



FCC RF Test Report

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : Portable Tablet Computer
BRAND NAME : Lenovo
MODEL NAME : Lenovo PB-6505M, Lenovo PB-6505MC
FCC ID : O57PB6505M
STANDARD : 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 27, 2018 and completely tested on Jan. 07, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG8O2704A	Rev. 01	Initial issue of report	Jan. 21, 2019

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 29.36 dB at 5640.000 MHz

1 General Description

1.1 Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

NO.68 BUILDING, 199 FENJU RD, Pilot Free Trade Zone, 200131, China

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo PB-6505M, Lenovo PB-6505MC
FCC ID	O57PB6505M
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/ HSPA+ (16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 868922040019370/868922040019388 Radiation: 868922040015238/868922040015246
HW Version	Lenovo Tablet PB-6505M Lenovo Tablet PB-6505MC
SW Version	PB-6505M_RF01_190214 PB-6505MC_RF01_190214
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two models Lenovo PB-6505M & Lenovo PB-6505MC: Lenovo PB-6505M is ROW SKU, Lenovo PB-6505MC is India SKU.
3. There are six samples, the detailed differences of six samples are shown in the product equality declaration which is exhibit separately. According to the differences, sample 1 is assessed to perform full test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.60 dBm 1900: 30.20 dBm WCDMA: Band V: 23.64 dBm Band II: 23.69 dBm
Antenna Type	PIFA Antenna
Antenna Gain	Cellular Band: -3.70 dBi PCS Band: -2.80 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ (16QAM uplink is not supported) DC-HSDPA : 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	0.4732	0.0574 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.1059	0.0538 ppm	246KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0601	0.0442 ppm	4M11F9W
Part 24E	GSM1900 GSM	GMSK	0.5495	0.0218 ppm	242KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.1995	0.0255 ppm	246KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.1227	0.0239 ppm	4M11F9W

1.7 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	Brand Name	Lenovo (Salom)	Model Name	SC-41
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
AC Adapter 1 (UK)	Brand Name	Lenovo (Salom)	Model Name	SC-43
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
AC Adapter 1 (AR)	Brand Name	Lenovo (Salom)	Model Name	SC-46
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
AC Adapter 2 (US)	Brand Name	Lenovo (Acbel)	Model Name	SC-41
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
AC Adapter 2 (UK)	Brand Name	Lenovo (Acbel)	Model Name	SC-43
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
AC Adapter 2 (AR)	Brand Name	Lenovo (Acbel)	Model Name	SC-46
	Power Rating	I/P: 100 - 240 Vac, 300mA, O/P: 5Vdc, 2000mA		
Battery 1	Brand Name	Lenovo (NVT)	Model Name	L18D1P33
	Power Rating	3.85Vdc, 5180mAh	Type	Li-ion
Battery 2	Brand Name	Lenovo (Sunwoda)	Model Name	L18D1P33
	Power Rating	3.85Vdc, 5180mAh	Type	Li-ion
USB Cable 1	Brand Name	Lenovo (Leagtech)	Model Name	711300000371
	Signal Line	1.0 meter, shielded cable, without ferrite core		
USB Cable 2	Brand Name	Lenovo (Chinapysind)	Model Name	711300000441
	Signal Line	1.0 meter, shielded cable, without ferrite core		



1.8 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH06-KS	CN5013	630927

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

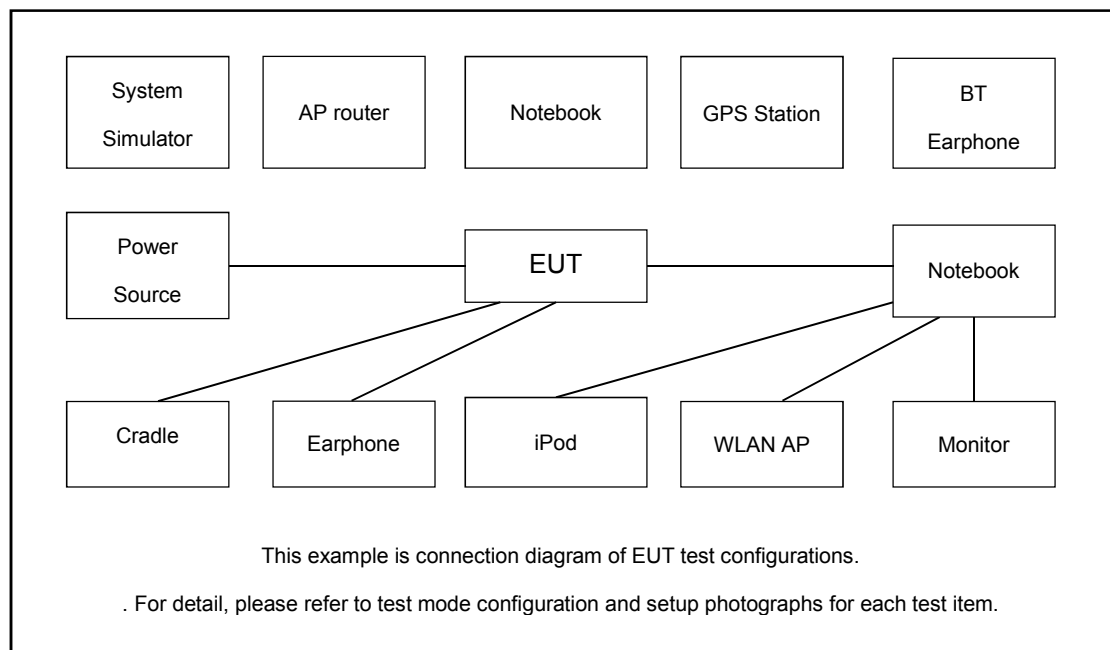
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
GSM 1900	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.7 dB and a 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.7 + 10 = 14.7 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6

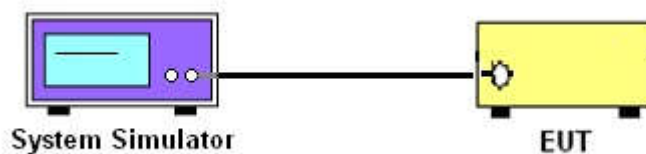
3 Conducted Test Result

3.1 Measuring Instruments

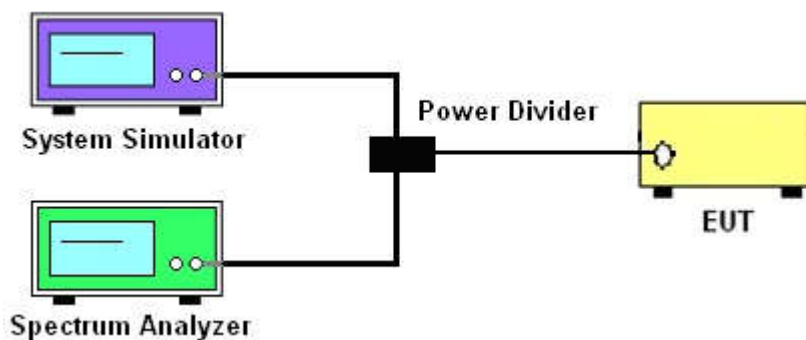
See list of measuring instruments of this test report.

3.2 Test Setup

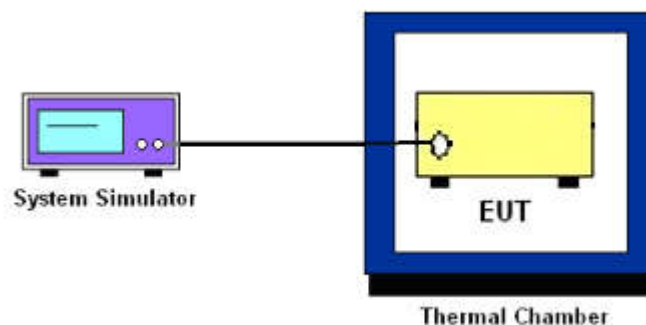
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

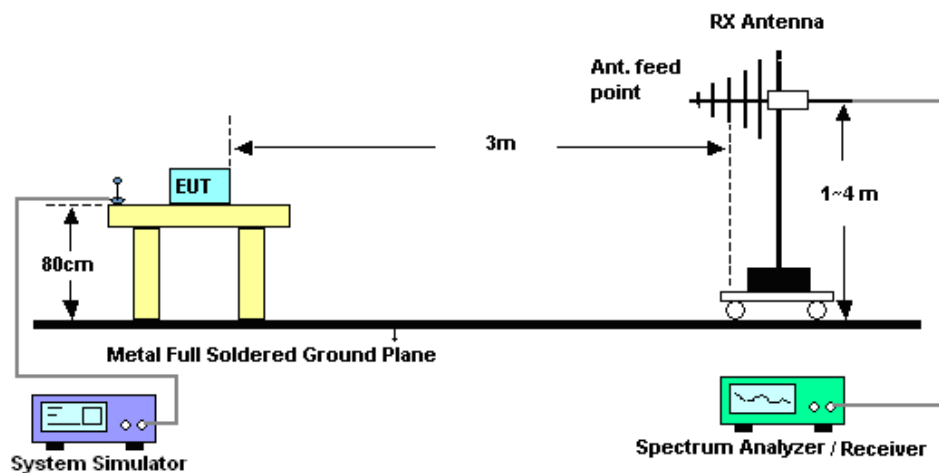
4 Radiated Test Items

4.1 Measuring Instruments

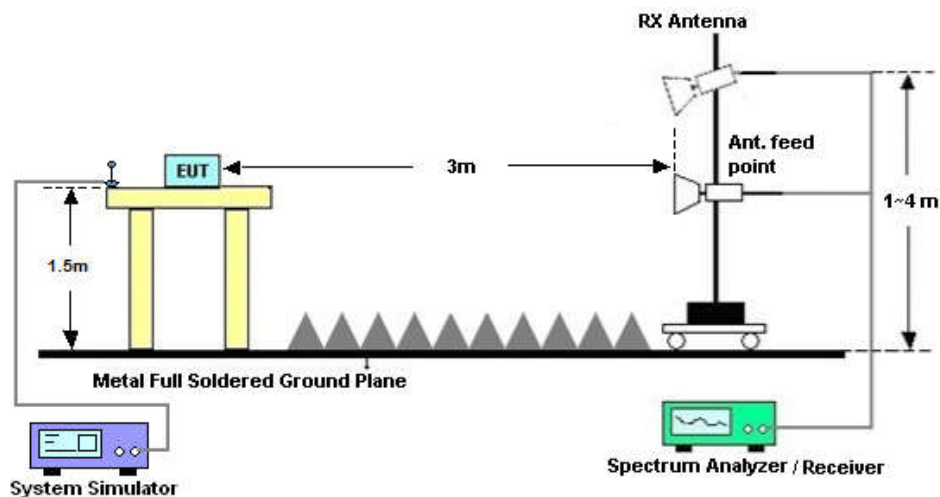
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Jan. 07, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 19, 2018	Jan. 07, 2019	Nov. 18, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz-44GHz	Jun. 25, 2018	Jan. 04, 2019	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Jan. 04, 2019	Jan. 28, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Jan. 04, 2019	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Jan. 04, 2019	Feb. 06, 2019	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Jan. 04, 2019	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Feb. 08, 2018	Jan. 04, 2019	Feb. 07, 2019	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	2025788	1Ghz-18Ghz	Apr. 17, 2018	Jan. 04, 2019	Apr. 16, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 18, 2018	Jan. 04, 2019	Apr. 17, 2019	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 04, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 04, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.60	32.58	32.59	30.20	30.17	30.06
GPRS class 8	32.57	32.56	32.58	30.19	30.16	30.05
GPRS class 10	32.12	32.04	32.10	29.49	29.44	29.44
GPRS class 11	30.30	30.45	30.51	28.05	28.05	28.15
GPRS class 12	29.14	29.13	29.08	26.85	26.80	26.87
EGPRS class 8	26.08	26.05	26.10	25.75	25.68	25.80
EGPRS class 10	24.99	25.02	25.02	24.61	24.55	24.62
EGPRS class 11	22.79	22.85	22.85	22.40	22.35	22.42
EGPRS class 12	22.30	22.40	22.32	21.92	21.86	22.01



Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
AMR 12.2K	23.59	23.62	23.60	23.66	23.67	23.63
RMC 12.2K	23.61	23.64	23.62	23.67	23.69	23.64
HSDPA Subtest-1	22.44	22.36	22.33	22.47	22.47	22.36
HSDPA Subtest-2	22.46	22.47	22.39	22.59	22.53	22.48
HSDPA Subtest-3	21.99	22.01	21.92	22.10	22.17	22.02
HSDPA Subtest-4	21.99	22.01	21.92	22.09	22.17	22.02
DC-HSDPA Subtest-1						
DC-HSDPA Subtest-2						
DC-HSDPA Subtest-3						
DC-HSDPA Subtest-4						
HSUPA Subtest-1	22.54	22.43	22.42	22.42	22.45	22.43
HSUPA Subtest-2	20.53	20.51	20.39	20.57	20.55	20.51
HSUPA Subtest-3	21.39	21.49	21.38	21.61	21.52	21.51
HSUPA Subtest-4	20.57	20.52	20.50	20.70	20.63	20.59
HSUPA Subtest-5	22.50	22.40	22.40	22.50	22.50	22.40

**ERP/EIRP**

GSM850 ($G_T - L_C = -3.70$ dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	32.60	32.58	32.59
Conducted Power (Watts)	1.8197	1.8113	1.8155
ERP(dBm)	26.75	26.73	26.74
ERP(Watts)	0.4732	0.4710	0.4721

EDGE850 ($G_T - L_C = -3.70$ dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	26.08	26.05	26.10
Conducted Power (Watts)	0.4055	0.4027	0.4074
ERP(dBm)	20.23	20.20	20.25
ERP(Watts)	0.1054	0.1047	0.1059



GSM1900 ($G_T - L_C = -2.80$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	30.20	30.17	30.06
Conducted Power (Watts)	1.0471	1.0399	1.0139
EIRP(dBm)	27.40	27.37	27.26
EIRP(Watts)	0.5495	0.5458	0.5321

EDGE1900 ($G_T - L_C = -2.80$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	25.75	25.68	25.80
Conducted Power (Watts)	0.3758	0.3698	0.3802
EIRP(dBm)	22.95	22.88	23.00
EIRP(Watts)	0.1972	0.1941	0.1995



WCDMA Band V ($G_T - L_C = -3.70\text{dB}$)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency	826.4	836.4	846.6
(MHz)			
Conducted Power (dBm)	23.61	23.64	23.62
Conducted Power (Watts)	0.2296	0.2312	0.2301
ERP(dBm)	17.76	17.79	17.77
ERP(Watts)	0.0597	0.0601	0.0598

WCDMA Band II ($G_T - L_C = -2.80\text{ dB}$)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency	1852.4	1880	1907.6
(MHz)			
Conducted Power (dBm)	23.67	23.69	23.64
Conducted Power (Watts)	0.2328	0.2339	0.2312
EIRP(dBm)	20.87	20.89	20.84
EIRP(Watts)	0.1222	0.1227	0.1213

**Peak-to-Average Ratio**

Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.23	3.42	PASS
Middle CH	0.2	3.45	
Highest CH	0.23	3.45	

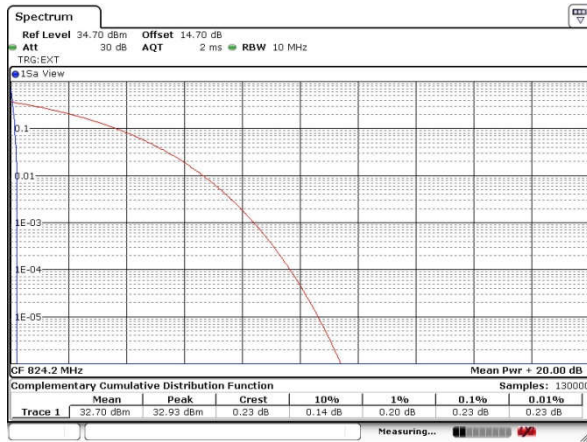
Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.26	3.39	PASS
Middle CH	0.26	3.42	
Highest CH	0.26	3.19	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.99	3.28	PASS
Middle CH	2.96	3.19	
Highest CH	2.87	3.36	



GSM850 (GSM)

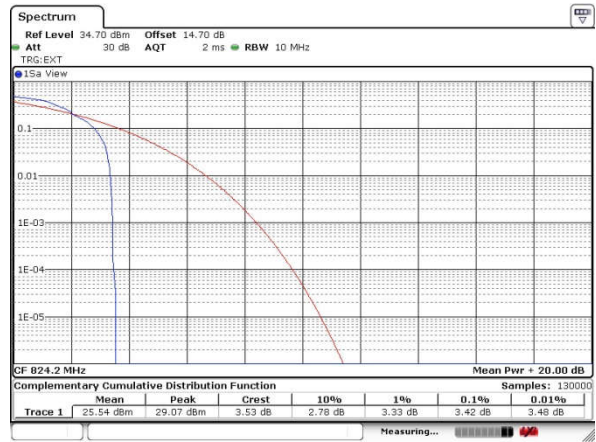
Lowest Channel



Date: 7 JAN 2019 13:30:36

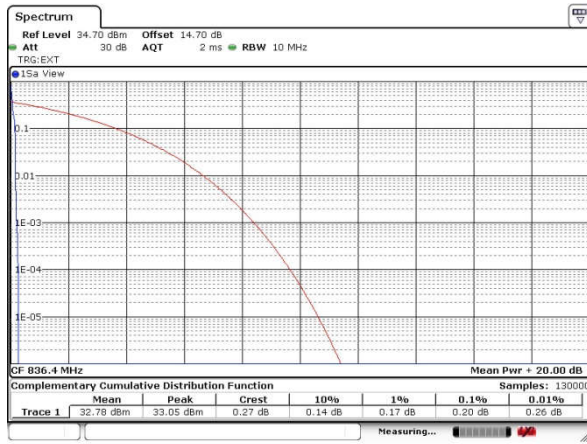
GSM850 (EDGE class 8)

Lowest Channel



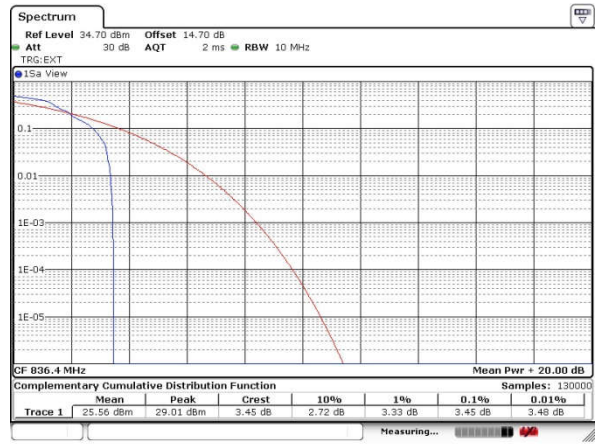
Date: 7 JAN 2019 13:47:45

Middle Channel



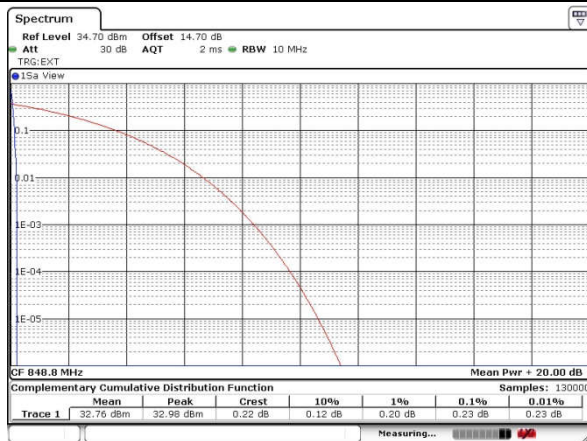
Date: 7 JAN 2019 13:30:50

Middle Channel



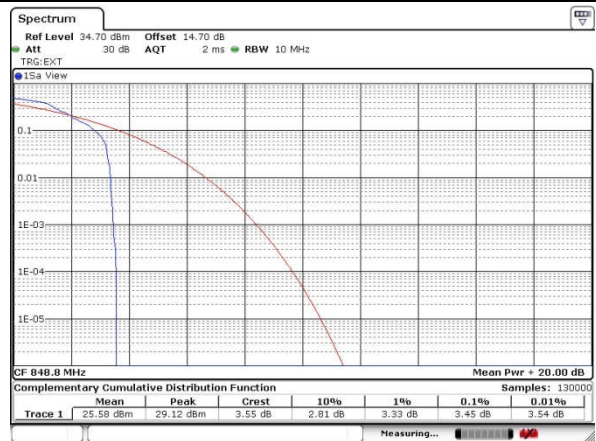
Date: 7 JAN 2019 13:47:53

Highest Channel



Date: 7 JAN 2019 13:31:01

Highest Channel

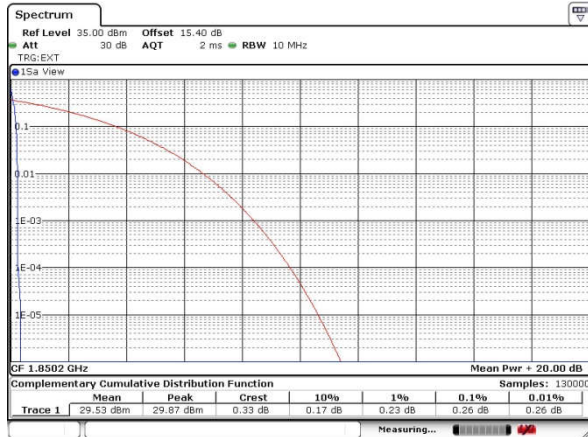


Date: 7 JAN 2019 13:48:07



GSM1900 (GSM)

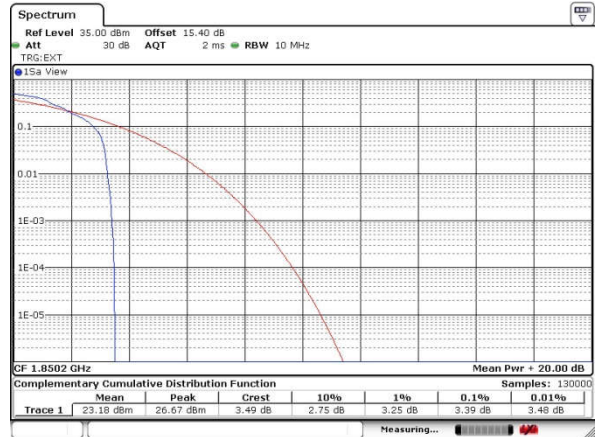
Lowest Channel



Date: 7 JAN 2019 14:13:23

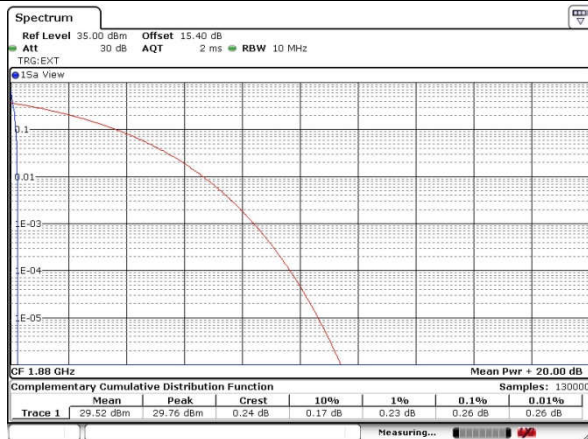
GSM1900 (EDGE class 8)

Lowest Channel



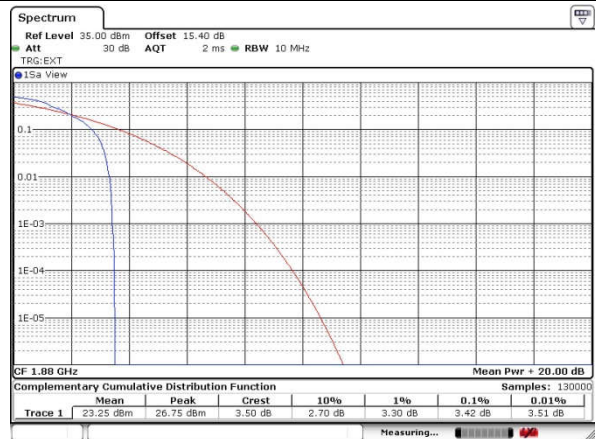
Date: 7 JAN 2019 14:35:58

Middle Channel



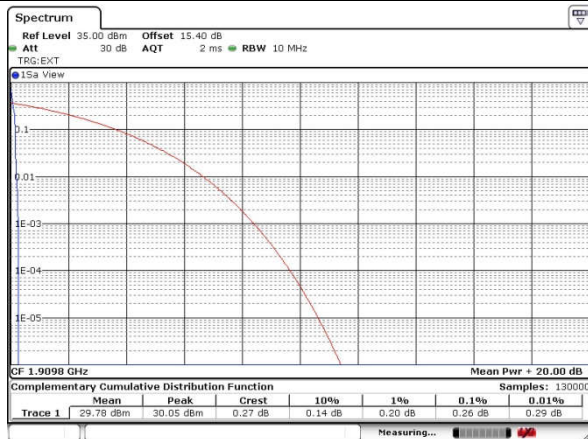
Date: 7 JAN 2019 14:13:31

Middle Channel



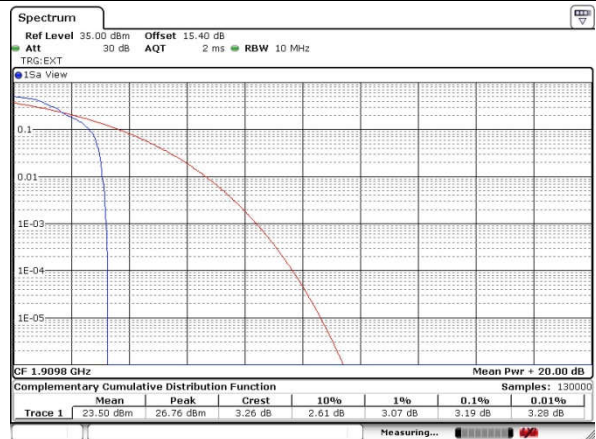
Date: 7 JAN 2019 14:36:12

Highest Channel



Date: 7 JAN 2019 14:13:46

Highest Channel

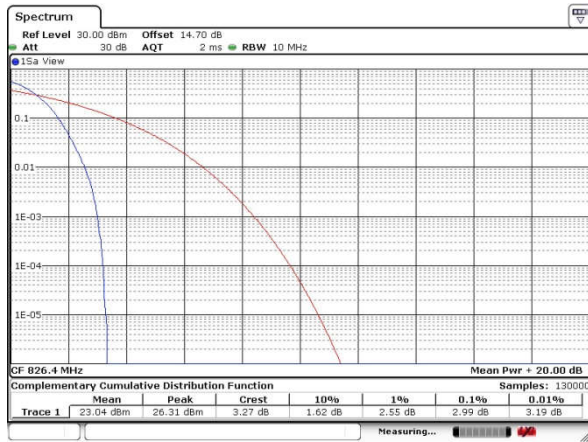


Date: 7 JAN 2019 14:36:21



WCDMA Band V (RMC 12.2Kbps)

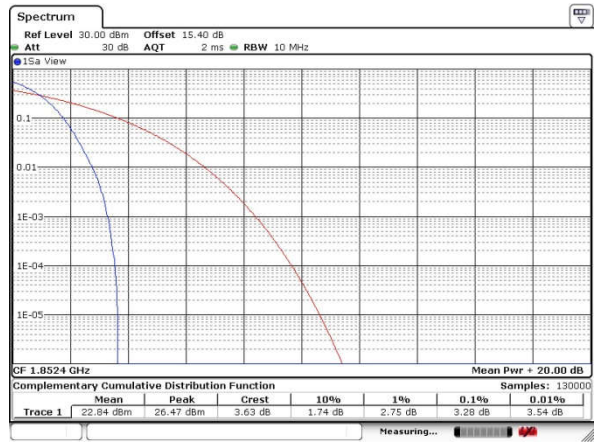
Lowest Channel



Date: 7 JAN 2019 15:18:54

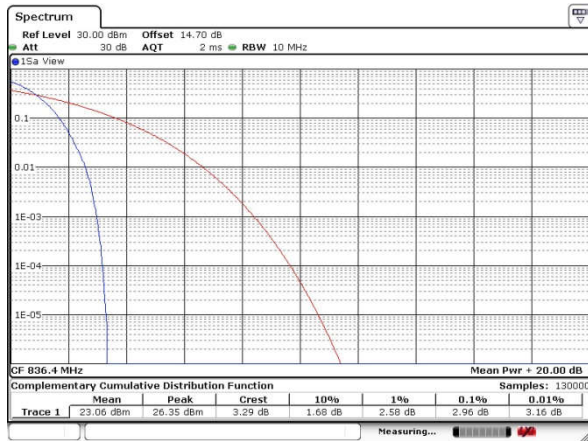
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



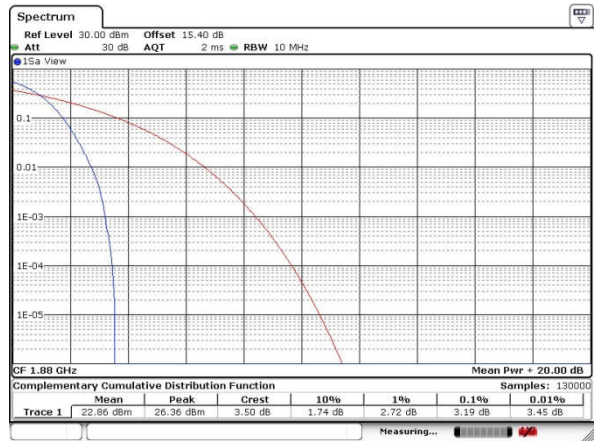
Date: 7 JAN 2019 15:00:46

Middle Channel



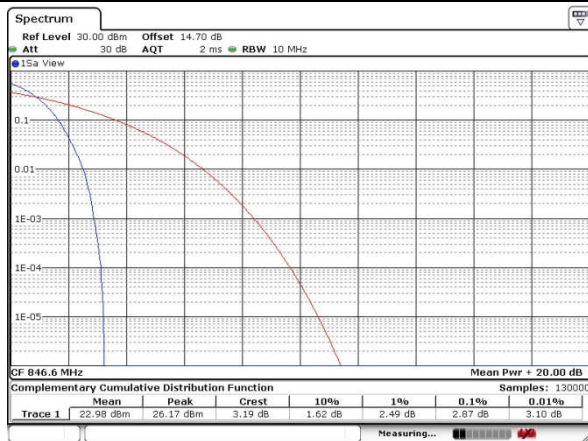
Date: 7 JAN 2019 15:19:01

Middle Channel



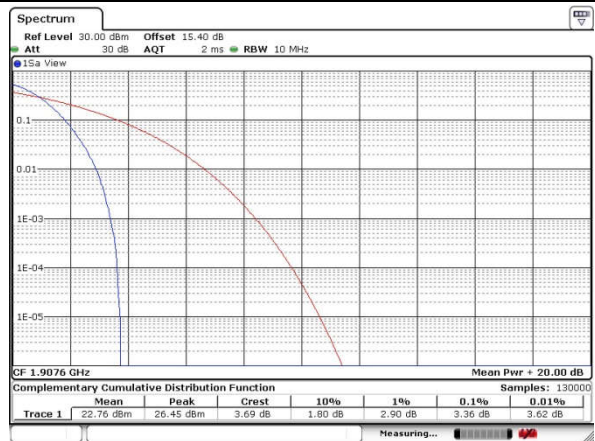
Date: 7 JAN 2019 15:00:55

Highest Channel



Date: 7 JAN 2019 15:19:13

Highest Channel



Date: 7 JAN 2019 15:01:03

**26dB Bandwidth**

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.311	0.311
Middle CH	0.311	0.314
Highest CH	0.313	0.315

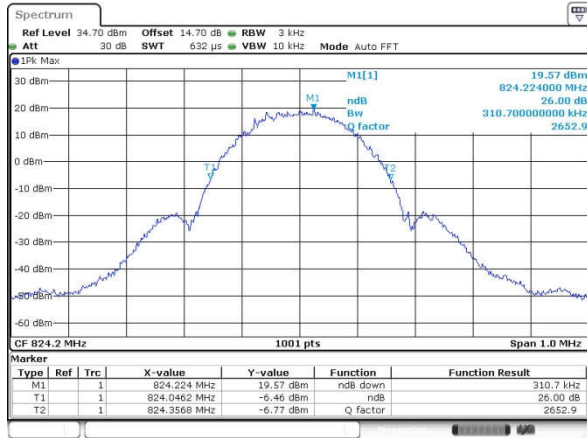
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.306	0.314
Middle CH	0.313	0.314
Highest CH	0.308	0.306

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.705	4.695
Middle CH	4.705	4.695
Highest CH	4.715	4.685



GSM850 (EDGE class 8)

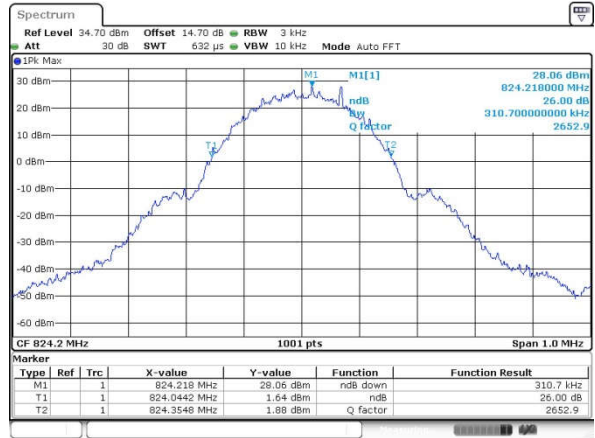
Lowest Channel



Date: 7 JAN 2019 13:33:29

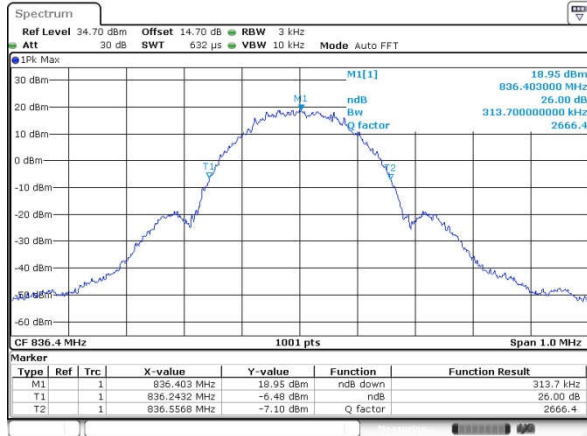
GSM850 (GSM)

Lowest Channel



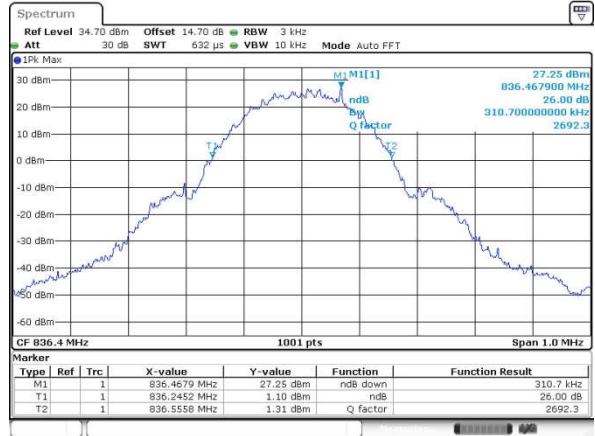
Date: 7 JAN 2019 13:03:46

Middle Channel



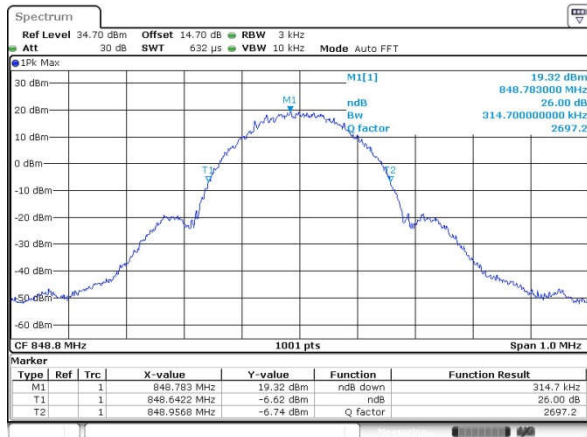
Date: 7 JAN 2019 13:34:00

Middle Channel



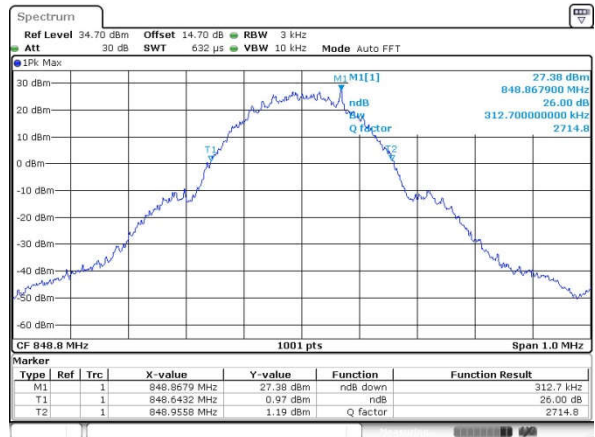
Date: 7 JAN 2019 13:04:20

Highest Channel



Date: 7 JAN 2019 13:34:35

Highest Channel

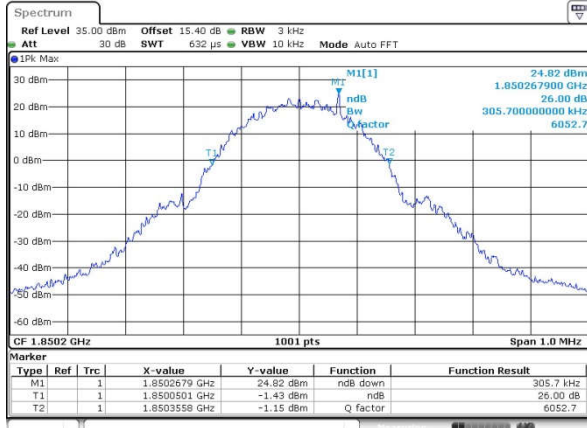


Date: 7 JAN 2019 13:04:56



GSM1900 (GSM)

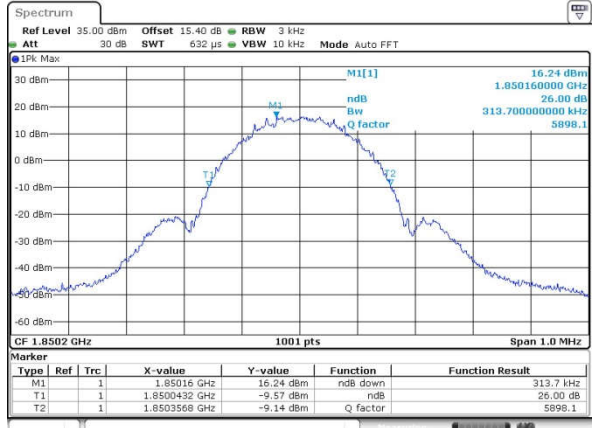
Lowest Channel



Date: 7 JAN 2019 13:52:01

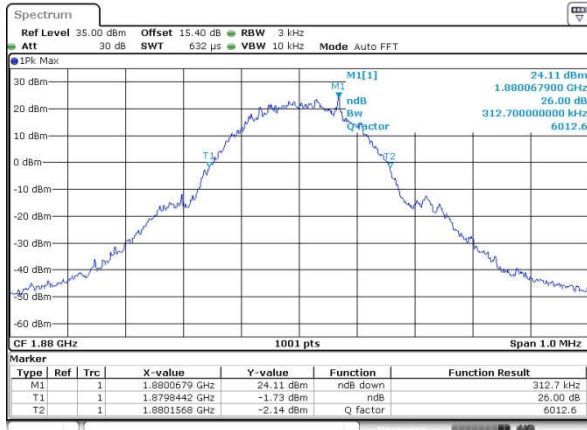
GSM1900 (EDGE class 8)

Lowest Channel



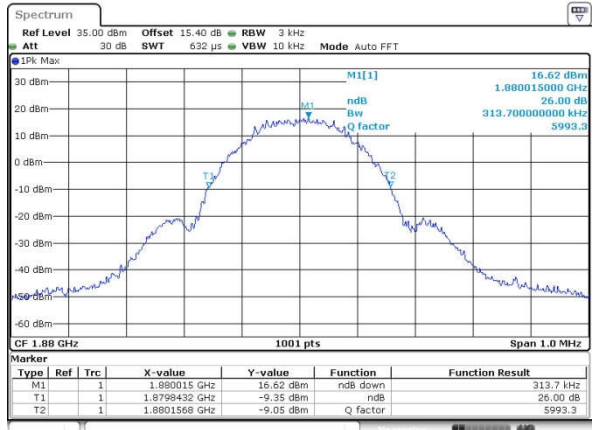
Date: 7 JAN 2019 14:15:33

Middle Channel



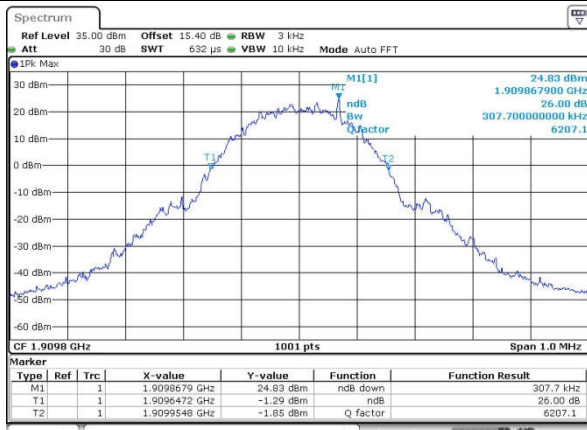
Date: 7 JAN 2019 13:52:33

Middle Channel



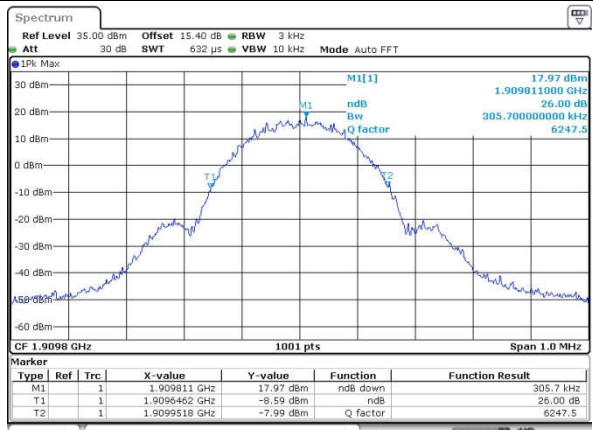
Date: 7 JAN 2019 14:16:17

Highest Channel



Date: 7 JAN 2019 13:53:03

Highest Channel

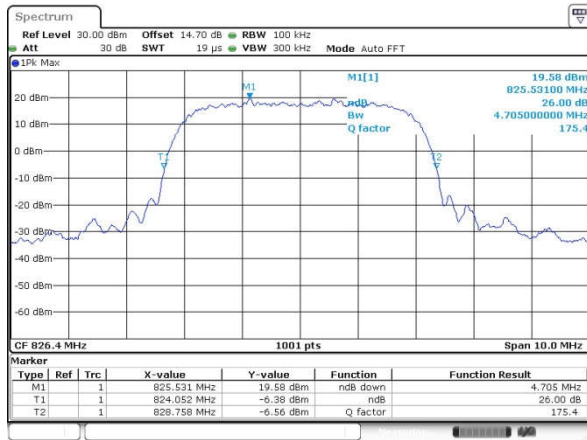


Date: 7 JAN 2019 14:16:48



WCDMA Band V (RMC 12.2Kbps)

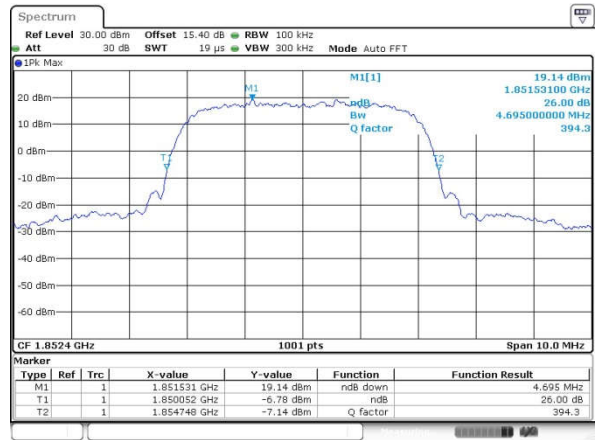
Lowest Channel



Date: 7 JAN 2019 15:02:32

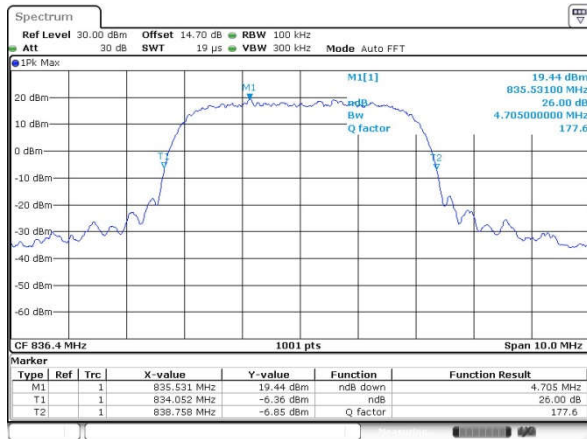
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



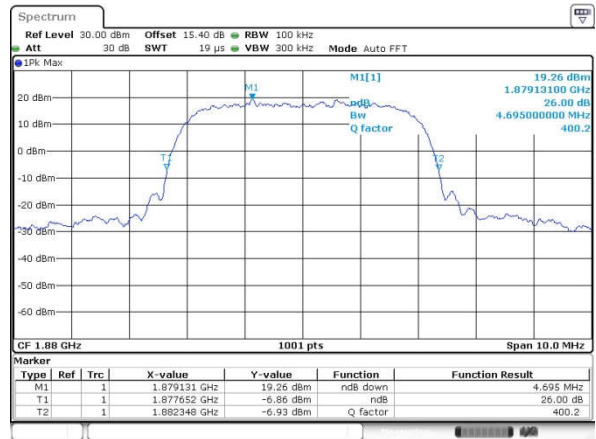
Date: 7 JAN 2019 14:40:48

Middle Channel



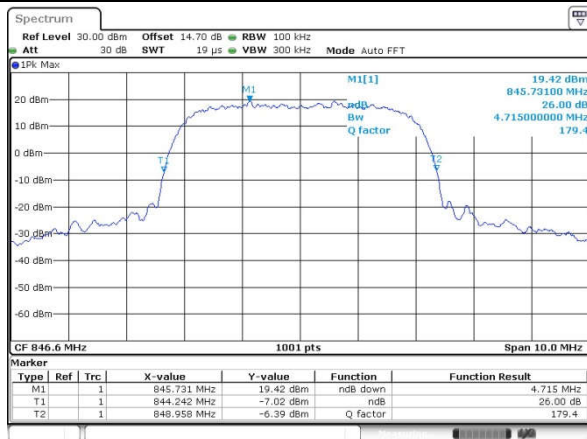
Date: 7 JAN 2019 15:03:09

Middle Channel



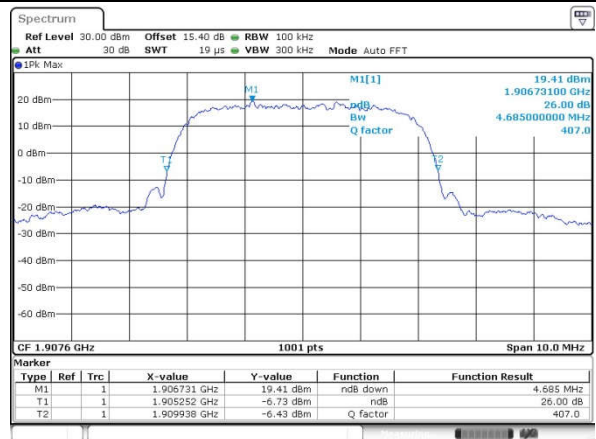
Date: 7 JAN 2019 14:41:22

Highest Channel



Date: 7 JAN 2019 15:03:42

Highest Channel



Date: 7 JAN 2019 14:42:00

**Occupied Bandwidth**

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.243	0.242
Middle CH	0.242	0.246
Highest CH	0.242	0.241

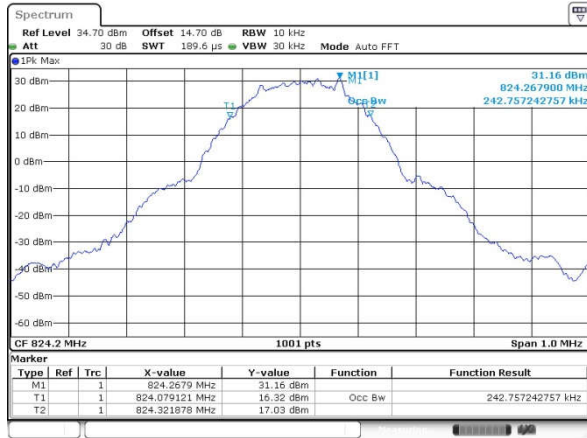
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.240	0.244
Middle CH	0.242	0.242
Highest CH	0.242	0.246

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.106	4.106
Middle CH	4.106	4.106
Highest CH	4.106	4.106



GSM850 (GSM)

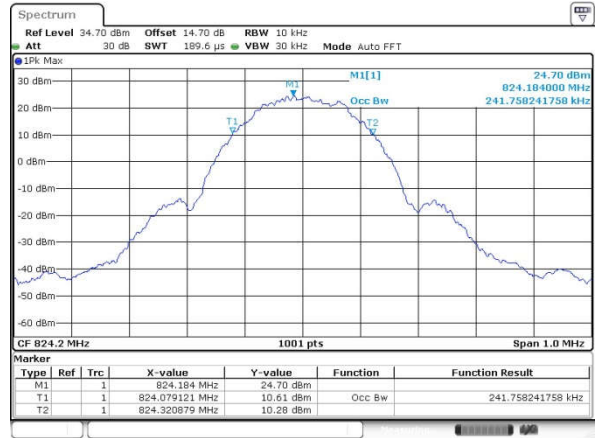
Lowest Channel



Date: 7 JAN 2019 13:08:16

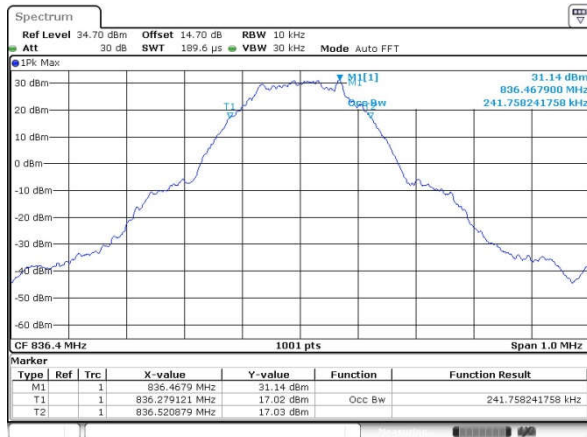
GSM850 (EDGE class 8)

Lowest Channel



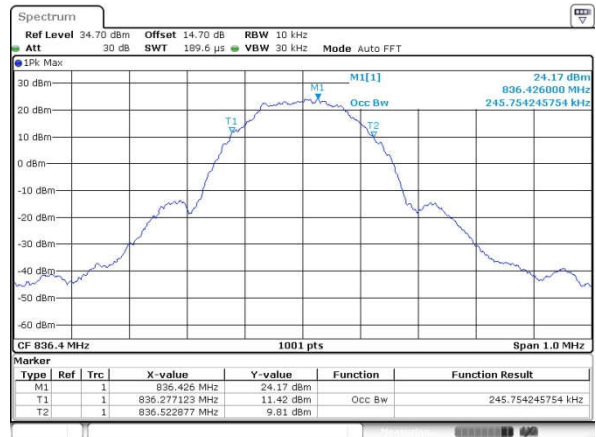
Date: 7 JAN 2019 13:35:10

Middle Channel



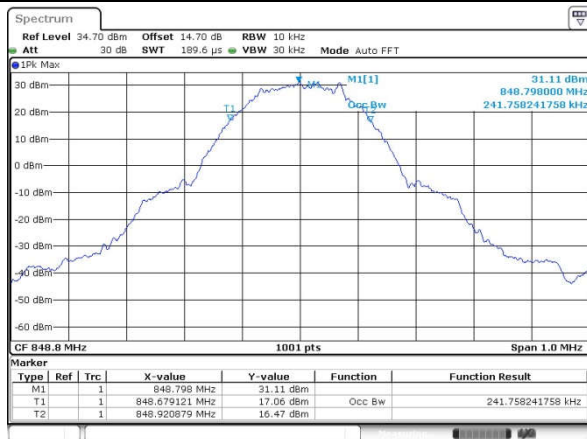
Date: 7 JAN 2019 13:09:04

Middle Channel



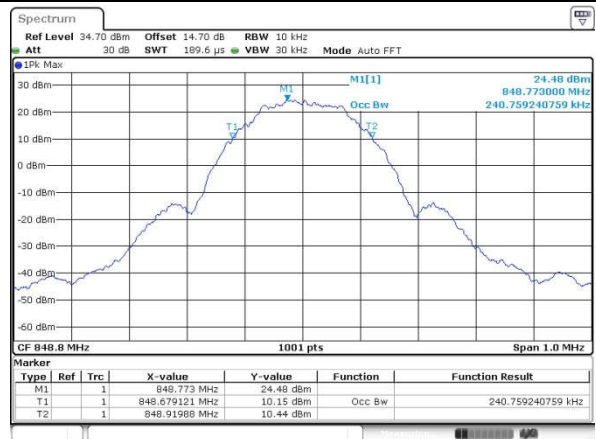
Date: 7 JAN 2019 13:35:54

Highest Channel



Date: 7 JAN 2019 13:14:23

Highest Channel

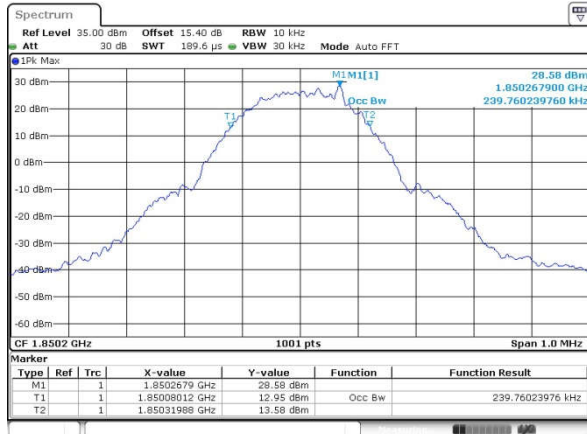


Date: 7 JAN 2019 13:36:32



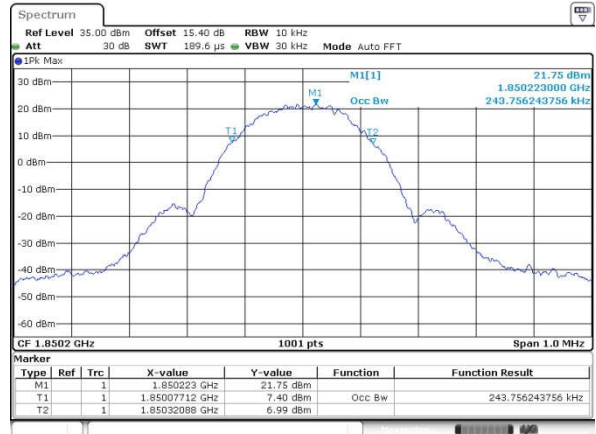
GSM1900 (GSM)

Lowest Channel

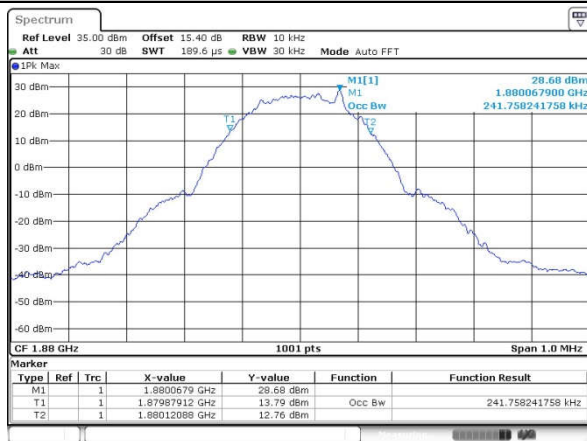


GSM1900 (EDGE class 8)

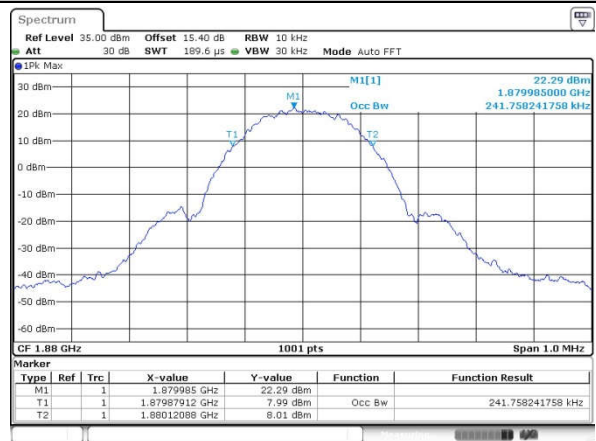
Lowest Channel



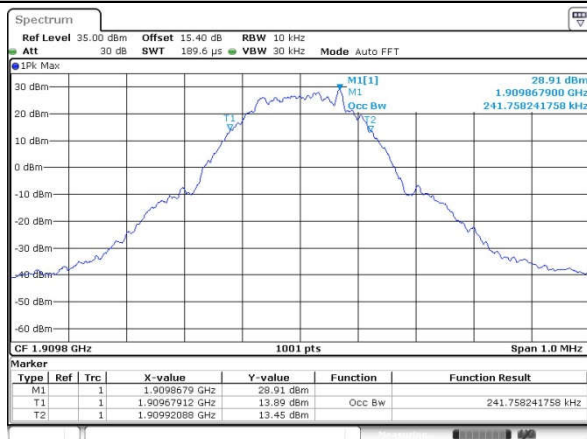
Middle Channel



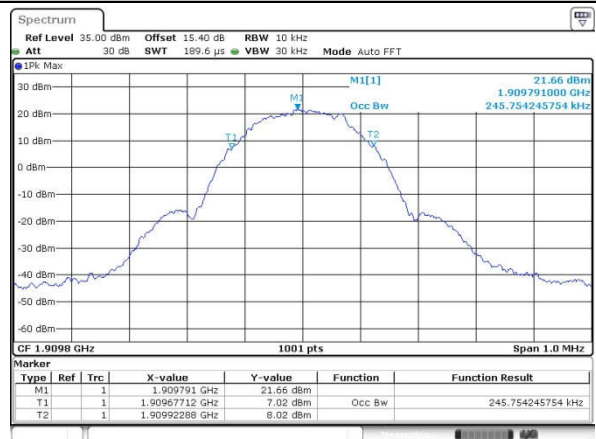
Middle Channel



Highest Channel



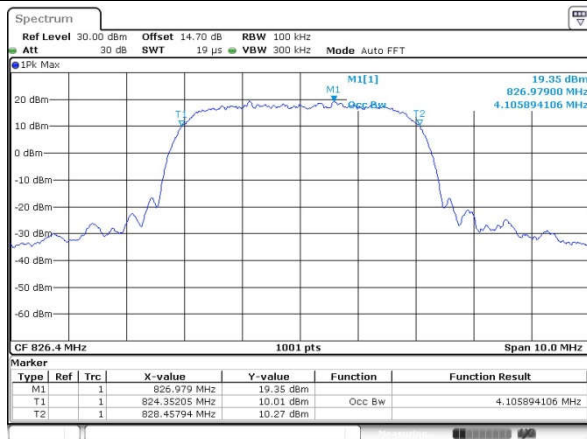
Highest Channel





WCDMA Band V (RMC 12.2Kbps)

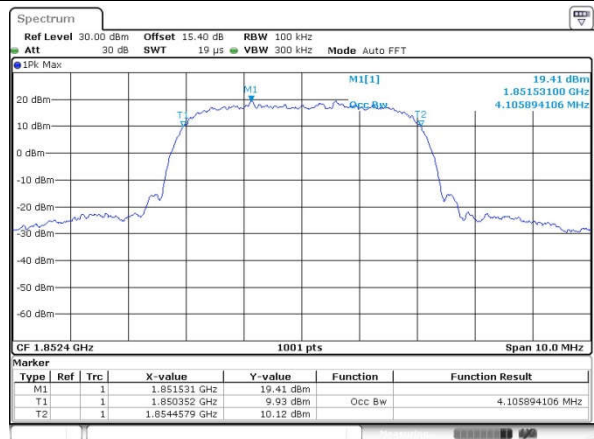
Lowest Channel



Date: 7 JAN 2019 15:06:19

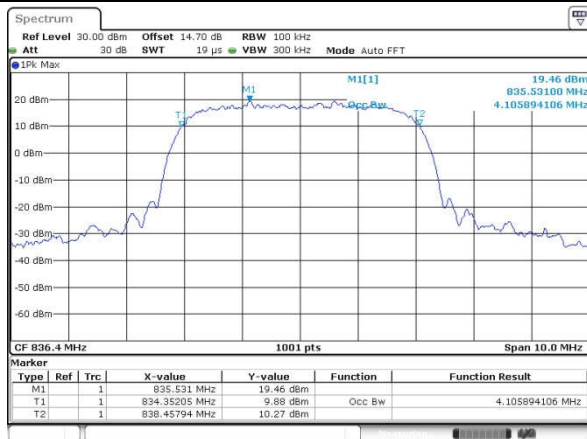
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



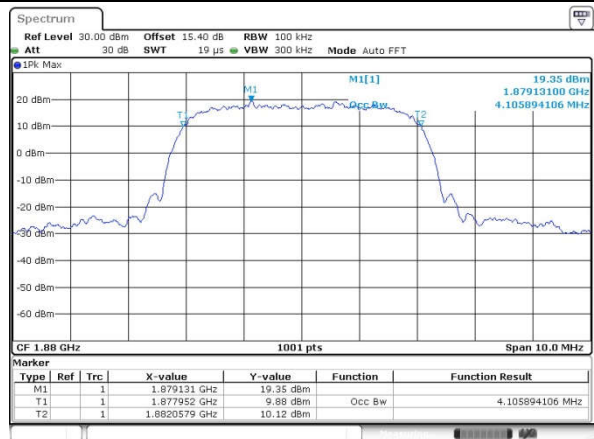
Date: 7 JAN 2019 14:44:44

Middle Channel



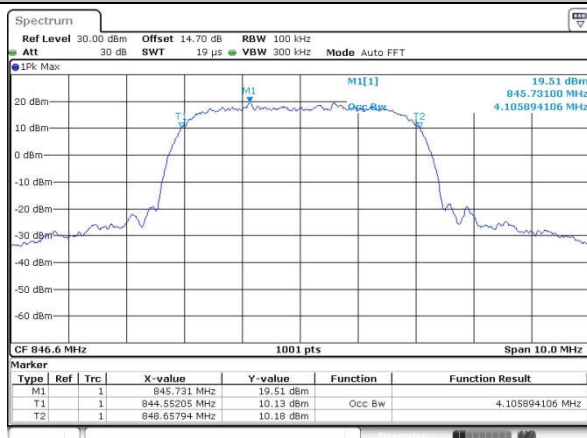
Date: 7 JAN 2019 15:07:02

Middle Channel



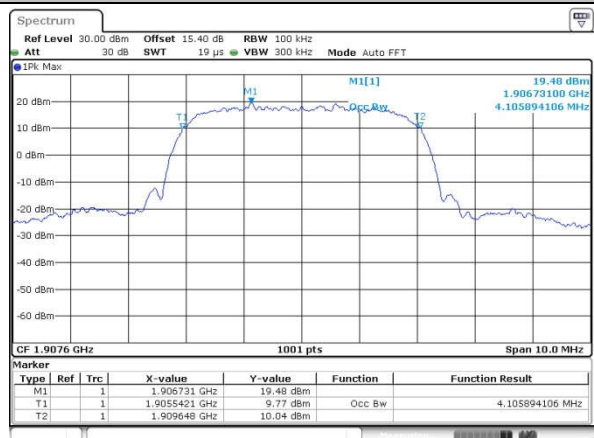
Date: 7 JAN 2019 14:45:17

Highest Channel

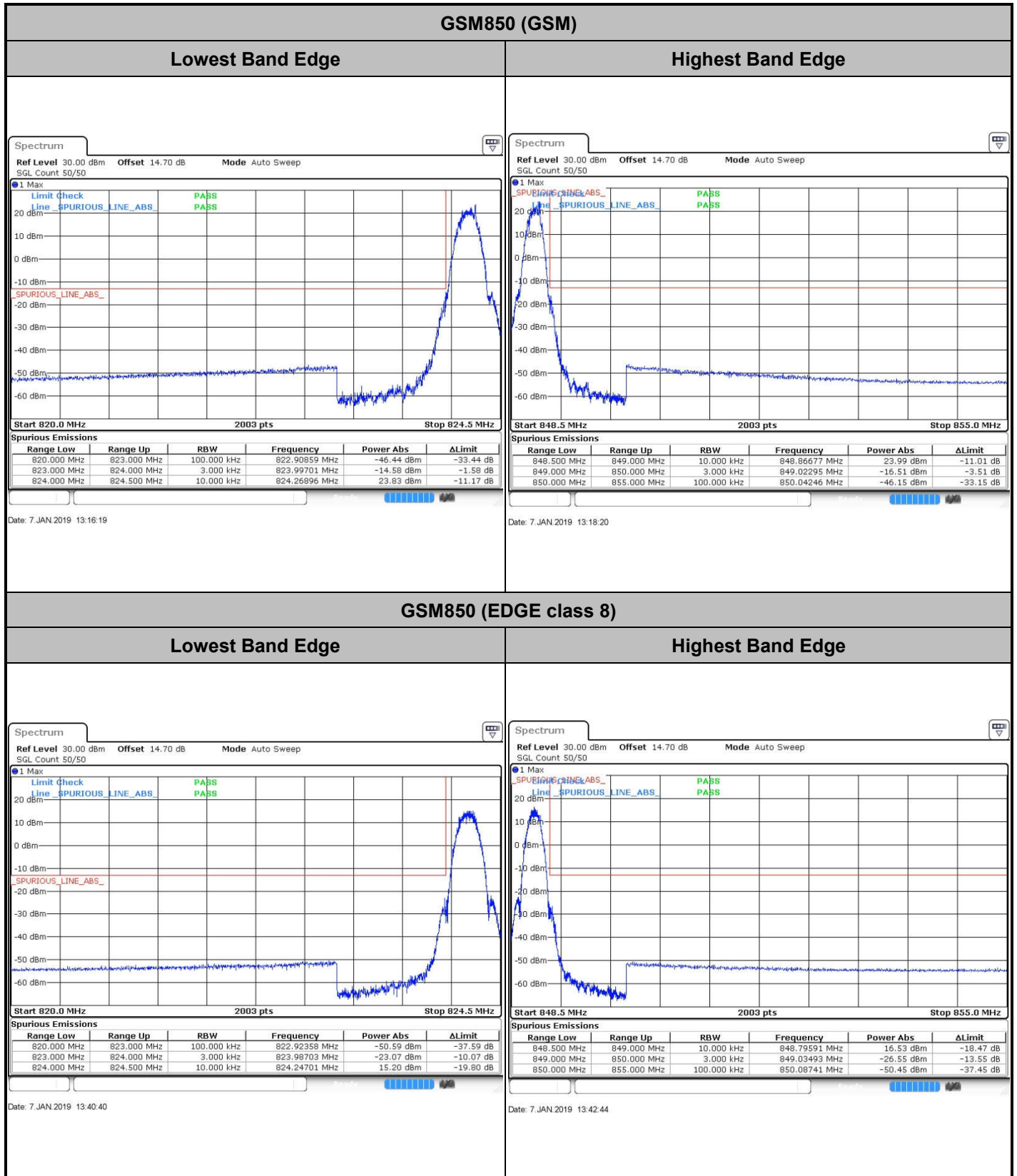


Date: 7 JAN 2019 15:07:33

Highest Channel



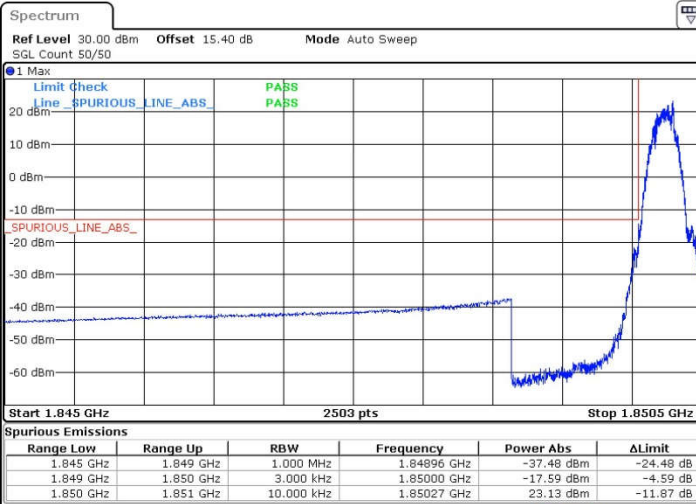
Date: 7 JAN 2019 14:45:47

**Conducted Band Edge**

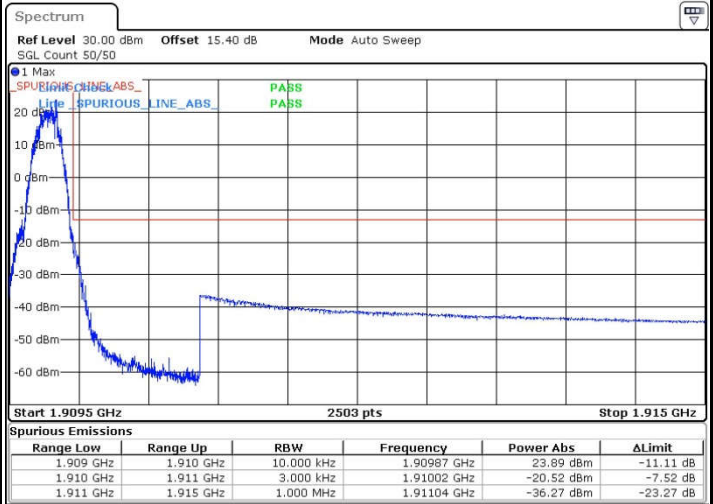


GSM1900 (GSM)

Lowest Band Edge

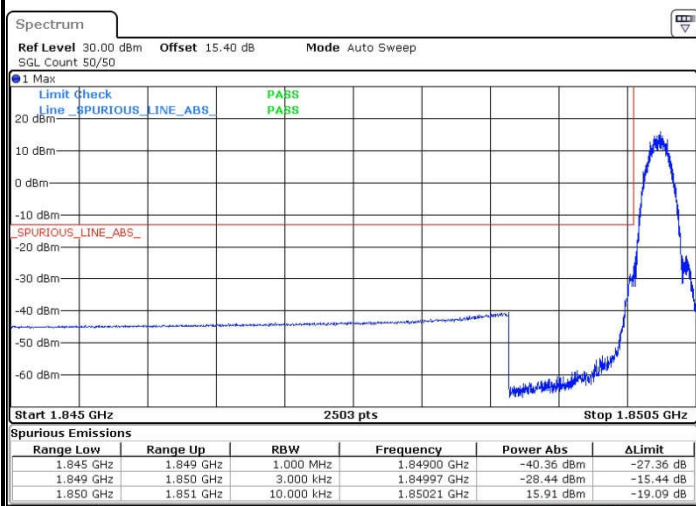


Highest Band Edge

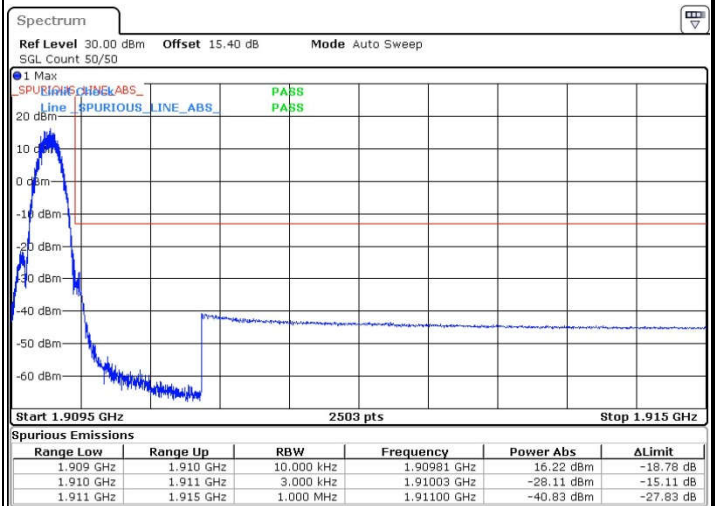


GSM1900 (EDGE class 8)

Lowest Band Edge



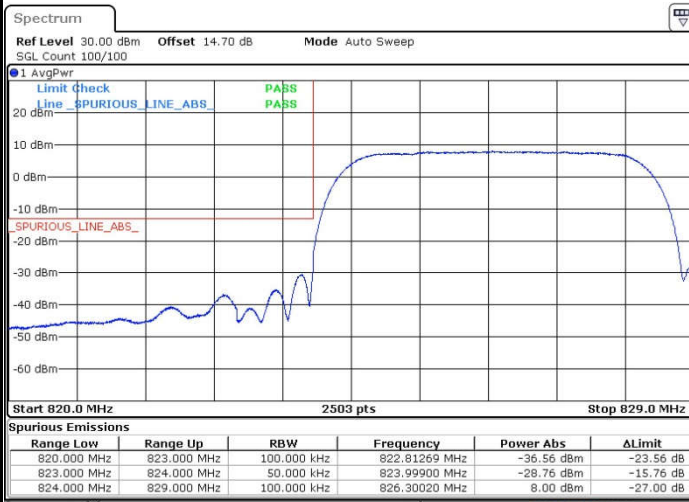
Highest Band Edge



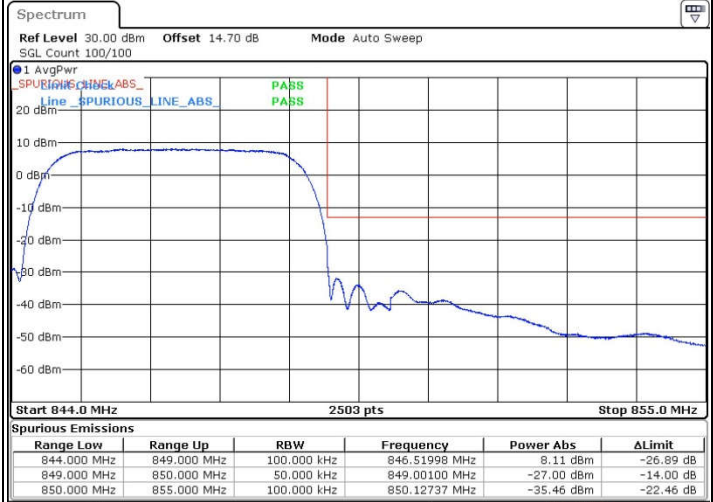


WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

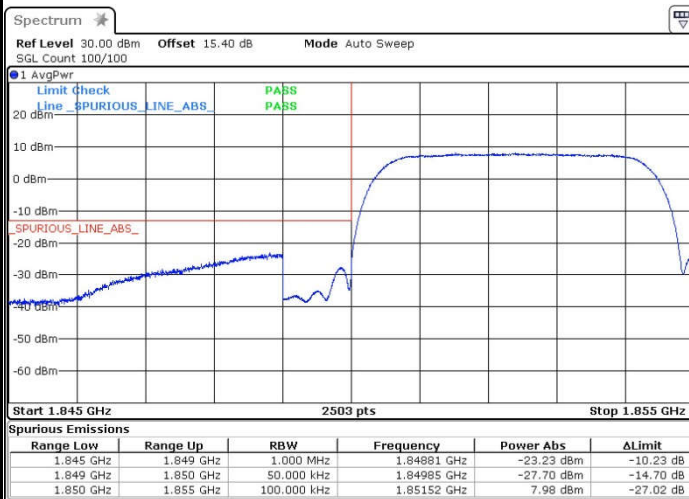


Highest Band Edge

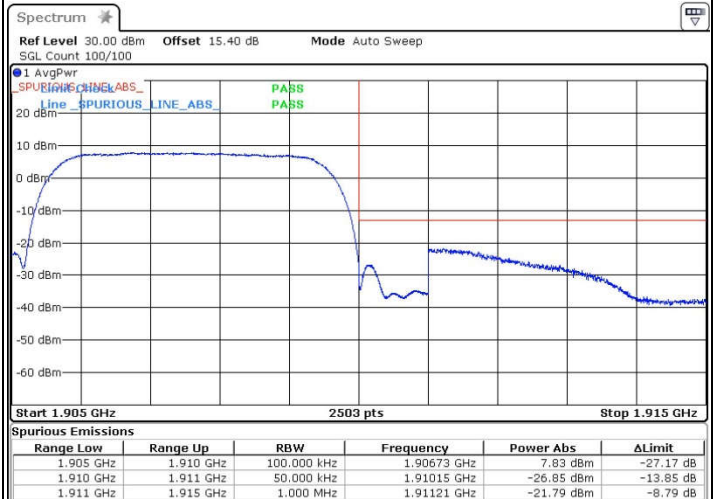


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

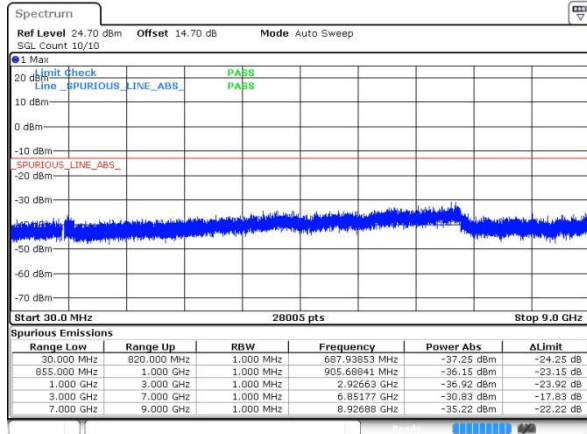




Conducted Spurious Emission

GSM850 (GSM)

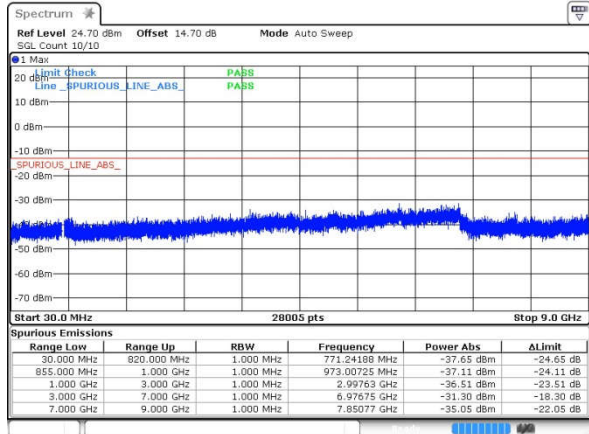
Lowest Channel



Date: 7 JAN 2019 13:19:47

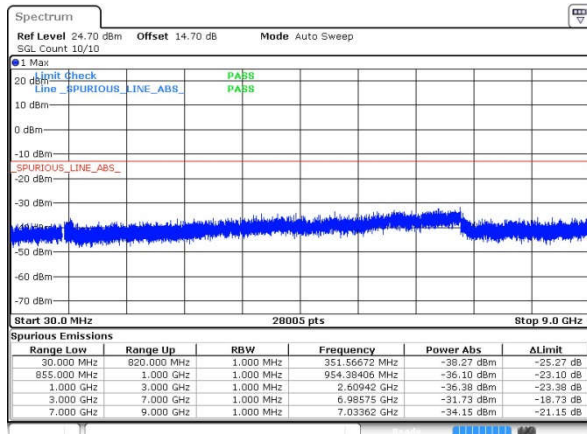
GSM850 (EDGE class 8)

Lowest Channel



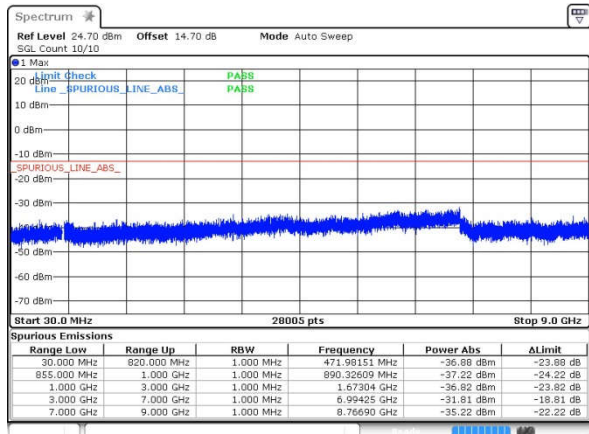
Date: 7 JAN 2019 13:44:09

Middle Channel



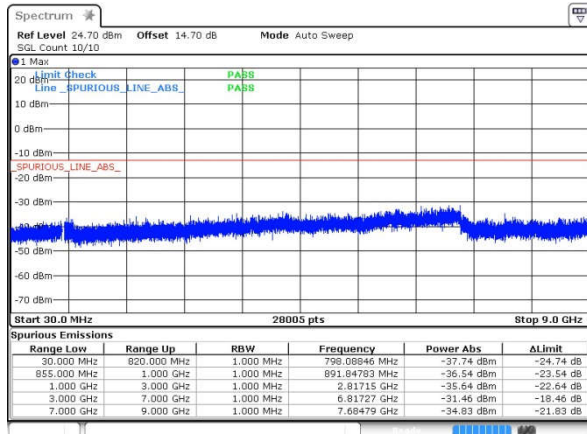
Date: 7 JAN 2019 13:21:25

Middle Channel



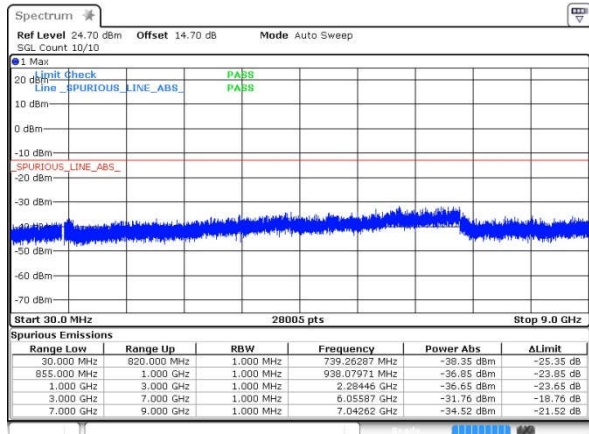
Date: 7 JAN 2019 13:45:28

Highest Channel



Date: 7 JAN 2019 13:22:44

Highest Channel

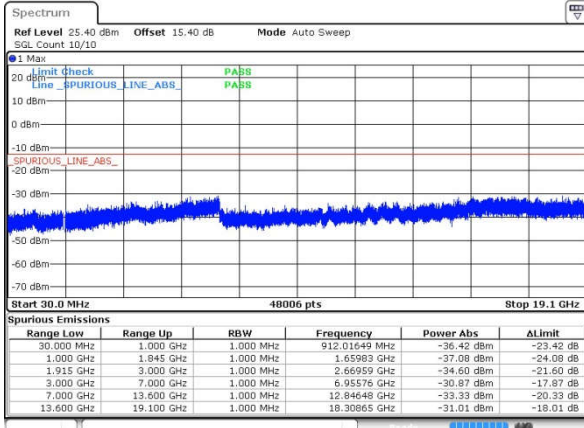


Date: 7 JAN 2019 13:46:49



GSM1900 (GSM)

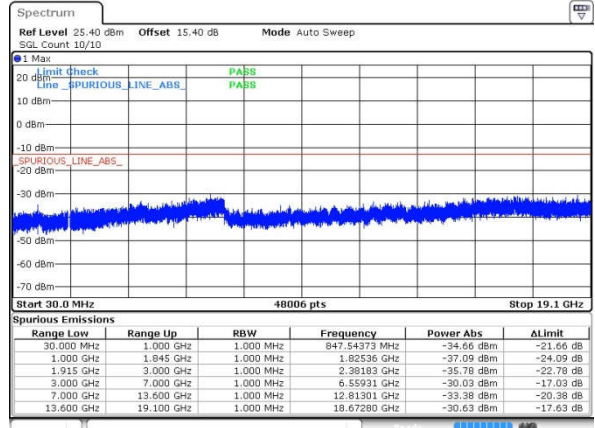
Lowest Channel



Date: 7 JAN 2019 14:08:24

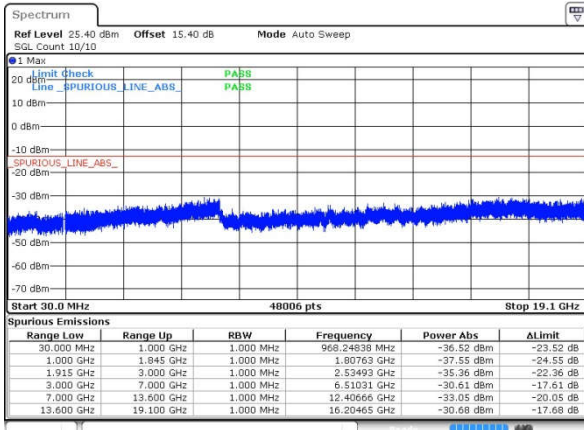
GSM1900 (EDGE class 8)

Lowest Channel



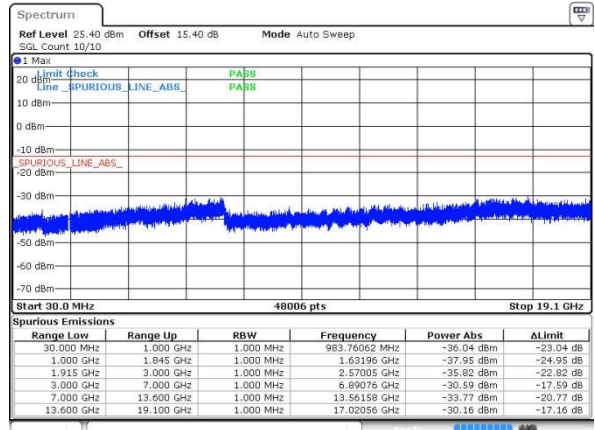
Date: 7 JAN 2019 14:30:32

Middle Channel



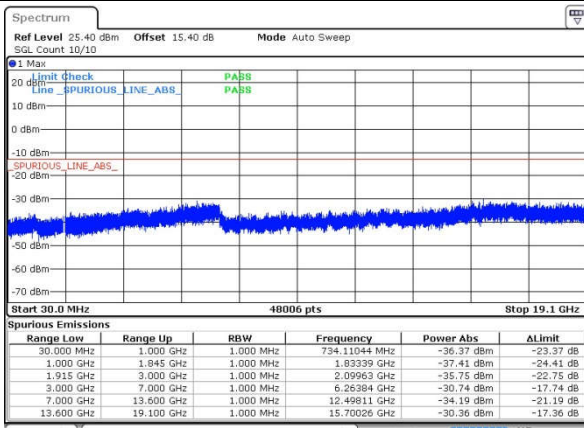
Date: 7 JAN 2019 14:10:33

Middle Channel



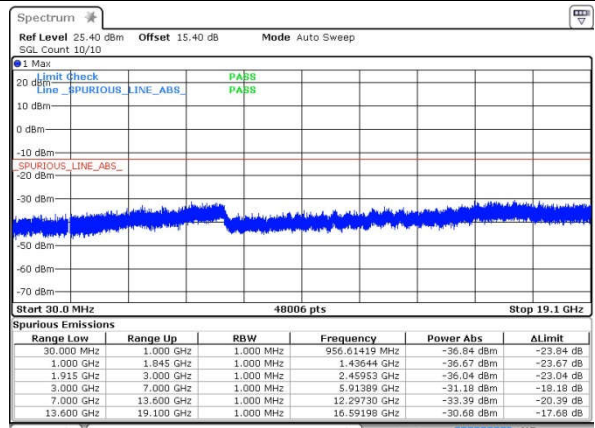
Date: 7 JAN 2019 14:32:41

Highest Channel



Date: 7 JAN 2019 14:12:21

Highest Channel

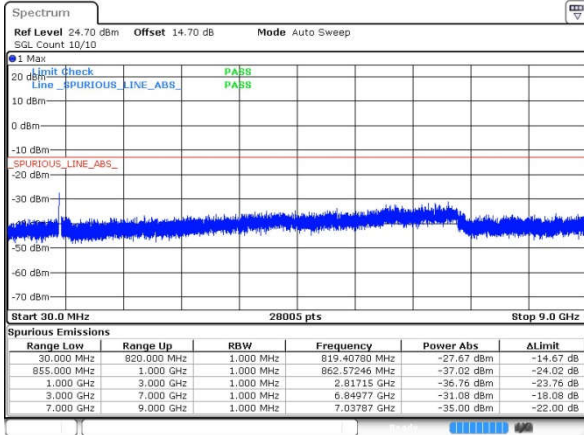


Date: 7 JAN 2019 14:35:10



WCDMA Band V (RMC 12.2Kbps)

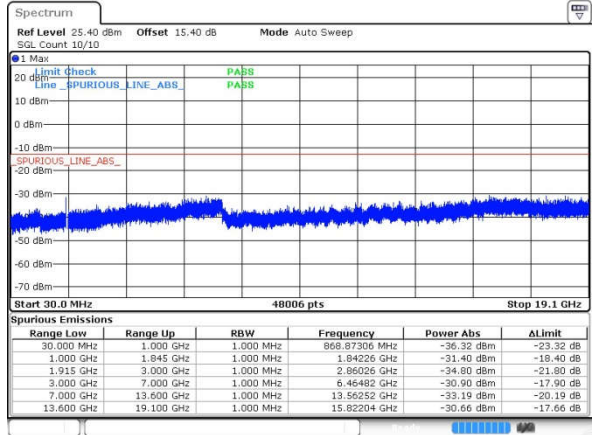
Lowest Channel



Date: 7 JAN 2019 15:15:23

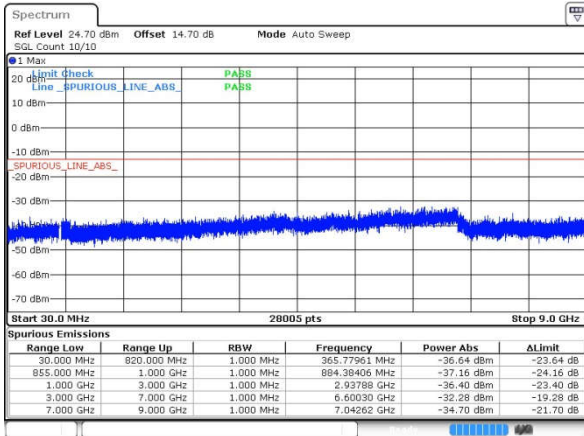
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



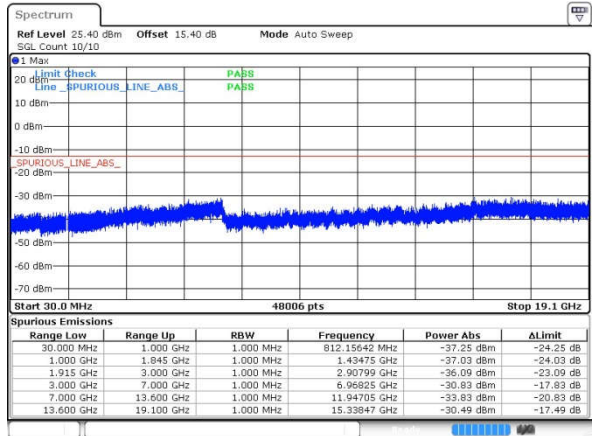
Date: 7 JAN 2019 14:57:06

Middle Channel



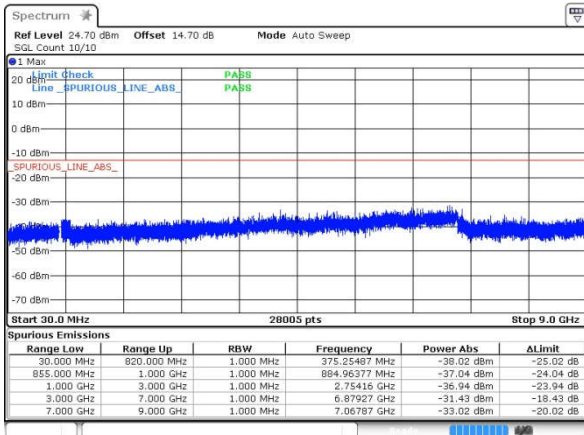
Date: 7 JAN 2019 15:16:43

Middle Channel



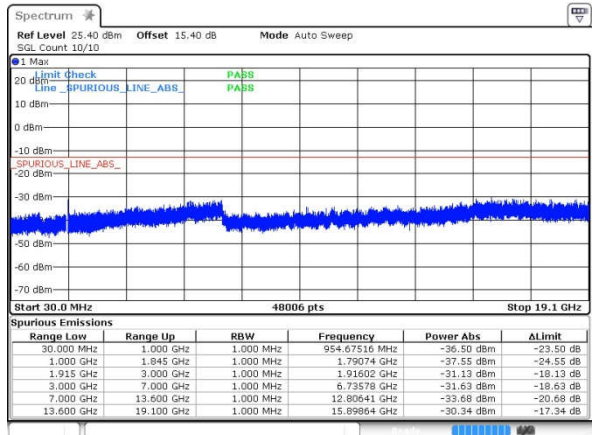
Date: 7 JAN 2019 14:58:30

Highest Channel



Date: 7 JAN 2019 15:18:08

Highest Channel



Date: 7 JAN 2019 14:59:50

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0048	0.0060	PASS
40	Normal Voltage	0.0526	0.0167	
30	Normal Voltage	0.0120	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0574	0.0335	
0	Normal Voltage	0.0191	0.0538	
-10	Normal Voltage	0.0084	0.0466	
-20	Normal Voltage	0.0143	0.0167	
-30	Normal Voltage	0.0108	0.0478	
20	Maximum Voltage	0.0466	0.0514	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0395	0.0395	

Note: Normal Voltage = 3.85V. : Battery End Point (BEP) =3.5V. : Maximum Voltage =4.4V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0005	PASS
40	Normal Voltage	0.0016	0.0016	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0255	
0	Normal Voltage	0.0074	0.0186	
-10	Normal Voltage	0.0160	0.0011	
-20	Normal Voltage	0.0218	0.0037	
-30	Normal Voltage	0.0005	0.0213	
20	Maximum Voltage	0.0053	0.0160	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0133	0.0011	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0323	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage = 3.85V. : Battery End Point (BEP) =3.5V. : Maximum Voltage =4.4V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0186	PASS
40	Normal Voltage	0.0128	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0154	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-51.64	-13	-38.64	-52.85	2.32	5.68	H
	2510	-60.87	-13	-47.87	-61.50	3.02	5.80	H
	3345	-58.90	-13	-45.90	-61.36	3.27	7.88	H
	1672	-46.52	-13	-33.52	-47.73	2.32	5.68	V
	2510	-60.81	-13	-47.81	-61.44	3.02	5.80	V
	3345	-61.36	-13	-48.36	-63.82	3.27	7.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE class 8)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-65.31	-13	-52.31	-66.52	2.319	5.68	H
	2510	-61.96	-13	-48.96	-62.59	3.02	5.80	H
	3345	-63.97	-13	-50.97	-66.43	3.27	7.88	H
	4182	-58.79	-13	-45.79	-62.17	3.72	9.25	H
	1672	-64.23	-13	-51.23	-65.44	2.32	5.68	V
	2508	-64.57	-13	-51.57	-65.20	3.02	5.80	V
	3345	-63.84	-13	-50.84	-66.30	3.27	7.88	V
	4182	-61.27	-13	-48.27	-64.65	3.72	9.25	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (GSM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-46.36	-13	-33.36	-51.23	3.55	8.42	H
	5640	-42.36	-13	-29.36	-48.70	4.34	10.68	H
	7521	-54.60	-13	-41.60	-61.40	5.14	11.94	H
	3759	-45.28	-13	-32.28	-50.15	3.55	8.42	V
	5640	-47.46	-13	-34.46	-53.80	4.34	10.68	V
	7521	-54.44	-13	-41.44	-61.24	5.14	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE class 8)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-55.12	-13	-42.12	-59.99	3.55	8.42	H
	5640	-55.05	-13	-42.05	-61.39	4.34	10.68	H
	7521	-54.94	-13	-41.94	-61.74	5.14	11.94	H
	3759	-55.08	-13	-42.08	-59.95	3.55	8.42	V
	5640	-49.07	-13	-36.07	-55.41	4.34	10.68	V
	7521	-54.68	-13	-41.68	-61.48	5.14	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-67.84	-13	-54.84	-69.05	2.319	5.68	H
	2510	-64.37	-13	-51.37	-65.00	3.02	5.80	H
	3345	-64.03	-13	-51.03	-66.49	3.27	7.88	H
	1672	-66.98	-13	-53.98	-68.19	2.32	5.68	V
	2510	-64.82	-13	-51.82	-65.45	3.02	5.80	V
	3345	-64.31	-13	-51.31	-66.77	3.27	7.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-52.61	-13	-39.61	-57.48	3.55	8.42	H
	5640	-58.75	-13	-45.75	-65.09	4.34	10.68	H
	7521	-54.94	-13	-41.94	-61.74	5.14	11.94	H
	3759	-54.17	-13	-41.17	-59.04	3.55	8.42	V
	5640	-55.71	-13	-42.71	-62.05	4.34	10.68	V
	7521	-54.87	-13	-41.87	-61.67	5.14	11.94	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.