

FCC PART PART 22/24 TEST REPORT

for

GPS Tracker

Model No.: Yepzon Freedom

FCC ID: 2AENAYPZN02

of

Applicant: **Yepzon Oy**

Address: **Finlaysoninkuja 9, 33210 Tampere Finland**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21611-16408-P-2244

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Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

Certification of Test Report

Applicant : Yepzon Oy
Finlaysoninkuja 9 33210 Tampere Finland

Manufacturer : VVDN Technologies Pvt. Ltd
B-22,Infocity Sector-34, Gurgaon-122001, Haryana,India

Tested Equipment :

Type Description	: GPS Tracker
Model Number	: Yepzon Freedom
Brand Name	: ./.
Operation Frequency	: Band 850 MHz: 824.2-848.8 MHz Band 1900 MHz: 1850.2-1909.8 MHz Band II: 1852.4-1907.6 MHz Band V: 826.4-846.6 MHz
RF Output Power:	: Band 850 MHz: 29.38 dBm (ERP) Band 1900 MHz: 26.25 dBm (EIRP) Band II: 20.25 dBm (EIRP) Band V: 12.19 dBm (ERP)
Power Supply	: Adaptor (I/P: 100-240V~50/60Hz, 0.2A; O/P: 5V, 1000mA) Battery: 3.7V, 450mAh

Regulation Applied : 47CFR Part 22 (2015-10) and Part 24 (2015-10)

Test Method : 47CFR Part 2 (2015), TIA/EIA-603C (2010) and ANSI C63.4 (2014)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2015), TIA/EIA-603C (2010), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22/24.

Note:

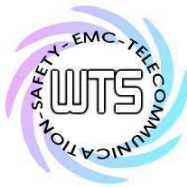
1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

January 04, 2017	Mark Cheng		
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

January 04, 2017	Kevin Wang		
Date	WTS	Name	Signature



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Appendix



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1. Summary

1.1 Description of tested equipment

This equipment under tested, Yepzon Freedom, is a GPS Tracker.

The operation frequency bands and rated RF output power are listed as follows:

824.2-848.8 MHz (Cellular, Part 22), 29.38 dBm / 0.8670 W (ERP)

1850.2-1909.8 MHz (Cellular, Part 24), 26.25 dBm / 0.4217 W (EIRP)

Band II (Cellular, Part 24), 20.25 dBm / 0.1059 W (EIRP)

Band V (Cellular, Part 22), 12.19 dBm / 0.0166 W (ERP)

This test report only contains test requirements specified in 47CFR Part 22 and Part 24 for GSM function; please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Test sample received: November 22, 2016

Test finished: January 04, 2017

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **FCC Part 2(2015), TIA/EIA-603C (2010), ANSI C63.4 (2014)
47CFR Part 22 (2015-10), and Part 24 (2015-10)**

Deviation from test standard: None



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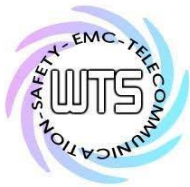
1.5 Summary of test result

Band: 850 MHz

Section in this Report	Test Item	FCC relevant Section	Verdict
3.2	RF Power Output (Effective radiated power)	2.1046(a), 22.913(a)	Pass
4.2	Modulation characteristics	2.1047	Not Required
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	22.917(a), 2.1051	Pass
7.2	Field strength of spurious radiation	22.917(a), 2.1053	Pass
7.5	Band Edge emissions	22.917(a)	Pass
8.2	Frequency stability	2.1055 22.355	Pass

Band: 1900 MHz

Section in this Report	Test Item	FCC Relevant Section	Verdict
3.2	RF Power Output (Equivalent isotropically radiated power)	2.1046(a), 24.232	Pass
4.2	Modulation characteristics	2.1047	Not Required
5.2	Occupied bandwidth	2.1049(h) 24.238(b)	Pass
6.2	Spurious emissions at antenna terminals	24.238(a), 2.1051	Pass
7.2	Field strength of spurious radiation	24.238(a), 2.1053	Pass
7.5	Band Edge emissions	24.238(b)	Pass
8.2	Frequency stability	2.1055 24.235	Pass



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2. General Information

2.1 Testing laboratory

2.1.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)
Company
Worldwide Testing Services (Taiwan) Co., Ltd.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

2.1.2 Details of accreditation status

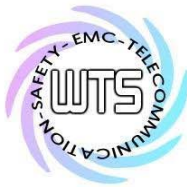
Accredited testing laboratory
A2LA-registration number: 2732.01
FCC filed test laboratory Reg. No. 930600
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

2.1.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

Name: ./.
Accredited number: ./.
Street: ./.
Town: ./.
Country: ./.
Telephone: ./.
Fax: ./.

2.2 Details of approval holder

Name: Yepzon Oy
Street: Finlaysoninkuja 9
Town: 33210 Tampere
Country: Finland
Telephone: +35850486917
Fax: ./.



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Manufacturer: (if different from applicant)

Name: VVDN Technologies Pvt. Ltd
Street: B-22, Infocity Sector-34,
Town: Gurgaon-122001, Haryana,
Country: India

2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					

Frequencies Selected to be investigated:

Band: 850 MHz

Low Frequency (ch 128): 824.2 MHz
Mid Frequency (ch 188): 836.2 MHz
High Frequency (ch 251): 848.8 MHz

Band: 1900 MHz

Low Frequency (ch 512): 1850.2 MHz
Mid Frequency (ch 661): 1880.0 MHz
High Frequency (ch 810): 1909.8 MHz

WCDMA Band II

Low Frequency (ch 9262): 1852.4 MHz
Mid Frequency (ch 9400): 1880.0 MHz
High Frequency (ch 9538): 1907.6 MHz

WCDMA Band V

Low Frequency (ch 4132): 826.4 MHz
Mid Frequency (ch 4183): 836.6 MHz
High Frequency (ch 4233): 846.6 MHz

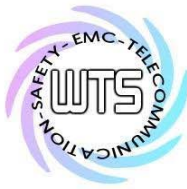
Antenna Type: Armata 3G FPC Antenna

Antenna Gain: Band 850 MHz & Band V: 2.46 dBi
Band 1900 MHz & Band II: 4.06 dBi

Power supply: Adaptor (I/P: 100-240V~50/60Hz, 0.2A; O/P: 5V, 1000mA)
Battery: 3.7V, 450mA

2.4 Test environment

Temperature: 27 °C
Relative humidity content: 54 %
Air pressure: 86-103 Kpa



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2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed.

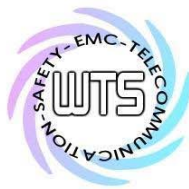
For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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2.6 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2016/5/20	2017/5/19
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2016/7/15	2017/7/14
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2016/9/12	2017/9/11
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2016/8/26	2017/8/25
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2016/5/20	2017/5/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2016/5/25	2017/5/24
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2016/7/4	2017/7/3
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2016/6/24	2017/6/23
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2016/6/29	2017/6/28
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2016/3/23	2017/3/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2016/1/25	2017/1/24
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2016/3/28	2017/3/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2016/4/14	2017/4/13
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2016/2/27	2017/2/26
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2016/2/25	2017/2/24
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2016/4/13	2017/4/12
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2016/9/8	2017/9/7
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2016/9/20	2017/9/19
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2016/1/13	2017/1/12
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2016/5/23	2017/5/22

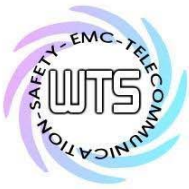


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ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2016/2/25	2017/2/24
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2016/4/13	2017/4/12
ETSTW-RE 143	Humidity Temperature Meter	TES-1260	110104623	TES	2016/8/19	2017/8/18
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2016/3/31	2017/3/30
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2016/5/4	2017/5/3
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2016/3/4	2017/3/3
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2016/2/3	2017/2/2
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2016/9/14	2017/9/13
ETSTW-Cable 010	BNC Cable	RGS-142	None	THERMAX	2016/9/12	2017/9/11
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 012	BNC Cable	RGS-400	None	THERMAX	2016/9/12	2017/9/11
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2016/4/22	2017/4/21
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2016/4/7	2017/4/6
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2016/5/13	2017/5/12
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2016/4/7	2017/4/6
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2016/4/13	2017/4/12



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ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2016/9/12	2017/9/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMCC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	

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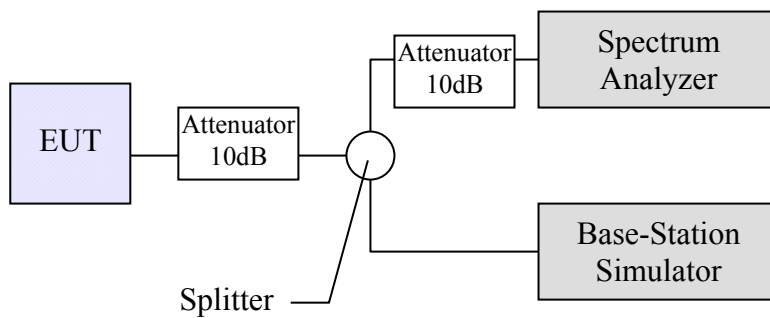
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link form simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance the following settings:

RBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assign the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low, middle and high channels) and operation mode selected.

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3.1.2 Radiated Method

If the conducted measurement is not practical due to the integral antenna, the radiated measurement will be performed in accordance the following procedure:

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site.

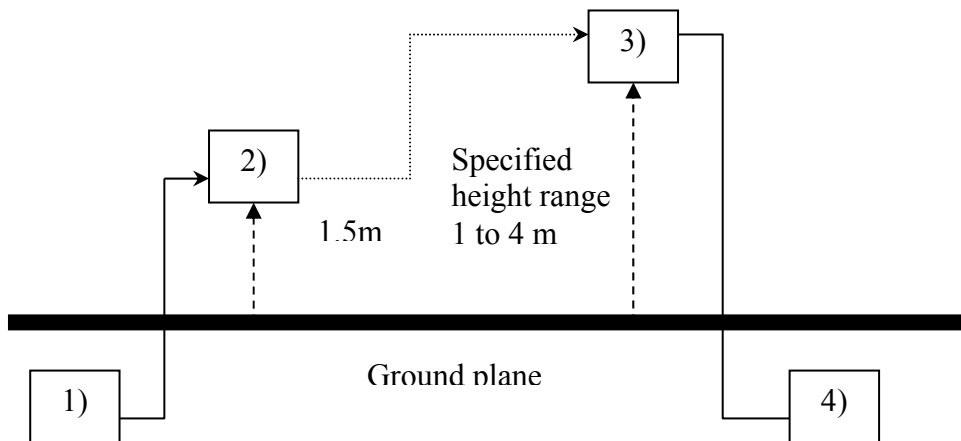
The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS Taiwan
 General:

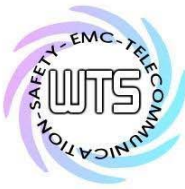
The applied substitution method follows ANSI/TIA/EIA-603,ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator;
- 2) Substitution antenna;
- 3) Test antenna;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.



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The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration:

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in

consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.



Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

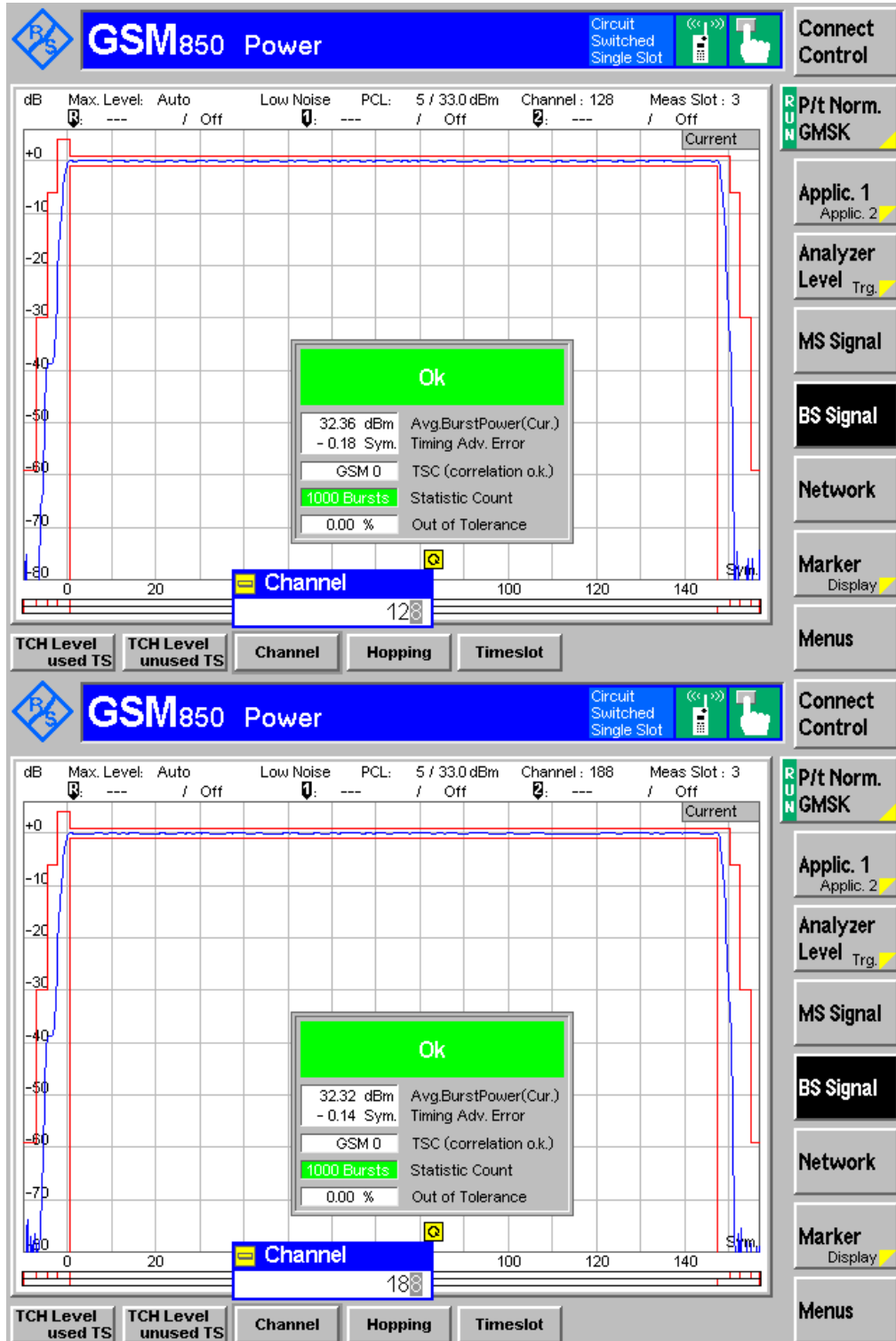
3.2 Test Results

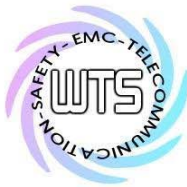
Conducted Measurement

Radiated Measurement

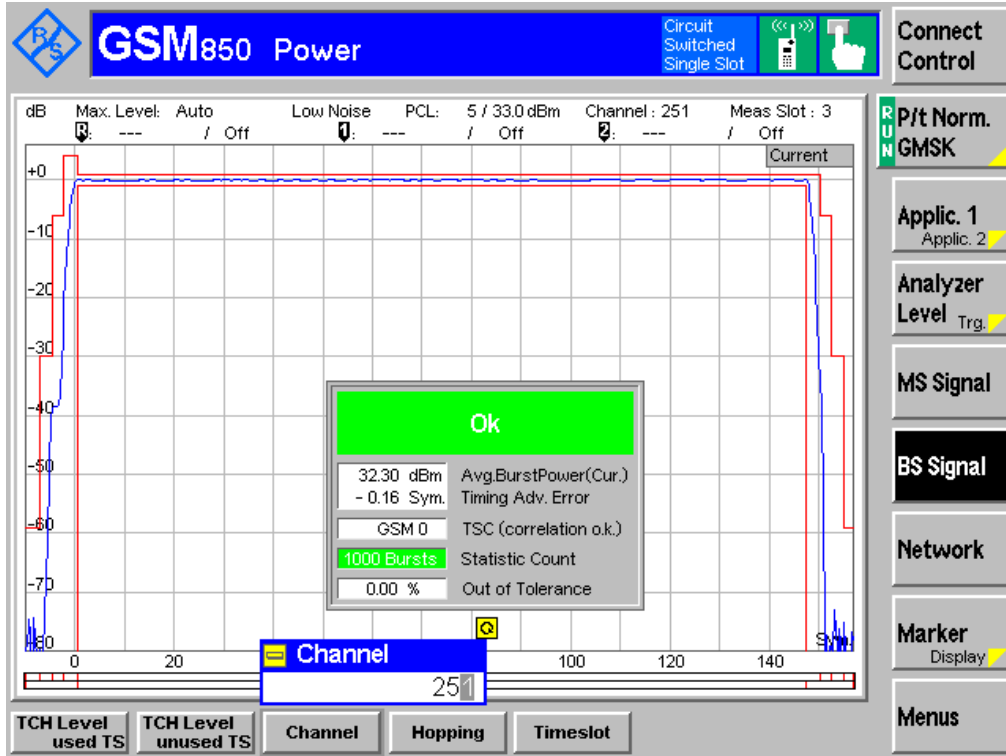
Band 850 MHz

4.07 V

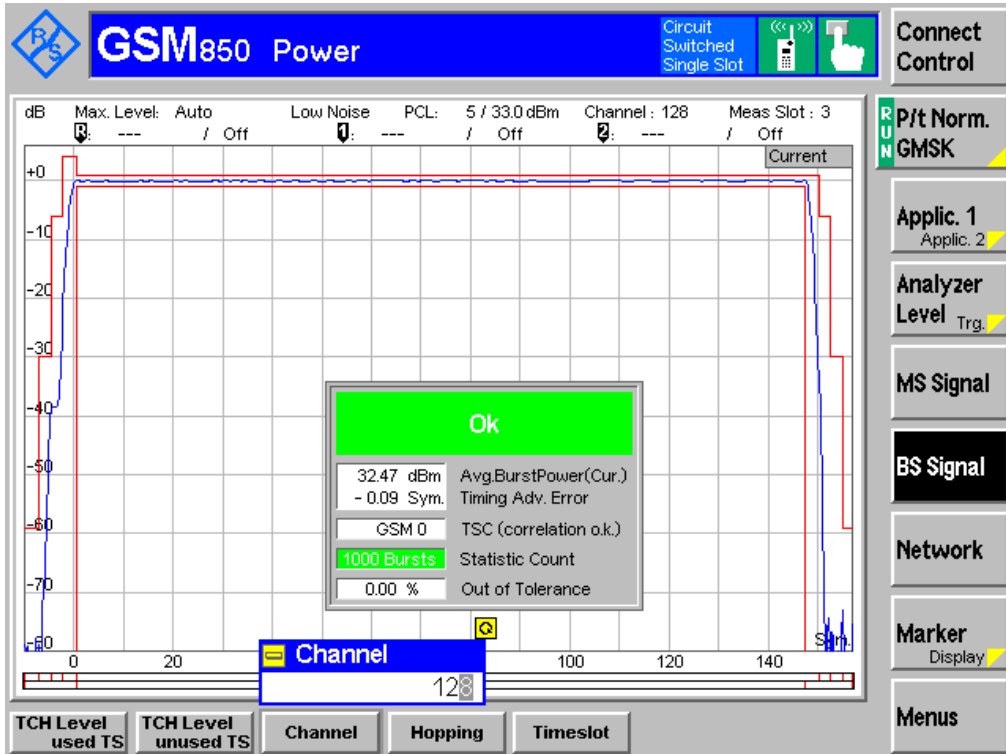


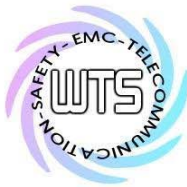


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

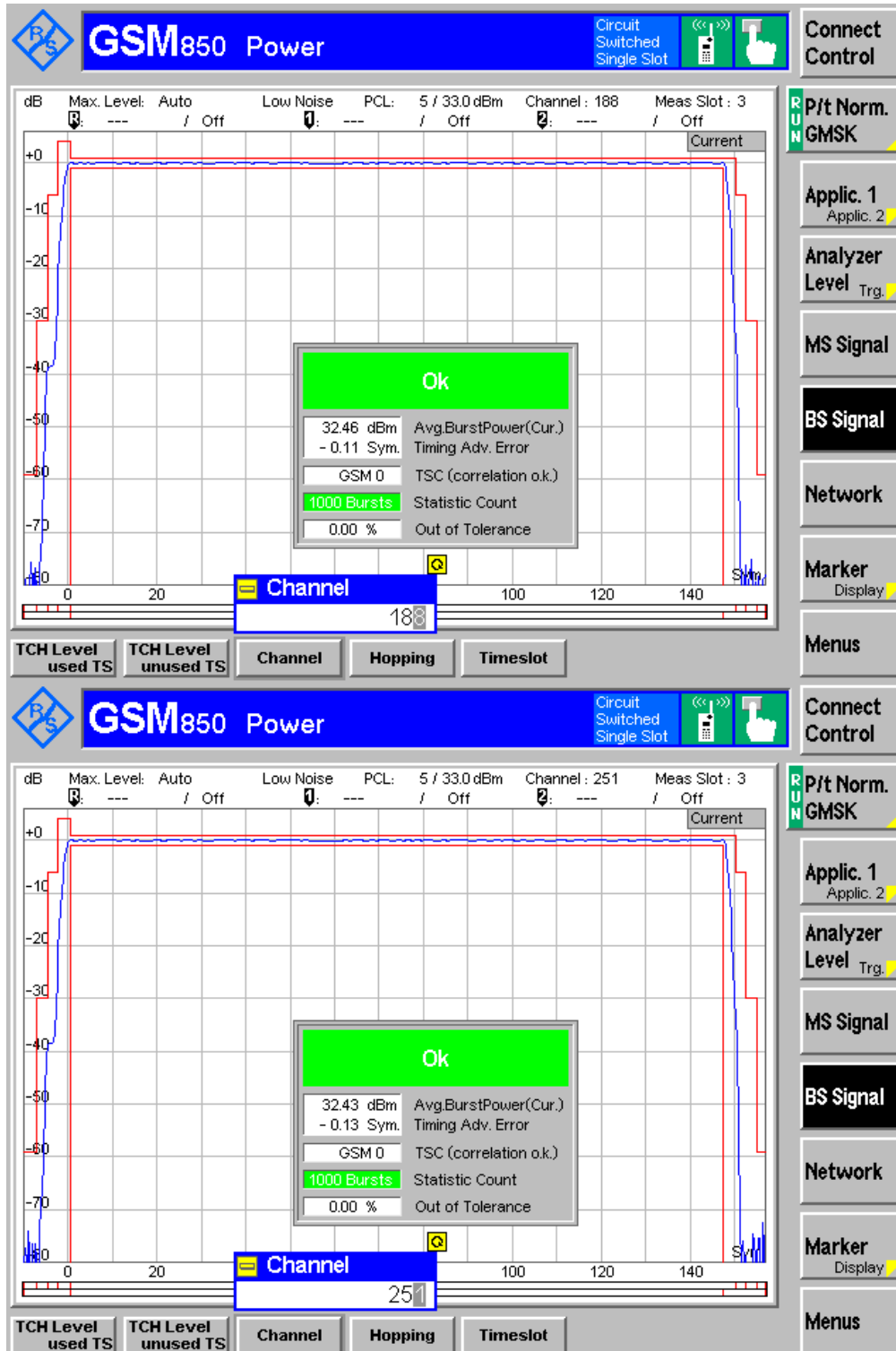


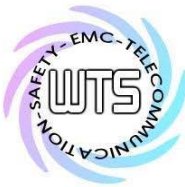
3.33 V





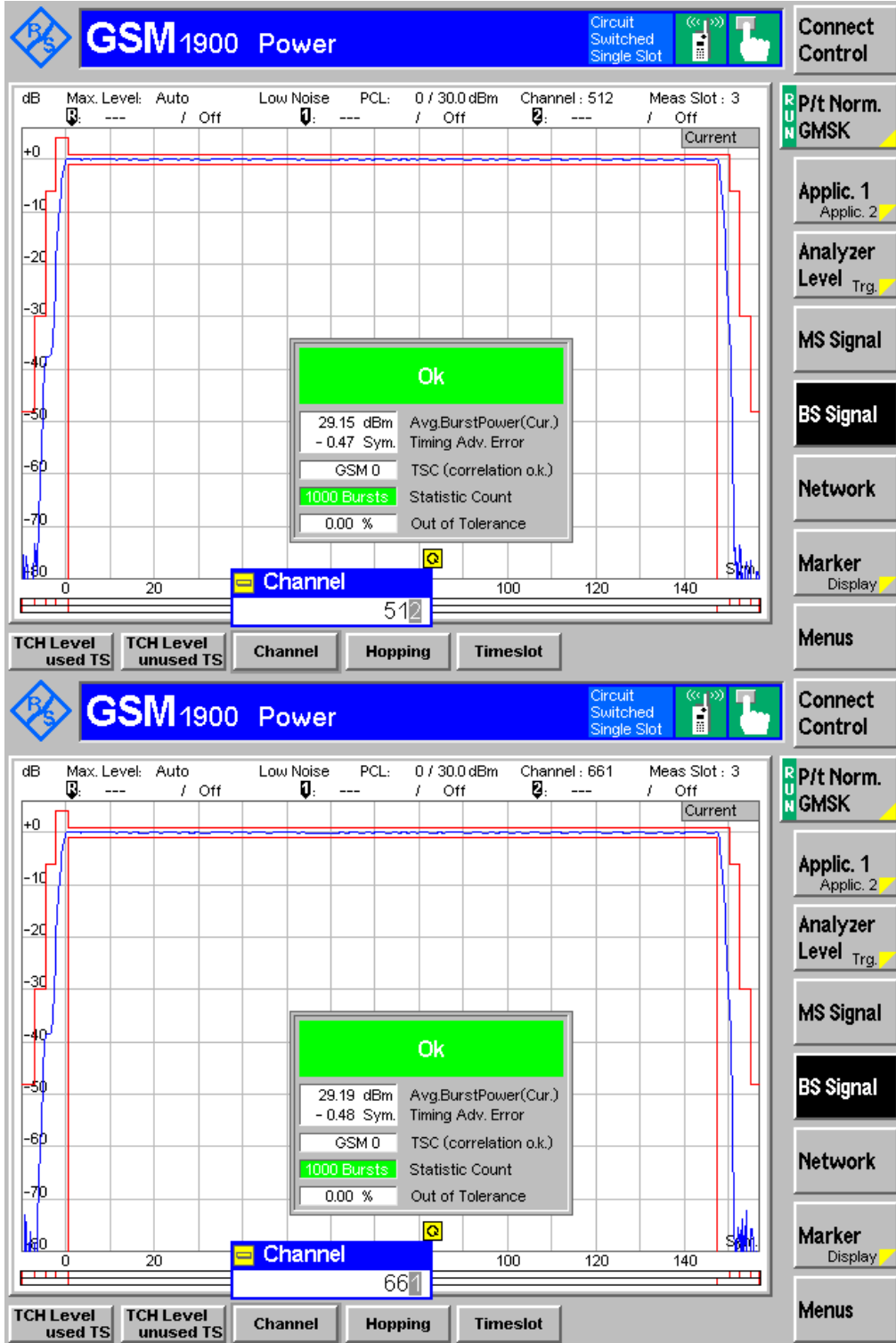
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPN02

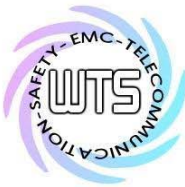




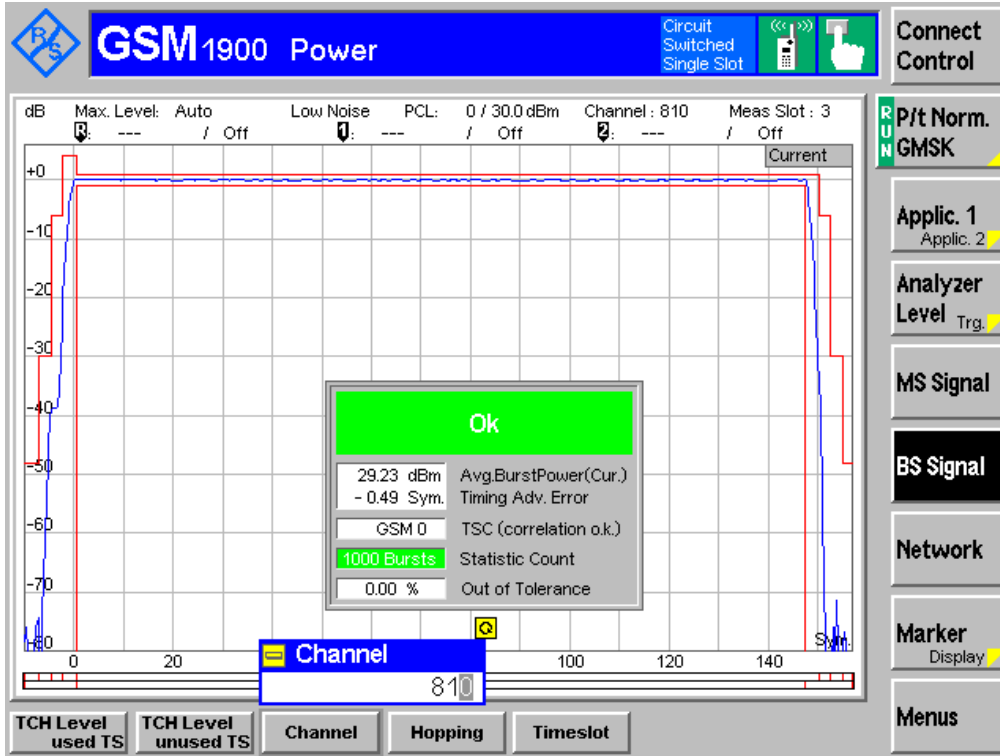
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02
Band 1900 MHz
4.07 V

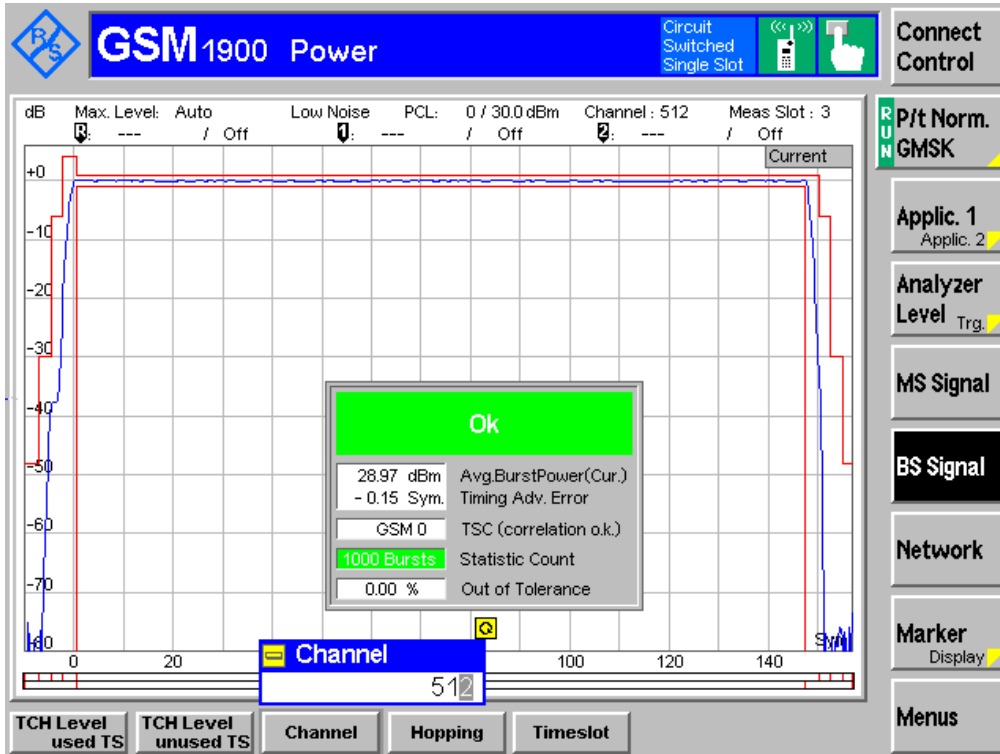


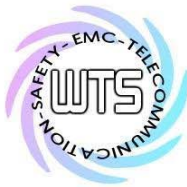


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

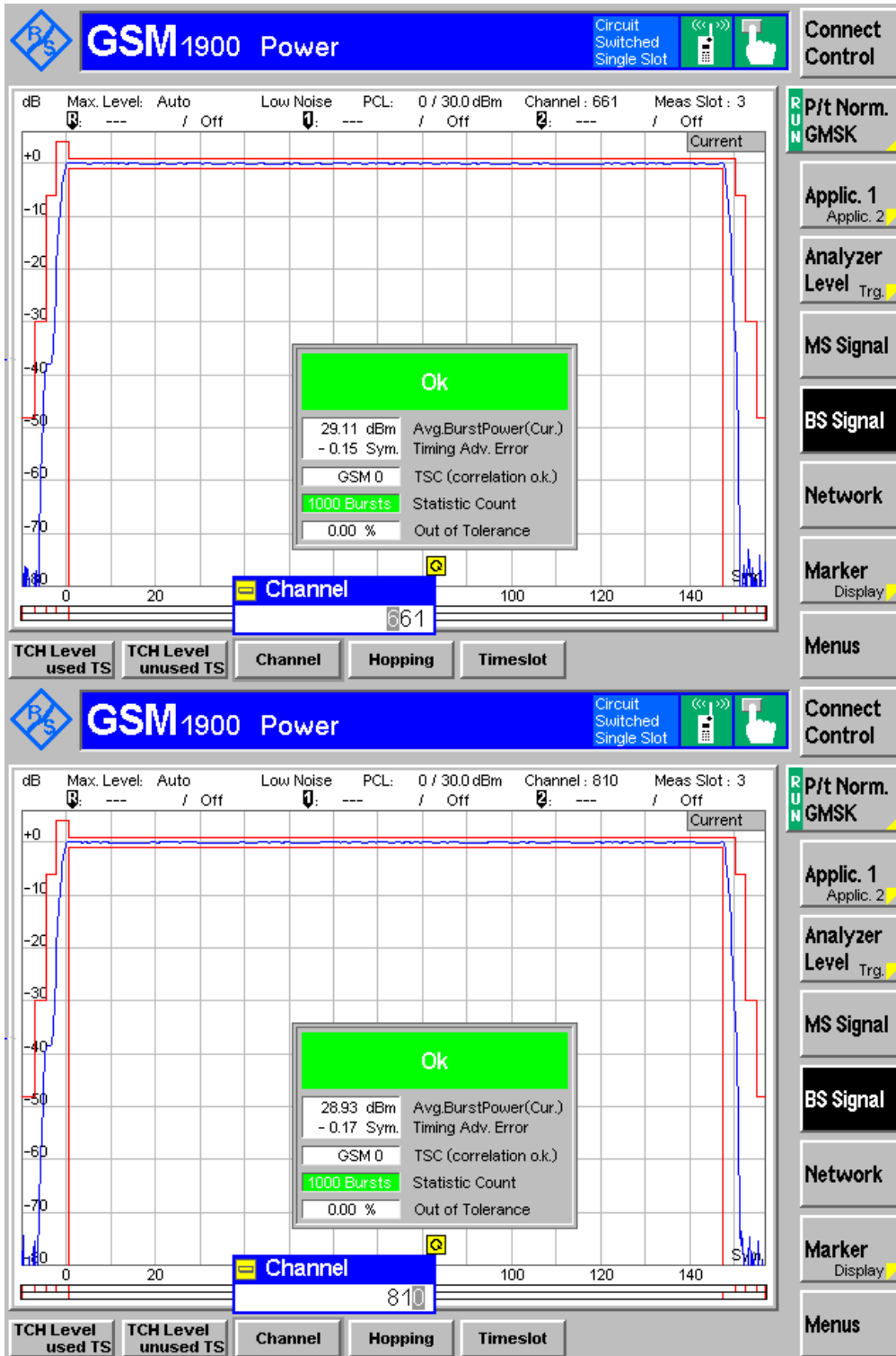


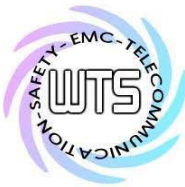
3.33 V





Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02





Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

Band II

4.07 V

WCDMA FDD Band II Power
CM OFF HSUPA HSDPA
Connect Control

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 9262 /1852.4 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	24.58 dBm	24.52 dBm	24.69 dBm	
UE Power (RMS)	21.91 dBm	21.94 dBm	22.01 dBm	21.46 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel: 9262

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.

WCDMA FDD Band II Power
CM OFF HSUPA HSDPA
Connect Control

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 9400 /1880.0 MHz

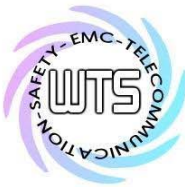
	Current	Average	Maximum	Minimum
UE Power (Peak)	24.33 dBm	24.38 dBm	24.59 dBm	
UE Power (RMS)	21.80 dBm	21.83 dBm	21.99 dBm	21.41 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel: 9400

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.



Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

WCDMA FDD Band Power | CM OFF HSUPA HSDPA | Connect Control

Max.Level: Auto | Low noise | Freq.Offset: + 0.000 kHz | Chan./Freq: 9538 /1907.6 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	24.20 dBm	24.28 dBm	24.59 dBm	
UE Power (RMS)	21.56 dBm	21.58 dBm	21.68 dBm	21.10 dBm

Statistic Count: 1000

Out of Tolerance: 0.00 %

RF Channel: 9538

Buttons: RF Channel, RF Frequency, RF Freq.Offset, Release 5 Guard Per., Connect Control, Maximum Power, Application, Trigger Ana. Lev., Ana.Set. UE Signal, BS Sig. Lvl. HSDPA HSUPA, BS Signal Settings, Menu

3.33 V

WCDMA FDD Band Power | CM OFF HSUPA HSDPA | Connect Control

Max.Level: Auto | Low noise | Freq.Offset: + 0.000 kHz | Chan./Freq: 9262 /1852.4 MHz

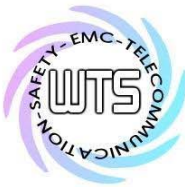
	Current	Average	Maximum	Minimum
UE Power (Peak)	23.79 dBm	23.83 dBm	24.09 dBm	
UE Power (RMS)	21.20 dBm	21.18 dBm	21.40 dBm	20.30 dBm

Statistic Count: 1000

Out of Tolerance: 0.00 %

RF Channel: 9262

Buttons: RF Channel, RF Frequency, RF Freq.Offset, Release 5 Guard Per., Connect Control, Maximum Power, Application, Trigger Ana. Lev., Ana.Set. UE Signal, BS Sig. Lvl. HSDPA HSUPA, BS Signal Settings, Menu



Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

WCDMA FDD Band II Power
CM OFF HSUPA HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 9400 /1880.0 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	24.49 dBm	24.60 dBm	24.97 dBm	
UE Power (RMS)	21.96 dBm	21.98 dBm	22.15 dBm	21.16 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel: 9400

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.

WCDMA FDD Band II Power
CM OFF HSUPA HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 9538 /1907.6 MHz

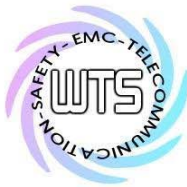
	Current	Average	Maximum	Minimum
UE Power (Peak)	24.54 dBm	24.58 dBm	24.87 dBm	
UE Power (RMS)	21.87 dBm	21.88 dBm	21.99 dBm	20.95 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel: 9538

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224

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Band V

4.07 V

WCDMA FDD Band V Power
CM OFF HSUPA HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 4132 /826.4 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	26.25 dBm	26.25 dBm	26.46 dBm	
UE Power (RMS)	22.92 dBm	22.89 dBm	22.97 dBm	22.39 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel 4132

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.

WCDMA FDD Band V Power
CM OFF HSUPA HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 4183 /836.6 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	26.38 dBm	26.25 dBm	26.43 dBm	
UE Power (RMS)	22.38 dBm	22.81 dBm	22.86 dBm	22.36 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel 4183

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.

Connect Control

RUN Maximum Power

Application

Trigger Ana. Lev.

Ana.Set. UE Signal

BS Sig. Lvl. HSDPA HSUPA

BS Signal Settings

Menus

Connect Control

RUN Maximum Power

Application

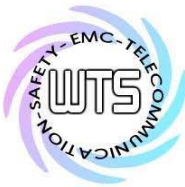
Trigger Ana. Lev.

Ana.Set. UE Signal

BS Sig. Lvl. HSDPA HSUPA

BS Signal Settings

Menus



Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

WCDMA FDD Band V Power | CM OFF HSDPA HSDPA | Connect Control

Max.Level: Auto | Low noise | Freq.Offset: + 0.000 kHz | Chan./Freq: 4233 /846.6 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	26.03 dBm	26.00 dBm	26.43 dBm	
UE Power (RMS)	22.86 dBm	22.83 dBm	22.89 dBm	21.38 dBm

1000
Statistic Count

0.00 %
Out of Tolerance

RF Channel
423

RF Channel | RF Frequency | RF Freq.Offset | Release 5 Guard Per. | Menu

Right sidebar: Maximum Power, Application, Trigger Ana. Lev., Ana.Set. UE Signal, BS Sig. Lvl. HSDPA HSDPA, BS Signal Settings

3.33 V

WCDMA FDD Band V Power | CM OFF HSDPA HSDPA | Connect Control

Max.Level: Auto | Low noise | Freq.Offset: + 0.000 kHz | Chan./Freq: 4132 /826.4 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	25.96 dBm	25.99 dBm	26.23 dBm	
UE Power (RMS)	22.75 dBm	22.73 dBm	22.82 dBm	22.25 dBm

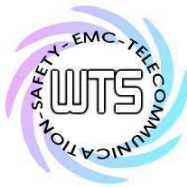
1000
Statistic Count

0.00 %
Out of Tolerance

RF Channel
413

RF Channel | RF Frequency | RF Freq.Offset | Release 5 Guard Per. | Menu

Right sidebar: Maximum Power, Application, Trigger Ana. Lev., Ana.Set. UE Signal, BS Sig. Lvl. HSDPA HSDPA, BS Signal Settings



Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

WCDMA FDD Band **V** Power
CM OFF
HSDPA
HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 4183 /836.6 MHz

	Current	Average	Maximum	Minimum
UE Power (Peak)	25.85 dBm	25.86 dBm	26.09 dBm	
UE Power (RMS)	22.66 dBm	22.65 dBm	22.72 dBm	21.21 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel
4183

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.

WCDMA FDD Band **V** Power
CM OFF
HSDPA
HSDPA

Max.Level: Auto Low noise Freq.Offset: + 0.000 kHz Chan./Freq: 4233 /846.6 MHz

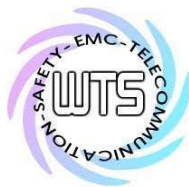
	Current	Average	Maximum	Minimum
UE Power (Peak)	25.55 dBm	25.69 dBm	26.00 dBm	
UE Power (RMS)	22.62 dBm	22.60 dBm	22.69 dBm	21.18 dBm

1000
 Statistic Count

0.00 %
 Out of Tolerance

RF Channel
4233

RF Channel
RF Frequency
RF Freq.Offset
Release 5 Guard Per.



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

- Conducted Measurement
- Radiated Measurement

Band 850 MHz & 1900 MHz

4.07 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.2571	29.27	31.42	38.45	Pass
836.2591	27.70	29.85	38.45	Pass
848.8511	25.25	27.40	38.45	Pass
1850.235	24.10	26.25	33	Pass
1880.055	22.14	24.29	33	Pass
1909.845	23.70	25.85	33	Pass

3.33 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.1168	29.38	31.53	38.45	Pass
836.1248	27.68	29.83	38.45	Pass
848.7228	25.44	27.59	38.45	Pass
1850.205	24.10	26.25	33	Pass
1879.895	22.16	24.31	33	Pass
1909.865	23.71	25.86	33	Pass

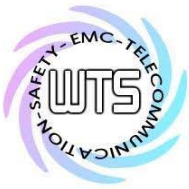
Band II & Band V

4.07 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1853.612	18.04	20.19	38.45	Pass
1881.192	14.73	16.88	38.45	Pass
1908.792	15.95	18.10	38.45	Pass
826.3500	11.46	13.61	33	Pass
837.2112	11.32	13.47	33	Pass
847.1511	10.20	12.35	33	Pass

3.33 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1853.612	18.10	20.25	38.45	Pass
1881.233	15.21	17.36	38.45	Pass
1908.873	16.13	18.28	38.45	Pass
827.1315	11.35	13.50	33	Pass
837.1912	12.19	14.34	33	Pass
847.3114	10.35	12.50	33	Pass



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

Test equipment: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147,
ETSTW-GSM 002

Note: Please refer to appendix for plot data.

Report Number: W6M21611-16408-P-2224

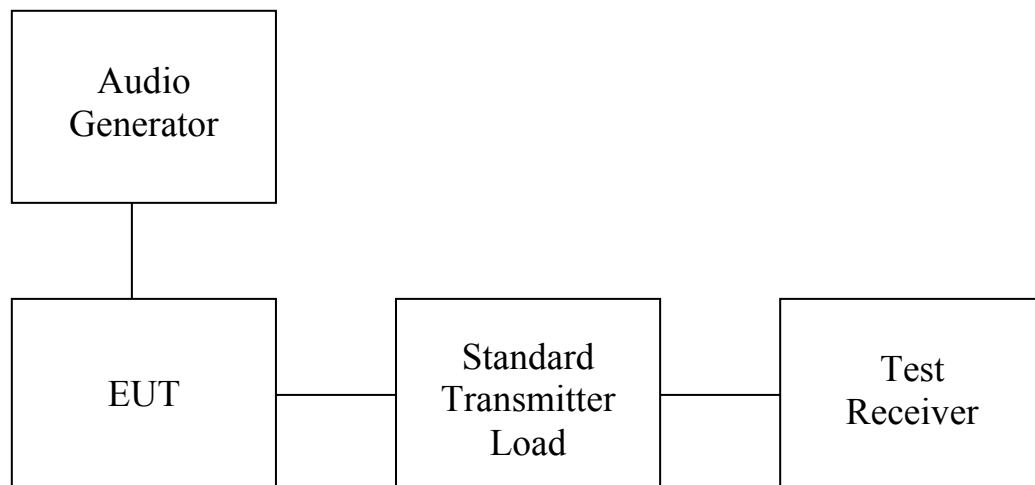
FCC ID: 2AENAYPZN02

4. Modulation Characteristics

4.1 Test procedure

- A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

- Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

For digital modulation employed, this test item is not applicable.

Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

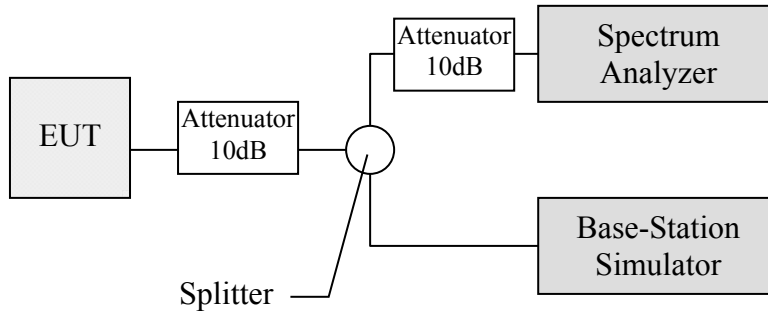
5. Occupied Bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

5.1 Test procedure

The RF output of the transceiver was connected as the following figure.

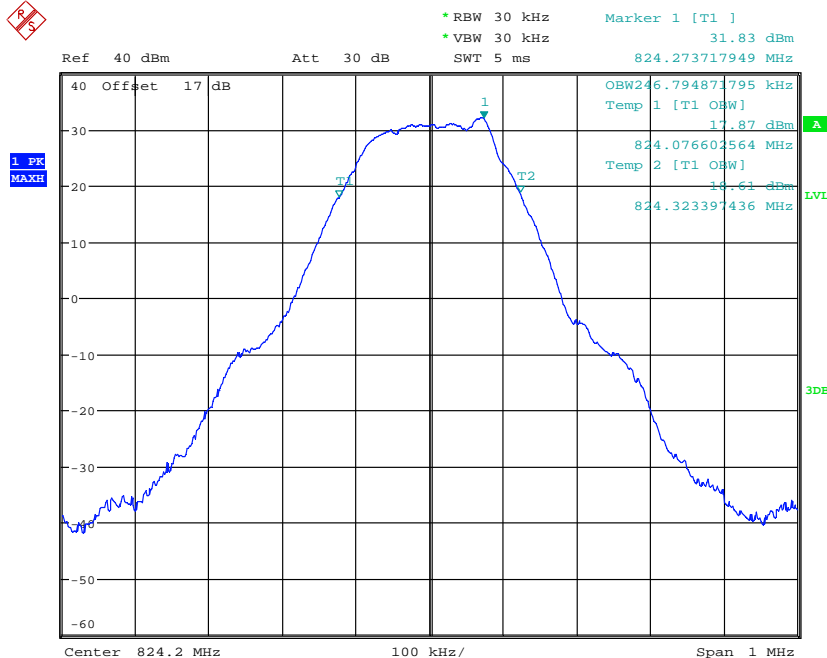
Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.



5.2 Test Results

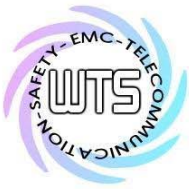
Occupied Channel Bandwidth

Band 850 MHz

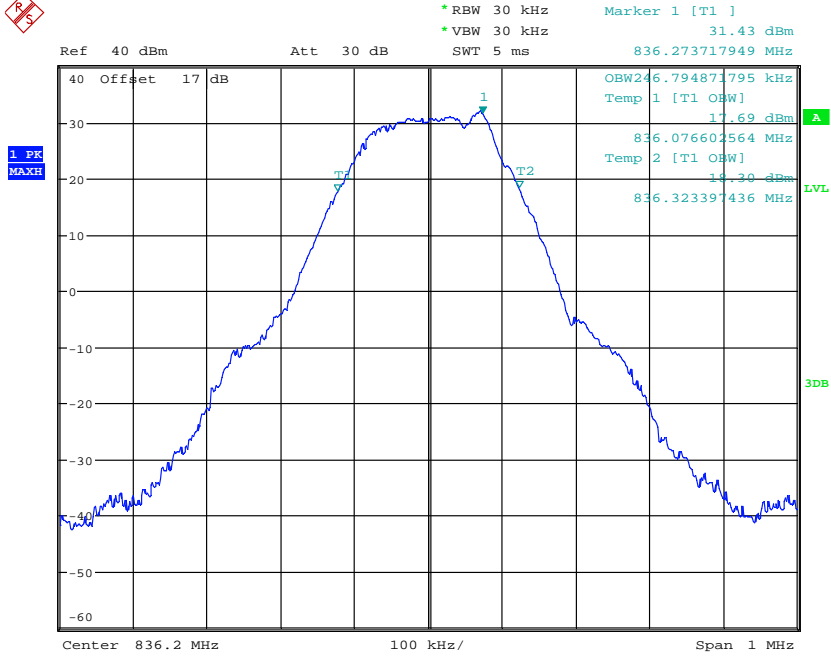


OCCUPIED BANDWIDTH GSM850 CH128

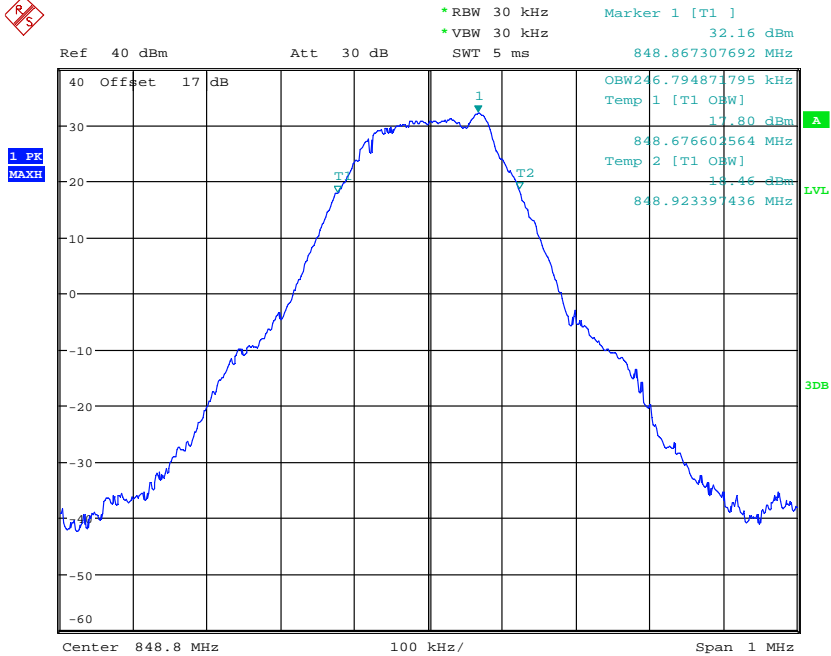
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Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02



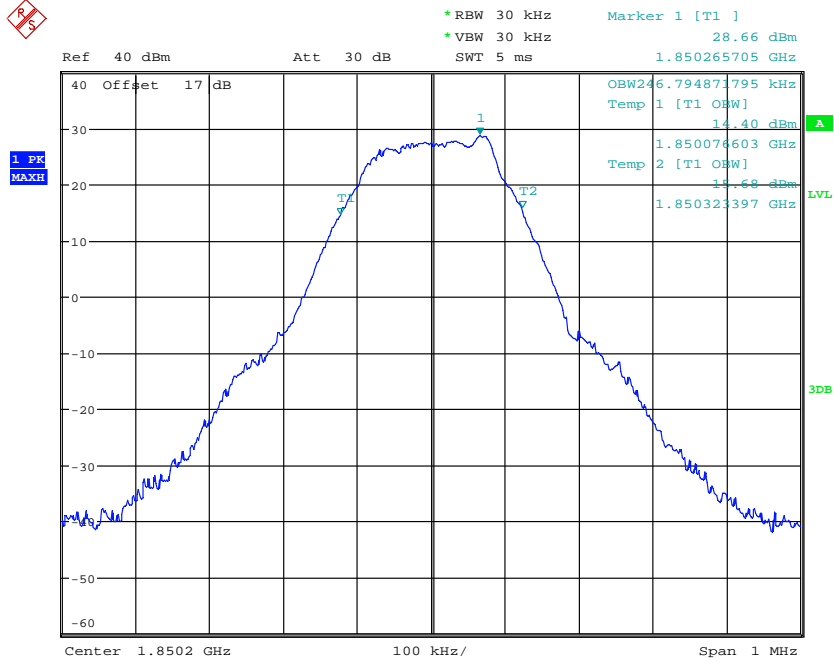
OCCUPIED BANDWIDTH GSM850 CH188
 Date: 7.DEC.2016 10:58:24



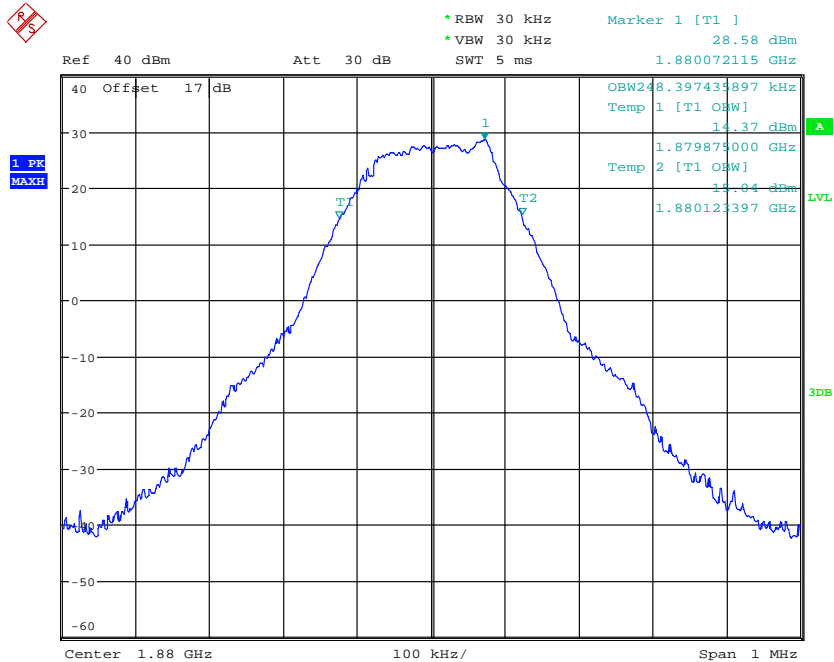
OCCUPIED BANDWIDTH GSM850 CH251
 Date: 7.DEC.2016 10:58:56



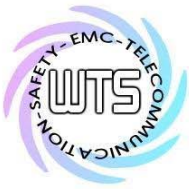
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02
Band 1900 MHz



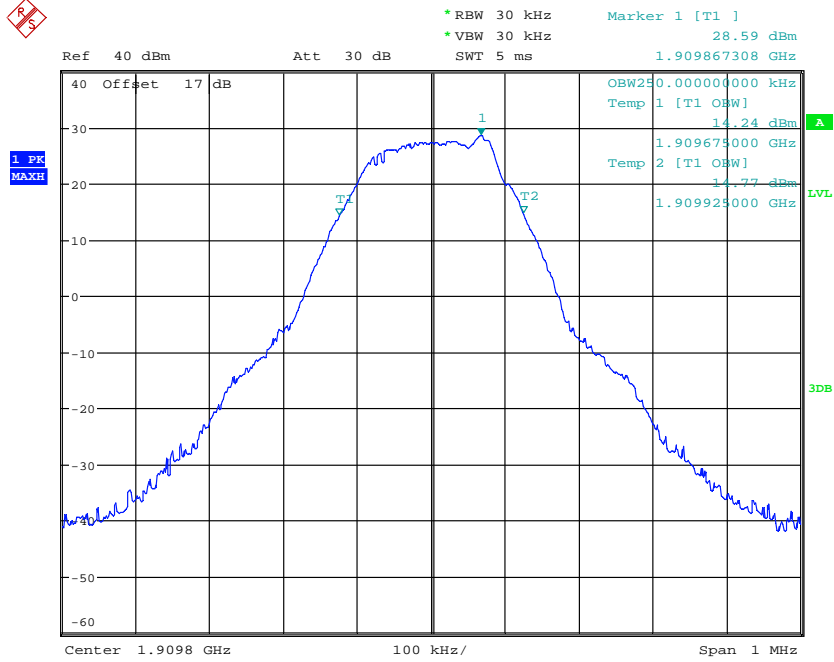
OCCUPIED BANDWIDTH GSM1900 CH512
Date: 7.DEC.2016 11:10:37



OCCUPIED BANDWIDTH GSM1900 CH661
Date: 7.DEC.2016 11:09:56

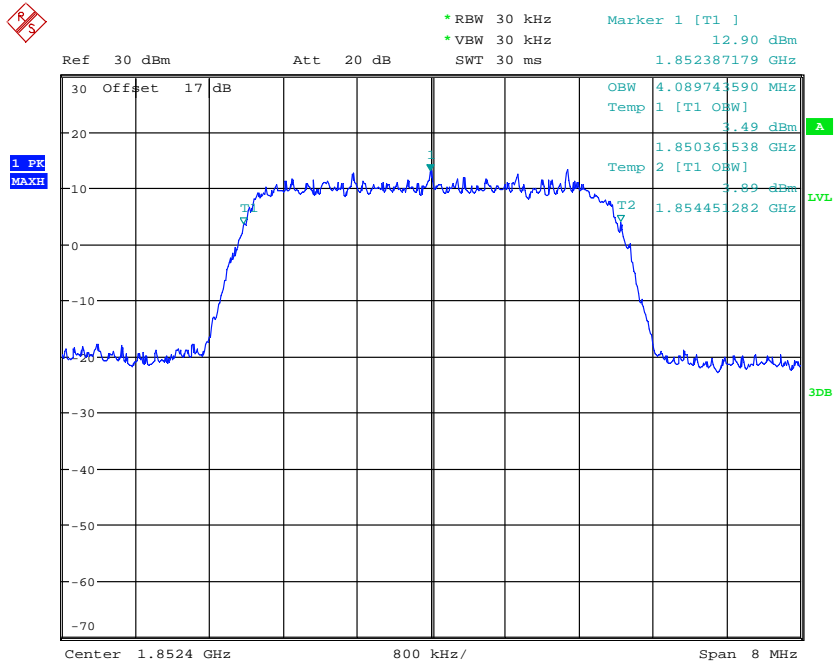


Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

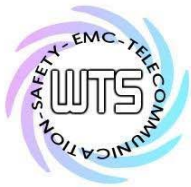


OCCUPIED BANDWIDTH GSM1900 CH810
 Date: 7.DEC.2016 11:08:39

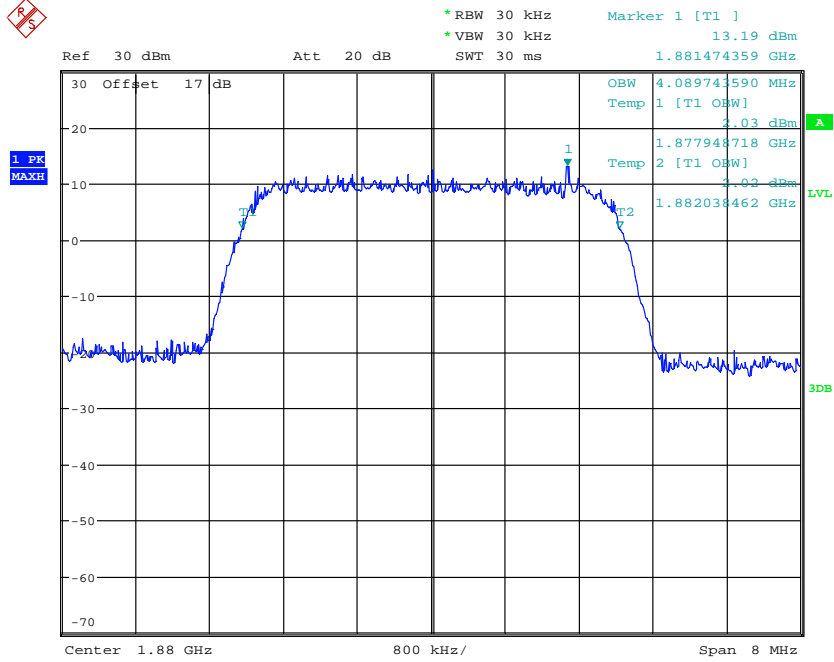
Band II



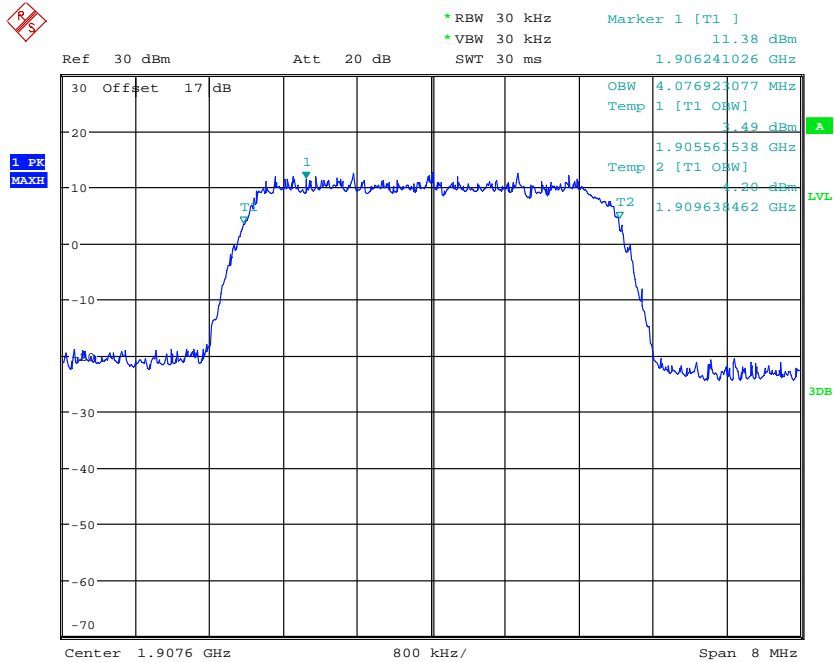
OCCUPIED BANDWIDTH WCDMA II CH9262
 Date: 6.DEC.2016 18:16:34



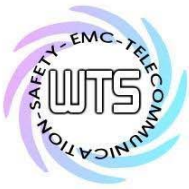
Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02



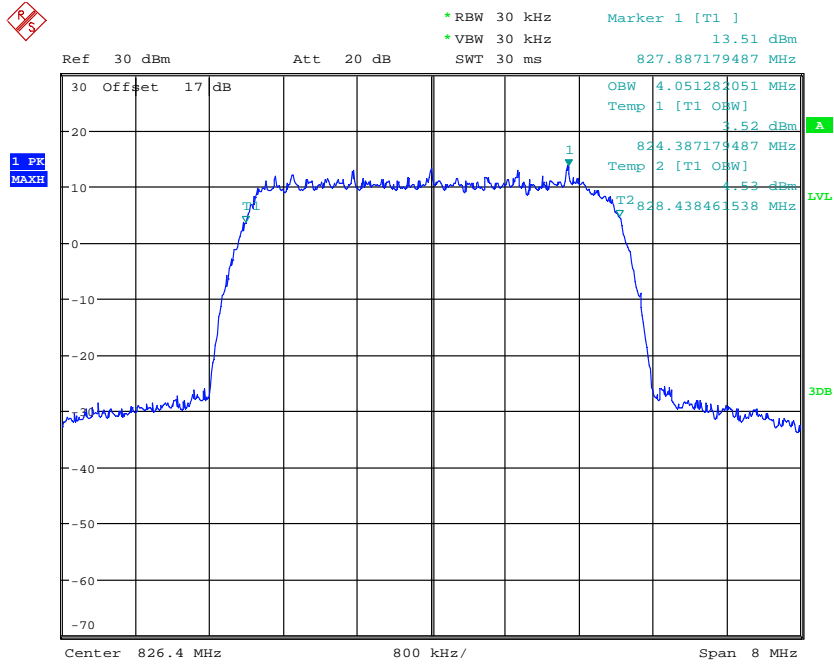
OCCUPIED BANDWIDTH WCDMA II CH9400
 Date: 6.DEC.2016 18:12:53



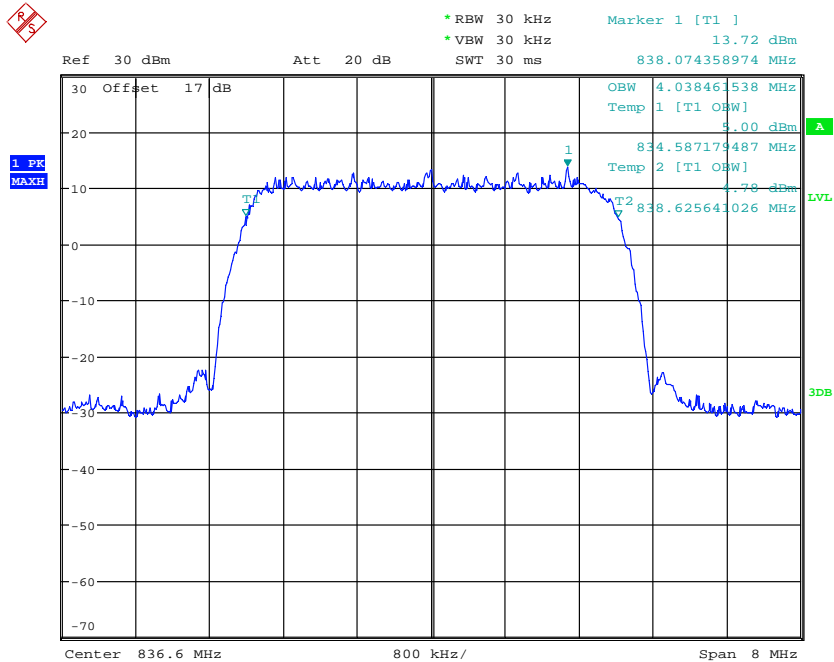
OCCUPIED BANDWIDTH WCDMA II CH9538
 Date: 6.DEC.2016 18:15:18



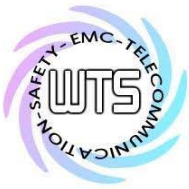
Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02
 Band V



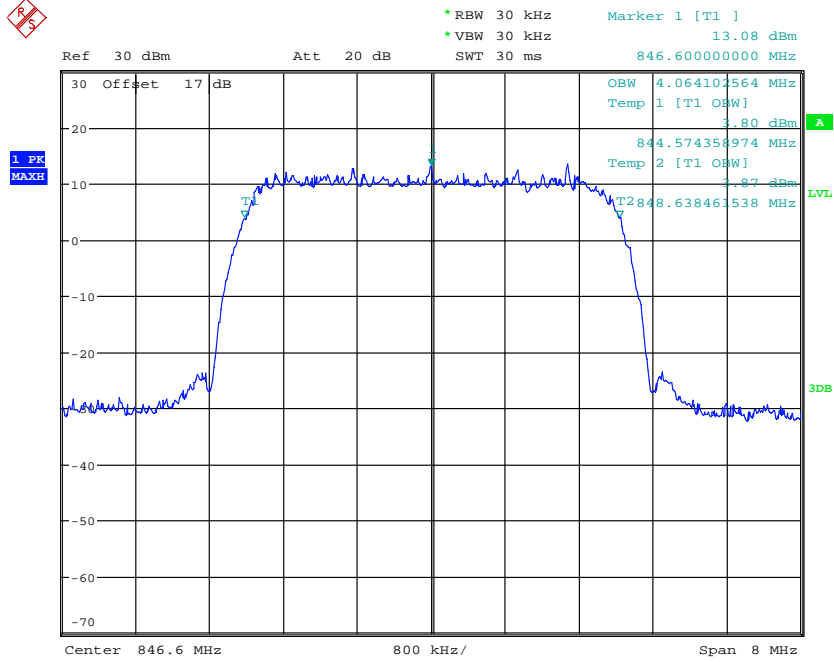
OCCUPIED BANDWIDTH WCDMA V CH4132
 Date: 7.DEC.2016 10:51:02



OCCUPIED BANDWIDTH WCDMA V CH4183
 Date: 7.DEC.2016 10:50:27

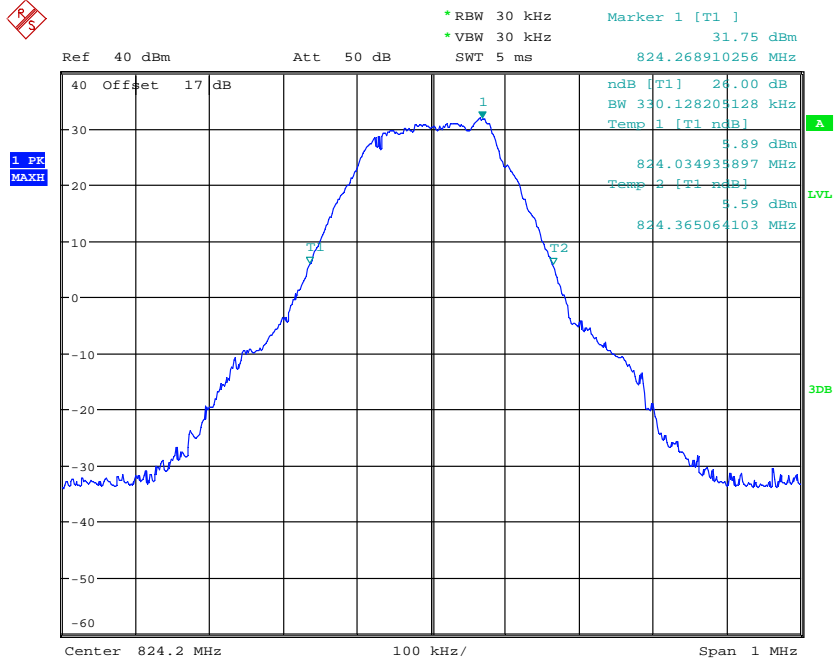


Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

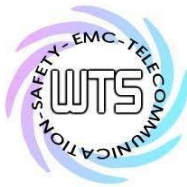


OCCUPIED BANDWIDTH WCDMA V CH4233
 Date: 7.DEC.2016 10:46:19

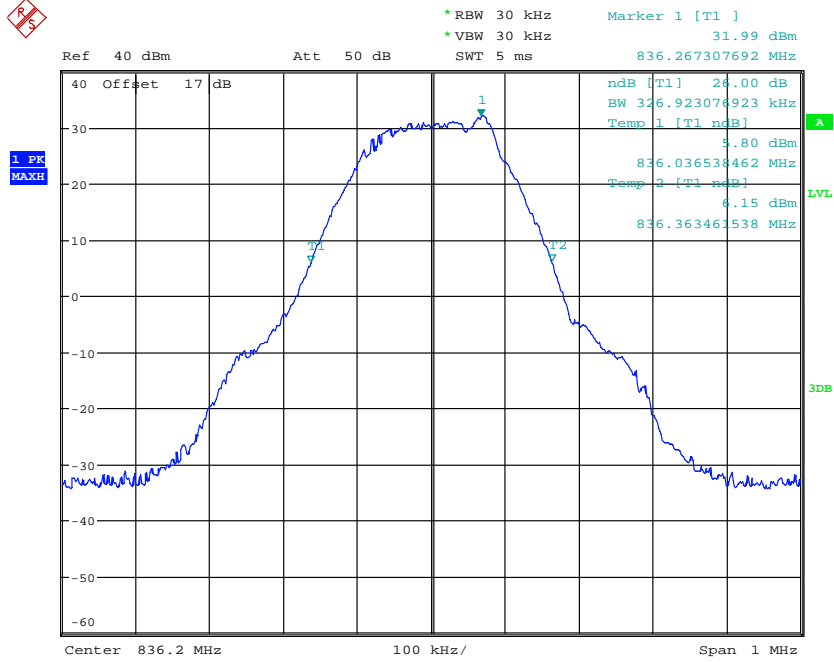
26dB Channel Bandwidth Band 850 MHz



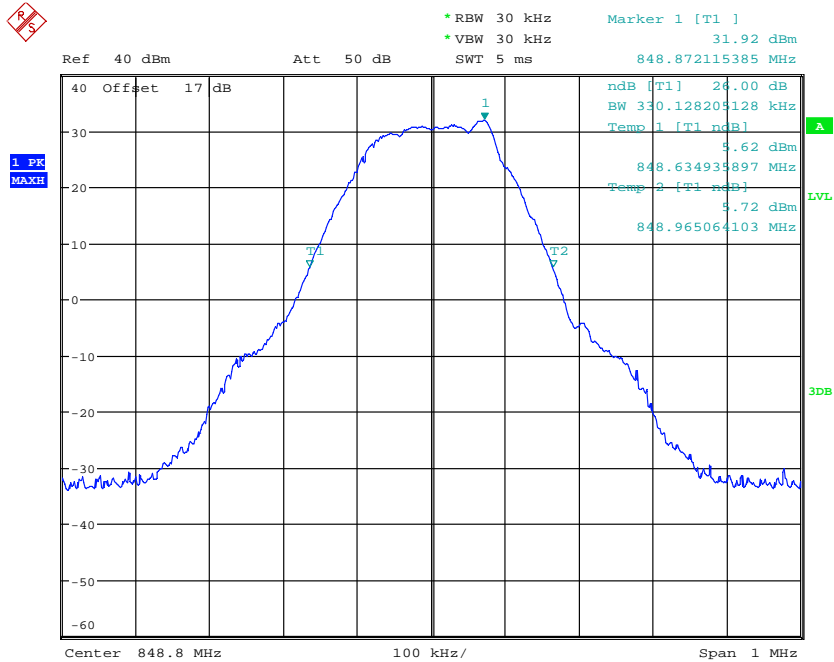
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 Date: 7.DEC.2016 11:01:16



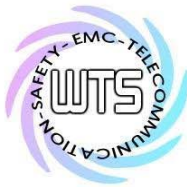
Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02



26DB BANDWIDTH GSM850 CH188
 Date: 7.DEC.2016 11:00:40



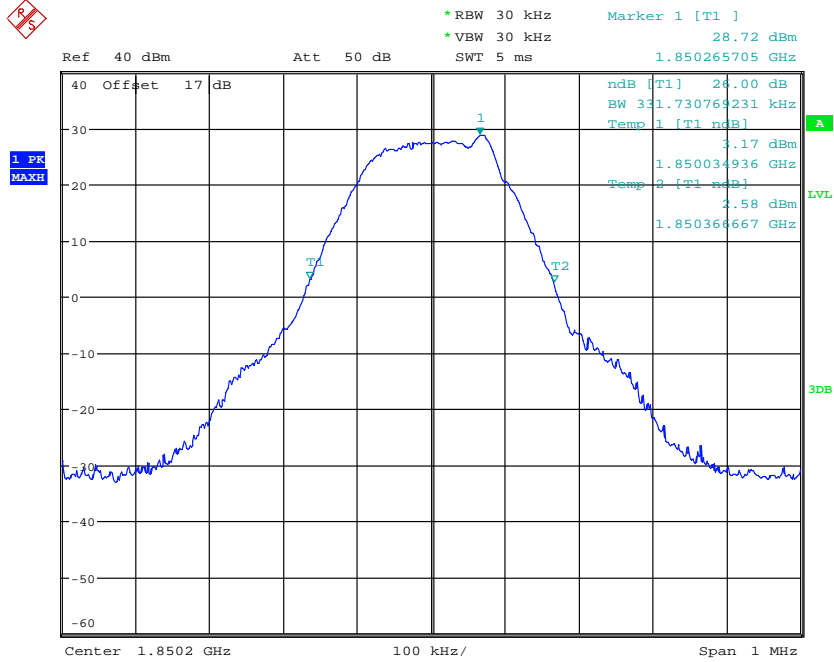
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Report Number: W6M21611-16408-P-2224

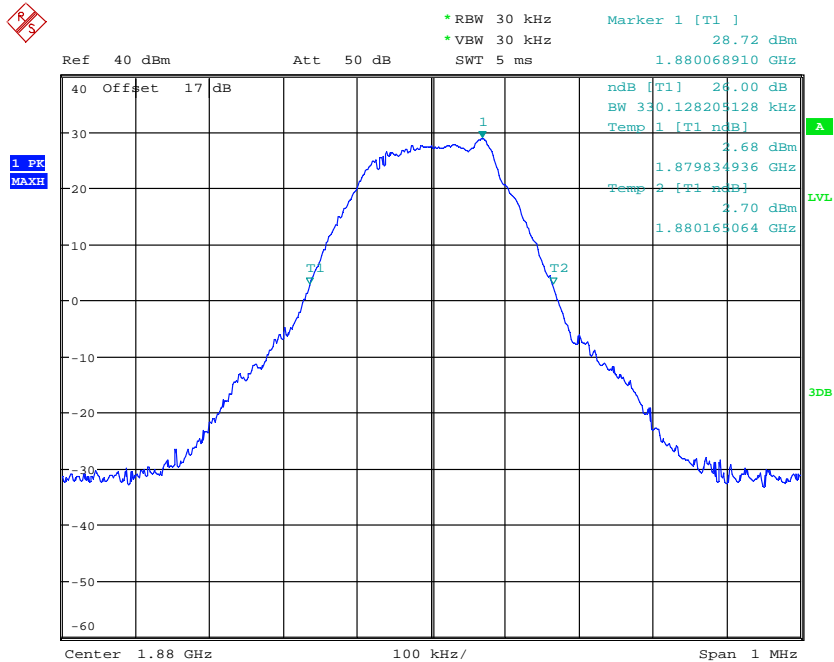
FCC ID: 2AENAYPZN02

Band 1900 MHz



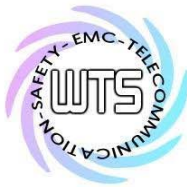
26DB BANDWIDTH GSM1900 CH512

Date: 7.DEC.2016 11:06:42

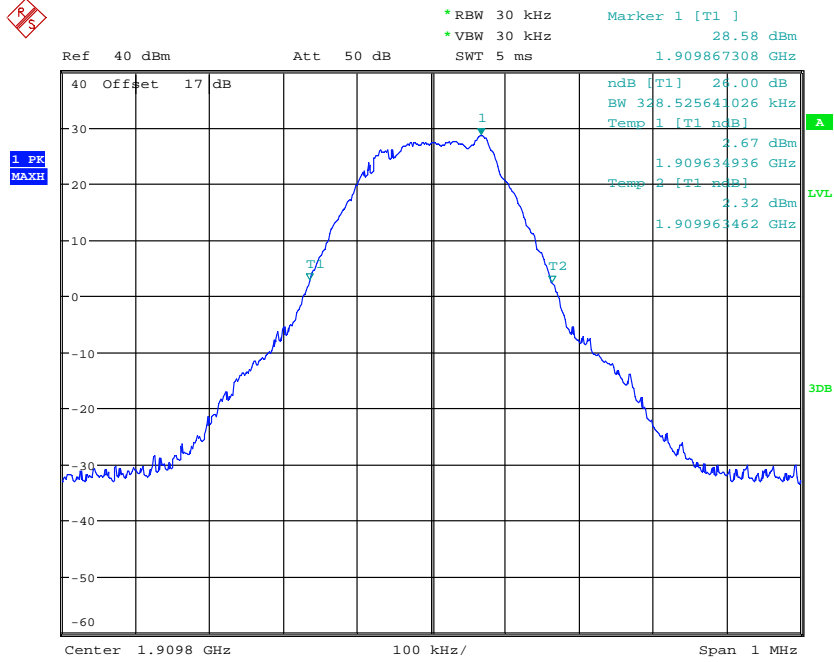


26DB BANDWIDTH GSM1900 CH661

Date: 7.DEC.2016 11:07:16



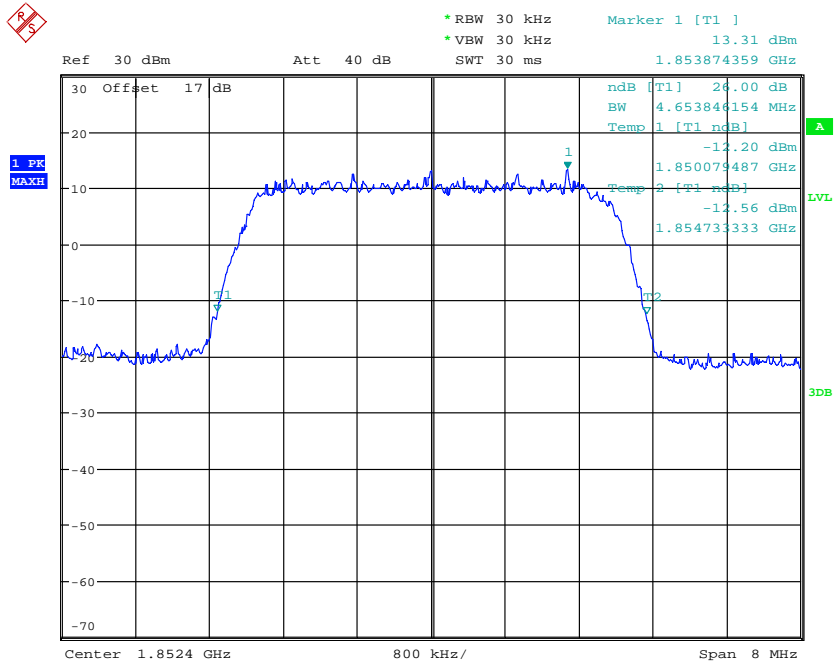
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



26DB BANDWIDTH GSM1900 CH810

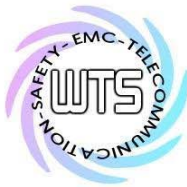
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Band II

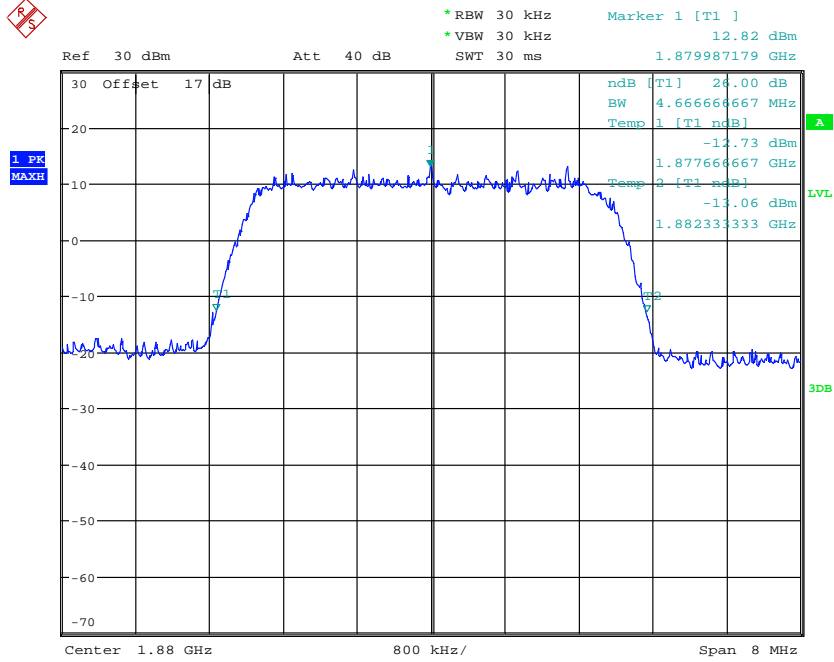


26DB BANDWIDTH WCDMA II CH9262

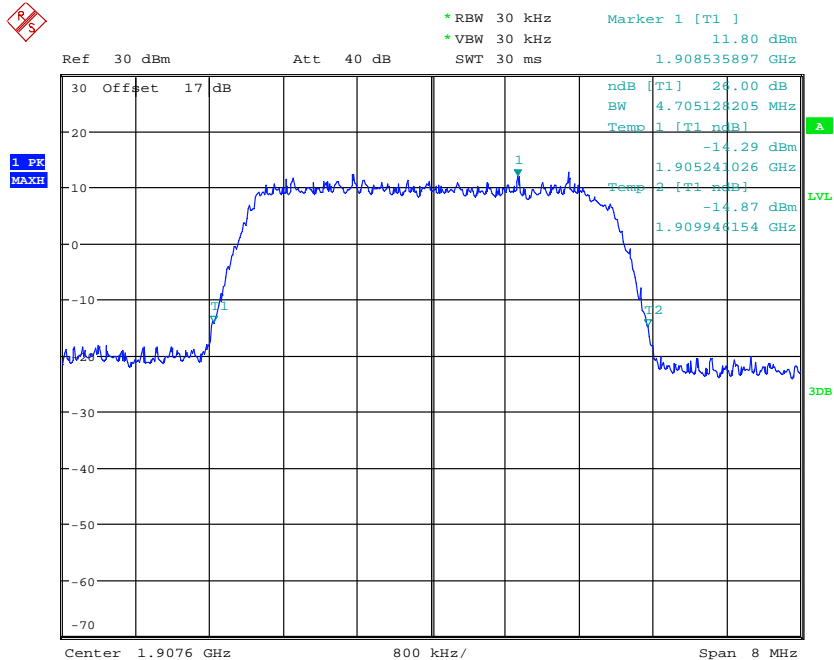
Date: 6.DEC.2016 18:17:31



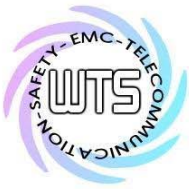
Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02



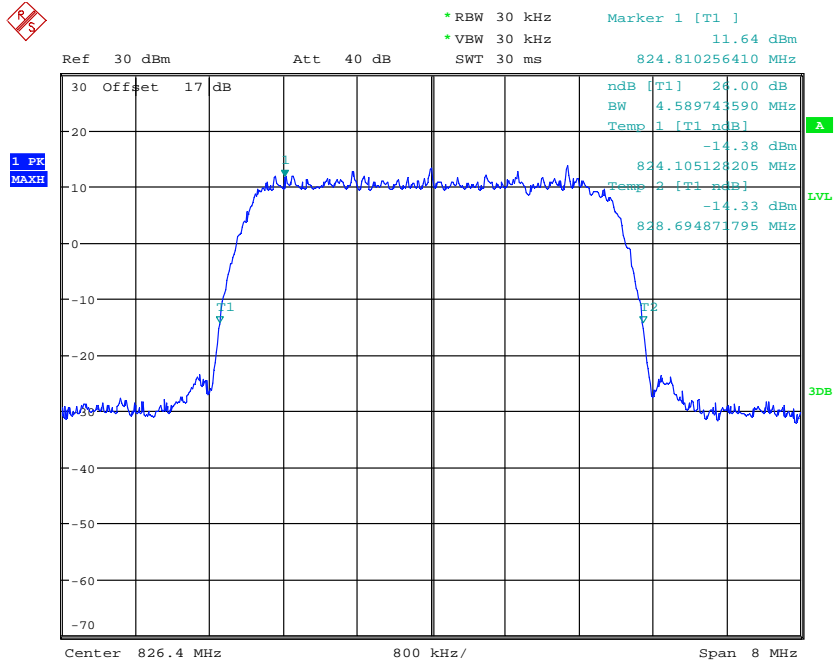
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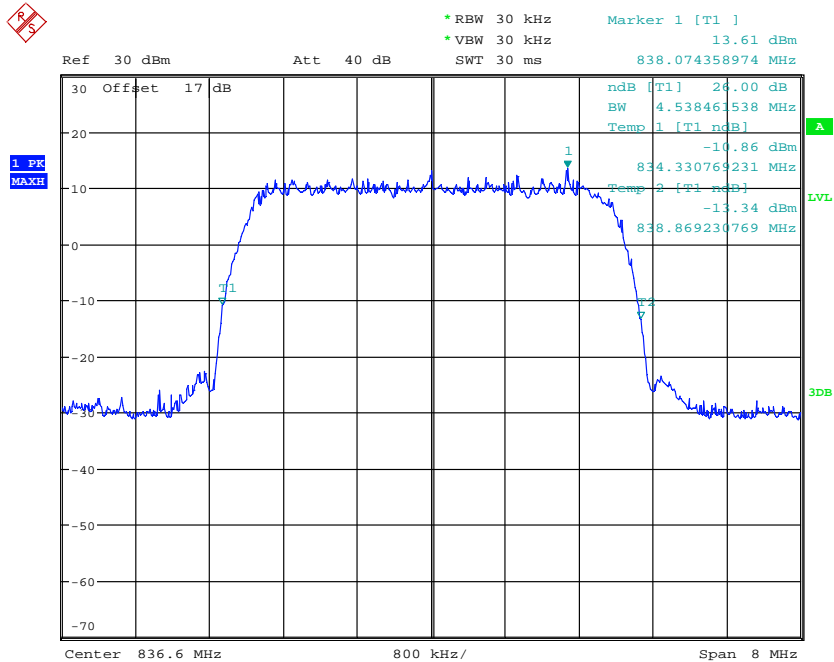
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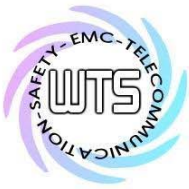
Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02
 Band V



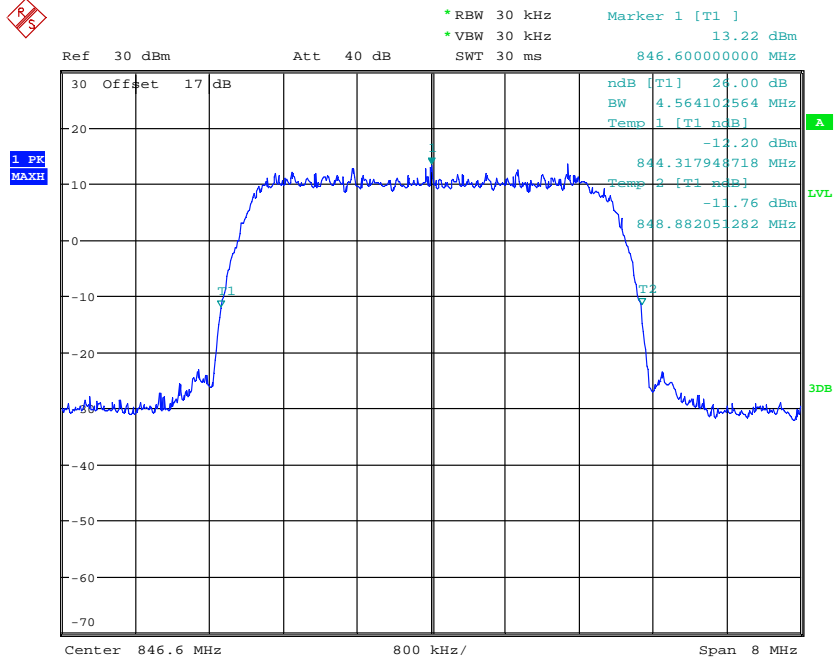
26DB BANDWIDTH WCDMA V CH4132
 Date: 7.DEC.2016 10:33:30



26DB BANDWIDTH WCDMA V CH4183
 Date: 7.DEC.2016 10:34:46



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



26DB BANDWIDTH WCDMA V CH4233

Date: 7.DEC.2016 10:45:41

Test equipment: ETSTW-RE 055, ETSTW-GSM 002

Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

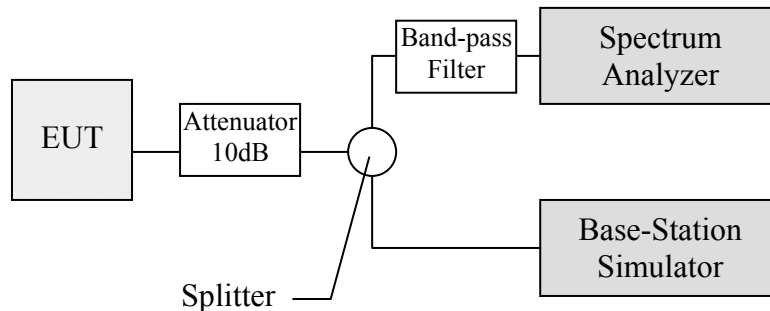
6. Spurious Emissions at Antenna Terminals

6.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

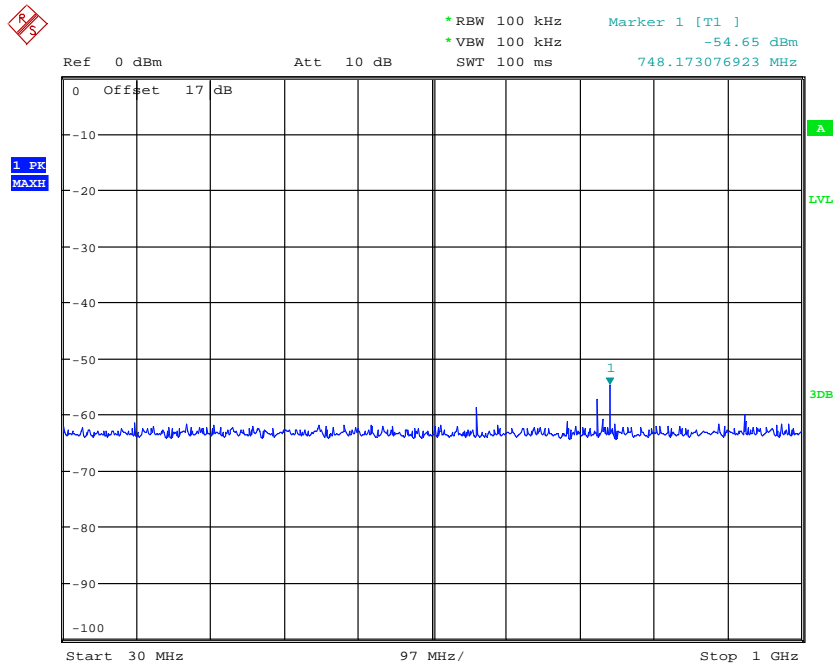
The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

Tests were performed with an unmodulated carrier at three frequencies (low, middle and high channels) and on all power levels , which can be set-up on the transmitters.



6.2 Test Results

Band 850 MHz
CH128

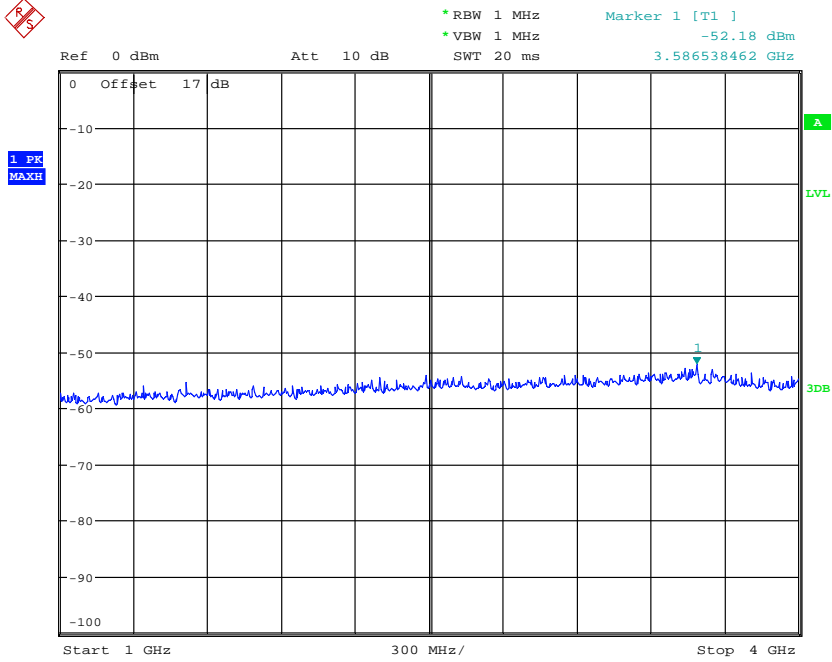


CONDUCTED SPURIOUS EMISSION GSM850 CH128

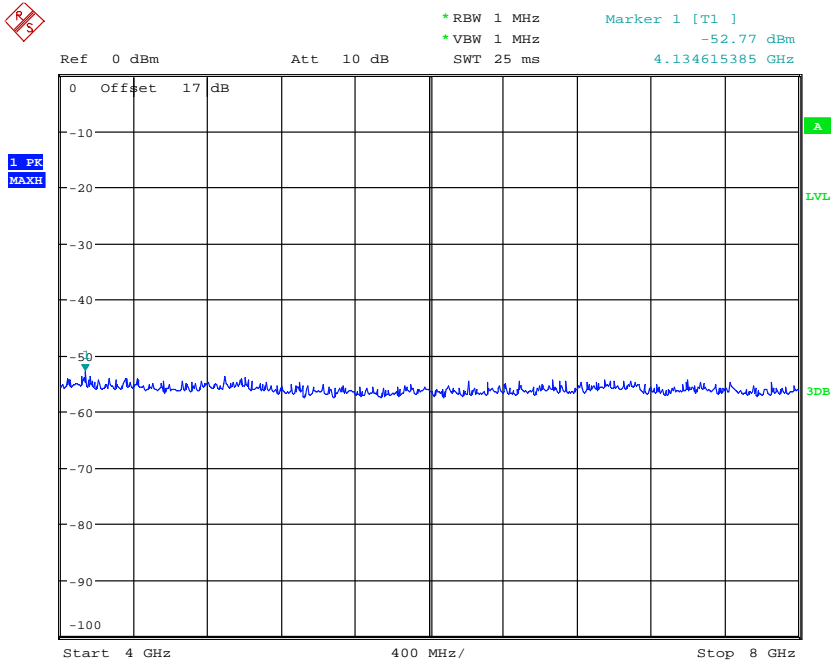
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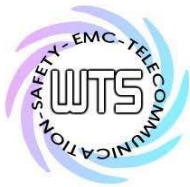
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



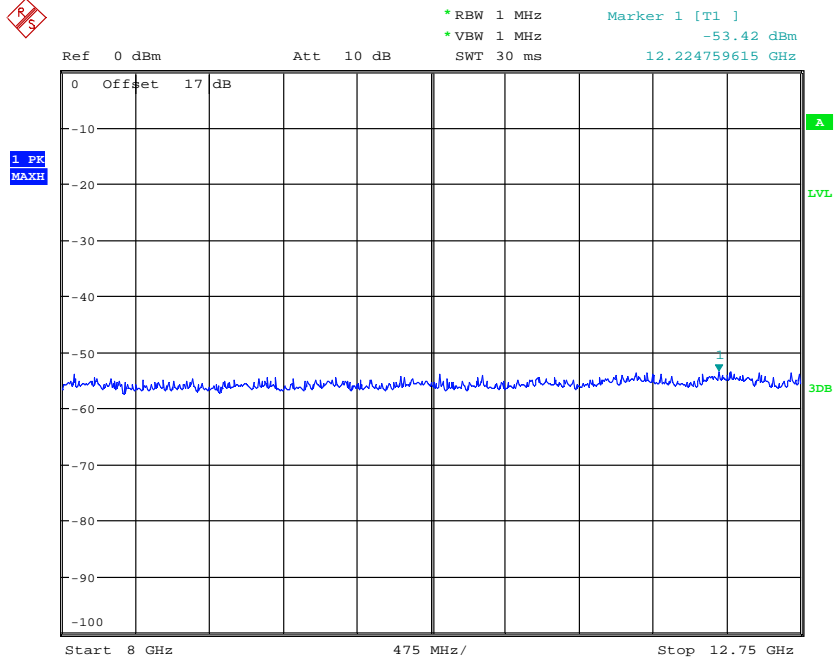
CONDUCTED SPURIOUS EMISSION GSM850 CH128
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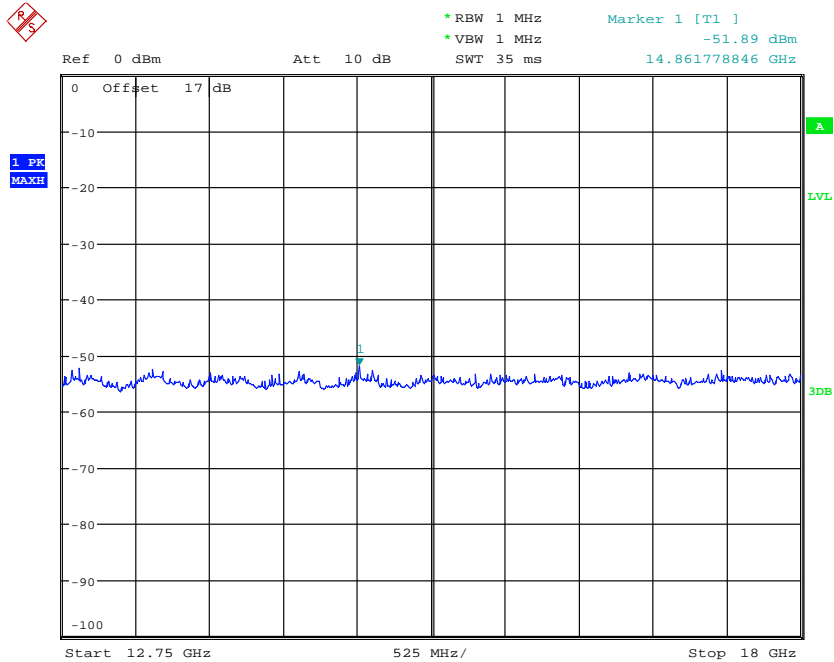
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Date: 7.DEC.2016 11:47:04



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



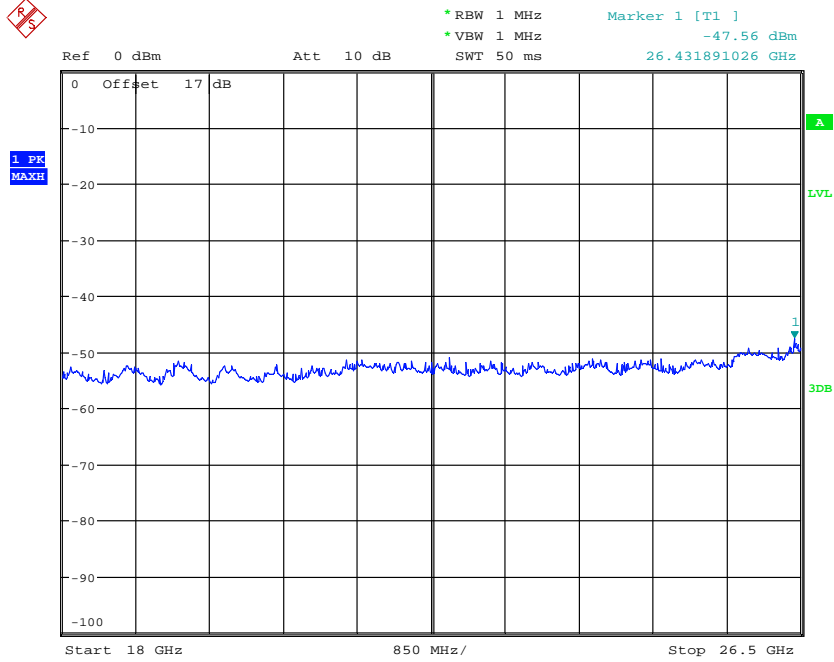
CONDUCTED SPURIOUS EMISSION GSM850 CH128
Date: 7.DEC.2016 11:46:38



CONDUCTED SPURIOUS EMISSION GSM850 CH128
Date: 7.DEC.2016 11:45:54



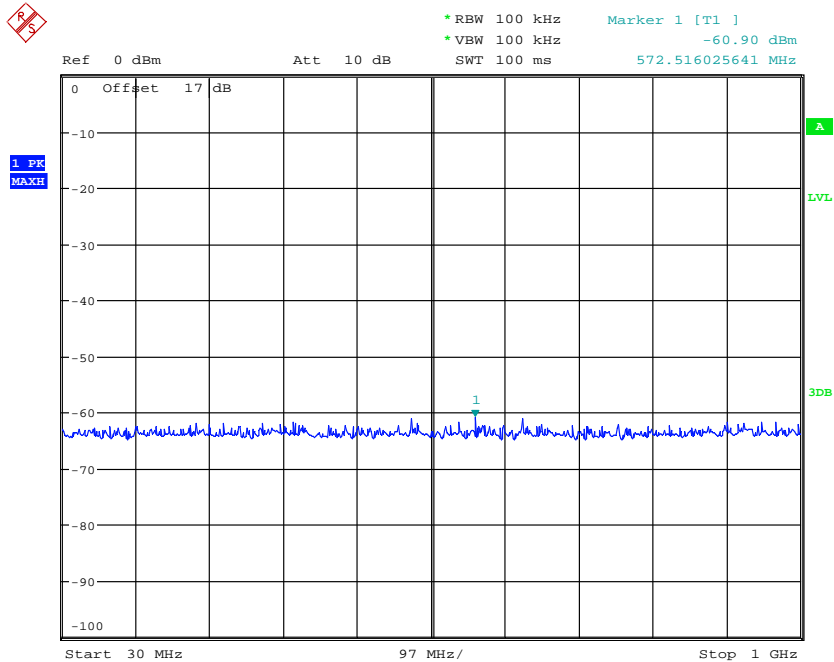
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM850 CH128

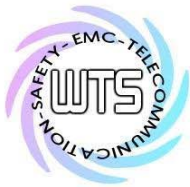
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CH188

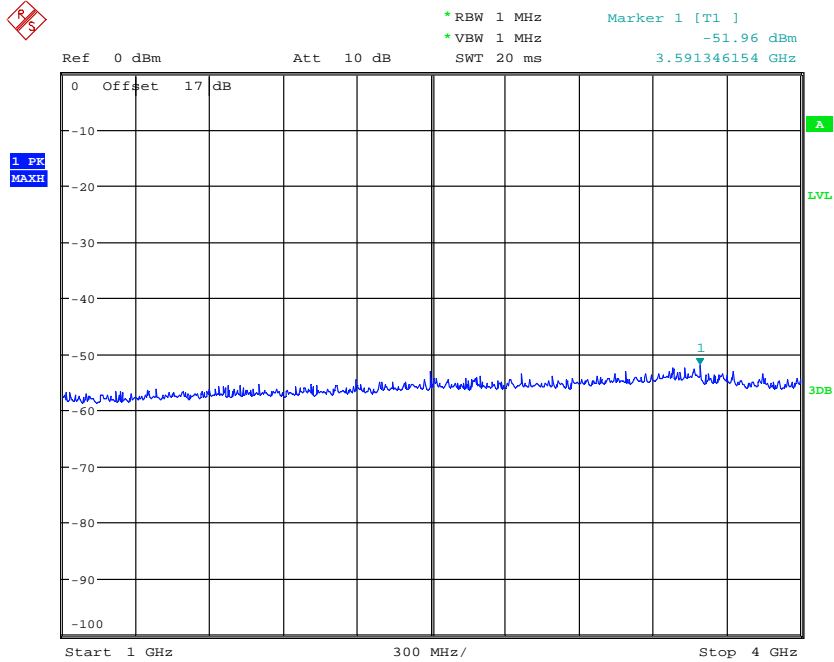


CONDUCTED SPURIOUS EMISSION GSM850 CH188

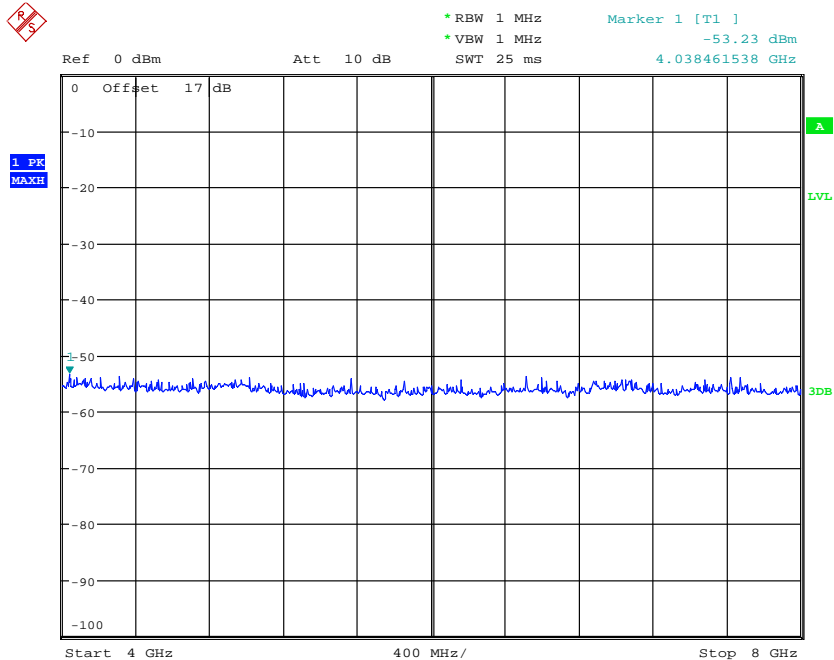
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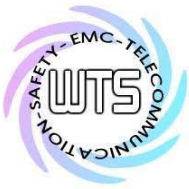
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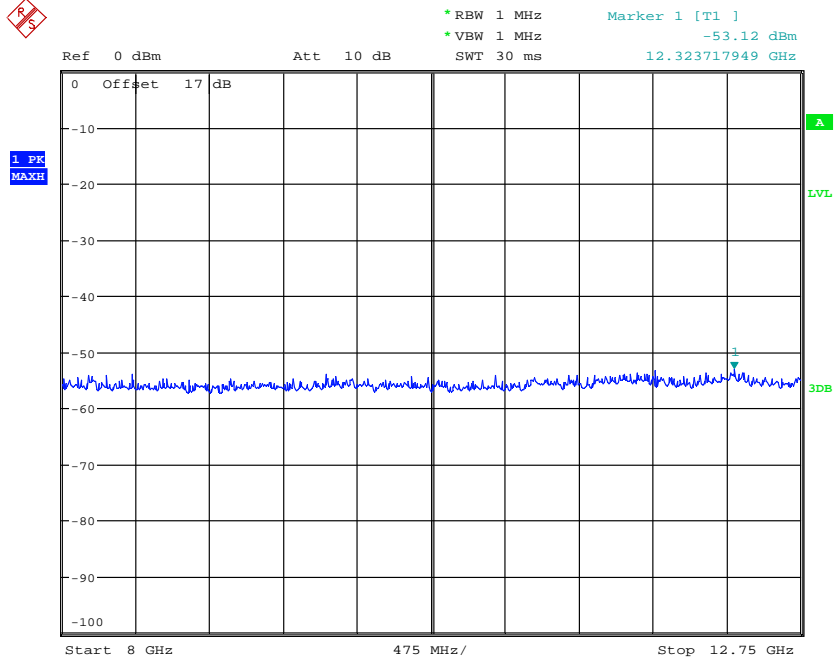
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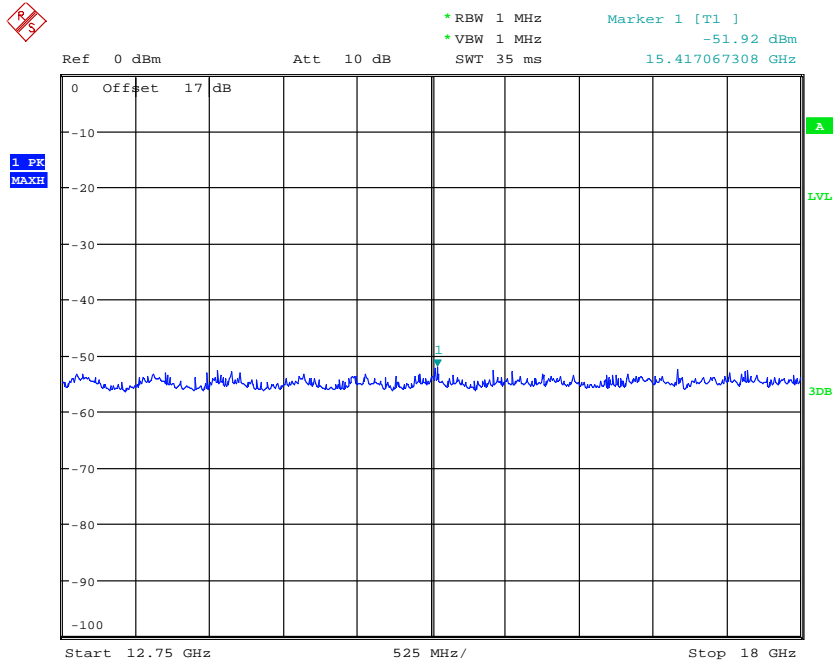
CONDUCTED SPURIOUS EMISSION GSM850 CH188
Date: 7.DEC.2016 11:49:03



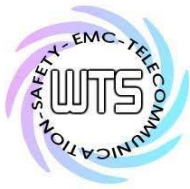
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FCC ID: 2AENAYPZN02



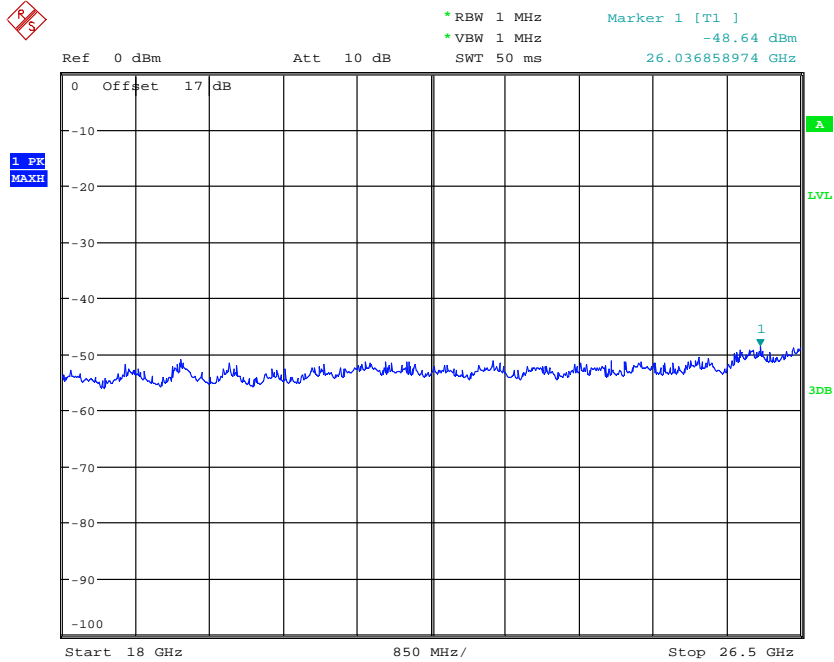
CONDUCTED SPURIOUS EMISSION GSM850 CH188
Date: 7.DEC.2016 11:49:51



CONDUCTED SPURIOUS EMISSION GSM850 CH188
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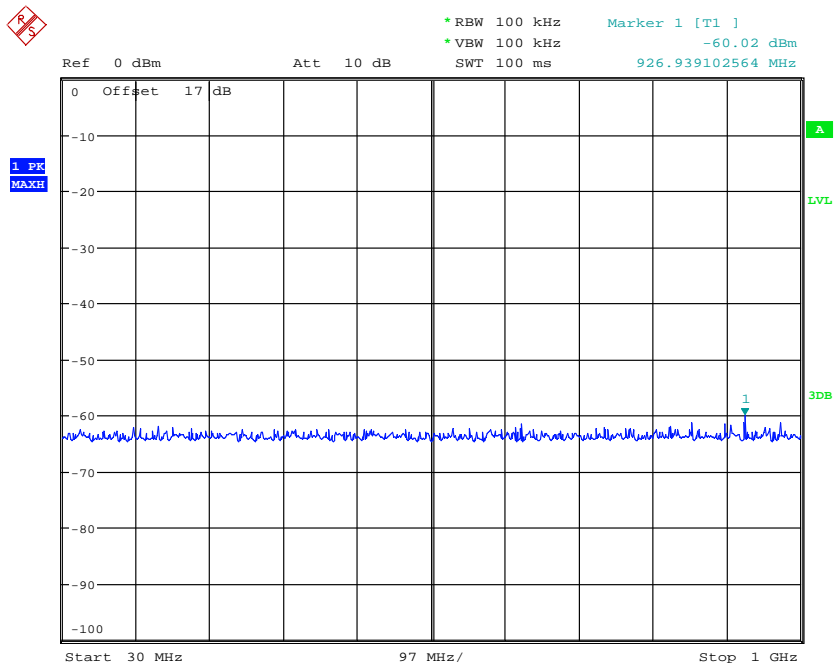


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

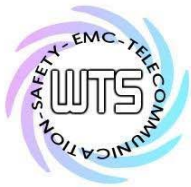


CONDUCTED SPURIOUS EMISSION GSM850 CH188
Date: 7.DEC.2016 11:50:23

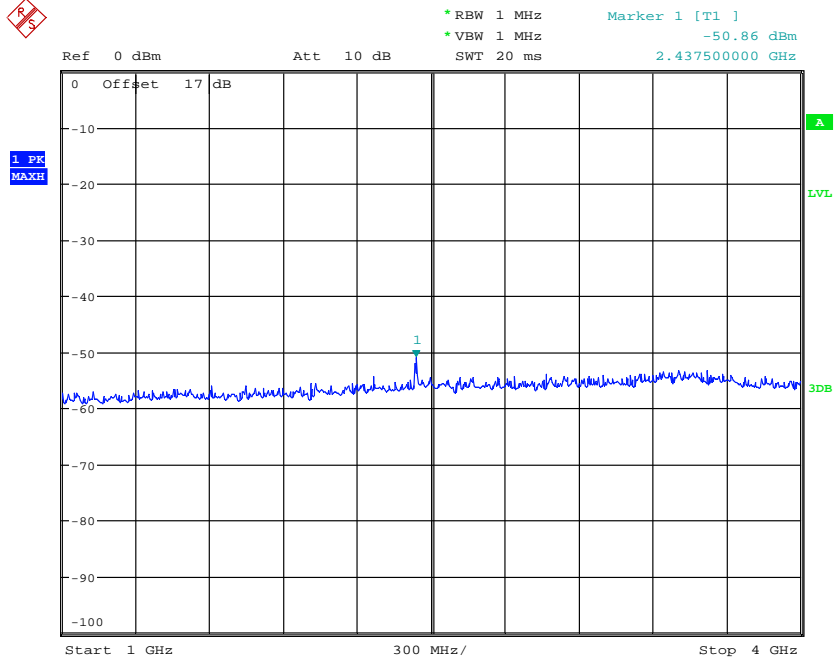
CH251



CONDUCTED SPURIOUS EMISSION GSM850 CH251
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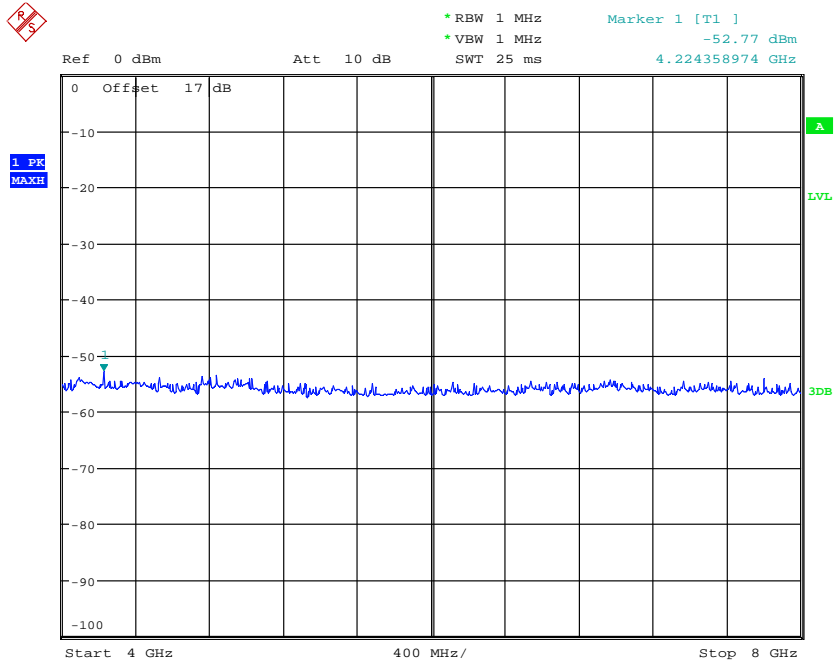


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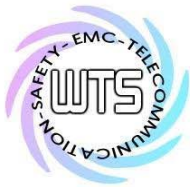
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Date: 7.DEC.2016 11:53:57

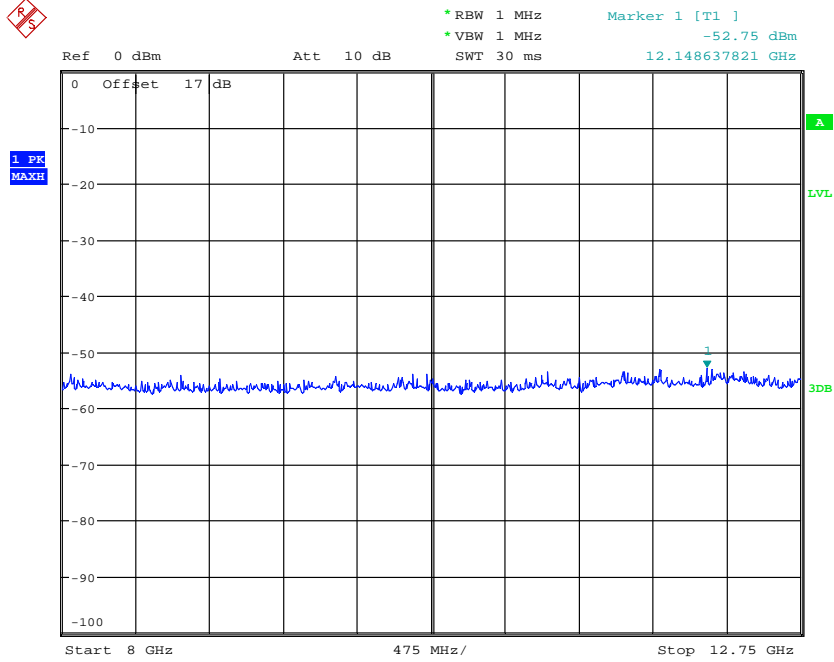


CONDUCTED SPURIOUS EMISSION GSM850 CH251

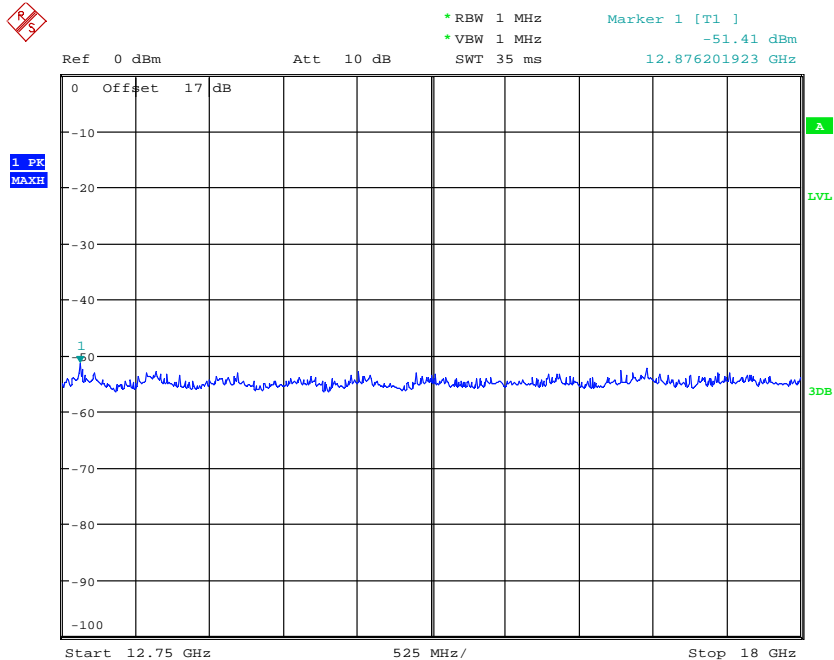
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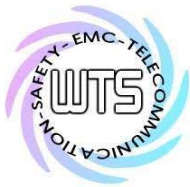
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FCC ID: 2AENAYPZN02



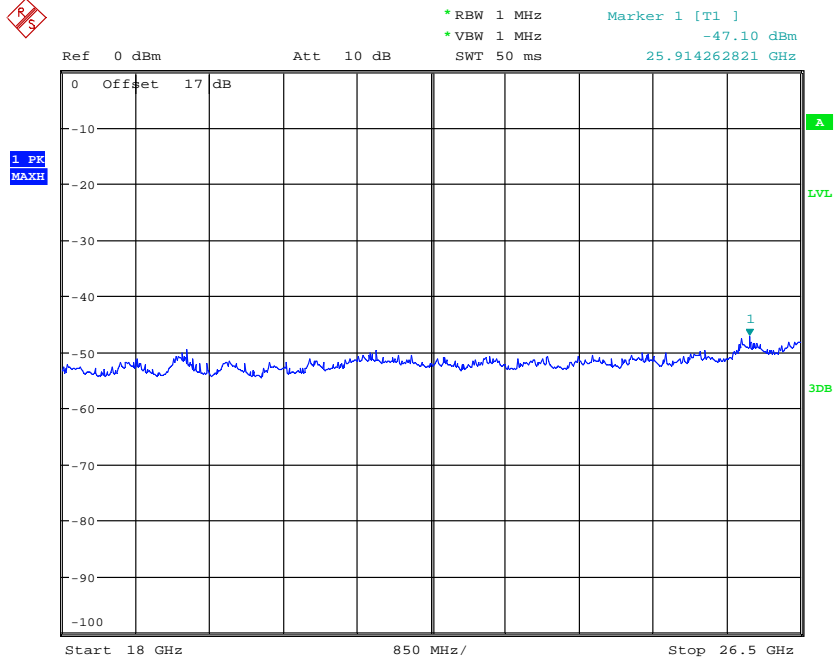
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Date: 7.DEC.2016 11:53:13



CONDUCTED SPURIOUS EMISSION GSM850 CH251
Date: 7.DEC.2016 11:52:58

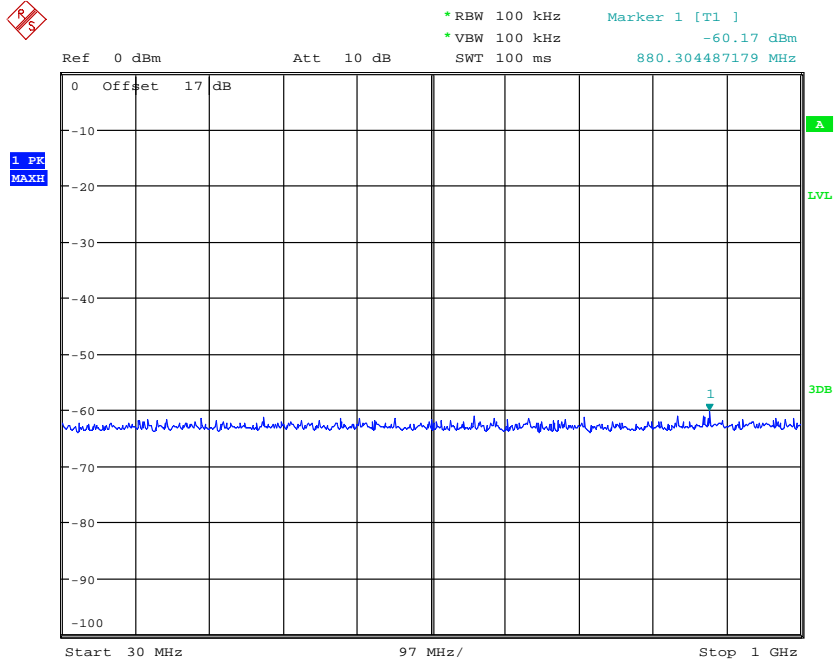


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



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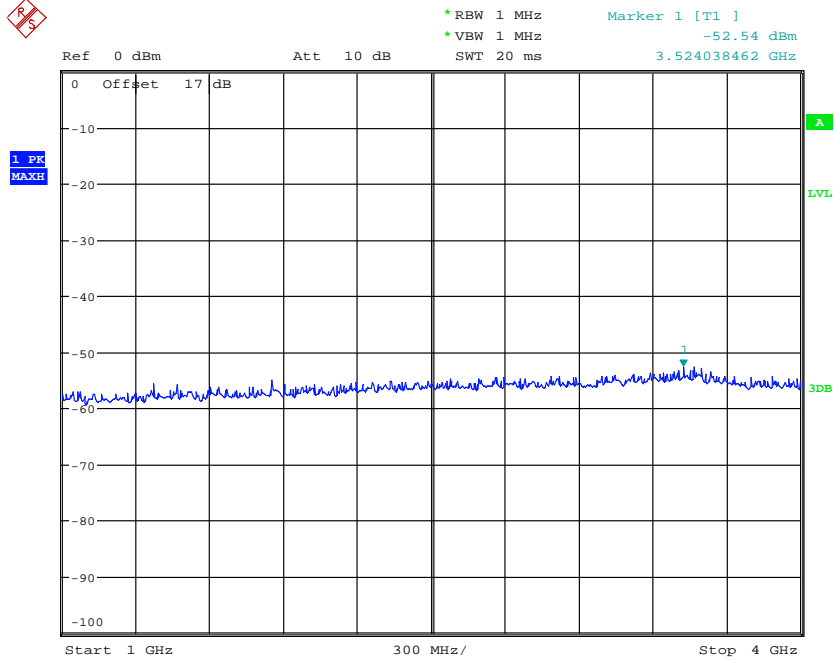
850 Band Idle



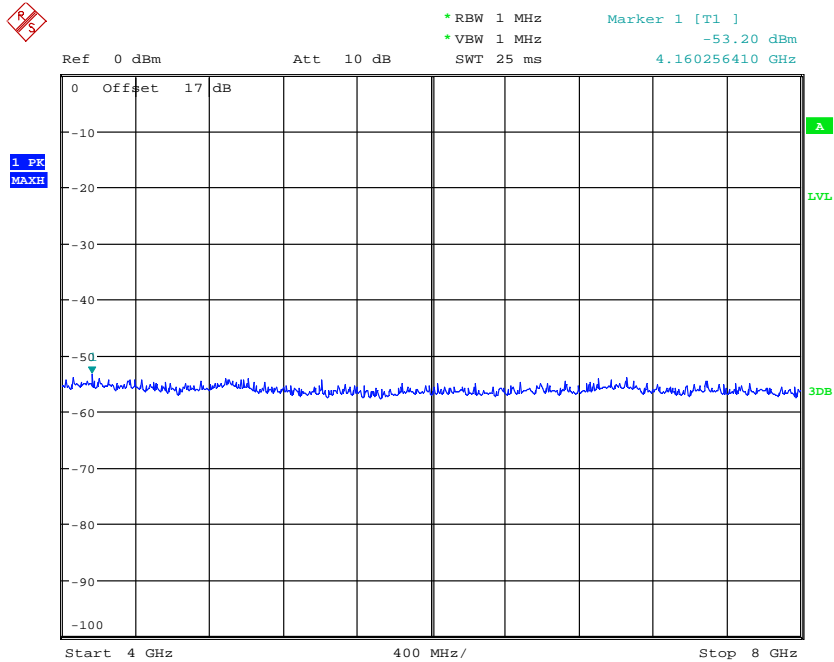
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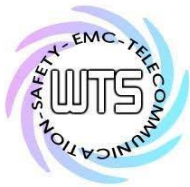
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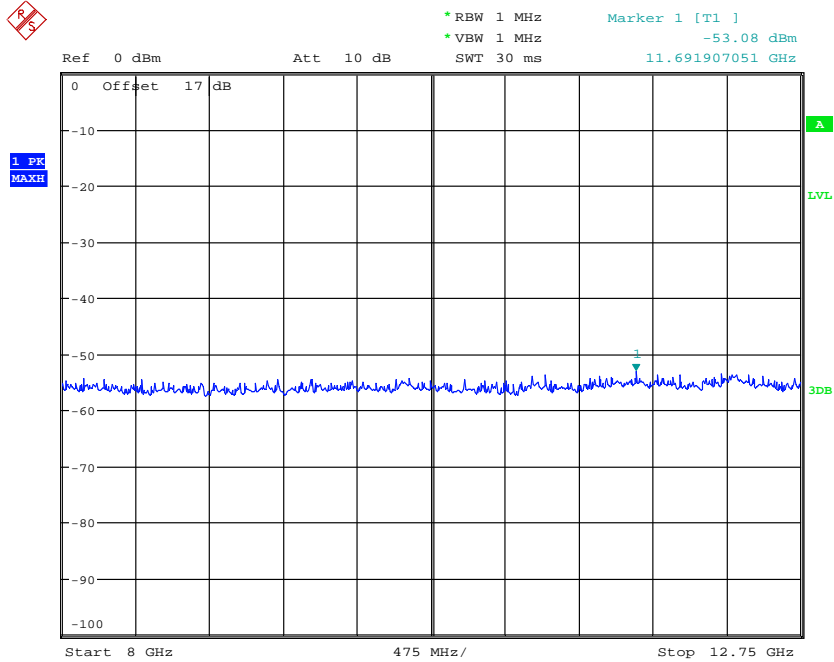
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Date: 7.DEC.2016 12:05:03



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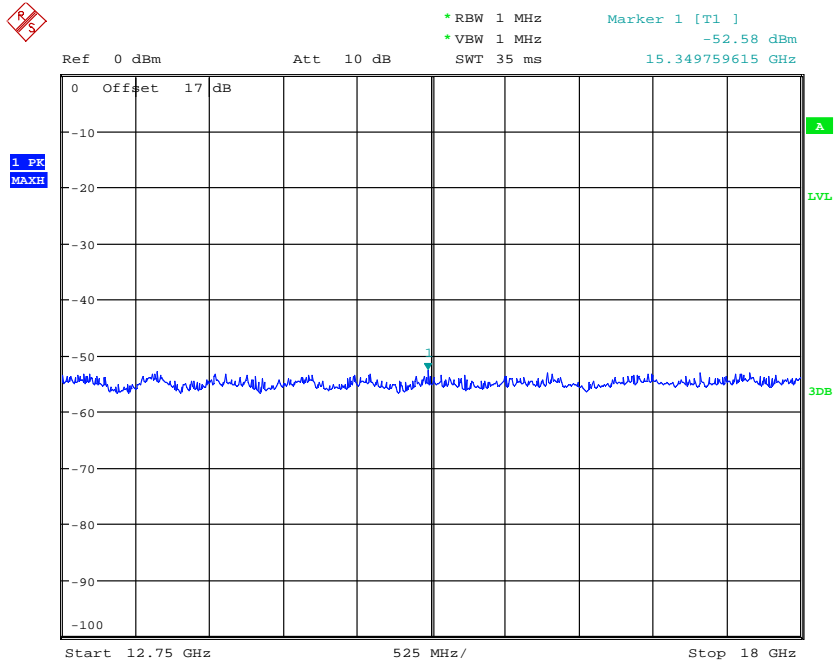


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM850 IDLE

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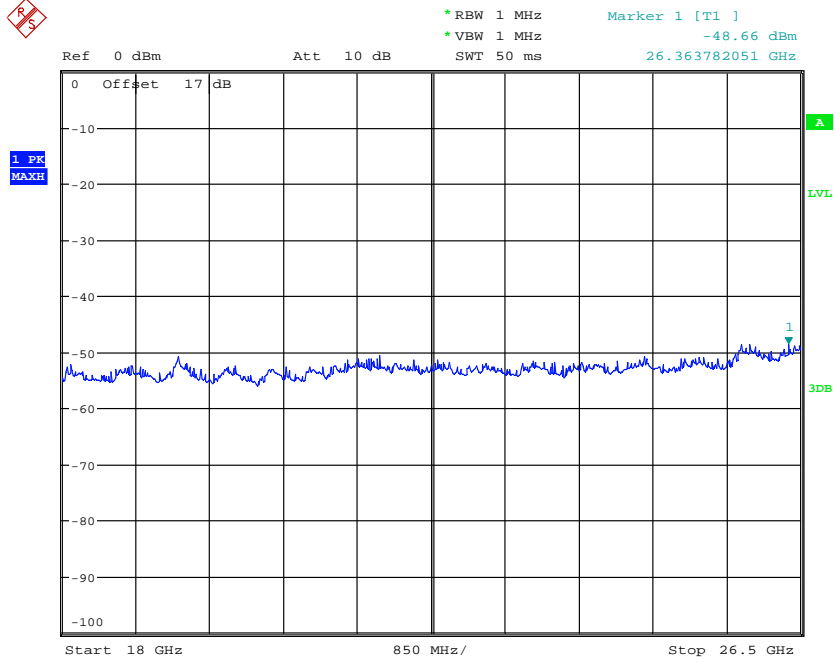


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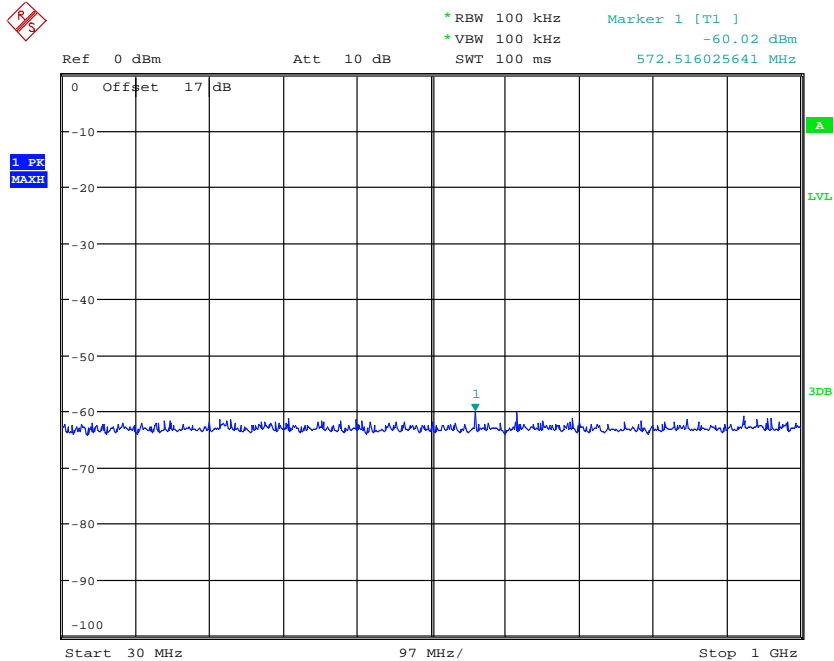


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM850 IDLE
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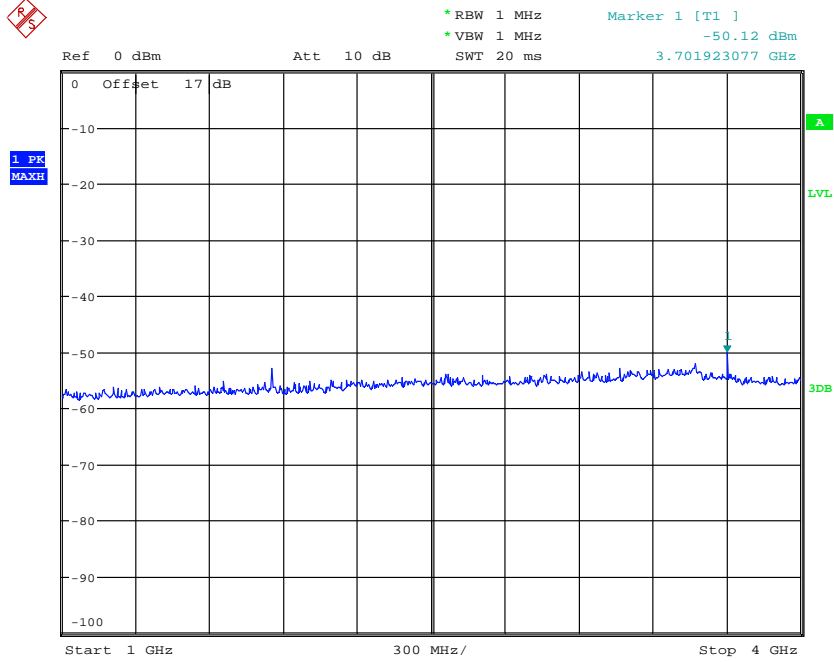
Band 1900 MHz
CH512



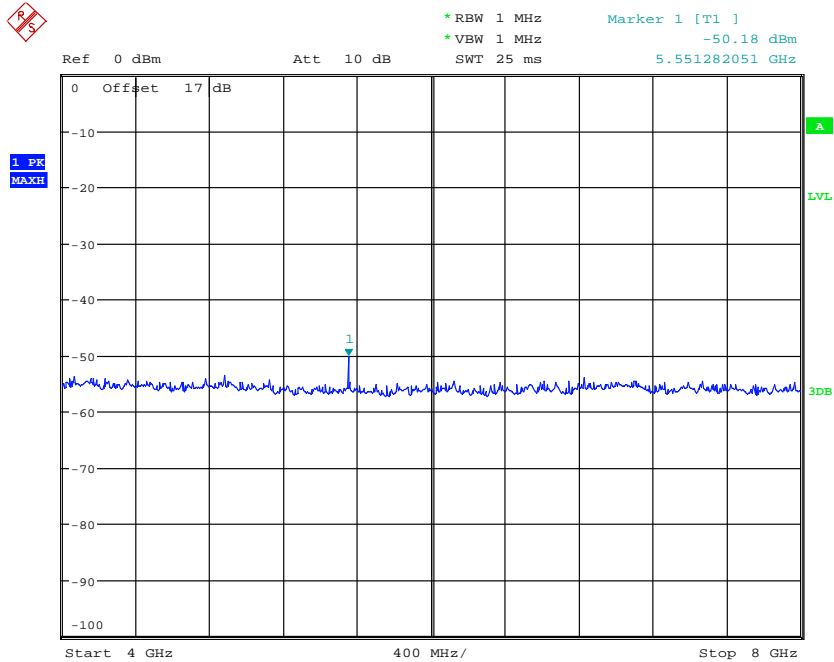
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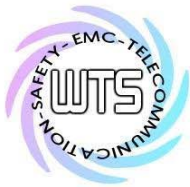
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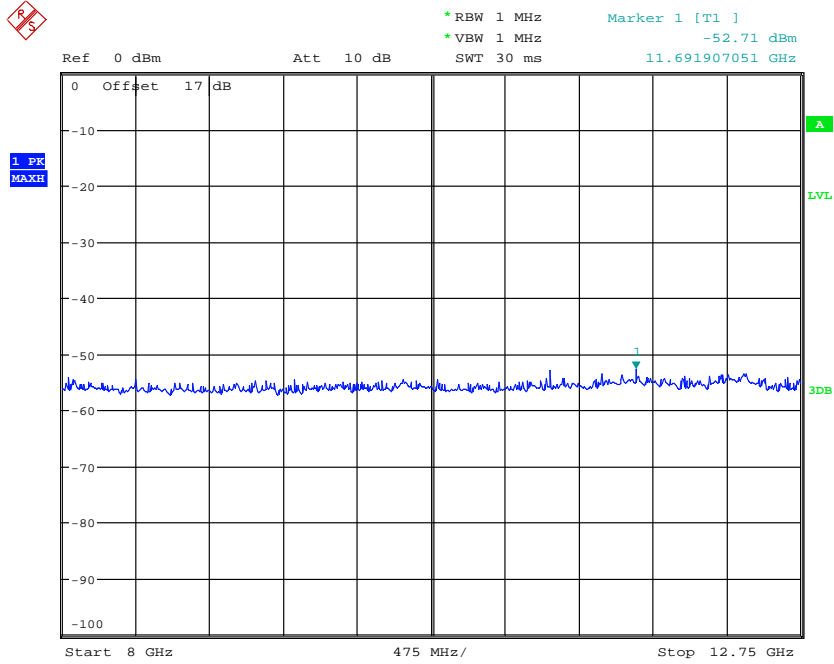
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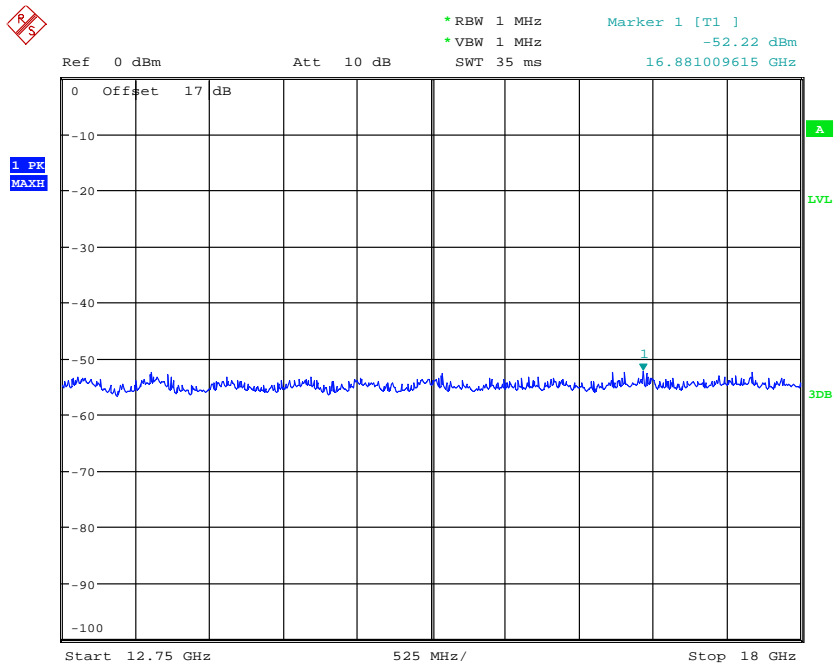
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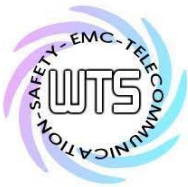
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



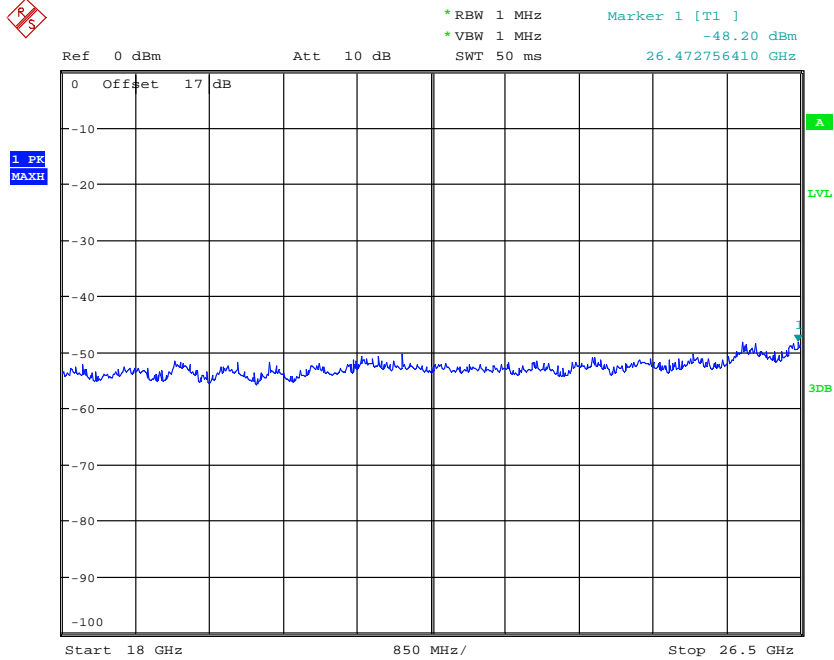
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Date: 7.DEC.2016 11:32:19



CONDUCTED SPURIOUS EMISSION GSM1900 CH512
Date: 7.DEC.2016 11:32:43

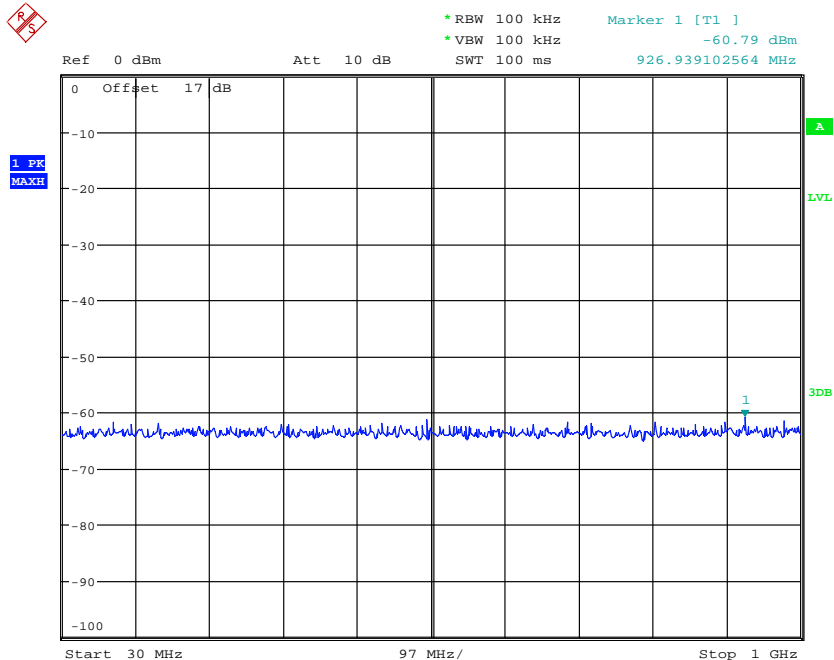


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM1900 CH512
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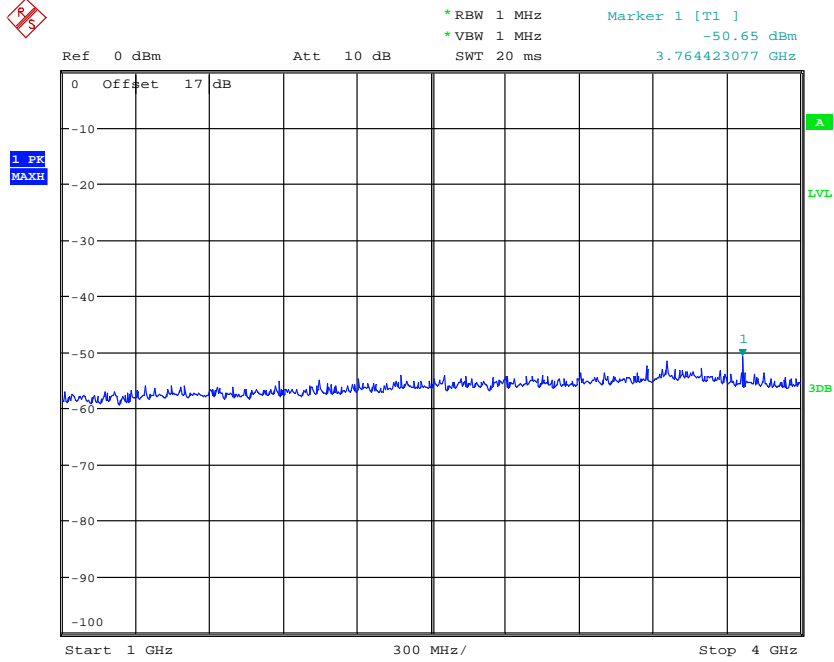
CH661



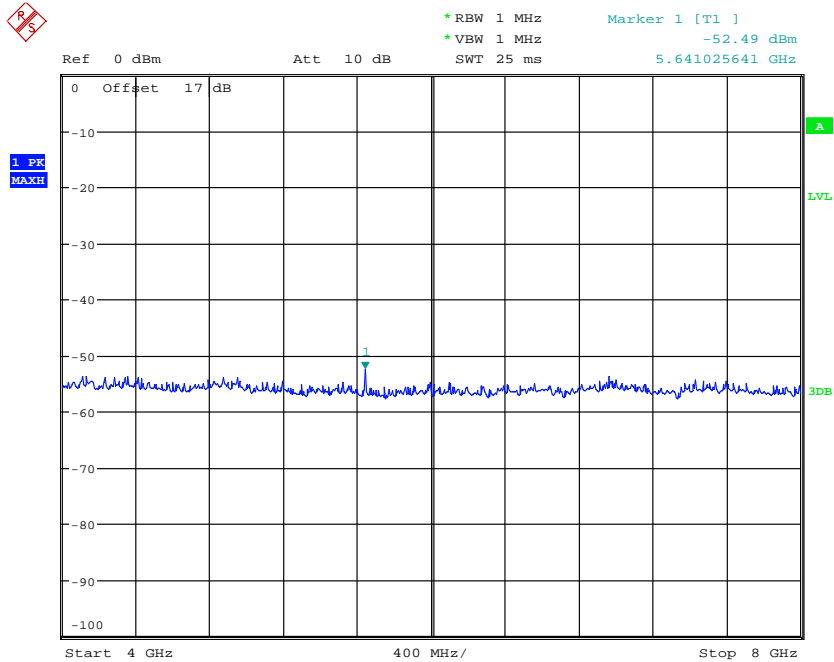
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Date: 7.DEC.2016 11:17:47



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



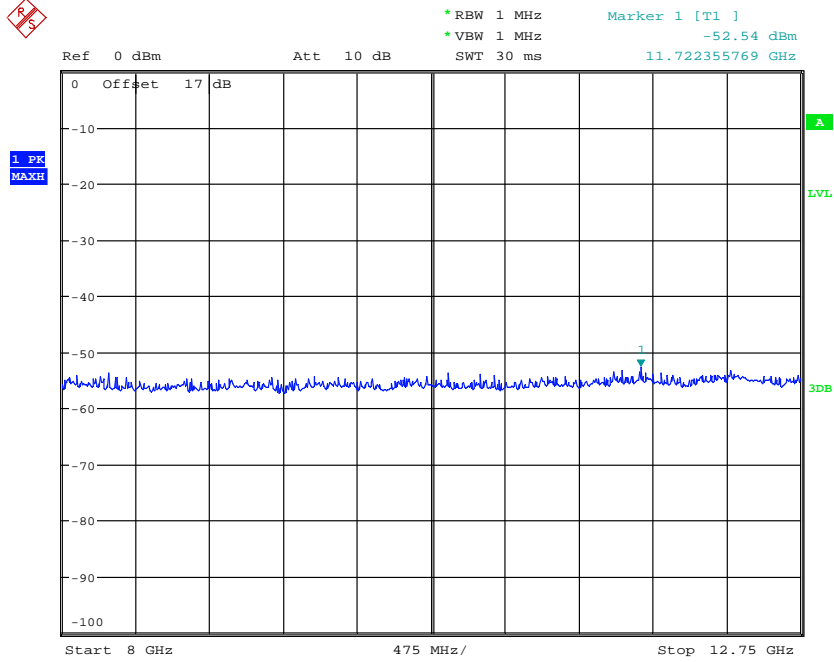
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Date: 7.DEC.2016 11:38:06



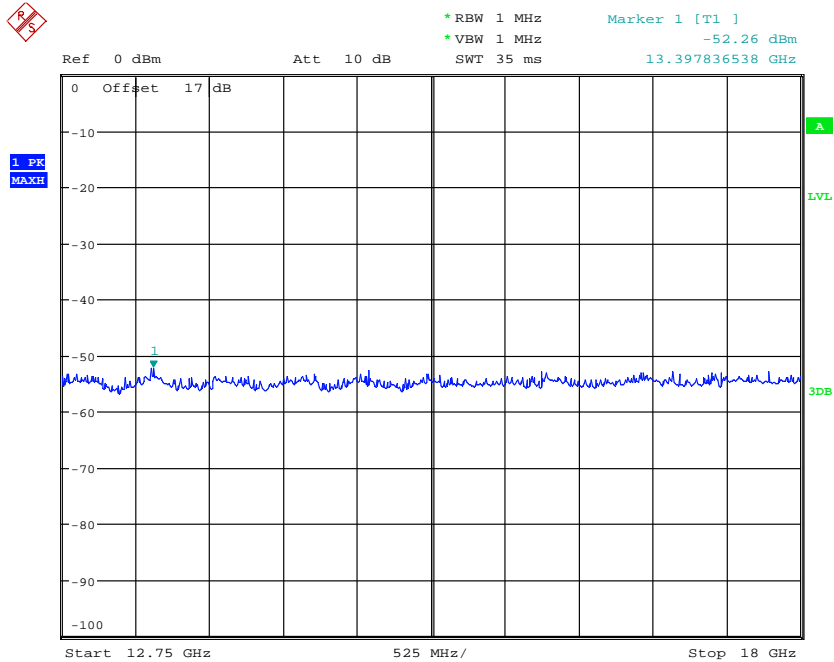
CONDUCTED SPURIOUS EMISSION GSM1900 CH661
Date: 7.DEC.2016 11:37:38



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



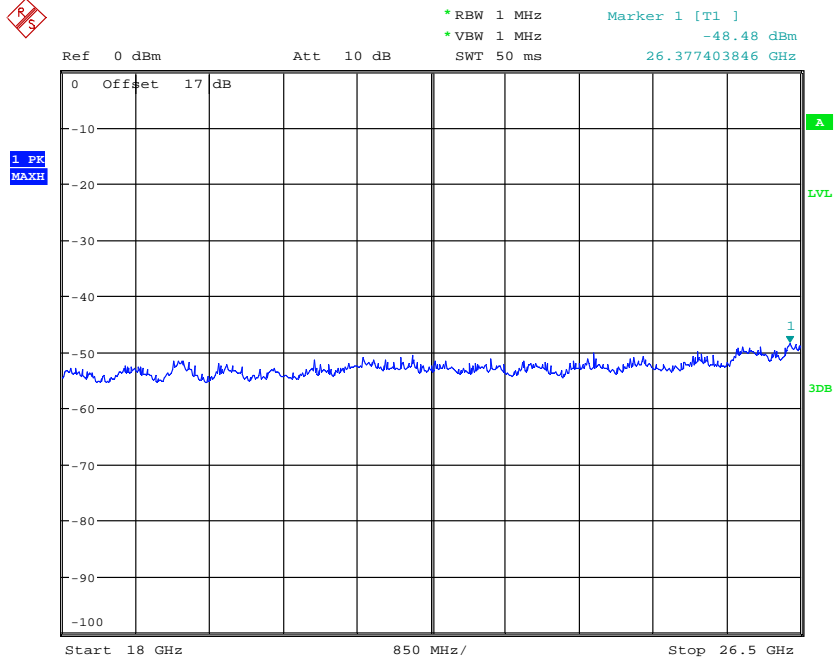
CONDUCTED SPURIOUS EMISSION GSM1900 CH661
Date: 7.DEC.2016 11:37:20



CONDUCTED SPURIOUS EMISSION GSM1900 CH661
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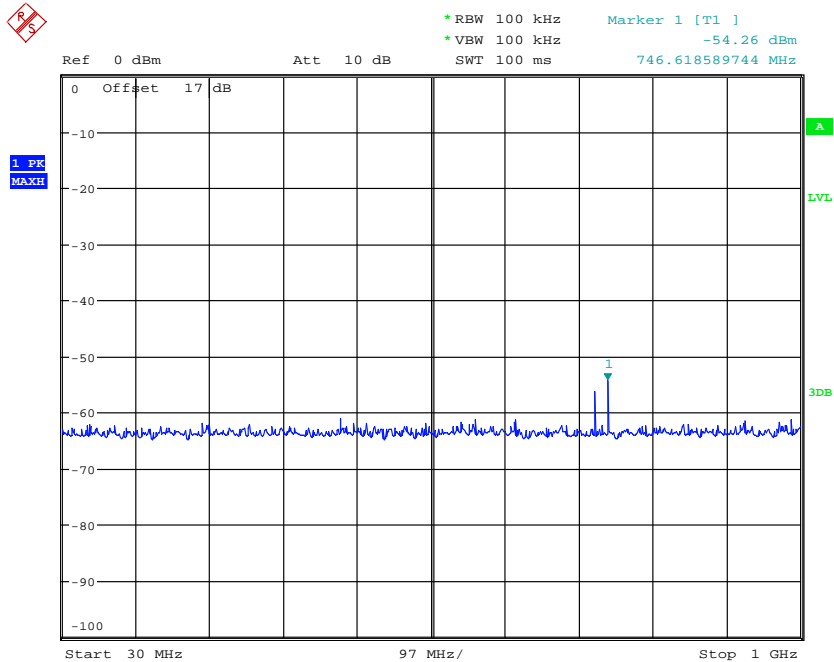


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM1900 CH661
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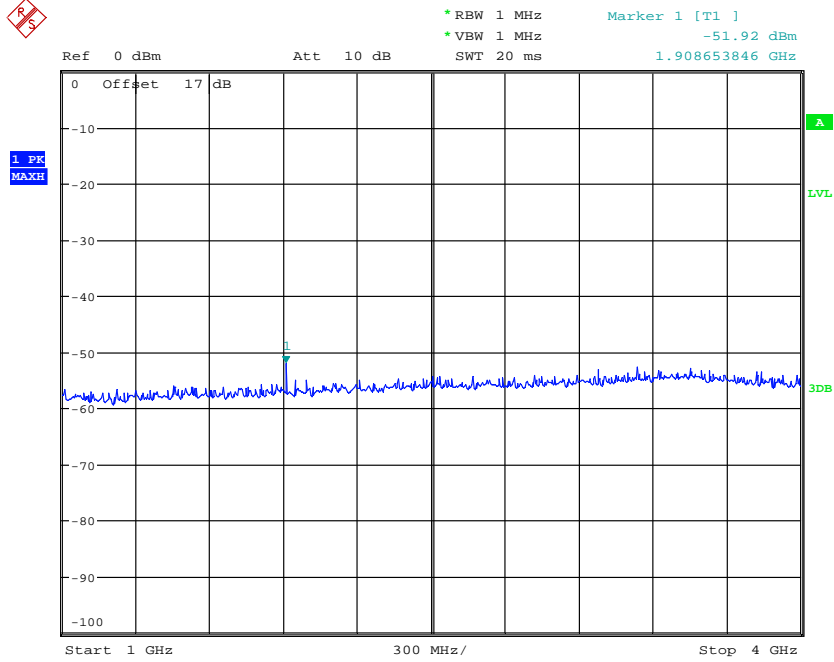
CH810



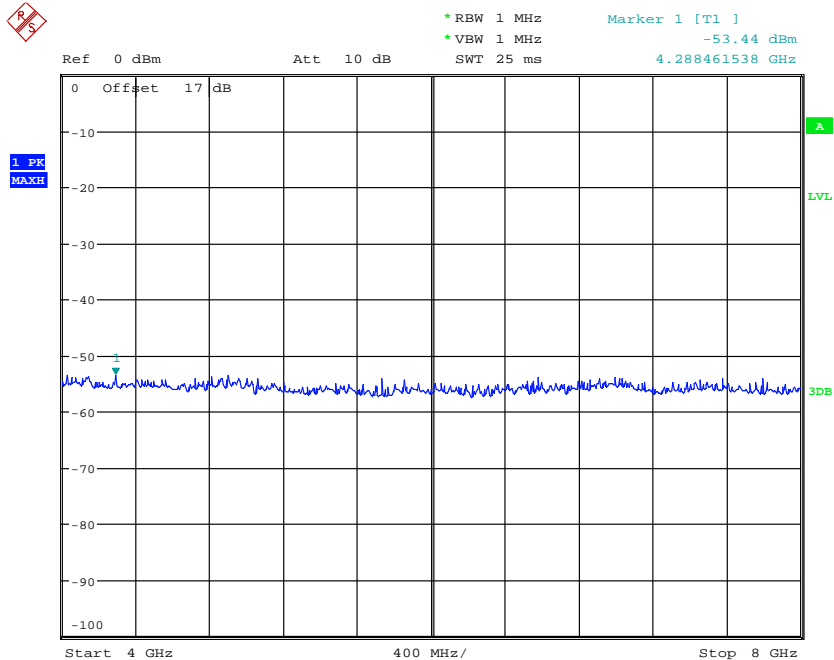
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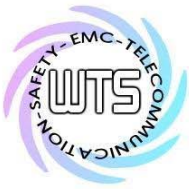
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



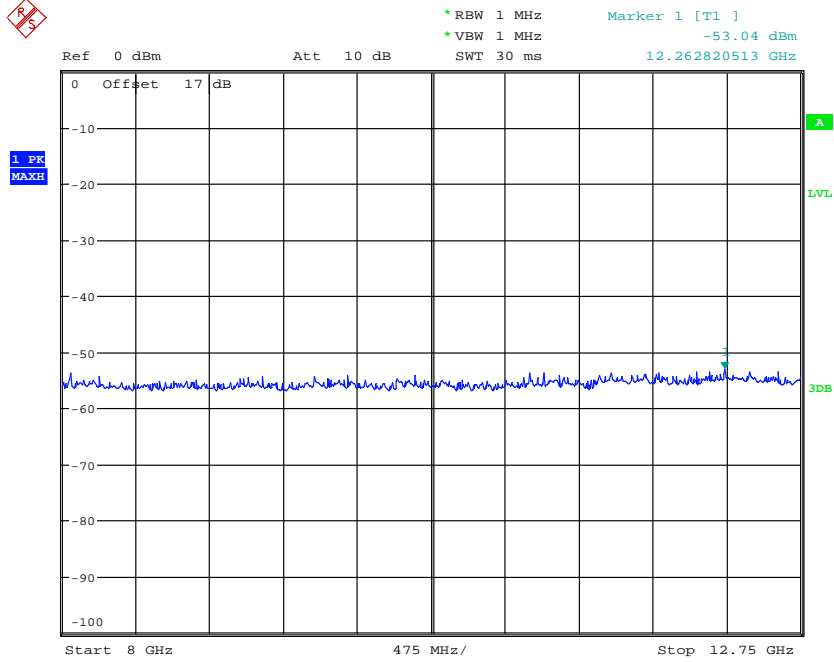
CONDUCTED SPURIOUS EMISSION GSM1900 CH810
Date: 7.DEC.2016 11:38:41



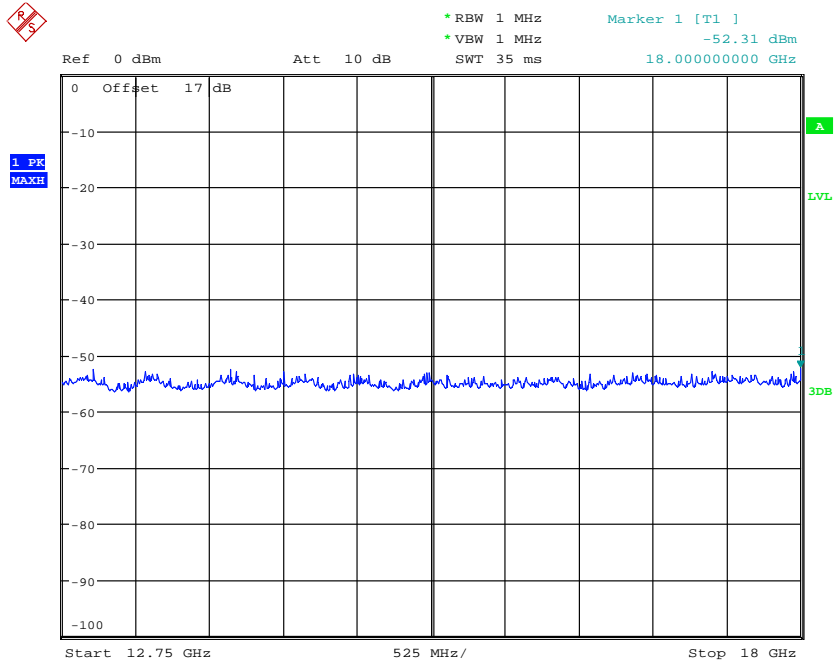
CONDUCTED SPURIOUS EMISSION GSM1900 CH810
Date: 7.DEC.2016 11:39:10



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



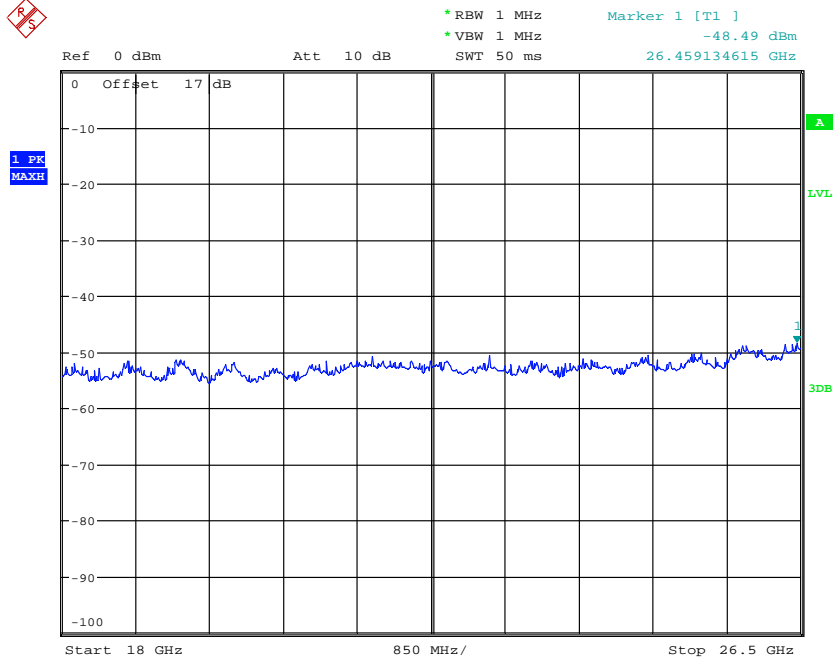
CONDUCTED SPURIOUS EMISSION GSM1900 CH810
Date: 7.DEC.2016 11:39:53



CONDUCTED SPURIOUS EMISSION GSM1900 CH810
Date: 7.DEC.2016 11:40:15

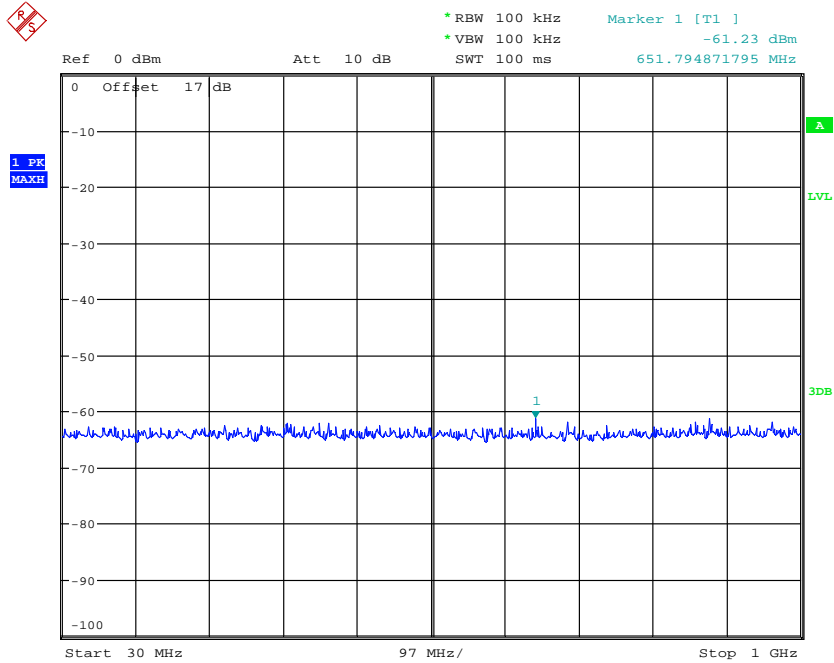


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02

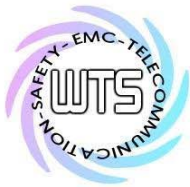


CONDUCTED SPURIOUS EMISSION GSM1900 CH810
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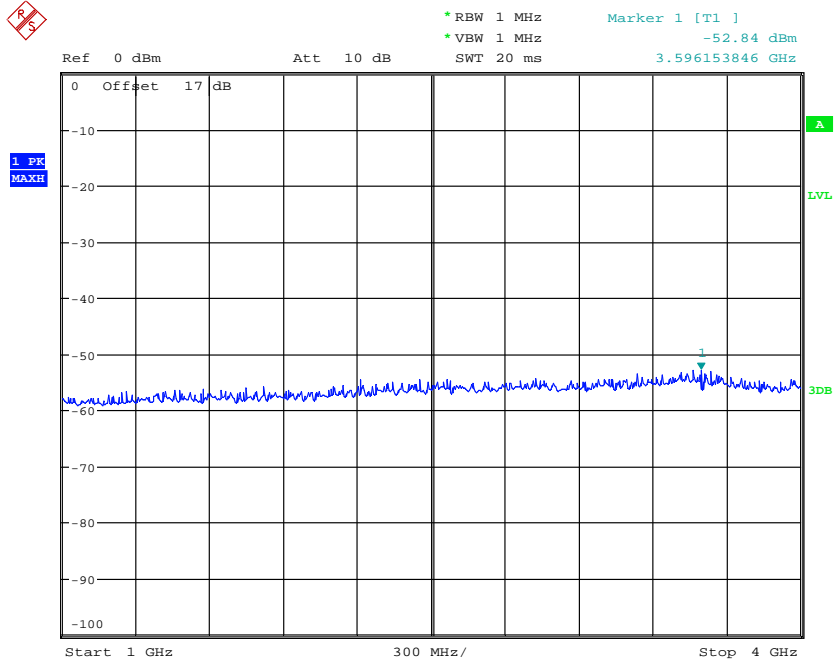
1900 Band Idle



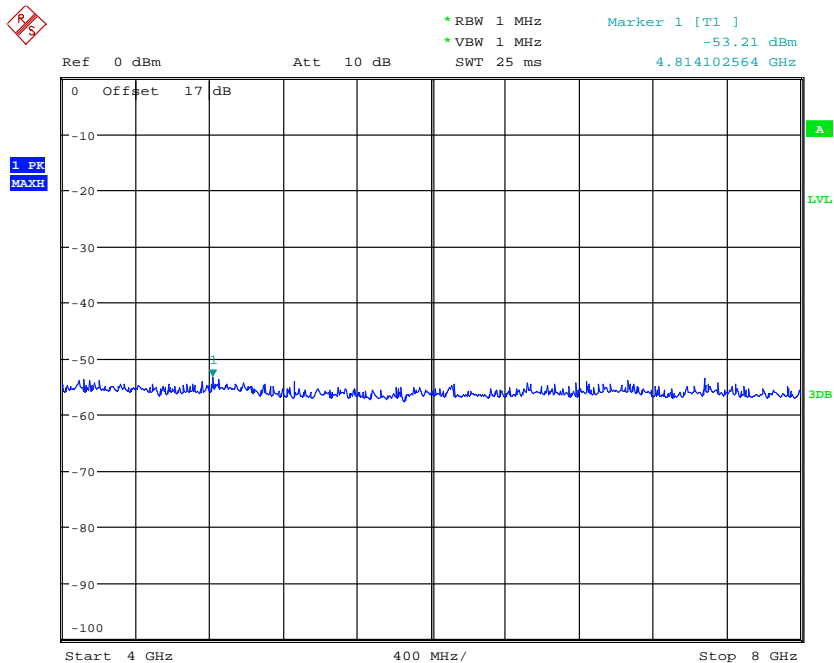
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Date: 7.DEC.2016 12:08:52



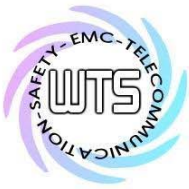
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



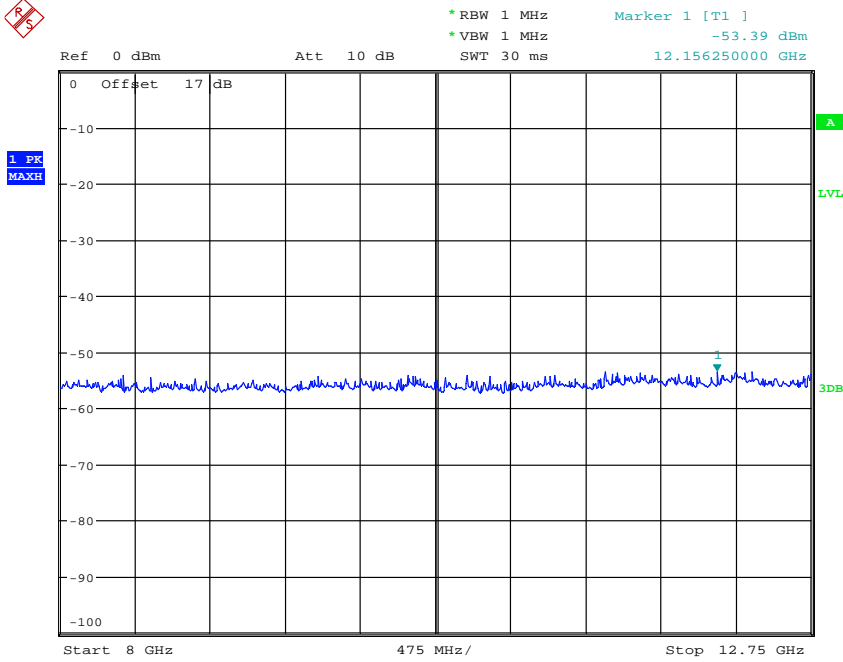
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Date: 7.DEC.2016 12:08:32



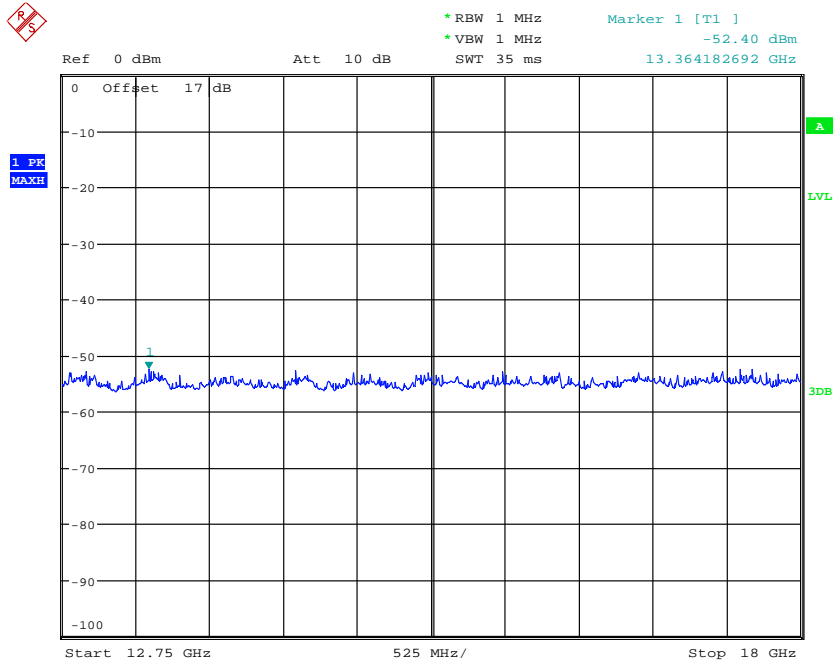
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Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



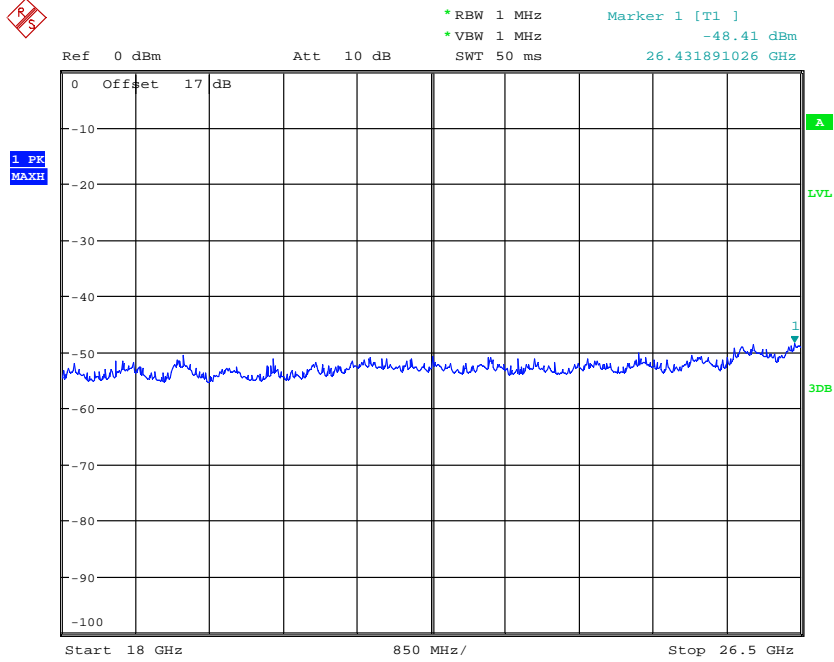
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Date: 7.DEC.2016 12:07:56



CONDUCTED SPURIOUS EMISSION GSM1900 IDLE
Date: 7.DEC.2016 12:07:39



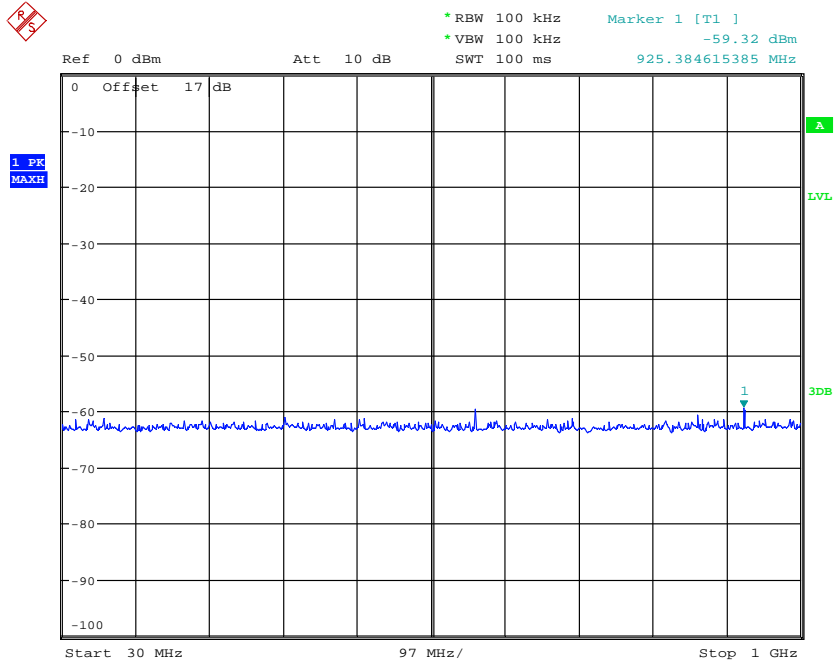
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION GSM1900 IDLE

Date: 7.DEC.2016 12:07:21

Band II
CH9262

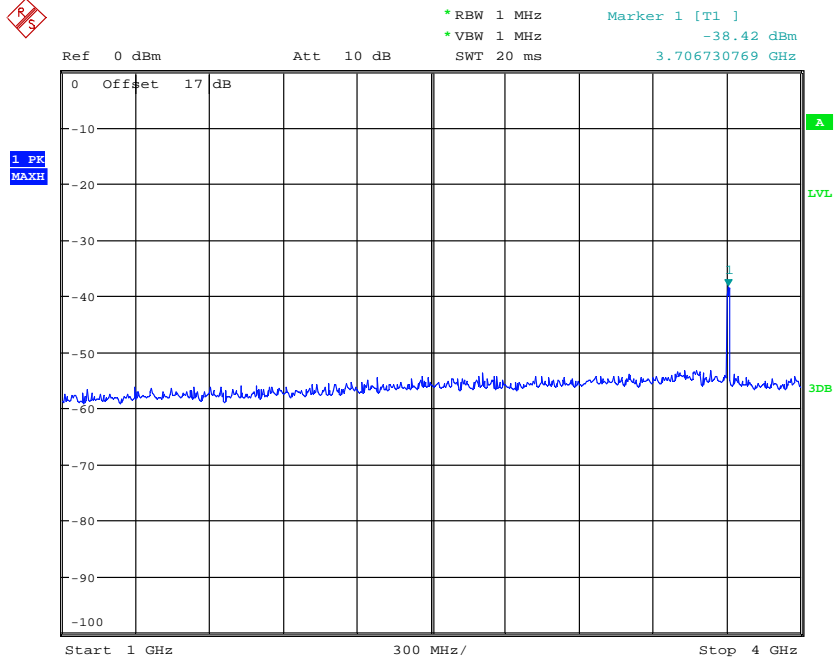


CONDUCTED SPURIOUS EMISSION BANDII CH9262

Date: 7.DEC.2016 11:22:09

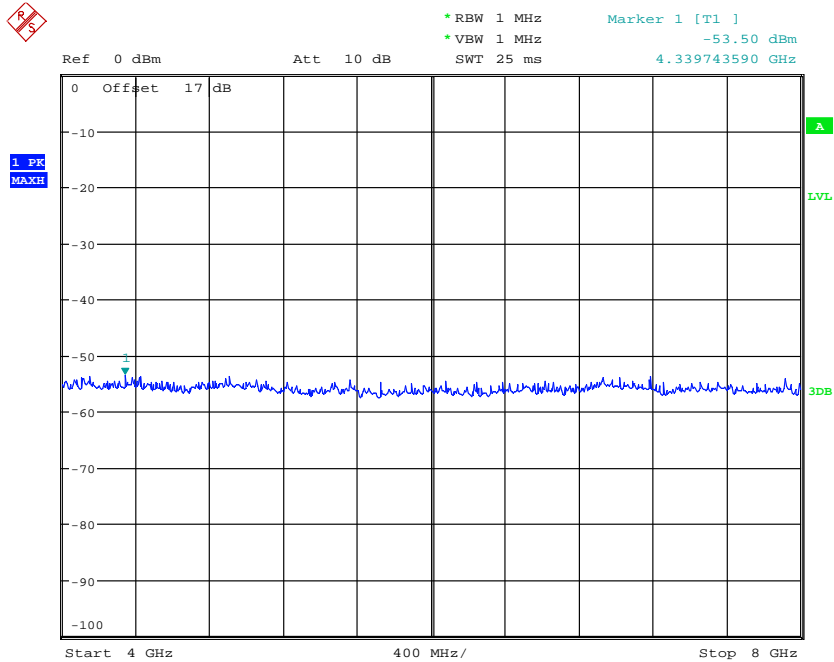


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9262

Date: 7.DEC.2016 14:22:31

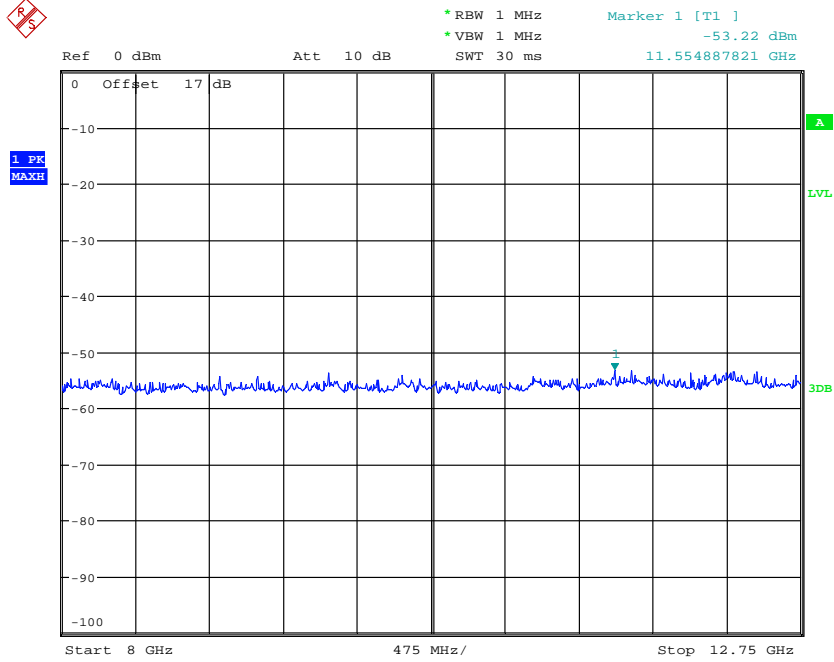


CONDUCTED SPURIOUS EMISSION BANDII CH9262

Date: 7.DEC.2016 14:21:46

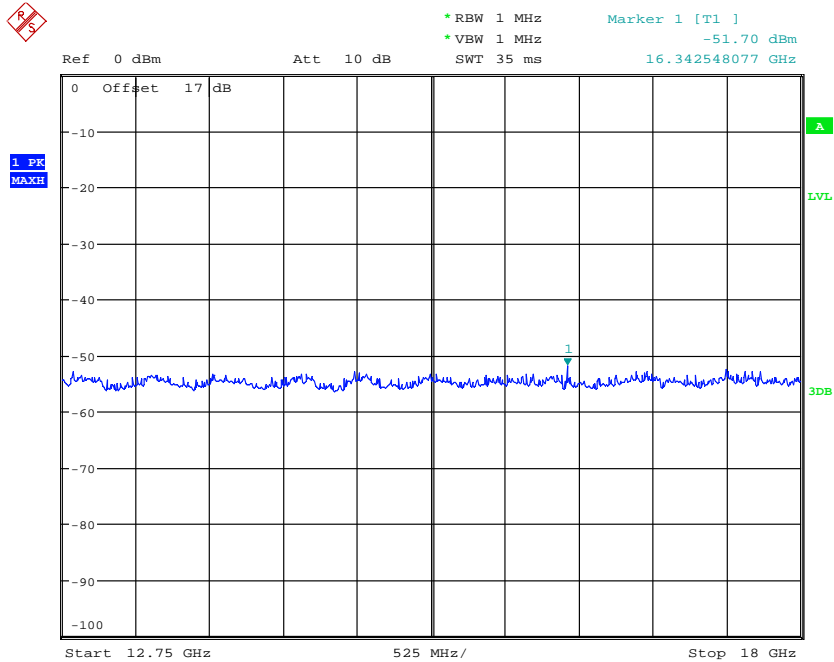


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9262

Date: 7.DEC.2016 14:21:23

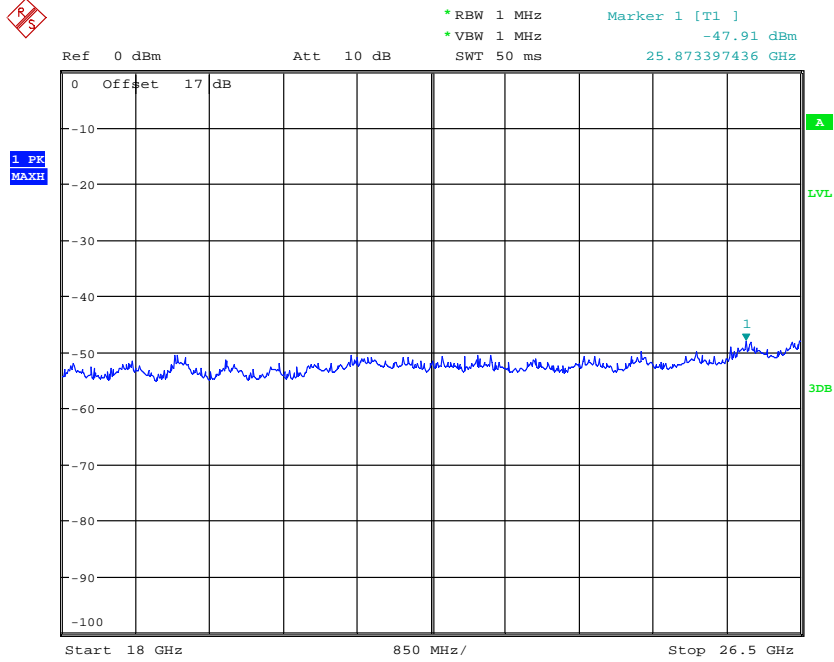


CONDUCTED SPURIOUS EMISSION BANDII CH9262

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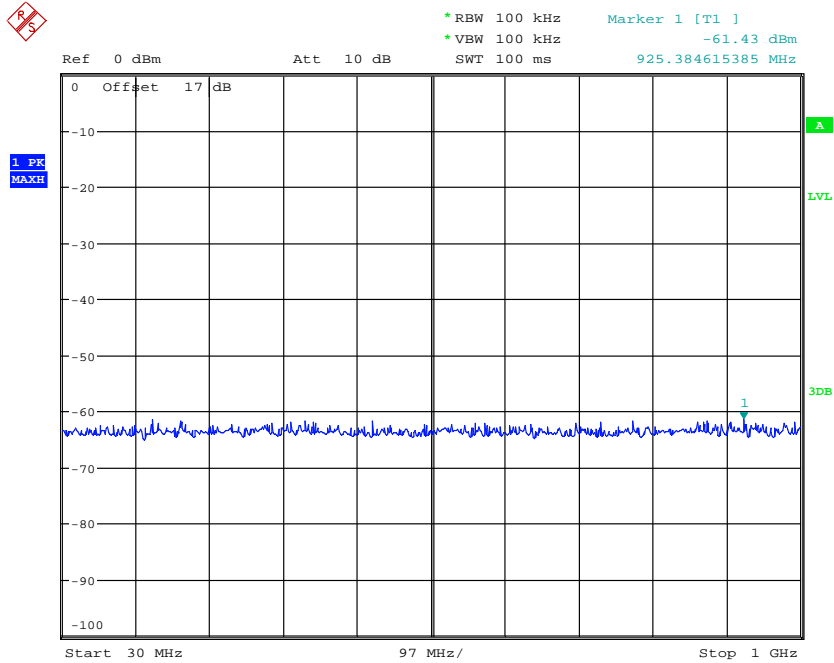


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



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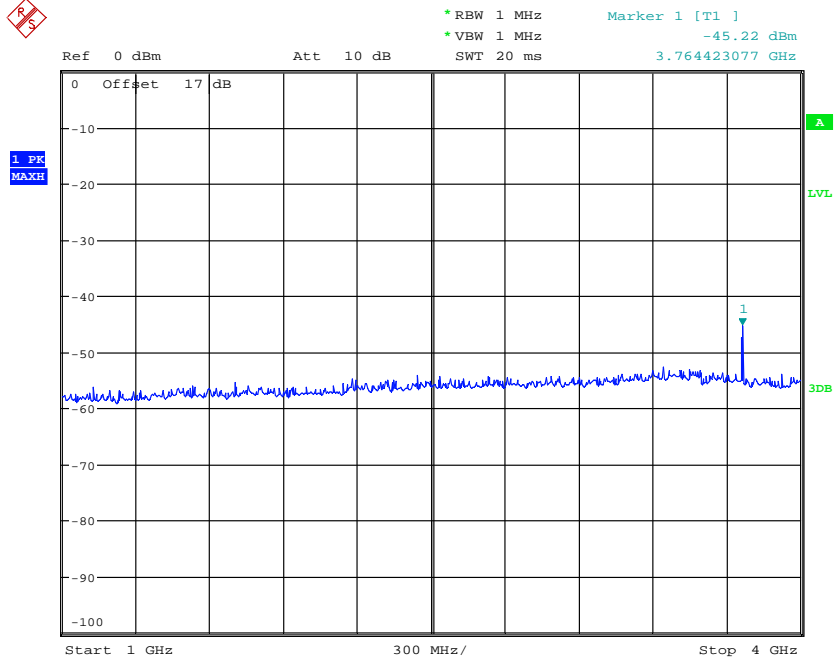
CH 9400



CONDUCTED SPURIOUS EMISSION BANDII CH9400
Date: 7.DEC.2016 11:23:10

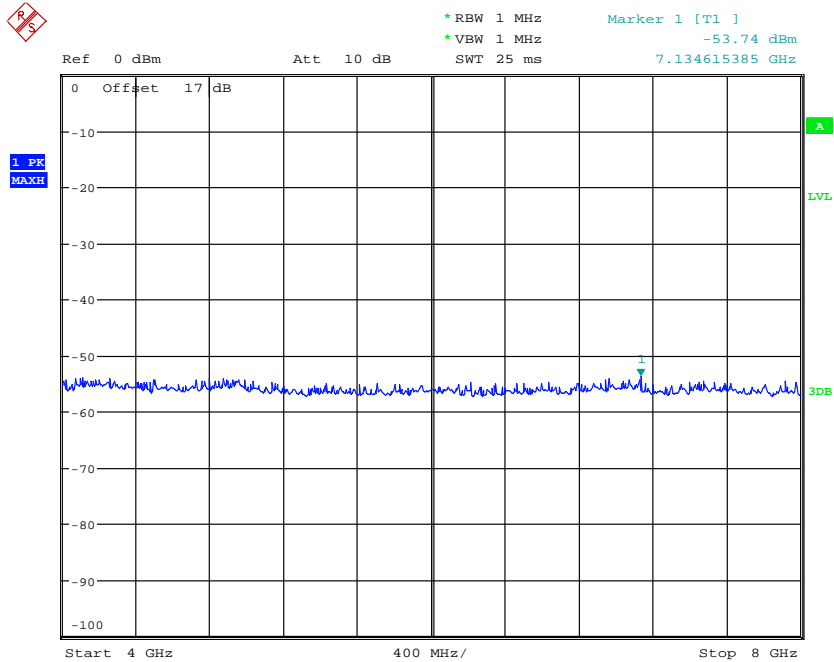


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



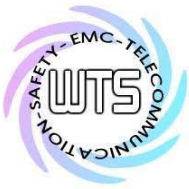
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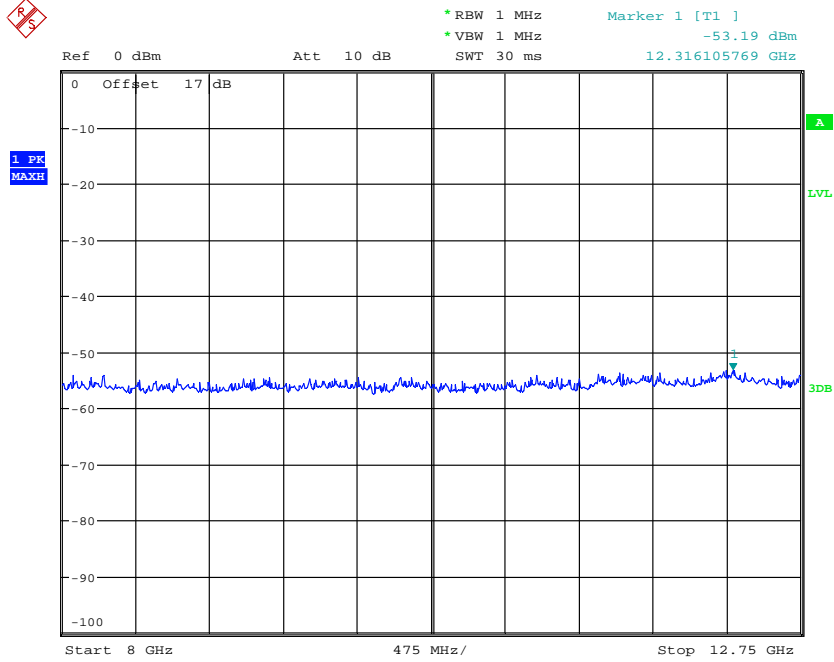


CONDUCTED SPURIOUS EMISSION BANDII CH9400

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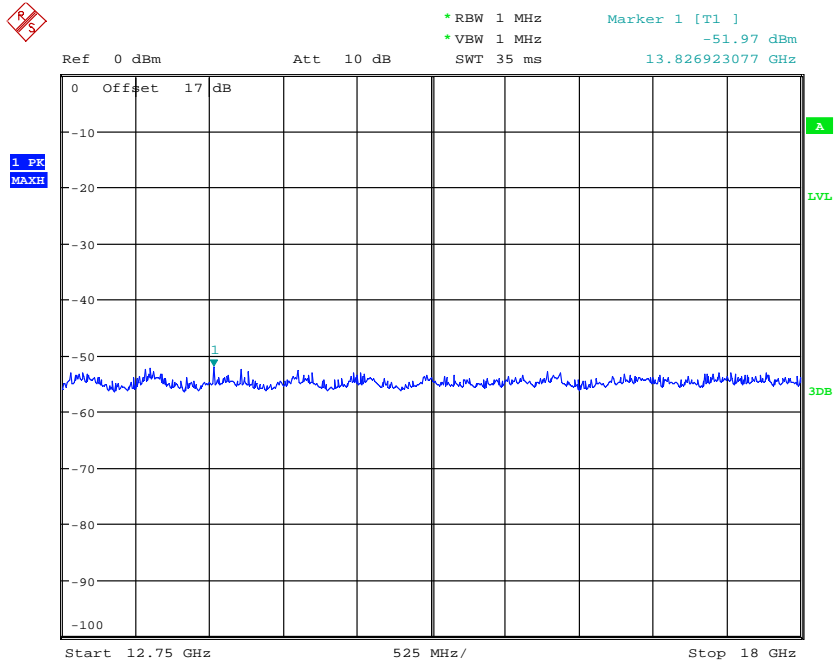


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



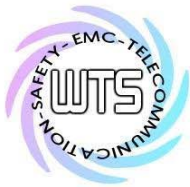
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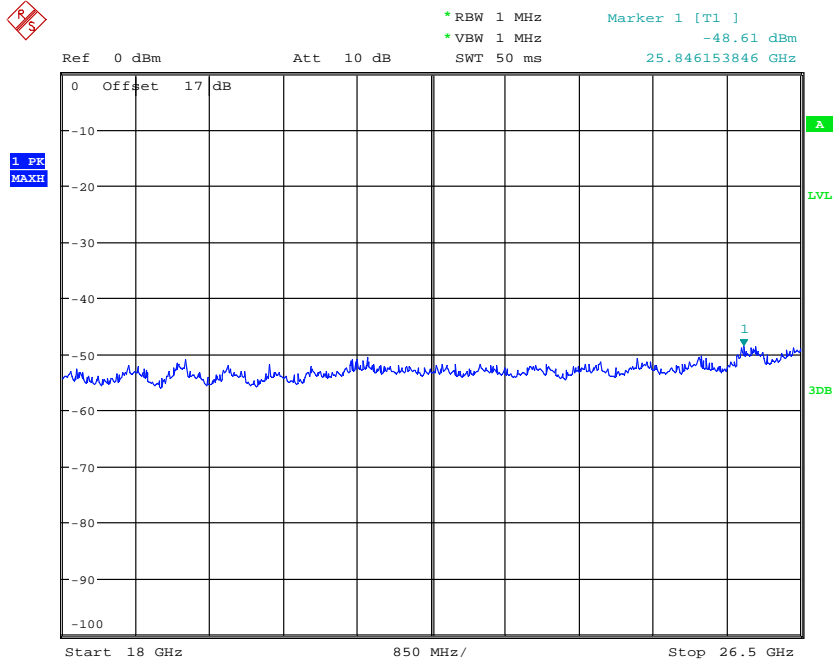


CONDUCTED SPURIOUS EMISSION BANDII CH9400

Date: 7.DEC.2016 14:24:03



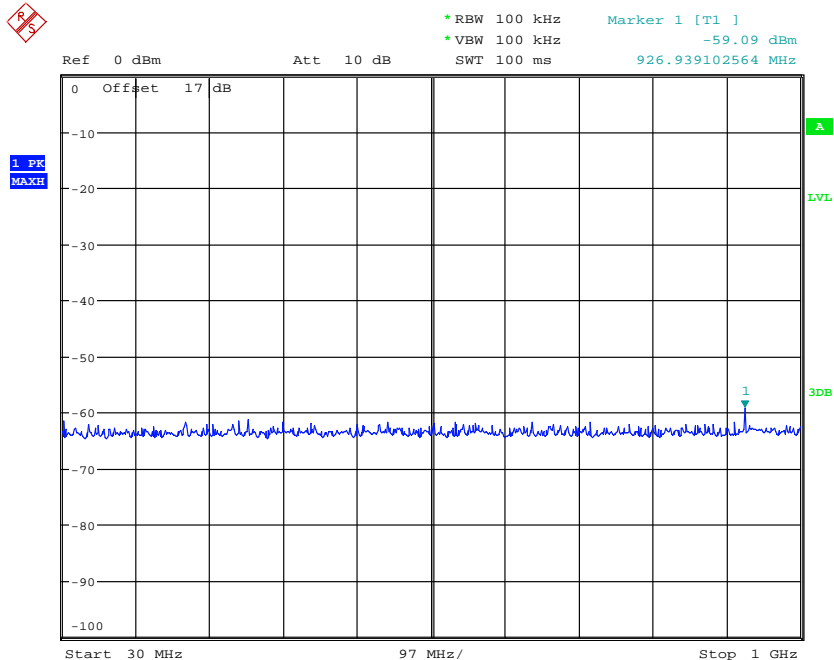
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9400

Date: 7.DEC.2016 14:26:12

CH 9538

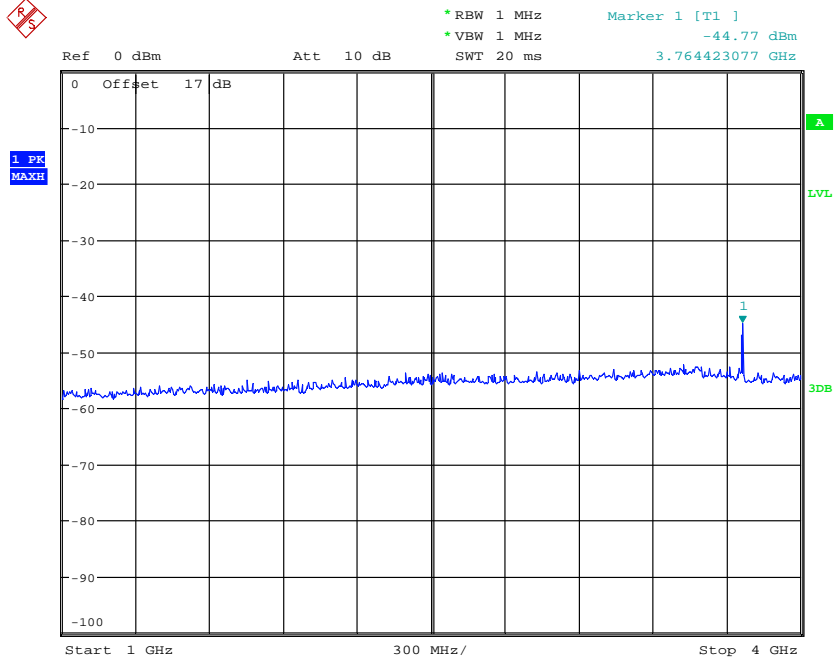


CONDUCTED SPURIOUS EMISSION BANDII CH9538

Date: 7.DEC.2016 11:23:43

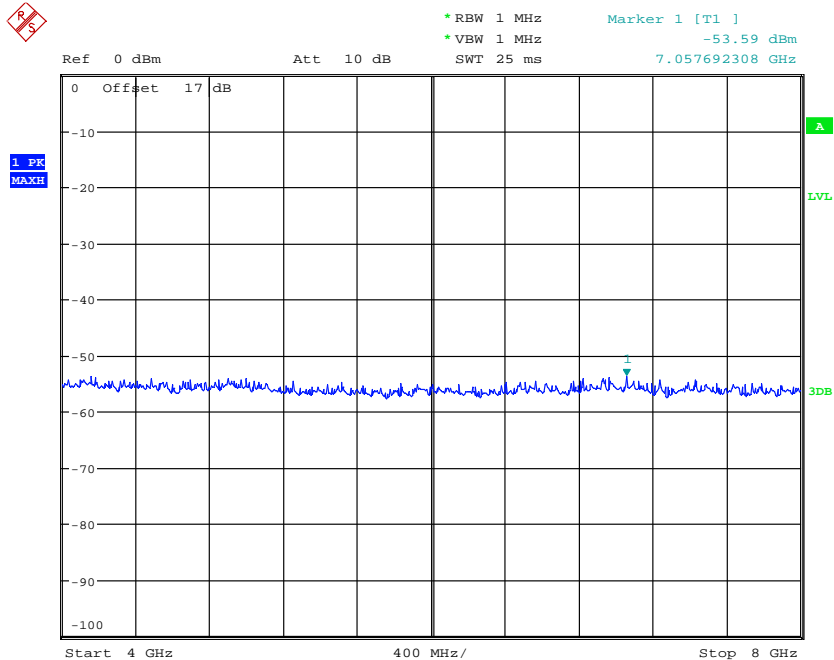


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9538

Date: 7.DEC.2016 14:29:06

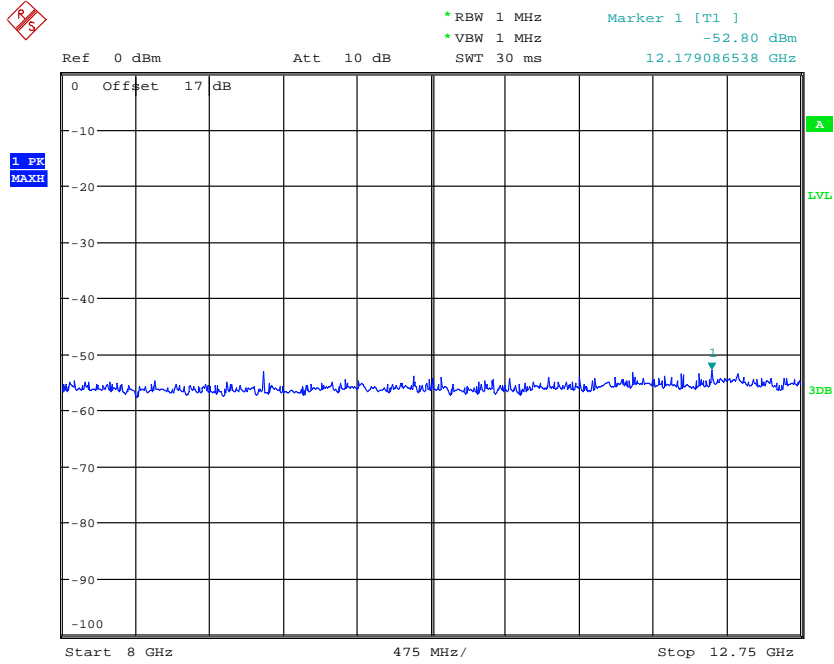


CONDUCTED SPURIOUS EMISSION BANDII CH9538

Date: 7.DEC.2016 14:27:39

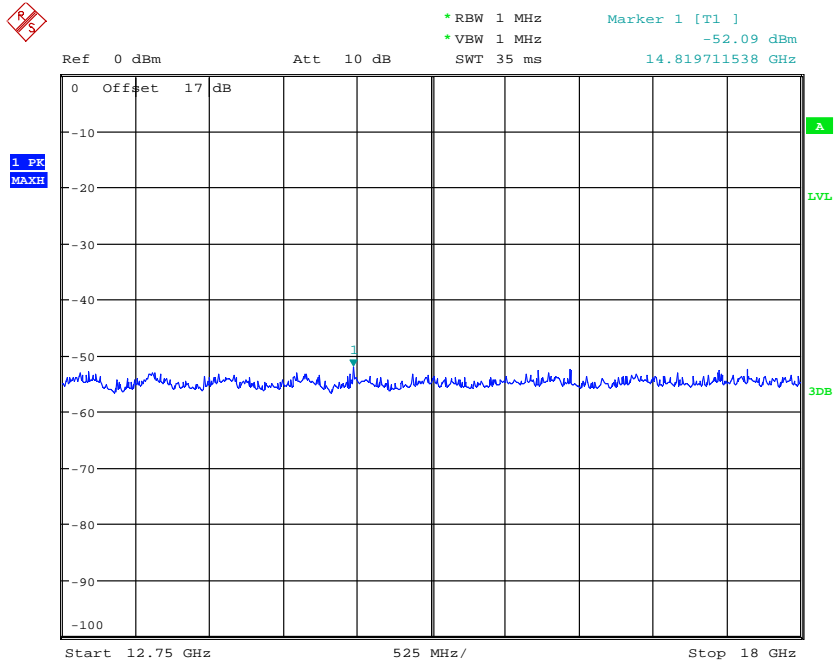


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9538

Date: 7.DEC.2016 14:27:20

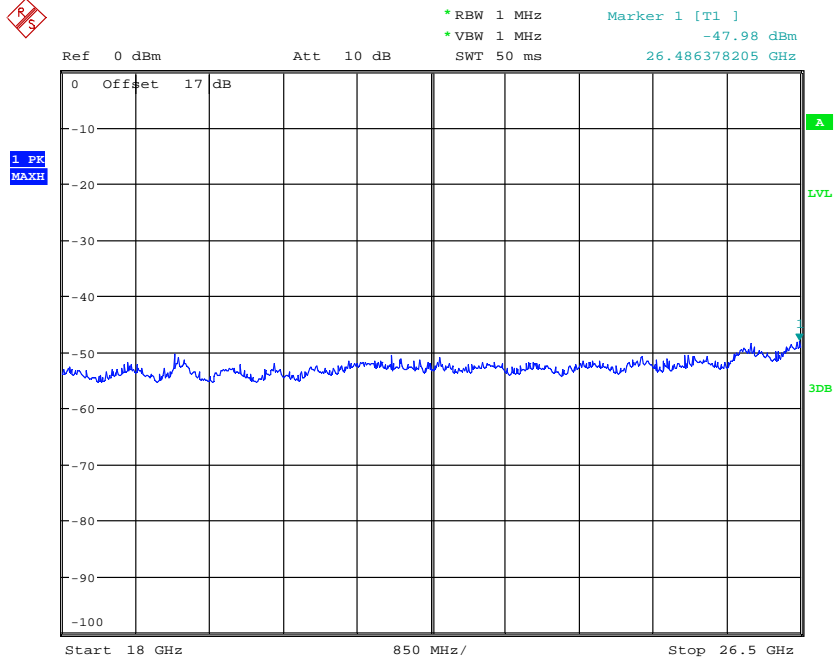


CONDUCTED SPURIOUS EMISSION BANDII CH9538

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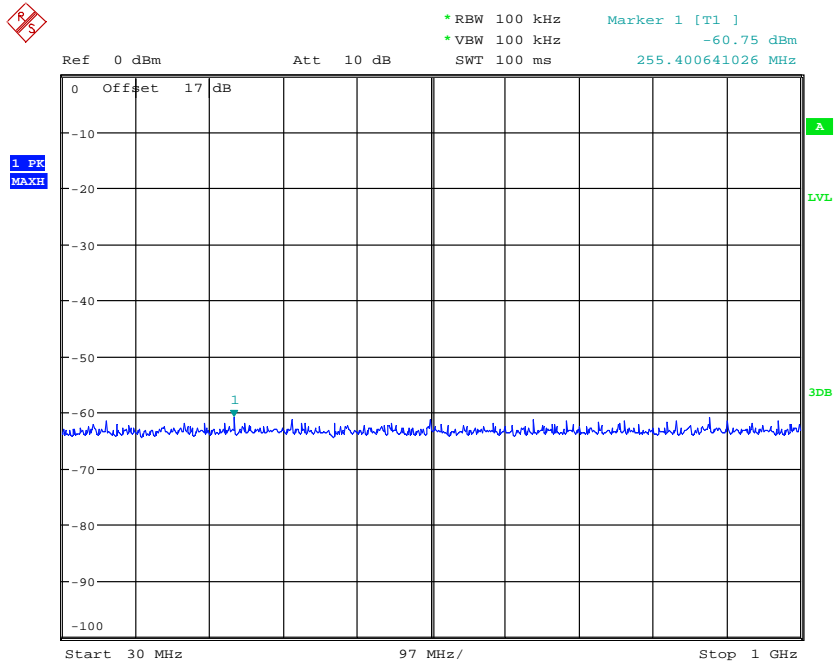


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDII CH9538
Date: 7.DEC.2016 14:26:38

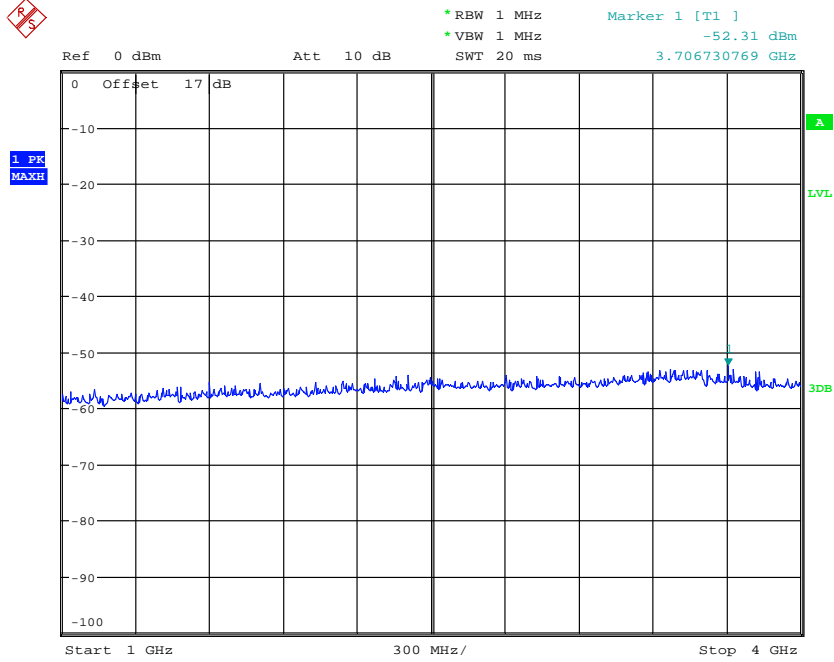
Band II Idle



CONDUCTED SPURIOUS EMISSION BANDII IDLE
Date: 7.DEC.2016 12:10:17

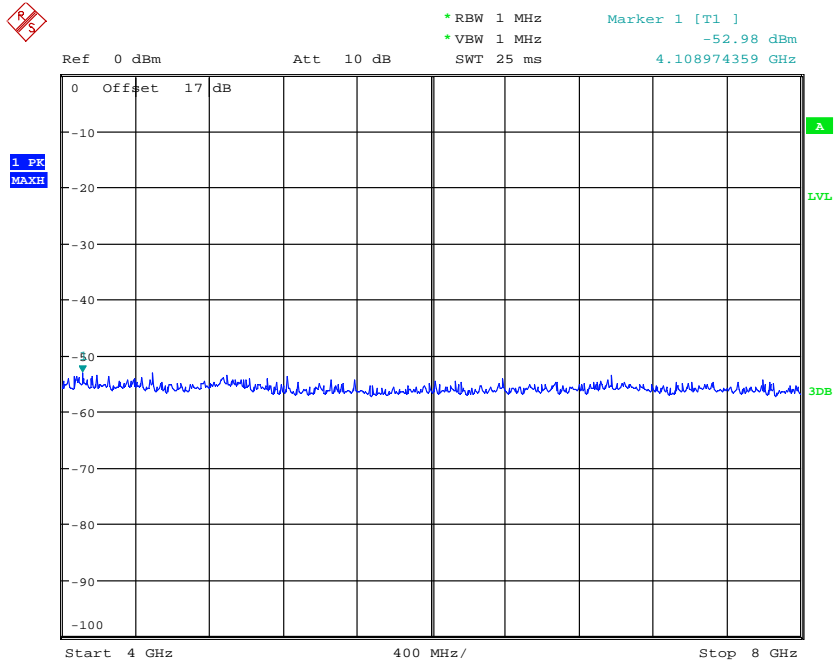


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FCC ID: 2AENAYPZN02



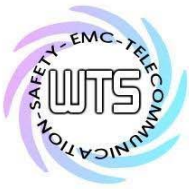
CONDUCTED SPURIOUS EMISSION BANDII IDLE

Date: 7.DEC.2016 12:21:10

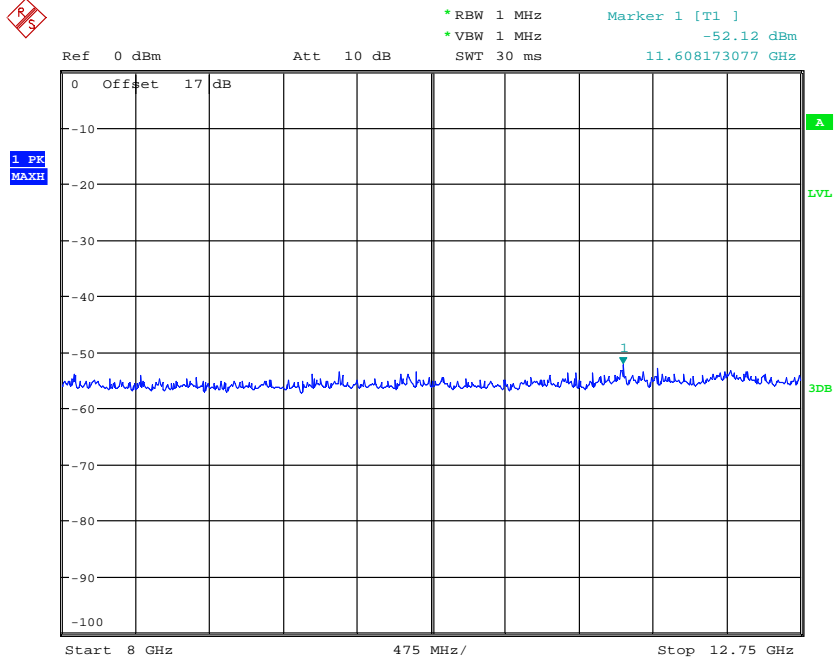


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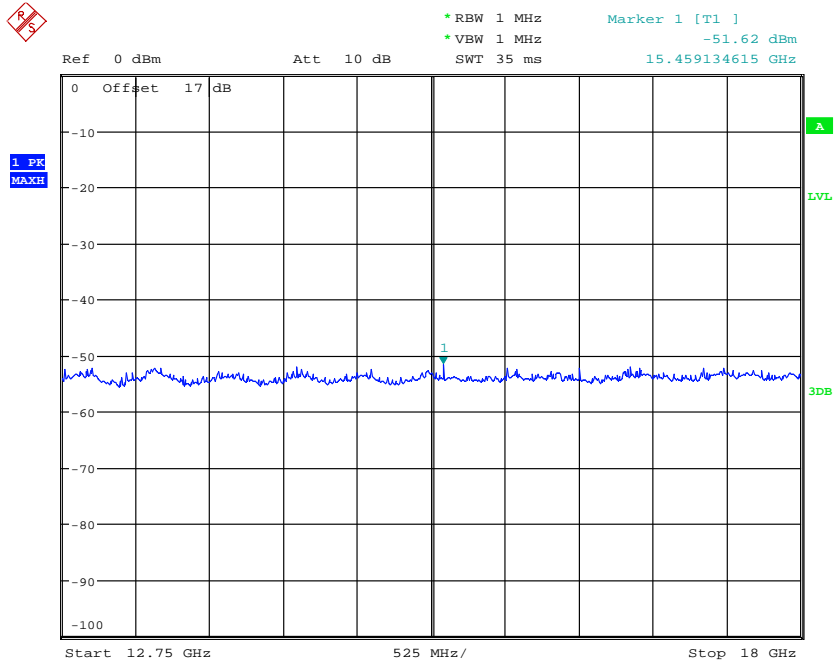


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FCC ID: 2AENAYPZN02



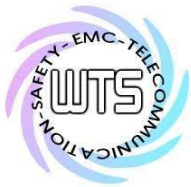
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Date: 7.DEC.2016 12:18:58

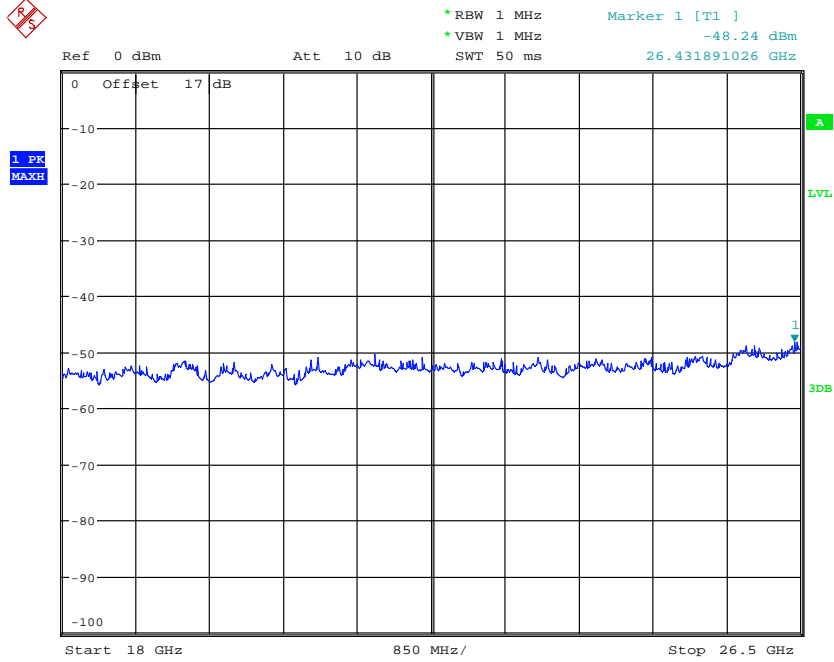


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Date: 7.DEC.2016 12:17:53

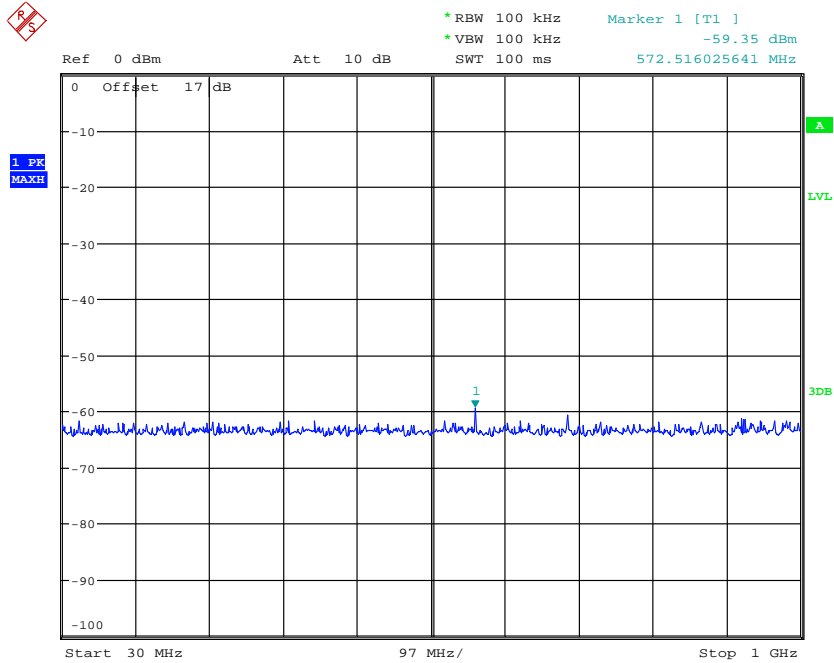


Report Number: W6M21611-16408-P-2224
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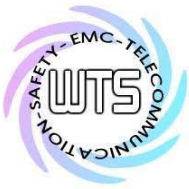


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Date: 7.DEC.2016 12:16:06

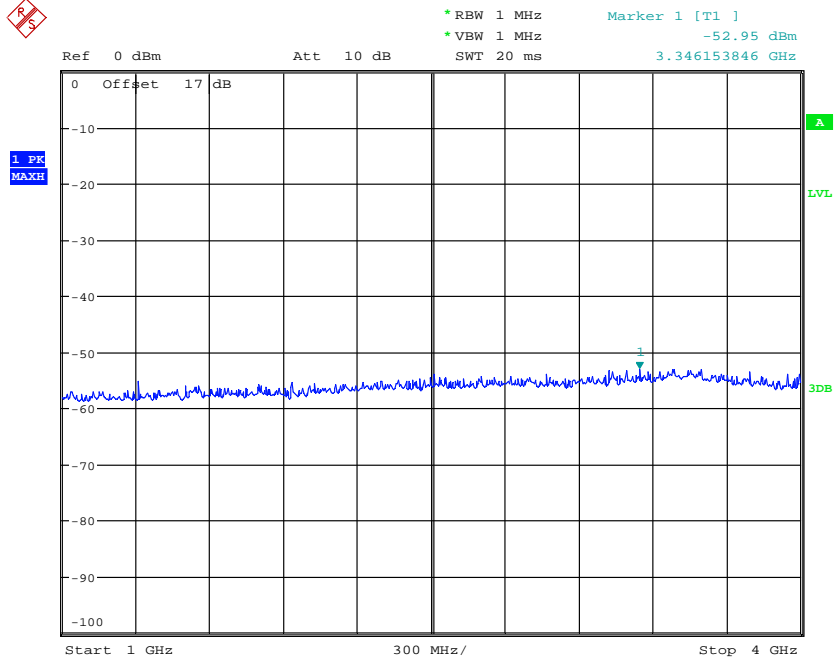
Band V
CH 4132



CONDUCTED SPURIOUS EMISSION BANDV CH4132
Date: 7.DEC.2016 11:24:15

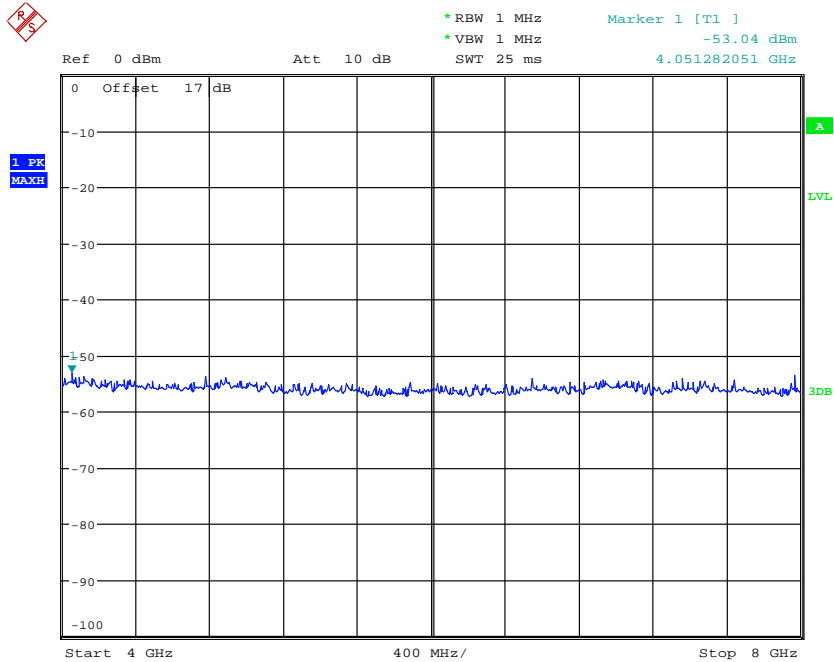


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



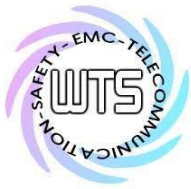
CONDUCTED SPURIOUS EMISSION BANDV CH4132

Date: 7.DEC.2016 12:28:31

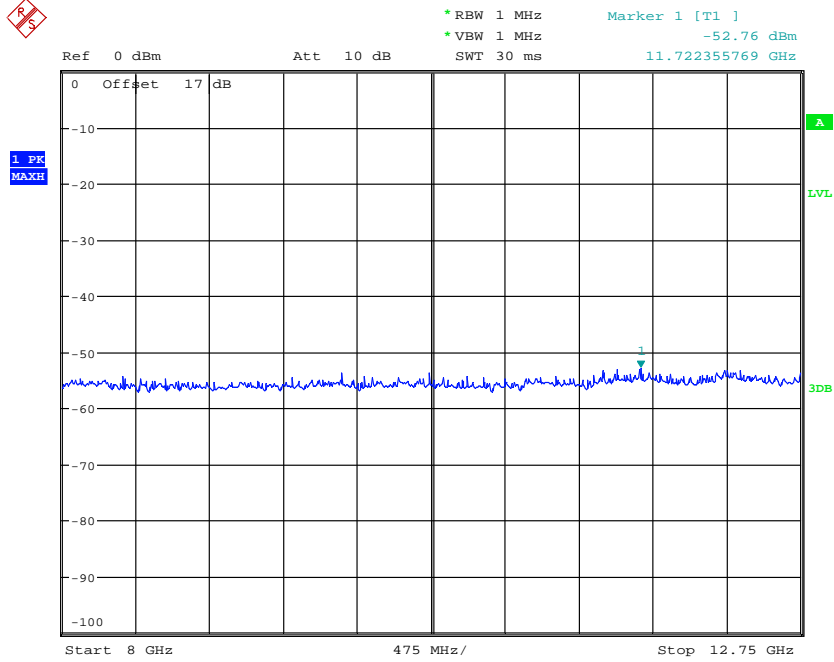


CONDUCTED SPURIOUS EMISSION BANDV CH4132

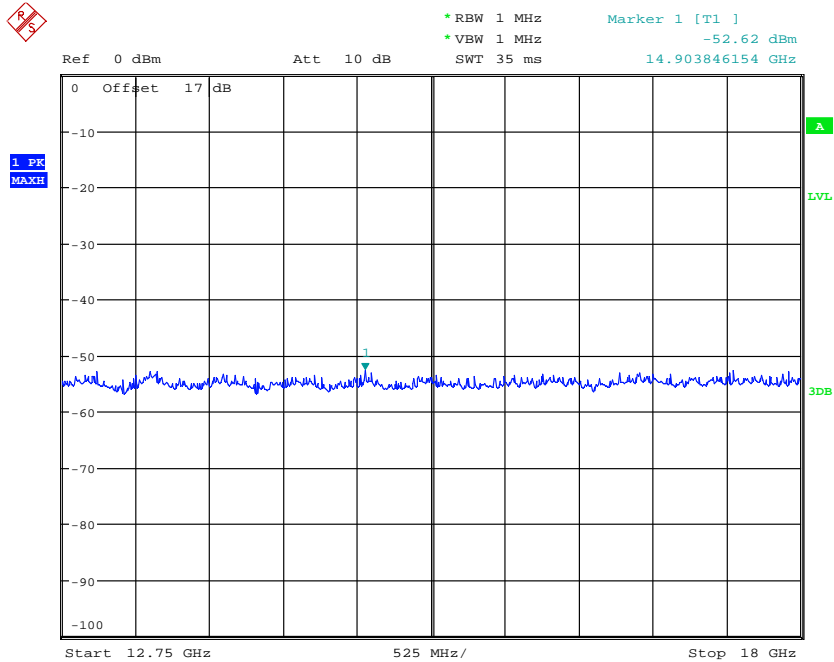
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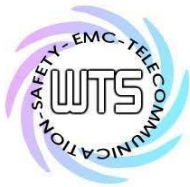
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



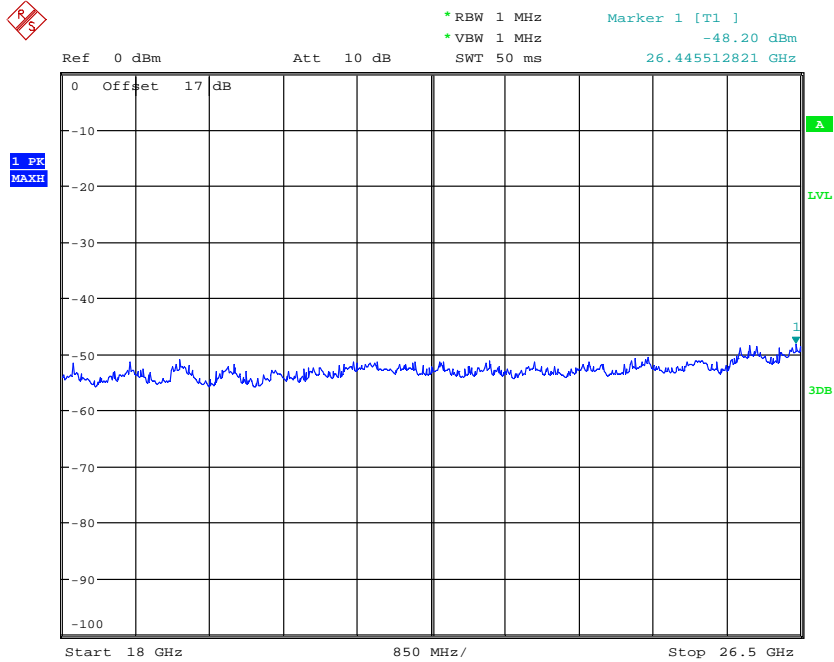
CONDUCTED SPURIOUS EMISSION BANDV CH4132
Date: 7.DEC.2016 12:29:31



CONDUCTED SPURIOUS EMISSION BANDV CH4132
Date: 7.DEC.2016 12:30:03



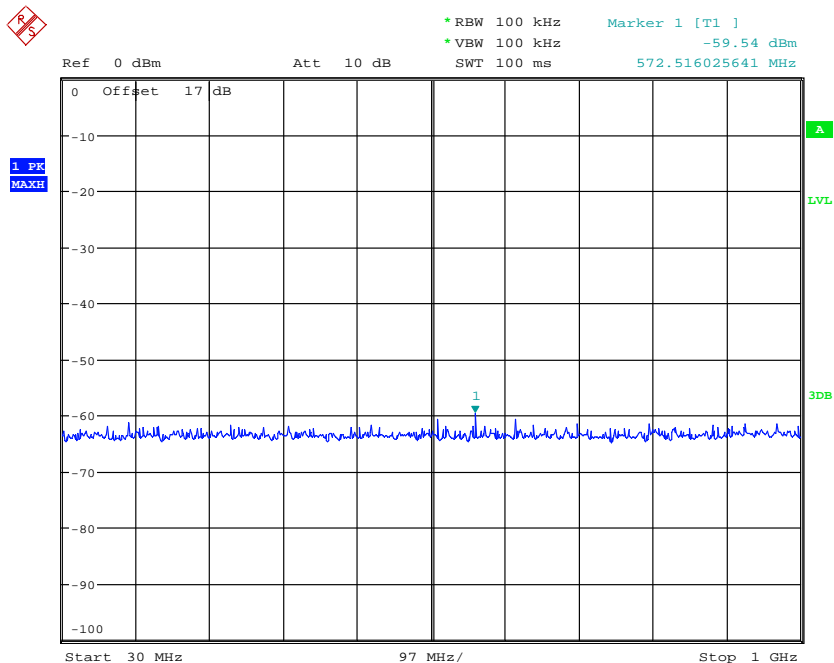
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV CH4132

Date: 7.DEC.2016 12:30:26

CH 4183

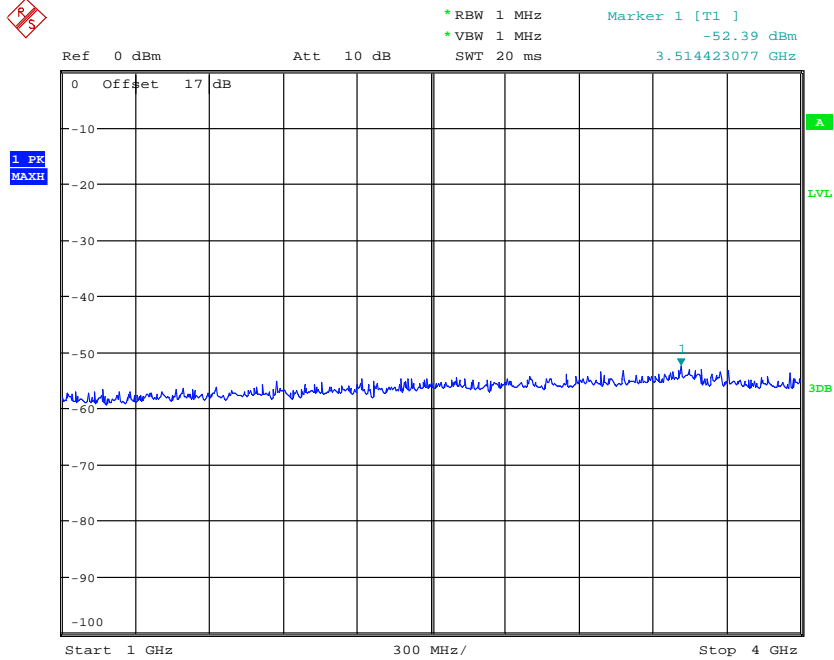


CONDUCTED SPURIOUS EMISSION BANDV CH4183

Date: 7.DEC.2016 11:24:42

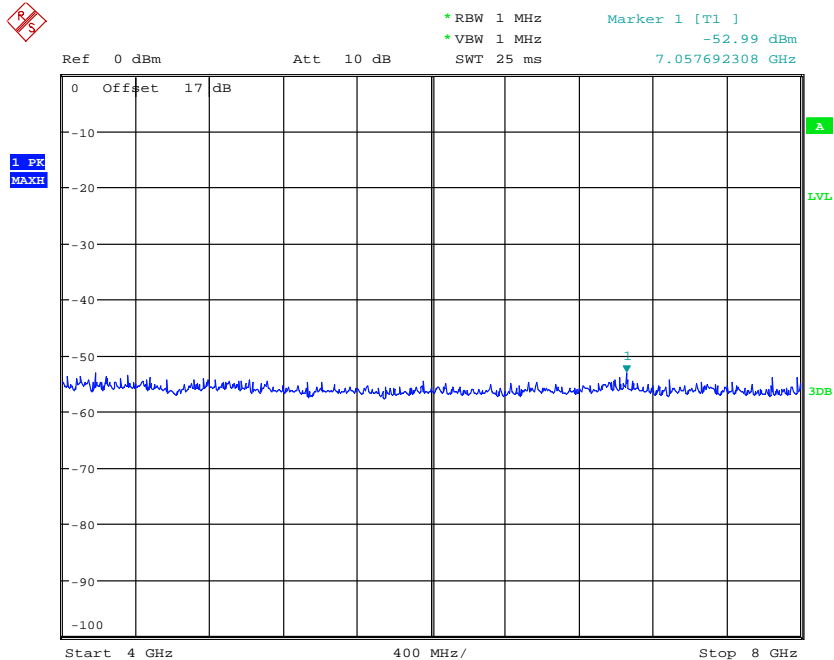


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



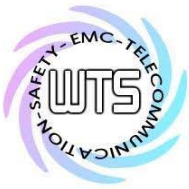
CONDUCTED SPURIOUS EMISSION BANDV CH4183

Date: 7.DEC.2016 12:32:44

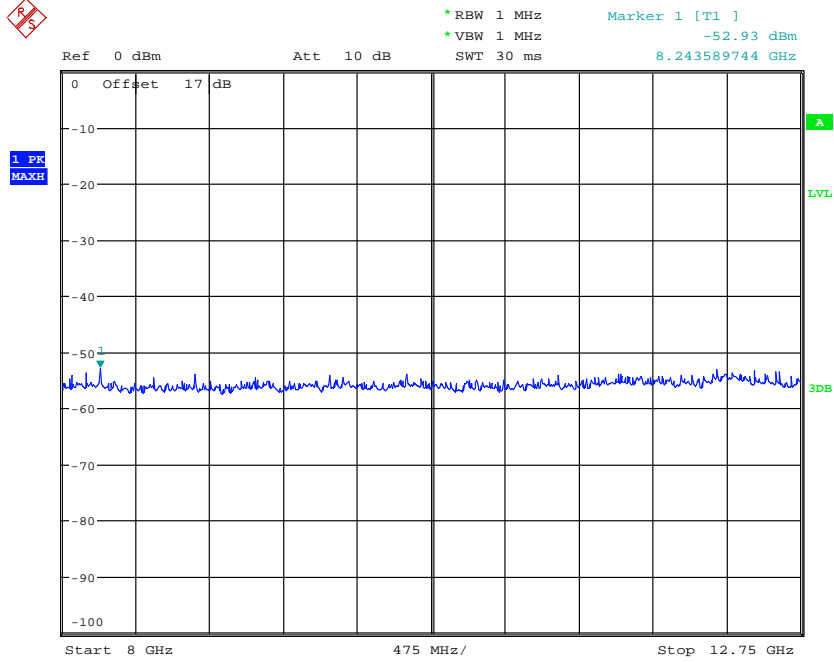


CONDUCTED SPURIOUS EMISSION BANDV CH4183

Date: 7.DEC.2016 12:32:20

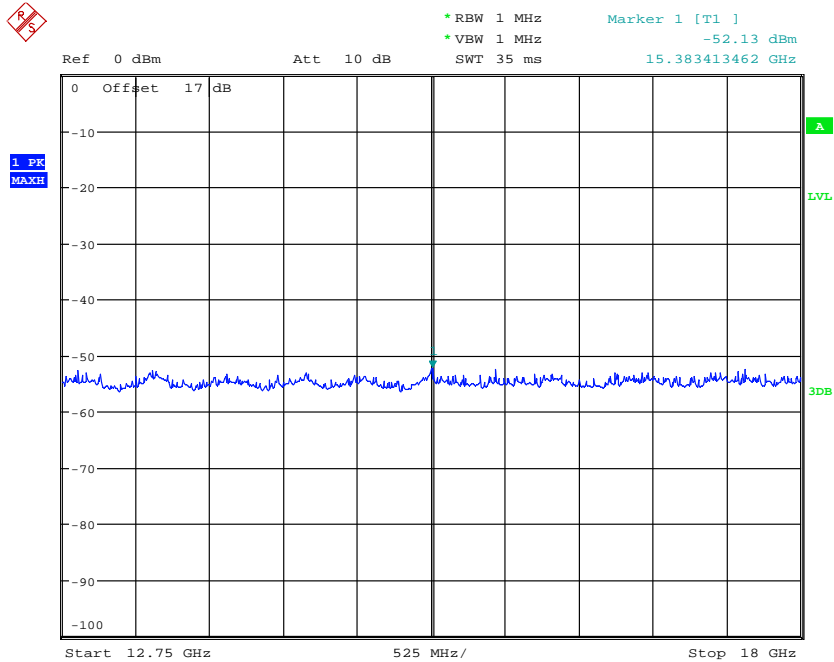


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



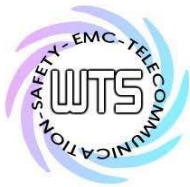
CONDUCTED SPURIOUS EMISSION BANDV CH4183

Date: 7.DEC.2016 12:31:38

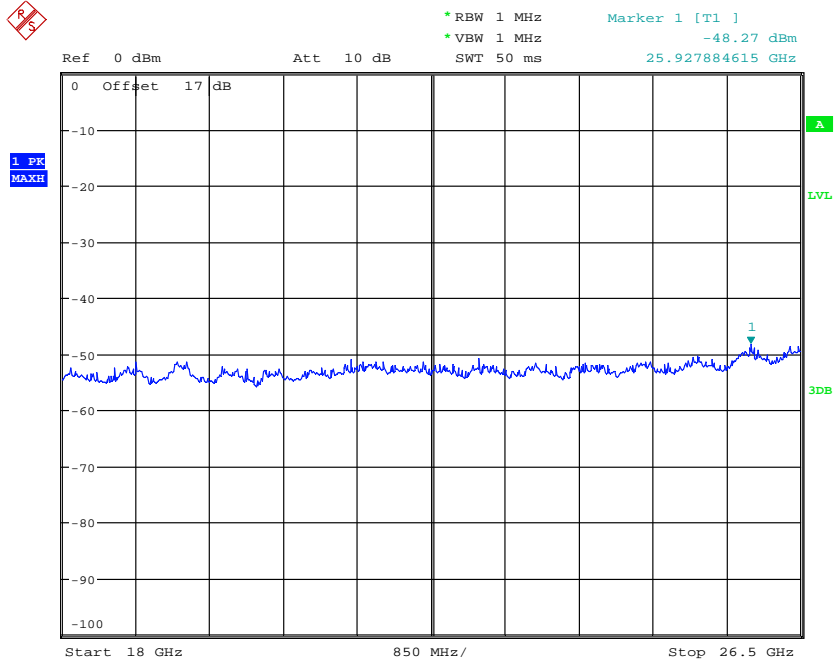


CONDUCTED SPURIOUS EMISSION BANDV CH4183

Date: 7.DEC.2016 12:31:19



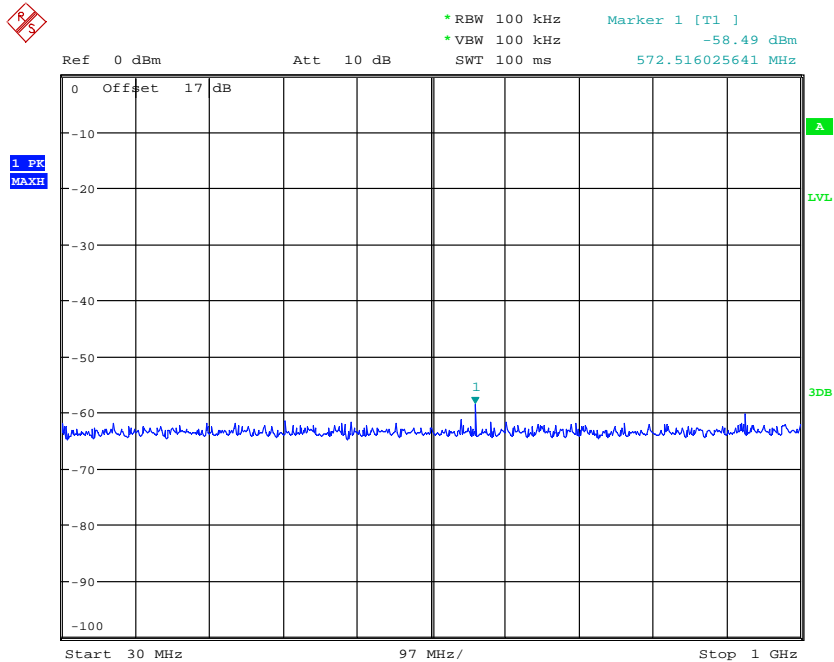
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV CH4183

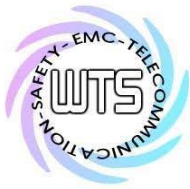
Date: 7.DEC.2016 12:30:54

CH 4233

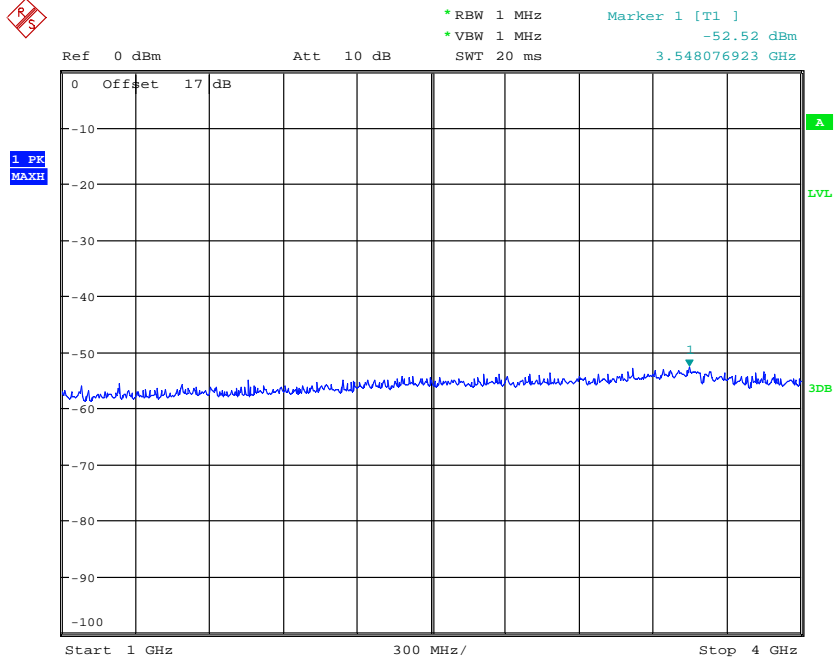


CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 11:25:07

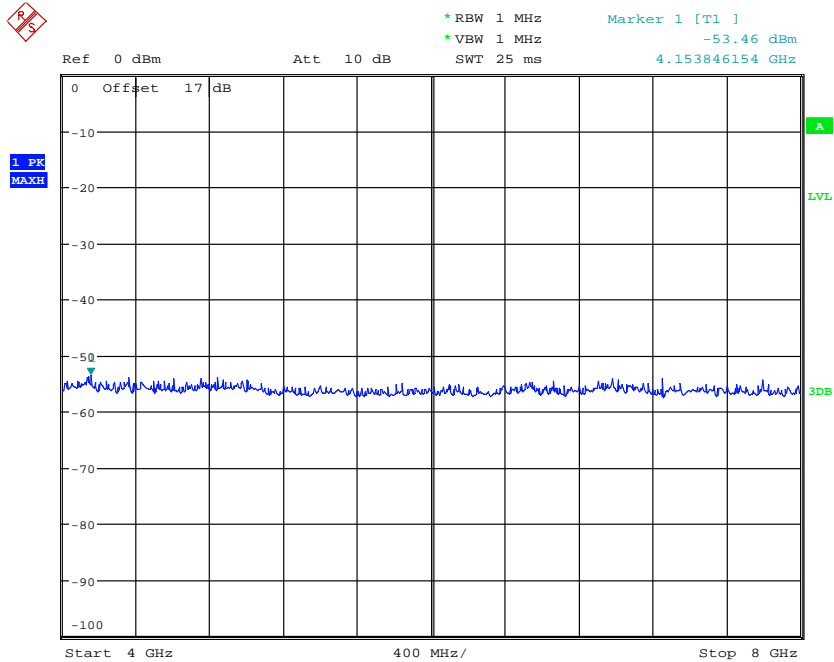


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 12:34:38

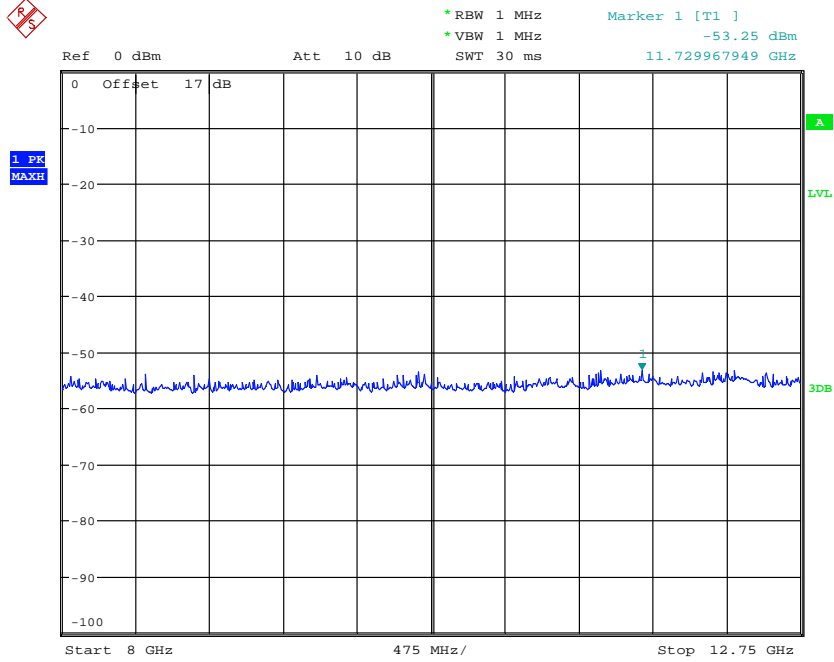


CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 12:34:55

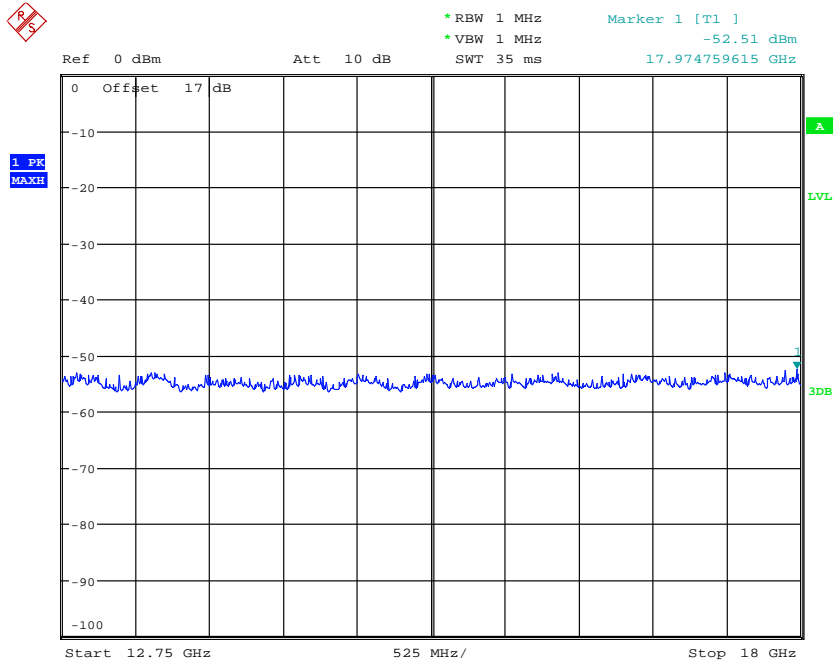


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 12:35:14

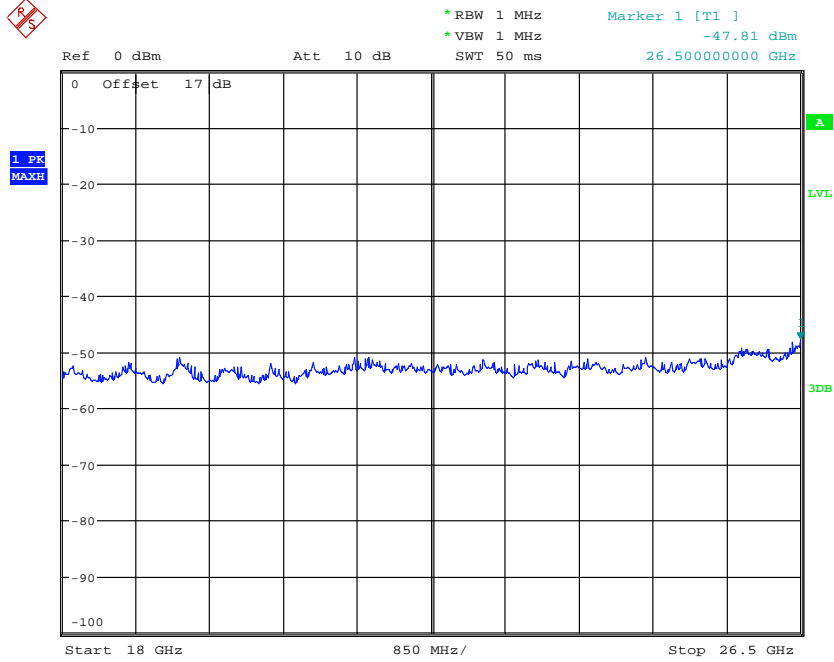


CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 12:35:34



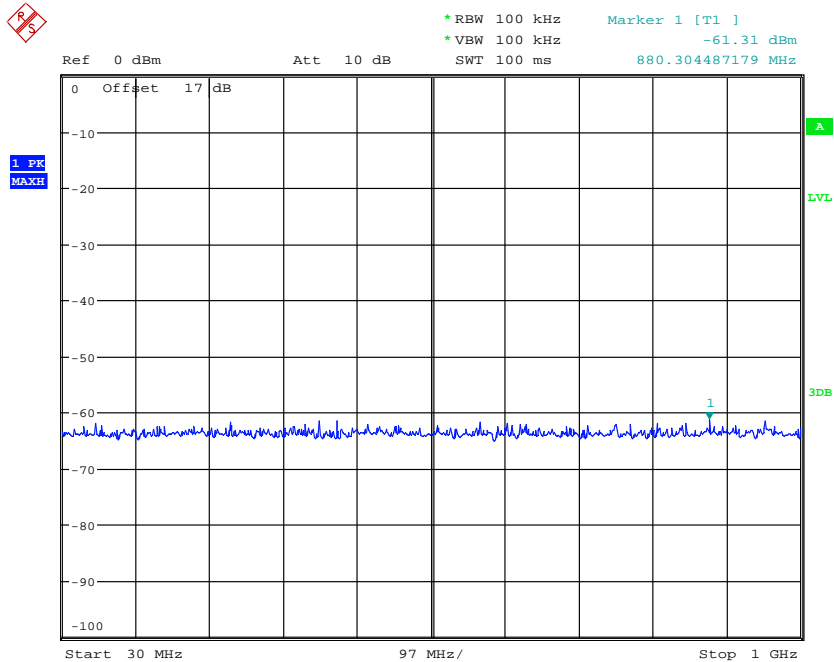
Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV CH4233

Date: 7.DEC.2016 12:35:53

Band V Idle

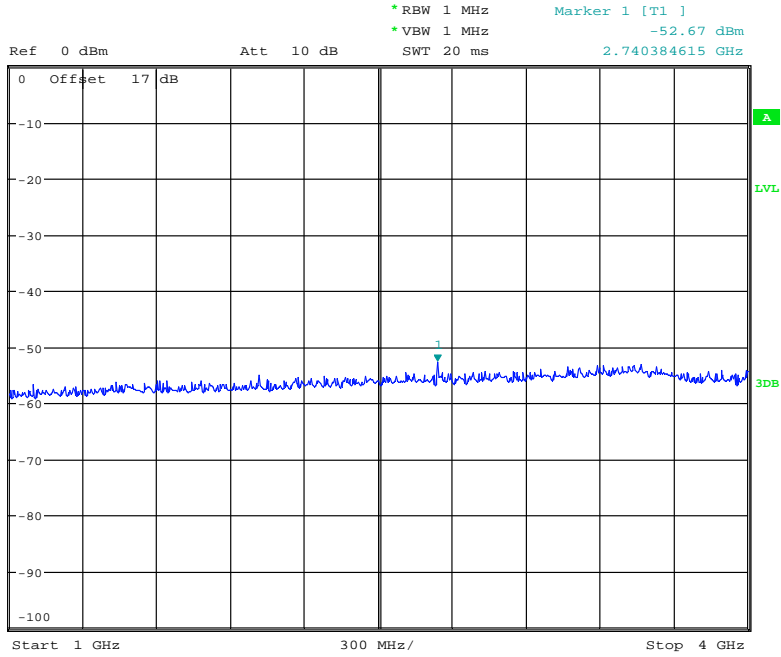


CONDUCTED SPURIOUS EMISSION BANDV IDLE

Date: 7.DEC.2016 12:10:36

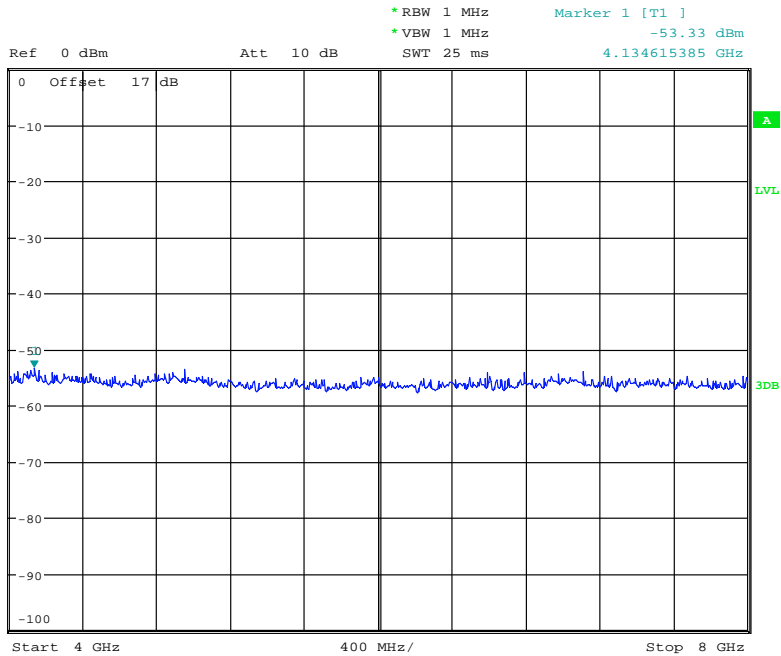


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



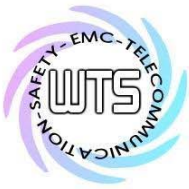
CONDUCTED SPURIOUS EMISSION BANDV IDLE

Date: 7.DEC.2016 12:21:29

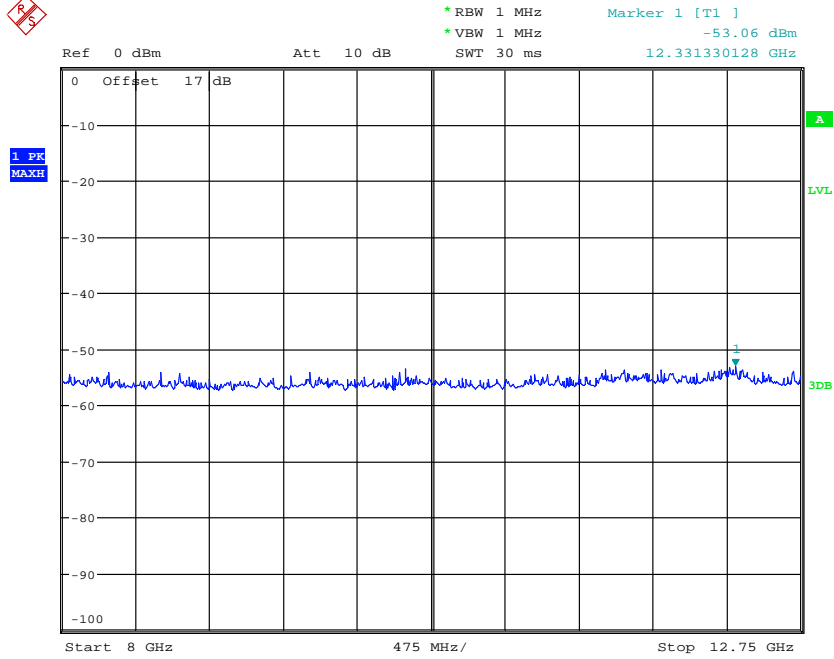


CONDUCTED SPURIOUS EMISSION BANDV IDLE

Date: 7.DEC.2016 12:20:20

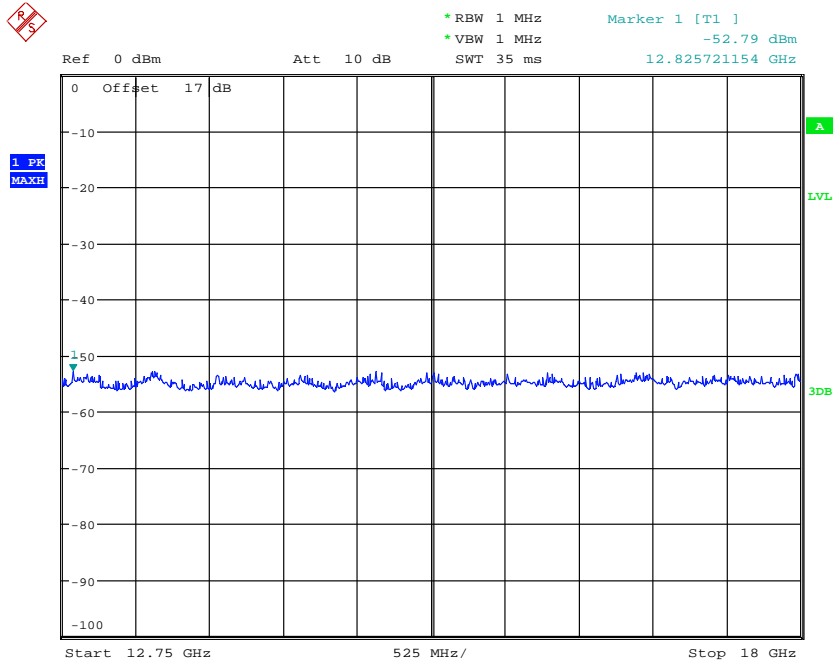


Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV IDLE

Date: 7.DEC.2016 12:20:00

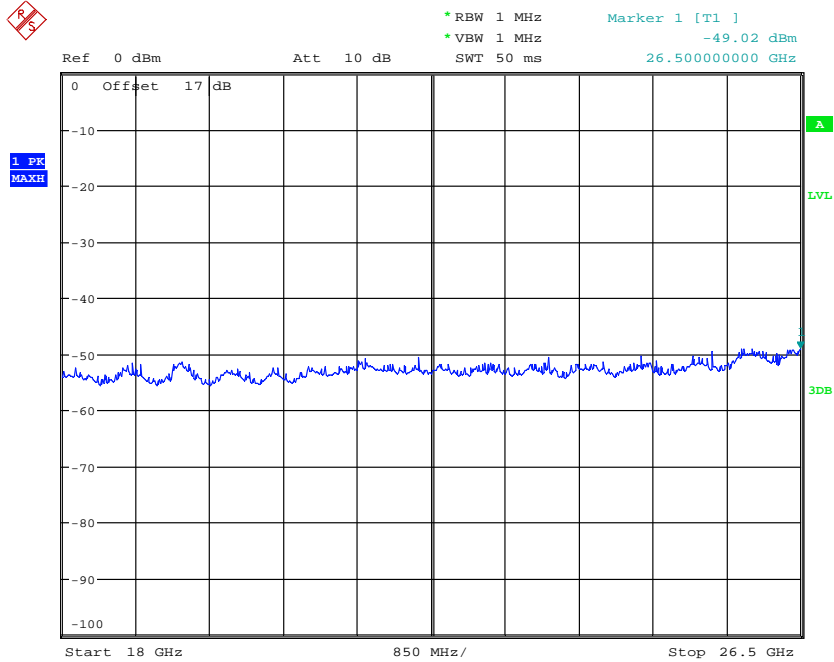


CONDUCTED SPURIOUS EMISSION BANDV IDLE

Date: 7.DEC.2016 12:18:12



Report Number: W6M21611-16408-P-2224
FCC ID: 2AENAYPZN02



CONDUCTED SPURIOUS EMISSION BANDV IDLE
Date: 7.DEC.2016 12:15:49

Test equipment: ETSTW-RE 055, ETSTW-GSM 002

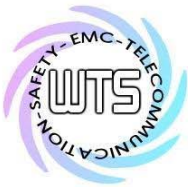
6.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

6.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$



Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

7. Field Strength of Spurious Radiation

7.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier. The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

7.2 Test Results

The measurements of the spurious emission are at the upper, center and lower channel.

Model: Yepzon Freedom Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

- Note**
- 1. Correction Factor = Antenna factor + Cable loss - Preamplifier**
 - 2. The formula of measured value as: Test Result = Reading + Correction Factor**
 - 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
 - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
 - 5. Measurement uncertainty 30-1000 MHz = ± 4.69 dB, 1-18 GHz = ± 4.78 dB, 18-40 GHz = ± 2.44 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
 - 6. See attached diagrams in appendix.**

7.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

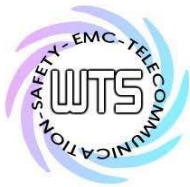
Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

7.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 24.238(a) requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13dBm$

Test equipment: ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-GSM 002

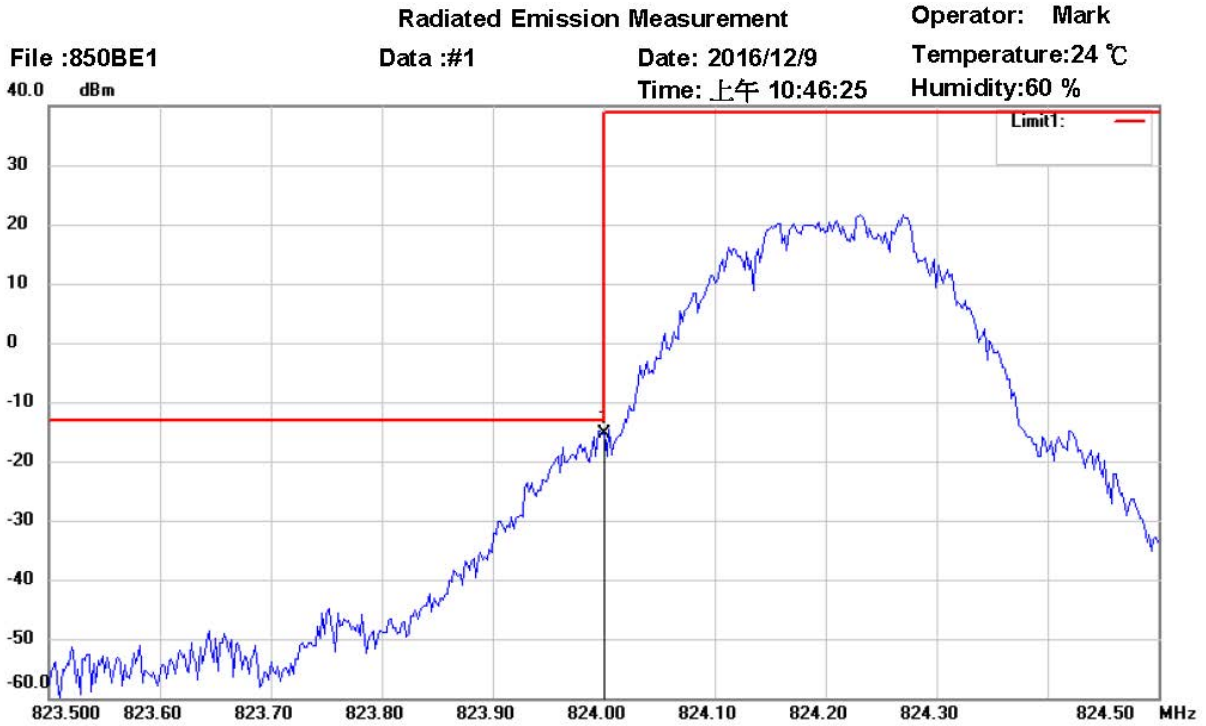


Report Number: W6M21611-16408-P-2224

FCC ID: 2AENAYPZN02

7.5 Test result of band edge emissions

Band 850 MHz



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM850 CH128

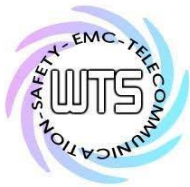
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	824.0000	-50.96	peak	35.63	-15.33	-13.00	150	240	-2.33	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

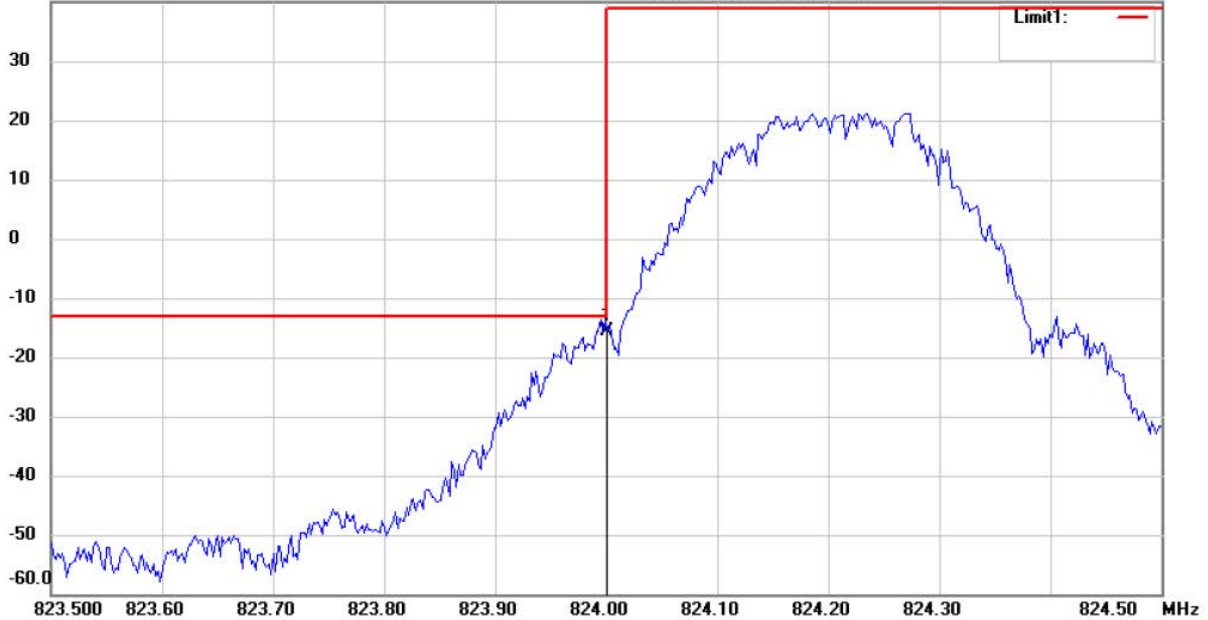
File : 850BE1

Data : #2

Date: 2016/12/9

Time: 上午 11:47:33

40.0 dBm



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM850 CH128

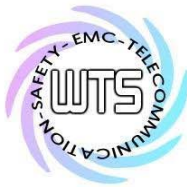
Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	824.0000	-51.19	peak	35.56	-15.63	-13.00	150	240	-2.63	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPN02

Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

File : 850BE2

Data : #1

Date: 2016/12/9

Time: 上午 10:42:52

40.0 dBm



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM850 CH251

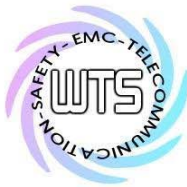
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	849.0000	-50.47	peak	36.49	-13.98	-13.00	150	210	-0.98	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPN02

Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

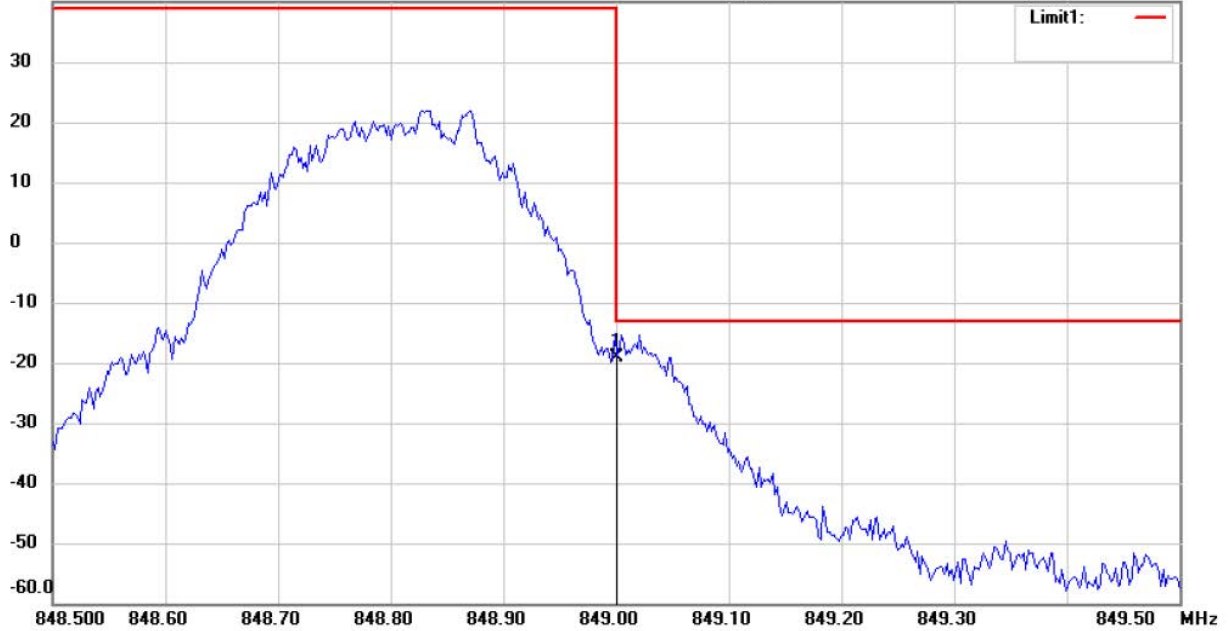
File :850BE2

Data :#2

Date: 2016/12/9

Time: 上午 11:49:33

40.0 dBm



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM850 CH251

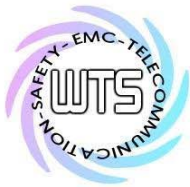
Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	849.0000	-55.41	peak	36.33	-19.08	-13.00	150	140	-6.08	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02
 Band 1900 MHz

Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

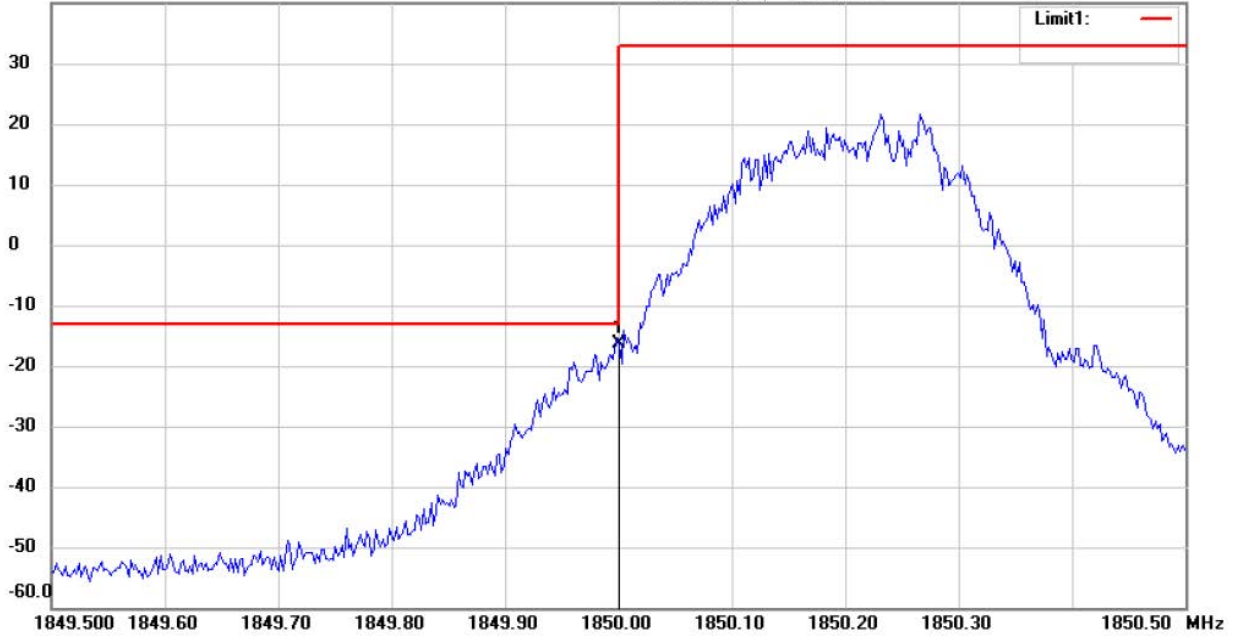
File :1900BE1

Data :#1

Date: 2016/12/7

Time: 下午 02:57:30

40.0 dBm



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM1900 CH512

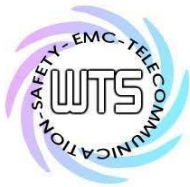
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-60.43	peak	44.16	-16.27	-13.00	150	150	-3.27	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

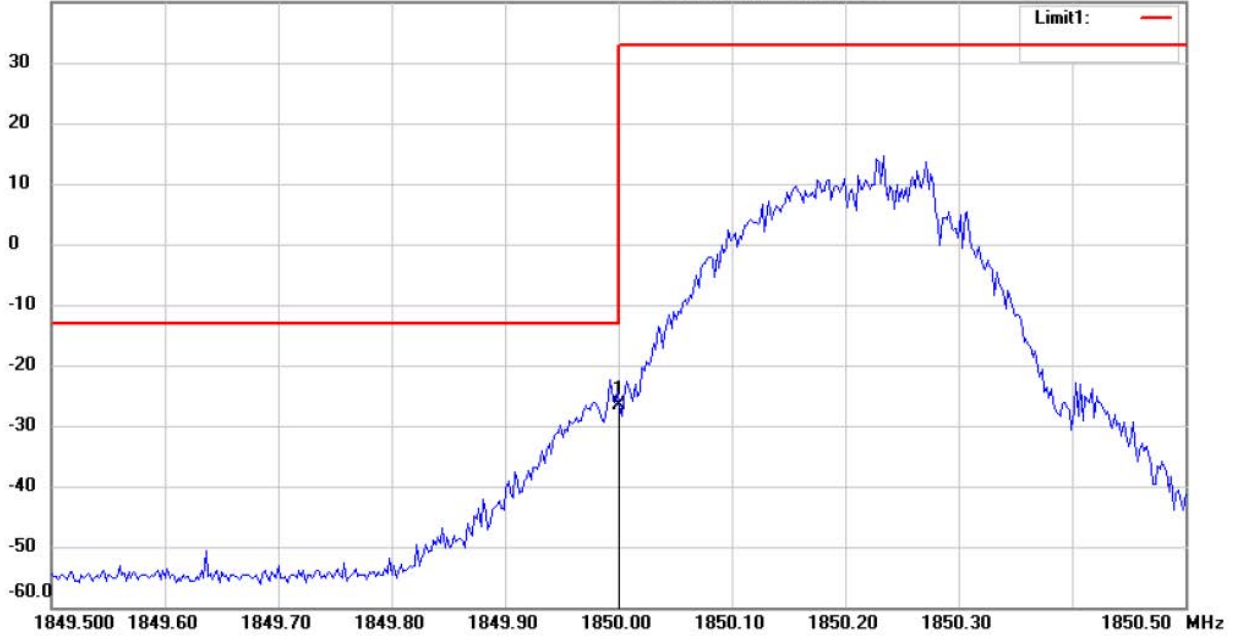
Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

File :1900BE1
 40.0 dBm

Data :#2

Date: 2016/12/8
 Time: 上午 09:57:24



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM1900 CH512

Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-72.09	peak	45.39	-26.70	-13.00	150	230	-13.70	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

Radiated Emission Measurement

Operator: Mark

File :1900BE2

Data :#1

Date: 2016/12/7

Temperature:24 °C

Time: 下午 03:01:16

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : GSM1900 CH810

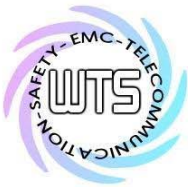
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-62.31	peak	44.40	-17.91	-13.00	150	200	-4.91	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

Radiated Emission Measurement

Operator: Mark

File :1900BE2

Data :#2

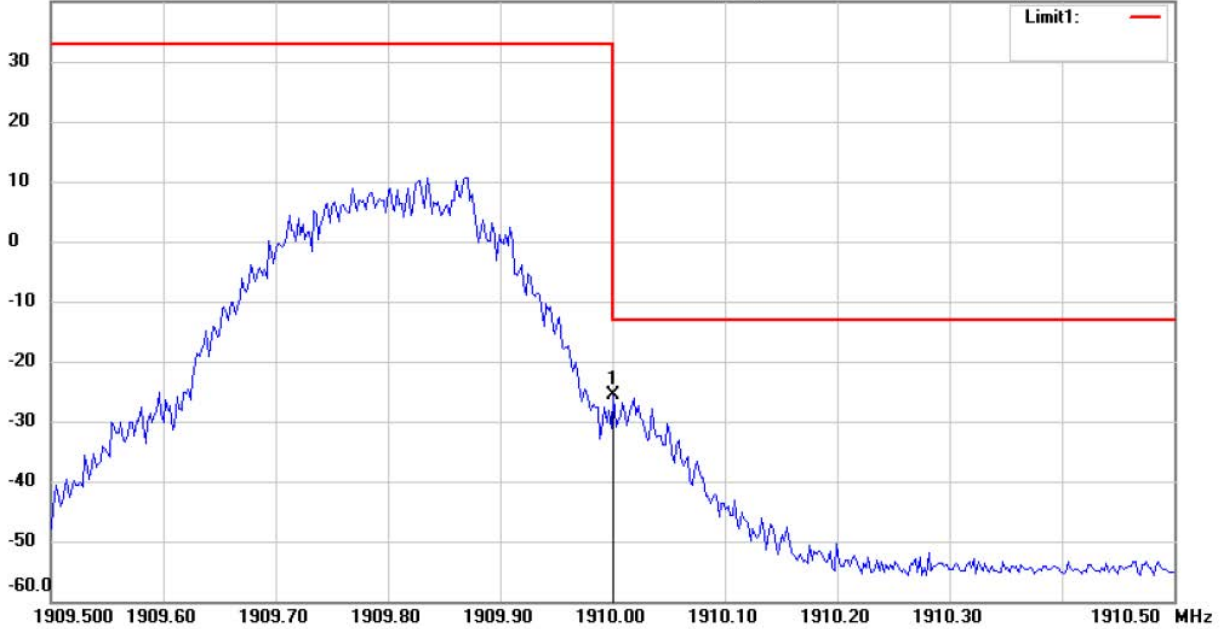
Date: 2016/12/8

Temperature:24 °C

40.0 dBm

Time: 上午 09:55:20

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

Polarization: *Vertical*

EUT : W6M21611-16408

Power : 3.7 Vd.c.

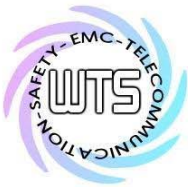
M/N:

Distance: 3m

Test Mode : GSM1900 CH810

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-71.42	peak	45.86	-25.56	-13.00	150	200	-12.56	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02
 Band II

Radiated Emission Measurement

Operator: Mark

File :B2BE1

Data :#1

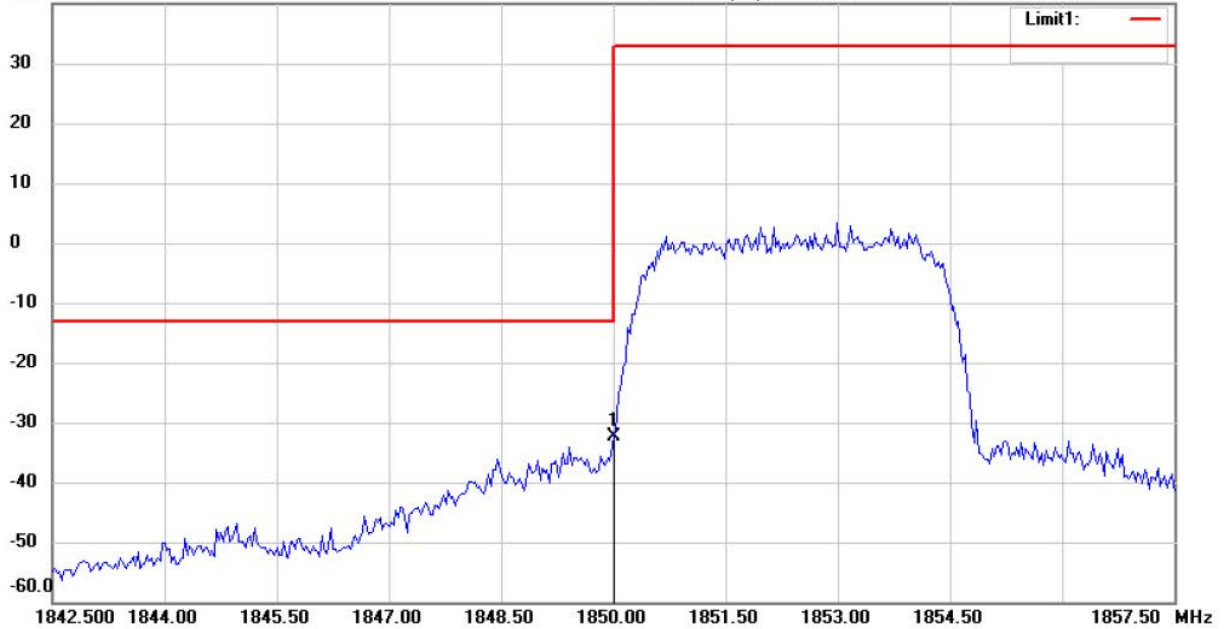
Date: 2016/12/7

Temperature:24 °C

40.0 dBm

Time: 下午 04:30:46

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

Polarization: *Horizontal*

EUT : W6M21611-16408

Power : 3.7 Vd.c.

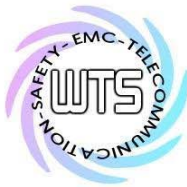
M/N:

Distance: 3m

Test Mode : WCDMA Band2 CH9262

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-76.58	peak	44.16	-32.42	-13.00	150	200	-19.42	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

Radiated Emission Measurement

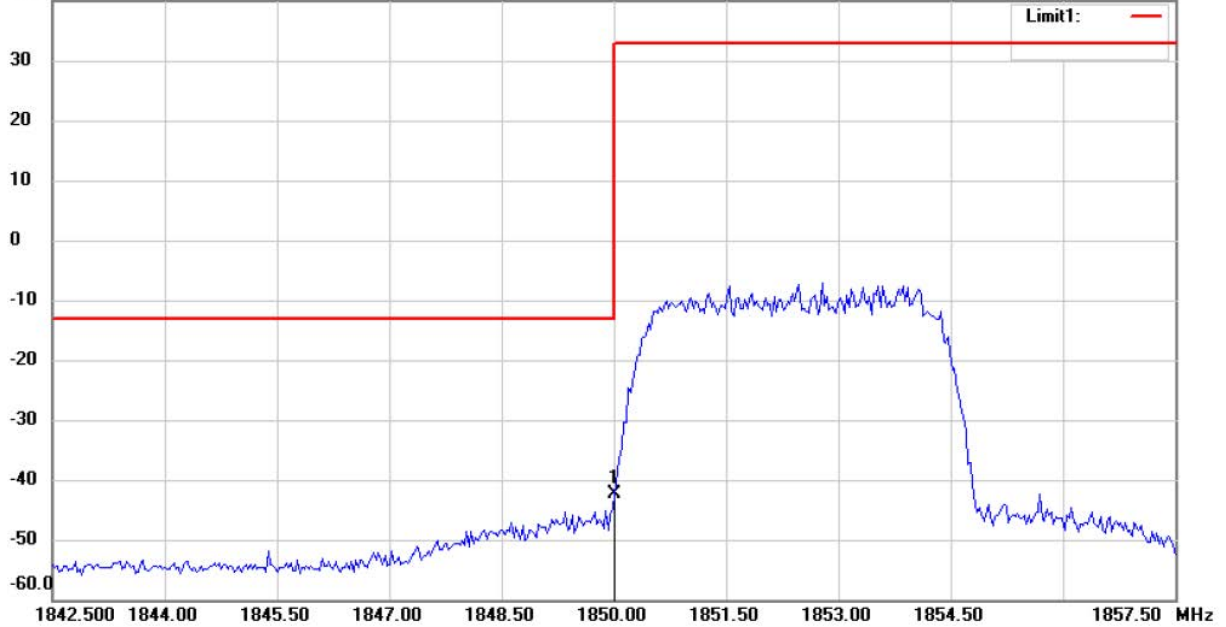
Operator: Mark

File :B2BE1
 40.0 dBm

Data :#2

Date: 2016/12/8
 Time: 上午 09:36:47

Temperature:24 °C
 Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : WCDMA Band2 CH9262

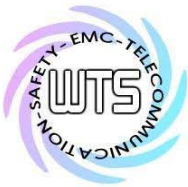
Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-87.75	peak	45.39	-42.36	-13.00	150	150	-29.36	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

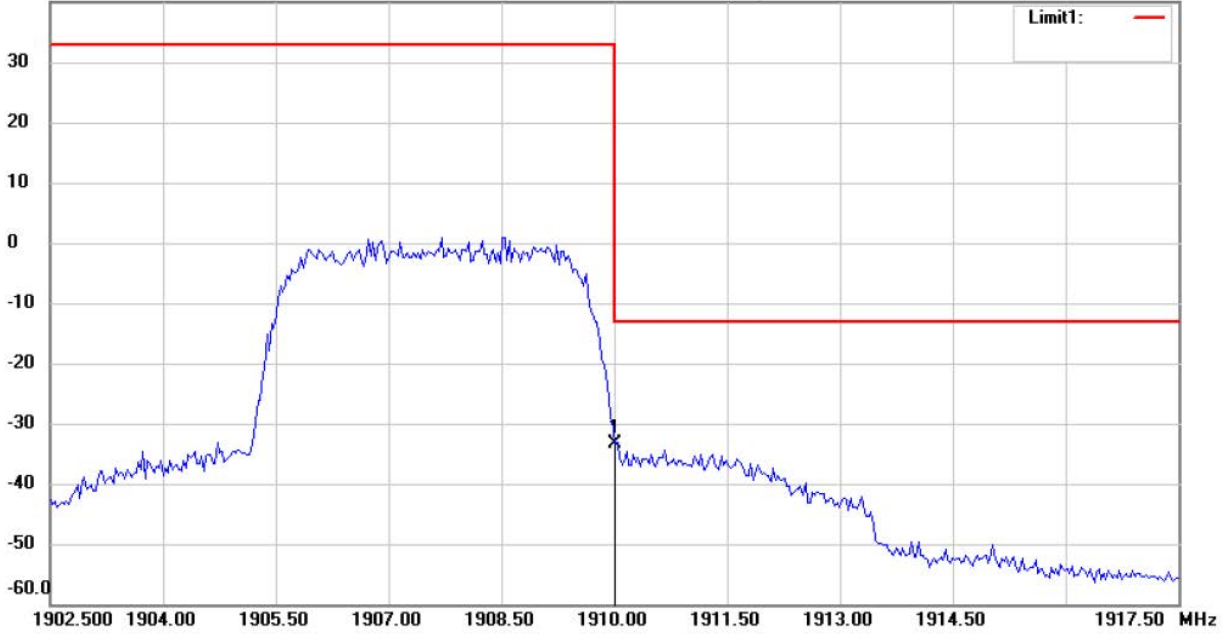
Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

File :B2BE2
 40.0 dBm

Data :#1

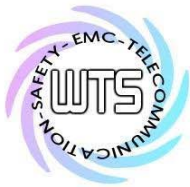
Date: 2016/12/7
 Time: 下午 04:29:02



Site : Chamber
 Condition : FCC_part 24 Bandedge
 EUT : W6M21611-16408
 M/N:
 Test Mode : WCDMA Band2 CH9538
 Note :

Polarization: *Horizontal*
 Power : 3.7 Vd.c.
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-77.81	peak	44.40	-33.41	-13.00	150	240	-20.41	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02

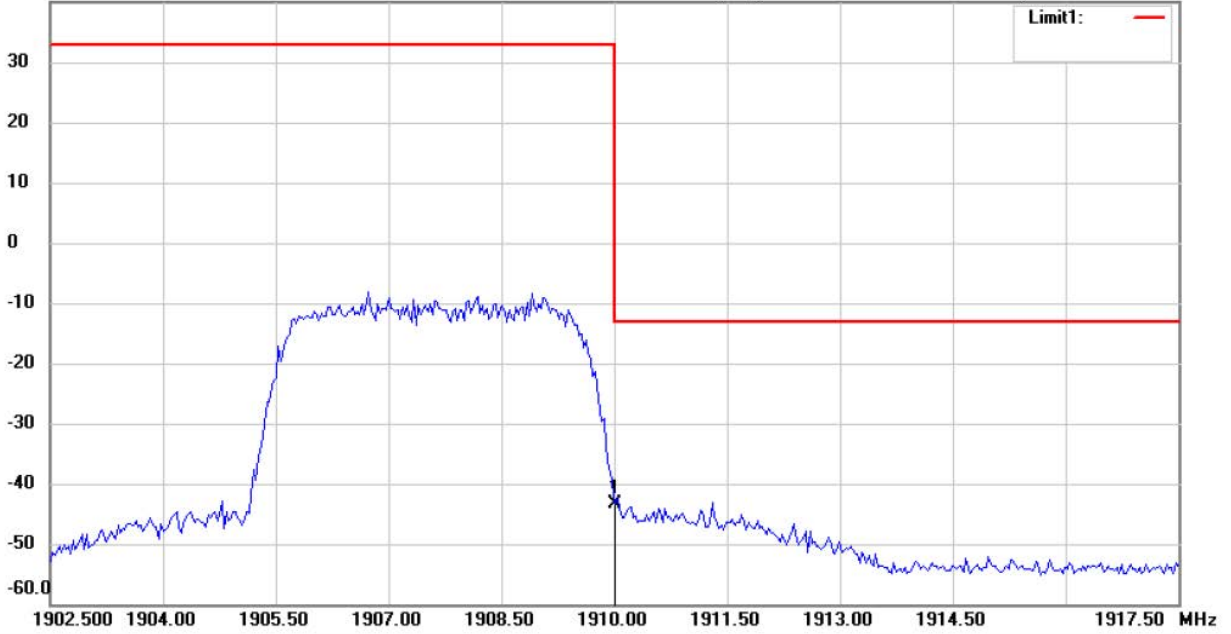
Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

File :B2BE2
 40.0 dBm

Data :#2

Date: 2016/12/8
 Time: 上午 09:46:36



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : WCDMA Band2 CH9538

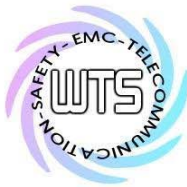
Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-89.14	peak	45.86	-43.28	-13.00	150	100	-30.28	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21611-16408-P-2224
 FCC ID: 2AENAYPZN02
 Band V

Radiated Emission Measurement

Operator: Mark
 Temperature: 24 °C
 Humidity: 60 %

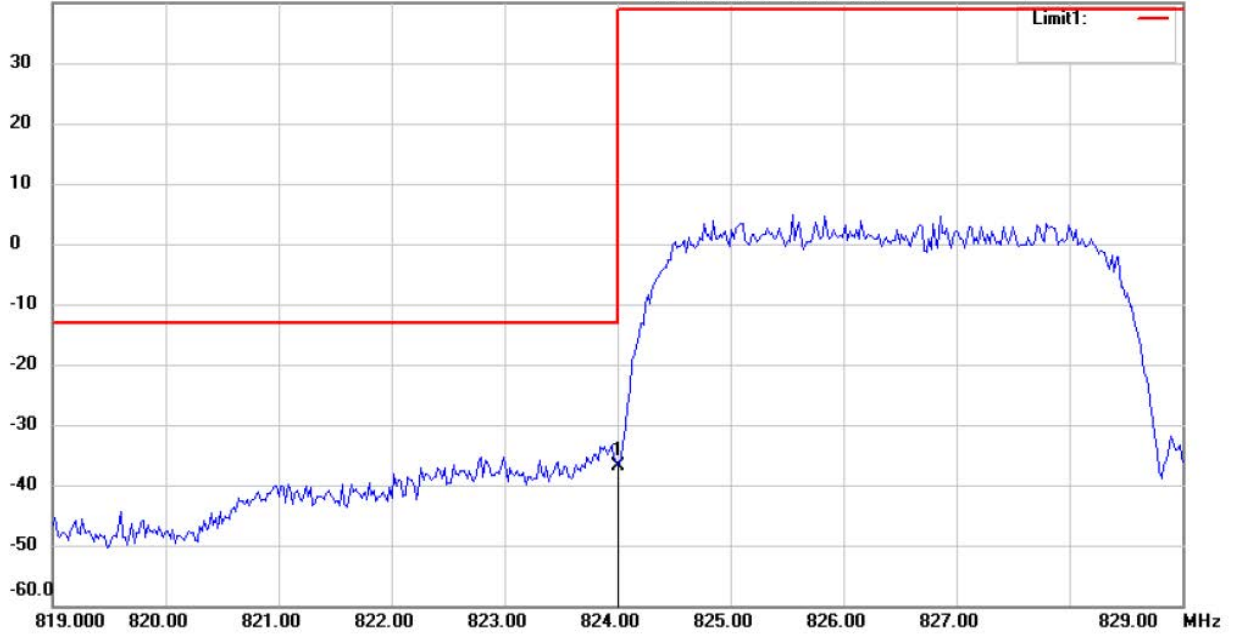
File : B5BE1

Data : #1

Date: 2016/12/9

Time: 上午 11:02:07

40.0 dBm



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21611-16408

M/N:

Test Mode : WCDMA BandV CH4132

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	824.0000	-72.47	peak	35.63	-36.84	-13.00	150	240	-23.84	