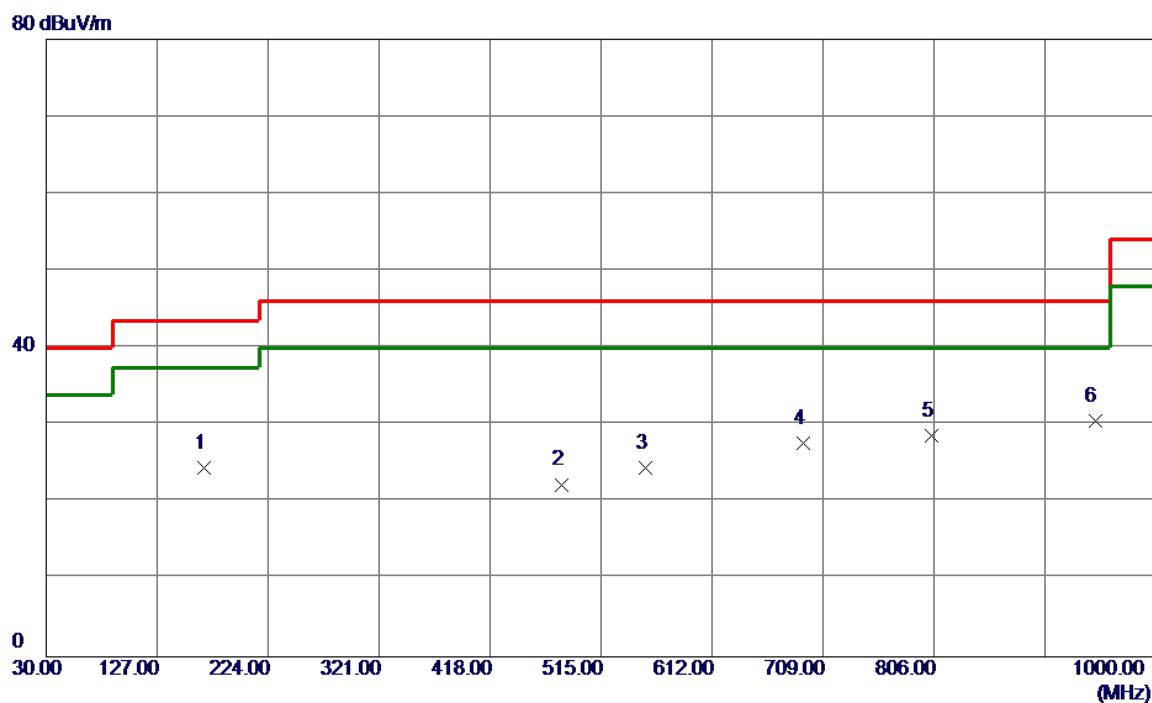
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	46.4900	39.03	-14.77	24.26	40.00	-15.74	Peak	
2	60.0700	40.28	-15.69	24.59	40.00	-15.41	Peak	
3	164.8300	34.19	-10.89	23.30	43.50	-20.20	Peak	
4	706.0900	29.65	-2.90	26.75	46.00	-19.25	Peak	
5	795.3300	30.30	-1.32	28.98	46.00	-17.02	Peak	
6 *	931.1300	30.41	0.65	31.06	46.00	-14.94	Peak	

Test Mode: TX 2480 MHz _CH39

Horizontal

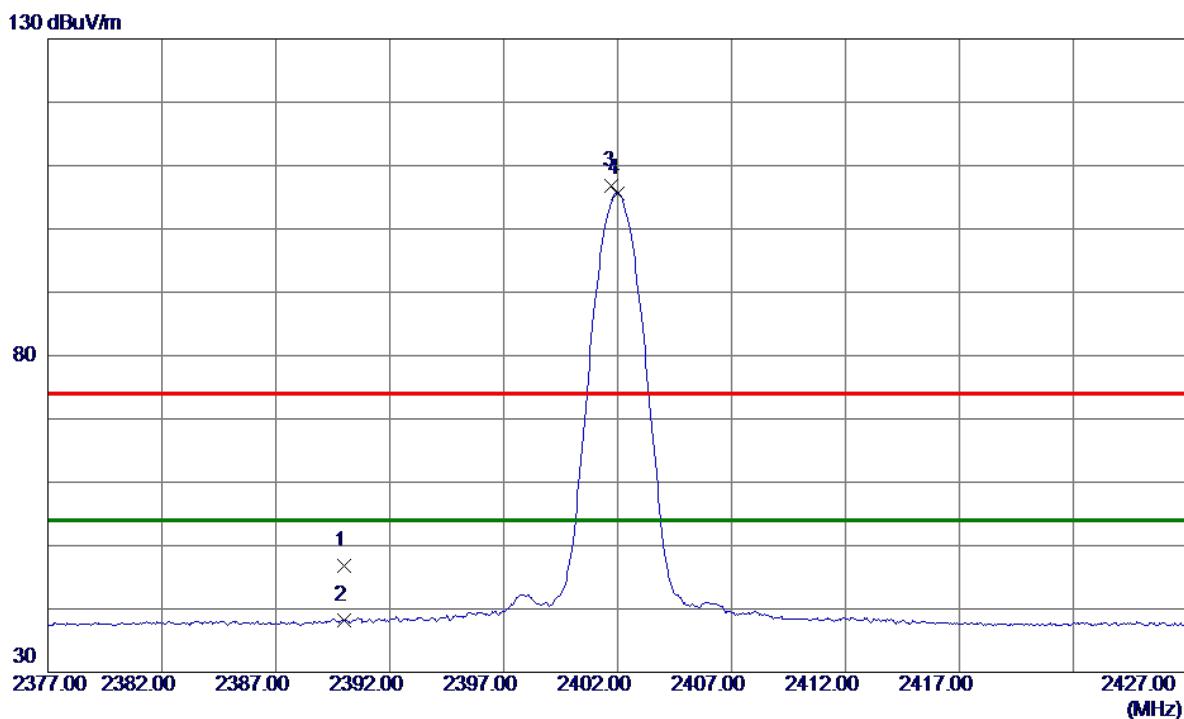


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	167.7400	35.52	-11.06	24.46	43.50	-19.04	Peak	
2	480.0800	30.40	-8.08	22.32	46.00	-23.68	Peak	
3	553.8000	29.97	-5.53	24.44	46.00	-21.56	Peak	
4	691.5400	30.81	-3.16	27.65	46.00	-18.35	Peak	
5	804.0600	29.73	-1.10	28.63	46.00	-17.37	Peak	
6 *	946.6500	29.30	1.28	30.58	46.00	-15.42	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

Test Mode : TX 2402 MHz _CH00_1Mbps

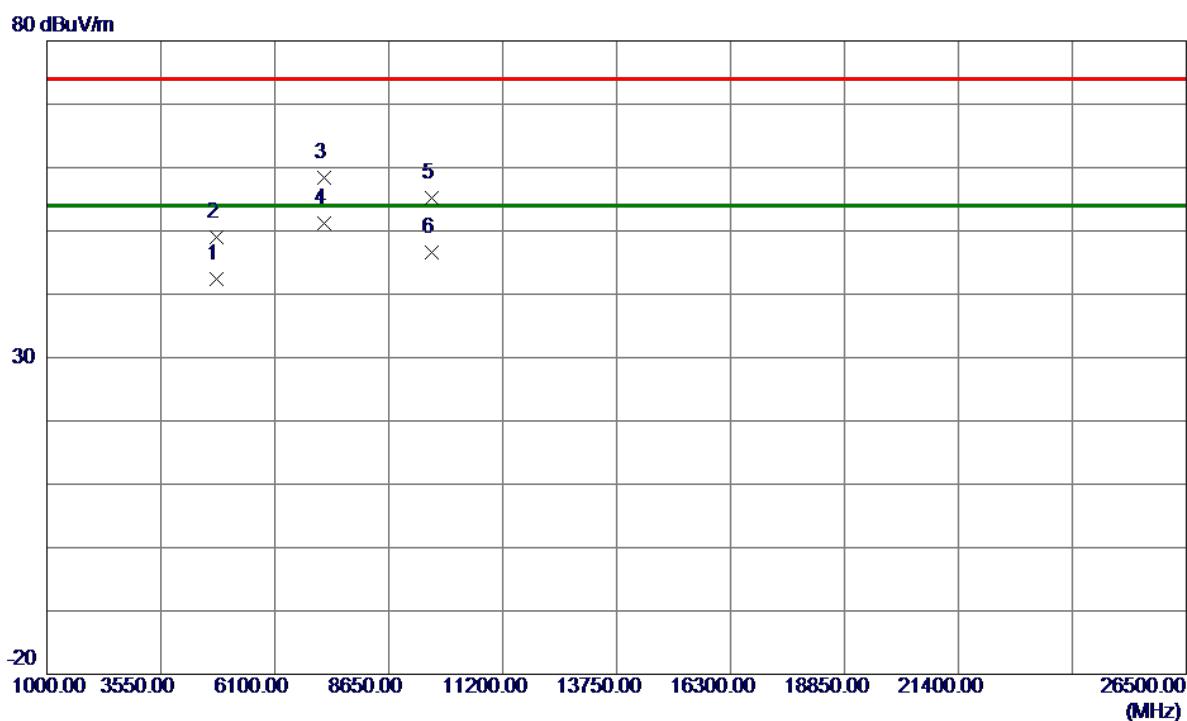
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	2390.0000	39.41	7.39	46.80	74.00	-27.20	Peak	
2	2390.0000	30.74	7.39	38.13	54.00	-15.87	AVG	
3	2401.7500	99.51	7.38	106.89	74.00	32.89	Peak	No Limit
4 *	2402.0000	98.26	7.38	105.64	54.00	51.64	AVG	No Limit

Test Mode : TX 2402 MHz _CH00_1Mbps

Vertical

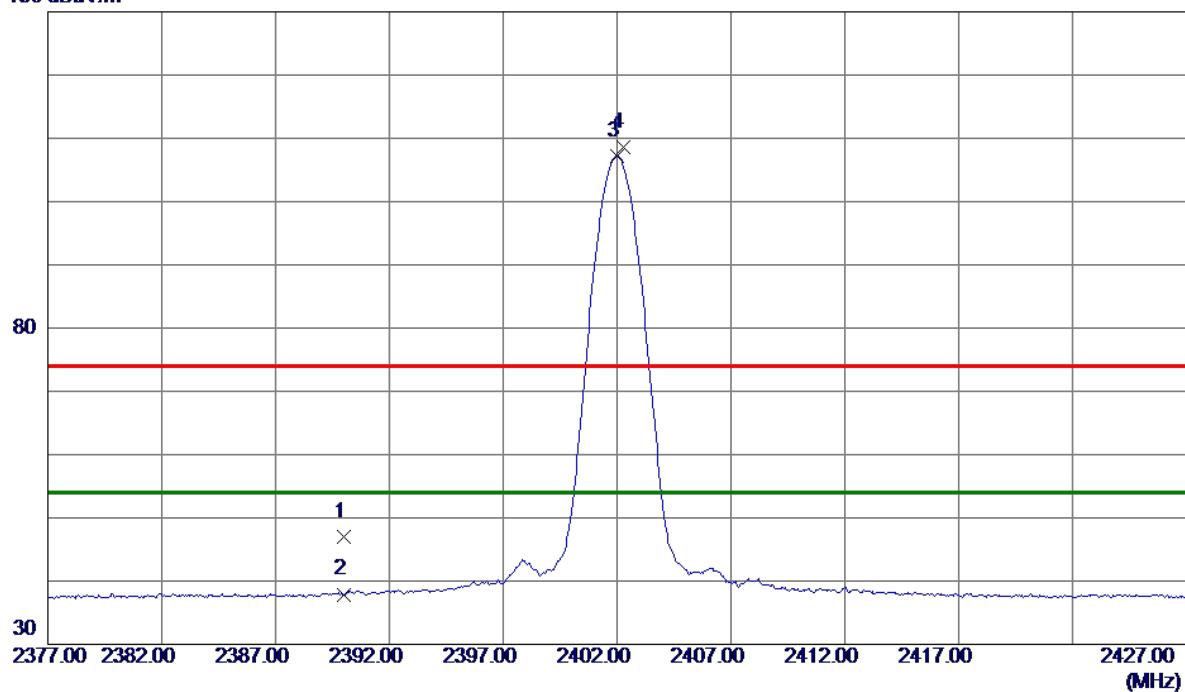


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m dB	Margin dB	Detector	Comment
1	4803.9400	38.96	3.45	42.41	54.00	-11.59	AVG	
2	4804.3800	45.48	3.45	48.93	74.00	-25.07	Peak	
3	7205.3700	48.96	9.36	58.32	74.00	-15.68	Peak	
4 *	7205.3900	41.88	9.36	51.24	54.00	-2.76	AVG	
5	9607.1400	44.38	10.76	55.14	74.00	-18.86	Peak	
6	9607.1449	35.83	10.76	46.59	54.00	-7.41	AVG	

Test Mode : TX 2402 MHz _CH00_1Mbps

Horizontal

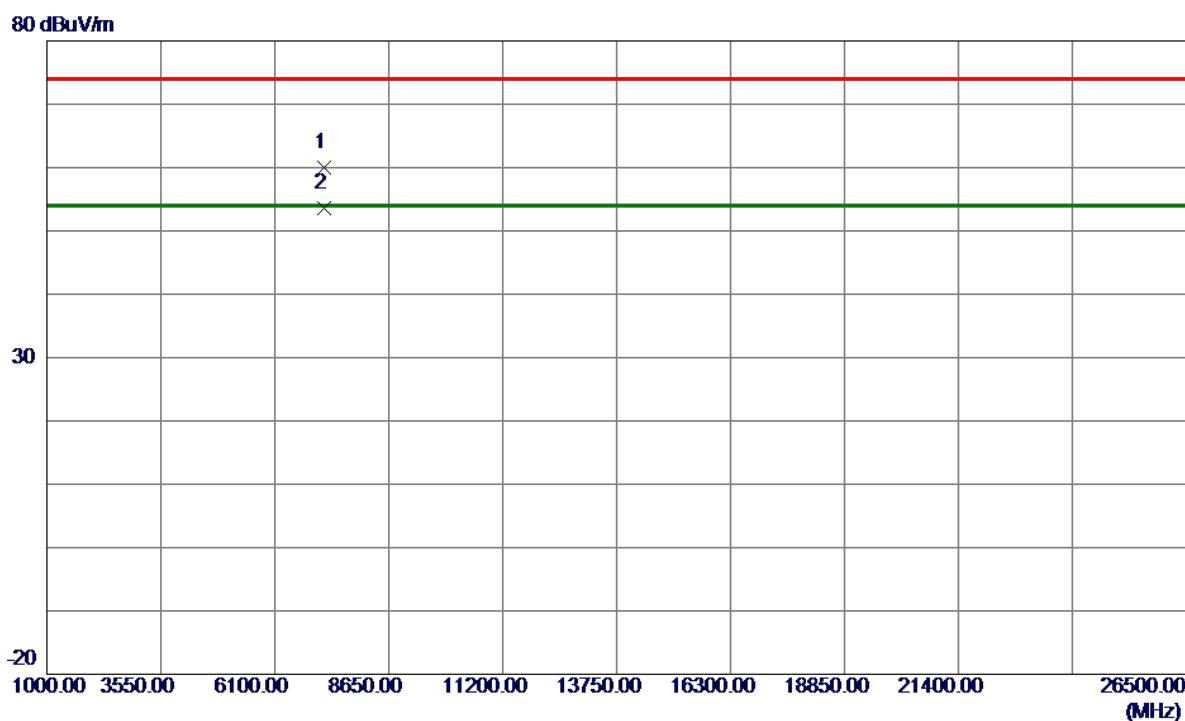
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin	Detector	Comment
1	2390.0000	39.57	7.39	46.96	74.00	-27.04	Peak	
2	2390.0000	30.51	7.39	37.90	54.00	-16.10	AVG	
3 *	2402.0000	99.83	7.38	107.21	54.00	53.21	AVG	No Limit
4	2402.2500	101.20	7.38	108.58	74.00	34.58	Peak	No Limit

Test Mode : TX 2402 MHz _CH00_1Mbps

Horizontal

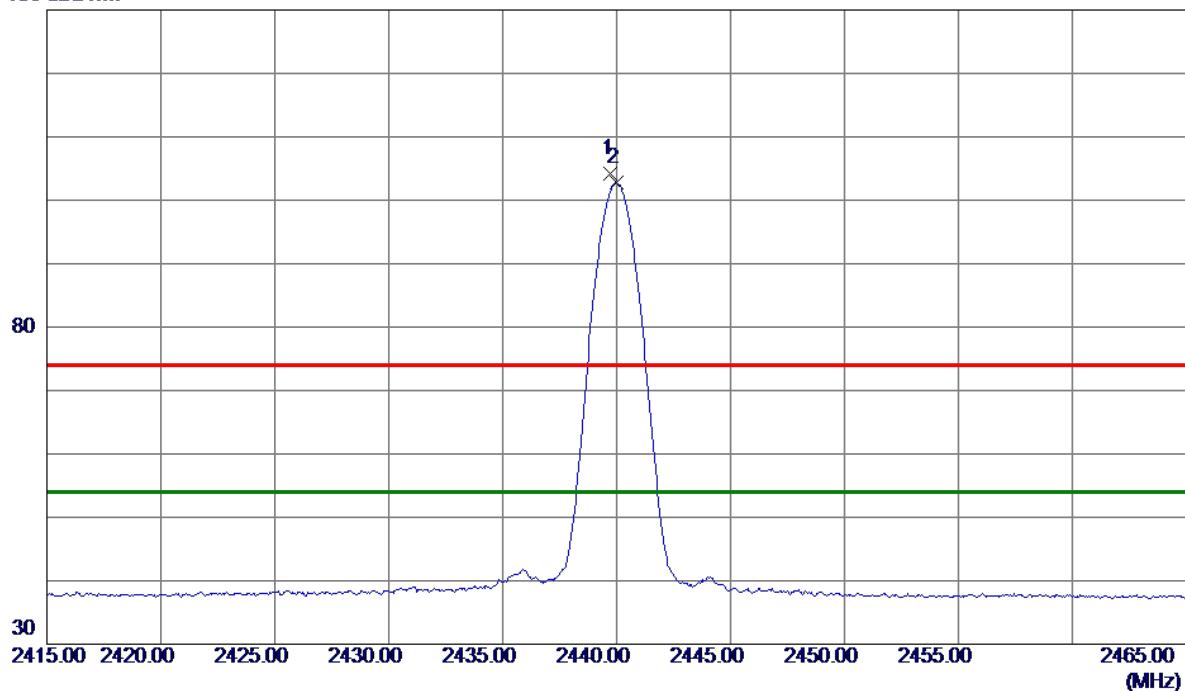


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin Detector	Comment
1	7205.2850	50.62	9.36	59.98	74.00	-14.02	Peak
2 *	7205.3750	44.19	9.36	53.55	54.00	-0.45	AVG

Test Mode : TX 2440 MHz _CH19_1Mbps

Vertical

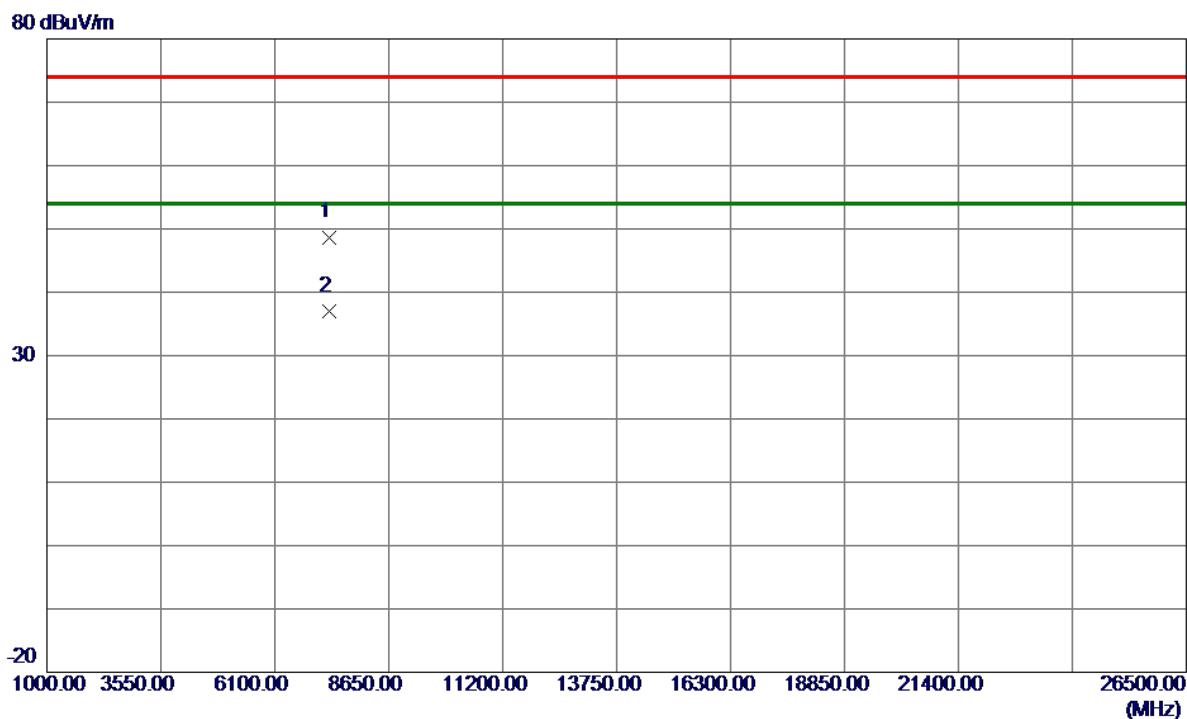
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.7500	96.84	7.35	104.19	74.00	30.19	Peak	No Limit
2 *	2440.0000	95.38	7.35	102.73	54.00	48.73	AVG	No Limit

Test Mode : TX 2440 MHz _CH19_1Mbps

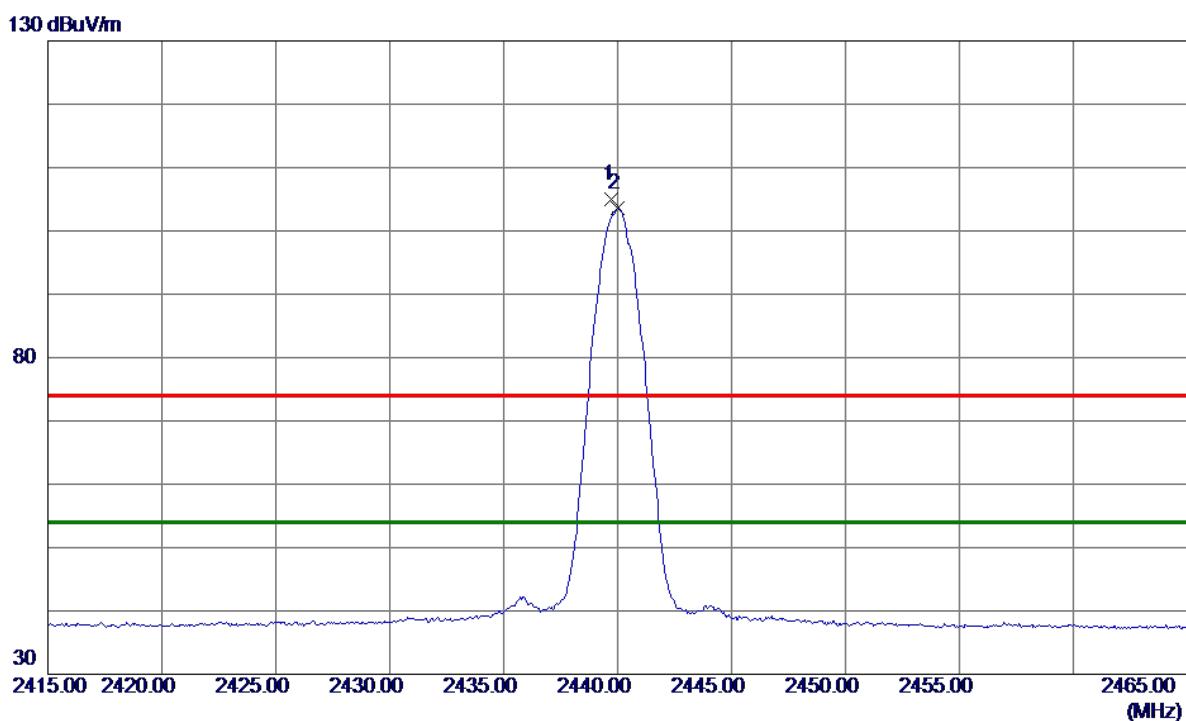
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin	Comment	
							Detector	
1	7319.8100	39.07	9.63	48.70	74.00	-25.30	Peak	
2 *	7319.9650	27.42	9.63	37.05	54.00	-16.95	AVG	

Test Mode : TX 2440 MHz _CH19_1Mbps

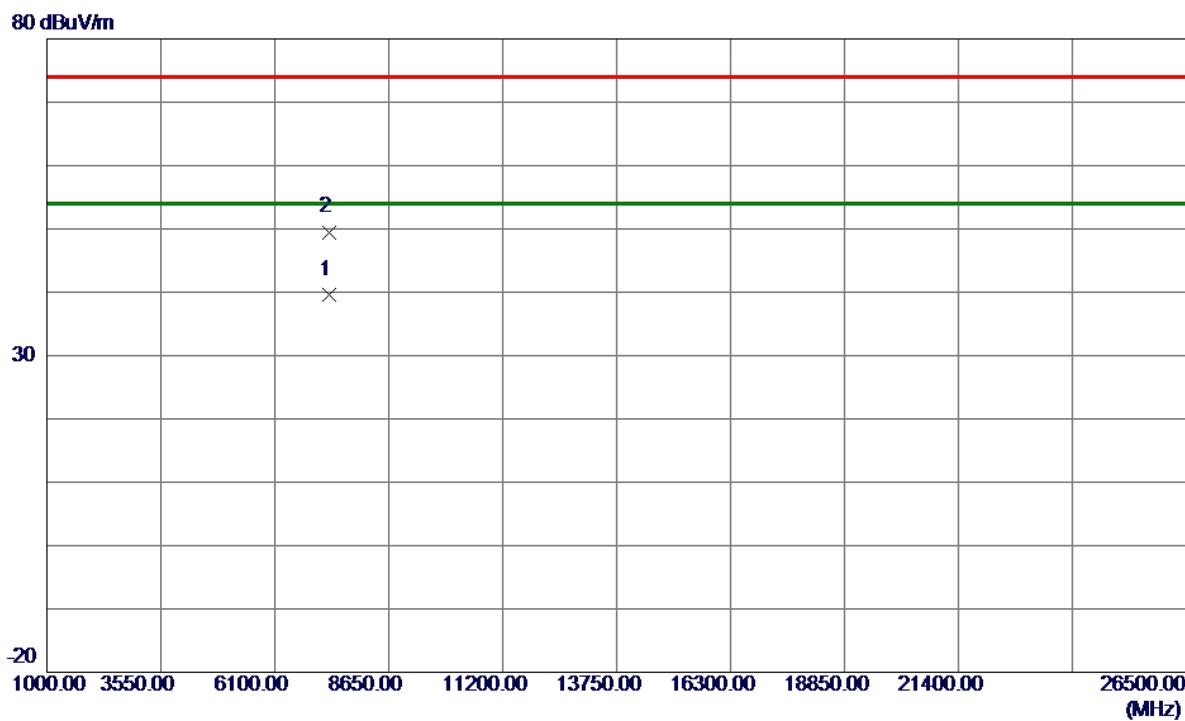
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin Detector	Comment
1	2439.7500	97.71	7.35	105.06	74.00	31.06	Peak No Limit
2 *	2440.0000	96.25	7.35	103.60	54.00	49.60	AVG No Limit

Test Mode : TX 2440 MHz _CH19_1Mbps

Horizontal

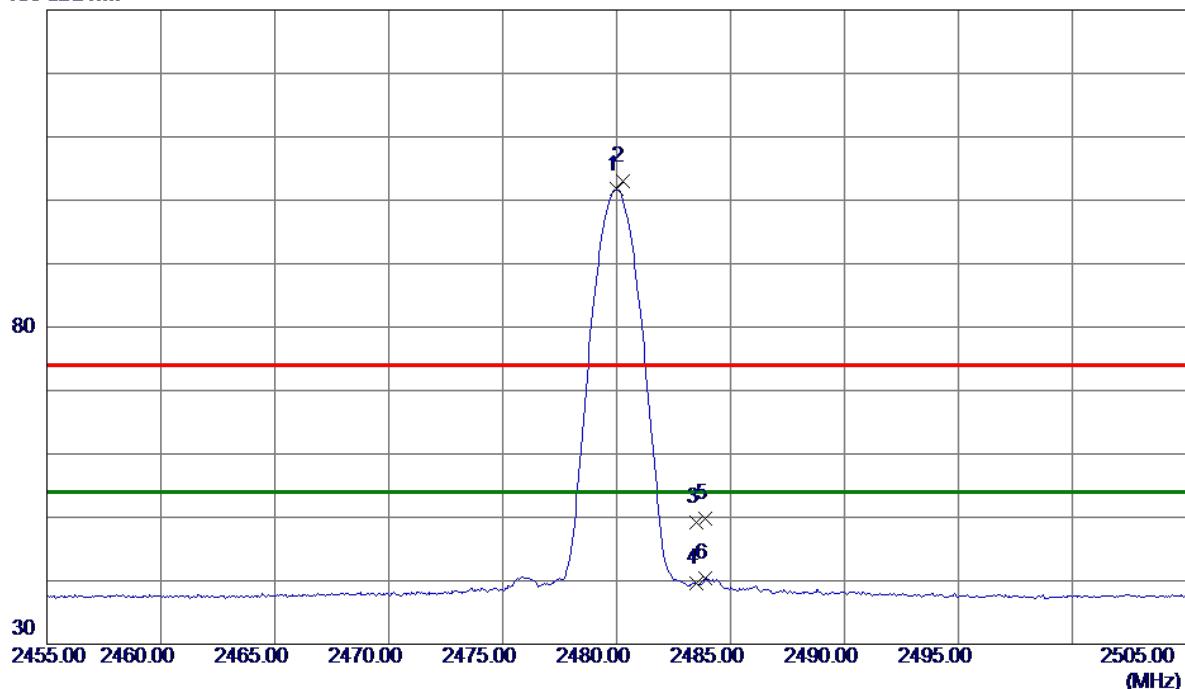


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin Detector	Comment
1 *	7319.9650	30.06	9.63	39.69	54.00	-14.31	AVG
2	7320.1250	39.87	9.63	49.50	74.00	-24.50	Peak

Test Mode : TX 2480 MHz _CH39_1Mbps

Vertical

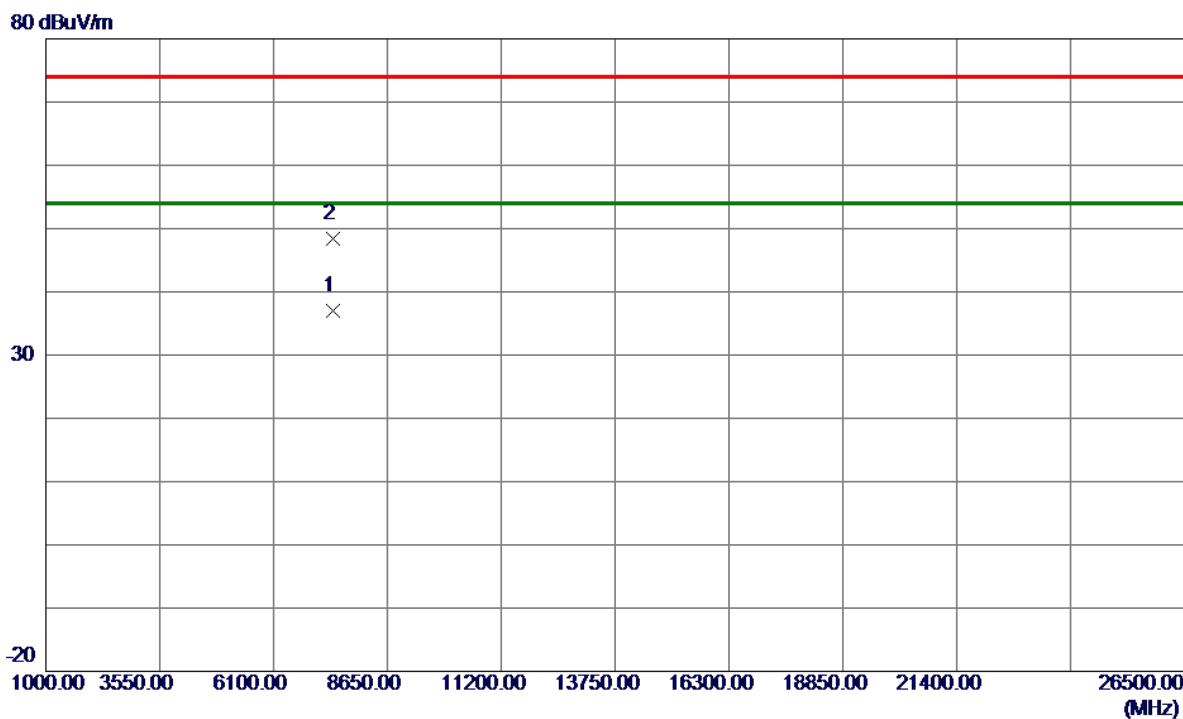
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0000	94.38	7.32	101.70	54.00	47.70	AVG	No Limit
2	2480.2500	95.78	7.32	103.10	74.00	29.10	Peak	No Limit
3	2483.5000	41.97	7.32	49.29	74.00	-24.71	Peak	
4	2483.5000	32.32	7.32	39.64	54.00	-14.36	AVG	
5	2483.9000	42.48	7.32	49.80	74.00	-24.20	Peak	
6	2483.9000	33.01	7.32	40.33	54.00	-13.67	AVG	

Test Mode : TX 2480 MHz _CH39_1Mbps

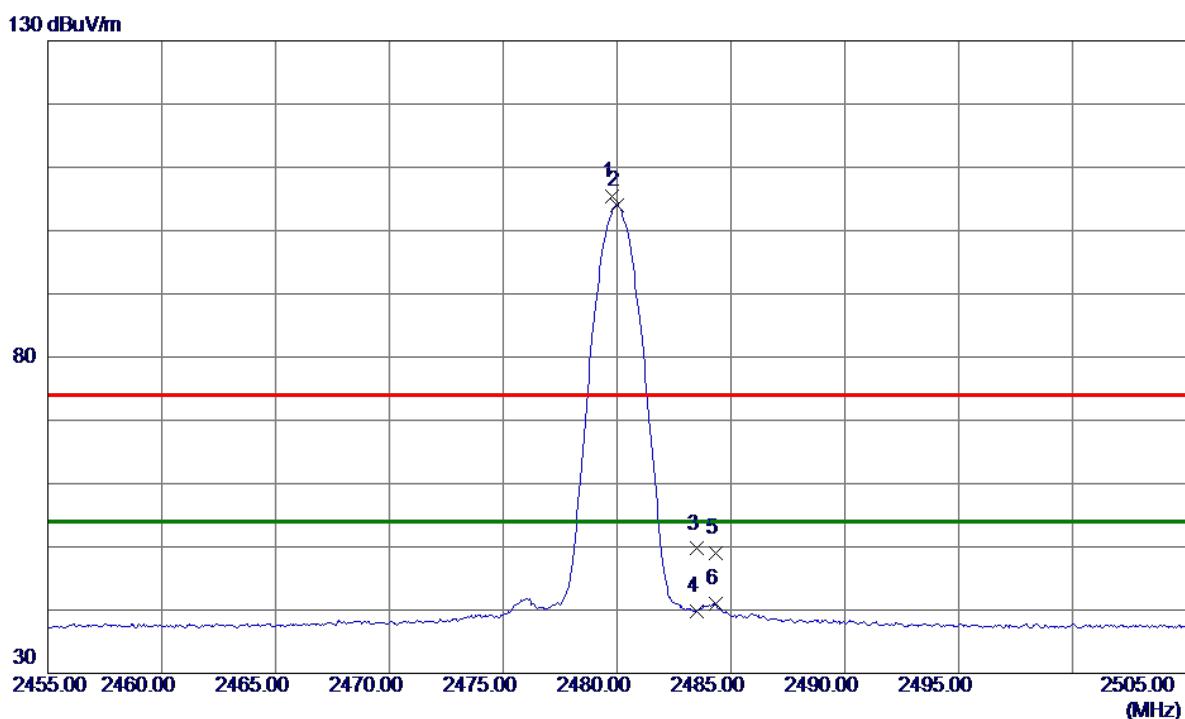
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin Detector	Comment
1 *	7440.1100	27.10	9.92	37.02	54.00	-16.98	AVG
2	7440.1700	38.39	9.92	48.31	74.00	-25.69	Peak

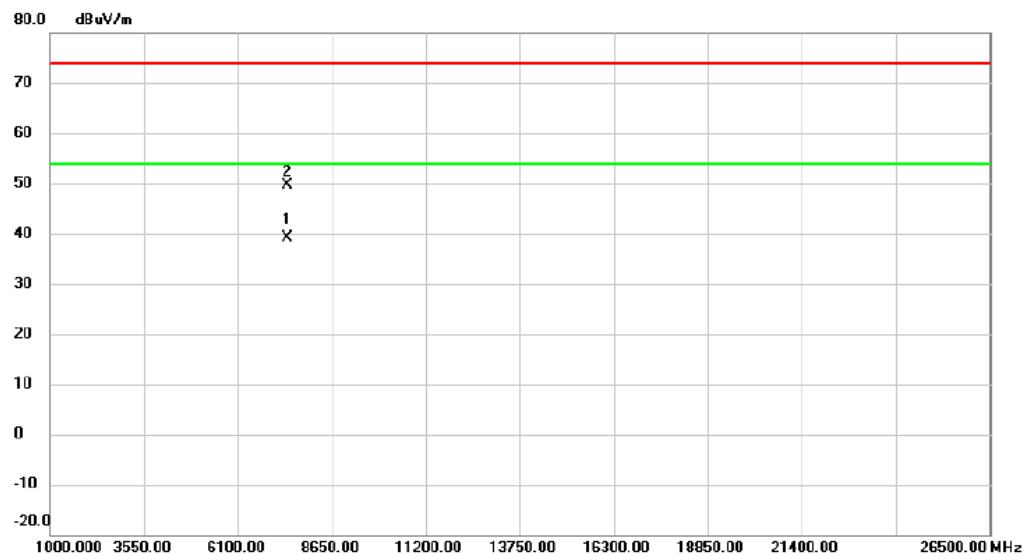
Test Mode : TX 2480 MHz _CH39_1Mbps

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin		
							Detector	Comment
1	2479.8000	98.05	7.32	105.37	74.00	31.37	Peak	No Limit
2 *	2480.0000	96.64	7.32	103.96	54.00	49.96	AVG	No Limit
3	2483.5000	42.38	7.32	49.70	74.00	-24.30	Peak	
4	2483.5000	32.45	7.32	39.77	54.00	-14.23	AVG	
5	2484.3500	41.74	7.32	49.06	74.00	-24.94	Peak	
6	2484.3500	33.70	7.32	41.02	54.00	-12.98	AVG	

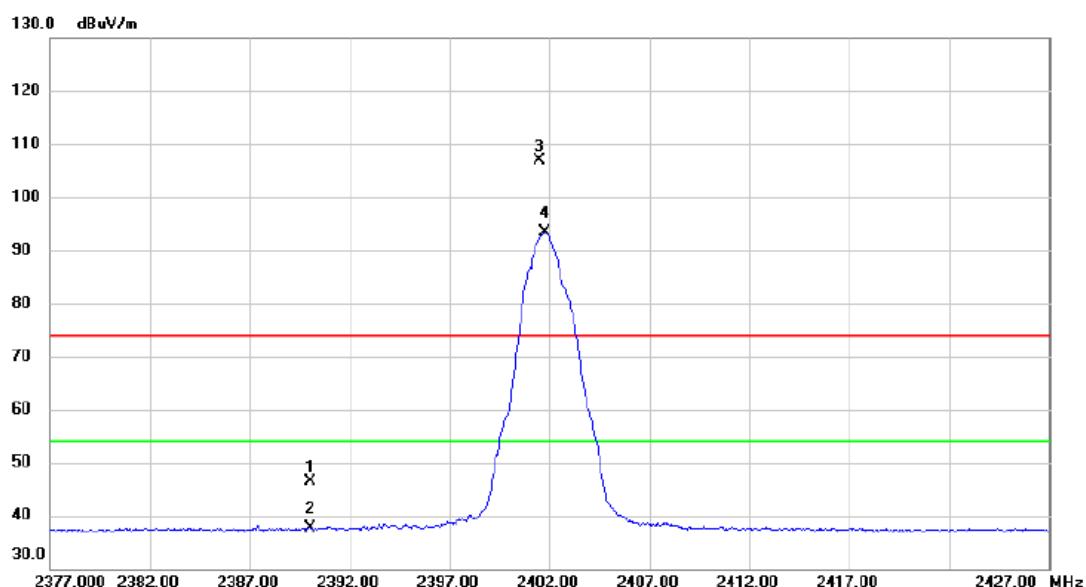
Test Mode : TX 2480 MHz _CH39_1Mbps

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	7439.995	29.23	9.92	39.15	54.00	-14.85	AVG
2		7440.035	39.79	9.92	49.71	74.00	-24.29	peak

Test Mode : TX 2402 MHz _CH00_2Mbps

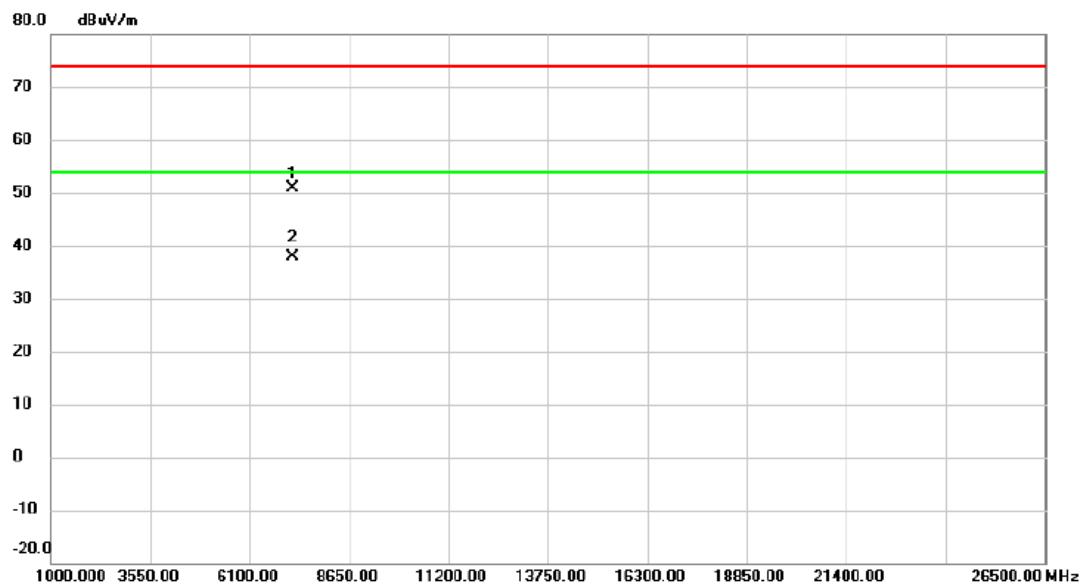
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2390.000	39.08	7.38	46.46	74.00	-27.54	peak
2		2390.000	30.26	7.38	37.64	54.00	-16.36	AVG
3	X	2401.525	99.62	7.38	107.00	74.00	33.00	peak No Limit
4	*	2401.750	85.90	7.38	93.28	54.00	39.28	AVG No Limit

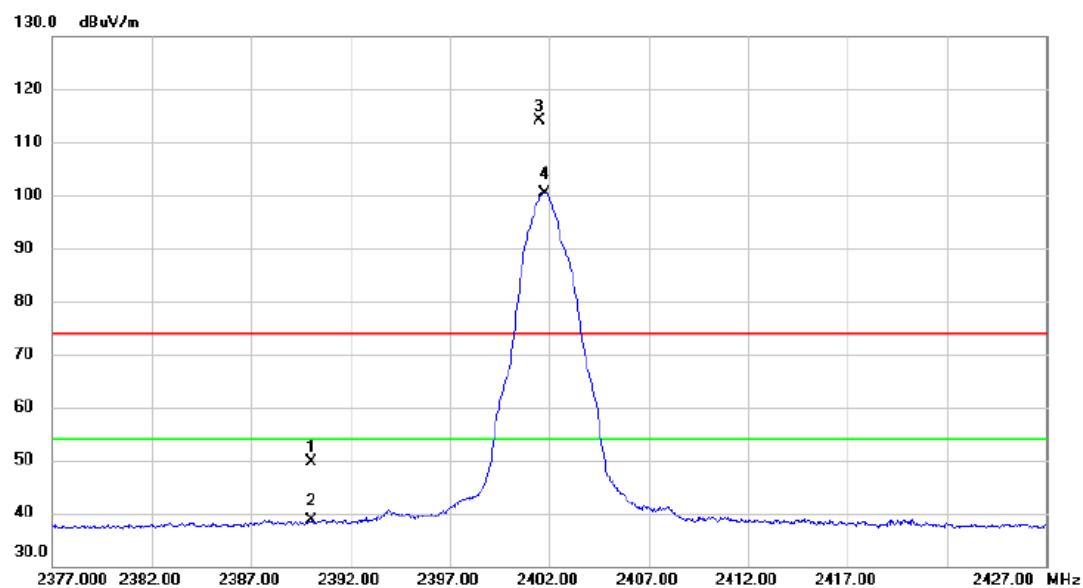
Test Mode : TX 2402 MHz _CH00_2Mbps

Vertical



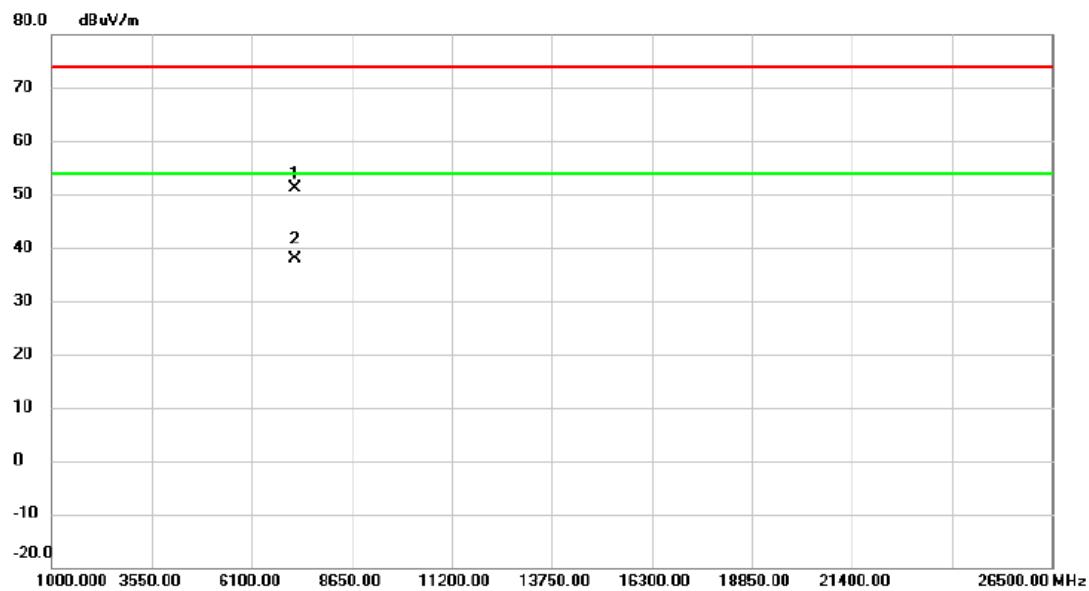
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1		7204.542	41.52	9.36	50.88	74.00	-23.12	peak	
2 *		7204.858	28.54	9.36	37.90	54.00	-16.10	AVG	

Test Mode : TX 2402 MHz _CH00_2Mbps

Horizontal

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
			dBuV	dB	dBuV/m	dB	Detector	Comment
1		2390.000	42.17	7.38	49.55	74.00	-24.45	peak
2		2390.000	31.16	7.38	38.54	54.00	-15.46	AVG
3	X	2401.525	106.69	7.38	114.07	74.00	40.07	peak No Limit
4	*	2401.750	93.06	7.38	100.44	54.00	46.44	AVG No Limit

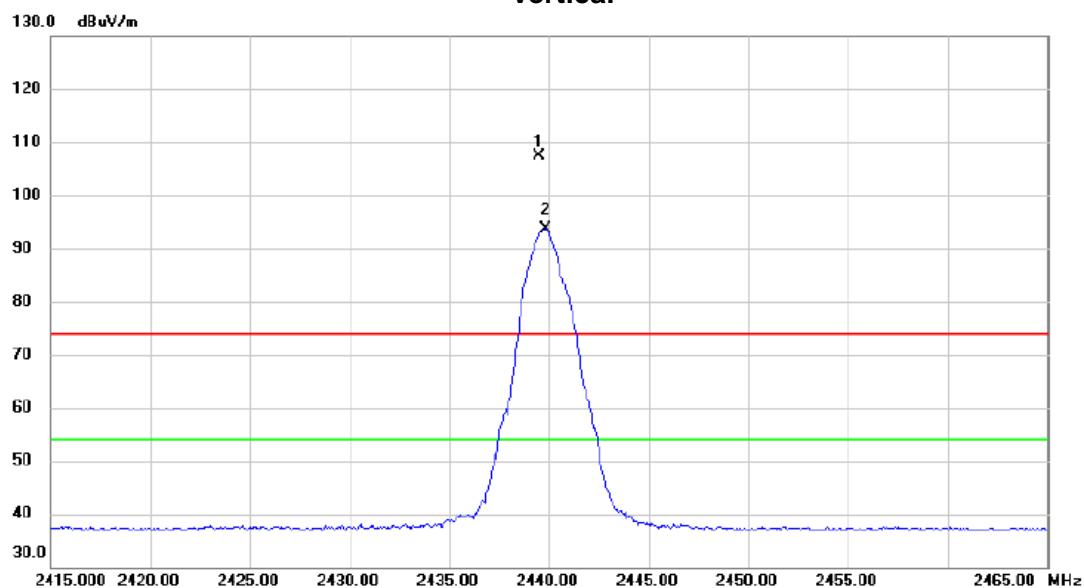
Test Mode : TX 2402 MHz _CH00_2Mbps

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		7204.600	41.67	9.36	51.03	74.00	-22.97	peak
2 *		7204.818	28.59	9.36	37.95	54.00	-16.05	AVG

Test Mode : TX 2440 MHz _CH19_2Mbps

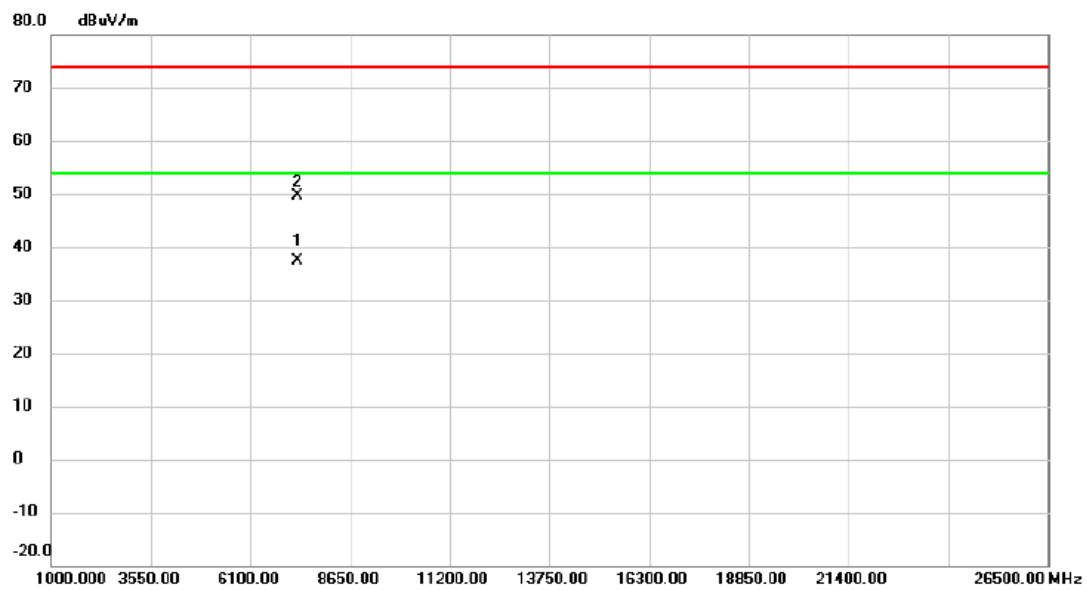
Vertical



No.	Mk.	Reading Level		Correct Factor	Measure-ment	Limit	Margin	
		MHz	dB _{uV}				dB	Detector Comment
1	X	2439.525	100.04	7.34	107.38	74.00	33.38	peak No Limit
2	*	2439.800	86.41	7.34	93.75	54.00	39.75	AVG No Limit

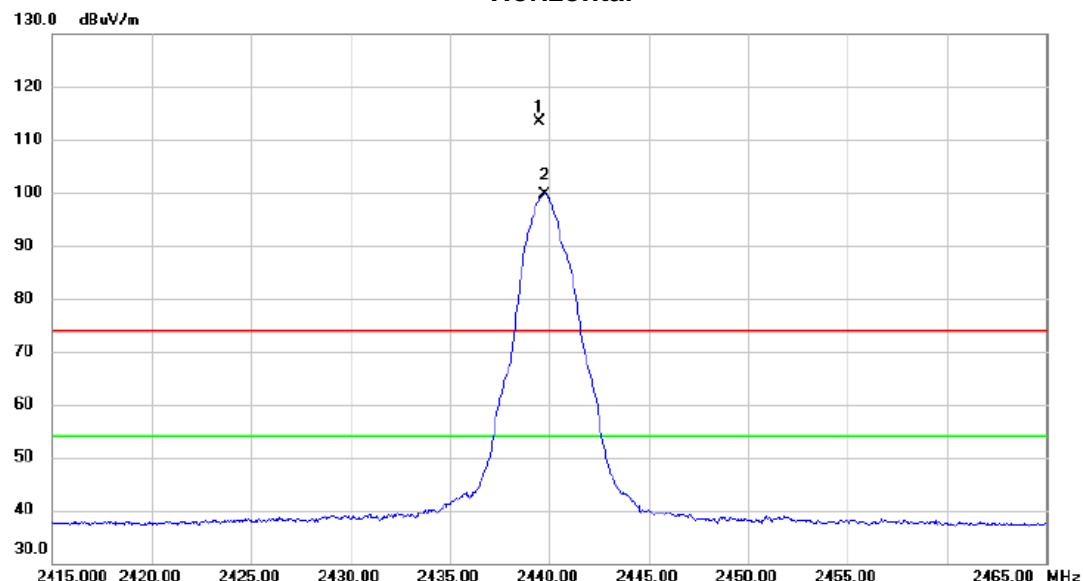
Test Mode : TX 2440 MHz _CH19_2Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1 *		7318.700	27.65	9.62	37.27	54.00	-16.73	AVG
	2	7321.523	40.01	9.64	49.65	74.00	-24.35	peak

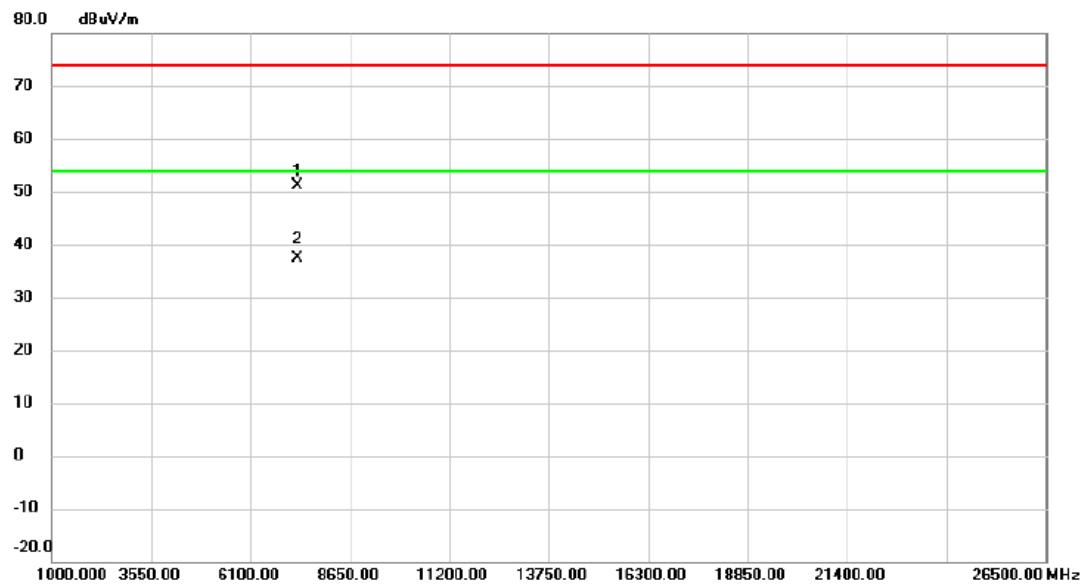
Test Mode : TX 2440 MHz _CH19_2Mbps

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2439.525	106.07	7.34	113.41	74.00	39.41	peak No Limit
2	*	2439.775	92.41	7.34	99.75	54.00	45.75	AVG No Limit

Test Mode : TX 2440 MHz _CH19_2Mbps

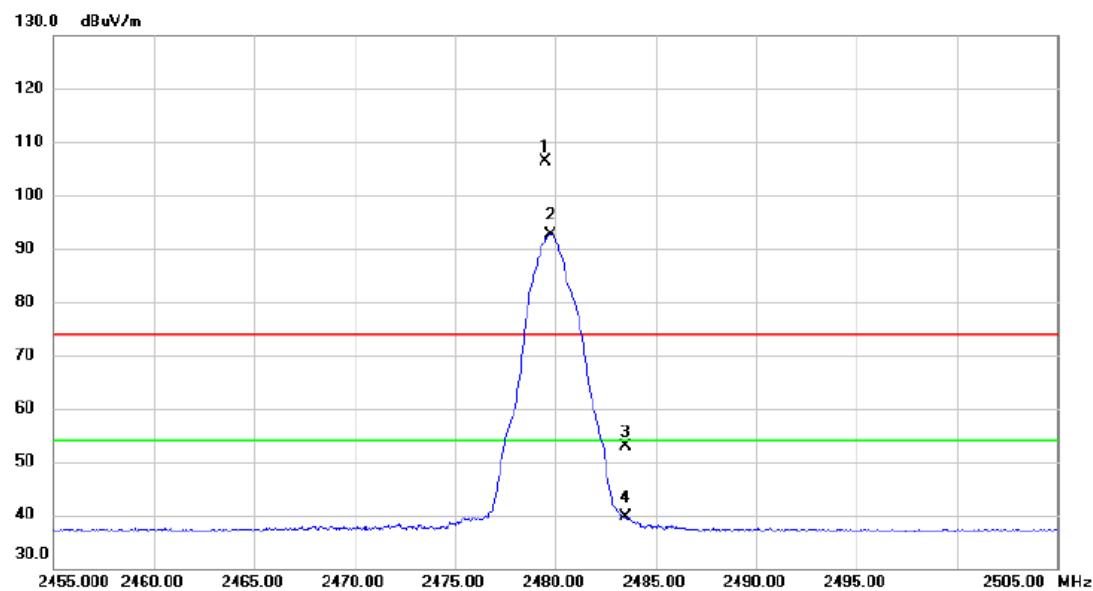
Horizontal



No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
	MHz	dB _{uV}	dB	dB _{uV/m}	dB _{uV/m}	dB	Detector Comment
1	7318.597	41.39	9.62	51.01	74.00	-22.99	peak
2 *	7318.800	27.85	9.62	37.47	54.00	-16.53	AVG

Test Mode : TX 2480 MHz _CH39_2Mbps

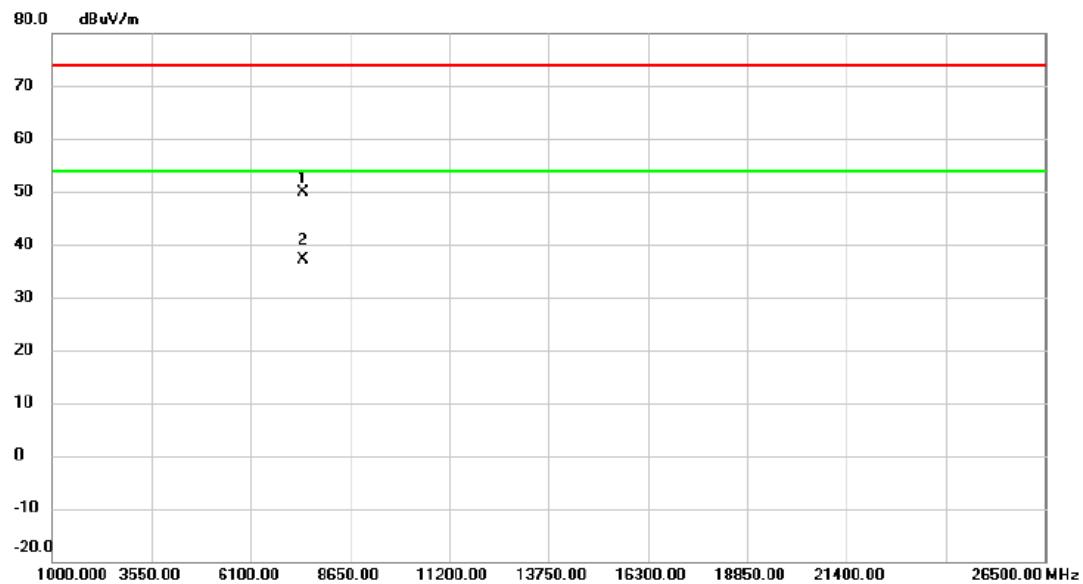
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1	X	2479.525	99.09	7.32	106.41	74.00	32.41	peak	No Limit
2	*	2479.775	85.34	7.32	92.66	54.00	38.66	AVG	No Limit
3		2483.500	45.57	7.32	52.89	74.00	-21.11	peak	
4		2483.500	32.31	7.32	39.63	54.00	-14.37	AVG	

Test Mode : TX 2480 MHz _CH39_2Mbps

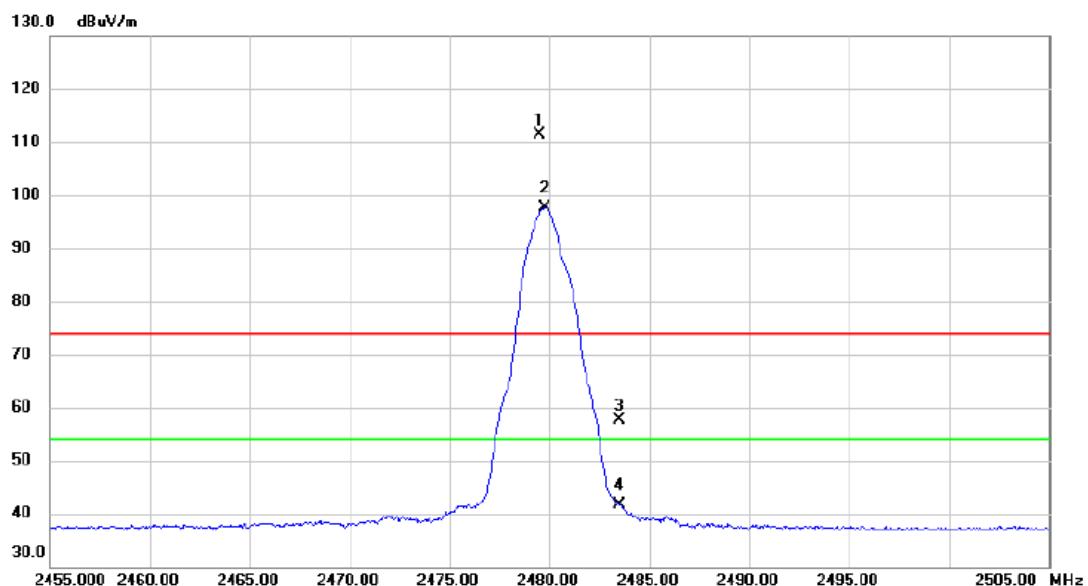
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dB _{uV}	dB	dB _{uV} /m	dB	Detector	Comment
1		7440.038	40.06	9.92	49.98	74.00	-24.02	peak
2 *		7440.177	27.16	9.92	37.08	54.00	-16.92	AVG

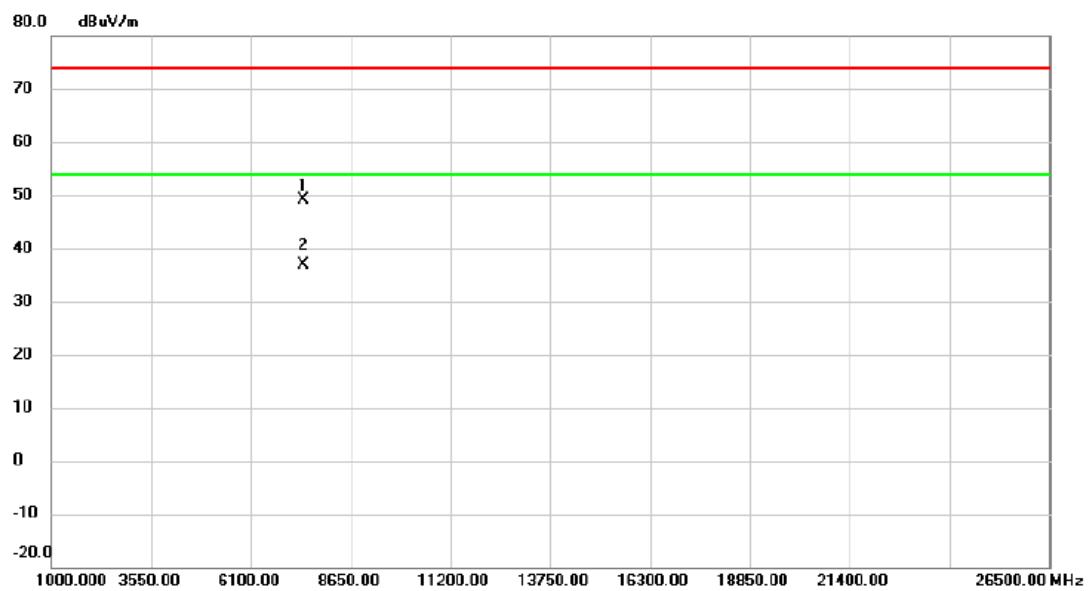
Test Mode : TX 2480 MHz _CH39_2Mbps

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2479.525	104.09	7.32	111.41	74.00	37.41	peak No Limit
2	*	2479.750	90.31	7.32	97.63	54.00	43.63	AVG No Limit
3		2483.500	50.38	7.32	57.70	74.00	-16.30	peak
4		2483.500	34.40	7.32	41.72	54.00	-12.28	AVG

Test Mode : TX 2480 MHz _CH39_2Mbps

Horizontal

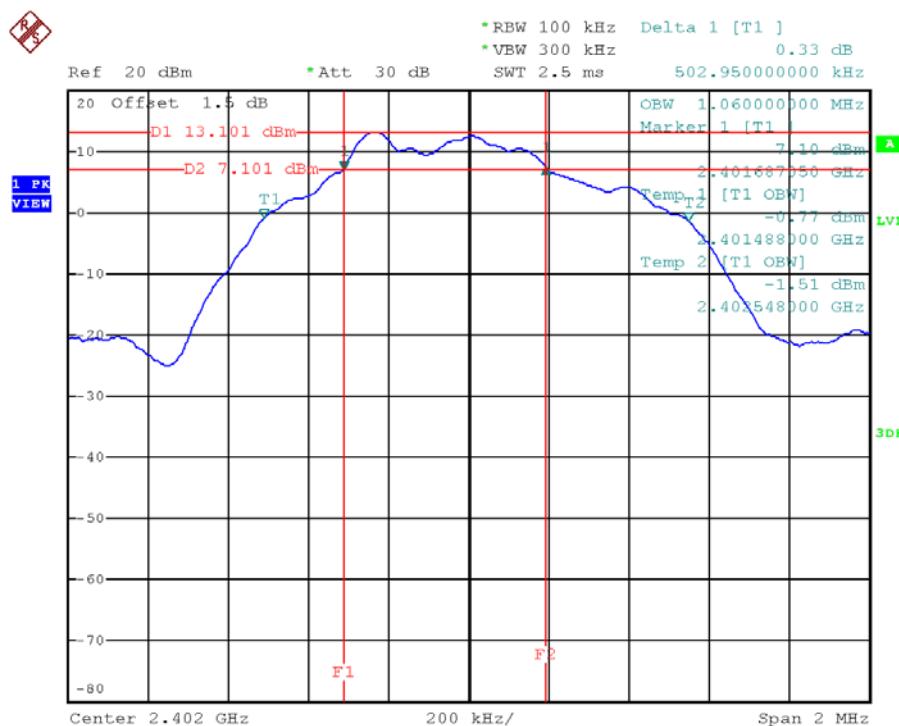
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		7439.813	39.18	9.92	49.10	74.00	-24.90	peak
2 *		7440.092	26.94	9.92	36.86	54.00	-17.14	AVG

APPENDIX E - BANDWIDTH

Test Mode: TX Mode_ 1Mbps

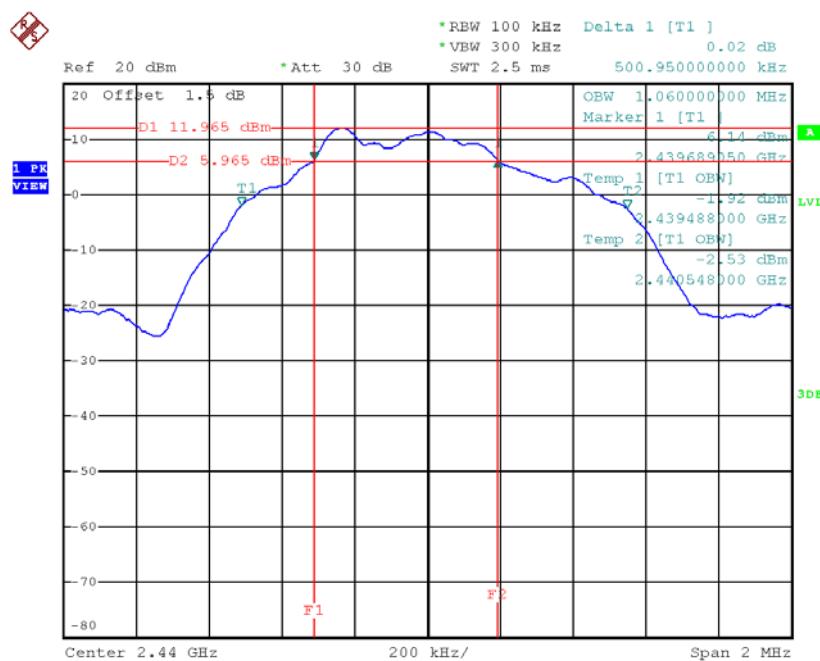
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.503	1.060	500	Pass
2440	0.501	1.060	500	Pass
2480	0.502	1.060	500	Pass

TX CH00



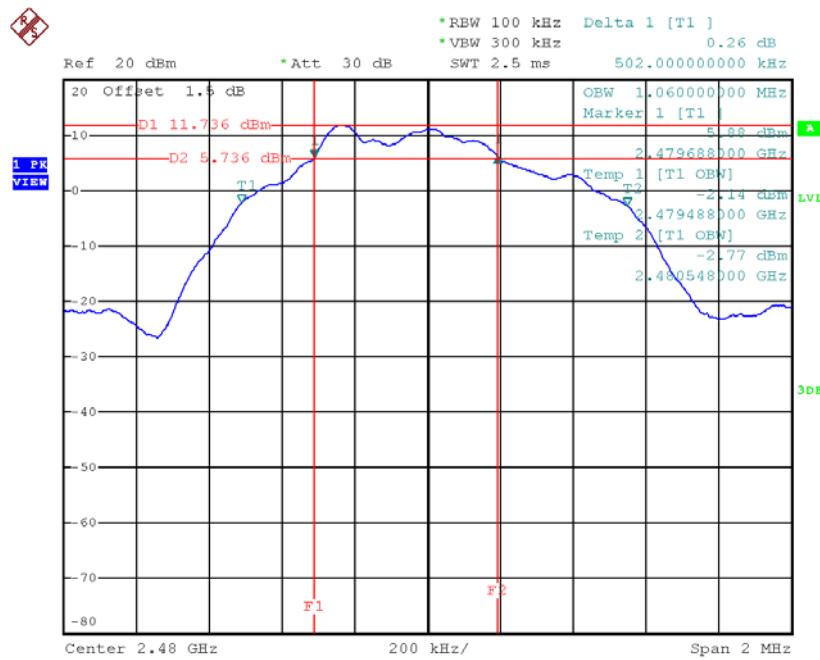
Date: 31.AUG.2018 19:41:38

TX CH19



Date: 31.AUG.2018 19:43:56

TX CH39

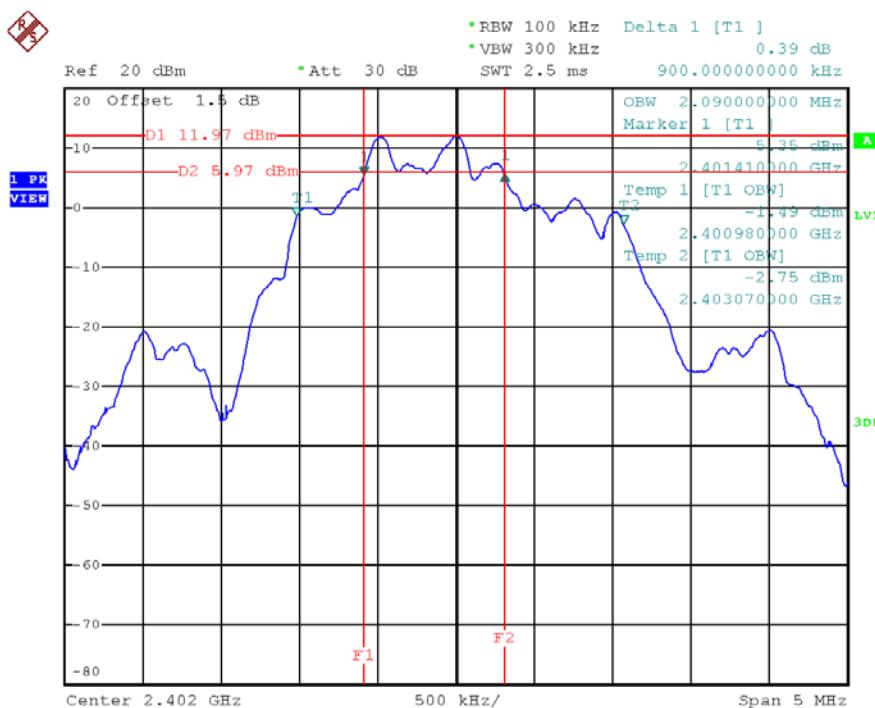


Date: 31.AUG.2018 19:45:47

Test Mode: TX Mode_ 2Mbps

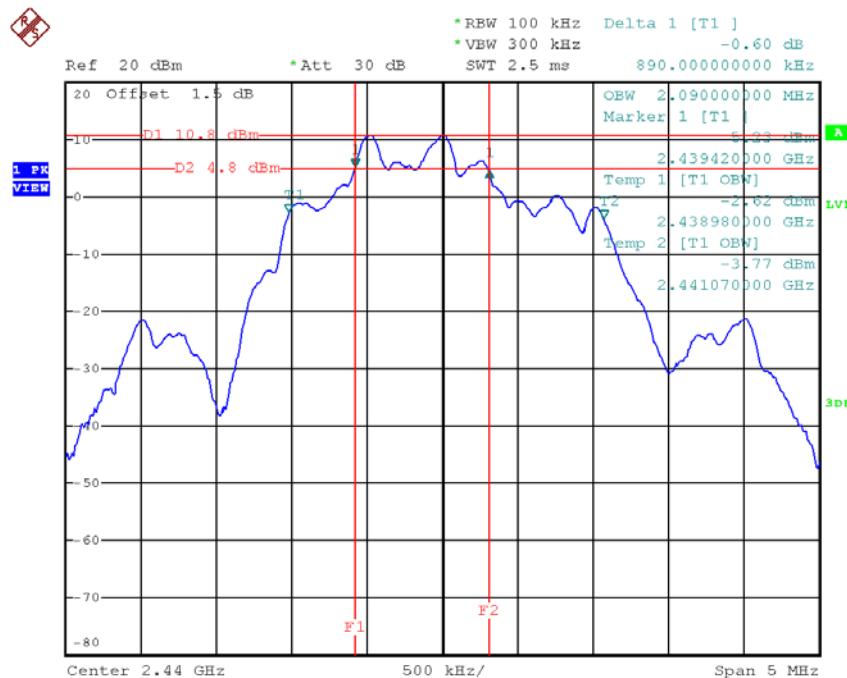
Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.900	2.090	500	Pass
2440	0.890	2.090	500	Pass
2480	0.890	2.090	500	Pass

TX CH00



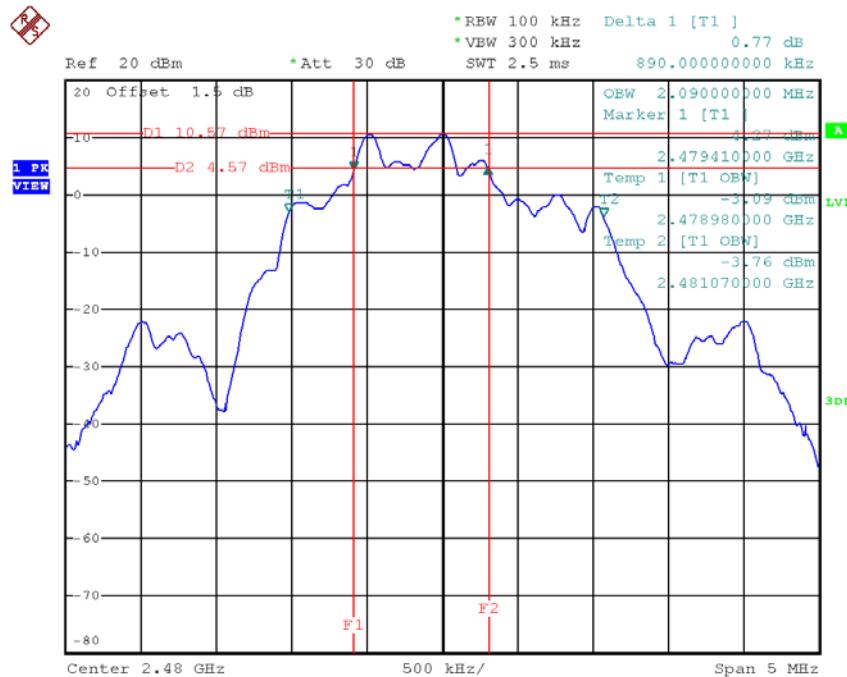
Date: 31.AUG.2018 19:56:35

TX CH19



Date: 31.AUG.2018 19:53:20

TX CH39



Date: 31.AUG.2018 19:50:37

APPENDIX F - MAXIMUM OUTPUT POWER TEST

Test Mode : CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	12.98	0.0199	30.00	1.00	Pass
2440	11.89	0.0155	30.00	1.00	Pass
2480	11.74	0.0149	30.00	1.00	Pass

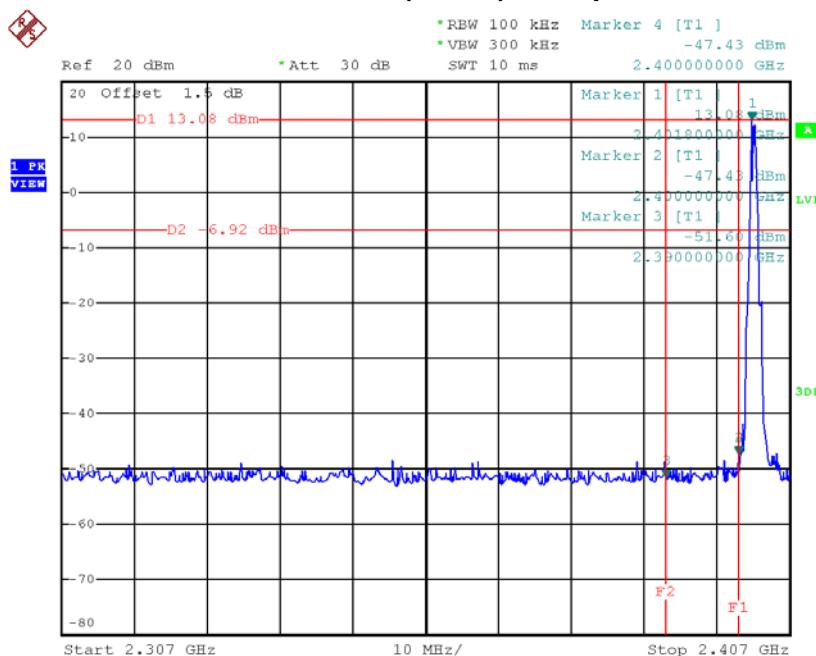
Test Mode : CH00, CH19 , CH39 - 2Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	12.04	0.0160	30.00	1.00	Pass
2440	11.95	0.0157	30.00	1.00	Pass
2480	11.76	0.0150	30.00	1.00	Pass

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

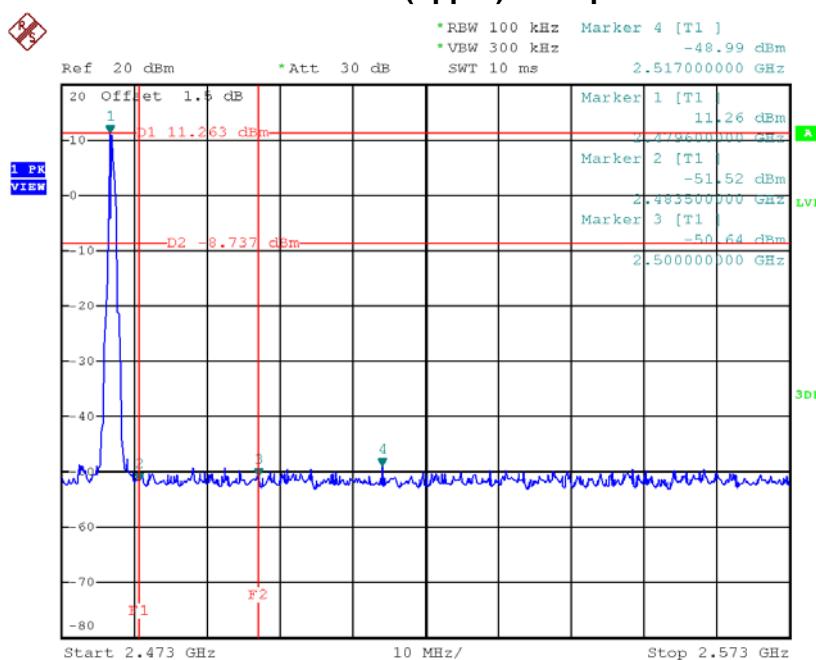
Test Mode : CH00, CH19 , CH39 - 1Mbps

CH00 (Lower) - 1Mbps

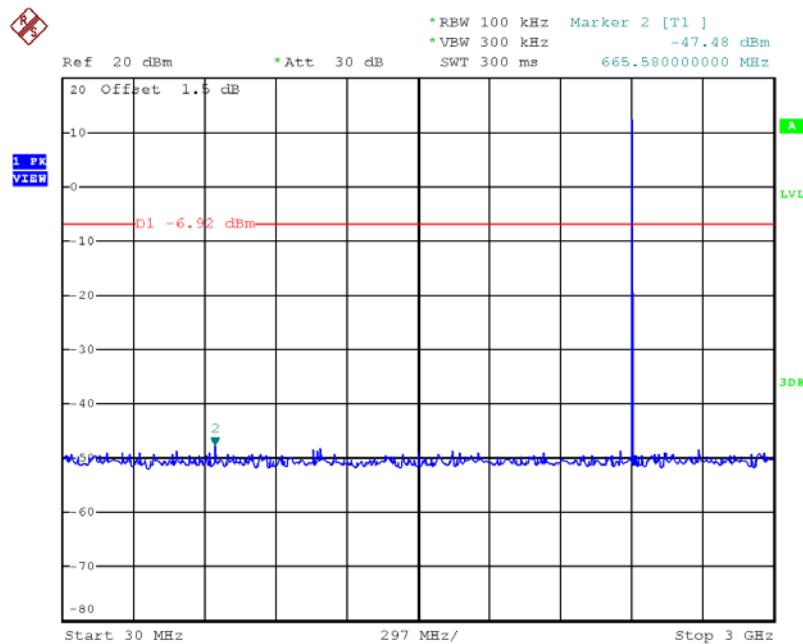


Date: 31.AUG.2018 18:38:56

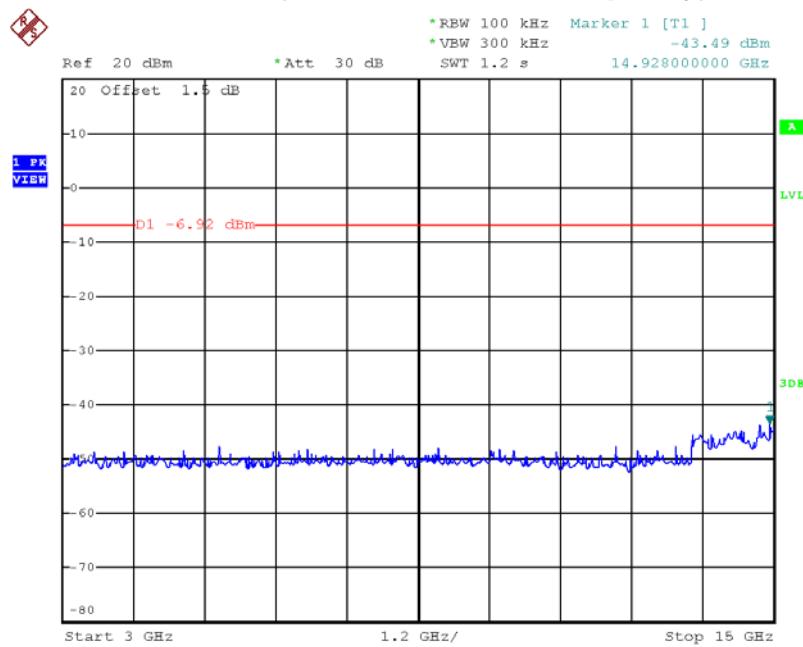
CH39 (upper) - 1Mbps



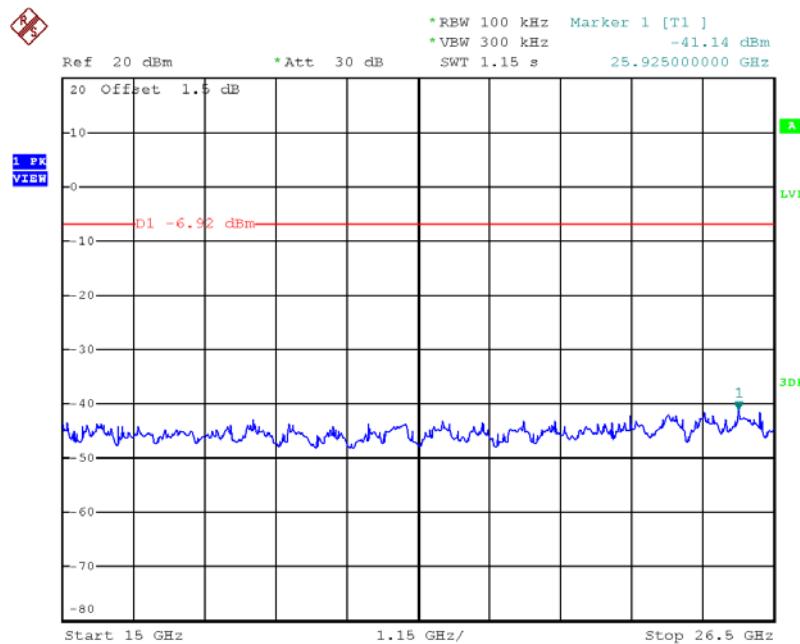
Date: 31.AUG.2018 18:42:20

CH00 (10 Harmonic of the frequency) 1

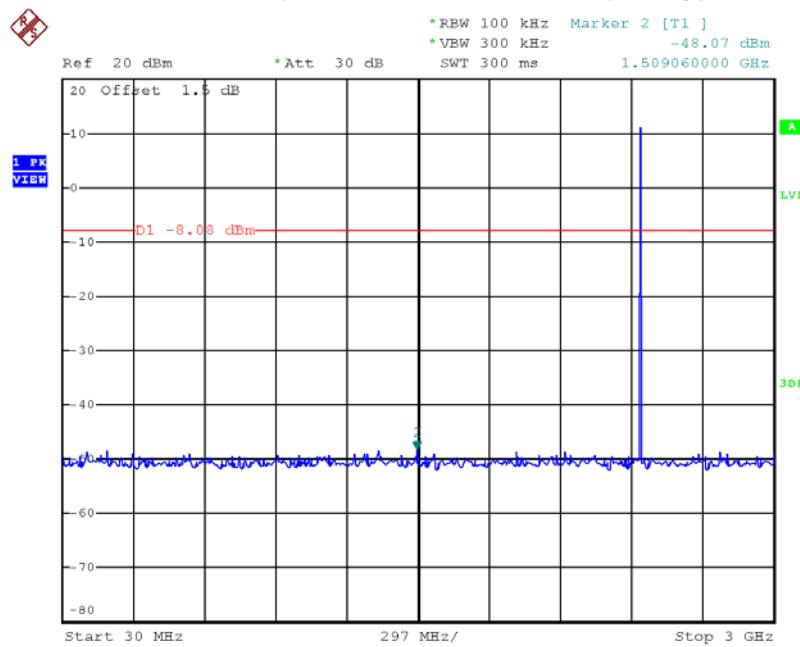
Date: 31.AUG.2018 18:39:10

CH00 (10 Harmonic of the frequency) 2

Date: 31.AUG.2018 18:39:18

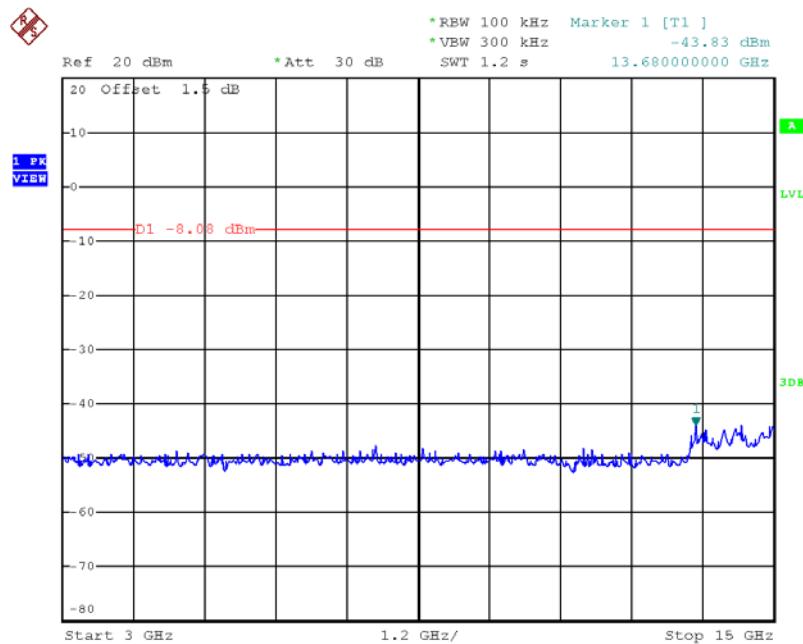
CH00 (10 Harmonic of the frequency) 3

Date: 31.AUG.2018 18:39:26

CH19 (10 Harmonic of the frequency) 1

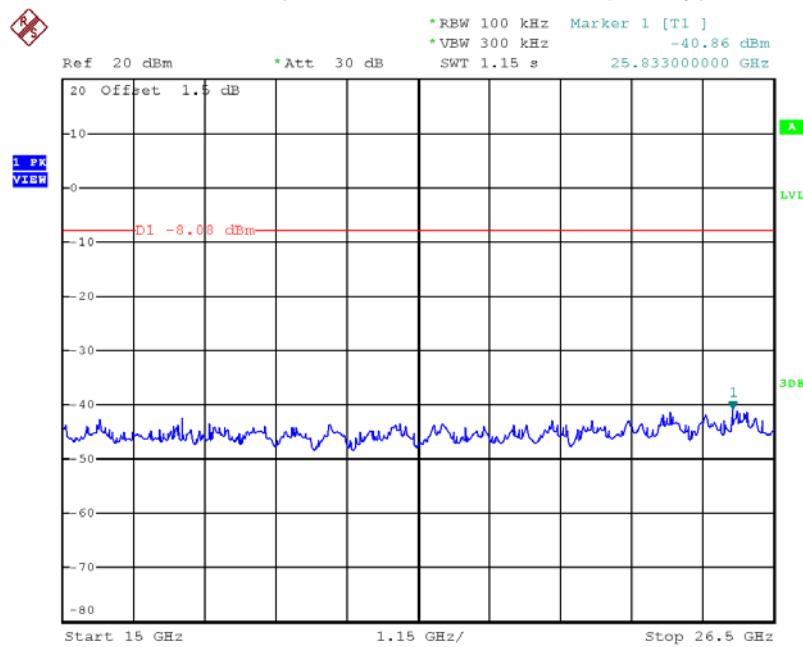
Date: 31.AUG.2018 18:40:59

CH19 (10 Harmonic of the frequency) 2



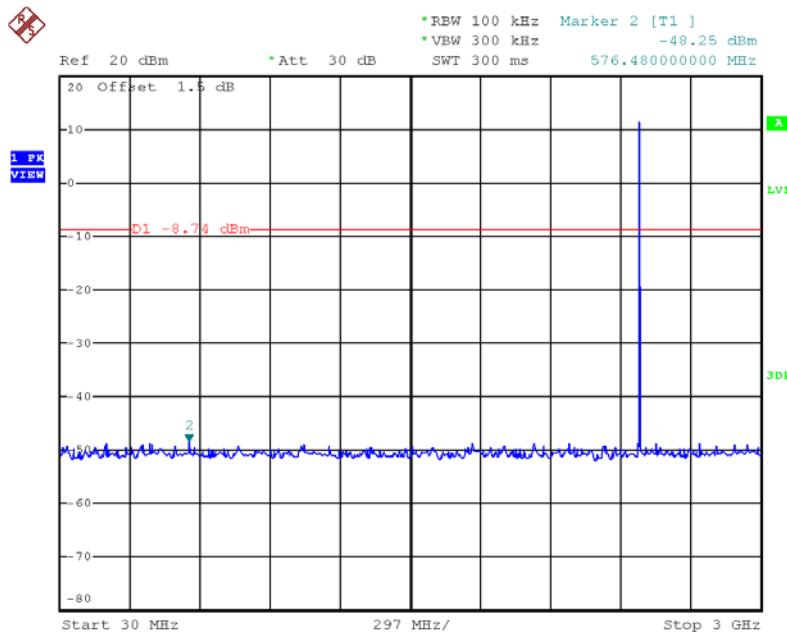
Date: 31.AUG.2018 18:41:07

CH19 (10 Harmonic of the frequency) 3



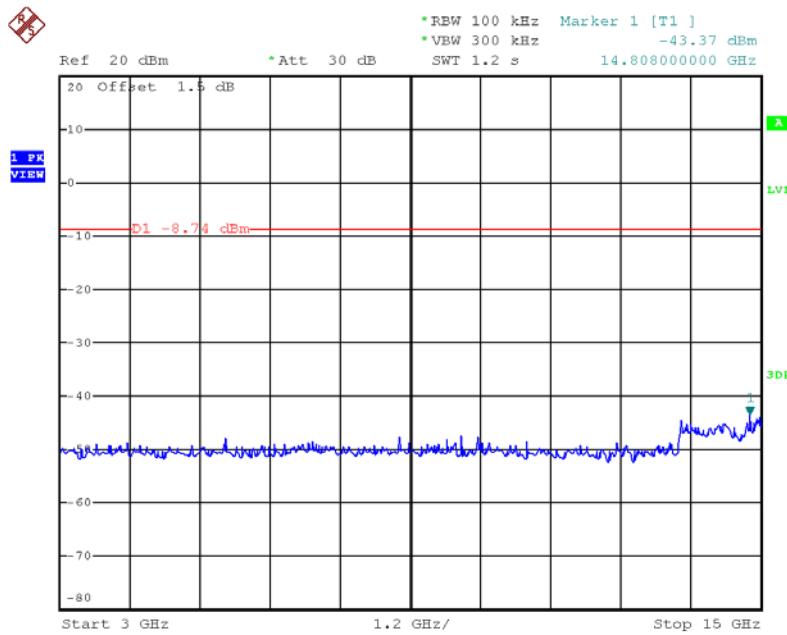
Date: 31.AUG.2018 18:41:15

CH39 (10 Harmonic of the frequency) 1



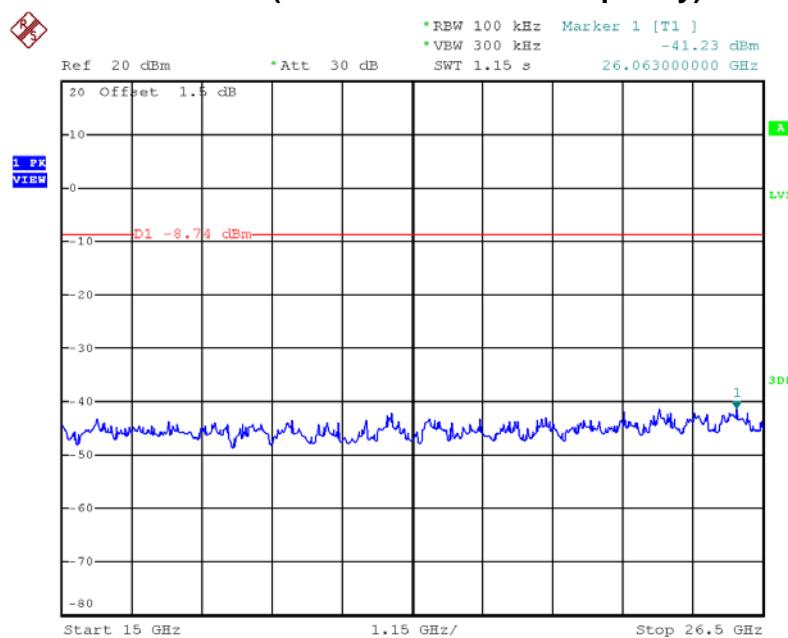
Date: 31.AUG.2018 18:42:33

CH39 (10 Harmonic of the frequency) 2



Date: 31.AUG.2018 18:42:41

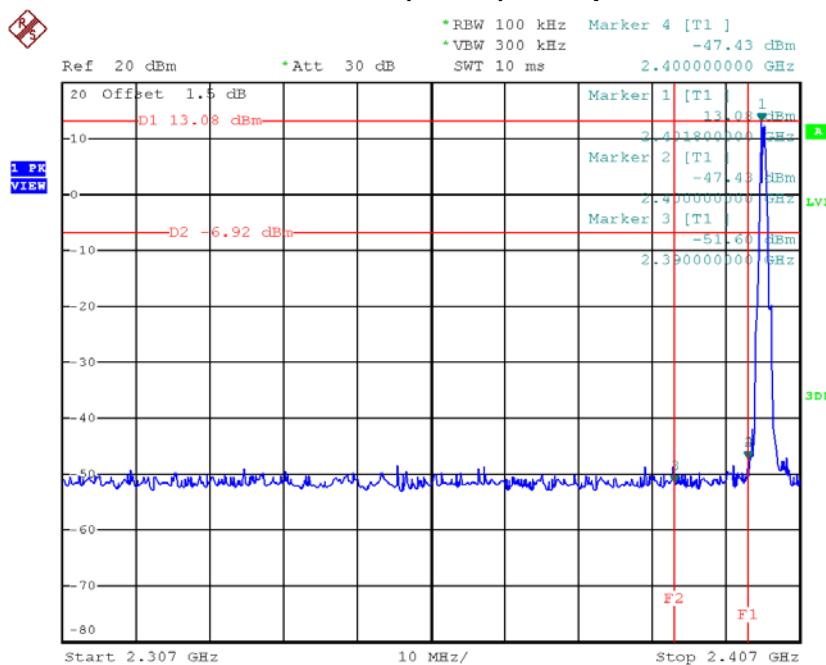
CH39 (10 Harmonic of the frequency) 3



Date: 31.AUG.2018 18:42:49

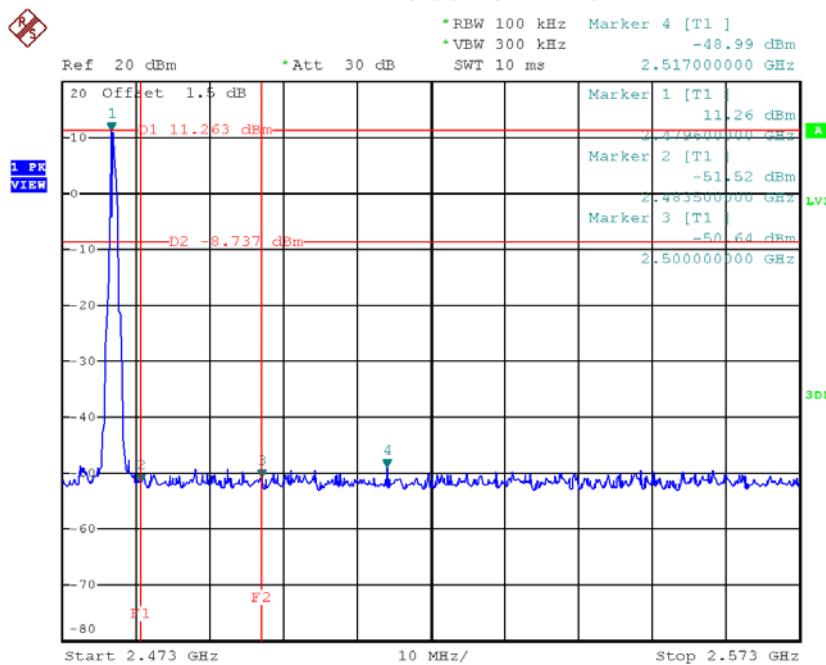
Test Mode : CH00, CH19 , CH39 - 2Mbps

CH00 (Lower) - 1Mbps



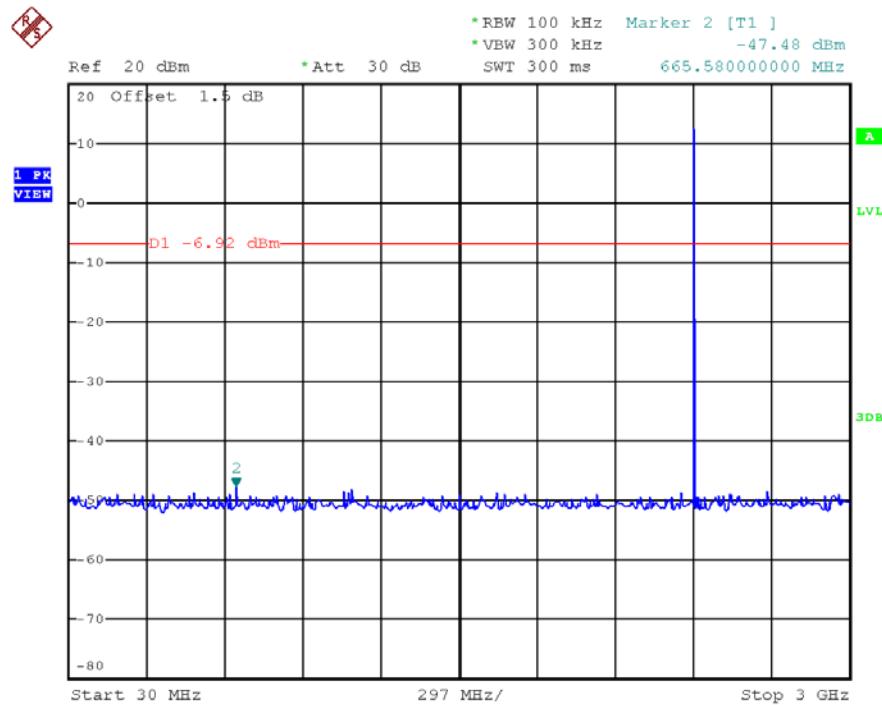
Date: 31.AUG.2018 18:38:56

CH39 (upper) - 1Mbps



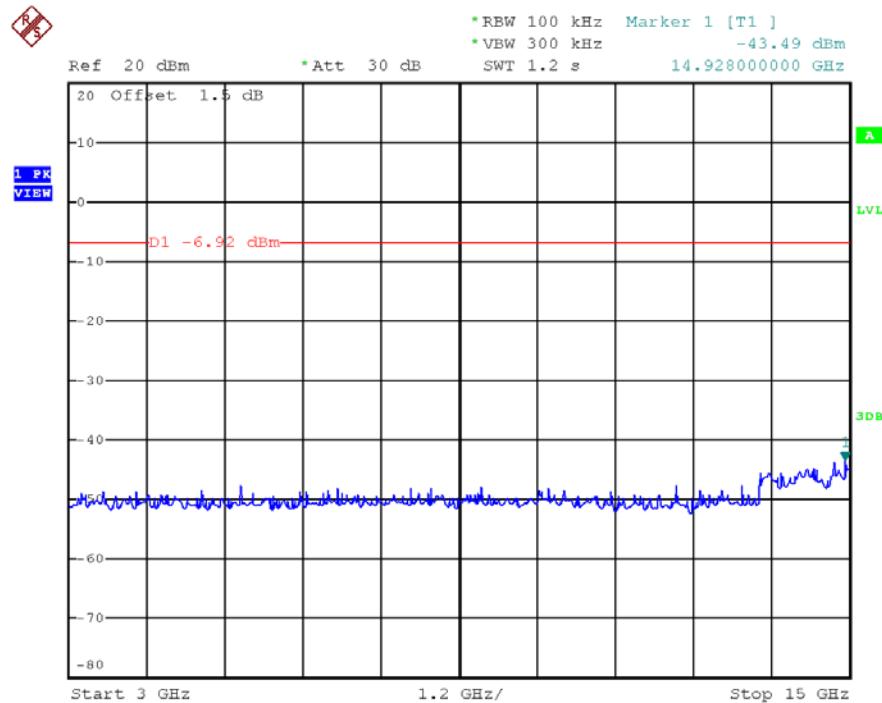
Date: 31.AUG.2018 18:42:20

CH00 (10 Harmonic of the frequency) 1

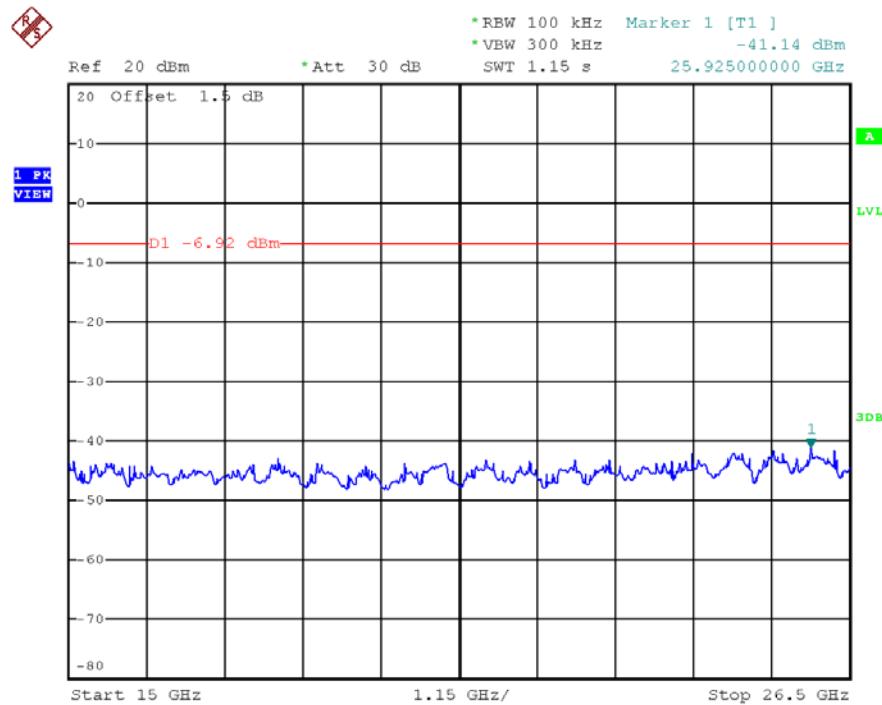


Date: 31.AUG.2018 18:39:10

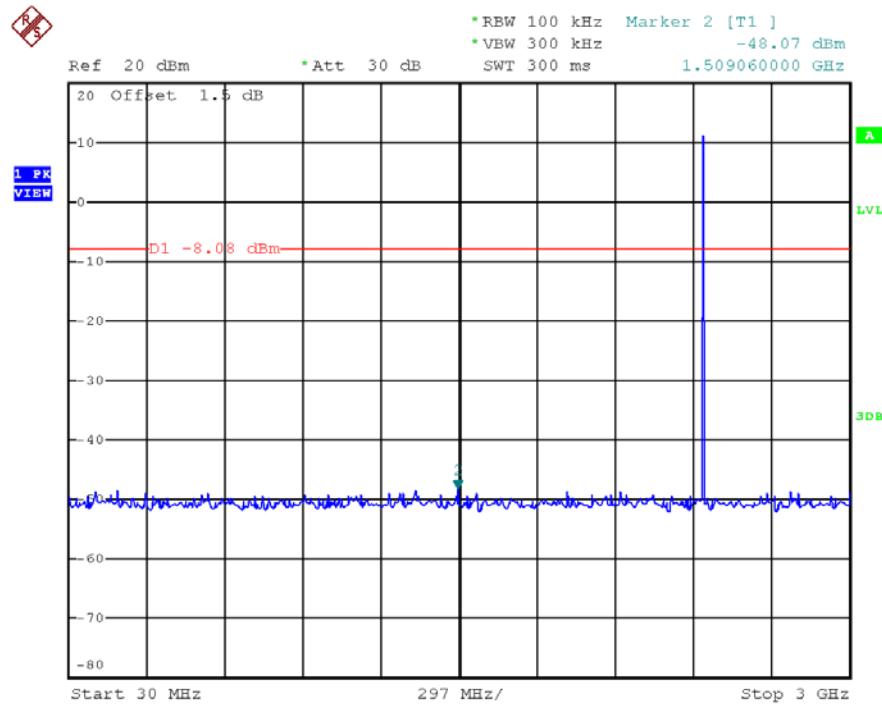
CH00 (10 Harmonic of the frequency) 2



Date: 31.AUG.2018 18:39:18

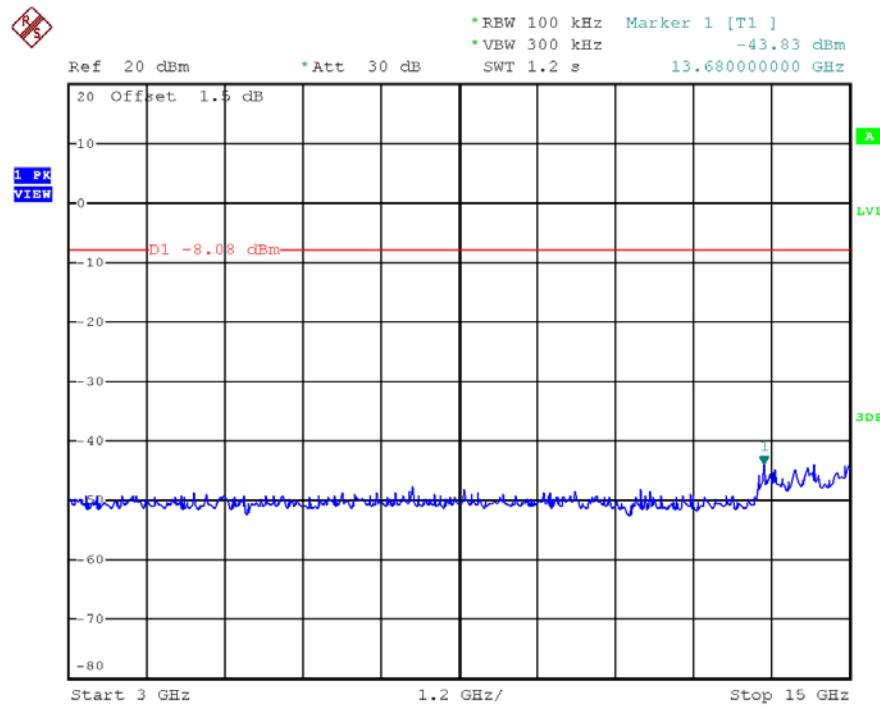
CH00 (10 Harmonic of the frequency) 3

Date: 31.AUG.2018 18:39:26

CH19 (10 Harmonic of the frequency) 1

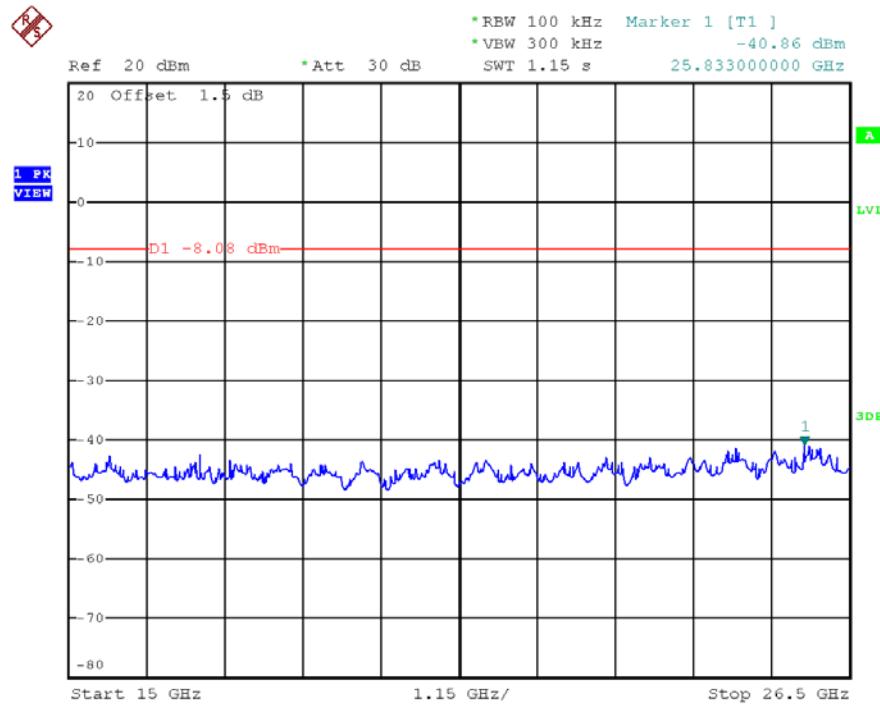
Date: 31.AUG.2018 18:40:59

CH19 (10 Harmonic of the frequency) 2

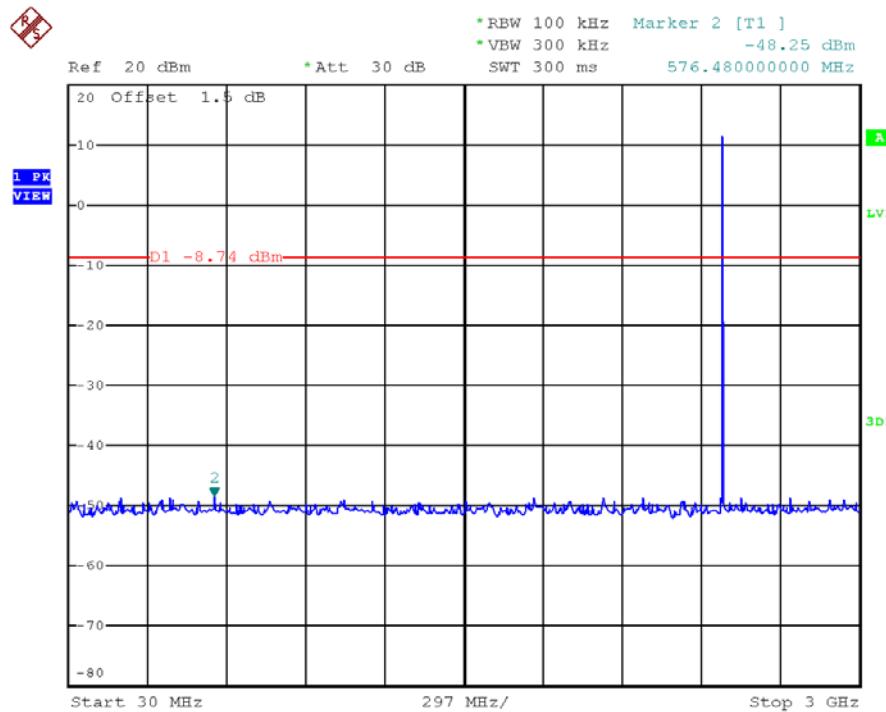


Date: 31.AUG.2018 18:41:07

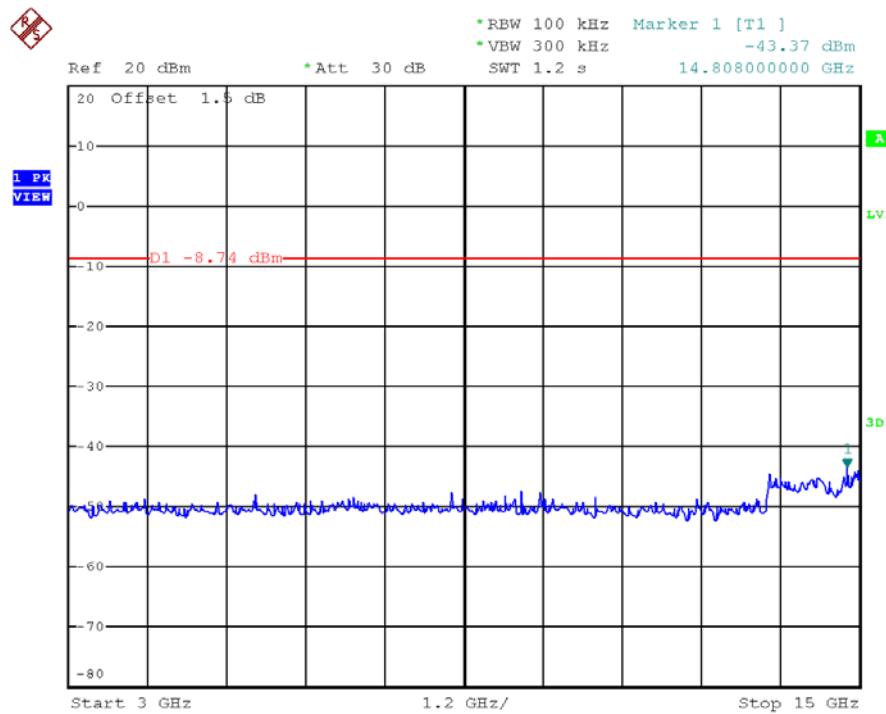
CH19 (10 Harmonic of the frequency) 3



Date: 31.AUG.2018 18:41:15

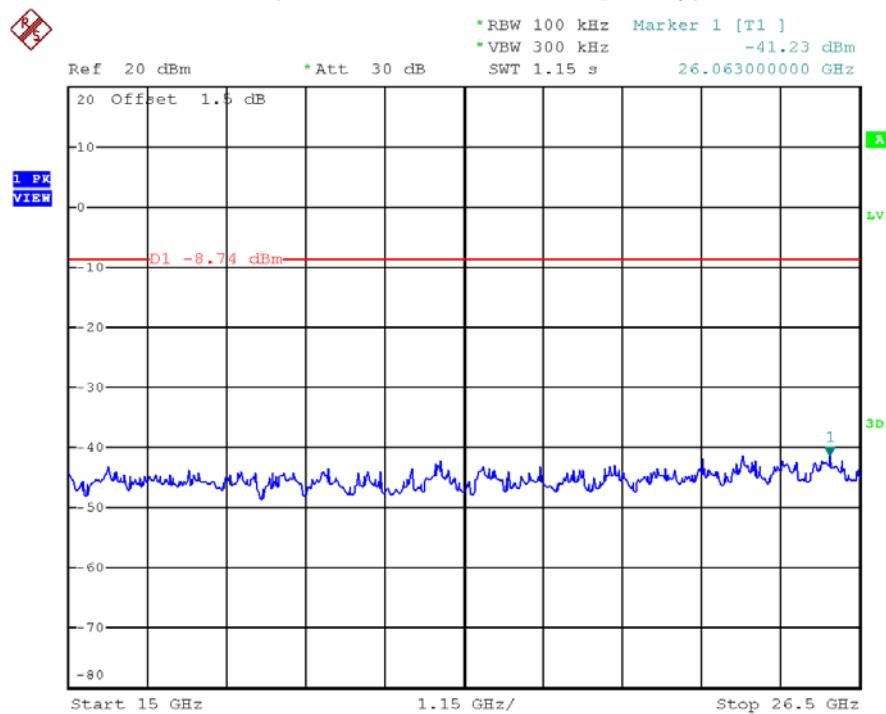
CH39 (10 Harmonic of the frequency) 1

Date: 31.AUG.2018 18:42:33

CH39 (10 Harmonic of the frequency) 2

Date: 31.AUG.2018 18:42:41

CH39 (10 Harmonic of the frequency) 3



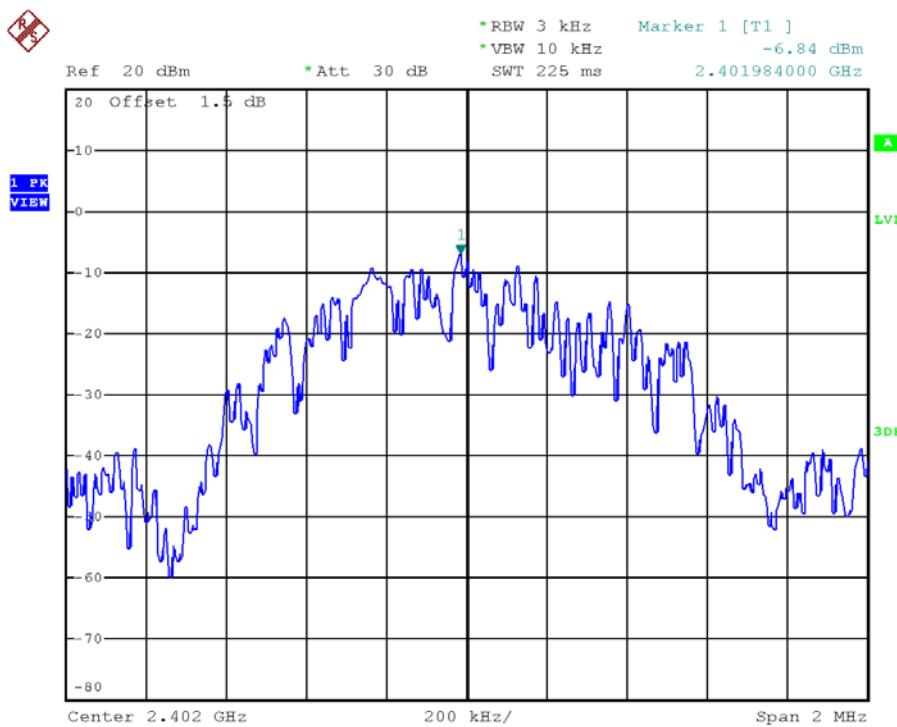
Date: 31.AUG.2018 18:42:49

APPENDIX H - POWER SPECTRAL DENSITY TEST

Test Mode: CH00, CH19 , CH39 - 1Mbps

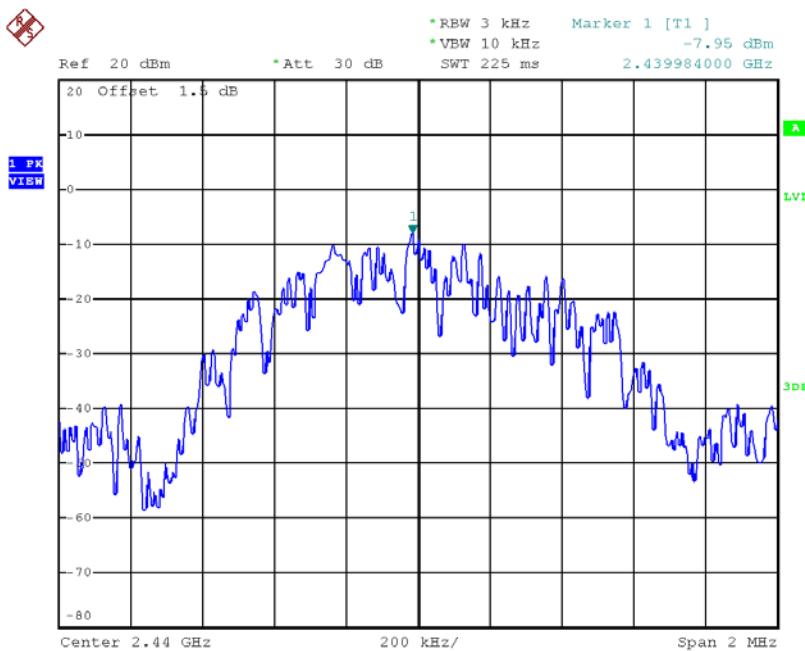
Frequency (MHz)	Power Density (dBm/3 kHz)	Power Density (mW/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
2402	-6.840	0.207	8.00	Pass
2440	-7.950	0.160	8.00	Pass
2480	-8.190	0.152	8.00	Pass

TX CH00



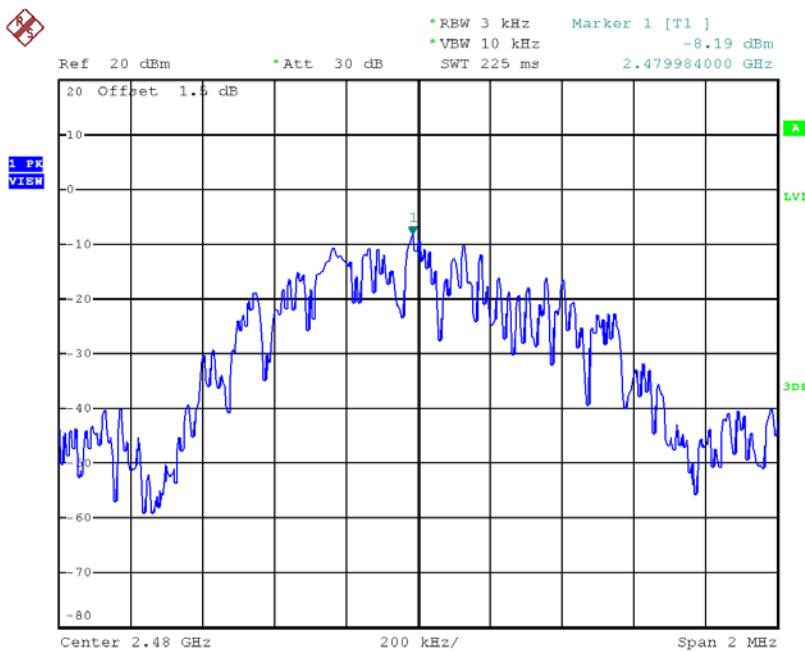
Date: 31.AUG.2018 19:42:13

TX CH19



Date: 31.AUG.2018 19:44:23

TX CH39

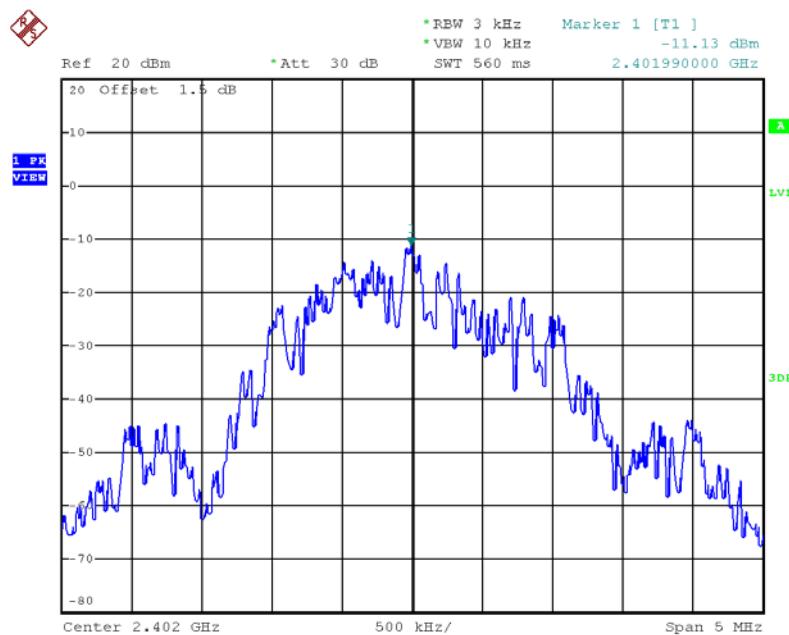


Date: 31.AUG.2018 19:46:14

Test Mode: CH00, CH19 , CH39 - 2Mbps

Frequency (MHz)	Power Density (dBm/3 kHz)	Power Density (mW/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
2402	-11.130	0.077	8.00	Pass
2440	-12.260	0.059	8.00	Pass
2480	-12.480	0.056	8.00	Pass

TX CH00



Date: 31.AUG.2018 19:58:09

TX CH19**TX CH39****End of Test Report**